ADDENDUM No. 2
Bid No. 10-11/34 Laney Tower Modernization

This addendum supersedes items of the original contract documents wherein it is inconsistent with it. All other conditions remain unchanged. The following changes, modifications, corrections, additions or clarifications shall apply to the contract documents and shall be made a part of and subject to all of the requirements thereof as if originally specified or shown. It is the responsibility of the bidder to review the list of attachments to ensure that the addendum is full and complete. This Addendum modifies the original Bid Documents for the above Bid. Acknowledge receipt of this addendum in the space provided on the BID FORM. Failure to do so may subject Bidder to disqualification.

List of attachments:

<table>
<thead>
<tr>
<th>Description</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 pages</td>
<td></td>
</tr>
</tbody>
</table>

A. The original bid documents are updated by the information as follows:

Item 1: Updated Bid Form (3 pages)

Item 2: Liquidated damages are set at $2,000 per day

Item 3: Updated Bid Schedule:
- RFIs due by June 29, 2011 at 2 PM (All RFIs are to be sent via email to Benga Olayomi – olayomi@consolidatedcm.com – with a cc: to Trent Tornabene – ttornabene@peralta.edu).
- Addendum #3 will be issued on July 7, 2011
- Bids due on July 13, 2011 at 2 PM

B. The original plans and specifications are updated by the information as follows:

Item 4: Project Manual - Table of Contents (4 pages)

Item 5: Drawing Index - YHLA (4 pages)

Item 6: Summary of Changes to YHLA Drawings (9 pages)

Item 7: Updated Architectural Drawings – YHLA (38 pages)

Item 8: Electrical and Fire Alarm Drawings – YHLA

Item 9: Updated Specifications from YHLA.
Item 10: Summary of Changes to Chevron Drawings (2 pages)

Item 11: Updated Drawings from Chevron Energy Systems

Item 12: Updated Hazmat Report, 09/03/09 (96 pages)

Item 13: Hazmat Environmental Plans, 03/24/09 (18 pages)

All other terms and conditions of Bid No.: 10-11/34 to remain the same.
The undersigned having carefully examined the location of the proposed work, the local conditions of the place where the work is to be done, the Invitation for Bid, the General Conditions and Instructions to Bidders, the Peralta Community College District (District) Contract, the Specifications and all of the contract documents for this project, and accurately completed the Vendor’s Questionnaire, proposes to perform the contract, including all of its component parts, and to furnish any and all required labor, materials, equipment, insurance, permit, bonding, transportation and services required for the construction of the project in strict conformity with the plans and specifications prepared, including any Addenda, within the time specified for the lump sum price of (including all taxes):

**Total Bid Price**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Base Bid Items</td>
<td></td>
</tr>
<tr>
<td>All Allowances (see page 3 of this bid form)</td>
<td>$175,000</td>
</tr>
<tr>
<td>Deductive alternate #1: Delete the cost to provide wired glass portholes at new and existing doors between the corridors on floors 7 &amp; 8 and occupied rooms per the door schedule on Sheet A7.0.</td>
<td></td>
</tr>
<tr>
<td>Deductive Alternate #2: Delete the water filtration system for the drinking fountains.</td>
<td></td>
</tr>
<tr>
<td>Deductive Alternate #3: Delete the rubber stair treads and landing floors.</td>
<td></td>
</tr>
</tbody>
</table>

**The lowest bid shall be the lowest bid price on the base contract without consideration of the prices on the additive or deductive items.**
Agreement Terms

1. If awarded the contract, the undersigned hereby agrees to sign said contract and furnish the necessary Payment Bond, Performance Bond, and Certificates of Insurance within 10 calendar days after the Notice of the Award of this contract and agrees to commence construction within 10 calendar days after the Notice to Proceed is issued by the District.

2. The undersigned has checked carefully all the above figures and understands that the District will not be responsible for any errors or omissions on the part of the undersigned in making up this bid.

3. Peralta Community College District reserves the right to reject any or all bids, to waive any irregularities or informalities not affected by law, to evaluate the bids submitted and to award the contract according to the proposal which best serves the interests of the District.

Agreement Terms Continued

4. All pages of this Bid Form must be completed and signed in ink. The bid will be awarded to the lowest responsive, responsible bidder.

Bid Bond

Each bid shall be accompanied by a cashier's check payable to the Peralta Community College District, or a bidder's bond executed by an admitted surety insurer, licensed to do business in the State of California as a surety, made payable to the Peralta Community College District in an amount not less than ten percent (10%) of the maximum amount of the bid. The check or bid bond shall be given as a guarantee that the bidder to whom the contract is awarded shall execute the contract documents and shall provide the required payment and performance bonds as specified therein within ten (10) days after the notification of the award of the contract.

Amount – Bidders must enclose an amount of not less than 10 percent of the entire bid as either:

_____ Cashier's Check: Check Number: __________________________

Issuing Bank: ___________________________________

Amount: $ __________________________

_____ Bidder’s Bond: Surety Company: __________________________
Addendum Acknowledgement

The following addendum(s) are acknowledged in this bid: _________________________

Bidder Information and Signature

Contractor Name: ____________________  Title: ___________________________

Contact Person (print name):________________________________________________________

Address: _______________________________________________________________

Telephone:__________________________  Fax: ____________________________

Contractor License #: _________________  Expiration Date: __________________

Authorized Signature: ________________________________ Date: ______________

ALLOWANCES

All allowances shall be used at the discretion of the District. Any allowances not approved through a formal change order procedure shall be credited back to the District as a deductive change order. Contractor shall be aware that all allowances are for work not included in the base bid work as called out, specified or shown on the contract documents.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Millwork/carpentry</td>
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</tr>
<tr>
<td>2</td>
<td>Data/electrical</td>
<td>50,000</td>
</tr>
<tr>
<td>3</td>
<td>8th floor suite</td>
<td>40,000</td>
</tr>
<tr>
<td>4</td>
<td>2nd floor office suite</td>
<td>35,000</td>
</tr>
</tbody>
</table>

$ 175,000

(place amt. on line 2 of bid form)

Contractor Name:___________________________  Initials_________
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 4: Project Manual - Table of Contents (4 pages)
PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

00 01 10

TABLE OF CONTENTS

Section 00 01 01  Project Title Page
Section 00 01 10  Table of Contents

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

Invitation to Bid

Instruction to Bidders Attachment 1
Prevailing Wage and Project Labor Agreement Attachment 2 (no Attachment 3)
Bid Form and Subcontractor List Form Attachment 4
Bid Bond Attachment 5
Non-Collision Affidavit Attachment 6
Small Local Business Enterprise Attachment 7
Small Local Business Enterprise Certification Attachment 8
Vendor’s Questionnaire Attachment 9
Environmentally Sustainable Procurement Attachment 10
Worker’s Compensation Certificate Attachment 11
Statement of Equal Employment Opportunity Attachment 12
Performance Bond Attachment 13
Payment Bond Attachment 14
Contract Attachment 15
Bid Protest Procedures Attachment 16
Construction Debris Reporting Requirements Attachment 17
Construction Protocol Procedures Attachment 18
Final Cleaning Requirements Attachment 19
Post Bid Interview Attachment 20

Scope of Work

Section 00700  General Conditions

DIVISION 01 - GENERAL REQUIREMENTS

Not used

DIVISION 02 - EXISTING CONDITIONS

Section 02 41 16  Structure Demolition

DIVISION 03 - CONCRETE

Section 03 01 92  Concrete Floor and Wall Cleaning and Refinishing
Section 03 35 00  Concrete Finishing
PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

**DIVISION 04 - MASONRY**

Section 04 01 32  Masonry Floor Cleaning and Refinishing

**DIVISION 05 - METALS**

Section 05 12 00  Structural Steel
Section 05 40 00  Cold-Formed Metal Framing
Section 05 45 00  Metal Support Assemblies
Section 05 50 00  Metal Fabrications
Section 05 70 00  Decorative Metal

**DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES**

Section 06 41 10  Custom Casework
Section 06 61 16  Solid Surfacing Fabrications

**DIVISION 07 - THERMAL AND MOISTURE PROTECTION**

Section 07 84 00  Firestopping
Section 07 92 00  Joint Sealants

**DIVISION 08 - OPENINGS**

Section 08 11 15  Steel Doors and Frames
Section 08 11 16  Aluminum Doors and Frames
Section 08 14 16  Flush Wood Doors
Section 08 31 13  Access Doors and Frames
Section 08 43 23  Steel Framed Storefronts
Section 08 71 00  Door Hardware
Section 08 80 00  Glazing

**DIVISION 09 - FINISHES**

Section 09 29 00  Gypsum Board
Section 09 30 00  Tiling
Section 09 51-00  Acoustical Ceilings
Section 09 65 00  Resilient Flooring
Section 09 68 00  Carpeting
Section 09 68 13  Tile Carpeting
Section 09 90 00  Painting and Coating
Section 09 97 25  Vapor Emission Treatment Systems

**DIVISION 10 - SPECIALTIES**

Section 10 11 00  Visual Display Surfaces
Section 10 13 00  Directories
Section 10 14 00  Signage
Section 10 28 13  Toilet Accessories
PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

Section 10 44 00  Fire Protection Specialties
Section 10 55 23  Mail Boxes
Section 10 83 16  Banners

DIVISION 11 - EQUIPMENT

Section 11 30 00  Residential Equipment

DIVISION 12 - FURNISHINGS

Section 12 21 00  Window Blinds
Section 12 24 00  Window Shades

DIVISION 13 - SPECIAL CONSTRUCTION

Not Used

DIVISION 14 - CONVEYING SYSTEM

Not Used

DIVISIONS 15 – PLUMBING

Section 15400  Plumbing

DIVISIONS 16-20 – Not Assigned

DIVISION 21 - FIRE SUPPRESSION

Section 21 13 13  Wet Pipe Sprinkler System

DIVISION 22 - PLUMBING

See Division 15

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

Section 23 82 19  Fan Coil Units
Section 23 09 00  Instrumentation and Control for HVAC

DIVISION 24 - Not Assigned

DIVISION 25 - INTEGRATED AUTOMATION

Not Used
Peralta Community College District
Rehabilitations to Laney College Administrative Tower
Fallon and East 10th Street
Oakland, California

Division 26 - Electrical

- Section 26 00 50 General Electrical
- Section 26 05 00 Common Materials and Methods
- Section 26 27 00 Low Voltage Distribution
- Section 26 50 00 Lighting Fixtures

Division 27 - Communications

Not Used

Divisions 28 - Electronic Safety and Security

- Section 28 31 00 Fire Alarm System

Divisions 29 Through 30 - Not Assigned

Divisions 31 Through 35

Not Used

Divisions 36 Through 39 - Not Assigned

Divisions 40 Through 48

Not Used

Division 49 - Not Assigned

Appendix

- PCCD Construction Project Labor Agreement

End of Table of Contents
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 5: Drawing Index - YHLA (4 pages)
PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

DRAWING INDEX

YHLA DRAWINGS
DSA PERMIT APPLICATION
# 01-110487

T1 TITLE SHEET
T2 GENERAL NOTES

ARCHITECTURAL

A0.1 ACCESSIBILITY COMPLIANCE DIAGRAM
A0.2 ACCESSIBLE PARKING LOT COMPLIANCE - REFERENCE ONLY
A0.3 ACCESSIBILITY AND EXIT PLANS
A1.0 SITE PLAN - UPPER AND LOWER CONCOURSE LEVELS
A2.0 BASEMENT CONSTRUCTION & FINISH PLAN
A2.1a LOBBY FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.1b LOBBY FLOOR FINISH PLAN
A2.2a SECOND FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.2b SECOND FLOOR FINISH PLAN
A2.3a THIRD FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.3b THIRD FLOOR FINISH PLAN
A2.4a FOURTH FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.4b FOURTH FLOOR FINISH PLAN
A2.5a FIFTH FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.5b FIFTH FLOOR FINISH PLAN
A2.6a SIXTH FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.6b SIXTH FLOOR FINISH PLAN
A2.7a SEVENTH FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.7b SEVENTH FLOOR FINISH PLAN
A2.8a EIGHTH FLOOR DEMOLITION & CONSTRUCTION PLAN
A2.8b EIGHTH FLOOR FINISH PLAN
A2.9 NINTH FLOOR FINISH PLAN
A4.0 ENLARGED PLANS
A5.0 LOBBY INTERIOR ELEVATIONS
A5.1 INTERIOR ELEVATIONS
A5.2 OFFICE CORRIDOR ELEVATIONS
A6.0 TYPICAL RESTROOMS
A6.1 DRINKING FOUNTAIN AND TYPICAL RESTROOM DETAILS
A7.0 DOOR AND SIGNAGE SCHEDULES
A7.1 SIGNAGE DETAILS
A9.0 STOREFRONT AND DOOR DETAILS
A9.1 LOBBY DETAILS
A9.2 LOBBY DETAILS
A9.3 GENERAL DETAILS

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PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

A9.4 GENERAL DETAILS

STRUCTURAL
S1 GENERAL NOTES, 1ST FLOOR PLANS AND DETAILS
S2 1ST FLOOR ELEVATIONS AND DETAILS
S3 BASEMENT AND 3RD FLOOR PLANS AND DETAILS

ELECTRICAL
E0.0 ELECTRICAL LEGEND
E2.1A LOBBY LIGHTING PLANS
E2.1B LOBBY FLOOR POWER PLANS

FIRE ALARM
F1.0 FIRE ALARM COVER SHEET
F1.1 FIRE ALARM RISER DIAGRAM
F1.2 CALCULATIONS AND DETAILS
F2.0 FIRE ALARM PLAN - BASEMENT
F2.1 FIRE ALARM PLAN - LOBBY FLOOR
F2.2 FIRE ALARM PLAN - SECOND FLOOR
F2.3 FIRE ALARM PLAN - THIRD FLOOR
F2.4 FIRE ALARM PLAN - FOURTH FLOOR
F2.5 FIRE ALARM PLAN - FIFTH FLOOR
F2.6 FIRE ALARM PLAN - SIXTH FLOOR
F2.7 FIRE ALARM PLAN - SEVENTH FLOOR
F2.8 FIRE ALARM PLAN - EIGHTH FLOOR
F2.9 FIRE ALARM PLAN - NINTH FLOOR AND MEZZANINE

MECHANICAL
MP1.1 MECHANICAL SCHEDULES DETAILS & LEGEND
MP1.2 MECHANICAL & PLUMBING SCHEDULES DETAILS, LEGEND
MP2.0 MECHANICAL & PLUMBING BASEMENT PLAN
MP2.1 MECHANICAL & PLUMBING LOBBY CEILING PLAN
MP2.2 MECHANICAL & PLUMBING SECOND FLOOR PLAN
MP2.3 MECHANICAL & PLUMBING THIRD FLOOR PLAN
MP2.4 MECHANICAL & PLUMBING FOURTH FLOOR PLAN
MP2.5 MECHANICAL & PLUMBING FIFTH FLOOR PLAN
MP2.6 MECHANICAL & PLUMBING SIXTH FLOOR PLAN
MP2.7 MECHANICAL & PLUMBING FOURTH FLOOR PLAN
PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

MP2.8 MECHANICAL & PLUMBING FIFTH FLOOR PLAN
MP2.9 MECHANICAL & PLUMBING SIXTH FLOOR PLAN
MP6.0 MECHANICAL & PLUMBING TYPICAL RESTROOMS

DRAWING INDEX

CHEVRON/FLATLEY DRAWINGS
DSA PERMIT APPLICATION
# 01-110941

ARCHITECTURAL
A0.0 TITLE SHEET, VICININTY MAY, NOTES, DIRECTORY, CODES & LEGEND
A2.0 2ND – 3RD FLOOR REFLECTED CEILING PLANS
A2.1 4TH & 5TH FLOOR REFLECTED CEILING PLANS
A2.2 6TH & 7TH FLOOR REFLECTED CEILING PLANS
A2.3 8TH FLOOR REFLECTED CEILING PLAN
A9.0 DETAILS

MECHANICAL
G01 COVER SHEET WITH DRAWING INDEX AND KEY
MD-01 BASEMENT AND FIRST FLOOR DEMOLITION PLANS
MD-02 SECOND AND THIRD FLOOR DEMOLITION PLANS
MD-03 EIGHTH AND NINTH FLOOR DEMOLITION PLANS
MD-04 MECHANICAL ROOMS B-140 AND 950 DEMOLITION PLANS
M-1 SPECIFICATIONS, SYMBOLS, GENERAL NOTES AND ABBREVIATIONS
M-2 MECHANICAL EQUIPMENT SCHEDULES & AIR FLOW DIAGRAM
M-3 BASEMENT AND FIRST FLOOR NEW CONSTRUCTION PLANS
M-4 SECOND AND THIRD FLOOR NEW CONSTRUCTION PLANS
M-5 FOURTH AND FIFTH FLOOR NEW CONSTRUCTION PLANS
M-6 SIXTH AND SEVENTH FLOOR NEW CONSTRUCTION PLANS
M-7 EIGHTH AND NINTH FLOOR NEW CONSTRUCTION PLANS
M-8 MECHANICAL DETAILS AND DIAGRAMS
M-9 SEQUENCE OF OPERATION AND POINTS LIST
M-09A SEQUENCE OF OPERATION AND POINTS LIST

ELECTRICAL

6.23.11 00 01 10 - 3 Table of Contents
E1.0  ELECTRICAL COVER SHEET
E2.0A  BASEMENT LIGHTING PLAN, DEMO PLAN
E2.0B  BASEMENT POWER PLAN
E2.2A  SECOND FLOOR LIGHTING PLAN, DEMO PLAN
E2.2B  SECOND FLOOR POWER PLAN
E2.3A  THIRD FLOOR LIGHTING PLAN, DEMO PLAN
E2.3B  THIRD FLOOR POWER PLAN
E2.4A  FOURTH FLOOR LIGHTING, DEMO PLAN
E2.4B  FOURTH FLOOR POWER PLAN
E2.5A  FIFTH FLOOR LIGHTING PLAN, DEMO PLAN
A2.5B  FIFTH FLOOR POWER PLAN
A2.6A  SIXTH FLOOR LIGHTING PLAN, DEMO PLAN
A2.6B  SIXTH FLOOR POWER PLAN
A2.7A  SEVENTH FLOOR LIGHTING, DEMO PLAN
A2.7B  SEVENTH FLOOR POWER PLAN
A2.8A  EIGHTH FLOOR LIGHTING, DEMO PLAN
A2.8B  EIGHTH FLOOR POWER PLAN
A2.9  NINTH FLOOR ELECTRICAL PLANS
BC1  BUILDING COMPLIANCE FORMS
ADDENDUM No.: 2

Bid No.:  10-11/34 Laney Tower Modernization
        (Project # 2389)

Item 6: Summary of Changes to YHLA Drawings (9 pages)
ADDENDUM NO. 2

Project: Peralta Community College District
Rehabilitations to the Laney College
Administration Tower
Fallon and East 10th Streets
Oakland, California

Reference: Documents Issued for Bid June 1, 2011

Date of Issuance: May 27, 2011 (YHLA drawing set only)

Distribution: Trent Tornaben / via email
Benga Olayomi / via email
Joe Flatley / via email
Adan Rosillo / via email
Oscar Louie / via email
Glenn Higash / via email

Addendum by: Andy Carpentier

The prime contract bidders of record for the aforementioned project are hereby informed that this addendum forms a part of the Contract Documents and modifies or clarifies the original drawings and specifications as noted below. This Addendum narrative is only a general description of the bid document revisions and is not intended to describe all revisions nor in every detail if attachment is provided. As a graphic aid, revisions to the drawing attachments have been generally indicated with a cloud. The contractor is responsible for fully comparing any item listed below or any attachments with the previously issued documents and incorporate any modifications or clarifications into their final bid. Receipt of this addendum shall be acknowledged in writing when the bid is submitted.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Sheet No. / Specification Section No. / Reference No.</th>
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<tbody>
<tr>
<td>2A.01</td>
<td>Cover</td>
<td>Addendum #2 date added.</td>
</tr>
</tbody>
</table>

Sheet E2.2A removed from the Drawing Index. (See Flatley Chevron Set for 2nd Floor Electrical Reflected Ceiling Plan

Note #1 expanded to include the DSA permit application number for the YHLA scope of work.

2.A02 T1  "Building Description, Sprinklers" changed from "fully sprinklered" to "partially sprinklered."
<table>
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<tr>
<th>Item No.</th>
<th>Sheet No. / Specification Section No. / Reference No.</th>
<th>General Description</th>
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</thead>
<tbody>
<tr>
<td>2A.03</td>
<td>T2</td>
<td>“Pricing Alternates,” Alternate #1 description added “per door schedule on sheet A7.0. Alternate #2 and #3 clarified to be a deductive alternate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Note #4 changed to permit fees paid for by the “District,” not the “Contractor.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Note #18 modified to provide a sufficient number of submittals for the construction manager and inspector of record as well as the architect to retain a copy.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The last general note number was changed from 16 to 20 and wording was added that contractor shall maintain life safety system functionality during construction and is responsible for system component protection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reflected Ceiling Note numbers modified slightly. Text remains the same.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General Finish Note #3 wording “on this sheet” removed – since finishes are not located on the same sheet.</td>
</tr>
<tr>
<td>2A.04</td>
<td>A2.0</td>
<td>Construction Key Note #6 revised to coordinate placement of mirror with end-user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #9. “Tenant Supplied” changed to “District Supplied.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan added floor material change line at door to Maintenance Office B101.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan Key Note #3 added Alternate #3 text.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan Key Note #4 added rubber base and location of specification.</td>
</tr>
<tr>
<td>2A.05</td>
<td>A2.2a</td>
<td>Demolition Plan “no work” hatch removed from elevators and a key for note #8 was added to a device adjacent to Shaft #1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Demolition Key Note #5 modification to “coordinate exposed infrastructure with architect.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Demolition Key Note #7 changed to include a new door.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Demolition Key Note #8 “see electrical drawings” text removed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Demolition Key Note #13 added to remove elevator flooring.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Plan door and door symbol added at Room #103 (“Vending” to “Storage”).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Plan section cuts call-outs were changed at three existing exit doors to remain.</td>
</tr>
</tbody>
</table>
Construction Plan elevation marker call-out for the Art Gallery #150 doors has been changed.

Construction Plan millwork at four (4) niches has been changed.

Construction Plan an additional missing floor grille was identified.

Construction Key Note #5 added a sheet reference.

Construction Key Note #7 was removed. (Display cases removed).

Construction Key Note #8 added sentence to clean existing floor grilles.

Construction Key Note #13 has revised detail call-outs.

Construction Key Note #14 note added to review exposed wiring options with architect.

Construction Key Note #15 changed to provide a new steel door.

2A.06  A2.1b Reflected Ceiling Key Note #2.  A note was added to provide unit pricing for new acoustical ceiling panels.

Reflected Ceiling Key Note #7 was modified with “or provide new” in relation to lobby downlights.

Reflected Ceiling Plan Legend:  Black wall type was modified and details referenced.

Finish Plan door added at Room #103 and millwork changes shown in four (4) niches.

Finish Key Note #3 now lists the deductive alternate.

Finish Key Note #4 was modified for the new signage added at door to Room #103.

Finish Key Note #9 was modified to include a total of 10 locations.

2A.07  A2.2a Demolition Key Note #2 added wording “applied to interior side” in reference to window film.  NOTE: This change applies to Demolition Key Notes on A2.2a through A2.8a.

Demolition Key Note #7 added note to coordinate routing of exposed items with architect.  NOTE: This change applies to Demolition Key Notes on A2.2a through A2.8a.

Floor Plan:  Key Note #1 reference applied at Women #215.  NOTE: This change
<table>
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<th>Sheet No. / Specification Section No. / Reference No.</th>
<th>General Description</th>
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<tr>
<td></td>
<td></td>
<td>applies to Floor Plans on A2.2a through A2.8a.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor Plan door symbol at Room #201 hardware type changed from “E” to “DD.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #3 schedule reference on A6.0 added. NOTE: This change applies to Construction Key Notes on A2.2a through A2.8a.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #5 railings, reference to details and water filtration specification added. NOTE: This change applies to Construction Key Notes on A2.2a through A2.8a.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #6 room numbers were modified. (#301 dropped). NOTE: This change applies to Construction Key Notes on A2.2a through A2.8a.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #7 added reference to specifications and elevation. NOTE: This change applies to Construction Key Notes on A2.2a through A2.8a.</td>
</tr>
<tr>
<td>2A.08</td>
<td>A2.2b</td>
<td>Finish Schedule added PL-2 specification and not modification that “all office areas on floors to be CPT-1 unless otherwise indicated” NOTE: This change applies to Demolition Key Notes on A2.2a through A2.8a.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan: Key note reference #24 added at Room #205 and flooring hatch removed at Room #250 – area of no work.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan Key Note #2 and #3 added reference to rubber wall base = RB-1. Note #3 added reference to Transition Strips = TS-1. NOTE: These changes apply to Finish Plan Key Notes on A2.2a through A2.8a.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Key Note #24 added to retain existing equipment room flooring in Room #205.</td>
</tr>
<tr>
<td>2A.09</td>
<td>A2.3a</td>
<td>See standard note changes listed on item 2A.07 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor Plan door symbol at Room #301 hardware type changed from “E” to “DD.” Key note reference #6 changed to #9.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #9 note modified to tie hold-open to life safety system and use solid surface counter and plywood core for the casework.</td>
</tr>
<tr>
<td>2A.10</td>
<td>A2.3b</td>
<td>See standard note changes listed on item 2A.08 above.</td>
</tr>
<tr>
<td>2A.11</td>
<td>A2.4a</td>
<td>Demolition Plan and Floor Plan “not-in-contract” hatch removed from Faculty Lounge #450.</td>
</tr>
<tr>
<td>Item No.</td>
<td>Sheet No. / Specification</td>
<td>General Description</td>
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</tr>
<tr>
<td>2a.12</td>
<td>A2.4b</td>
<td>See standard note changes listed on item 2A.07 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan finishes and key note references added at Faculty Lounge #450</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan Key Note #24 Added for work in Room #450.</td>
</tr>
<tr>
<td>2A.13</td>
<td>A2.5a</td>
<td>See standard note changes listed on item 2A.07 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor Plan key note reference 2 added outside Office #551.</td>
</tr>
<tr>
<td>2A.14</td>
<td>A2.5b</td>
<td>See standard note changes listed on item 2A.08 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan Key Note #24 added and reference applied at Finish Plan at Equip. Room #505 to retain existing floor finish.</td>
</tr>
<tr>
<td>2A.15</td>
<td>A2.6a</td>
<td>See standard note changes listed on item 2A.07 above.</td>
</tr>
<tr>
<td>2A.16</td>
<td>A2.6b</td>
<td>See standard note changes listed on item 2A.08 above.</td>
</tr>
<tr>
<td>2A.17</td>
<td>A2.7a</td>
<td>See standard note changes listed on item 2A.07 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Demolition Plan existing door to remain at Office #710 shown. New door opening in Room #710 eliminated; Demolition of wall at Office #707 was added and the door between Room 707 and 705 is no longer being removed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor Plan; Door and wall changes to Offices 707 and 710 are indicated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Construction Key Note #9 was revised to say “N.I.C. bookcases” and to “verify size with District’s furniture vendor.”</td>
</tr>
<tr>
<td>2A.18</td>
<td>A2.7b</td>
<td>See standard note changes listed on item 2A.08 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan revised to clearly show flooring in Conference Room #751</td>
</tr>
<tr>
<td>2A.19</td>
<td>A2.8a</td>
<td>See standard note changes listed on item 2A.07 above.</td>
</tr>
<tr>
<td>Item No.</td>
<td>Sheet No. / Specification Section No. / Reference No.</td>
<td>General Description</td>
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</tr>
<tr>
<td>2A.20</td>
<td>A2.8b</td>
<td>See standard note changes listed on item 2A.08 above.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Finish Plan changed at Meeting Room #850 and signage symbols were revised to signage types 6 and 9.</td>
</tr>
<tr>
<td>2A.21</td>
<td>A4.0</td>
<td>Detail 2: Plastic laminate finish identified and desktop electrical/data outlets specified. Details 3-5: Wall panel detail reference revised. Detail 4 was changed to new mailboxes. Detail 5 was changed to the information kiosk Detail 8 was revised to show the existing handrail and changes to the call button and flooring.</td>
</tr>
<tr>
<td>2A.22</td>
<td>A5.0</td>
<td>Details 2, 5 and 6: Wall panel detail reference revised. Detail 2 has a change to the mailbox base. Detail 4 added a detail reference for the acoustic wall panels and expanded on the note to replace conduit to the pull station. Detail 6 now shows the new added mailboxes and removed the display case.</td>
</tr>
<tr>
<td>2A.23</td>
<td>A5.1</td>
<td>Detail 1 and 4 revised the height of the reception counter. Details 3 and 6 were deleted. Detail 9 has an added note regarding the blank panels/</td>
</tr>
<tr>
<td>2A.24</td>
<td>A6.1</td>
<td>Detail 1 added a preferred drinking fountain specification. This should be included in the bid. If the cost of the other specified fountain is comparable, please note it as an aside on the bid. A note about filter placement was added. Detail 7 was changed to a different threshold Detail 10 added wall backing.</td>
</tr>
<tr>
<td>2A.25</td>
<td>A7.0</td>
<td>Detail 3 added a steel stop. Door Schedule changed. One new door added, four other doors removed and notes changed.</td>
</tr>
<tr>
<td>Item No.</td>
<td>Sheet No. / Specification Section No. / Reference No.</td>
<td>General Description</td>
</tr>
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</tbody>
</table>
| 2A.26   | A9.0                                                | Detail 5 added silencers and acoustic ceiling where occurs.  
|         |                                                     | Detail 7 added new glazing note. |
| 2A.27   | A9.1                                                | Detail 1 base height changed.  
|         |                                                     | Detail 4 note added about size of display window  
|         |                                                     | Detail 6 finish changed to solid surface |
| 2A.28   | A9.2                                                | Details 2, 6 and 9 now reference connection details on structural drawings, size of angles and new acoustic panels above.  
|         |                                                     | Detail 5 added reference to structural drawings and use decorative cap nuts. |
| 2A.29   | A9.3                                                | Details 1, 2 and 3 were deleted.  
|         |                                                     | Detail 5 revised the desk height and top finish  
|         |                                                     | Detail 6 specifies a ledger wall connection and adds a leg specification.  
|         |                                                     | Details 7 and 11 added countertop specification information |
|         |                                                     | STRUCTURAL – No changes |
|         |                                                     | ELECTRICAL |
| 2E.1    | E0.0                                                | Panel Schedule and General notes were added. |
| 2E.2    | E2.0A                                               | This sheet was deleted |
| 2E.3    | E2.1A                                               | Lighting Plan: New light fixture added at Room #103  
|         |                                                     | General Note #7 modified with contact information |
| 2E.4    | E2.1B                                               | This sheet was added to show power and communication at Lobby Level |
|         |                                                     | FIRE ALARM |
| 2F.1    | F1.1                                                | Added strobe as noted on 8th floor, door holder as noted for the 3rd floor and strobes as noted for the 2nd floor on riser along with the deletion of a strobe on the first floor. |
| 2F.2    | F2.1                                                | Deleted strobe on the first floor as noted. |
2F.3 F2.2  Added strobe as noted on the second floor.

2F.4 F2.3  Added door holders as noted on the 3rd floor.
2F.5 F2.8  Added strobe as noted on the 8th floor.

2.M1 General  Mechanical portions for the scope of work listed on floors 2-8 - with the exception of new meeting space exhaust fans - have been superseded by mechanical design drawings contained in the Flatley/Chevron set. The following mechanical drawing changes have not yet been made to the drawings:

2.M2 MP2.2  Sheet Note #1 and its associated mechanical work scope has been deleted.
2.M3 MP 2.3  Sheet Notes #1, 2 & 3, and their associated mechanical work scopes have been deleted.
2.M4 MP 2.5  Sheet Notes #2, 3 & 4, and their associated mechanical work scopes have been deleted.
2.M5 MP 2.6  Sheet Notes #2, 3 & 4, and their associated mechanical work scopes have been deleted.
2.M6 MP 2.7  Sheet Note #1 and its associated mechanical work scope has been deleted.
2.M7 MP 2.8  Sheet Notes #2, 4, 5, 6 & 7, and their associated mechanical work scopes have been deleted.

2.S1 00 01 10  Added Table of Contents for the Project Manual and slight relocation of sections for numerical consistency. Specification section numbers specific to the Flatley/Chevron drawing scope of work are underlined in the table of contents.

2.S2 05 12 00  Previously missing specification section added for Structural Steel.
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Sheet No. / Specification Section No. / Reference No.</th>
<th>General Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.S.3</td>
<td>05 40 00</td>
<td>Previously missing specification section added for Cold Formed Metal Framing</td>
</tr>
<tr>
<td>2.S4</td>
<td>08 71 00</td>
<td>Previously missing page #5 of 5 added.</td>
</tr>
<tr>
<td>2.S5</td>
<td>09 29 00</td>
<td>Clarified duplicated specification sections (YHLA's supersedes Flatley/Chevron with additional &quot;Related Sections&quot; under 101.D. This represents the only difference between the duplicate sections.</td>
</tr>
<tr>
<td>2.S6</td>
<td>09 90 00</td>
<td>Clarified duplicated specification sections (YHLA's supersedes Flatley/Chevron with additional &quot;Related Sections&quot; under 101.C. This represents the only difference between the duplicate sections.</td>
</tr>
<tr>
<td>2.S7</td>
<td>26 00 50</td>
<td>Clarified duplicated specification sections (YHLA's supersedes Flatley/Chevron with additional &quot;Work Included&quot; and &quot;Related Sections&quot; under 1.1.B&amp;C. This represents the only difference between the duplicate sections.</td>
</tr>
<tr>
<td>2.S8</td>
<td>26 05 00</td>
<td>Clarified duplicated specification sections are identical.</td>
</tr>
<tr>
<td>2.S9</td>
<td>26 27 00</td>
<td>Clarified duplicated specification sections are identical.</td>
</tr>
<tr>
<td>2.S10</td>
<td>26 50 00</td>
<td>Clarified duplicated specification sections (Flatley/Chevron supersedes YHLA with updated sub-section 2.4. This represents the only difference between the duplicate sections.</td>
</tr>
<tr>
<td>2.S11</td>
<td>21 13 13</td>
<td>Performance Specification Section added for design/build automatic sprinkler system scope of work.</td>
</tr>
</tbody>
</table>

END OF ADDENDUM NO. 2
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 7: Updated Architectural Drawings – YHLA (38 pages)
NOTES:

1. THESE DRAWINGS CONTAIN ARCHITECTURAL SCALES OF SCOPE OF WORK RELATED TO DSA PERMIT APPLICATION #11-106497, REFER ALSO TO DSA PERMIT APPLICATION #11-105417 FOR MECHANICAL AND ELECTRICAL SCALES OF WORK ASSOCIATED WITH THIS PROJECT.

2. IT IS THE DESIGN INTENT TO PROVIDE AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING IN ACCORDANCE WITH CBC SECTION 903.2.1.1 IN LINE OF RATED CORRIDOR CONSTRUCTION IN ACCORDANCE WITH CBC TABLE 1517.1 FOR 8 OCCUPANCIES. FIRE SPRINKLER DESIGN DRAWINGS SHALL BE SUBMITTED TO DSA FOR PERMIT REVIEW AND APPROVAL AS A DEFERRED APPLICATION.
GENERAL DEMOLITION NOTES
1. The design drawings for project components in the reference and illustration sections of the drawings are not intended to be complete or detailed. The Contractor shall verify the adequacy of these drawings by routine on-site visual inspections, before proceeding with work.
2. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
3. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
4. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
5. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.

GENERAL CONSTRUCTION NOTES
1. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
2. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
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19. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
20. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.

GENERAL REFLECTED CEILING NOTES:
1. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
2. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
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GENERAL FINISH NOTES:
1. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
2. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
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20. The Contractor shall verify the adequacy of the existing conditions shown on the drawings before proceeding with work.
ACCESSIBLE PARKING AREA WITH ACCESSIBLE AND VAN ACCESSIBLE PARKING STALLS PREVIOUSLY APPROVED BY DSA PER APPLICATION NO. 104246.

EXIT PATH / ACCESSIBLE ROUTE TO PUBLIC WAY; COMPLIANT WITH CBC SECTION 1127B.

EXIT PATH / ACCESSIBLE ROUTE TO PUBLIC WAY ON DIFFERENT LEVEL; COMPLIANT WITH CBC SECTION 1127B.

ACCESSIBLE ENTRY / EXIT 36" MIN. NET CLEAR WIDTH TO LEVER OR PANIC HARDWARE

TYPICAL ACCESSIBLE DOOR CLEARANCES

NOTE: THE FLOOR OR GROUND IN THE REQUIRED MANEUVERING AREA SHALL BE LEVEL AND CLEAR WHEN THE MANEUVERING AREA IS IN THE INTERIOR. WHEN THE MANEUVERING AREA IS IN THE EXTERIOR, IT MAY HAVE A SLOPE NOT TO EXCEED 2%.

ACCESSIBILITY NOTES

1. ACCESSIBLE PATH OF TRAVEL AN INDICATE THE PATH IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

2. TO THE EXTENT FEASIBLE THE ACCESSIBLE ROUTE IS THE COMMON PATH OF TRAVEL. WHERE THE ACCESSIBLE PATH OF TRAVEL DIVERGES FROM THE COMMON PATH OF TRAVEL, A DIRECTIONAL SIGN WILL BE PROVIDED, PER CBC 1127B.3.

3. SEE PLANS AND INTERIOR ELEVATIONS FOR REQUIRED "ACCESSIBLE" CLEARANCES, DIMENSIONS, DETAILS, AND NOTES IN ROOMS AND/OR SPACES WHERE APPLICABLE FOR THIS PROJECT.

4. ALL DOORS SHALL BE ACCESSIBLE PER CBC SECTION 1133B.

5. AUDIBLE AND VISUAL FIRE ALARMS ARE LOCATED IN ALL RESTROOMS.

ACCESSIBILITY COMPLIANCE DIAGRAM FOR REFERENCE ONLY - NO WORK AS NOTED

PARKING REQUIREMENTS

THE ACCESSIBLE OFF-STREET PARKING PROVIDED BELOW IS IN ACCORDANCE WITH THE REQUIREMENTS OF CBC SECTION 1127C AND IS LOCATED ON AN ACCESSIBLE ROUTE TO THE TENANT IMPROVEMENT AREA. REFER TO SHEET A0.2 FOR ADDITIONAL DETAILS.

SITE KEY PLAN

PARKING REQUIREMENTS

ACCESSIBILITY NOTES

TYPICAL ACCESSIBLE DOOR CLEARANCES

NOTE: THE FLOOR OR GROUND IN THE REQUIRED MANEUVERING AREA SHALL BE LEVEL AND CLEAR WHEN THE MANEUVERING AREA IS IN THE INTERIOR. WHEN THE MANEUVERING AREA IS IN THE EXTERIOR, IT MAY HAVE A SLOPE NOT TO EXCEED 2%.
PARKING STALL SIGN AND POST DETAIL

- 1" RADIUS AT ALL CORNERS, TYP.
- ENSURE MANUFACTURED SIGN COMPLIES WITH ALL REQUIREMENTS.
- REFLECTORIZED WHITE PAINTED TEXT AND GRAPHICS ON BLUE BACKGROUND WITH WHITE BORDER.
- SIGN PLATE FROM 12 GAUGE GALVANIZED SHEET STEEL OR ALUMINUM.
- SCALE: 1" = 1'-0".

TOW AWAY SIGN DETAIL

- 1" RADIUS AT ALL CORNERS, TYP.
- ENSURE MANUFACTURED SIGN COMPLIES WITH ALL REQUIREMENTS.
- REFLECTORIZED WHITE PAINTED TEXT AND GRAPHICS ON BLUE BACKGROUND WITH WHITE BORDER.
- SIGN PLATE FROM 12 GAUGE GALVANIZED SHEET STEEL OR ALUMINUM.
- SCALE: 1" = 1'-0".

FORUM ACCESSIBLE PARKING LOT PLAN

- INTERNATIONAL ACCESSIBILITY PAVEMENT SYMBOL, TYPICAL AT EACH PARKING STALL.
- WORDS "NO PARKING" (12" HIGH MIN.) PAINTED, TYPICAL WITHIN THE LOADING AND UNLOADING ACCESS AISLES.
- TREE WELL PAVED IN WHERE IT OVERLAPS PARKING SPACE.
- PARKING STALL SIGN AND POST DETAIL.
- TOW AWAY SIGN DETAIL.

ACCESSIBLE PARKING PRIOR TO 2009 IMPROVEMENTS - PHOTO

- NOTE: DRAWING FOR REFERENCE ONLY - NO NEW WORK.
- THE EXISTING PARKING LOT INDICATED IN THE PHOTO WAS UPGRADED PER THIS DRAWING AS PART OF DSA PERMIT APPLICATION 01-110-111 IN JUNE 2009.
PROVIDE TWELVE (12) NEW FIRE RESISTANT FABRIC BANNERS PER DETAIL A9.2 AND TEN (10) ACOUSTICAL WALL PANELS PER DETAIL.

REMOVE EXISTING ELEVATOR FLOORING. COORDINATE WITH ELECTRICAL TO CONCEAL CONDUITS. PROVIDE BANNER SUPPORTS, DISPLAY PANELS, LIGHTING AND MAILBOX DOORS & TRIM AS WELL AS THE NEW DOOR AND WALL VENEER TO MATCH THE NEW OAK PANELS AND CASEWORK.

REMOVE EXISTING LIFE SAFETY STROBES AND EXPOSED CONDUITS. SALVAGE DEVICES FOR RE-USE.

PREPARE EXISTING DOOR FRAME FOR NEW DOOR.

PREPARE EXISTING DOOR FOR NEW PAINT AT EXISTING DOORS AND FRAMES, REMOVE ALL DOOR HARDWARE, REMOVE ANY RUSTED AREAS AND VERIFY THAT ALL EXISTING HARDWARE IS CLEANED, OPERATIONAL AND MEETS ACCESSIBILITY REQUIREMENTS (INCLUDING 5 LB. PREPARE (SAND SMOOTH) DOORS AND FRAMES AT STAIRS NO. 1 AND NO. 2, AS NEEDED. ENSURE THAT STEEL JAMBS ARE SOLID AND VERIFY THAT ALL EXISTING HARDWARE IS CLEANED, OPERATIONAL AND MEETS ACCESSIBILITY REQUIREMENTS (INCLUDING 5 LB.

REPAIR WALLS WHERE ATTACHMENTS WERE REMOVED READY TO RECEIVE NEW FINISH AS SCHEDULED. SALVAGE BULLETIN BOARDS MOUNTED POWER SOURCE WITH ARCHITECT IN FIELD TO MINIMIZE VISIBILITY. PROVIDE WIRELESS OPERATION BUTTONS WHERE INDICATED.

PROVIDE NEW ALUMINUM STOREFRONT FRAMING PER DETAIL 11/A5.0 TO MATCH FINISH OF EXISTING STOREFRONT.

PROVIDE TWO (2) NEW BUILT-IN OAK INFORMATION KIOSKS WITH SOLID SURFACE COUNTERS.

PROVIDE NEW BUILT-IN CUSTOM OAK MAILBOXES AS INDICATED USING SALVAGED MAIL DOORS AND HARDWARE. STRIP AND REFINISH

PROVIDE NEW FLUSH-OVERLAY PLASTIC LAMINATE CABINETS, SHELVING, AND COUNTERTOP INSIDE THE MAIL ROOM AS INDICATED. PROVIDE NEW ELEVATOR CALL BUTTON FACE PLATE AS INDICATED ON SHEET A5.2. PATCH (E) CONC. WALL AS NEEDED TO MATCH EXISTING.

PROVIDE TWO(2) FREE STANDING MOBILE DISPLAY WALLS PER DETAIL 7/A4.0.

PROVIDE AND INSTALL A NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PROVIDE NEW ALUMINUM LETTERS FOR THE ART GALLERY AND INFORMATION DESK.

PROVIDE AND INSTALL NEW ALUM. LETTERS FOR THE ART GALLERY AND INFORMATION DESK.

PROVIDE NEW OAK PANELS AT THE REAR OF ELEVEN (11) CONCRETE WALL NICHES AS INDICATED IN ELEVATION. NOTE THAT SOME NICHE PANELS WILL BE FULL HEIGHT AND SOME WILL BE LOCATED ABOVE EXISTING OR NEW CASEWORK. SEE SHEET A5.0

PROVIDE AND INSTALL NEW ALUMINUM BULLETIN BOARD (V) WALL PANELS.

PROVIDE NEW BULLETIN BOARDS, DIRECTORIES AND NON-LIFE-SAFETY SIGNAGE AS WELL AS ANY RELATED ATTACHMENTS.

PROVIDE AND INSTALL NEW ALUM. LETTERS FOR THE ART GALLERY AND INFORMATION DESK.

PROVIDE AND INSTALL A NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PROVIDE NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PROVIDE AND INSTALL A NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PROVIDE NEW FLUSH-OVERLAY PLASTIC LAMINATE CABINETS, SHELVING, AND COUNTERTOP INSIDE THE MAIL ROOM AS INDICATED. PROVIDE TWO (2) NEW BUILT-IN OAK INFORMATION KIOSKS WITH SOLID SURFACE COUNTERS.

PROVIDE TWO (2) NEW BUILT-IN CUSTOM OAK MAILBOXES AS INDICATED USING SALVAGED MAIL DOORS AND HARDWARE. STRIP AND REFINISH

PROVIDE NEW OAK PANELS AT THE REAR OF ELEVEN (11) CONCRETE WALL NICHES AS INDICATED IN ELEVATION. NOTE THAT SOME NICHE PANELS WILL BE FULL HEIGHT AND SOME WILL BE LOCATED ABOVE EXISTING OR NEW CASEWORK. SEE SHEET A5.0

PROVIDE AND INSTALL NEW ALUMINUM BULLETIN BOARD (V) WALL PANELS.

PROVIDE NEW BULLETIN BOARDS, DIRECTORIES AND NON-LIFE-SAFETY SIGNAGE AS WELL AS ANY RELATED ATTACHMENTS.

PROVIDE AND INSTALL NEW ALUMINUM BULLETIN BOARD (V) WALL PANELS.

PROVIDE AND INSTALL NEW ALUMINUM BULLETIN BOARD (V) WALL PANELS.

PROVIDE NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PROVIDE NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PROVIDE NEW STEEL DOOR IN EXISTING FRAME. PRIME AND PAINT AS SCHEDULED.

PREPARE EXISTING CONCRETE WALL TO RECEIVE NEW INFRASTRUCTURE LOCATED BEHIND IT THAT IS NOT SCHEDULED TO REMAIN. PREPARE EXISTING CONCRETE WALL TO RECEIVE NEW INFRASTRUCTURE LOCATED BEHIND IT THAT IS NOT SCHEDULED TO REMAIN.
REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

STAIR #2
ELEV. #1
ELEV. #2
STAIR #1
SHAFT #1

UP
DN
UP
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A. REFLECTED CEILING PLAN AT MAIL ROOM

REFLECTED CEILING KEYNOTES:
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LIGHT FIXTURE SCHEDULE:
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REFER TO SHEET T2 FOR GENERAL RCP NOTES.

REFER TO SHEET T1 FOR COMPLETE LEGEND.

FINISH PLAN
SCALE: 1/8" = 1'-0"

FINISH SCHEDULE:

FINISH KEYNOTES:
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FINISH KEYNOTES:
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FINISH SCHEDULE:

FINISH KEYNOTES:
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FINISH SCHEDULE:

FINISH KEYNOTES:
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FINISH SCHEDULE:
EXISTING TELECOMMUNICATION EQUIPMENT WILL REMAIN IN ROOM 205 DURING CONSTRUCTION. COORDINATE WITH CAMPUS FACILITIES PERSONNEL WHICH DIRECTORIES OR BULLETIN BOARDS SHOULD BE SALVAGED FOR REINSTALLATION ELSEWHERE ON THE CAMPUS AND WHICH SHOULD BE REMOVED FROM THE SITE.

REMOVE AND SALVAGE ALL EXISTING WINDOW COVERINGS AS WELL AS ANY ATTACHMENTS, VALANCES OR OPERATING DEVICES. REMOVE OR RE-ROUTE ALL EXISTING EXPOSED CONDUITS, CABLES, PULL STATIONS AND ELECTRICAL OR TELECOMMUNICATION DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

PROVIDE NEW 3' FULL-HEIGHT SIDELITE.

PROVIDE NEW POCKETED DOUBLE DOOR AS INDICATED AND DETAILED.

PROVIDE NEW FLUSH-OVERLAY, PLYWOOD CORE, PLASTIC LAMINATE CABINETS WITH 4" SPLASH, TOE-KICK AND MELAMINE LINED OR WITHIN THE PLUMBING CAVITY BEHIND THE FOUNTAIN AND ACCESSIBLE FROM THE ADJACENT RESTROOM.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS SHEET A5.1.

PROVIDE NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, AND ELEVATION ON A5.2.

PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER STANDARD SPECIFICATIONS AND ARE IN GOOD, CLEANABLE CONDITION. NOTIFY ARCHITECT IF EXISTING PLUMBING RISER LOCATIONS CAN NOT ACCOMMODATE THE PROPOSED RESTROOM RECONFIGURATION. RETAIN ALL EXISTING TELECOMMUNICATION RISERS AND DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

REMOVE OR RE-ROUTE THE PLUMBING RISER ABOVE THE CEILING ON TWO FLOOR LEVELS TO ACCOMMODATE THE MODIFY THE EXISTING RESTROOM PLUMBING WALLS AND CHASES AS INDICATED TO ACCOMMODATE THE NEW ACCESSIBLE FIXTURE.

REMOVE AND SALVAGE EXISTING FIRE HOSE CABINET, WHERE INDICATED ON FLOORS 3 AND 8 ONLY. PROVIDE NEW CONCRETE SHEET A5.1.

REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR OR WITHIN THE SITE.

UNLESS NO WORK IS INDICATED, REMOVE EXISTING DOORS AND FRAMES WHERE INDICATED. SALVAGE DOORS, FRAMES AND RELATED HARDWARE THAT ARE CLEAN AND ELEVATION ON A5.2.

PROVIDE NEW 3' FULL-HEIGHT SIDELITE.

PROVIDE NEW CUTOFF TANKED STEEL PLUMBER WHICH IS REQUIRED. ALSO SEE A6.0.

PROVIDE NEW 3' FULL-HEIGHT SIDELITE.

PROVIDE NEW RATED PARTITION

REPAIR THE EXISTING DOOR FRAME AS INDICATED.

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REPAIR THE EXISTING DOOR FRAME AS INDICATED.
NOTE: REFER TO DRAWING SET BY CHEVRON ENERGY SOLUTIONS FOR MECHANICAL, ELECTRICAL, LIGHTING AND CEILING SCOPES OF WORK ON THIS FLOOR.

FINISH PLAN KEYNOTES:

1. PREPARE ALL EXISTING AND NEW WALLS, DOORS, FRAMES AND CEILINGS TO RECEIVE NEW PAINT FINISH. ADEQUATELY PROTECT ALL AREAS, LIGHTING AND HARDWARE NOT SCHEDULED TO RECEIVE PAINT.

2. PROVIDE NEW RESILIENT FLOORING F-1 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TO ADJACENT FLOOR FINISHES.

3. PROVIDE NEW CARPET CPT-1 AND CPT-2 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TS-1 TO ADJACENT FLOOR FINISHES.

4. PROVIDE NEW CONTINUOUS SOLAR WINDOW FILM AT ALL EAST AND WEST FACING WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8 PER FINISH SCHEDULE.

5. PROVIDE NEW CAMPUS STANDARD, MECHOSHADE MESH ROLLER SHADES AT ALL WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. AT MEETING AND CONFERENCE ROOMS, ADDITIONALLY PROVIDE SALVAGED OR NEW HEAVY BLACK-OUT CURTAINS TO MATCH THOSE SALVAGED FROM CONFERENCE ROOM #801.

6. PROVIDE NEW RUBBER STAIR TREADS AND MATCHING RUBBER FLOORING AT STAIR LANDINGS CONTINUOUSLY AT STAIRS NO. 1 AND NO. 2 AS INDICATED. PROVIDE CONTRASTING STRIPING AT TOP AND BOTTOM TREADS AS REQUIRED TO MEET CURRENT CODE.

7. PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

8. PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. AARCO PRODUCTS, INC. MODEL #ADC2418H.

9. PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.

10. SALVAGE AND RE-INSTALL RESTROOM DOOR AND JAMB SIGNAGE WHEN WORK IS COMPLETE. REFER TO DETAILS 8 & 9 ON SHEET A6.1.

11. PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN PER ELEVATIONS ON SHEET A5.2.

12. PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.

13. PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.

14. PAINT ALL WALLS AND CEILINGS P-1 UNLESS OTHERWISE NOTED.

15. PAINT CONCRETE CORE WALLS AND SHORT WALLS IN STAIRS AT FLOOR LANDINGS P-2 AS INDICATED.

16. PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.

17. PAINT ALL DOOR FRAMES P-4.

18. PAINT ELEVATOR DOORS P-5.

19. PAINT STAIR AND SMOKE TOWER DOORS P-3.

20. PAINT OFFICE AND CONFERENCE ROOM DOORS P-6. NOTE A DIFFERENT COLOR FOR EACH FLOOR.

21. PAINT RESTROOM CEILINGS PER SCHEDULE ON SHEET A6.0.

22. PAINT STAIR WALLS AND CEILINGS P-1 (EXCEPT SHORT FLOOR LANDING ACCENT WALL) .

23. PAINT RESTROOM AND JANITOR DOORS P-3.

24. PROVIDE PLASTIC LAMINATE CABINETS WITH WHITE MELAMINE INTERIORS WHERE INDICATED AND AS SCHEDULED. PROVIDE SOLID SURFACE COUNTERTOPS WHERE INDICATED ON ELEVATIONS.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.
ACCOMMODATE NEW SIGNAGE. PATCH WALL WITH CONCRETE PATCH TO MATCH ADJACENT FINISH.

AT FLOORS 1-8, REPLACE EXISTING ELEVATOR CALL BUTTON ESCUTCHEONS WITH STANDARD HEIGHT ESCUTCHEONS TO CAPABLE OF MAINTAINING THE EXISTING FLOOR ASSEMBLY RATING.

CONNECTION AT THE NEW LOCATION. SEAL THE EXISTING ABANDONED FLOOR AND CEILING CORES WITH RATED FIRE-STOPPING.

PROVIDE AND INSTALL TWO (2) NEW SEMI-RECESSED FIRE EXTINGUISHER CABINETS AT LOCATIONS INDICATED. SEE SPECIFICATIONS.

REMOVE AND SALVAGE EXISTING FIRE HOSE CABINET, WHERE INDICATED ON FLOORS 3 AND 8 ONLY. PROVIDE NEW CONCRETE.

INTERIORS AND SHELVES, WHERE INDICATED IN ROOMS #651, #751 AND #808. PROVIDE 3-1/2" BRUSHED STAINLESS STEEL WIRE PULLS.

PROVIDE NEW FLUSH-OVERLAY, PLYWOOD CORE, PLASTIC LAMINATE CABINETS WITH 4" SPLASH, TOE-KICK AND MELAMINE LINED.

REMOVE EXISTING GYPSUM BOARD PARTITIONS WHERE INDICATED - AS WELL AS ANY PLUMBING, ELECTRICAL, TELECOMMUNICATION OR WITHIN THE PLUMBING CAVITY BEHIND THE FOUNTAIN AND ACCESSIBLE FROM THE ADJACENT RESTROOM.

SYSTEM (HAWS MODEL 6426) FOR THE DRINKING FOUNTAIN WATER TO BE LOCATED EITHER INSIDE THE DRINKING FOUNTAIN ITSELF.

STAINLESS STEEL TUBE WING WALLS ON EITHER SIDE OF THE DRINKING FOUNTAIN AS DETAILED. INSTALL A WATER FILTRATION.

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RELOCATE SALVAGED FIRE HOSE CABINET AS INDICATED. SEE PLUMBING DRAWINGS.

NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR DIRECTORIES OR BULLETIN BOARDS SHOULD BE SALVAGED FOR REINSTALLATION ELSEWHERE ON CAMPUS BY OTHERS AND WHICH SHOULD BE REMOVED FROM THE SITE.

CONCRETE SUB-FLOOR AS NEEDED TO RECEIVE NEW FINISH FLOORING AS SCHEDULED. CAREFULLY REMOVE VINYL OR RUBBER.

PREPARE (SAND SMOOTH) THE ENTRY DOORS AND FRAMES AT RESTROOMS AND STAIRWELLS, AS NEEDED. ENSURE THAT STEEL.

PREPARE ALL EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR.

PROVIDE NEW LIGHTING AND OCCUPANCY SENSOR CONTROLS AND PATCH THE CEILING.

SALVAGED TOILET ACCESSORIES THAT MATCH THE SCHEDULED CAMPUS STANDARD SPECIFICATIONS OR PROVIDE NEW AS.

PLUMBING WALL SHEATHING WITHIN THE EXISTING RESTROOMS. SALVAGE ANY TOILET ACCESSORIES THAT MEET THE DISTRICT.

REMOVE ALL EXISTING PLUMBING FIXTURES, PARTITIONS, ACCESSORIES, LIGHT FIXTURES, SIGNAGE, CERAMIC TILE FINISH AND.

THE EXISTING GLASS AND FRAMES PRIOR TO PLACING NEW WINDOW FILM.

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

EXISTING JAMB

REPORT TO SHEET T1 FOR COMPLETE LEGEND.

REFER SHEET T1 FOR WALL LEGEND AND SHEET T2 FOR GENERAL CONSTRUCTION NOTES.

SCALE: 1/8" = 1'-0"
NOTE:
REFER TO DRAWING SET BY CHEVRON
ENERGY SOLUTIONS FOR MECHANICAL,
ELECTRICAL, LIGHTING AND CEILING
SCOPES OF WORK ON THIS FLOOR.

FINISH PLAN KEYNOTES:
PREPARE ALL EXISTING AND NEW WALLS, DOORS, FRAMES AND CEILINGS TO RECEIVE NEW PAINT FINISH. ADEQUATELY PROTECT ALL AREAS, LIGHTING AND HARDWARE NOT SCHEDULED TO RECEIVE PAINT.

PROVIDE NEW RESILIENT FLOORING F-1 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TO ADJACENT FLOOR FINISHES.

PROVIDE NEW CARPET CPT-1 AND CPT-2 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TO ADJACENT FLOOR FINISHES.

PROVIDE NEW CONTINUOUS SOLAR WINDOW FILM AT ALL EAST AND WEST FACING WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8 PER FINISH SCHEDULE.

PROVIDE NEW CAMPUS STANDARD, MECHOSHADE MESH ROLLER SHADES AT ALL WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. AT MEETING AND CONFERENCE ROOMS, ADDITIONALLY PROVIDE SALVAGED OR NEW HEAVY BLACK-OUT CURTAINS TO MATCH THOSE SALVAGED FROM CONFERENCE ROOM #801.

PROVIDE NEW RUBBER STAIR TREADS AND MATCHING RUBBER FLOORING AT STAIR LANDINGS CONTINUOUSLY AT STAIRS NO. 1 AND NO. 2 AS INDICATED. PROVIDE CONTRASTING STRIPING AT TOP AND BOTTOM TREADS AS REQUIRED TO MEET CURRENT CODE.

PROVIDE NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.

SALVAGE AND RE-INSTALL RESTROOM DOOR AND JAMB SIGNAGE WHEN WORK IS COMPLETE. REFER TO DETAILS 8 & 9 ON SHEET A6.1

FINISH SCHEDULE

PAINT ALL WALLS AND CEILINGS P-1 UNLESS OTHERWISE NOTED.

PAINT CONCRETE CORE WALLS AND SHORT WALLS IN STAIRS AT FLOOR LANDINGS P-2 AS INDICATED.

PAINT ALL DOOR FRAMES P-4.

PAINT ELEVATOR DOORS P-5

PAINT STAIR AND SMOKE TOWER DOORS P-3.

PAINT OFFICE AND CONFERENCE ROOM DOORS P-6. NOTE A DIFFERENT COLOR FOR EACH FLOOR.

PAINT RESTROOM CEILINGS PER SCHEDULE ON SHEET A6.0.

PAINT STAIR WALLS AND CEILINGS P-1 (EXCEPT SHORT FLOOR LANDING ACCENT WALL) .

PAINT RESTROOM AND JANITOR DOORS P-3.

PROVIDE PLASTIC LAMINATE CABINETS WITH WHITE MELAMINE INTERIORS WHERE INDICATED AND AS SCHEDULED. PROVIDE SOLID SURFACE COUNTERTOPS WHERE INDICATED ON ELEVATIONS.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

FINISH PLAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.

PAINT ALL LOUVER FRAMES P-4.

PAINT ALL LIGHT FIXTURES P-3.

PAINT METAL AND STEEL FRAMES P-4.

PAINT ALL MIRROR REFLECTIONS P-4.

PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.

PAINT ALL DOOR FRAMES P-4.

PAINT ELEVATOR DOORS P-5

PAINT STAIR AND SMOKE TOWER DOORS P-3.

PAINT OFFICE AND CONFERENCE ROOM DOORS P-6. NOTE A DIFFERENT COLOR FOR EACH FLOOR.

PAINT RESTROOM CEILINGS PER SCHEDULE ON SHEET A6.0.

PAINT STAIR WALLS AND CEILINGS P-1 (EXCEPT SHORT FLOOR LANDING ACCENT WALL) .

PAINT RESTROOM AND JANITOR DOORS P-3.

PROVIDE PLASTIC LAMINATE CABINETS WITH WHITE MELAMINE INTERIORS WHERE INDICATED AND AS SCHEDULED. PROVIDE SOLID SURFACE COUNTERTOPS WHERE INDICATED ON ELEVATIONS.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.

PAINT ALL LOUVER FRAMES P-4.

PAINT ALL LIGHT FIXTURES P-3.

PAINT METAL AND STEEL FRAMES P-4.

PAINT ALL MIRROR REFLECTIONS P-4.

PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.
WATER FILTRATION SYSTEM.

OFFICE MEN CORRIDOR

ACCOMODATE NEW SIGNAGE. PATCH WALL WITH CONCRETE PATCH TO MATCH ADJACENT FINISH.

AT FLOORS 1-8, REPLACE EXISTING ELEVATOR CALL BUTTON ESCUTCHEONS WITH STANDARD HEIGHT ESCUTCHEONS TO CAPABLE OF MAINTAINING THE EXISTING FLOOR ASSEMBLY RATING.

CONNECTION AT THE NEW LOCATION. SEAL THE EXISTING ABANDONED FLOOR AND CEILING CORES WITH RATED FIRE-STOPPING.

AREA NOT IN CONTRACT - NO WORK

PROVIDE AND INSTALL TWO (2) NEW SEMI-RECESSED FIRE EXTINGUISHER CABINETS AT LOCATIONS INDICATED. SEE SPECIFICATIONS

AND SINK CABINET WITH INTEGRATED TOE-KICK AND CONTINUOUS FINISH FLOORING INSIDE THE CABINET. REFER TO ELEVATIONS ON

1&2/A6.1. MODIFY PLUMBING LINES AS NEEDED FOR THE NEW FOUNTAINS. IF NEW FOUNTAIN DOES NOT ENTIRELY CONCEAL THE

STAINLESS STEEL TUBE WING WALLS ON EITHER SIDE OF THE DRINKING FOUNTAIN AS DETAILED. INSTALL A WATER FILTRATION

SYSTEM (HAWS MODEL 6426) FOR THE DRINKING FOUNTAIN WATER TO BE LOCATED EITHER INSIDE THE DRINKING FOUNTAIN ITSELF

OR WITHIN THE PLUMBING CAVITY BEHIND THE FOUNTAIN AND ACCESSIBLE FROM THE ADJACENT RESTROOM.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

PREPARE (SAND SMOOTH) THE ENTRY DOORS AND FRAMES AT RESTROOMS AND STAIRWELLS, AS NEEDED. ENSURE THAT STEEL

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW FLUSH-OVERLAY, PLYWOOD CORE, PLASTIC LAMINATE CABINETS WITH 4" SPLASH, TOE-KICK AND MELAMINE LINED

OR WITHIN THE PLUMBING CAVITY BEHIND THE FOUNTAIN AND ACCESSIBLE FROM THE ADJACENT RESTROOM.

PROVIDE NEW FLUSH-OVERLAY, PLYWOOD CORE, PLASTIC LAMINATE CABINETS WITH 4" SPLASH, TOE-KICK AND MELAMINE LINED

AND SERVICEABLE FOR RE-USE.

PREPARE (SAND SMOOTH) THE ENTRY DOORS AND FRAMES AT RESTROOMS AND STAIRWELLS, AS NEEDED. ENSURE THAT STEEL

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.

PROVIDE NEW HIGH-LOW DRINKING FOUNTAIN AND RAILINGS AT THE LOCATION OF THE FOUNTAIN THAT WAS REMOVED. SEE DETAILS

UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR

WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

RE-USE AND REINSTALLED WHEN THE WORK IS COMPLETED.
NOTE:
REFER TO DRAWING SET BY CHEVRON ENERGY SOLUTIONS FOR MECHANICAL, ELECTRICAL, LIGHTING AND CEILING SCOPES OF WORK ON THIS FLOOR.

FINISH PLAN KEYNOTES:

1. PROGRESS ALL EXISTING AND NEW WOOD, PLASTER AND CEILING SURFACES PRIOR TO PAINT.  SECURELY PROTECT ALL AREAS, LIGHTING AND HARDWARE NOT SCHEDULED TO RECEIVE PAINT.
2. PROVIDE NEW KITCHEN CABINETS AND HARDWARE AT COUNTERS, CHRISTMAS BPr AND BASES AS INDICATED.  PROVIDE ALTERNATING TRANSITIONS BETWEEN KITCHEN AND NON KITCHEN AREAS.
3. PROVIDE NEW COUNTERS AND BAR-TOPS FOR RESTROOM CABINETS ACCORDING TO DETAIL 4/A9.3 AND SHEET A6.0.
4. PROVIDE NEW CABINET TOPS AND BAR-TOPS FOR RESTROOM AND JANITOR CABINETS ACCORDING TO DETAIL 4/A9.3 AND SHEET A6.0.
5. PROVIDE ALL GUARDING AND METAL HANDRAILS AS SCHEDULED.
6. REFERENCE AMERICAN HEARING AID DEVICE HANGING LOCATION ON SHEET A7.0 FOR ADDITIONAL ACCESS TO WIRELESS PHONE.
7. PROVIDE NEW ACCESSIBLE SINK CABINET TO MATCH EXISTING ADJACENT CABINET, PER DETAIL 11/A9.3 AND REFINISH EXISTING OAK CABINET FACES. PROVIDE NEW SOLID SURFACE COUNTERTOP.
8. PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.
9. SALVAGE AND RE-INSTALL RESTROOM DOOR AND JAMB SIGNAGE WHEN WORK IS COMPLETE. REFER TO DETAILS 8 & 9 ON SHEET A6.1
10. PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN PER ELEVATIONS ON SHEET A5.2.
11. PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.
12. PROVIDE ALL HARDWARE AND METAL HANDRAILS COMPLETELY VISUALLY COMPLEMENTARY TO THE METAL. TYP. USE REBAR EXCEPTED GAL.
13. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
14. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
15. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
16. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
17. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
18. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
19. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
20. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
21. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
22. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
23. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.
24. PROVIDE NEW ACCESSIBLE BATHROOM CABINETS AS SCHEDULED.

FINISH SCHEDULE:

LEGEND

AREA NOT IN CONTRACT - NO WORK

REFER SHEET T1 FOR COMPLETE LEGEND.
PROVIDE NEW COMPUTER LAB WORK SURFACE AND CENTRAL WORK COUNTER AT CORNER OFFICE AS INDICATED.

WATER FILTRATION SYSTEM.

EXISTING TELECOMMUNICATIONS EQUIPMENT WILL REMAIN IN ROOM 505 DURING CONSTRUCTION. COORDINATE WITH CAMPUS ACOMMODATE NEW SIGNAGE. PATCH WALL WITH CONCRETE PATCH TO MATCH ADJACENT FINISH.

CAPABLE OF MAINTAINING THE EXISTING FLOOR ASSEMBLY RATING.

AREA NOT IN CONTRACT - NO WORK

PROVIDE AND INSTALL TWO (2) NEW SEMI-RECESS FIRE EXTINUISHER CABINETS AT LOCATIONS INDICATED. SEE SPECIFICATIONS SHEET A5.1.

REPLACE LIGHT FIXTURES AS NEEDED AND RE-ROUTE THE PLUMBING RISER ABOVE THE CEILING ON TWO FLOOR LEVELS TO ACCOMMODATE THE FIRE EXTINGUISHER CABINETS.

SEE DET. 12/A9.4 SHEET A5.1.

CLG. HT. NON RATED PARTITION

AND SINK CABINET WITH INTEGRATED TOE-KICK AND CONTINUOUS FINISH FLOORING INSIDE THE CABINET. REFER TO ELEVATIONS ON ALL CABINETS AND DRAWERS, AND WHERE SHOWN, PROVIDE A 16" DEEP MICROWAVE CUBBY AND/OR A FULLY ACCESSIBLE SINK OR WITHIN THE PLUMBING CAVITY BEHIND THE FOUNTAIN AND ACCESSIBLE FROM THE ADJACENT RESTROOM.

SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

EXISTING GLASS AND FRAMES PRIOR TO PLACING NEW WINDOW FILM.

THE EXISTING WALL ACCESS PANELS SHOWN TO REMAIN. ALSO SEE A6.0.

REMOVE EXISTING SOLAR WINDOW FILM (GENERALLY APPLIED TO INTERIOR SIDE OF NON-NORTH FACING WINDOWS) AND CLEAN WHERE THE PREVIOUS LIGHT FIXTURE(S) WERE REMOVED.

CLEANED, UNDAMAGED, REMOVE ALL EXISTING HANGERS AND THEIR HARDWARE. SALVAGE DOORS, FRAMES AND RELATED HARDWARE THAT ARE CLEAN AND SERVICEABLE. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR USE AND REINSTALLATION IN THE CURTAIN TRACKS.

EXISTING WHENEVER EXISTING IS NOT CLEANABLE AND SERVICEABLE. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR USE AND REINSTALLATION IN THE CURTAIN TRACKS.

EXISTING WHENEVER EXISTING IS NOT CLEANABLE AND SERVICEABLE. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR USE AND REINSTALLATION IN THE CURTAIN TRACKS.

EXISTING WHENEVER EXISTING IS NOT CLEANABLE AND SERVICEABLE. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR USE AND REINSTALLATION IN THE CURTAIN TRACKS.

EXISTING WHENEVER EXISTING IS NOT CLEANABLE AND SERVICEABLE. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR USE AND REINSTALLATION IN THE CURTAIN TRACKS.
PROVIDE ALL EXISTING AND NEW WALLS, DOORS, FRAMES AND CEILINGS TO RECEIVE NEW PAINT FINISH. ADEQUATELY PROTECT ALL AREAS, LIGHTING AND HARDWARE NOT SCHEDULED TO RECEIVE PAINT.

PROVIDE NEW RESILIENT FLOORING F-1 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TO ADJACENT FLOOR FINISHES.

PROVIDE NEW CARPET CPT-1 AND CPT-2 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TS-1 TO ADJACENT FLOOR FINISHES.

PROVIDE NEW CONTINUOUS SOLAR WINDOW FILM AT ALL EAST AND WEST FACING WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8 PER FINISH SCHEDULE.

PROVIDE NEW CAMPUS STANDARD, MECHOSHADE MESH ROLLER SHADES AT ALL WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. AT MEETING AND CONFERENCE ROOMS, ADDITIONALLY PROVIDE SALVAGED OR NEW HEAVY BLACK-OUT CURTAINS TO MATCH THOSE SALVAGED FROM CONFERENCE ROOM #801.

PROVIDE NEW RUBBER STAIR TREADS AND MATCHING RUBBER FLOORING AT STAIR LANDINGS CONTINUOUSLY AT STAIRS NO. 1 AND NO. 2 AS INDICATED. PROVIDE CONTRASTING STRIPING AT TOP AND BOTTOM TREADS AS REQUIRED TO MEET CURRENT CODE.

ALTERNATE #3
DELETE RUBBER STAIR Treads AND LANDING FLOORS FROM THE SCOPE OF WORK.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. AARCO PRODUCTS, INC. MODEL #ADC2418H.

PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.

SALVAGE AND RE-INSTALL RESTROOM DOOR AND JAMB SIGNAGE WHEN WORK IS COMPLETE. REFER TO DETAILS 8 & 9 ON SHEET A6.1.

PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN.

PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.

PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.

PAINT ALL WALLS AND CEILINGS P-1 UNLESS OTHERWISE NOTED.

PAINT CONCRETE CORE WALLS AND SHORT WALLS IN STAIRS AT FLOOR LANDINGS P-2 AS INDICATED.

PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.

PAINT ALL DOOR FRAMES P-4.

PAINT ELEVATOR DOORS P-5

PAINT STAIR AND SMOKE TOWER DOORS P-3.

PAINT OFFICE AND CONFERENCE ROOM DOORS P-6. NOTE A DIFFERENT COLOR FOR EACH FLOOR.

PAINT RESTROOM CEILINGS PER SCHEDULE ON SHEET A6.0.

PAINT STAIR WALLS AND CEILINGS P-1 (EXCEPT SHORT FLOOR LANDING ACCENT WALL) .

PAINT ALL WALLS AND FRAMES P-8 EXCEPT AS NOTED ABOVE.

PROVIDE PLASTIC LAMINATE CABINETS WITH WHITE MELAMINE INTERIORS WHERE INDICATED AND AS SCHEDULED. PROVIDE SOLID SURFACE COUNTERTOPS WHERE INDICATED ON ELEVATIONS.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

REFER TO SHEET T1 FOR COMPLETE LEGEND.
WATER FILTRATION SYSTEM.

OFFICE

AT FLOORS 1-8, REPLACE EXISTING ELEVATOR CALL BUTTON ESCUTCHEONS WITH STANDARD HEIGHT ESCUTCHEONS TO CAPABLE OF MAINTAINING THE EXISTING FLOOR ASSEMBLY RATING.

AREA NOT IN CONTRACT - NO WORK

PROVIDE AND INSTALL TWO (2) NEW SEMI-RECESSED FIRE EXTINGUISHER CABINETS AT LOCATIONS INDICATED. SEE SPECIFICATIONS

REMOVE AND SALVAGE EXISTING FIRE HOSE CABINET, WHERE INDICATED ON FLOORS 3 AND 8 ONLY. PROVIDE NEW CONCRETE SEE DET. 12/A9.4 SHEET A5.1.

(N) CLG. HT. NON RATED PARTITION

REMOVE EXISTING DOORS AND FRAMES WHERE INDICATED. SALVAGE DOORS, FRAMES AND RELATED HARDWARE THAT ARE CLEAN INTERIORS AND SHELVES, WHERE INDICATED IN ROOMS #651, #751 AND #808. PROVIDE 3-1/2" BRUSHED STAINLESS STEEL WIRE PULLS

PROVIDE NEW FLUSH-OVERLAY, PLYWOOD CORE, PLASTIC LAMINATE CABINETS WITH 4" SPLASH, TOE-KICK AND MELAMINE LINED DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

CONSTRUCTION KEYNOTES:

DEMOLITION KEYNOTES:

REFER TO SHEET T1 FOR WALL LEGEND AND SHEET T2 FOR GENERAL CONSTRUCTION NOTES.

REFER TO SHEET T2 FOR GENERAL DEMOLITION NOTES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

SCALE: 1/8" = 1'-0"
NOTE:
REFER TO DRAWING SET BY CHEVRON ENERGY SOLUTIONS FOR MECHANICAL, ELECTRICAL, LIGHTING AND CEILING SCALES OF WORK ON THIS FLOOR.

### FINISH PLAN KEYNOTES:

1. Prepare all existing and new walls, doors, frames and ceilings to receive new paint finish. Adequately protect all areas, lighting and hardware not scheduled to receive paint.
2. Provide new resilient flooring F-1 with straight rubber wall base RB-1 where indicated with appropriate transition strips to adjacent floor finishes.
3. Provide new carpet CPT-1 and CPT-2 with straight rubber wall base RB-1 where indicated with appropriate transition strips to adjacent floor finishes.
4. Provide new continuous solar window film at all east and west facing windows between and including floors 2 through 8 per finish schedule.
5. Provide new campus standard, Mechoshade mesh roller shades at all windows between and including floors 2 through 8. Additionally, provide salvaged or new heavy black-out curtains to match those salvaged from Conference Room #801.
6. Provide new rubber stair treads and matching rubber flooring at stair landings continuously at Stairs No. 1 and No. 2 as indicated. Provide contrasting striping at top and bottom treads as required to meet current code.

### FINISH SCHEDULE:

- **P-1**: Wall accents of bulletin boards and bulletin walls are to be painted.
- **P-2**: Paint all door frames.
- **P-3**: Paint stair and smoke tower doors.
- **P-4**: Paint all door frames.
- **P-5**: Paint elevator doors.
- **P-6**: Paint office and conference room doors.
- **P-7**: Paint wall accents at bulletin boards, see elevations on sheet A5.2.
- **P-8**: Paint stair walls and ceilings (except short floor landing accent wall).
- **P-9**: Paint restroom and janitor doors.
- **P-10**: Paint concrete core walls and short walls in stair landings as indicated.

### LEGEND

- **NOT RATED PARTITION**
- **REFER SHEET T1 FOR COMPLETE LEGEND**
- **FINISH PLAN SCALE: 1/8" = 1'-0"**

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**Administrative Tower:**

- **Sixth Floor:**
  - **FINISH PLAN**
  - **AREA NOT IN CONTRACT - NO WORK**
  - **REFER TO SHEET T2 FOR GENERAL FINISH NOTES.**
  - **NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.**
  - **PAINT ALL WALLS AND CEILINGS P-1 UNLESS OTHERWISE NOTED.**
  - **PAINT CONCRETE CORE WALLS AND SHORT WALLS IN STAIR LANDINGS AS INDICATED.**
  - **PAINT WALL ACCENTS P-7 AT BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.**
  - **PAINT ALL DOOR FRAMES P-4.**
  - **PAINT ELEVATOR DOORS P-5.**
  - **PAINT OFFICE AND CONFERENCE ROOM DOORS P-6.**

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**AARCO PRODUCTS, INC. MODE #ADC2418H.**

**PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.**

**PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN PER ELEVATIONS ON SHEET A5.2.**

**PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON SHEET A7.0 AND SIGNAGE DETAILS ON SHEET A7.1.**

**PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON SHEET A7.0.**

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**CONSTRUCTION DOCUMENTS:**

- **FINISH PLAN, MECHANICAL, ELECTRICAL, LIGHTING AND CEILING SET.**

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**PROJECT:**

- **ADMINISTRATIVE TOWER**

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**PERMIT SET**

- **6-27-2011**

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**PLAN:**

- **A2.6b**
DELETE SCOPE OF WORK RELATED TO NEW PORTHOLES.

WATER FILTRATION SYSTEM.

DEAN'S

ACCOMODATE NEW SIGNAGE. PATCH WALL WITH CONCRETE PATCH TO MATCH ADJACENT FINISH.

AT FLOORS 1-8, REPLACE EXISTING ELEVATOR CALL BUTTON ESCUTCHEONS WITH STANDARD HEIGHT ESCUTCHEONS TO CAPABLE OF MAINTAINING THE EXISTING FLOOR ASSEMBLY RATING.

PROVIDE AND INSTALL TWO (2) NEW SEMI-RECESSED FIRE EXTINGUISHER CABINETS AT LOCATIONS INDICATED. SEE SPECIFICATIONS SHEET A5.2.

REMOVE EXISTING DOORS AND FRAMES WHERE INDICATED. SALVAGE DOORS, FRAMES AND RELATED HARDWARE THAT ARE CLEAN INTERIORS AND SHELVES, WHERE INDICATED IN ROOMS #651, #751 AND #808. PROVIDE 3-1/2" BRUSHED STAINLESS STEEL WIRE PULLS AND FRAME ASSEMBLY FOR SMOOTH CLOSING OPERATION AND POSITIVE LATCHING. ADJUST OR REPLACE HARDWARE TO MATCH FRAME ASSEMBLY.

REMOVE EXISTING CONNECTING DOORS AND FRAMES BETWEEN OFFICES WHERE INDICATED AND INFILL THE OPENINGS WITH REMOVE ALL EXISTING PLUMBING WALL SHEATHING WITHIN THE EXISTING RESTROOMS. SALVAGE ANY TOILET ACCESSORIES THAT MEET THE DISTRICT STANDARD SPECIFICATIONS AND ARE IN GOOD, CLEANABLE CONDITION. NOTIFY ARCHITECT IF EXISTING PLUMBING RISER LOCATIONS CANNOT ACCOMMODATE THE PROPOSED RESTROOM RECONFIGURATION. RETAIN ALL EXISTING TELECOMMUNICATION RISERS AND FACILITIES PERSONNEL WHICH DIRECTORIES OR BULLETIN BOARDS SHOULD BE SALVAGED FOR REINSTALLATION ELSEWHERE ON CAMPUS.

PLACE ALL EXISTING ELECTRICAL FIXTURES, CEILING LIGHTS AND WALL SCONCES EXCEPT THOSE INDICATED FOR REMOVAL WHERE INDICATED. SALVAGE ALL EXISTING WINDOW COVERINGS AS WELL AS ANY ATTACHMENTS, VALANCES OR OPERATING DEVICES. REMOVE ALL EXISTING SOLAR WINDOW FILM (GENERALLY APPLIED TO INTERIOR SIDE OF NON-NORTH FACING WINDOWS) AND CLEAN LARGE-SCALE DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

REMOVE AND SALVAGE ALL EXISTING WINDOW COVERINGS AS WELL AS ANY ATTACHMENTS, VALANCES OR OPERATING DEVICES. REMOVE ALL EXISTING PLUMBING FIXTURES, PARTITIONS, ACCESSORIES, LIGHT FIXTURES, SIGNAGE, CERAMIC TILE FINISH AND UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR WALL BASE, WHERE FOUND, TO MINIMIZE DAMAGE TO EXISTING WALLS THAT ARE SHOWN TO REMAIN.

FLOOR CORES AS NEEDED AND RE-ROUTE THE PLUMBING RISER ABOVE THE CEILING ON TWO FLOOR LEVELS TO ACCOMMODATE THE STAINLESS STEEL TUBE WING WALLS ON EITHER SIDE OF THE DRINKING FOUNTAIN AS DETAILED. INSTALL A WATER FILTRATION DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

APPLY THE WATER FILTERS AS DEPICTED ON SHEET A5.1.

REPLACE OR RE-ROUTE ALL EXISTING EXPOSED CONDUITS, CABLES, PULL STATIONS AND ELECTRICAL OR TELECOMMUNICATIONS NEWS WITHIN THE EXISTING RESTROOMS. SALVAGE ANY TOILET ACCESSORIES THAT MATCH THE SCHEDULED CAMPUS STANDARD SPECIFICATIONS OR PROVIDE NEW AS INDICATED.

REPLACE OR RE-ROUTE THE ELECTRICAL SERVICES FOR THE NEW FOUNTAIN. IF NEW FOUNTAIN DOES NOT ENTIRELY CONCEAL THE EXISTING RESTROOMS, MATCHING STUD WALL CONSTRUCTION.

DELETE SHEET A6.1. MODIFY PLUMBING LINES AS NEEDED FOR THE NEW FOUNTAINS. IF NEW FOUNTAIN DOES NOT ENTIRELY CONCEAL THE EXISTING RESTROOMS, MATCHING STUD WALL CONSTRUCTION.

REMOVE ALL EXISTING GYPSUM BOARD PARTITIONS WHERE INDICATED - AS WELL AS ANY PLUMBING, ELECTRICAL, TELECOMMUNICATION SERVICES, AND ELEVATOR CHASES AS NEEDED.

REPLACE EXISTING EXPOSED CONDUITS, CABLES, PULL STATIONS AND ELECTRICAL OR TELECOMMUNICATION SERVICES, AND ELEVATOR CHASES AS NEEDED. INSTALL A WATER FILTRATION DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

ARRANGE THE EXISTING EXHAUST/VENTILATION DEVICES, OR THERMOSTATS THAT EXIST WITHIN THE REMOVED PARTITIONS. REPAIR ADJACENT WALL AND CEILING AREAS TO REMAIN.

REPLACE EXISTING PLUMBING FIXTURES, PARTITIONS, ACCESSORIES, LIGHT FIXTURES, SIGNAGE, CERAMIC TILE FINISH AND UNLESS NO WORK IS INDICATED, REMOVE EXISTING CARPET, PADDING, TACK STRIPS AND RESILIENT FLOORING AND PREPARE/REPAIR WALL BASE, WHERE FOUND, TO MINIMIZE DAMAGE TO EXISTING WALLS THAT ARE SHOWN TO REMAIN.

DELETE ALTERNATE #4

DELETE ALTERNATE #2

DELETE ALTERNATE #1

DELETE ALTERNATE #3

SCALE: 1/8" = 1'-0"
NOTE:
REFER TO DRAWING SET BY CHEVRON ENERGIES FOR MECHANICAL, ELECTRICAL, LIGHTING AND CEILING SCHEDULES OF WORK ON THIS FLOOR.

FINISH PLAN KEYNOTES:
1. PREPARE ALL EXISTING AND NEW WALLS, DOORS, FRAMES AND CEILINGS TO RECEIVE NEW PAINT FINISH. ADEQUATELY PROTECT ALL AREAS, LIGHTING AND HARDWARE NOT SCHEDULED TO RECEIVE PAINT.
2. PROVIDE NEW RESILIENT FLOORING F-1 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TO ADJACENT FLOOR FINishes.
3. PROVIDE NEW CARPET CPT-1 AND CPT-2 WITH STRAIGHT RUBBER WALL BASE RB-1 WHERE INDICATED WITH APPROPRIATE TRANSITION STRIPS TO ADJACENT FLOOR FINishes.
4. PROVIDE NEW CONTINUOUS SOLAR WINDOW FILM AT ALL EAST AND WEST FACING WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8 PER FINISH SCHEDULE.
5. PROVIDE NEW CAMPUS STANDARD, MECHOSHADE MESH ROLLER SHADES AT ALL WINDOWS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. ADDITIONALLY PROVIDE SALVAGED OR NEW HEAVY BLACK-OUT CURTAINS TO MATCH THOSE SALVAGED FROM CONFERENCE ROOM #801.
6. PROVIDE NEW RUBBER STAIR TREADS AND MATCHING RUBBER FLOORING AT STAIR LANDINGS CONTINUOUSLY AT STAIRS NO. 1 AND NO. 2 AS INDICATED. PROVIDE CONTRASTING STRIPING AT TOP AND BOTTOM TREADS AS REQUIRED TO MEET CURRENT CODE.
7. PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.
8. PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.
9. PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.
10. SALVAGE AND RE-INSTALL RESTROOM DOOR AND JAMB SIGNAGE WHEN WORK IS COMPLETE. REFER TO DETAILS 8 & 9 ON SHEET A6.1
11. PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN PER LEVELS 2-8.
12. PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.
13. PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.

FINISH SCHEDULE:
1. PAINT ALL WALLS AND CEILINGS P-1 UNLESS OTHERWISE NOTED.
2. PAINT CONCRETE CORE WALLS AND SHORT WALLS IN STAIRS AT FLOOR LANDINGS P-2 AS INDICATED.

LEGEND:
- REFER TO SHEET T1 FOR COMPLETE LEGEND.
- REFER TO SHEET T2 FOR GENERAL FINISH NOTES.
CONSTRUCTION KEYNOTES:

- REMOVE AND SALVAGE EXISTING FIRE HOSE CABINET, WHERE INDICATED ON FLOORS 3 AND 8 ONLY. PROVIDE NEW CONCRETE WALL RECESS FROM THE ORIGINAL FOUNTAIN, FILL THE WALL RECESS WITH MATCHING CONCRETE AS NEEDED. PROVIDE BRUSHED STAINLESS STEEL TUBE WING WALLS ON EITHER SIDE OF THE DRINKING FOUNTAIN AS DETAILED.
- REMOVE EXISTING DOORS AND FRAMES WHERE INDICATED. SALVAGE DOORS, FRAMES AND RELATED HARDWARE THAT ARE CLEAN AND SERVICEABLE FOR RE-USE.
- PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.
- PROVIDE TILE BACKER-BOARD SHEATHING ON ALL WALLS READY TO RECEIVE THE SCHEDULE TILE FINISH. PROVIDE PREPARED (SAND SMOOTH) THE ENTRY DOORS AND FRAMES AT RESTROOMS AND STAIRWELLS, AS NEEDED. ENSURE THAT STEEL STAINLESS STEEL FRAME SIDELITES ADJACENT TO DOORS AS SHOWN WITH 45 MINUTE RATED GLAZING.
- PROVIDE NEW OR SALVAGED DOORS, FRAMES AND HARDWARE AS INDICATED AND ITEMIZED ON A7.0, DOOR TYPE AND HARDWARE SCHEDULE ON SHEET A7.0.
- PROVIDE NEW LIGHTING AND OCCUPANCY SENSOR CONTROLS AND PATCH THE CEILING WHERE REQUIRED. MODIFY THE EXISTING RESTROOM PLUMBING WALLS AND CHASES AS INDICATED TO ACCOMMODATE THE NEW ACCESSIBLE FIXTURE ARRANGEMENT. PROVIDE NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR NON-STANDARD SPECIFICATIONS OR PROVIDE NEW AS NEEDED.
- PROVIDE NEW STEEL FRAME SIDELITES ADJACENT TO DOORS AS SHOWN WITH 45 MINUTE RATED GLAZING. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER STANDARD SPECIFICATIONS AND ARE IN GOOD, CLEANABLE CONDITION. NOTIFY ARCHITECT IF EXISTING PLUMBING RISER LOCATIONS CAN NOT ACCOMMODATE THE PROPOSED RESTROOM RECONFIGURATION. RETAIN ALL EXISTING TELECOMMUNICATION RISERS AND WALL BASE, WHERE FOUND, TO MINIMIZE DAMAGE TO EXISTING WALLS THAT ARE SHOWN TO REMAIN.
- PROVIDE NEW WOOD-LINE-CLEAR WINDOWS AS DETAILED. MODIFY EXISTING AND NEW DOORS BETWEEN OFFICES AND LOBBY CORRIDORS AS NEEDED FOR NEW PORTHOLES.
- PROVIDE NEW CEILING-HEIGHT NON-RATED PARTITIONS AND DOOR INFILL AS INDICATED. REFER TO SYMBOL LEGEND ON SHEET T1.

DESTRUCTION PLAN:

- REMOVE AND SALVAGE EXISTING FIRE HOSE CABINET, WHERE INDICATED ON FLOORS 3 AND 8 ONLY. PROVIDE NEW CONCRETE WALL RECESS FROM THE ORIGINAL FOUNTAIN, FILL THE WALL RECESS WITH MATCHING CONCRETE AS NEEDED. PROVIDE BRUSHED STAINLESS STEEL TUBE WING WALLS ON EITHER SIDE OF THE DRINKING FOUNTAIN AS DETAILED.
- PROVIDE NEW LIGHTING AND OCCUPANCY SENSOR CONTROLS AND PATCH THE CEILING WHERE REQUIRED. MODIFY THE EXISTING RESTROOM PLUMBING WALLS AND CHASES AS INDICATED TO ACCOMMODATE THE NEW ACCESSIBLE FIXTURE ARRANGEMENT. PROVIDE NEW WATER CLOSET, SOLID-SURFACE COUNTERTOP AND STAINLESS STEEL SINK AS DETAILED. INSTALL CLEANED, UNDAMAGED, NON-STANDARD WINDOW COVERINGS, SUCH AS THE DARK CURTAINS LOCATED IN CONFERENCE ROOM #810 SHALL BE SALVAGED FOR NON-STANDARD SPECIFICATIONS OR PROVIDE NEW AS NEEDED.
- PROVIDE NEW STEEL FRAME SIDELITES ADJACENT TO DOORS AS SHOWN WITH 45 MINUTE RATED GLAZING. PROVIDE NEW ACCESSIBLE JAMB AND DOOR SIGNAGE PER STANDARD SPECIFICATIONS AND ARE IN GOOD, CLEANABLE CONDITION. NOTIFY ARCHITECT IF EXISTING PLUMBING RISER LOCATIONS CAN NOT ACCOMMODATE THE PROPOSED RESTROOM RECONFIGURATION. RETAIN ALL EXISTING TELECOMMUNICATION RISERS AND WALL BASE, WHERE FOUND, TO MINIMIZE DAMAGE TO EXISTING WALLS THAT ARE SHOWN TO REMAIN.
NOTE:
REFER TO SHEET T2 FOR GENERAL FINISH NOTES.

PAINT ALL WALLS AND CEILINGS P-1 UNLESS OTHERWISE NOTED.
PAINT CONCRETE CORE WALLS AND SHORT WALLS IN STAIRS AT FLOOR LANDINGS P-2 AS INDICATED.
PAINT ALL DOOR FRAMES P-4.
PAINT ELEVATOR DOORS P-5.
PAINT STAIR AND SMOKE TOWER DOORS P-3.
PAINT OFFICE AND CONFERENCE ROOM DOORS P-6. NOTE A DIFFERENT COLOR FOR EACH FLOOR.
PAINT RESTROOM CEILINGS PER SCHEDULE ON SHEET A6.0.
PAINT STAIR WALLS AND CEILINGS P-1 (EXCEPT SHORT FLOOR LANDING ACCENT WALL).
PAINT RESTROOM AND JANITOR DOORS P-3.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN PER ELEVATIONS ON SHEET A5.2.

PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.

PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.

PROVIDE PLASTIC LAMINATE CABINETS WITH WHITE MELAMINE INTERIORS WHERE INDICATED AND AS SCHEDULED. PROVIDE SOLID SURFACE COUNTERTOPS WHERE INDICATED ON ELEVATIONS.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.

SALVAGE AND RE-INSTALL RESTROOM DOOR AND JAMB SIGNAGE WHEN WORK IS COMPLETE. REFER TO DETAILS 8 & 9 ON SHEET A6.1

PROVIDE NEW ROOM IDENTIFICATION SIGNAGE AND BULLETIN BOARDS AT EACH ROOM IDENTIFIED ON THE FINISH PLAN PER ELEVATIONS ON SHEET A5.2.

PAINT ALL ACCENTED WALLS AND SHORT WALLS IN BULLETIN BOARDS SEE ELEVATIONS ON SHEET A5.2.
PAINT ALL SIDEDWALLS P-1.
PAINT ALL ACCENTED WALLS P-1.
PAINT ALL OFFICE AND CONFERENCE ROOM WALLS P-1.
PAINT ALL GLASS ENCASED BULLETIN BOARDS P-1.
PAINT ALL ACCENTED WOOD PANELING P-1.
PAINT ALL SUBWAY TILES P-1.
PAINT ALL CEILINGS PER ELEVATIONS ON SHEET A5.2.
PAINT ALL WALLS AND CEILINGS P-2.
PAINT ALL WALLS AND CEILINGS P-3.
PAINT ALL WALLS AND CEILINGS P-4.
PAINT ALL WALLS AND CEILINGS P-5.
PAINT ALL WALLS AND CEILINGS P-6.
PAINT ALL WALLS AND CEILINGS P-7.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

AARCO PRODUCTS, INC. MODEL #ADC2418H.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.

PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.

PAINT ALL WALLS AND CEILINGS P-2.
PAINT ALL WALLS AND CEILINGS P-3.
PAINT ALL WALLS AND CEILINGS P-4.
PAINT ALL WALLS AND CEILINGS P-5.
PAINT ALL WALLS AND CEILINGS P-6.
PAINT ALL WALLS AND CEILINGS P-7.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.

PROVIDE NEW WALLS AND CEILINGS P-1.
PROVIDE NEW WALLS AND CEILINGS P-2.
PROVIDE NEW WALLS AND CEILINGS P-3.
PROVIDE NEW WALLS AND CEILINGS P-4.
PROVIDE NEW WALLS AND CEILINGS P-5.
PROVIDE NEW WALLS AND CEILINGS P-6.
PROVIDE NEW WALLS AND CEILINGS P-7.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

AARCO PRODUCTS, INC. MODEL #ADC2418H.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.

PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.

PAINT ALL WALLS AND CEILINGS P-2.
PAINT ALL WALLS AND CEILINGS P-3.
PAINT ALL WALLS AND CEILINGS P-4.
PAINT ALL WALLS AND CEILINGS P-5.
PAINT ALL WALLS AND CEILINGS P-6.
PAINT ALL WALLS AND CEILINGS P-7.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW GLASS ENCASED BULLETIN BOARDS AS SPECIFIED AND PER THE CORRIDOR ELEVATION DRAWINGS BETWEEN AND INCLUDING FLOORS 2 THROUGH 8. SHEET A5.2.

PROVIDE NEW WALLS AND CEILINGS P-1.
PROVIDE NEW WALLS AND CEILINGS P-2.
PROVIDE NEW WALLS AND CEILINGS P-3.
PROVIDE NEW WALLS AND CEILINGS P-4.
PROVIDE NEW WALLS AND CEILINGS P-5.
PROVIDE NEW WALLS AND CEILINGS P-6.
PROVIDE NEW WALLS AND CEILINGS P-7.

NOTE: FOR BATHROOM FINISHES REFER TO SHEET A6.0.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

AARCO PRODUCTS, INC. MODEL #ADC2418H.

PROVIDE NEW STAIR LANDINGS SIGNAGE ON EACH FLOOR LEVEL PER SIGNAGE SCHEDULE ON SHEET A7.0.

PROVIDE A NEW FLOOR DIRECTORY AT EACH FLOOR'S ELEVATOR LOBBY BETWEEN AND INCLUDING FLOORS 2 THROUGH 8.

PROVIDE NEW WAYFINDING SIGNAGE IN THE ELEVATOR LOBBY OF EACH FLOOR BETWEEN AND INCLUDING LEVELS 2-8 PER THE SIGNAGE SCHEDULE ON A7.0 AND SIGNAGE DETAILS ON A7.1.

PROVIDE NEW CAMPUS STANDARD SIGNAGE IF NOT BEING SALVAGED FOR RE-USE. REFER TO SIGNAGE SCHEDULE ON A7.0.
FINISH PLAN KEYNOTES:

1. PREPARE NEW AND PREVIOUSLY PAINTED CEILING, WALL, DOORS, DOOR FRAMES, AND FLOOR SURFACES TO RECEIVE NEW PAINT.

2. ONLY FOR AREAS WHERE WORK IS INDICATED. PRIME NEW SURFACES AS NEEDED AND AT EXISTING SURFACES TO RECEIVE TWO NEW COATS OF PAINT FINISH. ADEQUATELY PROTECT ALL AREAS, LIGHTING AND HARDWARE NOT SCHEDULED TO RECEIVE PAINT.

3. PROVIDE NEW RUBBER STAIR TREADS AND MATCHING RUBBER FLOORING AT STAIR LANDINGS CONTINUOUSLY AT STAIRS NO. 1 AND NO. 2 AS INDICATED. PROVIDE CONTRASTING STRIPING AT TOP AND BOTTOM TREADS AS REQUIRED TO MEET CURRENT CODE.

REFER TO SHEET T2 FOR GENERAL FINISH NOTES.
ROOM 301 RECEPTION COUNTER (FRONT)
ROOM 301 RECEPTION COUNTER (REAR)
ROOM 301 RECEPTION COUNTER (FRONT)
ROOM 301 RECEPTION COUNTER (REAR)

PROVIDE WALL BACKING FOR 24" LCD TV.
24" LCD TV AND MOUNTING BRACKET N.I.C.

A9.3
A9.3
A9.3
A9.3

P. LAM COUNTERTOP 34" MAX
2'-7 1/2" 1 1/2" 2'-10" MAX. 3'-4" 1 1/2" 1 1/2" 2'-2" 2'-3" 5"

2" SPLASH 4" SPLASH 1'-8" 1'-3" 27" CLR

ADMINISTRATIVE TOWER ELEVATIONS
Typical Corridor Interior Elevations (Fifth Floor Shown)
ADMINISTRATIVE TOWER
WALL FRAMING AND PARTITION DETAILS

1. INTERIOR DOOR FRAMING - TYPICAL

2. WALL BACKING, TYP.

3. HEADER DETAIL, TYP.

4. WALL BRIDGING, TYP.

5. MULTIPLE STUD

6. FULL HEIGHT ONE HOUR-RATED PARTITION

7. FULL HEIGHT NON-RATED PARTITION WALL

8. CEILING HEIGHT NON-RATED PARTITION WALL

9. FULL HEIGHT NON-RATED PARTITION WALL

10. ROLLING GATE REAR WHEEL

NOTE: UL-HW-D-0045 FIRE RESISTIVE JOINT SYSTEM SHOWN; MEETS THE REQUIREMENTS OF UL 2079

SCALE: 3" = 1'-0"

5/8" GAP
RUBBER BASE, COVED AT TILE AND VINYL SHEET FLOORING, STRAIGHT AT CARPET.
CONNECT BOTTOM TRACK TO (E) CONCRETE WITH POWDER DRIVEN "PDPW-300" NAILS @ 24" O.C.
5/8" GYPSUM BOARD ON EACH SIDE OF 3-5/8" CORROSION PROTECTED STEEL C-STUD FRAMING. (20 GA. MIN. @ 24" O.C. MAX.) TO COMPLY WITH ICC REPORT # ER-4943P.

(E) CONCRETE FLOOR SUSPENDED ACOUSTICAL TILE CEILING

1/2" MIN. FIRE RESISTIVE SEALANT
3 5/8" DEEP LEG SLOTTED 18GA TRACK W/ 1" VERTICAL SLOTTED HOLE FOR NEW PARTITION WALLS, TYP.
BOTTOM OF CONCRETE WAFFLE SLAB
NO. 8 SCREW @ 4'-0" O.C.
CONNECT 3 5/8" 18GA TOP TRACK TO (E) CONCRETE WITH POWDER DRIVEN "PDPW-300" PINS @ 24" O.C.

BLOCKING AS REQUIRED

NOTE: SILL FRAMING DETAIL SIMILAR 1-1/2" x 1-1/2" x 16GA. CLIP ANGLE FASTENED WITH (4) #10 SCREWS AS SHOWN: ANGLE LENGTH SHALL NOT BE LESS THAN STUD DEPTH, MINUS 1/2"

1-1/2" x 16GA. U-CHANNEL BRIDGING SPACING AS REQUIRED

TYPICAL STUD, SIZE AND GAGE REFER TO DETAIL 9

CUT AND BEND TRACK AND FASTEN WITH SCREWS EACH SIDE AS REQUIRED

ALTERNATE DOUBLE STUD ATTACHMENT AT INTERIOR STUDS IN LIEU OF WELDING PL.
1"X3"X18GA @ 24" O.C. WITH #10 SMS TO EACH STUD

NOTE: DON'T ATTACH GYPSUM BOARD TO SLIP TRACK

NOTE: DO NOT ATTACH GYPSUM BOARD TO SLIP TRACK
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 8: Electrical and Fire Alarm Drawings – YHLA
GENERAL NOTE

1. NEW FIRE ALARM SYSTEM TO BE INSTALLED IN CONFORMITY WITH M minions EXCEPT AS NOTED.
2. SHEET NOTES TO BE CONSULTED WHERE NOTED.
3. NEW DOOR/Window.
4. REMOVE OLD HARDWARE AND INSTALL NEW.
5. NEW CONCEPTS AND DETAILS SEEM NEW.

FIRE ALARM PLAN
SIXTH FLOOR
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 9: Updated Specifications from YHLA.
PART 1 - GENERAL

1.01 DESCRIPTION

A. General: Provide structural steel and shear connectors, complete, as shown and specified per Contract Documents.

1.03 QUALITY CONTROL

A. Sequence of Welding: When welds enclose or partially enclose the perimeter or portion of the surface of a member, the weld bead shall be made in sequence, or staggered, so as to minimize internal stresses.

B. Faulty and Defective Welding: Any welding showing cracks, slag inclusions, lack of fusion, undercut or other defects as defined by AWS, ascertained by visual or other means of inspection, shall be gouged out and properly replaced with sound welds at the Contractor's expense.

C. Dimensional Tolerances: Conform to AISC requirements.

D. The Contractor shall perform quality control program to verify all materials, workmanship and completed work conform with the specified requirements. Submit a complete Quality Control manual for all shop fabrication and field erection items.

E. Contractor's Responsibilities for Quality Control: Provide to the owner's Testing Laboratory the following:
   1. Qualifications, training and experience of personnel.
   2. A complete set of approved shop and erection drawings.
   3. Factory report of material characteristics.
   4. Welder Approval Test Certificates.
   5. Details of welding procedures.

F. Regulatory Requirements: Comply with applicable requirements of the laws, codes, ordinances and regulations for authorities having jurisdiction. Obtain necessary approvals from all such authorities.

1.04 QUALITY ASSURANCE

A. Tests and Inspections by Owner's Testing and Inspection Agency for Structural Steel Work:
   1. Visual inspection of all materials including mill certificates for conformance with the requirements of the contract Documents.
   2. Visual inspection of all plate edges and rolled shape edges for material defects.
   3. Certify welders and conduct inspections and tests as required. Record types and locations of defects found in work. Record work required and performed to correct deficiencies.
   4. Perform visual inspection of all welds.
   5. Perform tests of welds as follows:
      a. Measurement of weld profiles for 25% of all welds at random.
      a. Visual inspection of all bolted connections after assembly.
b. Check fit and tightness of 5% of ordinary bolted connections or high strength bearing bolted connections.

B. Source Quality Control:
1. General: Material delivered with mill certificates is classified as identifiable; material delivered without certificates is classified as unidentifiable.
2. Testing of Unidentifiable Material: Performed by Owner's Inspection and Testing Agency; testing will be paid for by Contractor.
   a. General: Test material not identifiable by heat number and mill test or other acceptable manufacturer's identification per ASTM A370 as follows.
   b. Shear Connectors: Each lot of 100 studs; tensile tests on 3 finished studs per AWS.
   c. Structural Shapes and Plates: From coupons taken from material; one tensile test; one bend test, and one chemical test per 5 tons of each shape.
   d. High Strength Bolts: Each lot of 100 bolts; tensile tests on 2 bolts in full size and one tensile test on a 1/2 in. diameter machined specimen.
   e. Other Materials: Test as directed by the Owner or Engineer of Record.

1.05 STANDARDS
A. Except as modified by governing codes and by the Contract Documents, comply with the applicable provisions and recommendations of the following. Use latest edition unless noted otherwise.
3. AISC "Code of Standard Practice for Steel Buildings and Bridges".
4. Industrial Fasteners Institute (IFI) "Fastener Standards Book".
5. ASTM A6 "General Requirements for Delivery of Rolled Steel Plates, Shapes, Sheet Piling and Bars for Structural Use."
6. AISC "Specifications for Structural Joints Using ASTM A325 or A490 Bolts".
7. AWS D1.1 "Structural Welding Code", plus other requirements as specified.
8. SSPC "Steel Structures Painting Manual, Volume 2, Systems and Specifications".

B. Where the language in any of the documents referred to herein is in the form of a recommendation or suggestion, such recommendations or suggestions shall be deemed to be mandatory under this Contract.

1.06 SUBMITTALS
A. General: Submit the following items to the Owner in accordance with requirements of Laney College.
1. Product Data: Submit copies of manufacturer's specifications and installation instructions for each proprietary product, including laboratory test reports and such other data as may be required to show compliance with the specifications.
   a. Certified copies of mill reports covering chemical and physical properties.
   b. High strength bolts, each type, including nuts and washers.
   c. Unfinished bolts and nuts.
   d. Welding electrodes, each type.
2. Shop Drawings: Show fabrication of structural steel components.
   a. Complete erection plans and details.
b. Complete and coordinated details and schedules for the fabrication of each member, and for shop assembly of members.

c. Details of welds and welding procedures, including tack and sealing welds.

d. Fabrication and erection tolerances.

e. Layout drawings and templates for column base plates.

f. Welding Electrodes: Identify each type and class.

3. Certificates:
   a. Structural Steel: Certification of mill test reports indicating physical and chemical properties of steel used. Correlate individual heat numbers with each specified section and location. Unsatisfactory mill test reports; retest steel. Unsatisfactory material will be rejected.

b. High Strength Bolts: Certification of inspection test reports for each production lot indicating proof load, tensile strength (wedge test), and hardness. Unsatisfactory test reports; retest bolts. Unsatisfactory material will be rejected.

c. Shear Connectors: Certification of in-plant quality control mechanical test reports.

4. Owner's Testing Laboratory Reports: Submit certified reports, certified by a professional engineer, which shall include the following on a weekly basis:
   a. Shop welder approval test certificates.
   b. Field welder approval test certificates.
   c. Visual inspections to include shop and field welds.
   d. Materials inspections.
   e. Coating inspection reports.
   f. Modifications and remedial work.
   g. Visual inspection of completed works.
   h. Review of Contractor's quality control manual.
   i. Verification of welder’s certification for both field and shop welding.

1.07 PRODUCT HANDLING

A. Delivery: Deliver structural steel to Project site per ASTM A6. Clearly identify each type of steel.

B. Storage: Minimum amounts of materials may be stored at site; place to prevent damage to members.

C. Protection: Protect against corrosion, deterioration, and soiling from construction operations. Materials damaged due to improper storage will be rejected.

1.08 SCHEDULING

A. General: Base erection upon use of metal decking as a safety and construction floor in areas shown to receive metal decking. In other areas, safety planking provided under this Section.
PART 2 - PRODUCTS

2.01 MATERIALS

A. Metal Surfaces, General: For fabrication of work that will be exposed to view as specified on drawings, use only materials that are smooth and free of surface blemishes including pitting, rust and scale seam marks, roller marks, rolled trade names, and roughness. Remove such blemishes by grinding, or by welding and grinding, prior to cleaning, treating, and applying surface finishes. Material shall be of exact sizes, shapes, weight, and kinds provided for on drawings and specifications; however, with written permission of the Owner, members built up from plates may be substituted for rolled shapes, at no additional cost to Owner, provided physical properties of original member such as section modulus, moment of inertia, etc. are met, and provided welding inspection costs associated with substitute built-up member are furnished at no additional cost to Owner. All structural steel permanently exposed to the atmosphere shall be hot dip galvanized.

B. Anchor Bolts: ASTM A307 Grade A and A354 Grade BD where shown.

C. Structural Steel Shapes, Plates and Bars: ASTM A36, unless otherwise shown.

D. Structural Pipe: ASTM A500, Grade B or ASTM A53, Type E or S, Grade B.

E. Structural Tubes: ASTM A500, Grade B fy=46 ksi.

   1. Where shown or noted as galvanized, provide units that are hot-dip galvanized complying with ASTM A153.

   1. Where shown or noted as galvanized, provide units that are hot-dip galvanized complying with ASTM A153.

H. Lock Washers: ANSI B27.1; helical spring type, carbon steel; medium series.


J. Direct Tension Indicators: ASTM F959, type as required.
   1. Use on all A325 and A490 bolts on connections that are slip critical.

K. Filler Metal
   1. Electrodes for Carbon Steel: Conform to AWS "Structural Welding Code".
   2. Toughness Properties: See paragraph 1.03(A)(6)(c).

L. Welding Electrodes:
   1. E70XX (low hydrogen) for SMAW, AWS A5 or A5.1.
   2. E7XTX-X except -2,-3,-10,-GS for FCAW, AWS A5.20, A5.29.
   3. F7XX-EXXX for SAW, AWS A5.17 or A5.23.
M. Non-metallic Shrinkage Resistant Grout: Premixed, nonmetallic, noncorrosive, nonstaining, shrinkage resistant product containing selected silica sands, Portland cement, shrinkage compensating agents, plasticizing and water-reducing agents, complying with CE-CRD-C621 and ASTM C1107, free of gas-producing or gas-releasing agents, oxidizing catalysts, inorganic accelerators and chlorides. Minimum strength of 6000 lb per sq. inch. at 28 days. Provide one of the following:
1. "Five Star Grout" (U.S. Grout Corp.).
2. "Masterflow 713" (Master Builders Co.).
3. "Crystex" (L&M Construction Chemicals, Inc.).
4. "Sure Grip Grout" (Dayton Superior).

N. Primer Paint: Lead-free, chromate free, high-solids modified alkyd metal primer paint; provide one of the following:
1. “Series 90-1K97” (Tnemec Co.).
2. “G-203” (PPG Paints).
3. “GP-818” (Carboline Co.).
4. “Kem Bond HS” (Sherwin-Williams).

2.02 FABRICATION


B. Planning and Milling:
1. General: Assemble sections before milling; mill bearing surfaces to true planes. Mill ends of columns perpendicular to centerline axis connecting mid depth points at ends of member. Cut and fit column and bearing stiffeners in manner to provide bearing over entire cross section.
2. Column Base Plates:
   a. From 2 in. Through 4 in. Thickness: Straighten by pressing.
   b. Over 4 in. Thickness: Plane top for column bearing; plane bottom when bearing on steel.
3. Milling: Steel to steel joints and stiffeners that depend on contact bearing shall have surfaces prepared to a common plane by milling or cold sawing. Except where noted otherwise, the bearing surfaces shall be at right angles to the nominal axis of the member. Where multiple elements of a fabricated member are in bearing across a common plane, the member shall be assembled and welded prior to milling of the bearing surface.

C. Holes, Cutouts, and Fitting: Provide for other trades where shown. No additional holes, cutouts, or fittings permitted without written permission.

D. Camber: Fabricate beams and girders with natural camber upward, unless otherwise shown. Permissible camber per AISC, unless otherwise shown.

E. Fabrication Tolerances: Fabrication tolerances shall be in accordance with AISC requirements at a minimum, and special tolerances shall be determined as required in order to produce proper fit and coordination with other trades. The special tolerances pertaining to length, squareness, preassembled units, milling, camber, etc., as determined by contractor, shall be submitted.

F. Connections: Provide connection types and configurations as shown.
PERALTA COMMUNITY COLLEGE DISTRICT
REHABILITATIONS TO LANEY COLLEGE ADMINISTRATIVE TOWER
FALLON AND EAST 10TH STREET
OAKLAND, CALIFORNIA

G. Bolted Connections:
1. General: All bolted assemblies shall have the strength, grade and combination of bolts, nuts and washers as prescribed or recommended by the relevant Standard.
2. Bolt Holes: All holes shall be drilled, and where required, reamed. Except where noted otherwise, provide standard holes. Provide slotted holes where required for assembly or erection and/or where shown. All hole size changes shall be reviewed with the Architect and any changes required in the connections shall be provided by the Contractor at no additional expense.
3. Nuts: Provide materials and protect assemblies as required so that immediately prior to installation the nut turns freely on the bolt. Snug tighten nuts utilized in ordinary bolted connections to prevent loosening. Show methods of securing nuts to be utilized on the shop and/or erection drawings.
4. Slip Critical Friction Fasteners and Joints: Tighten bolts per standards and manufacturer's recommendations. The faying surfaces for friction joints shall be free of any applied finish, oil, dirt, loose rust, mill-scale, burrs, distortion, deformities and/or any other defects. The faying surfaces shall be prepared to achieve the slip factor required by the appropriate standards to achieve the design load capacities of the connection. Test as required to confirm the slip factor and/or connection capacity.

H. Welding:
1. General: Procedures per AWS. Assemble built-up sections by welding; free of warps; axes straight within specified tolerances.
2. Process:
   a. General: Automatic or semi-automatic welding may be used per AWS procedure. Welding processes other than shielded metal arc and submerged arc may be used provided procedure qualification tests are made per AWS for intended application of such process.
3. Procedure:
   a. General: Consider toughness and notch sensitivity of steel in formation of welding procedures to prevent brittle fracture during fabrication and erection.
   c. Connections: Weld in manner to minimize accumulation and concentration of through-thickness strains due to weld shrinkage.
4. Sequencing: In manner to reduce residual stresses caused by welding to a minimum value. If high residual stresses are present, stress relieving of joints may be required.

I. Built-up Sections: Assembly by welding shall be free of warpage and all axes shall have true alignment.

J. Shear Stud Connectors: Weld per AWS procedure. Clean areas to receive connectors; remove mill scale, rust, oil, grease, and other foreign material which may inhibit fusion. Preheating not required if fusion tests meet AWS requirements. Provide one extra test shear connector per 50 welded.

K. Prefabricated Fireproofed Steel Columns:
1. Fabricate per manufacturer in accordance with AISC requirements.
2. Remove outer shell only to allow for fabrication. Do not remove outer shell material where shown as finish material on Architectural Drawings.
3. Shop fabricate all connecting plates and welds to primary structural shape. Do not connect to outer shell.
4. Provide infill steel at cut-out, weld and grind smooth for consistent and even continuity of profile and line.

2.03 SHOP PAINTING
A. Provide primer paint at all steel not shown, specified or required as fire-proofed or galvanized.

B. General: Do not paint when ambient temperature is below 40 degrees F. Paint in dry weather or under cover. Apply paint by brush or spray over dry dust-free surfaces per manufacturer’s directions. Do not thin paint in excess of manufacturer’s recommendations. Allow paint to dry before handling or shipment of structural steel. Do not shop paint surfaces and edges of field welded steel; keep paint at least 2 in. away from field welds.

C. Primer Paint:
   1. Surface Preparation: Before blast cleaning, clean surfaces of loose mill scale, dirt, rust, and other foreign matter by use of suitable tools; hand tool cleaning per SSPC SP-2 and power tool cleaning per SSPC SP-3; remove oil and grease with volatile solvents per SSPC SP-1. Blast all steel per SSPC-SPG Commercial Blasting.
   2. Application: Apply one coat to surfaces where shown; dry film thickness not less than 2.0 mils.

D. Machine Finished Surfaces: Carefully protect against corrosion with a coat of white lead and tallow or similar protection; apply per AISC requirements prior to shipment.

E. Unpainted Surfaces: Remove oil and grease with solvent cleaners; remove loose mill scale, dirt, and other foreign material by sweeping with wire brushes.

F. Site Welded Areas: Mask areas to receive site welding, re-surface, re-prime, etc.

2.04 FABRICATION QUALITY ASSURANCE

A. General: Performed by Owner's Testing and Inspection Agency) for all Structural Steel work and as specified on drawings.

PART 3 - EXECUTION

3.01 PREPARATION

A. Field Measurements: Use a registered Professional Surveyor to field check all the existing works to receive structural steel from permanent bench marks. Report discrepancies to the Owner; do not proceed with work until corrected.

3.02 ERECTION

A. General: Erect building frame true and level. Erect columns in manner to allow for shrinkage of girders after welding. Check plumbness after erection of each tier. Maintain structural stability of frame during erection. Contractor shall allow for additional temporary bracings required during erection of structural steel on seismic isolators. Provide temporary bracing where necessary to maintain frame stability, to support required loads including wind and seismic, and stability for equipment and its operation.

1. Frame Stability Under Wind and Seismic Loads:
   b. Contractor shall retain the services of a registered Structural Engineer in the State of California to provide temporary bracings and supports as required to meet CBC gravity and lateral load requirements.

2. The Contractor shall be responsible for the correct fitting of all structural members and for the elevation and alignment of the finished steel structure. Any adjustments necessary in the steel
frame because of discrepancies in elevations of alignment shall be the responsibility of the Contractor.

B. Examination:
   1. Verification of Conditions: Examine the areas to receive the Work and the conditions under which the Work would be performed. Contractor shall remedy conditions detrimental to the proper and timely completion of the Work. Do not proceed until unsatisfactory conditions have been corrected.

C. Preparation:
   1. Bench Marks: The Contractor shall employ the services of a Registered Professional Surveyor to establish permanent bench marks which shall remain accessible and unaffected by settlements for the duration of the work.
   2. Survey of Existing Works: Prior to commencing erection, survey at least the following. Report any discrepancies beyond specified tolerances to the Owner. Adjust detailing and member lengths to accommodate existing conditions when they are not within specified tolerances. Submit structural steel shop drawings and erection drawing showing field surveyed dimensions.
      a. Elevations of concrete on which structural steel is to be placed.
      b. Location of beam and column and anchor bolts.
      c. Locations of existing works that may affect fabrication and erection.

D. Templates: Where steel work will frame to existing bolt holes, if available obtain templates, otherwise, field measure existing bolt holes. Where bolt holes are indicated for work by others or for future work, supply templates for the future work.

E. Drifting: Light drifting permitted to draw holes together; drifting of unfair holes not permitted. Where enlarged holes are acceptable, use twist drills to enlarge holes to make connections. Members weakened by reaming because of over-sized holes, or impossible to adjust accurately after reaming, are not permitted.

F. Flame Cutting: Only by written permission from the Owner. Use of burned holes for bolted connections not permitted; structural members with burned holes will be rejected.

G. Erection Tolerances:

H. Connections: Do not weld nor draw bolts tight until structure is properly aligned.

I. Beam Cambers: Per AISC Code, not less than plus or minus 1/4 in.

J. Miscellaneous Materials: Provide support clips, plates, and angles welded to columns for support of metal decking.

3.03 GROUTING: Install in Presence of Owner's Testing and Inspection Agency and Per Manufacturer's Specifications.

3.04 CONNECTION TYPES
   A. Primary Frame: AISC welded and high strength bolted connections as shown.
   B. Purlins, Floor Beams, and Secondary Framing:
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1. General: High strength bolts, unless otherwise shown.
2. Connections: AISC Type X bearing-type with threads excluded from shear plane.

3.05 BOLTING

A. High Strength Bolts:
   2. Alignment: Fair up holes with drift pins to bring adjacent parts into proper alignment.
   3. Installation: Place bolts in open holes; bring bolts to snug tight condition with adjacent surfaces of joining parts in full contact. Replace pinned holes with bolts and draw to snug tight. No bolt threads permitted in faying surfaces.
   4. Tightening: Sequentially tighten bolts to proofload. Recheck bolts in joint after first pass of tightening to assure initial bolts did not loosen during tightening of subsequent bolts.
   5. Identification: Mark completed joint with identifying symbol.

3.06 WELDING

A. General: Weld per AWS D1.1/D1.1M:2006 and WPS reviewed by Owner's Testing and Inspection Agency and by the Structural Engineer of Record. See paragraph 1.03.

B. Welding: Weld in manner to prevent warping or distortion of finished product. Use jigs which will restrain piece from moving during welding or cooling after welding. Sequence weld passes at a joint to prevent excessive heat build-up or cause shrinkage cracks to form. Adequately chip and brush joint after successive passes to prevent slag inclusions, open pockets, and inadequate fusion. See paragraph 1.03.

3.07 RECORD SURVEYS

A. Surveys: Make an accurate survey of actual column locations immediately upon the completion of every second level of steel and promptly submit report to the Owner. Resurvey shall include level below. Should column locations vary beyond the allowable tolerances, take necessary corrective measures and modify details and/or procedure as required. Survey the final erected structural steel frame prior to the application of any other work, reporting any discrepancies from Contract requirements to the Owner.

3.08 FIELD QUALITY ASSURANCE

A. Erection Inspection:
   2. Field Welds:
      a. Certificates: Verify certificates of all welders
      b. Test as specified for fabrication inspection.
      c. Visual: Visually inspect all welds
   3. High Strength Bolting:
      a. Test after tightening 25% but not less than 2 of the bolts in each high strength slip critical connection; use accurately calibrated manual torque wrenches.
      b. Visually inspect all bolted connections after assembly.
      c. Check fit and tightness of 5% of all bolted connections.
3.09 FIELD TOUCH-UP OF SHOP PAINTED SURFACES

A. General: Touch-up marred and abraded surfaces, paint field connections and adjacent uncoated portions of structural steel. Clean surfaces with wire brush and apply paint as specified for shop painting, except for the sandblasting requirement; use same paint.

END OF SECTION
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SECTION 05 40 00
COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS
   A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to the Work of this Section.

1.02 SUMMARY
   A. Provide cold-formed metal framing at interior partitions as shown on the Drawings and specified.

1.03 SUBMITTALS
   A. Product data and installation instructions for each item of cold-formed metal framing and accessories.
   B. Mill certificates signed by steel sheet producer indicating steel sheet complies with requirements.

1.04 QUALITY ASSURANCE
   A. Component Design: Structural properties of framing is indicated on Drawings.
   C. Fire-Rated Assemblies: Where framing units are components of assemblies indicated for a fire-resistance rating, including those required for compliance with governing regulations, provide units that have been approved by the authorities having jurisdiction.
   D. Pre-Construction Conference: Participate in conference at Project site to comply with the requirements of Section 01 31 00, “Project Management and Coordination.”
   E. Pre-Installation Conference: Prior to start of installation of metal framing systems, meet at project site with installers of other work including door and window frames and mechanical and electrical work. Review areas of potential interference and conflicts, and coordinate layout and support provisions for interfacing work.
      1. Coordinate with provisions of Laney College.

PART 2 - PRODUCTS

2.01 MATERIALS
   A. Recycled Content of Steel Products: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of pre-consumer recycled content is not less than 25 percent.
   B. System Components: Manufacturers' standard load-bearing steel studs and joists of type, size, shape, and gage as indicated. With each type of metal framing required, provide manufacturer's standard steel runners
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(tracks), blocking, lintels, clip angles, shoes, reinforcements, fasteners, and accessories for applications indicated, as needed to provide a complete metal framing system.

C. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
   2. Coating: G90 (Z275) or equivalent.

D. Steel Sheet for Vertical Deflection and Drift Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:
   1. Grade: 50 (340), Class 1 or 2.
   2. Coating: G90 (Z275).

E. Fasteners: Provide fasteners as shown on the Drawings, to include nuts, bolts, washers, screws, and other fasteners with corrosion-resistant plated finish.

F. Electrodes for Welding: Comply with AWS D1.3, Class E 70.

G. Galvanizing Repair: Where galvanized surfaces are damaged, prepare surfaces and repair in accordance with procedures specified in ASTM A 780.

2.02 METAL FRAMING

A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, complying with ASTM C 955, thickness and dimensions as indicated on Drawings.
   1. Stiffened flanges shall be minimum 2-inches.

B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, complying with ASTM C 955, thickness and dimensions as indicated on Drawings.

2.03 FABRICATION

A. General: Framing components may be prefabricated into assemblies before erection. Fabricate panels plumb, square, true to line, and braced against racking with joints welded. Perform lifting of prefabricated units to prevent damage or distortion.

B. Fabricate units in jig templates to hold members in proper alignment and position and to assure consistent component placement.

C. Fastenings: Attach similar components by welding. Attach dissimilar components by welding, bolting, or screw fasteners, as standard with manufacturer.

D. Wire tying of framing components is not permitted.

E. Fabrication Tolerances: Fabricate units to a maximum allowable tolerance variation from plumb, level, and true to line of 1/8 inch in 10 feet.
2.04 FRAMING ACCESSORIES

A. Fabricate steel-framing accessories of the same material and finish used for framing members, with a minimum yield strength of 33,000 psi (230 MPa).

B. Provide accessories of manufacturer's standard thickness and configuration, for conditions indicated on Drawings.

2.05 ANCHORS, CLIPS, AND FASTENERS

A. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot-dip process according to ASTM A 123.

B. Anchor Bolts: ASTM F 1554, Grade 55, threaded carbon-steel hex-headed bolts and carbon-steel nuts; and flat, hardened-steel washers; zinc coated by hot-dip process according to ASTM A 153/A 153M, Class C.

C. Expansion Anchors: Fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 5 times design load, as determined by testing per ASTM E 488 conducted by a qualified independent testing agency.

D. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with capability to sustain, without failure, a load equal to 10 times design load, as determined by testing per ASTM E 1190 conducted by a qualified independent testing agency.

E. Mechanical Fasteners: Corrosion-resistant-coated, self-drilling, self-threading steel drill screws.

1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.

F. Welding Electrodes: Comply with AWS standards.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine supporting substrates and abutting structural framing for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Before sprayed fire-resistive materials are applied, attach continuous angles, supplementary framing, or tracks to structural members indicated to receive sprayed fire-resistive materials.

B. After applying sprayed fire-resistive materials, remove only as much of these materials as needed to complete installation of cold-formed framing without reducing thickness of fire-resistive materials below that are required to obtain fire-resistance rating indicated. Protect remaining fire-resistive materials from damage.

3.03 INSTALLATION, GENERAL

A. General: Install metal framing systems in accordance with manufacturer’s printed or written instructions and recommendations, unless otherwise indicated.

B. Runner Tracks:
1. Install continuous tracks sized to match studs.

2. Align tracks accurately to layout at base and tops of studs.

3. Secure tracks as detailed and as recommended by stud manufacturer for type of construction involved, except do not exceed 24 inches o.c. spacing for nail or power-driven fasteners or 16 inches o.c. for other types of attachment.

4. Provide fasteners at corners and ends of tracks.

C. Installation of Wall Studs: Secure studs to top and bottom runner tracks by either welding or screw fastening at both inside and outside flanges.

D. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.

E. Where stud system abuts structural columns or walls, including masonry walls, anchor ends of stiffeners to supporting structure.

F. Install supplementary framing, blocking, and bracing in metal framing system wherever walls or partitions are indicated to support fixtures, equipment, services, casework, heavy trim and furnishings, and similar work requiring attachment to the wall or partition. Where type of supplementary support is not otherwise indicated, comply with stud manufacturer's recommendations and industry standards in each case, considering weight or loading resulting from item supported.

G. Frame wall openings larger than 2 feet square with double stud at each jamb of frame except where more than two are either shown or indicated in manufacturer's instructions. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with stud shoes or by welding, and space jack studs same as full-height studs of wall. Secure stud system wall opening frame in manner indicated.

H. Frame both sides of expansion and control joints with separate studs; do not bridge the joint with components of stud system.

I. Install horizontal stiffeners in stud system, spaced (vertical distance) at not more than 54 inches o.c. Weld at each intersection.

J. Erection Tolerances: Bolt or weld wall panels (at both horizontal and vertical junctures) to produce flush, even, true-to-line joints.

1. Maximum variation in plane and true position between prefabricated assemblies should not exceed 1/16 inch.

END OF SECTION 05 40 00
DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes
1. Furnish door hardware in accordance with hardware groups scheduled.
   a. Upgrade existing hardware to current standards.
2. Furnish templates and hardware list of hardware as required.
3. Furnish cylinders for electrical panels and fire alarm panels, as required.
4. Door hardware includes the following:
   a. Pivots/Hinges.
   b. Locksets and latchsets.
   c. Closers.
   d. Deadbolts.
   e. Push/pulls.
   f. Thresholds.

B. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

C. Related Sections
1. Section 07 92 00 - Joint Sealants: Provision of sealers and caulks.
2. Section 08 11 15 - Steel Doors and Frames: Provision of steel doors and frames.
5. Section 09 90 00 - Painting and Coating: For finish painting.

1.02 REFERENCES

A. ADA - Americans with Disabilities Act
C. DHI - Door and Hardware Institute
   1. RL - Recommended Locations for Builders Hardware for Standard Steel Doors and Frames.
D. Intertek Testing Agency
E. NFPA - National Fire Protection Association
   1. 80 - Fire Doors and Windows.
F. NWWDA - National Wood Window and Door Association
   1. I.S.1.7 - Hardware Locations for Wood Flush Doors.
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G. UL - Underwriters Laboratories Inc.

1.03 SUBMITTALS

A. Product Data: Submit manufacturer’s product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.  
1. Final hardware schedule, incorporating the Architect’s door numbering system, coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.  
2. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into “hardware sets” indicating complete designations of every item required for each door or opening. Include the following information:  
   a. Type, style, function, size, and finish of each hardware item.  
   b. Name and manufacturer of each item.  
   c. Fastenings and other pertinent information.  
   d. Location of each hardware set cross referenced to indications on the Drawings both on floor plans and in door and frame schedule.  
   e. Explanation of all abbreviations, symbols, and codes contained in schedule.  
   f. Mounting locations for hardware.  
   g. Door and frame sizes and materials.  
   h. Keying information.  

B. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

1.04 QUALITY ASSURANCE

A. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project’s vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced architectural hardware consultant (AHC) who is available to the Owner, Architect and Contractor, at reasonable times during the course of the Work, for consultation, at no additional cost to the Owner during progress of construction; shall be present at completion of construction; shall inspect installation of all finish hardware items; make all minor adjustments required; and shall report to the Architect on completeness of the installation.  
1. The AHC may be an employee of the supplier.  
2. Require supplier to meet with the Owner to finalize keying requirements and to obtain final instructions in writing.  

B. Regulatory Requirements: Provide door hardware for fire rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL or Intertek Testing Agency.
1.05 MAINTENANCE

A. Maintenance Tools and Instructions: With delivery of keys, furnish a complete set of specialized tools and maintenance instructions as needed for the Owner’s continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturers
   1. Hinges: McKinney, or equal.
   2. Pivots: Dorma, or equal.
   3. Locksets and Latchsets: Best Hardware, Inc., or equal.
   4. Deadbolts: Best Hardware, Inc., or equal.
   5. Closers: LCN Closers, or equal.
   6. Concealed Floor Closers: Dorma, or equal.
   7. Pulh/Pulls: Forms + Surfaces, or equal.
   8. Thresholds: Pemko Manufacturing Co., Inc., or equal.
   9. Gate Hardware: As indicated on the Drawings.

2.02 GENERAL

A. Fasteners
   1. Furnish necessary screws, bolts, and other fasteners of suitable size and type to anchor the hardware in position for long life under hard use.
   2. Where necessary, furnish fasteners with toggle bolts, expansion shields, sex bolts, and other anchors approved by the Architect, according to the material to which the hardware is to be applied and according to the recommendations of the hardware manufacturer.
   3. Provide fasteners which harmonize with the hardware as to finish and material.

B. Where butts are required to swing 180 degrees, furnish butts of sufficient throw to clear the trim.

C. Furnish silencers for door frames at the rate of 3 for each single door and 2 for each door or pair of doors; except weatherstripped doors and doors with light seals, smoke seals or sound seals.

D. Closures
   1. At exterior doors, closures shall protect against strong winds (suction) and slamming, and shall be attached with sex-bolts.
   2. Comply with OBC, Section 905.3, Section 1004.2 and Section 1133B.2.5.1. for maximum effort to operate doors.
   3. Closers shall be attached with sex bolts.
E. Tools and Manuals: With delivery of permanent key, deliver to the Owner 1 complete set of adjustment tools and 1 set of maintenance manuals for locksets, closers and panic devices in accordance with Project close-out requirements.

F. Spare Parts: Include 1 gross of extra key blanks for the Project. Deliver as specified below.

G. Furnish thresholds as specified or as detailed.

2.03 KEYING

A. Review the keying system with the Owner and provide the type required.

B. Provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.
   1. Permanently inscribe each key with number of lock that identifies cylinder manufacturer’s key symbol, and notation, “DO NOT DUPLICATE”.

C. Key Material: Provide keys of nickel silver only.

D. Key Quantity: Furnish 3 change keys for each lock.

2.04 OTHER MATERIALS

A. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Architect.

2.05 FINISHES

A. Typical: US32, Bright Stainless Steel, or US32D, Satin Stainless Steel, to match existing, unless otherwise specified. Verify in field.

PART 3 - EXECUTION

3.01 DELIVERIES

A. Stockpile items sufficiently in advance to assure their availability, and make necessary deliveries in a timely manner to assure orderly progress of the total Work.

3.02 COORDINATION

A. Coordinate as necessary with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this Section.

3.03 INSTALLATION

A. Mount hardware units at heights indicated in DHI RL and NWWDA I.S.1.7, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by the Architect.
B. Install each hardware item in compliance with the manufacturer’s instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in Section 09 90 00. Do not install surface-mounted items until finishes have been completed on the substrates involved.

C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

E. Set thresholds in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Section 07 92 00.

3.04 ADJUSTING, CLEANING, AND DEMONSTRATING

A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made. The operation of the ventilation system shall not cause doors to slam shut or fail to close completely.
   1. Adjust operation of all doors to meet ADA and OBC, Section 905.3, Section 1004.2 and Section 1133B.2.5.1. for requirements for opening force.
   2. Where door hardware is installed more than 1 month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area.
   3. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

B. Clean adjacent surfaces soiled by hardware installation.

C. Instruct Owner’s personnel in the proper adjustment and maintenance of door hardware and hardware finishes.

3.05 SCHEDULE OF DOOR HARDWARE GROUPS  See Drawings

END OF SECTION
PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Patching of existing gypsum board attached to framing and furring members, joint treatment, and accessories.

B. Products Installed but not Furnished under this Section
   1. Acoustical sealant as specified in Section 07 92 00.

C. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

D. Related Sections
   1. Section 05 45 00 - Metal Support Assemblies: Provision of metal support assemblies.
   2. Section 07 92 00 - Joint Sealants: Provision of caulking and sealants.
   3. Section 09 30 00 - Tiling: Provision of ceramic tile.
   4. Section 09 90 00 - Painting and Coating: For finish painting.

1.02 REFERENCES

A. ASTM - American Society for Testing and Materials
   5. C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.

B. GA - Gypsum Association
   1. 201 - Using Gypsum Board for Walls and Ceilings
   2. 216 - Application and Finishing of Gypsum Board.


D. UL - Underwriters Laboratories Inc.
1.03 SYSTEM DESCRIPTION

A. Design Requirements: Where indicated, provide materials and construction which are identical to those assemblies whose fire resistance rating has been determined in accordance with ASTM E119 by a testing and inspecting organization acceptable to authorities having jurisdiction.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer’s product data. Include the following:
   1. Fire Resistance Data: Include required fire test results for gypsum board systems on partitions, ceilings and columns. Correlate with supporting steel framing details.
   2. Sound Transmission Data: Include certified evidence that installed gypsum board systems and materials meet required STC levels.

1.05 QUALITY ASSURANCE

A. Fire Test Response Characteristics: Where fire resistance rated gypsum board assemblies are indicated, provide gypsum board assemblies that comply with the following requirements:
   1. Fire Resistance Ratings: Design designations in UL FRD as indicated on the Drawings.
   2. Gypsum board assemblies indicated are identical to assemblies tested for fire resistance according to ASTM E119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

PART 2 - PRODUCTS

2.01 MANUFACTURERS


2.02 MATERIALS

A. Typical Gypsum Board: Fire rated board for fire resistance rated assemblies, ASTM C36, Type X, tapered edges, 48 inches wide, 5/8-inch thick.

B. Fasteners
   1. Screws: ASTM C1002, Type “S” steel drill screws for fastening gypsum board to gypsum board, and metal framing members.
   2. Tie Wire: ASTM A641, Class 1 zinc coating, soft temper, minimum 0.0516-inch thick (18 gauge) diameter wire.
   3. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.

C. Accessories
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D. Joint Treatment Materials: Products of one manufacturer conforming to ASTM C475, ASTM C840 and recommendations of manufacturer of both gypsum board and joint treatment materials for application indicated. Conform to GA 201 and GA 216 for reinforcing tape, joint compound and water.
   1. Joint Tape: Cross-laminated, tapered edge, reinforced paper or fiber glass mesh tape as recommended by setting type joint compound manufacturer.
   2. Setting Type Joint Compound: Factory prepackaged, job mixed, chemical hardening powder products formulated for uses indicated or factory premixed product.

E. Joint System for Unrestrained Floor Assembly: Provide vinyl, dry, or premixed joint compound, applied in 2 coats to joints and screw heads, paper type, 2 inches wide, embedded in first layer of compound over all joints.

F. Acoustical Sealant: As specified in Section 07 92 00.

2.03 FINISHES

A. Levels of Gypsum Board Finish
   1. Level 1
      a. Ceiling Plenum Areas, Concealed Areas and Where Indicated: All joints and interior angles shall have tape embedded in joint compound. Surface shall be free of excess joint compound. Tool marks and ridges are acceptable.
   2. Level 2 - Not Used
   3. Level 3 - Not Used
   4. Level 4 - Not Used
   5. Level 5
      a. Areas to Receive Gloss, Semi-Gloss, Enamel or Nontextured Flat Paints, Where Severe Lighting Conditions Occur, and Where Indicated: All joints and interior angles shall have tape embedded in joint compound and 3 separate coats of joint compound applied over all joints, angles, fastener heads and accessories. A thin skim coat of joint compound or a material manufactured especially for this purpose, shall be applied to entire surface. Surface shall be smooth and free of tool marks and ridges.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Gypsum Board
   1. Install and finish gypsum board to comply with ASTM C840 or GA 216.
      a. Single Layer: Install in accordance with ASTM C840, except as amended or required by specific fire resistive or sound isolation system detailed. In that instance, application shall conform to requirements of the manufacturer’s tests as reviewed and accepted in the submittal. Apply in vertical direction with ends and edges falling on supports and fasten with screws.
b. In vertical applications, gypsum board shall be of length required to reach full height of vertical surfaces in one continuous piece.
2. Position boards so that like edges abut, tapered edges against tapered edges and field cut ends against field cut ends. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions.
3. Start installation of panels at exterior wall to position butt joints as far away from exterior wall as possible.

B. Fire Resistant Assemblies: Wherever fire rated gypsum board construction is indicated, provide materials and installation methods, including types and spacing of fasteners, in accordance with OBC. Apply firestopping at top of wall and at penetrations through fire resistant assembly.

C. Sound Retardant Installations: Follow manufacturer’s directions and specifications for conditions of installation. Install where indicated. Include around all Toilet Rooms, whether indicated or not.
1. Wrap with insulation and seal electrical or other outlets in sound isolating partitions.
2. Install sealant to completely fill void between gypsum board edges and adjacent surface.

D. Fastenings: Attach gypsum board to framing with screws, lengths and sizes as recommended by manufacturer and in accordance with OBC.

E. Laminating to Substrate: Where gypsum panels are indicated as directly adhered to a substrate (other than studs, joists, or furring members), comply with gypsum board manufacturer’s written recommendations and temporarily brace or fasten gypsum panels until fastening adhesive has set.

F. Accessories
1. Install resilient channels in accordance with manufacturer’s written instructions.
2. Install corner beads at vertical and horizontal external corners.
3. Install casing beads whenever edge of gypsum board would otherwise be exposed or semi-exposed, or where abutting dissimilar materials.
4. After accessories are installed, correct surface damage and defects.
5. Install trims and expansion joints where required.

G. Allowable Tolerances
1. Offset Between Planes of Board Faces: 1/16-inch.
2. Plane, Level, Warp and Bow: 1/8-inch in 8 feet-0 inches.
3. Shim panels as necessary to comply with tolerances.

3.02 FINISHING OF GYPSUM BOARD

A. Apply joint treatment at gypsum board joints; flanges of corner bead, edge trim and penetrations, fastener heads and surface defects in accordance with ASTM C840 or GA 216. Number of coats of treatment shall be as specified above.

B. Apply joint tape at joints between gypsum boards.
C. Finish interior gypsum board by applying the number of coats of treatment as specified above. Sand between coats and after last coat.

D. Finish Painting: As specified in Section 09 90 00.

E. Sealant
   1. Seal openings around pipes, fixtures and other items projecting through gypsum board as specified in Section 07 92 00.
   2. Apply sealant material with exposed surface flush with gypsum board.

END OF SECTION
PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Surface preparation, painting and finishing of designated exposed interior and exterior items and surfaces.

B. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

C. Related Sections
   1. Section 05 50 00 - Metal Fabrications: For shop priming ferrous metal.
   2. Section 06 41 10 - Custom Casework: Provision of custom cabinetry.
   5. Section 08 31 13 - Access Doors and Frames: Provision of access doors and frames.
   6. Section 08 71 00 - Door Hardware: Provision of door hardware.
   7. Section 09 29 00 - Gypsum Board: Provision of gypsum board.

1.02REFERENCES

A. FM - Factory Mutual

B. UL - Underwriters Laboratories Inc.

1.03 DEFINITIONS

A. “Paint”: As used herein, means coating systems materials including primers, emulsions, epoxy, enamels, sealers, fillers, and other applied materials whether used as prime, intermediate or finish coats.

1.04 SYSTEM DESCRIPTION

A. Performance Requirements
   1. Paint exposed surfaces whether or not colors are designated in the schedules, except where a surface or material is specifically indicated not to be painted or is to remain natural. Where an item or surface is not specifically mentioned, paint the same as similar adjacent materials or surfaces. If color or finish is not designated, the Architect will select from standard colors or finishes available.
   2. Painting is not required on prefinished items, finished metal surfaces, concealed surfaces, operating parts and labels.
   3. Do not paint over UL, FM, or other code required labels or equipment name, identification, performance rating or nomenclature plates.
1.05 SUBMITTALS

A. Product Data: Submit manufacturer’s product data for each paint system specified, including primers.
   1. Provide manufacturer’s technical information including label analysis and instructions for handling, storage and application of each material proposed for use.
   2. List each material and cross reference the specific coating, finish system and application. Identify each material by the manufacturer’s catalog number and general classification.

B. Samples
   1. Following the selection of colors and glosses by the Architect, submit samples for the Architect’s review.
      a. Provide 3 samples of each color and each gloss for each material on which the finish is specified to be applied.
      b. Except as otherwise directed by the Architect, make samples approximately 8 inches by 10 inches in size.
      c. If so directed by the Architect, provide field mock-ups during progress of the Work in the form of actual application of the materials on actual surfaces to be painted for approval by the Architect. Areas shall be 10 feet by 10 feet.
   2. Revise and resubmit each sample or field mock-up as requested until the required gloss, color and texture are achieved. Such samples or field mock-ups, when approved, will become standards of color and finish for accepting or rejecting the work of this Section.
   3. Do not commence finish painting until approved samples are on file at the job site.

C. Quality Control Submittals: Provide certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

1.06 QUALITY ASSURANCE

A. Provide primers and undercoat paint produced by the same manufacturer as finish coats.
   1. Review other Sections of these Specifications as required, verifying the prime coats to be used and assuring compatibility of the total coating system for the various substrates.
   2. Upon request, furnish information on the characteristics of the specific finish materials to assure that compatible prime coats are used.
   3. Provide barrier coats over non-compatible primers, or remove the primer and re-prime as required.
   4. Notify the Architect in writing of anticipated problems in using the specified coating systems over prime coatings supplied under other Sections.

1.07 MAINTENANCE

A. Upon completion of the work of this Section, deliver to the Owner an extra stock equaling 10 percent of each color, type and gloss of paint used in the Work; tightly sealing each container, and clearly labeling with contents and location where used.
PART 2 - PRODUCTS

2.01 MANUFACTURERS


2.02 PAINT MATERIALS

A. Paint Materials, General: Provide primers, finish coat materials, and related materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by the manufacturer, based on testing and field experience.

B. Material Quality: Provide manufacturer’s best quality trade sale paint material of the various coating types specified. Paint material containers not displaying manufacturer’s product identification will not be acceptable.

2.03 APPLICATION EQUIPMENT

A. For application of the approved paint, use only such equipment as is recommended for application of the particular paint by the manufacturer of the particular paint, and as approved by the Architect.

B. Prior to use of application equipment, verify that the proposed equipment is actually compatible with the material to be applied, and that integrity of the finish will not be jeopardized by use of the proposed equipment.

2.04 OTHER MATERIALS

A. Provide other materials not specifically described but required for a complete and proper installation, as selected by the Contractor subject to the approval of the Architect.

PART 3 - EXECUTION

3.01 PREPARATION

A. Surface Preparation
   1. General
      a. Perform preparation and cleaning procedures in strict accordance with the paint manufacturers’ recommendations as approved by the Architect.
      b. Remove removable items which are in place and are not scheduled to receive paint finish; or provide surface applied protection prior to surface preparation and painting operations.
      c. Following completion of painting in each space or area, reinstall the removed items by using workmen who are skilled in the necessary trades.
   2. Clean each surface to be painted prior to applying paint or surface treatment.
   3. Remove oil and grease with clean cloths and cleaning solvent of low toxicity and flash point in excess of 200 degrees Fahrenheit prior to start of mechanical cleaning.
   4. Schedule the cleaning and painting so that dust and other contaminants from the cleaning process will not fall onto wet newly painted surfaces.
B. Preparation of Metal Surfaces
   1. Thoroughly clean surfaces until free from dirt, oil and grease.
   2. On galvanized surfaces, use solvent for the initial cleaning, and then treat the surface thoroughly with the phosphoric acid etch. Remove etching solution completely before proceeding.
   3. Allow to dry thoroughly before application of paint.

3.02 PAINT APPLICATION

A. General
   1. Touch-up shop-applied prime coats which have been damaged, and touch-up bare areas prior to start of finish coats application.
   2. Slightly vary the color of succeeding coats.
      a. Do not apply additional coats until the completed coat has been inspected and approved.
      b. Only the inspected and approved coats of paint will be considered in determining the number of coats applied.
   3. Sand and dust between coats to remove defects visible to the unaided eye from a distance of 5 feet.
   4. On removable panels and hinged panels, paint the back sides to match the exposed sides.

B. Drying
   1. Allow sufficient drying time between coats, modifying the period as recommended by the material manufacturer to suit adverse weather conditions.
   2. Consider oil base and oleo-resinous solvent-type paint as dry for re-coating when the paint feels firm; does not deform or feel sticky under moderate pressure of the thumb, and when the application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

C. Brush Applications
   1. Brush out and work the brush coats onto the surface in an even film.
   2. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness and other surface imperfections will not be acceptable.

D. Spray Application
   1. Except as specifically otherwise approved by the Architect, confine spray application to metal framework and similar surfaces where hand brush work would be inferior.
   2. Where spray application is used, apply each coat to provide the hiding equivalent of brush coats.
   3. Do not double back with spray equipment to build up film thickness of 2 coats in 1 pass.

E. For completed work, match the approved samples as to texture, color and coverage. Remove, refinish or repaint work not in compliance with the specified requirements.
F. Miscellaneous Surfaces and Procedures
   1. Exposed mechanical items:
      a. Finish electric panels, access doors, conduits, pipes, ducts, grilles, registers, vents and items of similar nature to match the adjacent wall and ceiling surfaces, or as directed.
      b. Paint visible duct surfaces behind vents, registers, and grilles flat black.
      c. Wash metal with solvent, prime and apply 2 coats of alkyd enamel.
   2. Exposed pipe and duct insulation:
      a. Apply 1 coat of latex paint on insulation which has been sized or primed under other Sections; apply 2 coats on such surfaces when unprepared.
      b. Match color of adjacent surfaces.
      c. Remove band before painting, and replace after painting.
   3. Hardware:
      a. Paint prime coated hardware to match adjacent surfaces;
      b. Paint metal portions of head seals, jamb seals, and astragal seals to match the color of the door frame unless otherwise directed by the Architect.
   4. Exposed Vents: Apply 2 coats of heat resistant paint approved by the Architect.

3.03 INTERIOR PAINTING SCHEDULE

A. Gypsum Board
   1. Eggshell Finish: 2 finish coats over a primer where indicated.
      a. Primer
         1) Latex based, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.
         2) Product: As selected by the Architect.
      b. First and Second Coats
         1) Low luster eggshell, acrylic-latex based, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.8 mils.
         2) Product: As selected by the Architect.
   2. Semigloss Acrylic Enamel Finish: 2 finish coats over a primer at “wet areas” and where indicated.
      a. Primer
         1) Latex based, interior primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.
         2) Product: As selected by the Architect.
      b. First and Second Coats
         1) Semigloss, acrylic latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.
         2) Product: As selected by the Architect.
B.  Ferrous Metal  
   1. Semigloss, Acrylic Enamel Finish: 1 finish coat over an enamel undercoat and a primer. Primer is not required on shop-primed items.  
      a. Primer  
         1) Quick drying, rust-inhibitive alkyd based or epoxy metal primer, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.5 mils.  
         2) Product: As selected by the Architect.  
      b. Undercoat  
         1) Alkyd, interior enamel undercoat or semigloss, acrylic latex, interior enamel, as recommended by the manufacturer for this substrate, applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3 mils.  
         2) Product: As selected by the Architect.  
      c. Finish Coat  
         1) Semigloss, acrylic latex, interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.3 mils.  
         2) Product: As selected by the Architect.  

C.  Galvanized Metal  
   1. Semigloss, Acrylic Enamel Finish: 2 finish coats over a primer.  
      a. Primer  
         1) Galvanized metal primer applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 1.2 mils.  
         2) Product: As selected by the Architect.  
      b. First and Second Coats  
         1) Semigloss, acrylic latex interior enamel applied at spreading rate recommended by the manufacturer to achieve a total dry film thickness of not less than 2.6 mils.  
         2) Product: As selected by the Architect.  

END OF SECTION
PART 1 - GENERAL

1.01 PROJECT DESCRIPTION

A. The Laney College Administrative Tower has an existing wet-pipe fire protection system. The 8-inch main firewater pipe with a check valve is located in the basement and then distributes to the fire hose cabinets located in the corridors and standpipes with hose connections in the stairwells. Refer to photos 1 and 2. The 9th floor (top floor) has an existing wet-pipe sprinkler system and the only sprinkler space in the building. The rehabilitations to Laney College Administrative Tower will remove the hard ceilings in the corridors with acoustical suspended ceilings and the walls will then be modified to become one-hour fire walls. The intent is to provide a wet-pipe sprinkler system in the corridors as directed by DSA. The 9th floor sprinkler heads will also be replaced with new. Work shall also involve evaluation of existing fire protection system and providing the necessary fixes for a complete and functional system. Provide a complete working installation with all equipment called for in proper operating condition. This specification does not undertake to show or list every item to be provided. When an item not shown or listed is clearly necessary for proper operation of equipment, which is shown or listed, provide an item, which will allow the system to function properly at no increase in the Contract Amount.

Photo 1: Typical Fire Hose Cabinet

Photo 2: Typical Stairwell Standpipe with Hose Connection

1.02 SUMMARY

A. Fire sprinkler system to be design-build. Design-build contractor to furnish on a design-build basis, all equipment, materials, tools, engineering drawings stamped and signed by a Professional licensed California Fire Protection Engineer, and accessories, necessary for complete fire protection system, with said system being made ready for operation in accordance with the requirements of the authorities having jurisdiction. The purpose of this specification is to convey to the Contractor the scope of design/build work required, all of which the Contractor is responsible to furnish, install, adjust and make operable. The Contractor shall submit the specifications, drawings and calculations to DSA for approval.
B. The omission of any necessary system component as required by the authorities having jurisdiction shall not relieve the Contractor of the responsibility for providing such necessity, without additional cost to the Owner. The Contractor shall visit the site before submitting the bid and shall examine all existing physical conditions that may be material to the performance of the work. No extra payments will be allowed to the Contractor as a result of extra work made necessary by his failure to do so. Any case of error, omission, discrepancy or lack of clarity shall be promptly identified to the Owner for clarification prior to bid due date.

C. The Contractor shall provide all devices and equipment required by this specification. Under no circumstances will the Contractor delete any equipment or devices without the written directive from the Owner.

D. This Section includes the following fire-suppression piping inside the building:
   1. Automatic wet-type, Class I standpipe systems.
   2. Wet-pipe sprinkler systems.

E. See Division 10 Section "Fire-Protection Specialties" for cabinets and fire extinguishers.

F. See Division 13 Section "Fire Alarm" for alarm devices not specified in this Section.

1.03 SYSTEM DESCRIPTIONS

A. Combined Standpipe and Sprinkler System: Fire-suppression system with both standpipe and sprinkler systems. Sprinkler system is supplied from standpipe system.

B. Wet-Pipe Sprinkler System: Automatic sprinklers are attached to piping containing water and that is connected to water supply. Water discharges immediately from sprinklers when they are opened. Sprinklers open when heat melts fusible link or destroys frangible device. Hose connections are included if indicated.

1.04 PERFORMANCE REQUIREMENTS


B. Fire-suppression sprinkler system design shall be approved by the authorities having jurisdiction.

C. Work provided under this section shall include, but not be limited to, complete automatic sprinkler as outlined in this section, including all labor, materials and shop drawings needed to provide an operating system, and all of the following:
   1. Connection to private fire service mains.
   2. Automatic sprinklers and appropriate escutcheons.
   3. Control and check valves.
   4. Drain and test valves.
   5. Pipe, fittings, and auxiliary drains.
   6. Hangers and supports including earthquake protection, including any required calculations.
7. Sleeves including firestopping and watertight caulking.

8. Ceiling and wall plates.

9. Cutting and patching.

10. Signs.

11. Fire department connection(s).

12. Waterflow alarms (paddle-type and pressure-type).


14. Coordination with all other trades.

15. Shop drawings, hydraulic calculations, device manufacturer’s literature, samples.

16. Hydrostatic tests, Contractor’s Material and Test Certificates and as-built drawings.

17. Training and operating instructions.

18. All permits and fees for this work.

1.05 SUBMITTALS

A. Product Data: For each product indicated.

B. Approved Sprinkler Piping Drawings: Working plans, prepared according to NFPA 13, that have been stamped and signed by a California licensed Professional Fire Protection Engineer and approved by authorities having jurisdiction, including hydraulic calculations, if applicable.

C. Field test reports and certificates.

D. Field quality-control test reports.

E. Operation and maintenance data.

1.06 DESIGN CRITERIA

A. Automatic fire sprinkler systems shall be designed for the occupancy type indicated on the design drawings, and shall utilize quick response sprinklers unless otherwise specified. Wet-pipe systems shall be installed in all areas. The minimum acceptable design shall be in accordance with NFPA and the following:

1. Corridors shall be classified as Light Hazard occupancy, and shall be designed using a density of 0.10 gpm/ square feet over a minimum 1,500 square feet design area.

B. Hydraulic Calculations shall be performed in accordance with NFPA 13. A minimum 10-psi cushion or safety factor/margin, between the available pressure and the calculated required pressure shall be incorporated into all hydraulic calculations.
C. Contractor shall provide system demands at base of risers. System demands shall be confirmed to be below available supply. Available water supply at risers shall be coordinated with the available suction pressure.

D. All material, design, installation and other work shall conform to all applicable regulatory agencies, including the following:
   1. State and local building codes and ordinances, and agencies,
   2. City of Oakland Fire Protection District requirements.
   3. State Fire Marshal requirements.

E. Contractor shall include all costs associated with complying with the applicable regulatory agencies. Failure to specifically reference on these plans and/or specifications any restrictions, materials and/or work required by the regulatory agencies shall not relieve the Contractor of the responsibility for fully complying with the regulatory agencies without additional cost to the Owner.

1.07 QUALITY ASSURANCE

A. Installer Qualifications: Installer's responsibilities include designing, fabricating, and installing fire-suppression systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of fire-hydrant flow test.
   1. Engineering Responsibility: Preparation of working plans, calculations, and field test reports by a qualified professional engineer.

B. NFPA Standards: Fire-suppression-system equipment, specialties, accessories, installation, and testing shall comply with the following:
   1. NFPA 13, "Installation of Sprinkler Systems."
   2. NFPA 14, "Installation of Standpipe, Private Hydrant, and Hose Systems."

1.08 PROJECT CONDITIONS

A. Interruption of Existing Sprinkler Service: Do not interrupt sprinkler service to facilities occupied by the Owner or others unless permitted under the following conditions and then only after arranging to provide temporary service according to requirements indicated:
   1. Notify Owner no fewer than 5 days in advance of proposed interruption of sprinkler service.
   2. Do not proceed with interruption of sprinkler service without Owner’s written permission.

PART 2 - PRODUCTS

2.01 GENERAL

A. All components shall be UL listed or FM approved for the intended purpose. Components shall be used in accordance with the manufacturer's recommendations and its UL listing and/or FM approval.
B. The naming of manufacturers in the specifications shall not be construed as eliminating the materials, products or services of other manufacturers and suppliers providing approved equivalent items.

C. The substitutions of materials or products other than those named in the specifications are subject to proper approval of the Owner granted in writing.

2.02 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.

2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.03 STEEL PIPE AND FITTINGS

A. Threaded-End, Schedule 40 Black Steel Pipe: ASTM A 53/A 53M, ASTM A 135, or ASTM A 795, hot-dip galvanized where exposed to atmosphere and with factory- or field-formed threaded ends.

5. Steel Threaded Couplings: ASTM A 865 hot-dip galvanized-steel pipe where exposed to atmosphere.

B. Grooved-End, Schedule 40 Black Steel Pipe: ASTM A 53/A 53M, ASTM A 135, or ASTM A 795, hot-dip galvanized where exposed to atmosphere and with factory- or field-formed, square-cut- or roll-grooved ends.

1. Grooved-Joint Piping Systems:
   a. Manufacturers:
      1) Victaulic Company.
      2) Or Approved Equal.
   b. Grooved-End Fittings: UL-listed, ASTM A 536, ductile-iron casting with OD matching steel-pipe OD.
   c. Grooved-End-Pipe Couplings: UL 213 and AWWA C606, rigid pattern, unless otherwise indicated; gasketed fitting matching steel-pipe OD. Include ductile-iron housing with keys matching steel-pipe and fitting grooves, rubber gasket listed for use with housing, and steel bolts and nuts.
2.04 **SPRINKLER SPECIALTY FITTINGS**

A. Sprinkler specialty fittings shall be UL listed or FMG approved, with 175-psig minimum working-pressure rating, and made of materials compatible with piping.

B. Outlet Specialty Fittings:

1. Manufacturers:
   a. Victaulic Company.
   b. Or Approved Equal

2. Mechanical-T and -Cross Fittings: UL 213, ductile-iron housing with gaskets, bolts and nuts, and threaded, locking-lug, or grooved outlets.

3. Snap-On and Strapless Outlet Fittings: UL 213, ductile-iron housing or casting with gasket and threaded outlet.

C. Sprinkler Drain and Alarm Test Fittings: Cast- or ductile-iron body; with threaded or locking-lug inlet and outlet, test valve, and orifice and sight glass.

   1. Manufacturers:
      a. Viking Corp.
      b. Victaulic Company.
      c. Or Approved Equal

D. Drop-Nipple Fittings: UL 1474, adjustable with threaded inlet and outlet, and seals.

   1. Manufacturers:
      a. CECA, LLC.
      b. Merit.

2.05 **LISTED FIRE-PROTECTION VALVES**

A. Valves shall be UL listed or FMG approved, with 175-psig minimum pressure rating.

B. Gate Valves with Wall Indicator Posts:

1. Gate Valves: UL 262, cast-iron body, bronze mounted, with solid disc, nonrising stem, operating nut, and flanged ends.

2. Indicator Posts: UL 789, horizontal-wall type, cast-iron body, with hand wheel, extension rod, locking device, and cast-iron barrel.

3. Manufacturers:
   b. McWane, Inc.; Kennedy Valve Div.
   c. NIBCO.
   d. Or Approved Equal.

C. Butterfly Valves: UL 1091.

1. NPS 2 and Smaller: Bronze body with threaded ends.
   a. Manufacturers:
      1) Global Safety Products, Inc.
2) Milwaukee Valve Company.

2. NPS 2-1/2 and Larger: Bronze, cast-iron, or ductile-iron body; wafer type or with grooved ends.
   a. Manufacturers:
      1) Mueller Company.
      2) Victaulic Company.
      3) Or Approved Equal.

D. Check Valves NPS 2 and Larger: UL 312, swing type, cast-iron body with flanged or grooved ends.
1. Manufacturers:
   a. Central Sprinkler Corp.
   b. Grinnell Fire Protection.
   c. Victaulic Company.
   d. Or Approved Equal.

E. Gate Valves: UL 262, OS&Y type.
1. NPS 2 and Smaller: Bronze body with threaded ends.
   a. Manufacturers:
      1) Crane Co.; Crane Valve Group; Crane Valves.
      2) NIBCO.
      3) United Brass Works, Inc.
      4) Or Approved Equal.

2. NPS 2-1/2 and Larger: Cast-iron body with flanged ends.
   a. Manufacturers:
      1) Clow Valve Co.
      2) Crane Co.; Crane Valve Group; Crane Valves.
      3) Mueller Company.
      4) Or Approved Equal.

F. Indicating Valves: UL 1091, with integral indicating device and ends matching connecting piping.
1. Indicator: Electrical, 115-V ac, prewired, single-circuit, supervisory switch.
2. NPS 2 and Smaller: Ball or butterfly valve with bronze body and threaded ends.
   a. Manufacturers:
      1) Milwaukee Valve Company.
      2) NIBCO.
      3) Victaulic Company.
      4) Or Approved Equal.

3. NPS 2-1/2 and Larger: Butterfly valve with cast- or ductile-iron body; wafer type or with flanged or grooved ends.
   a. Manufacturers:
      1) Central Sprinkler Corp.
      2) Grinnell Fire Protection.
      3) Victaulic Company.
2.06 UNLISTED GENERAL-DUTY VALVES

A. Check Valves NPS 2 and Smaller:  MSS SP-80, Type 4, Class 125 minimum, swing type with bronze body, nonmetallic disc, and threaded ends.

B. Gate Valves NPS 2 and Smaller:  MSS SP-80, Type 2, Class 125 minimum, with bronze body, solid wedge, and threaded ends.

C. Globe Valves NPS 2 and Smaller:  MSS SP-80, Type 2, Class 125 minimum, with bronze body, nonmetallic disc, and threaded ends.

2.07 SPECIALTY VALVES

A. Sprinkler System Control Valves:  UL listed or FMG approved, cast- or ductile-iron body with flanged or grooved ends, and 175-psig minimum pressure rating.

1. Manufacturers:
   a. Central Sprinkler Corp.
   b. Grinnell Fire Protection.
   c. Victaulic Company.
   d. Or Approved Equal.

2. Alarm Check Valves:  UL 193, designed for horizontal or vertical installation, with bronze grooved seat with O-ring seals, single-hinge pin, and latch design. Include trim sets for bypass, drain, electrical sprinkler alarm switch, pressure gages, retarding chamber, and fill-line attachment with strainer.

   a. Drip Cup Assembly:  Pipe drain without valves and separate from main drain piping.
   b. Drip Cup Assembly:  Pipe drain with check valve to main drain piping.

B. Automatic Drain Valves:  UL 1726, NPS 3/4, ball-check device with threaded ends.

1. Manufacturers:
   a. AFAC Inc.
   b. Grinnell Fire Protection.
   c. Or Approved Equal.

2.08 SPRINKLERS

A. Sprinklers shall be UL listed or FMG approved, with 175-psig minimum pressure rating.

B. Manufacturers:

   1. Central Sprinkler Corp.
   2. Grinnell Fire Protection.
   3. Viking Corp.
   4. Or Approved Equal.

C. Automatic Sprinkler: Sprinkler shall be standard orifice (1/2-inch), quick-response type and have an ordinary temperature classification rating, unless otherwise indicated or required by application. Temperature ratings shall be 135-degrees Fahrenheit in all areas except where higher temperature ratings are required by NFPA 13 and in communication rooms, electrical rooms, control rooms,
computer rooms, mechanical rooms and telephone rooms which shall be 155-degrees Fahrenheit. Temperature ratings shall be 212-degrees Fahrenheit in elevator machine rooms.

D. Standard pendent sprinklers located in finished ceilings shall be semi-recessed chrome plated pendent type with white metallic escutcheons, similar to Viking Model Microfast with Model E-1 low-profile escutcheon. Sprinklers located in areas without finished ceiling shall be brass upright or pendent similar to Viking Model Microfast.

E. Special Coatings: Wax, lead, and corrosion-resistant paint.

F. Sprinkler Escutcheons: Materials, types, and finishes for the following sprinkler mounting applications. Escutcheons for concealed, flush, and recessed-type sprinklers are specified with sprinklers.
   1. Ceiling Mounting: Chrome-plated steel, one piece, flat.
   2. Sidewall Mounting: Chrome-plated steel, one piece, flat.

2.09 ALARM DEVICES

A. Alarm-device types shall match piping and equipment connections.

B. Water-Motor-Operated Alarm: UL 753, mechanical-operation type with pelton-wheel operator with shaft length, bearings, and sleeve to suit wall construction and 10-inch diameter, cast-aluminum alarm gong with red-enamel factory finish. Include NPS 3/4 inlet and NPS 1 drain connections.
   1. Manufacturers:
      a. Central Sprinkler Corp.
      b. Grinnell Fire Protection.
      c. Viking Corp.
      d. Or Approved Equal.

C. Water-Flow Indicator: UL 346, electrical-supervision, paddle-operated-type, water-flow detector with 250-psig pressure rating and designed for horizontal or vertical installation. Include two single-pole, double-throw circuit switches for isolated alarm and auxiliary contacts, 7 A, 125-V ac and 0.25 A, 24-V dc; complete with factory-set, field-adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed.
   1. Manufacturers:
      b. Viking Corp.
      d. Or Approved Equal.

2.10 PRESSURE GAGES

A. Manufacturers:
   1. AGF Manufacturing Co.
   2. AMETEK, Inc.; U.S. Gauge.
   4. Or Approved Equal.
B. Description: UL 393, 3-1/2- to 4-1/2-inch diameter, dial pressure gage with range of 0 to 250 psig minimum.
   1. Water System Piping: Include caption "WATER" or "AIR/WATER" on dial face.
   2. Air System Piping: Include retard feature and caption "AIR" or "AIR/WATER" on dial face.

2.11 FIRE DEPARTMENT CONNECTIONS

A. Fire Department Connections are existing and shall be replaced if deemed necessary.

PART 3 - EXECUTION

3.01 PIPING APPLICATIONS, GENERAL

A. Flanges, flanged fittings, unions, nipples, and transition and special fittings with finish and pressure ratings same as or higher than system's pressure rating may be used in aboveground applications, unless otherwise indicated.

B. Underground Service-Entrance Piping: Ductile-iron, thickness class 54 for 4-inch and smaller and thickness class 56 for 6-inch and larger, mechanical-joint pipe and fittings and restrained joints.

3.02 STANDPIPE SYSTEM PIPING APPLICATIONS

A. Threaded-end, black or galvanized, standard-weight steel pipe; cast- or malleable-iron threaded fittings; and threaded joints.

B. Grooved-end, black or galvanized, standard-weight steel pipe with square-cut- or roll-grooved ends; grooved-end fittings; grooved-end-pipe couplings; and grooved joints.

3.03 SPRINKLER SYSTEM PIPING APPLICATIONS

A. NPS 1-1/2 and Smaller: Threaded-end, black or galvanized, standard-weight steel pipe; cast- or malleable-iron threaded fittings; and threaded joints.

B. NPS 1-1/2 and Smaller: Plain-end, black or galvanized, standard-weight steel pipe; locking-lug fittings; and twist-locked joints.

C. NPS 2 and Larger: Threaded-end, black or galvanized, standard-weight steel pipe; cast- or malleable-iron threaded fittings; and threaded joints.

D. NPS 2 and Larger: Grooved-end, black or galvanized, standard-weight steel pipe; grooved-end fittings; grooved-end-pipe couplings; and grooved joints.

3.04 VALVE APPLICATIONS

A. Drawings indicate valve types to be used. Where specific valve types are not indicated, the following requirements apply:
   1. Listed Fire-Protection Valves: UL listed and FMG approved for applications where required by NFPA 13 and NFPA 14.
      a. Shutoff Duty: Use butterfly or gate valves.
2. Unlisted General-Duty Valves: For applications where UL-listed and FMG-approved valves are not required by NFPA 13 and NFPA 14.
   a. Shutoff Duty: Use butterfly or gate valves.
   b. Throttling Duty: Use globe valves.

3.05 JOINT CONSTRUCTION

A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for basic piping joint construction.

B. Threaded Joints: Comply with NFPA 13 for pipe thickness and threads. Do not thread pipe smaller than NPS 8 with wall thickness less than Schedule 40 unless approved by authorities having jurisdiction and threads are checked by a ring gage and comply with ASME B1.20.1.

C. Twist-Locked Joints: Insert plain-end piping into locking-lug fitting and rotate retainer lug one-quarter turn.

D. Pressure-Sealed Joints: Use UL-listed tool and procedure. Include use of specific equipment, pressure-sealing tool, and accessories.

E. Grooved Joints: Assemble joints with listed coupling and gasket, lubricant, and bolts.
   2. Steel Pipe: Square-cut or roll-groove piping as indicated. Use grooved-end fittings and rigid, grooved-end-pipe couplings, unless otherwise indicated.
   3. Dry-Pipe Systems: Use fittings and gaskets listed for dry-pipe service.

3.06 WATER-SUPPLY CONNECTION

A. Connect fire-suppression piping to the existing building's interior water distribution piping.

B. Install shutoff valve, pressure gage, drain, and other accessories indicated at connection to water distribution piping.

3.07 PIPING INSTALLATION

A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for basic piping installation.

B. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated, as far as practical.
   1. Deviations from approved working plans for piping require written approval from authorities having jurisdiction. File written approval with Architect before deviating from approved working plans.

C. Use approved fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.

D. Install unions adjacent to each valve in pipes NPS 2 and smaller. Unions are not required on flanged devices or in piping installations using grooved joints.
E. Install flanges or flange adapters on valves, apparatus, and equipment having NPS 2-1/2 and larger connections.

F. Install "Inspector's Test Connections" in sprinkler system piping, complete with shutoff valve, sized and located according to NFPA 13.

G. Install sprinkler piping with drains for complete system drainage.

H. Install sprinkler zone control valves, test assemblies, and drain risers adjacent to standpipes when sprinkler piping is connected to standpipes.

I. Install drain valves on standpipes.

J. Install ball drip valves to drain piping between fire department connections and check valves. Drain to floor drain or outside building.

K. Install alarm devices in piping systems.

L. Hangers and Supports: Comply with NFPA 13 for hanger materials.
   1. Install standpipe system piping according to NFPA 14.
   2. Install sprinkler system piping according to NFPA 13.

M. Earthquake Protection: Install piping according to NFPA 13 to protect from earthquake damage. Comply with ASCE 7-05 requirements and the California Building Code.

N. Install pressure gages on riser or feed main, at each sprinkler test connection, and at top of each standpipe. Include pressure gages with connection not less than NPS 1/4 and with soft metal seated globe valve, arranged for draining pipe between gage and valve. Install gages to permit removal, and install where they will not be subject to freezing.

O. Fill wet-standpipe system piping with water.

P. Fill wet-pipe sprinkler system piping with water.

3.08 VALVE INSTALLATION

A. Install listed fire-protection valves, unlisted general-duty valves, specialty valves and trim, controls, and specialties according to NFPA 13 and NFPA 14 and authorities having jurisdiction.

B. Install listed fire-protection shutoff valves supervised-open, located to control sources of water supply except from fire department connections. Install permanent identification signs indicating portion of system controlled by each valve.

C. Install check valve in each water-supply connection. Install backflow preventers instead of check valves in potable-water supply sources.

D. Alarm Check Valves: Install in vertical position for proper direction of flow, including bypass check valve and retarding chamber drain-line connection.
3.09 SPRINKLER INSTALLATION

A. Install sprinklers in suspended ceilings in center of narrow dimension of acoustical ceiling panels and tiles.

B. Do not install pendent or sidewall, wet-type sprinklers in areas subject to freezing.

3.10 CONNECTIONS

A. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Install piping adjacent to equipment to allow service and maintenance.

C. Connect water-supply piping to fire-suppression piping.

D. Install ball drip valves at each check valve for fire department connection. Drain to floor drain or outside building.

E. Connect piping to specialty valves, hose valves, specialties, fire department connections, and accessories.

F. Electrical Connections: Power wiring and conduit shall be provided by the Contractor.

G. Connect alarm devices to fire alarm.

H. Ground equipment if necessary

I. Connect wiring according to National Electric Code.

3.11 LABELING AND IDENTIFICATION

A. Install labeling and pipe markers on equipment and piping according to requirements in NFPA 13 and NFPA 14.

B. Identify system components, wiring, cabling and terminals.

3.12 FIELD QUALITY CONTROL

A. Perform the following field tests and inspections and prepare test reports:

1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.

2. Flush, test, and inspect sprinkler systems according to NFPA 13, "Systems Acceptance" Chapter.

3. Flush, test, and inspect standpipe systems according to NFPA 14, "System Acceptance" Chapter.

4. Coordinate with fire alarm tests. Operate as required.

5. Verify that equipment hose threads are same as local fire department equipment.

B. Report test results promptly and in writing to the Owner and authorities having jurisdiction.

C. Sprinkler piping system will be considered defective if it does not pass tests and inspections.
D. Prepare test and inspection reports.

3.13 CLEANING

A. Clean dirt and debris from sprinklers.

B. Remove and replace sprinklers with paint other than factory finish.

END OF SECTION 201313
SECTION 26 00 50
GENERAL ELECTRICAL

PART 1 - GENERAL

1.1 DESCRIPTION

A. General: Furnish all labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working electrical installation, as shown on the drawings or described in these specifications.

B. Work Included:

1. Lighting fixtures and lamps
2. Grounding
3. Patching, fire safing and sealing
4. Wireways
5. Branch circuit wiring and devices
6. Emergency lighting and exit signs
7. panels and overcurrent devices
8. Fire alarm devices
9. Conduits, raceways and conductors and associated supports
10. Branch circuits, connections for equipment

C. Related Work Specified Elsewhere: Perform the following work, in accordance with appropriate sections of the specifications cited, where and as necessary to furnish a complete, working electrical installation.

1. Section 024120 – Selective Demolition
2. Section 030192 - Concrete
3. Section 099000 - Paints
4. Section 078400 - Fire stopping
5. Section 087100 - Door Hardware

1.2 REFERENCES

A. Codes and Regulations: The following publications or editions of the documents current at the time is project is on-going shall apply:

1. NEC National Electrical Code
2. CUBC - California Uniform Building Code
3. CUFC - California Uniform Fire Code
4. CCR - California Code of Regulations, Title 24
5. ADA - Americans with Disabilities Act
6. NFPA - National Fire Protection Association

B. Standards: Equipment and materials specified under this Division shall conform to the following standards where applicable:

1. UL - Underwriters' Laboratories
2. ASTM - American Society for Testing Materials
3. CBM - Certified Ballast Manufacturers
1.3 SUBMITTALS

A. Section 013300 - Submittals: Submittals.

B. Specific:

1. Submittals shall consist of detailed shop drawings, specifications, catalog "cuts" and data sheets containing physical and dimensioned information, performance data, electrical characteristics, materials used in fabrication, material finish and those optional accessories which are included and those which are excluded. In addition, include seismic data regarding installation and seismic withstand certification if applicable.

2. Each submittal shall be thoroughly reviewed by the contractor. The cover letter accompanying submittal letter shall list in full the items and data submitted and shall contain a statement acknowledging that the contractor has performed a detailed review of the submittal documents prior to submission. Failure to comply with this requirement shall constitute grounds for return of data for resubmission without review.

3. Contractor agrees that Shop Drawings submittals processed by the Engineer are not change-orders. The purpose of Shop Drawing submittals is to demonstrate to the Engineer that the Contractor understands the design concept. The Contractor demonstrates this understanding by indicating which equipment and material he intends to furnish and install, and by detailing the fabrication and installation methods he intends to use.

1.4 QUALITY ASSURANCE

A. Preparation, handling and installation shall be in accordance with manufacturer's written instructions and technical data particular to the product specified and/or approved except as otherwise specified. Coordinate work and cooperate with others in furnishing and placing this work. Work to approved shop drawings for work by others and to field measurements as necessary to properly fit the work.

B. Conform to the National Electrical Contractor's Association Standard of Installation for general installation practice.

1.5 DRAWINGS

A. Layout: General layout shown on the drawings shall be followed except where other work may conflict with the drawings.

B. Accuracy:

1. Drawings for the work under this section are diagrammatic.

2. Contractor shall verify lines, levels and dimensions shown on the drawings and shall be responsible for the accuracy of the setting out of work and for its strict conformance with existing conditions at the site.
1.6 SUBSTITUTIONS

A. Section 01330 - Submittals: Substitutions.

1.7 PRODUCT DELIVERY, STORAGE AND HANDLING:

A. Section 01660 - Materials and Equipment: transporting, handling, staging and protecting products.

B. Equipment and materials shall be properly stored and adequately protected and carefully handled to prevent damage before and during installation. Equipment and materials shall be handled, stored, and protected in accordance with the manufacturer's recommendations and as approved by the Owner. Electrical conduit shall be stored to provide protection from the weather and accidental damage. Plastic conduit shall be stored on even supports and in locations not subject to direct sun rays or excessive heat. Cables shall be sealed, stored and handled carefully to avoid damage to the outer covering or insulation and damage from moisture and weather. Damaged or defective items, in the opinion of the Architect or Engineer shall be replaced with new items at no cost to the Owner.

1.8 PERMITS AND FEES:

A. Provide, procure and pay for all permits, licenses and fees required to carry on and complete the work.

PART 2 - PRODUCTS (Not applicable)

PART 3 - EXECUTION

3.1 TESTS

A. Tests shall be conducted during the construction period and at completion to determine conformity with applicable codes and with these specifications. Tests shall be performed in the presence of the Owner's Representative, and shall include, but are not limited to, the following:

1. Insulation Resistance: Perform 1000-volt D.C. tests for one minute on all 480 volt feeders and 500-volt D.C. tests on 208 volt feeder conductors, including the neutral, and make a typed record of all readings to be included in the maintenance instructions. Submit record for approval to Engineer. Repair or replace circuits showing less than 4 megohms resistance to ground. Make tests using Biddle Insulation Resistance Megger, or equal.

2. Circuits Continuity: Test all feeder and branch for continuity. Test all neutrals for improper grounds.

3. Equipment Operations: Test lighting circuits for correct operation through their control devices, including occupancy sensors and time switch controls.

4. Lighting Control Circuits: Perform operation tests for all lighting circuits.

5. Circuit Numbering Verification: Select on a random basis various circuit
breakers in the panelboards and cycle them on and off to verify compliance of the typed panel directories with actual field wiring.

6. Ground Fault Equipment: Test all ground fault sensing and trip control equipment in accordance with manufacturers instruction and NEC. Submit test results. Field verify that wiring is correctly connected and set pickup point and time delay as follows:

7. Product Failure: Any products which fail during the tests or are ruled unsatisfactory by the Owner shall be replaced, repaired, or corrected as prescribed by the Owner at the expense of the Contractor. Tests shall be performed after repairs, replacements or corrections until satisfactory performance is demonstrated.

8. Contractor to provide a written report to the owner.

3.2 INSTRUCTIONS AND MANUALS

A. Section 01783 - Operation and Maintenance Data: Instruction manuals.

B. At the time of completion, an adequate period shall be allotted by the Contractor for instruction of building operating and maintenance personnel in the use of all systems. All personnel shall be instructed at one time, the Contractor making all necessary arrangements with manufacturer's representatives. The Equipment Manufacturer shall provide product literature and application guides for the Users' reference.

C. Costs, if any, for the above services, shall be paid for by the Contractor.

3.3 PROJECT RECORD DOCUMENTS (RECORD DRAWINGS)

A. Provide project record drawings and specifications as required by other sections of the specifications and as required herein. Such drawings shall fully represent installed conditions including actual location of outlets, true panelboard connections following phase balancing routines, correct conduit and wire sizing as well as routing, revised fixture scheduling listing the Manufacturer and products actually installed and revised panel schedules. All changes to drawings shall be made by qualified draftspersons to match existing line work and lettering as closely as possible.

3.4 SCHEDULE OF WORK

A. Arrange work to conform to the schedule which has been established for the progress of the work. Advise regarding shipping schedule of major equipment.

3.5 SUPERVISION

A. Contractor shall personally or through an authorized and competent representative constantly supervise the work from beginning to completion and, within reason, keep the same workmen and foreman on the project throughout the project duration.

3.6 PROTECTION
A. Keep conduits, junction boxes, outlet boxes, and other openings closed to prevent entry of foreign matter. Cover fixtures, equipment and apparatus and protect against dirt, paint, water, chemical or mechanical damage, before and during construction period. Restore to original condition any fixture, apparatus, or equipment damaged prior to final acceptance, including restoration of damaged shop coats of paints, before final acceptance. Protect bright finished surfaces and similar items until in service. No rust or damage will be permitted.

3.7 SPECIAL TOOLS

A. All special tools for proper operation and maintenance of the equipment provided under this section shall be delivered to the Owner's representative.

3.8 SEISMIC BRACING

A. All electrical components shall be braced and supported to conform to California Code of Regulations, CBC 1632 (1998) and shall accommodate displacements per CBC 1630.10 (1998).

3.9 CUTTING AND PATCHING

A. Install all required sleeves, forms and insets before walls or partitions are built. Cutting and patching of walls, partitions, ceilings and floor necessary for reception of work, cause by failure to provide or properly located sleeves, forms and inserts, incorrect location of work or failure to cooperate with other trades, shall be done at expense of trade responsible.

B. No cutting of finished or structural work may be done without acceptance. When necessary to have finished material or structural work cut, finish necessary drawings to trade whose materials are out to be cut.

3.10 CLEARANCES

A. Provide necessary working clearances in front, above, and to sides for all electrical equipment as required by the National Electrical Code Article 110.

B. No non-electrical pipes or ducts shall pass directly over switchboards or panelboards. Where non-electrical pipes or ducts are found above switchboards or panelboards provide suitable structural ceiling below such pipes and ducts so that the conduits can be run from switchboards or panelboards and be properly supported from said ceiling. Ceiling construction shall be as approved by Architect.

END OF SECTION
PART 1 - GENERAL

1.1 DESCRIPTION

A. Work Included
   1. Furnishing, installation and connection of all fixtures, lamps, ballasts, lighting control devices, related components and accessory wiring as shown on the plans, Fixture Schedule or as specified herein.

B. Related Sections:
   1. Section 26 00 50 - General Requirements.

1.2 REFERENCES

A. ANSI C82.2
B. ASTM C635 AND E580.
C. NFPA 70.
D. UL 57, 924, 935
E. CCR TL24.
F. CBM.

1.3 SUBMITTALS

A. Submit in conformance with the requirements of Section 26 00 50 the following items:
   1. Catalog and photometric data for all lighting fixtures
   2. Shop drawings for all special fixtures
   3. Control devices, relays, lighting control panels, and cabinets

1.4 COORDINATION

A. Refer to Architectural Plans for exact location of lighting fixtures installed on exterior and interior of buildings and walkways.

PART 2 - PRODUCTS

2.1 LAMPS

A. Lamps shall be as manufactured by G.E., Sylvania/Osram, VEnture and Philips only.

B. Incandescent Lamps: General purpose A-base lamps shall be inside frosted, rated 125 VAC, or as noted on Fixture Schedule.

C. Fluorescent Lamps
   1. 24, 36 and 48 inch long lamps, shall be instant start energy saving T-8
Ocron triphosphor 3500 degree K, 85 CRI. 32watt super T8, minimum 3100 lumen 24000 hour rated life, 85CRI

2. Compact twin-tube and double twin-tube, 7, 9, 13, 18 and 26 watts nominal, triphosphor 3500 degree K, 82 CRI

D. Metal Halide Lamps: Clear bulb, medium or mogul base as required, 4000 degrees K, 65 CRI, pulse-start, position oriented type, as manufactured by Venture Lighting Uniform pulse start systems. Minimum average lamp life for 250 watt lamps shall be 15,000 hours.

2.2 BALLASTS

A. Ballasts shall be as manufactured by Advance, Etta, Valmont, or Magnetek. Minimum warranty shall be five years.

B. Fluorescent Lamp Ballasts

1. Ballasts for all 36" and shorter single tube fluorescent lamps shall be UL approved, CBM certified or ETL tested, Class P, Sound Rated A., "full output" energy-saving ballasts as follows: Advance Mark III; General Electric Maxi-Miser II; Jefferson Energy Lok; Universal SLH Watt Reducer or approved equal.

2. Ballasts for 48" long fluorescent lamps shall be full-electronic, instant start lamp type, for T8 lamps, with harmonic distortion <20% THD; Magnetek, ETTA, Advance or Venture.

3. Ballasts for compact fluorescent lamps shall be electronic-type with high power factor, as manufactured by Advance, ETI, or equal.

4. Ballasts shall be approved for use with energy saving lamps by the lamp manufacturer.

5. Ballast description, identifying manufacturer and product number, must be submitted with lighting fixture submittal.

6. Fluorescent lamp ballast and luminaires shall be certified by the manufacturer to comply with the CCR Appliance Standards for Fluorescent Ballasts (Section 2-5314, Table 53-G, Item 7).

B. Metal Halide Ballasts

1. Ballasts shall be of suitable type for Venture Uniform pulse-start MH lamps as specified. Ballasts shall operate lamps at full light output as published by lamp manufacturer.

2.3 REFRACTORS, REFLECTORS AND LOUVERS

A. All glassware, plastic and metal shall be uniform, free from defects, and photometrically tested for distribution by an independent testing laboratory.
B. Plastic diffusers shall be of virgin acrylic plastic.

C. Polished reflectors used with triphosphor compact lamps shall have anti-iridescent optical coating.

2.4 LIGHTING CONTROL PANELS & OCCUPANCY SENSORS

A. Provide lighting control panels as manufactured by Delta Controls. Local Delta Controls representative is Brad Cox at EMCOR and can be contacted at 510-670-1690.

B. Occupancy sensors for lighting control within the offices shall be Wattstopper or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Contractor shall be responsible for handling, and fixtures shall be plumb, level, in straight lines without distortion and clean.

B. Install each fixture in a manner recommended by the fixture manufacturer and approved by the Architect. Under this Section of the work, furnish and install all additional ceiling bracing, hanger supports and other structural reinforcements to the building required to properly and safely suspend fixtures, all as approved by the Architect.

C. Surface mounted exterior mounted fixtures shall have silicon caulking installed to maintain water tightness of outlet and wiring.

D. Fixtures in areas of exposed duct and pipe work shall be suspended to avoid conflict with same.

E. Pendant fixtures shall be provided with ball aligners and sway adapters. Fixture chain shall not be used for supporting fixtures. In addition to pendant conduits, install an 1/8” diameter stranded steel safety wire, secured to outlet box independent of pendant canopy, and secured to fixture independent of pendant connection.

F. Ballasts: Ballasts judged by the Architect to be noisy and failed or malfunctioning ballasts shall be replaced at no expense to the owner within 12 months after installation is completed.

3.2 FIXTURE SUPPORT - SUSPENDED CEILINGS

A. Fixture support - Suspended Ceilings: Ceiling members of suspended ceilings systems used to support fixtures shall be securely fastened to each other and shall securely attached to the building structure at appropriate intervals. Fixtures so supported shall be securely fastened to the ceiling framing members by mechanical means, such as bolts, screws or rivets. Clips identified for use with the type of
ceiling framing member and fixture shall also be permitted.

B. In addition, the following shall apply:

1. Only "intermediate" and "heavy duty" ceiling systems may be used for the support of lighting fixtures.

2. When intermediate systems are used recessed fixtures weighting less than 20 lbs. shall have wires attached to the grid members within three inches of each corner of the fixture and secured to the main runners of the suspended ceiling system by bolts, screws, rivets or approved clips. Fixtures may also be secured from support members using black iron wire No.10 gauge, or other approved supports tied in a secure manner to the main runners.

3. All recessed lighting fixtures weighting 20 lbs or more but less than 56 lbs. shall have, in addition to the requirements set forth in NEC 410-16(c)2, #12 gauge minimum hanger wires connected from the fixture housing to the ceiling system hangers or to the structure above (These wires may be slack and may be the continuous looped end of the ceiling hanger wires).

4. Where heavy duty systems as defined in ASTM C 635-76 are installed, supplemental hangers wires as set forth in NEC 410-16(c)2 are not required if a 48 inches modular hanger pattern is followed.

5. Surface mounted fixtures shall be supported directly to the structure above by approved hangers.

6. Pendant mounted industrial fluorescent fixtures shall be provided with heavy-duty swivel aligner canopies.

7. See architectural general notes for required testing of hanger and bracing wires.

END OF SECTION
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 10: Summary of Changes to Chevron Drawings (2 pages)
ARCHITECTURAL

A1  A2.0  Reflected Ceiling Plans, 2nd and 3rd Floors. Revised ceiling layout to accommodate floor plan revisions.

A1  A2.1  Reflected Ceiling Plans, 2nd and 3rd Floors. Revised ceiling layout to accommodate floor plan revisions. Note no plan revisions to 5th Floor, keynote clarifications only.

A1  A2.2  Reflected Ceiling Plans, 2nd and 3rd Floors. Revised ceiling layout to accommodate floor plan revisions.

A1  A2.3  Reflected Ceiling Plans, 2nd and 3rd Floors. Revised ceiling layout to accommodate floor plan revisions.

ELECTRICAL

E1  E1.0  Sheet E1 is replaced with E1.0 Panels on previous sheets (E2 & E4) now moved onto this sheet.

E2  E2.0  Sheet added to show lighting modifications on basement level.

E3  E2.0B  Sheet added to show power and communications modifications on the basement level.

E4  E2.2A  Sheet E2 is replaced with E2.2A to show the lighting work on the 2nd floor. Lights were added as noted with recessed cans show to replaced what was formerly shown as 2 x 2 recessed fluorescent units.

E5  E2.2B  Sheet added to show power and communications work on the 2nd floor.

E6  E2.3A  Sheet E3 replaced with E2.2A to show the lighting work on the 3rd floor. Rooms at the two of the corners of the building had added lights.

E7  E2.3B  Sheet added to show power and communications work on the 3rd floor.

E8  E2.4A  Sheet E4 replaced with E2.4A to show the lighting work on the 4th floor. Lights were added at one corner of the building.

E9  E2.4B  Sheet added to show power and communications work on the 4th floor.

E10 E2.5A  Sheet E5 replaced with E2.5A to show the lighting work on the 5th floor. Added lights in the middle of the building as noted.

E11 E2.5B  Sheet added to show power and communications work on the 5th floor.

E12 E2.6A  Sheet E6 replaced with E2.6A to show the lighting work on the 6th floor. Added occupancy sensor in the middle office area of the building as noted.

E14 E2.6B  Sheet added to show power and communications work on the 6th floor.

E15 E2.7A  Sheet E7 replaced with E2.7A to show the lighting work on the 7th floor. Added lights in the two corners of the building as noted.

E16 E2.7B  Sheet added to show power and communications work on the 7th floor.

E17 E2.8A  Sheet E8 replaced with E2.8A to show the lighting work on the 8th floor. Added lights at two corners and the middle of the building as noted.

E18 E2.8B  Sheet added to show power and communications work on the 8th floor.

E19 E2.9  Sheet added to show lighting, power, and communications on the 9th floor.
MECHANICAL

M1  M-03  (N) VAV-1,4,5, and 6 shall be wireless devices

M2  M-04  Add one more diffuser to 2nd floor

M3  M-06  7th Floor layout, delete one diffuser from FC-36. Increased CFM on the rest of the diffusers from 150 to 180 CFM.

M4  M-06  7th Floor layout: delete diffuser from FC-40. Increased CFM on rest of diffusers from 300 to 400 CFM
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 11: Updated Drawings from Chevron Energy Systems
ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

/Title
()
/Subject
(D:20110621112845-07’00’)
/ModDate
()
/Keywords
(PDFCreator Version 0.9.5)
/Creator
(D:20110621112845-07’00’)
/CreationDate
(Joe)
/Author
-mark-
ERROR: syntaxerror
OFFENDING COMMAND: --nostingval--

STACK:
/Title
()!
/Subject
(D:20110621113205-07'00')!
/ModDate
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/CreationDate (Joe)
/Author -mark-
### GENERAL NOTES

1. All dimensions are given in feet and inches.
2. All materials shall comply with the latest edition of the United States Uniform Building Code.
3. All work shall be started immediately upon receipt of this design.

### TABLE 1

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### LEGEND

- [Legend item 1]
- [Legend item 2]
- [Legend item 3]

### DRAWING SHEET

- [Drawing title]
- [Revision/Submissions]
- [Architect Seal]
- [Reviewed]
- [Checked]
- [Scale]
- [Drawn]
- [Project No]
- [Date]
- [Designed]
- [Agency Approval Date]
- [Drawing No]

### FEED THRU LUGS

- [Section 1]
- [Section 2]
- [Section 3]

### ADDENDUM #2

- [06-23-11]

### COVER SHEET

- [E1.0]
ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL ADD UNTIL OTHERWISE NOTED.

SECOND FLOOR POWER DEMOLITION PLAN

SECOND FLOOR POWER PLAN

GENERAL NOTES:
1. COMPLETE ALL WORK TO MEET THE ELECTRICAL CODES OF THE CITY OF SAN FRANCISCO AND OTHER MUNICIPAL CODES
2. IF THE CIRCUIT IS REQUIRED FOR HOSPITAL USE, FOLLOW ALL OTHER APPROPRIATE CODES
3. ELECTRICAL INSTALLATIONS ARE SUBJECT TO LATER ENGINEERING AND ARCHITECTURAL REVIEWS
4. ALL ELECTRICAL PLANS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE
5. BREAKER BOXES AND ELECTRICAL PANELS ARE TO BE SECURED WITH NON-CONDUCTIVE FASTENERS
6. ALL ELECTRICAL WORK MUST BE APPROVED BY THE ELECTRICAL ENGINEERING DEPARTMENT
7. PROVIDE ALL ELECTRICAL PANELS WITH NEUTRAL AND GROUND WIRE PROTECTION PROPERLY CONNECTED AND CIRCUIT BREAKERS INSTALLED TO THE NATIONAL ELECTRICAL CODE
8. ALL ASSEMBLY PARTS MUST BE ASSEMBLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE
9. PROVIDE ALL MOUNTING BRACKETS WITH PROPER SIZE AND MATERIALS TO MEET THE CITY OF SAN FRANCISCO ELECTRICAL CODE

SHEET NOTES:
1. REMOVE ALL ELECTRICAL PANELS
2. REMOVE ALL ELECTRICAL WIRING
3. REMOVE ALL ELECTRICAL BOXES
4. REMOVED ALL ELECTRICAL MOUNTING BRACKETS
5. REMOVE ALL ELECTRICAL FIXTURES
6. REMOVE ALL ELECTRICAL METER BASES
7. REMOVE ALL ELECTRICAL FUSE BOXES
8. REMOVE ALL ELECTRICAL PANEL BOXES
9. REMOVE ALL ELECTRICAL CIRCUIT BREAKERS
10. REMOVE ALL ELECTRICAL CONDUIT
ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL 'AD2L' UNLESS OTHERWISE NOTED.
ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL AD4L UNLESS OTHERWISE NOTED.
ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL AD4L UNLESS OTHERWISE NOTED.
ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL AD6L UNLESS OTHERWISE NOTED.
ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL ‘AD6L’ UNLESS OTHERWISE NOTED.

SEVENTH FLOOR POWER DEMOLITION PLAN

ENLARGED T751 COUNTER POWER PLAN

SEVENTH FLOOR POWER PLAN

GENERAL NOTES:
1. ALL BUILDING SYSTEMS AND BUILDING-FACILITY DISTRIBUTION SYSTEMS ARE TO BE SHOWN IN PLANS. THE LOCATION OF THE DISTRIBUTION POINTS IS TO BE SHOWN IN NEAT CONSTRUCTION DRAWINGS.
2. ALL BUILDING-SYSTEM PLANS ARE TO BE SHOWN IN A MANNER THAT IS CONSISTENT WITH THE DISTRIBUTION SYSTEM PLANS. THE LOCATION OF THE DISTRIBUTION POINTS IS TO BE SHOWN IN NEAT CONSTRUCTION DRAWINGS.
3. ALL BUILDING SYSTEMS ARE TO BE SHOWN IN A MANNER THAT IS CONSISTENT WITH THE DISTRIBUTION SYSTEM PLANS. THE LOCATION OF THE DISTRIBUTION POINTS IS TO BE SHOWN IN NEAT CONSTRUCTION DRAWINGS.
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SHEET NOTES:
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ALL CIRCUITS SHOWN IN THIS SHEET ARE IN PANEL 'AD8L' UNLESS OTHERWISE NOTED.
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 12: Updated Hazmat Report, 09/03/09 (96 pages)
September 3, 2009

MR. BIJAN BEIGI  
PERALTA COMMUNITY COLLEGE DISTRICT  
C/O CONSOLIDATED CONSTRUCTION MANAGEMENT  
180 GRAND AVENUE, SUITE 1520  
OAKLAND, CA 94612

RE:  Asbestos & Lead-Based Paint Abatement Specifications  
Laney College Administrative Tower  
Oakland, CA  
SCA Project No.: K-9219.AS

Dear Bijan:

Attached are SCA’s revised Design Documents for the Laney College Administrative Tower Renovation Project. In addition, we have provided our preliminary abatement cost estimate, which address the Chevron proposed mechanical modifications and the resultant removal of most ceiling areas throughout.

If you have any questions, please do not hesitate to contact me at (510) 267-2723 or gcass@sca-enviro.com

Sincerely,

SCA ENVIRONMENTAL, INC.

Glenn R. Cass, PE, CIH  
Vice President

Attachments: SCA Specifications (1 copy)
SPECIFICATIONS:
BULK ASBESTOS, LEAD-BASED PAINT AND
HAZARDOUS MATERIALS
LANEY COLLEGE ADMINISTRATIVE TOWER
900 FALLON STREET
OAKLAND, CALIFORNIA

PREPARED FOR:

MR. BIJAN BEIGI
PERALTA COMMUNITY COLLEGE DISTRICT
C/O CONSOLIDATED CONSTRUCTION MANAGEMENT
180 GRAND AVENUE, SUITE 1520
OAKLAND, CA 94612

PREPARED BY:

SCA
ENVIRONMENTAL, INC.

334 19th STREET
OAKLAND, CA 94612
TEL: (510) 645-6200
eFAX: (415) 962-0736

SCA PROJECT NO.: K-9219.AS

SEPTEMBER 3, 2009
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<td>Existing Hazardous Conditions</td>
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<td>Summary of Work</td>
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<td>Hazardous Materials Abatement &amp; Controls</td>
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DOCUMENT 00235

EXISTING CONDITIONS: HAZARDOUS MATERIALS

PART 1 - GENERAL

1.1 SUMMARY

A. This Document describes Reference Documents covering investigations of existing hazardous materials, including data identified in survey reports prepared by the Housing Authority’s Asbestos Control Program and the use of data resulting from various investigations. Documents available for review at the Housing Authority’s offices include the following:


B. Documents are available for review at the District’s Physical Plant offices at 355 Eighth Street, Oakland CA 94607.

1.2 HAZARDOUS MATERIALS REPORT(S) - SUMMARY INFORMATION

A. Asbestos Hazards: Certain existing building components or materials, which may or may not be impacted by the Work of this Project, are known or presumed to contain asbestos.

1. The following materials were tested and found to contain asbestos at concentrations greater than one percent (>1%):

   a) 9-inch square beige vinyl composite floor tiles with white streaks and black mastics over concrete substrates typical of the 2nd Floor Health Center and the 9th Floor Hallway and Elevator Lobby [SCA Sample I.D. FLVCT-104-1 & 2 with >1% Chrysotile in the tiles and 5% Chrysotile in the black mastics].

   b) 12-inch square off-white vinyl composite floor tiles with heavy gray and beige streaks and black mastics over concrete sampled in the 9th Floor Studio Areas [SCA Sample I.D. FLVCT-108-1 with 5% Chrysotile in the black mastics].

2. The following materials were not tested, but the Contractor, for purposes of this Contract, shall assume that these materials contain asbestos at greater than one tenth of one percent (>0.1%), and manage these materials as asbestos-containing:

   a) Fire doors at various Stairwells, Basement Mechanical and Electrical Rooms and Storage Rooms throughout [Sample I.D. DOOR-AAA, assumed ACM].

3. The following materials were tested and found to contain "trace amounts" (greater than 0.1 percent (>0.1%)) of asbestos:

   a) Sheetrock wallboard and joint compounds typical of the interior partitions throughout, sampled in Office T807, and within the Basement Women’s Toilet T-B106 [SCA Sample I.D. WLSH-209-1 & 2 with <1% CH composite].

   b) Sheetrock ceiling board and/or skim plaster over gypsum button board, sampled in the 1st Floor Telephone Room T100A and most floors Men’s Toilets and considered typical of the ceiling substrates throughout [SCA Sample I.D. CLSH-301-1 thru 9 with <1% Chrysotile composite].
4. The following suspect asbestos-containing materials were tested and found not to contain asbestos:

**Flooring Materials**

a) 12-inch square off-white vinyl composite floor tiles with gray streaks and yellow mastics over concrete substrates, sampled in the 1st Floor Telephone Room T100A. [SCA Sample I.D. FLVCT-101-1].

b) Typical yellowish-brown carpet mastics sampled in 2nd Floor Office T201A and various floor hallways and considered typical throughout [SCA Sample I.D. CPMAS-102-1 thru 8].

c) 2-inch square beige ceramic floor tiles with black grouts over concrete substrates typical of the Toilets throughout [SCA Sample I.D. FLCER-103-1].

d) 12-inch square off-white vinyl composite floor tiles with heavy blue streaks and yellow mastics over concrete, sampled at the 3rd Floor Elevator Lobby [SCA Sample I.D. FLVCT-105-1].

e) 12-inch square off-white vinyl composite floor tiles with gray and black streaks and yellow mastics sampled at the 4th & ____ Floor Elevator Lobbies [SCA Sample I.D. FLVCT-106-1 & 2].

f) 12-inch square reddish blue slate-like vinyl composite floor tiles with yellow mastics over concrete at 4th Floor Lounge T450 [SCA Sample I.D. FLVCT-107-1].

g) Newer 24-inch square slate-patterned vinyl composite floor tiles in the elevator cabs [Sample I.D. FLVCT-NNN].

h) 12-inch square beige streaked vinyl composite floor tiles with yellow and brown mastics over concrete substrates sampled at the 1st Floor Fire Command Center Room T-100B [SCA Sample I.D. FLVCT-109-1].

i) Peeling and scuffed gray paints on concrete floor in the Basement Hallway [SCA Sample I.D. PAINT-110-1].

j) Blackish gray anti-skid strips on the Basement Hallway floor [SCA Sample I.D. GRIP-111-1].

**Wall Materials**

a) Gray paints on core area concrete walls, sampled in the 1st Floor Lobby with plaster skimcoat over concrete substrates [SCA Sample I.D. PAINT/CONC-201-1].

b) 8-inch high black vinyl baseboards with beige mastics over concrete substrates sampled in the 1st Floor Lobby and typical throughout the 1st Floor [SCA Sample I.D. BBMAS-202-1].

c) Sandy textured wall plaster typical of the outer Hallway plaster walls, sampled throughout the building [SCA Sample I.D. WLPL-203-1 thru 11].

d) Whitish-grayish paints typical of the perimeter concrete walls, Hallway and Core Area walls and 6th Floor exposed concrete ceiling [SCA Sample I.D. PAINT/CONC-204-1 thru 9].

e) 5-inch high various colored vinyl baseboards with brown mastics over plaster, sheetrock and concrete substrates throughout most floors [SCA Sample I.D. BBMAS-206-1 thru 9].

f) 5-inch square white ceramic wall tiles over sheetrock or plaster substrates typical of the wet walls in the Toilets throughout [SCA Sample I.D. WLCER-207-1].

g) Sheetrock wallboard and joint compounds typical through interior partitions at various floors [SCA Sample I.D. WLSH-205-1 thru 8].

h) Newer Fiberglass reinforced wall panels at the Basement Men’s Toilet T-B108 [Sample I.D. FORMICA-NNN].

i) Sheetrock wallboard and joint compounds with heavy knockdown texturing typical of 5th Floor Offices T550 thru T553 [SCA Sample I.D. WLSH-208-1].
j) Screwed-on bulletin boards in the 1st Floor Hallway and throughout the floors [Sample I.D. BULLETIN-NNN].

Ceiling Materials
a) Typical ceiling plaster over gypsum button board typical of the Basement Men’s and Women’s Toilets [SCA Sample I.D. CLPL-302-1 & 2].
b) 24-inch square glued-on ceiling tiles in concrete waffle slab ceiling on the 1st Floor [Sample I.D. CLGL-NNN].

Miscellaneous Materials
a) Cream-colored Formica countertops sampled at the Cashier windows at 2nd Floor Office 201A, and the Basement Custodial Storage counters [SCA Sample I.D. FORMICA-401-1 & 2].
b) Gray Formica countertops at the Basement Women’s Toilet T-B106 [SCA Sample I.D. FORMICA-401-3].
c) Black perimeter interior window caulking around window frames at all floors, sampled in Rooms T115, T513 and the 1st Floor Lobby and considered typical throughout the perimeter facades [SCA Sample I.D. CAULK-402-1 thru 3].
d) Red firestop materials at the Basement Transformer Room T-B102 and 1st Floor Fire Command Center Room T100B [Sample I.D. FIRESTOP-NNN].
e) Fiberglass insulation on exposed heating and domestic hot water system piping with arabol wrap at various fittings viewed in the Basement Pump and Mechanical Room and considered typical throughout [Sample I.D. TSI-NNN].
f) Tan vinyl flexible connectors at various fan units at Basement Mechanical Room T-B104].

B. Lead Hazards: Certain existing painted or coated surfaces to be impacted by the Work of this Project are known or suspected to contain lead.

1. The following paints, coatings, or materials were tested and found to contain lead at concentrations at or above the U.S. Department of Housing and Urban Development (HUD) definition of a lead-containing material (either ≥1.0 mg/cm² or ≥0.5 percent (≥0.5%) lead by weight).
The following materials were not all tested but, the Contractor, for the purposes of this Contract, shall assume, and manage, them as lead containing.

a) plumbing components, such as pipes, fittings and solders.

b) roof flashings.

3. The following materials were tested and the concentrations of lead were found to be below the HUD definition of lead a containing material (<1.0 mg/cm² or <0.5 percent lead by weight). For OSHA compliance, therefore, the Contractor shall assume that, at a
minimum, some lead is “present” in all these materials and that they have the potential, until proven otherwise, to create a lead hazard.

a) See attached Lead Summary Table.

4. The Housing Authority has not verified that any paints, coatings, dusts, or materials are “lead free” or below 600 ppm except for overlying coatings applied since 1998.

1.1 USE OF DATA

A. Environmental consultation was obtained only for the use of the Housing Authority and its Consultants for planning and design stages of this Project. The above mentioned report(s) are not, as a whole, part of the Contract Documents, but the survey data contained therein can be relied upon by the Contractor to characterize general site conditions, although quantities, friability and other factors may have changed or been altered since the published report date(s).

B. All statements, findings, and interpretations in the above mentioned reports are those of the Survey or Abatement Consultant. The Housing Authority makes no representations, either expressed or implied, as to the completeness or adequacy of the above-mentioned reports. Bidders are advised that the limited testing of components allows for generalizations in describing the extent of hazardous materials. Specific components or materials, should be checked against the referenced survey report(s) and the Contract Documents, or be tested at affected locations, prior to disturbance of such components.

C. Bidders shall visit the site and acquaint themselves with the existing conditions.

1.2 PRE-BID VISIT TO WORK SITE

A. Prior to bidding, Bidders may make their own investigations to satisfy themselves as to the Site and subsurface conditions, but such investigations shall be performed only under the conditions set by the Housing Authority during the Bid Walk Phase.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF DOCUMENT
SECTION 01010

ABATEMENT WORK PLAN – SUMMARY OF WORK

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IX. MONITORING AND CLEARANCE ................................................................. 13
X. DIAGRAMS .................................................................................................. 13
The work covered by this work plan includes the removal, handling and disposal of various hazardous materials in accordance with applicable federal, state and local regulations at the designated site.

A copy of this Abatement Work Plan is to be posted on-site during the abatement work.

### I. Summary of Work (as designated)

<p>| | |</p>
<table>
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| X | Removal and disposal of asbestos-containing materials (ACM) as part of the District’s Renovation Program for Laney College Administrative Tower, including but not necessarily limited to the following:  
  - Abatement of ACM vinyl floor tiles and mastics under carpeting at Basement Security Office B101, and as indicated;  
  - Sheetrock wall and ceiling abatement as required for lighting replacements, HVAC system access, installation of new drinking fountains, patches and repairs at new baseboards and signage, and other miscellaneous renovations, as indicated [Note that the majority of ceilings throughout the site are abated with limited demolition of walls or cutouts as required for routing of ducts, piping and conduit]; and  
  - Abatement of sheetrock wall and ceiling board and joint compounds and full isolation lead demolition dust controls for ceramic tile assemblies at Toilet renovations throughout.  
  - Abatement of sheetrock wall and ceiling assemblies at various room renovations, as indicated [See Demolition Plans A2.1a thru A2.8a, Mechanical Demolition Plans MD-01 thru MD-04, and Electrical Demolition Plans E2 to E-8] |
| X | Scraping and stabilization of loose and peeling paints as required for disposal of intact painted elements as non-hazardous waste, including associated dust controls and personal protective procedures in compliance with Cal/OSHA's Construction Lead Standard, 8 CCR 1532.1 and CDPH regulation 17 CCR Sections 35001 through 36100. |
| X | Preparation and disposal of wastes for repainting, including dust controls and personal protective procedures for manual scraping or sanding and other "trigger 1" work activities in compliance with Cal/OSHA's Construction Lead Standard, 8 CCR 1532.1 and CDPH regulation 17 CCR Sections 35001 through 36100. |
| X | Demolition, removal and disposal of painted surfaces with lead ceramic glazing or lead-based paints (LBPs) whereby airborne exposures may exceed the permissible exposure level, requiring such work to be completed by CDPH Certified Lead Workers and Supervisors in compliance with Cal/OSHA's Construction Lead Standard, 8 CCR 1532.1 and CDPH regulation 17 CCR Sections 35001 through 36100. |
| X | Removal and disposal of PCB-containing ballasts, as designated [see Demolition Plans E2.2A thru E2.8A]. |
| X | Removal and recycling of mercury-containing lamps and/or mercury-containing thermostats [see Demolition Plans E2.2A thru E2.8A and MP2.2 thru MP2.8]. |
| X | For Controlled Renovation Projects: Use of controlled renovation procedures for drilling, coring and anchoring through asbestos-containing materials, particularly sheetrock walls and ceilings throughout, as required for miscellaneous repairs, in accordance with 8 CCR 1529. |
| X | For Controlled Renovation Projects: Use of dust controls during drilling, coring and anchoring through materials containing lead as required per 8 CCR 1532.1. |
| X | For Controlled Renovation Projects: Clean-up of building dust and contamination for clearance dust sampling. |
### II. Submittals:

#### Pre-job Submittals (as designated):

| X | BAAQMD Notification (10 working days in advance); |
| X | Cal/OSHA Asbestos Abatement Notification per 8 CCR 1529 (twenty four (24) hours in advance); |
| X | Cal/OSHA Lead Hazard Notification per 8 CCR 1532.1 (twenty four (24) hours in advance); |
| X | CDPH Notification Form CDPH 8551 (12/97) for Abatement of Lead Hazards |
| X | Copy of current Contractors’ State Licensing Board (CSLB) License; |
| X | Copy of Cal/OSHA Asbestos Registration Certificate; |
| X | Proof of all required permits or variances; |
| X | Abatement work schedule; |
| X | Abatement work plan(s); |
| X | Copies of workers' asbestos training certificates, including the Competent Person; |
| X | Copies of CDPH Certified Lead Worker's and Supervisor's training certificates, as applicable; |
| X | Copies of workers' lead awareness training certificates; |
| X | Copies of workers' annual medical exam and respirator approval; |
| X | Copy of EPA’s “Certified Renovator” training certificate per EPA’s Lead Safety for Renovation, Repair & Painting (EPA-740-R-09-002) effective October 22, 2009 |
| X | Tenant Notifications per EPA’s Lead Safety for Renovation, Repair & Painting (EPA-740-R-09-002) effective October 22, 2009 |
| X | Copies of workers' twelve (12) month respirator fit testing records; |
| X | Copies of workers' blood lead test within past ninety (90) days; |
| X | Material Safety Data Sheets (MSDS) for chemicals used; |
| X | Emergency phone and pager listing; |
| X | Independent third-party DOP testing of negative pressure units and vacuums; |
| X | Proposed location of locked dumpster; and |
| X | Rotameter calibrations within past six (6) months. |

#### Periodic Submittals (as designated):

| X | Personal air monitoring (daily); |
| X | Updated worker documentation (as needed); |
| X | Boundary access logs (daily); |
| X | Negative pressure records (daily); and |
| X | Copies of updated notification to regulatory agencies (as needed). |

#### Project Close-out Submittals (as designated within two (2) weeks of completion):

| X | Certificate of Completion; |
| X | Receipt and weight tickets from landfill operator or recycler (as applicable); |
| X | Copies of completed uniform waste manifests, including hazardous and non-hazardous waste; |
| X | Waste profiling data (TCLP, WET and SW846, as applicable); |
| X | Filter change logs for all filtration units, water filtration units (as applicable) and respirators; |
| X | Foreman’s daily job reports; |
| X | Employee and visitor entry/exit logs for all containments; |
| X | Manometer printouts for all applicable containments; and |
| X | Air sample results for all personnel, work areas and air filtration units. |
III. Schedule

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IV. Contacts:

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<tbody>
<tr>
<td><strong>Construction Manager</strong></td>
<td>Bijan Beigi – Consolidated CM</td>
<td>(510) 208-1720</td>
<td>(510) 208-1721</td>
<td>(510) 913-1104 or <a href="mailto:bbeigi@consolidatedcm.com">bbeigi@consolidatedcm.com</a></td>
</tr>
<tr>
<td><strong>SCA Environmental Inc.’s Project Manager</strong></td>
<td>Glenn R. Cass, PE, CIH, CAC #92-0092, CDPH #717</td>
<td>(510) 267-2723</td>
<td>(415) 962-0736</td>
<td>(510) 517-1119 or <a href="mailto:gcass@sca-enviro.com">gcass@sca-enviro.com</a></td>
</tr>
</tbody>
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Note: Contact the District’s Project Manager only in an emergency.

V. Security

Arrange site security with the District at the beginning of the job.

Provide temporary security at building penetrations created by the demolition and abatement.

VI. Special Conditions

Air Sampling:

1. **PCM Analysis:** Analysis of PCM samples shall follow the procedures outlined in NIOSH method 7400 and within these Contract Documents.

2. **TEM Analysis:** The U. S. Environmental Protection Agency passed regulations for schools under the Asbestos Hazard Emergency Response Act (AHERA), which are found in 40 CFR Part 763 ”Asbestos Containing Materials in Schools”. This regulation states that all abatement work shall be evaluated upon completion by collecting air samples using aggressive sampling techniques and that all such samples shall be analyzed using Transmission Electron Microscopy (TEM). The TEM protocol for large projects/zones calls for the collection of a minimum of five (5) inside samples, five (5) outside samples, and three (3) blank samples and each should be analyzed by TEM. The regulation strictly defines the criteria that must be met to determine that a building is acceptably clean after removal. TEM analysis turnaround times shall be 24 hours, unless otherwise indicated.

3. The sampling and analytical criteria in the AHERA regulation for schools shall be viewed as the preferred method for determining that any asbestos abatement project in any building has achieved a satisfactory level of cleanliness. The District shall clear all work areas using aggressive sampling and TEM analysis, unless otherwise noted. The District reserves the right to determine the quantity of clearance air samples and blanks to be collected for each subzone.

4. The District shall pay the Environmental Consultant's costs of the final round of visual inspections, aggressive air sampling, and PCM and/or TEM analyses that will meet the asbestos abatement specification. All rounds of visual inspections, aggressive air sampling, and PCM and/or TEM analyses that fail to meet the contract criteria shall be borne by the Contractor. For the purpose of this paragraph, visual inspection includes the area isolation inspection, pre-encapsulation inspection, and final area clean-up inspection.
5. During all asbestos-related work, perimeter sample results will be collected by the District and/or their Environmental Consultant (Industrial Hygienist). These samples will be analyzed by Phase Contrast Microscopy (PCM). Sample results that are in excess of the background level or one hundredth fibers per cubic centimeter (>0.01 f/cc) Project Action Level may be forwarded for analysis by Transmission Electron Microscopy (TEM) with a twelve (12) hour turnaround specified. Handling, shipping, and analysis charges (including the Environmental Consultant’s time and expenses) will be paid for by the Contractor. Any sample results in excess of seventy asbestos structures per square millimeter (70 str/mm²) of filter area (corrected for a twelve hundred to eighteen hundred (1,200 - 1,800) liter sample volume as appropriate) will require cleaning, inspection, and resampling of the affected area at the Contractor's expense.

6. During all lead hazard-related work, such as demolition, torching and welding activities, etc., as applicable, perimeter air sample and/or lead wipe sample results will be collected by the District's Environmental Consultant (Industrial Hygienist). These samples will be analyzed by flame atomic absorption. Wipe sample results which are in excess of the construction dust control standard of eight hundred micrograms per square foot (>800 µg/SF) for adjoining construction zones on two (2) consecutive samplings (or two (2) consecutive days) or forty 40 micrograms per square foot (>40 µg/SF) for adjoining occupied (floor) areas on any occasion will require isolation and clean-up of the affected areas. Air sampling results in excess of the Cal/OSHA "Project Action Level" of thirty micrograms per cubic meter (>30 µg/m³) will require isolation of the work area and amendment of work procedures and/or clean-up of the affected areas. Resampling of the affected areas and handling, shipping, and analysis charges (including the Environmental Consultant's time and expenses) for additional sampling required to show background levels below these construction lead standards shall be borne by the Contractor.

Submittals:
1. All pre-construction submittals shall be forwarded to the District’s Project Manager and the District’s designated Environmental Consultant prior to the start of abatement as designated in the Contract Documents and herein.

2. Failure by the Contractor to fulfill the submittal requirements as specified in the Contract Documents and herein shall be the basis for withholding final payment until such submittal requirements are satisfied.

Additional Liquidated Damages:
1. The Contractor shall pay for all Environmental Consultant costs for delays in completion of work beyond the authorized schedule established by the District. Such charges shall include Consultant's observations and inspections, daily air monitoring, equipment, transportation and analysis charges. Such costs are estimated at $1,000 per day, exclusive of any costs associated with final clearance air testing. See the Liquidated Damages Section in the General Conditions for further requirements.

Waste Manifests:
1. The Contractor shall coordinate the inspection and signing of all waste manifests with the District and its Environmental Consultant, while on-site. Failure to complete the manifests or callbacks after completion of the project will be backcharged to the Contractor.

VII. Summary of Sampling Results:

Sampling by SCA in December 2008 found the following ACM:
Flooring Materials

- 9-inch square beige vinyl composite floor tiles with white streaks and black mastics over concrete substrates typical of the 2nd Floor Health Center and the 9th Floor Hallway and Elevator Lobby [SCA Sample I.D. FLVCT-104-1 & 2 with >1% Chrysotile in the tiles and 5% Chrysotile in the black mastics].
- 12-inch square off-white vinyl composite floor tiles with heavy gray and beige streaks and black mastics over concrete sampled in the 9th Floor Studio Areas [SCA Sample I.D. FLVCT-108-1 with 5% Chrysotile in the black mastics].

Suspect materials that were not sampled but should be assumed to be asbestos-containing include the following:

- Fire doors at various Stairwells, Basement Mechanical and Electrical Rooms and Storage Rooms throughout [Sample I.D. DOOR-AAA, assumed ACM].

“Trace” asbestos-containing materials (>0.1% and <1% asbestos by weight) sampled by SCA include:

Wall Materials

- Sheetrock wallboard and joint compounds typical of the interior partitions throughout, sampled in Office T807, and within the Basement Women’s Toilet T-B106 [SCA Sample I.D. WLSH-209-1 & 2 with <1% CH composite].

Ceiling Materials

- Sheetrock ceiling board and/or skim plaster over gypsum button board, sampled in the 1st Floor Telephone Room T100A and most floors Men’s Toilets and considered typical of the ceiling substrates throughout [SCA Sample I.D. CLSH-301-1 thru 9 with <1% Chrysotile composite].

Non-asbestos materials sampled and documented by SCA include:

Flooring Materials

- 12-inch square off-white vinyl composite floor tiles with gray streaks and yellow mastics over concrete substrates, sampled in the 1st Floor Telephone Room T100A. [SCA Sample I.D. FLVCT-101-1].
- Typical yellowish-brown carpet mastics sampled in 2nd Floor Office T201A and various floor hallways and considered typical throughout [SCA Sample I.D. CPMAS-102-1 thru 8].
- 2-inch square beige ceramic floor tiles with black grouts over concrete substrates typical of the Toilets throughout [SCA Sample I.D. FLCER-103-1].
- 12-inch square off-white vinyl composite floor tiles with heavy blue streaks and yellow mastics over concrete, sampled at the 3rd Floor Elevator Lobby [SCA Sample I.D. FLVCT-105-1].
- 12-inch square off-white vinyl composite floor tiles with gray and black streaks and yellow mastics sampled at the 4th & ___ Floor Elevator Lobbies [SCA Sample I.D. FLVCT-106-1 & 2].
- 12-inch square reddish blue slate-like vinyl composite floor tiles with yellow mastics over concrete at 4th Floor Lounge T450 [SCA Sample I.D. FLVCT-107-1].
- Newer 24-inch square slate-patterned vinyl composite floor tiles in the elevator cabs [Sample I.D. FLVCT-NNN].
- 12-inch square beige streaked vinyl composite floor tiles with yellow and brown mastics over concrete substrates sampled at the 1st Floor Fire Command Center Room T-100B [SCA Sample I.D. FLVCT-109-1].
- Peeling and scuffed gray paints on concrete floor in the Basement Hallway [SCA Sample I.D. PAINT-110-1].
- Blackish gray anti-skid strips on the Basement Hallway floor [SCA Sample I.D. GRIP-111-1].

Wall Materials
- Gray paints on core area concrete walls, sampled in the 1st Floor Lobby with plaster skimcoat over concrete substrates [SCA Sample I.D. PAINT/CONC-201-1].
- 8-inch high black vinyl baseboards with beige mastics over concrete substrates sampled in the 1st Floor Lobby and typical throughout the 1st Floor [SCA Sample I.D. BBMAS-202-1].
- Sandy textured wall plaster typical of the outer Hallway plaster walls, sampled throughout the building [SCA Sample I.D. WLPL-203-1 thru 11].
- Whitish-grayish paints typical of the perimeter concrete walls, Hallway and Core Area walls and 6th Floor exposed concrete ceiling [SCA Sample I.D. PAINT/CONC-204-1 thru 9].
- 5-inch high various colored vinyl baseboards with brown mastics over plaster, sheetrock and concrete substrates throughout most floors [SCA Sample I.D. BBMAS-206-1 thru 9].
- 5-inch square white ceramic wall tiles over sheetrock or plaster substrates typical of the wet walls in the Toilets throughout [SCA Sample I.D. WLCER-207-1].
- Sheetrock wallboard and joint compounds typical through interior partitions at various floors [SCA Sample I.D. WLSH-205-1 thru 8].
- Newer Fiberglass reinforced wall panels at the Basement Men’s Toilet T-B108 [Sample I.D. FORMICA-NNN].
- Sheetrock wallboard and joint compounds with heavy knockdown texturing typical of 5th Floor Offices T550 thru T553 [SCA Sample I.D. WLSH-208-1].
- Screwed-on bulletin boards in the 1st Floor Hallway and throughout the floors [Sample I.D. BULLETIN-NNN].

Ceiling Materials
- Typical ceiling plaster over gypsum button board typical of the Basement Men’s and Women’s Toilets [SCA Sample I.D. CLPL-302-1 & 2].
- 24-inch square glued-on ceiling tiles in concrete waffle slab ceiling on the 1st Floor [Sample I.D. CLGL-NNN].

Miscellaneous Materials
- Cream-colored Formica countertops sampled at the Cashier windows at 2nd Floor Office 201A, and the Basement Custodial Storage counters [SCA Sample I.D. FORMICA-401-1 & 2].
- Gray Formica countertops at the Basement Women’s Toilet T-B106 [SCA Sample I.D. FORMICA-401-3].
- Black perimeter interior window caulking around window frames at all floors, sampled in Rooms T115, T513 and the 1st Floor Lobby and considered typical throughout the perimeter facades [SCA Sample I.D. CAULK-402-1 thru 3].
- Red firestop materials at the Basement Transformer Room T-B102 and 1st Floor Fire Command Center Room T100B [Sample I.D. FIRESTOP-NNN].
- Fiberglass insulation on exposed heating and domestic hot water system piping with arabol wrap at various fittings viewed in the Basement Pump and Mechanical Room and considered typical throughout [Sample I.D. TSI-NNN].
- Tan vinyl flexible connectors at various fan units at Basement Mechanical Room T-B104].

Lead-based paints tested on-site, requiring protection from disturbances causing airborne lead dusts during the abatement phase include:

- See the attached Lead Summary Table for sampling results.
Treat all similar paints and substrates in kind. Note that most building paints contain some lead content, and require demolition dust control procedures for compliance with Cal/OSHA's Construction Lead Standard under 8 CCR 1532.1.

Scrape and stabilize all loose and peeling paints on-site and characterize for possible disposal as hazardous waste. Intact painted elements may be disposed as non-hazardous waste complying with dust controls and personal protective procedures per Cal/OSHA regulation 8 CCR 1532.1 and CDPH regulation 17 CCR Sections 35001 through 36100.

VIII Standard Procedures

Asbestos Abatement:

<table>
<thead>
<tr>
<th>Abatement Material Group A-1</th>
<th>Vinyl Floor Tiles with Related Mastics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Method:</strong></td>
<td><img src="#" alt="X" /> Full Isolation or Mini-Containment <img src="#" alt="___" /> Glovebag <img src="#" alt="___" /> Glovebag-Cutout</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>Activity Class</th>
<th>Sample I.D.</th>
<th>% Asbestos</th>
<th>Est. Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl floor tiles with related mastics</td>
<td>2</td>
<td>See Matrix Table</td>
<td>See Matrix Table</td>
<td>See Matrix Table &amp; Building Plans, including VAT under carpeting in Basement Security Rm. B101 (see Matrix Table Abatement Note A-1, typical)</td>
</tr>
</tbody>
</table>

Asbestos Abatement Procedures for Material Group A-1 (Applicable Indicated):

<table>
<thead>
<tr>
<th>Decon System:</th>
<th><img src="#" alt="X" /> Shower if &gt;250 SF</th>
<th><img src="#" alt="___" /> Central</th>
<th><img src="#" alt="X" /> Hudson sprayer or bucket decon if &lt;250 SF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td><img src="#" alt="___" /> # of Polyethylene Layers</td>
<td><img src="#" alt="___" /> Drop Cloths</td>
<td><img src="#" alt="___" /> Scaffold</td>
</tr>
<tr>
<td>Walls:</td>
<td>1</td>
<td><img src="#" alt="X" /> 6-ft. high Splash Guards</td>
<td></td>
</tr>
<tr>
<td>Criticals:</td>
<td>2</td>
<td><img src="#" alt="___" /> # of Polyethylene Layers</td>
<td><img src="#" alt="___" /> Plywood Barriers</td>
</tr>
</tbody>
</table>

**Other Comments:** For Vinyl Floor Tiles & Mastic Abatement: Abate the vinyl floor tiles and mastics, as applicable, using full isolation or mini-containment abatement methods per Cal/OSHA 8 CCR 1529 Work Class II procedures, minimum, with negative pressurization of all zone(s). Demolish interior partitions and counters to access and abate concealed materials as noted on the Demolition Plans. Remove the mastics using an approved "low odor" mastic remover with greater than 140°F flash point. Dispose of tile waste as Category 1 non-friable waste. Characterize and dispose of rags and solvent residues as a separate hazardous waste stream.

For Disposal & Cleanup: Double gooseneck bag all asbestos floor tiles as dispose as Category 1 non-friable waste. Dispose of mastics, rags and associated waste as specified by the mastic remover manufacturer, potentially as hazardous waste. HEPA vacuum the surrounding area, prior to visual inspection by the Environmental Consultant.

If a mobile containment is used, clean-up and reseal the phone booth-type containment and airlock entry between uses.

See Procedure CR-3 below for further details on “minor” procedures for coring, anchoring, etc.
### Abatement Work Plan

#### Summary of Work

<table>
<thead>
<tr>
<th>Material Group</th>
<th>Description</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-2:</td>
<td>Roofing Materials – Not Applicable to this Project</td>
<td></td>
</tr>
<tr>
<td>A-3:</td>
<td>Sheetrock Impacts (without friable skimcoats)</td>
<td></td>
</tr>
</tbody>
</table>

#### Method:

- X Full Isolation or Mini-Containments
- ___ Glovebag
- ___ Glovebag-Cutout

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Activity Class</th>
<th>Sample I.D.</th>
<th>% Asbestos</th>
<th>Est. Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheetrock walls and ceilings [Note at all sheetrock ceiling assemblies are asbestos-containing throughout the site]</td>
<td>2</td>
<td>See Matrix Table</td>
<td>See Matrix Table</td>
<td>See Matrix Table &amp; Building Plans, inclusive of Room renovations, HVAC and lighting renovations, piping and duct installations throughout the majority of ceilings &amp; Hallway cable tray installations (see Matrix Table Abatement Notes A-3 &amp; A-4, typical)</td>
</tr>
<tr>
<td>Fire doors with 45 minute or greater rating throughout</td>
<td>2</td>
<td>See Matrix Table</td>
<td>See Matrix Table</td>
<td>See Matrix Table &amp; Building Plans (as indicated) (see Matrix Table Abatement Note A-2, typical)</td>
</tr>
</tbody>
</table>
Asbestos Abatement Procedures for Material Group A-3 (Applicable Indicated):

<table>
<thead>
<tr>
<th>Decon System:</th>
<th>Shower</th>
<th>Central</th>
<th>Hudson sprayer or bucket decon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walls:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Criticals:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Comments:** For "trace" Sheetrock Abatement: Remove materials using full isolation or mini-containment procedures, satisfying the requirements of Cal/OSHA 8 CCR 1529 Work Class II procedures, unless otherwise noted. Use wet methods for dust controls. Dispose of composite sheetrock and joint compound materials as "trace" composite asbestos waste. Dispose of wallboard with asbestos-containing texturing or skimcoats as friable asbestos waste as discussed under procedures A-6 below. HEPA vacuum the contained area prior to final clearances.

Trace asbestos abatement involving more than one hundred square feet (>100 SF) of wallboard must be completed by a registered Abatement Contractor per the California Business & Professions Code (8 CCR Sections 341.6-9). Note that demolition of the building may occur with the sheetrock left intact, provided the Demolition Contractor has the required asbestos registration. Workers must have two (2) hours minimum awareness training and personnel protection requirements and wet methods per 8 CCR 1529 still apply.

Removal of large wall or ceiling segments, particularly demolition of elements which may impact the sheetrock finishes (see Demolition Plans) shall be completed under full isolation or mini-mobile containment procedures by the Abatement Contractor. The Asbestos Contractor using glovebag and mobile mini-containment methods or full isolation methods, depending on the quantities impacted, shall complete corings greater than 2-inch diameter, which cannot be properly controlled using a wetted sponge.

Treat cutouts for ductwork, piping and conduit penetrations, etc in full height partitions, within the ceiling plenums similar to ceiling operations under Work Procedure A-3 herein.

Double bag and dispose of intact sheetrock and joint compounds as non-hazardous waste.

If a mobile containment is used, clean-up and reseal the phone booth-type containment and airlock entry between uses.

**For Fire Doors:** Remove fire doors with 45-minute or greater fire rating intact, burrito-wrap in two (2) layers of six (6) mil fire-retardant polyethylene sheeting, and dispose as friable asbestos waste.

See Procedures CR-2 below for further details on “minor” procedures for coring, anchoring, etc.

<table>
<thead>
<tr>
<th>Abatement Material Group A-4:</th>
<th>Thermal System Insulation (TSI) – Not Applicable to this Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abatement Material Group A-5</td>
<td>Vinyl Floor Sheeting (Linoleum) – Not Applicable to this Project</td>
</tr>
<tr>
<td>Abatement Material Group A-6:</td>
<td>Plasters, Wall Texturing, Skimcoats, Acoustical Plasters or Structural Fireproofing – Not Applicable to this Project</td>
</tr>
</tbody>
</table>
Abatement Work Plan – Summary of Work

Abatement Material Group A-7:

Exterior Stucco & Exterior Materials (Other than Roofing) – Not Applicable to this Project

Controlled Renovation Procedures:

Controlled Renovation Activity CR-2:

Controlled Renovations through Non-Friable Wall or Ceiling Materials, e.g., Sheetrock Wallboard or Smooth, Non-Acoustical Plasters

<table>
<thead>
<tr>
<th>Method:</th>
<th>X Cordon Area</th>
<th>___ Glovebag</th>
<th>___ Glovebag-Cutout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Activity Class</td>
<td>Sample LD</td>
<td>% Asbestos</td>
</tr>
<tr>
<td>sheetrock wall and ceiling board</td>
<td>2</td>
<td>See Matrix Table</td>
<td>See Matrix Table</td>
</tr>
</tbody>
</table>

Controlled Renovation Procedures for CR-2 (Applicable Indicated):

Decon System: | Shower | Central | Hudson sprayer or bucket decon |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td># Layers Poly</td>
<td>Drop Cloths</td>
<td>Scaffold</td>
</tr>
<tr>
<td>Walls:</td>
<td># of Polyethylene Layers</td>
<td>Splash Guards</td>
<td></td>
</tr>
<tr>
<td>Criticals:</td>
<td># of Polyethylene Layers</td>
<td>Plywood Barriers</td>
<td></td>
</tr>
</tbody>
</table>

Other Comments: Shoot or drill anchors through a wetted sponge, where feasible, following installation of polyethylene drop cloths on the floor or other surfaces. Cordon off the room or area and cut holes for receptacle or other devices using drop cloths on the ground and wet methods. Remove the sheetrock avoiding the joint compounds, where feasible. Continually wet the controlled renovation area during the process and wet wipe and HEPA vacuum the area immediately following completion of the controlled renovation procedures. Dispose of the sheetrock and joint compounds as "trace" (<1%) composite waste.

Minor procedures impacting asbestos-containing sheetrock and non-acoustical plaster finishes, such as installation of raceway and wiremold anchors, etc., may be completed using drop cloths and wet sponges for drilling or shooting anchors. All debris shall be immediately wet wiped or HEPA vacuumed to avoid dispersion of asbestos fibers.

Controlled Renovation Activity CR-3:

Controlled Renovations through Vinyl Flooring with Related Mastics

<table>
<thead>
<tr>
<th>Method:</th>
<th>X Cordon Area</th>
<th>Glovebag</th>
<th>Glovebag-Cutout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Activity Class</td>
<td>Sample LD</td>
<td>% Asbestos</td>
</tr>
<tr>
<td>vinyl floor tiles and mastics</td>
<td>2</td>
<td>See Matrix Table</td>
<td>See Matrix Table</td>
</tr>
</tbody>
</table>
Controlled Renovation Procedures for CR-3 (Applicable Indicated):

<table>
<thead>
<tr>
<th>Decon System:</th>
<th>Shower</th>
<th>Central</th>
<th>Hudson sprayer or bucket decon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor:</td>
<td># Layers Poly</td>
<td>X Drop Cloths</td>
<td>Scaffold</td>
</tr>
<tr>
<td>Walls:</td>
<td># of Polyethylene Layers</td>
<td>X Splash Guards</td>
<td></td>
</tr>
<tr>
<td>Criticals:</td>
<td># of Polyethylene Layers</td>
<td>Plywood Barriers</td>
<td></td>
</tr>
</tbody>
</table>

Other Comments: For Vinyl Asbestos Floor Tiles (VAT): Cordon off the room or area and remove the impacted floor tiles before drilling through the substrate. Where feasible, use water to dislodge the tile. Where tile removal is not feasible or fracturing of the tiles will occur, saturate the tile with shave cream and core through the tiles. Frequently wipe up all chips and debris and dispose as Category 1 non-friable waste. Wet wipe with a clean sponge and HEPA vacuum the area upon completion of coring. Do not let cores with intact ACM debris to fall into the ceiling plenum or Crawl Space below.

For Flooring Mastics: Cordon off the room or area and remove the mastic using a mastic remover with a flash point greater than 140 deg. F. Dispose of the mastic and rags as Category 1 non-friable waste. Wet wipe and HEPA vacuum the area following completion of the controlled renovation procedures.

Clean-up debris immediately.

Lead Hazards Construction Work:

<table>
<thead>
<tr>
<th>Zone L-1:</th>
<th>Interior &amp; Exterior Paint Demolition and/or Stabilization and Dust Clean-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample I.D.</td>
<td>Color</td>
</tr>
<tr>
<td>HUD-defined Lead-Based Paints or Glazing</td>
<td>Varies</td>
</tr>
<tr>
<td>Majority of painted substrates</td>
<td>Varies</td>
</tr>
</tbody>
</table>
Lead Hazard Procedures for Zone #L-1 (Applicable Indicated):

<table>
<thead>
<tr>
<th>Decon System:</th>
<th>Shower</th>
<th>Central</th>
<th>Hudson sprayer or bucket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Methods:</td>
<td>Full Containment</td>
<td>Manual Methods w/ Drop Cloths</td>
<td>Loose &amp; Peeling Paints Only</td>
</tr>
</tbody>
</table>

Other Comments: Post notifications as required per 8 CCR 1532.1, and the EPA’s RR&P regulations and train uncertified workers as required under the EPA’s RR&P regulations, effective October 22, 2009.

For Stabilization of Loose & Peeling Paints: Manually scrape and stabilize loose and peeling paints prior to demolition of painted substrates using drop cloths, wet methods, and HEPA vacuums for dust control in compliance with Cal/OSHA regulation 8 CCR 1532.1. Avoid dry sweeping.

For Non-ACM Ceramic Tile Demolition defined as HUD LBP’s: Manually demolish ceramic wall and/or floor tiles using drop cloths, wet methods, and HEPA vacuums for dust control in compliance with Cal/OSHA regulation 8 CCR 1532.1. Avoid dry sweeping. Clean-up daily all work areas before leaving the site. Characterize and dispose of debris as possible hazardous waste. For tiles mounted to concrete, plaster or masonry substrates, isolate the room and establish negative pressurization of the work areas using HEPA-filtered negative pressure units and demolish the tiles using an pneumatic or electric chipper or jackhammer. Continuously mist the work area during chipping activities. Dispose of large intact debris as non-hazardous waste and HEPA vacuum the fine debris and dust residues for characterization and possible disposal as hazardous waste. Demolition of HUD-defined LBP cermaic glazing shall be completed by California CDPH Certified Lead Workers and Supervisors.

For Mechanical Sanding: Work areas requiring mechanical sanding or stripping of painted surfaces with any lead content shall be fully contained with polyethylene dust barriers, establishing negative pressure of the zone, and using HEPA-filtered tools and other dust control procedures as outlined under 8 CCR 1532.1.

For Demolition of Painted Substrates & non-HUD defined LBP Ceramic Tile Glazing: Demolition of painted concrete or plaster substrates shall be completed under full isolation containments with negative air. Loose paints, HEPA vacuum canister wastes, and fine dust shall be characterized and disposed as potential hazardous waste. Respiratory protection shall be upgraded per 8 CCR 1532.1 requirements for mechanical sanding or mechanical equipment without HEPA vacuum or water misting attachments.

For Disposal & Cleanup: Demolish and dispose of intact painted substrates as non-hazardous waste. Characterize and dispose of loose and peeling paint debris, chemical strippers, rags, etc. as potential hazardous waste. Clean-up drop cloths and HEPA vacuum loose and peeling chips and debris daily for all work areas before leaving the site.

Complete abatement work exceeding the permissible exposure limit using CDPH Certified Lead Workers and Supervisors, including but not necessarily limited to demolition of lead glazed ceramic tiles, extensive manual or mechanical scraping or sanding of loose and peeling paints, demolition of concrete-encased primed steel, and spot abatement of primed structural steel prior to torching or cutting, as applicable.
IX. Monitoring and Clearance

Asbestos Clearance Requirements (includes budgeted # of samples):

<table>
<thead>
<tr>
<th>Description</th>
<th>Method</th>
<th>PCM/zone</th>
<th>TEM/room</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAT &amp; Mastic Abatement</td>
<td>Visual Only</td>
<td></td>
<td>1-2 TEM/room (typ.)</td>
</tr>
<tr>
<td>Sheetrock Removal</td>
<td>Visual Only</td>
<td></td>
<td>5 TEM/floor (typ.)</td>
</tr>
<tr>
<td>Door Replacement</td>
<td>X Visual Only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controlled Renovation Method CR-2 – Non Friable Wall or Ceiling Materials</td>
<td>X Visual Only</td>
<td></td>
<td></td>
</tr>
<tr>
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X. Diagrams

See the Architectural, Mechanical, Plumbing and Electrical Plans for areas of impact.

Consultant's Signature: Glenn R. Cass, PE, CIH, CAC #92-0092, CDPH #717

Date: 9/3/09

Contractor's Signature

Date:
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## REPRESENTATIVE SAMPLING OF LEAD-BASED PAINTS

LANEY COLLEGE ADMINISTRATIVE TOWER, OAKLAND, CA
SAMPED BY SCA ENVIRONMENTAL, INC. ON DECEMBER 12, 2008
SCA PROJECT NO.: K-9219

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### REPRESENTATIVE SAMPLING OF LEAD-BASED PAINTS

**LANEY COLLEGE ADMINISTRATIVE TOWER, OAKLAND, CA**

**SAMPLED BY SCA ENVIRONMENTAL, INC. ON DECEMBER 12, 2008**

**SCA PROJECT NO.: K-9219**

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## REPRESENTATIVE SAMPLING OF LEAD-BASED PAINTS
Laney College Administrative Tower, Oakland, CA
Sampled by SCA Environmental, Inc. on December 12, 2008
SCA Project No.: K-9219

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## K-9219.AS XRF Results

**REPRESENTATIVE SAMPLING OF LEAD-BASED PAINTS**
**LANEY COLLEGE ADMINISTRATIVE TOWER, OAKLAND, CA**
**SAMPLED BY SCA ENVIRONMENTAL, INC. ON DECEMBER 12, 2008**
**SCA PROJECT NO.: K-9219**

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**REPRESENTATIVE SAMPLING OF LEAD-BASED PAINTS**  
LANEY COLLEGE ADMINISTRATIVE TOWER, OAKLAND, CA  
SAMPLED BY SCA ENVIRONMENTAL, INC. ON DECEMBER 12, 2008  
SCA PROJECT NO.: K-9219

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<th>Surface Color</th>
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<th>Substrate Material</th>
<th>L-Shell Value mg/cm$^2$</th>
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<td>No</td>
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* HUD definition for Lead-Based Paints is $>1.0$ mg/cm$^2$ or $>0.5\%$ lead by weight.  
Note: Paints and glazing with a detectable lead content are subject to the Contractor's compliance with Cal/OSHA regulation 8 CCR 1532.1 during demolition, scraping of loose and peeling paints, spot abatement prior to torching or cutting, etc.  
Figures in bold represent lead-based paints (LBP) per HUD definition.  
Table indicates representative samples only; treat all similarly painted surfaces in kind.
HAZARDOUS MATERIALS FINISH SCHEDULE
(MATRIX TABLE) ABBREVIATIONS

Material I.D. Format: XXXX-YYY-Z
where

XXX = Material Abbreviation (see below)
YYY = Material Number
Z = Sample Subnumber for Serial Analyses

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<td>NNN</td>
<td>Assumed or Documented non-ACM</td>
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<td>CLLI</td>
<td>Laid-in acoustical ceiling tile</td>
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<td>Nailed-on or Screwed-on Acoustical Ceiling Tile</td>
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### Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**  
Surveyed by SCA Environmental, Inc. on 12/12/08  
SCA Project No.: K-9219.AS; Revised 9/3/09

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## Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**

Surveyed by SCA Environmental, Inc. on 12/12/08

SCA Project No.: K-9219.AS; Revised 9/3/09

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Page 3 of 22
## Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**  
Surveyed by SCA Environmental, Inc. on 12/12/08  
SCA Project No.: K-9219.AS; Revised 9/3/09

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**Notes:**  
- ND: Not Determined  
- ACM: Asbestos Containing Materials  
- CR-2: Controlled Removal - 2% or less  
- DOOR-AAA: Door Assembly-3 EA

**Page 4 of 22**
### Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**

Surveyed by SCA Environmental, Inc. on 12/12/08

SCA Project No.: K-9219.AS; Revised 9/3/09

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Page 8 of 22
## Summary of Hazardous Materials (Matrix Table)

Laney College Administrative Tower

Surveyed by SCA Environmental, Inc. on 12/12/08

SCA Project No.: K-9219.AS; Revised 9/3/09

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### Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**

Surveyed by SCA Environmental, Inc. on 12/12/08

SCA Project No.: K-9219.AS; Revised 9/3/09

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## Summary of Hazardous Materials (Matrix Table)

### Laney College Administrative Tower
Surveyed by SCA Environmental, Inc. on 12/12/08

SCA Project No.: K-9219.AS; Revised 9/3/09

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### Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**

Surveyed by SCA Environmental, Inc. on 12/12/08

SCA Project No.: K-9219.AS; Revised 9/3/09

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## Summary of Hazardous Materials (Matrix Table)

**Laney College Administrative Tower**  
Surveyed by SCA Environmental, Inc. on 12/12/08  
SCA Project No.: K-9219.AS; Revised 9/3/09

<table>
<thead>
<tr>
<th>Floor</th>
<th>Room</th>
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<th>Wall Materials</th>
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<th>% Asbestos</th>
<th>Ceiling Materials</th>
<th>Qty</th>
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<th>Misc.</th>
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</tbody>
</table>

### Notes:
- A-1 Abate vinyl floor tiles and mastics throughout per 8 CCR 1529 Work Class 2 procedures. See Demolition Plans.
- A-2 Burrito wrap and dispose of doors with >45 minute fire rating as friable asbestos waste. See Demolition Plans.
- A-3 Abate trace asbestos sheetrock ceiling as required for installation of cable trays, ducts, piping and conduit above ceiling. See Plans.
- A-4 Abate sheetrock and joint compounds per 8 CCR 1529 Work Class 2 procedures. See Demolition Plans for extent.
- A-5 Not used.
- A-6 Not used.
- A-7 Not used.
- A-8 Not used.
- A-9 Not used.
- A-10 No abatement required; do not disturb.
- L-1 Remove ceramic tiles within full isolation enclosure utilizing personal protection and dust controls per 8 CCR 1532.1. See Toilet Demolition Plans.
- CR-2 Utilize Abatement Work Plan controlled renovation procedures CR-2 for minor impacts to ACM wall & ceiling board & fire doors during installation of lighting, conduits, cables, etc.
- NIC Not in Contract

**ND** = None Detected  
**CH** = Chrysotile  
**AM** = Amosite  
**NQ** = Not Quantified

Note that asbestos-containing materials are noted within the shaded boxes.
SECTION 01110

HAZARDOUS MATERIALS PROCEDURES

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SECTION 01110

HAZARDOUS MATERIALS PROCEDURES

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes general requirements and procedures for hazardous materials related work activities, as applicable, to the Work and the existing conditions at the project site.

1. Work includes Hazardous Materials Precautions and Handling Procedures for non-abatement trades, as applicable.

2. Work includes controlled renovation procedures and hazardous materials controls, as applicable, including:
   a. Drilling and attachment and minor disturbances to friable asbestos-containing materials (ACM), including thermal system insulation (TSI) and surfacing materials such as acoustical plasters, fireproofing and texcoat, as applicable.
   b. Drilling and attachments and minor disturbances to non-friable or non-surfacing asbestos-containing materials such as wall and ceiling non-acoustical plasters, sheetrock, transite board, vinyl floor tiles, thin coat paints, and floor tile mastics, as applicable.
   c. Daily clean up of asbestos and lead-based paint debris from site demolition, coring, anchoring or other minor disturbances.
   d. Final clean up of the site for lead wipe clearance sampling, airborne asbestos sampling or visual inspection, as applicable.

B. Related Documents:


C. Related Sections:

2. Section 01300 - Submittals.

1.2 DEFINITIONS

A. Abatement: Primary work involving the removal, containment, control or treatment of hazardous materials.

B. Asbestos: A generic name given to a number of naturally occurring hydrated mineral silicates that possess a unique crystalline structure, are incombustible in air, and are separate into fibers. Asbestos includes any material that contains greater than one-tenth of one percent (>0.1%) by weight including the asbestiform varieties of chrysotile (serpentine), crocidolite (riebecklite), amosite (cummingtonite-grunerite), anthophyllite, tremolite, and actinolite. For the purposes of determining respiratory protection and worker protection both the asbestiform and non-asbestiform varieties of the above materials and any of these materials that have been chemically treated or altered shall be considered asbestos.

C. Asbestos-Containing Material (ACM): Any material which contains more than one percent (>1%) asbestos by weight for the purposes of abatement, waste disposal and fiber controls specified under this Contract.
D. Asbestos Containing Construction Material (ACCM): Any material which contains more than one tenth of one percent (>0.1%) asbestos by weight requiring personal protection, dust controls, Contractor registration, and worker training in compliance with Cal/OSHA regulation 8 CCR 1529. For waste disposal purposes, ACCM greater than one-tenth on one percent (>0.1%) by weight and less than one percent (<1%) by weight is classified as non-hazardous waste, although it is a regulated material under Cal/OSHA.

E. Certified Renovator: Trained personnel having successfully completed an 8-hour accredited renovators course, or successfully completed a 4-hr accredited refresher training course if previously having completed an EPA/HUD model renovations accredited abatement worker or supervisor’s course, and successfully applying for recertification every 5 years, responsible for (1) performing or directing training of non-certified workers regarding lead hazard and proper work procedures; (2) overseeing thorough cleanup of the site; (3) posting of warning signs; (4) restricting occupant access to regulated areas; (5) overseeing containment of work to prevent lead dust and debris from spreading; and (6) being available at the work area during key renovation stages and otherwise available on-site or by phone throughout the lead hazards work as specified in the EPA’s New Renovation, Repair & Painting Rules, effective October 22, 2009.

F. Hazardous Materials Control: Incidental work procedures for control of releases of project-related hazardous materials, including containment, enclosure, wetting, controlled renovations and demolition procedures, and removal and disposal.

G. Hazardous Waste:

1. Waste material, including asbestos, loose and peeling lead-based paints, and any other material which requires management, handling transport, treatment, storage or disposal according to the requirements of the Federal Resource, Conservation and Recovery Act (RCRA) and associated regulation 42 U.S.C. 6901 et seq. and 40 CFR Part 260 et seq., or the California Hazardous Waste Control Law and associated regulations (Health and Safety Code 25000 et seq. and 22 CCR 66260 et seq.).

2. References to hazardous material or contaminated material incorporate definitions of hazardous pollutants, hazardous contaminants, hazardous material, hazardous substance, hazardous waste, toxic pollutants and toxic substance applicable in accordance with Federal, State, regional and local statutes, laws, regulations and policies.

H. Lead: Metallic lead, all inorganic lead compounds and organic lead soaps, and excluding all other organic lead compounds.

I. Lead-Based Paints: Paints or coated surfaces that contain an amount of lead equal to, or in excess of, one milligram per square centimeter or more than half of one percent (0.5%) lead by weight.

J. Lead-Containing: Any material, coating, substrate or product that contains metallic lead, all inorganic lead compounds and organic lead soaps, and excluding all other organic lead compounds.

K. Lead-Contaminated Dust: Dusts that contain an amount of lead equal to, or in excess of, one hundred micrograms per square foot for floor surfaces and five hundred micrograms per square foot for horizontal window surfaces.

L. Lead-Contaminated Dust: Dusts that contain an amount of lead equal to, or in excess of, forty micrograms per square foot (>40 µg/SF) for floor surfaces and four hundred micrograms per square foot (400 µg/SF) for horizontal window surfaces.

M. Lead-Contaminated Soil: Bare soil that contains lead equal to, or in excess of, four hundred parts per million (≥400 ppm) in children’s play areas and one thousand parts per million (≥1,000 ppm) in all other areas.

N. Lead-Related Construction Work: Means any construction, alteration, painting, demolition, salvage, renovation, repair or maintenance of any residential or public building, including preparation and clean-up, that, by using or disturbing lead-containing material or soil, may result in significant exposure of adults or children to lead.

O. Presumed Lead-Based Paint: Means paint or surface coating affixed to a component in or on a structure, excluding paint or surface coating affixed to a component in or on a residential dwelling constructed on or after January 1, 1978.

P. Renovate Right: EPA approved pamphlet to be distributed to owners and occupants providing basic facts about lead and your health, how to choose a Contractor, what tenants, parents or guardians of children shall consider, how to

Hazardous Materials Procedures
01110 - 2
prepare for renovations and repairs, what to look for during and after the job is completed and where to get information on lead. Requires verification of distribution as outline in the EPA’s RR&P regulations.

1.3 SUBMITTALS

A. Submit the following in accordance with Section 01300 - Submittals.

1. Site-Specific Hazardous Materials Management Plan (HMMP): Submit Contractor’s HMMP for the District’s approval within ten (10) days after the Notice to Proceed, including the following items.

2. Overall scope and schedule of all hazardous materials management including but not limited to:

   a. Descriptions of all hazardous materials work to be performed or managed, and intended control procedures.

   b. Schedule of all hazardous materials work.

   c. Description of personal protective equipment and methods as well as intended compliance monitoring.

3. Name, phone number, pager number of Contractor’s designated Hazardous Materials Supervisor as required in this section’s “Quality Control.”

4. Name, address and phone number of the Contractor’s landfill.

B. Submit Worker Documentation in accordance with the requirements outlined in the Contractor’s HMMP, including but not limited to:

1. Certification of the worker’s awareness or hazards training by a Certified trainer or as stated on the Contractor’s letterhead by the Contractor’s Health & Safety Officer or Superintendent.

2. Medical examination and approval for use of respiratory protection, as applicable, including current respirator fit test records.

1.4 PROJECT CONDITIONS

A. Contractor shall pay all costs associated with the compliance with applicable hazardous materials regulations or requirements incurred by the Contractor or its subcontractors for this Project.

B. Take precautions necessary to protect the health and safety of construction workers, site visitors, District personnel, outside consultants, public and others from exposure to hazardous materials.

C. Take precautions necessary to insure all surrounding properties or adjacent occupied areas are protected from any contamination from all hazardous materials from this Project Site.

D. Review the information in the environmental and hazardous material investigation reports and make such information available to appropriate subcontractors and building occupants.

E. Obtain and pay for all sampling and profiling analyses required for waste disposal. California DHS-accredited laboratories shall perform analyses.

F. Minimize generation and migration of hazardous and contaminated materials, waste, dust, fumes and debris.

G. Prevent contamination or further contamination of any material or area by hazardous or contaminated material, waste, dust, fumes or debris.

H. Avoid mixing or concentrating removed, or demolished materials so as to increase the cost of disposing of such materials required to be disposed as hazardous or contaminated wastes.
I. Contractor shall retain, and the District will not indemnify against, any liability of Contractor resulting from the activities or duties which are the responsibility of Contractor under the terms of the Contract, including but not limited to present or future liability arising from the arrangement of transportation or disposal of any hazardous or contaminated material, whether on or off-site.

J. Pursuant to 29 CFR 1926.1101, the Contractor shall be deemed to exercise general supervisory authority over the work covered by the standard, even though the General Contractor is not qualified to serve as the asbestos "Competent Person," as defined by the standard. As supervisor of the entire Project, the General Contractor shall ascertain whether any subcontractor is in compliance with the standard and shall require such contractor to come into compliance with the standard when necessary.

K. Contractors shall schedule and coordinate abatement activities to time limitations indicated in the Contract Documents, allowing work shifts for asbestos, lead-based paint, PCB ballast, and other abatement as indicated in the Abatement Work Plan.

L. Time limitations for hazardous materials removal work shall be in accordance with Section 00100 -- Instructions to Bidders and submittals approved by the District.

1.5 QUALIFICATIONS

A. Hazardous Materials Supervisor: Assign a qualified person directly responsible under the Contractor’s Superintendent having the necessary training to be knowledgeable in the identification, control, and management of the hazardous materials on-site. The Hazardous Materials Supervisor is responsible for the following:

1. Enforcing safe work and hygiene practices in compliance with the Site-Specific Hazardous Materials Management Plan (HMMP).

2. Advising subcontractors of potential hazards and minimum general requirements of the HMMP.

3. Coordinating subcontractor’s work regarding hazardous material procedures and controls.

4. Establishing and maintaining restricted work areas.

5. Requiring proper use of personal protective equipment.

6. Communicating approved modified safety requirements to site personnel.

7. Notification and coordinating signing of waste manifests with the District.

B. Hazardous Materials Handlers: Only qualified persons shall engage in hazardous material-related work. Contractor and subcontractors, who come into contact with, are exposed to, disturb, operate equipment or otherwise handle hazardous or contaminated material, or debris shall have appropriate hazard communication and required training, personal and medical monitoring, and shall be certified to wear appropriate personal protective equipment as required by the applicable laws and regulations. Special qualifications which may be required depending on the Contractor’s means and methods include, but are not limited to, the following:

1. Asbestos-Related Work Involving Asbestos-Containing Materials exceeding 100 square feet:

   a. Valid asbestos handling license issued by the California State Contractors Licensing Board and a valid current Certificate of Registration for Asbestos-Related Work as issued by the California Department of Industrial Relations - Division of Occupational Safety and Health (Cal/OSHA).

   b. Work shall be completed under the on-site supervision of a Competent Person as defined by OSHA Regulation 29 CFR Part 1926.1101 (8 CCR 1529 in California).

   c. All abatement workers shall have AHERA training with annual 8-hour refresher training, current medical exams for the use of respiratory protection, and current fit tests of appropriate respirators.
2. Lead-Hazard Work: All affected workers shall have lead awareness training, current medical examinations and approval for the use of respiratory protection, and current fit testing of respirators complying with Cal/OSHA regulation 8 CCR 1532.1 when affecting lead paints and lead construction hazards including, but not limited to:
   a. Demolishing or salvaging structural items where lead or materials containing lead are present.
   b. Removing or encapsulating materials containing lead.
   c. Constructing, altering, repairing or renovating structures, substrates, or portions thereof, that contain lead or materials containing lead.
   d. Installing of products containing lead.
   e. Cleaning-up of lead contamination.
   f. Transporting, disposing, storing, or containing lead or lead-containing materials on the site or other locations where construction and renovation activities are performed.

C. Lead Abatement Work: Only qualified persons with California Department of Health Services’ (DHS)-approved Lead Workers training, annual medical examinations and approval for the use of respiratory protection, and current fit testing of respirators under the direct supervision of a DHS approved Lead Abatement Supervisor shall engage in work defined under Cal/OSHA regulation 8 CCR 1532.1 affecting lead-based paints and lead construction hazards, including but not limited to:
   1. Working in an environment where lead exposures exceed thirty micrograms per cubic meter (>30 µg/m³).
   2. Abating lead-based paints, including but not limited to abatement of loose and peeling lead-based paints, demolition and disposal of concrete-encased primed structural steel and/or stripping of lead coatings from structural steel prior to torching or welding.
   3. As defined under Title 17, California Code of Regulations (CCR), Division 1, Chapter 8 “Accreditation, Certification and Work Practices in Lead-Related Construction,” Article 1, Sections 35001 et al, and Article 16, Section 36000 and 36100.

D. Biohazard Work: Work areas contaminated with fecal matter (such as pigeon waste) and human excretions, along with needles and syringes and other materials potentially contaminated with infectious bloodborne pathogens or other biohazards shall comply with the health and safety requirements as approved in a Site-Specific Hazardous Materials Management Plan, approved and signed by the Contractor’s Certified Industrial Hygienist.

E. Hazardous Materials Haulers:
   1. Possess during the hauling of hazardous material, applicable federal, state, and local vehicle insurance requirements, valid driver’s license, vehicle registration and licenses, and a current Class 1 Certification of Compliance from the California Highway Patrol affixed to each vehicle or container.
   2. Possess a Hazardous Substance Removal Certification granted by the State of California Department of Toxic Substances Control (510-540-3802) and other required certifications and insurance.
   3. Contractor shall be responsible for informing drivers of hauling vehicles about:
      a. The nature of the material hauled.
      b. Any recommended or required routes to and from the site.
      c. Applicable city street use regulations and requirements, and State of California Department of Transportation (Caltrans) codes, regulations and requirements.
      d. The District's requirements for proper handling and transportation of hazardous waste.
e. The legal maximum loads for each vehicle.

1.6 REGULATORY REQUIREMENTS

A. Hazardous and contaminated materials and hazardous waste shall be handled according to applicable laws and regulations in effect at the time of disturbance, transport or disposal of said hazardous materials or waste and requirements of the Contract Documents. In the event of conflict, the more stringent requirement shall apply.

B. The District is the generator, as defined in 22 CCR Section 66260.10 and 40 CFR Part 261, of any hazardous waste, and will be responsible for that hazardous waste to the extent required by law.

C. Contractor is alerted to and shall familiarize itself to the following laws and regulations regarding the generation, management, characterization and disposal of hazardous waste:


2. California Health and Safety Code, Division 20 and regulations, and 22 CCR Section 66000 et seq.
   a. For asbestos hazards: Comply with the applicable requirements of the Cal/OSHA Construction Asbestos Standard, 8 CCR Section 1529, and BAAQMD Regulation 11, Rule 2.
   b. For lead hazards and abatement: Comply with the applicable requirements of the Cal/OSHA Lead in Construction Standard, 8 CCR Section 1532.1; Cal/EPA Regulation 22 CCR Section 66000, et seq.; California Department of Health Services (DHS) Regulation 17 CCR 35001, et seq.
   c. For Renovations, Maintenance or Repairs in pre-1978 Public Housing or Commercial and Public Buildings with regular child occupancy (under 6 years age) equal to or exceeding 6 sq. ft. indoors and equal to or exceeding 20 sq. ft. outdoors: Comply with the applicable requirements of the EPA’s New Renovation, Repair & Painting Rules (RR&P) effective October 22, 2009.

1.7 HAZARDOUS MATERIALS USED TO PERFORM THE WORK

A. General: Minimize the use of hazardous materials to perform the work. Where materials that contain hazardous substances or mixtures are used to perform the work, material usage shall be in strict adherence to Cal/OSHA’s safety requirements and the manufacturer’s warnings and application instructions listed on the Material Safety Data Sheet provided by the product manufacturer and on the product container label.

1. Contractor will be responsible for coordinating the exchange of MSDS or other hazard communication information between subcontractors at the site.

2. Contractor will notify the District when a specific product or equipment, or their intended usage, may be unsafe prior to ordering the product or equipment or prior to the product or equipment being incorporated in the Work.

B. Prohibited Material: The following materials and chemicals are specifically prohibited from use on this project unless otherwise accepted in writing by the District.

1. Material with a stated ACGIH threshold limit value of less than twenty five parts per million (<25 ppm).

2. Ethylene glycol monomethyl ether.

3. Dipropylene glycol methyl ether.

4. Ethylene glycol.

5. Formaldehyde.

7. Isocyanates.
8. Chemicals with a flash point of less than 140 degrees Fahrenheit.

PART 2 - PRODUCTS

2.1 HAZARDOUS MATERIAL CONTROLS AND EQUIPMENT

A. Protective Devices: Temporary wash stations or showers, disposable clothing, respirators, gloves, hard hats, and other required items. Respirators shall protect against appropriate dusts, fumes and mists as approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) under provisions of 30 CFR Part 11.

B. Waste Receptacles: Conform to federal and State regulations, with 6-mil minimum thickness waste bags.

C. Polyethylene Sheeting and Dust Barriers:
   1. Polyethylene sheeting shall be flame-retardant and approved and listed by the State Fire Marshal in accordance with Section 13121 and/or 13144.1 of the California Health and Safety Code.
      a. Thickness and Size: six (6) mil thick minimum, unless otherwise specified, sized to minimize the frequency of joints.
      b. Flammability: Comply with NFPA Standard 701 with a flame spread rating of no greater than five (5) and a smoke development rating of no more than seventy (70) when tested in accordance with ASTM procedures.

D. HEPA Vacuums and Negative Pressure Units (NPUs) used for clean up of materials and detail cleaning shall be HEPA-filtered.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Notify the Contractor’s Hazardous Material Supervisor of suspect conditions for testing by the District.

B. Promptly notify the District of differing conditions.

C. Please note that the Contract Documents may restrict access to some Crawl Spaces and plenums were known asbestos-containing thermal system insulation or damaged, friable surfacing materials exist. Access to these restricted areas will require the use of respiratory protection, full coveralls and decontamination procedures if accessed by non-abatement trades unless a negative exposure assessment is submitted to show that lower standards of protection are acceptable.

3.2 ASBESTOS HAZARD CONTROL PROCEDURES

A. Prohibited Activities Not Specified in this Section:
   1. Asbestos-containing materials shall not be disturbed by cutting, sawing, grinding, pulverizing, crumbling, breaking, or otherwise rendered friable or airborne unless these activities are conducted under the requirements of all applicable regulations and guidelines or controlled renovation procedures as outlined in the Contract Documents.

   2. A qualified Asbestos Abatement Contractor per Cal/OSHA regulation 8 CCR 1529 shall complete Work exceeding one hundred square feet (>100 SF) or one hundred linear feet (>100 LF) of asbestos-containing materials. All work affecting friable asbestos-containing materials shall be completed in compliance with Cal/OSHA Work Class I or III procedures, as applicable. Class III work may be completed by workers with EPA Asbestos Operations and Maintenance training and annual refresher training, minimum. Refer to Section 02090 - Hazardous Materials Abatement and Control.
B. Controlled Renovation Procedures for Installation of Anchors and Minor Disturbances to Asbestos-Containing Material under one hundred square feet (<100 SF) or one hundred linear feet (<100 LF), except thermal system insulation (TSI) or surfacing materials (including but not limited to vinyl floor tiles, carpet or tile mastics, transite board, sheetrock wallboard, ceiling tile mastics):

1. Minor work affecting non-friable materials, such as drilling molly anchors into wallboard or seismically bracing equipment through asbestos-containing vinyl floor tiles, may be completed by construction workers or maintenance personnel following procedures under the General Industry Asbestos Standards, 8 CCR 5208. Such workers shall have initial training regarding the hazards of the operation, control procedures, and hands-on training on anchoring procedures. Workers with over thirty (30) days of exposure to such activities, exceeding one (1) hour duration per day, shall comply with Cal/OSHA’s medical surveillance requirements. Protective clothing, including full body coveralls and half-facepiece HEPA-filtered respirators shall be worn by all workers within the regulated controlled renovation zone unless a negative exposure assessment has been produced to show lower levels of protection are acceptable.

2. Demarcate the area of exposure to minimize traffic within the area and to protect persons outside the area from airborne asbestos exposures, even if a negative exposure assessment has been produced.

3. The following materials are classified as not “surfacing” materials for controlled renovation purposes involving anchoring or minor disturbances:
   a. Wall and ceiling troweled-on plasters over metal or wooden lath or buttonboard, except acoustical plasters or decorative plasters with an appearance like acoustical plaster.
   b. Stucco.
   c. Paint that has been sprayed-on or otherwise applied to a wall, ceiling, eave, etc.
   d. Sheetrock wall and ceiling board and joint compounds, including joint compounds applied for texturing purposes that are not otherwise classified as acoustical plasters.
   e. Cement or plaster skimcoats on concrete or sheetrock with a smooth finish.
   f. Floor leveling compounds.
   g. Mastics troweled-on concrete floor surfaces to adhere resilient tiles.

4. Assemble equipment and supplies, including but not limited to a Hudson sprayer, an HEPA-filtered vacuum, polyethylene drop cloths and wetted sponges.

5. Install a drop cloth below the area to be disturbed and shoot or drill the anchor through the wetted sponge or cut the material through a wetted sponge, as applicable. HEPA vacuum the area following all work and place the sponge and debris into a sealed plastic disposal bag. Do not use these procedures on asbestos-containing thermal system insulation (TSI) or asbestos-containing surfacing materials, such as asbestos fireproofing or acoustical sprayed-on plaster finishes.

6. Immediately clean-up all debris dislodged from coring or drilling through asbestos and trace asbestos substrates using a wetted sponge and HEPA vacuum. Contamination of the site by use of improper procedures will require extensive clean-up and clearance air sampling by the District, at the Contractor’s expense.

7. Vinyl Floor Tiles (Where Applicable): Cordon off the room or area and remove the floor tiles before drilling through the concrete or wooden substrate, where feasible, using water to dislodge the tiles. Where tiles cannot be removed in advance of coring, saturate the tile with shave cream and core through the tiles, frequently wiping up all chips and debris and disposing as Category 1 non-friable waste. Continue using wet methods and reapply shaving cream as a barrier to prevent airborne releases. Wet wipe with a clean sponge and HEPA vacuum the area upon completion of work. Do not let cores and intact ACM debris to fall into the ceiling plenum or crawl space below.
8. Carpet Mastics: Cordon off the room or area and cut-out the carpeting and mastics using a carpet knife, saturating the carpet with water to prevent airborne asbestos fiber releases. Remove excess mastics using a mastic remover with a flash point greater than 140 deg. F., as approved by the District. Dispose of the carpet segment and mastics as Category 1 non-friable waste. Wet wipe and HEPA vacuum the area following completion of the controlled renovation procedures.

9. Vinyl Floor Tile Mastics (Where Applicable): Cordon off the room or area and remove the mastics using a mastic remover with a flash point greater than one hundred and forty degrees Fahrenheit (>140 deg. F.), as approved by District. Dispose of the mastic and rags as Category 1 non-friable waste. Wet wipe and HEPA vacuum the area following completion of the controlled renovation procedures.

10. Sheetrock Wall or Ceiling Board: Shoot or drill anchors through a wetted sponge, where feasible. Cordon off the room or area and cut holes for receptacles or other devices using drop cloths on the ground and wet methods. Remove the sheetrock avoiding the joint compounds, where feasible. Continually wet the controlled renovation area during the process and wet wipe and HEPA vacuum the area following completion of the controlled renovation procedures. Dispose of the sheetrock and joint compounds as “trace” non-hazardous waste.

11. Thin-Layered Asbestos-Containing Paints (Where Applicable): Shoot or drill anchors through a wetted sponge, where feasible. Cordon off the room or area and core using drop cloths on the ground and wet methods. Continually wet the controlled renovation area during the process and wet wipe and HEPA vacuum the area following completion of the controlled renovation procedures. Dispose of the paints as Category 1 or 2 non-friable wastes as determined by the substrate’s composition.

12. Other Non-Friable Materials: Complete controlled renovation procedures in compliance with Cal/OSHA’s Work Class 2 procedures per 8 CCR 1529.

13. A qualified Asbestos Abatement Contractor shall complete work exceeding one hundred square feet (100 SF) or one hundred linear feet (100 LF) or affecting friable asbestos surfacing materials, thermal system insulation (TSI) or RACM.

C. Controlled procedures for installation of anchors or coring through friable asbestos materials, including but not limited to sprayed-on or troweled-on acoustical plasters, structural fireproofing, and linoleum backing (as applicable):

1. Avoid contact with friable ACM where practical. Anchor to non-ACM materials where feasible.

2. Install drop cloths on the ground and use a glovebag or mini-containment constructed of 6-mil polyethylene sheeting to contain work affecting friable materials.

3. Wet the ACM with water and remove limited material as required for installations. Immediately clean-up all debris and seal the waste in a double 6-mil disposal bag for disposal as asbestos waste.

4. Clean-up the immediate area using wet methods and a HEPA vacuum. Dispose of friable plasters, linoleum backing, fireproofing and thermal system insulation as friable asbestos waste.

5. Fireproofing and Textured Acoustical Plasters: Cordon off the area and set-up negative pressurization of the controlled renovation activity using glovebag or mini-containment methods. Do not drill or core openly through friable ACM; a Certified Asbestos Worker only under Cal/OSHA Work Class I or III procedures, as applicable shall complete such work. Wet the materials throughout the controlled renovations. Do not allow ACM on cores to fall into the ceiling plenum or Crawl Space below. Following the controlled renovation activities, clean-up the mini-containment using wet methods and a HEPA vacuum. Gooseneck and dispose of the glovebags, where applicable, within a double waste bag.

6. Thermal System Insulation (TSI): Avoid disturbing intact pipe and fitting lagging. Work within posted Crawl Spaces or plenums will require respiratory protection for all workers entering such zones, and use of personnel
and equipment decontamination procedures in compliance with 8 CCR 1529. Avoid contacting TSI while installing conduit, etc. Use glovebag or mini-containment procedures for controlled renovation work as described above and in compliance with Cal/OSHA’s Work Class III procedures per 8 CCR 1529. Dispose of lagging as friable asbestos waste.

7. Linoleum Backing: Cordon off the room and work area and cut-out the linoleum, using a carpet knife prior to coring. Wet the backing using water and shave cream and remove the asbestos-containing backing intact. Dispose of debris as friable asbestos waste. Wet wipe and HEPA vacuum the area of the controlled renovations for final clearance. Do not allow linoleum on cores to fall into the ceiling plenum or Crawl Space below, as applicable.

8. Other Friable Asbestos: Remove materials in compliance with Cal/OSHA Work Class 3 procedures per 8 CCR 1529.

9. Avoid contact or disturbance with intact asbestos-containing pipe lagging within concealed wall and plenum areas as well as within all accessible areas. Notify the Contractor’s Hazardous Materials Supervisor (HMS) of the presence of damaged ACM materials, if accidentally contacted.

D. Demolition of non-ACM obstructing known intact ACM.

1. Remove non-contaminated and non-asbestos materials for access using standard dust control procedures as required for painted assemblies, etc.

2. Minimize disturbances to substrates concealing friable or damaged asbestos-containing materials, such as laid-in ceiling tiles concealing asbestos-containing fireproofing, demolition of non-ACM partitions which may destabilize sprayed-on asbestos-containing acoustical finishes, etc. Qualified workers shall complete Work impacting asbestos-containing materials only.

3. Remove and dispose of non-contaminated waste, where feasible. Alert the Contractor’s Hazardous Material Supervisor of contaminated conditions for proper removal and disposal and cordon off the affected areas where contamination is encountered. Do not dry sweep affected wastes and debris.

E. Unexpected exposure to known or suspect intact ACM.

1. Where asbestos materials are intact, such as intact pipe lagging, proceed to remove the affected substrate and immediately label the asbestos material with a “caution” sign to prevent unintentional disturbances.

2. Where asbestos materials uncovered are damaged or unknown asbestos contaminated conditions are encountered, discontinue work in the immediate contaminated area, shutdown the areas HVAC system, if not already disengaged, and alert the Contractor’s Hazardous Materials Supervisor of the conditions for proper removal and disposal.

F. Unexpected release of asbestos into the environment.

1. Cordon off the immediate area (about ten to twenty feet (10-20 ft.) radius average minimum), and shutdown the area’s HVAC system (if applicable).

2. Notify the Contractor’s Hazardous Materials Supervisor for proper removal and disposal using wet methods and HEPA-filtered vacuums. Clean-up work shall be completed under the directions of a Competent Person with sixteen (16) hour minimum EPA Operations and Maintenance asbestos training and by workers with two (2) hours asbestos awareness training minimum unless exposures exceed the permissible exposure limit of one tenth fiber per cubic centimeter (0.1 fibers/cc).

3. Decontaminate or dispose of friable waste in double six (6) mil thick goosenecked labeled waste bags for manifesting and disposal.
G. Procedures for reporting Suspect Asbestos Containing Materials.
   1. Advise the Contractor’s Hazardous Materials Supervisor (HMS) of suspect conditions for testing by the District. Do not remove or disturb suspect materials until tested and approved.

H. Perimeter Action Level: Failure of the Contractor to follow wet methods, immediate clean-up, and fiber control procedures as outlined herein resulting in exceedances to the Perimeter Action Level of one hundredth fiber per cubic centimeter (>0.01 fibers/cc) by Phase Contrast Microscopy at the perimeter of the regulated area or within adjoining occupied zones as measured by the District shall result in clean-up and analysis of the samples by Transmission Electron Microscopy (TEM) at the Contractor’s expense.

3.3 LEAD HAZARD CONTROL PROCEDURES

A. Prohibited Activities Not Specified in this Section.
   1. Lead-related construction work affecting lead-based paints or lead-contaminated soils as defined under DHS. Refer to Section 02090 - Hazardous Materials Abatement and Control.

B. Prohibited Activities:
   1. Open flame burning or torching of lead-based paints or presumed lead-based paints, including use of propane-fueled heat grids.
   2. Scraping, sanding, or grinding of lead-based paints or presumed lead-based paints without proper containment or a HEPA local vacuum exhaust tool.
   3. Sanding, grinding, needle gunning or blasting with tower tools not equipped with a shroud and HEPA vacuum attachment within EPA RR&P regulated pre-1978 public housing or public or commercial child occupied facilities.
   4. Uncontained hydroblasting or high pressure washing of lead-based paints or presumed lead-based paints.
   5. Abrasive blasting or sandblasting or lead-based paints or presumed lead-based paints without proper containment or a HEPA local vacuum exhaust or dust collector.
   6. Heat guns operating above eleven hundred degrees Fahrenheit (>1,100 deg. F).
   7. Dry sweeping of debris and removal of surface coatings by torch or flame.
   8. Disturbance of lead-painted or lead-coated surfaces scheduled to remain within the structure(s) by cutting, sawing, grinding, or other construction operations without adequate dust controls.
   9. Eating, smoking and drinking in or in the proximity of lead hazard operations.
   10. Removal of lead-containing coatings with a torch or flame, except as a result of unavoidable welding or torching of back-to-back structural elements that cannot be adequately previously abated without affecting the integrity of the structure.
   11. Steam cleaning and compressed air removal for lead-based paints or presumed lead-based paints.
   12. Lead hazard contamination beyond the containment barriers.

C. Handling:
   1. For existing lead-painted or lead-coated surfaces that are indicated to remain, advise workers of the potential hazards.
2. For areas where handling or disturbance of loose or peeling paints are required, verify that the paint that remains on interior walls, ceilings, and other surfaces in areas of active work, as applicable, is adhered to the substrate sufficiently to support eventual repainting. Paints that peel or loosen during wetting shall be handled and removed as specified in this Section.

3. Clean debris and surfaces with HEPA-filtered vacuums and wet methods. Dry sweeping is not permitted.

4. Show where existing lead-painted or lead-coated surfaces are scheduled to remain, workers shall be advised of the potential hazard of these materials with all work completed by qualified workers.

5. Shoveling, wet sweeping, and brushing may be used only where vacuuming or other equally effective methods have been tried and are found to be ineffective.

6. Loose debris and scraped materials with a lead content greater than one milligram per cubic meter (1.0 mg/m$^3$) or one half of one percent (0.5%) by weight shall be treated as hazardous waste. Construction waste coated with intact lead paints or glazing may be disposed as construction debris in accordance with Cal/EPA requirements.

7. Workers shall decontaminate themselves and appropriate equipment prior to eating, drinking and smoking.

D. Recycling: Items to be recycled, such as but not limited to lead roof flashings or lead sheeting, shall be accompanied with a bill of lading and a memorandum from the recycler acknowledging that lead may be present and work activities and disposal will comply with applicable regulations. Submit in accordance with procedures of Section 01300 – Submittals.

E. Cleaning: Provide daily “housekeeping” on the project site including, but limited to:

1. Clean-up of loose debris and contamination daily prior to leaving the job site, or covering with tarpaulins to prevent unwanted disturbances.

2. Daily clean-up of traffic areas, using a HEPA vacuum or wet methods.

3. Repair of torn or damaged protective barriers.

F. Field Quality Control:

1. Maintain airborne dust levels within the regulated construction zone and throughout the construction site below the Cal/OSHA Project Action Level of 30 micrograms per cubic meter. Levels above the Project Action Level may require an upgrade in respiratory protection for all affected workers, as well as amended work practices and clean-up of affected areas at no additional cost to the District.

2. Maintain airborne lead dust levels at the site’s property line or adjoining occupied non-construction areas below the National Ambient Air Quality Standard (NAAQS) of 1.5 micrograms per cubic meter. Exceeding this level may require further isolation of the work areas, amended work practices, and clean-up of affected areas at no additional cost to the District.

3. All costs for additional sampling of contaminated areas, including the District’s time and expenses for handling, shipping, and analysis charges, required to show background levels below the lead standards specified within these Contract Documents shall be at the Contractor’s expense.

4. Failure by the Contractor to contain construction dust and debris and exceedances of the NAAQS standard of 1.5 micrograms/cubic meter outside the construction boundaries within adjoining occupied areas as measured by District will require detailed clean-up and additional clearance wipe sampling at the Contractor’s expense.

G. Project Hygiene Facilities: Provide project hygiene wash-up facilities including:
1. A 2-stage decontamination assembly, minimum, including an equipment and contiguous clean room with a bucket wash-up facility positioned outside all regulated work areas. The Equipment Room shall contain labeled bags for storing contaminated protective clothing and equipment. The Clean Room shall contain lockers and containers for storing employee street clothes and personal items, including a suitable supply of potable water to permit each employee to wash their hair, hands, forearms, face and neck. Provide one (1) wash station minimum for every ten (10) workers.

2. Sufficient sets of protective full-body clothing to be worn in the designated work areas and whenever a potential airborne lead hazard exists. Clothing shall include, but not be limited to, full-body coveralls, headgear, eye protection, and gloves. Disposable-type protective clothing is acceptable.

H. General Dust Controls: Provide general dust control including:

1. Hudson or airless sprayers for wetting-down construction materials and debris throughout demolition or scraping phases.

2. Fire-retardant polyethylene dust barriers.

3. HEPA-filtered vacuum for clean-up of loose debris and suspect contamination.

4. Polyethylene drop cloths for protection of floors, furnishings, landscaping, etc., as applicable, to prevent contamination or damage to building surfaces, equipment or finishes.

I. Warnings and Signs: Provide the following minimum signs and posting requirements:

1. In compliance with the EPA’s New Renovation, Repair & Painting Rules (RR&P) targeted for housing and child occupied facilities, provide the “Renovate Right” brochure to owners and occupants prior to lead hazard work.

2. Cordon off the proximity (within approximately twenty feet (20 ft.)) of regulated work areas using construction tape, polyethylene dust barriers, or other appropriate means. Persons entering the regulated “cordoned” work areas shall wear appropriate respiratory protection and full-body coveralls.

3. Affix warning signs at the entry and approaches to the regulated areas.

4. Lockout electrical and HVAC equipment within the regulated area, as necessary.

3.4 PCB BALLASTS DISPOSAL PROCEDURES

A. Identify PCB ballasts: All ballasts not specifically labeled “non-PCB” or “PCB free” shall be considered PCB-containing.

B. Prohibited Activities Not Specified in this Section: Removal of ballasts from fixtures with hazard awareness training as indicated by the Contractor’s Hazardous Materials Supervisor.

C. Procedures for Removal of Non-Leaking Ballasts: Non-leaking ballasts shall be removed from their fixtures and packed in kitty litter-lined steel drums for hazardous waste disposal. Workers removing ballasts may require protective gloves as a precaution against unforeseen leaks or damage.

A. Procedure for Handling Leaking PCB Ballasts:

1. Workers removing ballasts from fixtures shall wear protective clothing and nitrile or neoprene gloves.

2. Leaking ballasts pose a health and safety hazard and shall therefore be removed by trained workers only (Cal/OSHA 40-hour Hazwoper training is recommended).
3. Wipe down the fixture showing signs of overheated or leaking ballasts with paper towels after the unit has been cooled to room temperature.

4. Follow with additional wiping with an organic solvent, e.g., mineral spirits or isopropyl alcohol.

5. Place leaking ballasts and rags into a plastic bag, which is tied-off and secured.

6. Pack the ballasts in steel drums for hazardous waste disposal.

B. Procedure for Disposal of PCB ballasts:

1. Pack PCB ballasts and bagged leaking ballasts and rags into a steel drum, sealed, labeled, and transported to an approved incinerator following required manifest procedures as specified in this Section.

2. Absorbent material, such as kitty litter, shall be used as a cushion and absorbent within the drums.

3. Do not exceed the incinerator’s drum loading requirements, typically 350 to 500 lbs. per drum.

4. Transport hazardous waste for disposal per the requirements under 22 CCR Section 66268.110.

5. Dispose as a hazardous waste per EPA Regulation 40 CFR 761.00 and 761.65 and Cal/EPA Regulation 22 CCR Section 66508.

3.5 MERCURY-CONTAINING LAMP AND THERMOSTAT REMOVAL AND RECYCLING PROCEDURES

A. Handling and Disposal of Lamps:

1. Spent fluorescent and other mercury-containing lamps and mercury-containing thermostats and switches shall be considered a hazardous waste by the California Department of Health Services (DHS; 22 CCR Section 66699(b)).

2. Ship lamps to a commercial recycler where they are to be crushed and the mercury reclaimed.

3. Comply with DOT requirements for manifests, with evidence of proper disposal provided to the District, including a log of shipping dates and quantities.

4. Load into secured cardboard boxes for shipment to prevent unnecessary breakage.

5. In the event of lamp breakage, clean-up broken glass and debris immediately, using a HEPA-filtered vacuum for final clean-up.

B. Handling and Disposal of Thermostats:

1. Remove, wrap and recycle or dispose as hazardous waste, as appropriate.

2. Comply with DOT requirements for manifests, with evidence of proper disposal provided to the District, including a log of shipping dates and quantities.

3.7 WASTE DISPOSAL AND MANIFESTING PROCEDURES

A. Hazardous Waste Disposal:

1. Packing, labeling, transporting, and disposing of hazardous waste shall comply with Cal/EPA regulations under 22 CCR, including completion of the Uniform Hazardous Waste Manifest Form (DTSC 8022A and EPA 8700-22). The Contractor shall be responsible for proper typing of the Manifest Forms in a neat, correct and legible fashion.
2. A “Waste Manifest” shall be completed for disposal of hazardous waste. The transporter shall possess a valid EPA Transporter I.D. number. The Contractor’s Hazardous Materials Supervisor shall notify the District’s Project Manager at least forty eight (48) hours prior to the time that the Manifest is required to be signed by the District.

3. Applicable information to be included in the “Waste Manifest” includes the following:
   a. EPA Generator I.D. Number: Verify with the District’s Project Manager.
   b. Generator's Name and Address & Tax I.D. Number: Verify with the District’s Project Manager.
   c. Pertinent project information within box fifteen (15) of the Manifest Form, including the Project Name and Project Number.

B. Disposal of Contaminated and Other Materials:
   1. Disposal of intact lead-coated architectural or structural elements may occur as non-hazardous waste in accordance with Cal/EPA’s and the Department of Toxic Substance Control’s requirements.
   2. Loose and peeling lead-based paints and miscellaneous lead debris shall be treated as hazardous waste, unless otherwise indicated. Lead wastes shall be profiled by the Contractor by means of standard digestion and extraction tests (TCLP, WET and SW846), as appropriate, and shall be manifested and properly disposed.

3.8 FINAL PROJECT CLEAN-UP AND REOCCUPANCY CLEARANCE CRITERIA PROCEDURES

A. Asbestos: Asbestos-containing materials will be abated with clearance by visual inspection of phase contrast microscopy (PCM) or transmission electron microscopy (TEM) as outlined under the “Asbestos Abatement” or “Hazardous Materials Abatement and Control” Sections, as applicable.

B. Lead Hazards:
   1. Visual Inspection: Final clean-up prior to the District’s reoccupancy or Substantial Completion shall include wet wiping using a TSP solution and HEPA vacuuming all suspect dust and debris for final visual inspection or wipe dust sampling as outlined under the “Lead Hazard” or “Hazardous Materials Abatement and Control” Sections, as applicable.
   2. Final Reoccupancy Cleaning:
      a. Final clean-up prior to District’s reoccupancy shall include wet wiping using a TSP solution and HEPA vacuuming all suspect dust and debris areas.
   3. Final Reoccupancy Clearance:
      a. Following the final clean-up, the District may visually inspect for any loose dust or debris, followed by wipe sampling of the settled dust to document surface lead levels below the specified clearance levels. Samples will be collected using commercial wipes moistened with a non-alcohol wetting agent. A one-foot square area (1 SF) will be wiped in an “S” pattern, folding the wipe inward and placing it in a labeled sample container. The wipe sample will be analyzed by flame atomic absorption using NIST Standard 1578.
      b. The Contractor shall reclean the zone when surface concentrations exceed the following “EPA Dust Clearance Standards:”
         40 micrograms/SF for floors
         250 micrograms/SF for interior window sills and stools
         400 micrograms/SF for exterior window sills and interior window wells
c. Areas that do not comply with the "Final Reoccupancy Clearance Criteria" shall continue to be cleaned by
and at the Contractor's expense until the specified criteria is achieved, as evidenced by results of inspections
as previously specified.

END OF SECTION 01110
SECTION 02090
HAZARDOUS MATERIALS ABATEMENT AND CONTROL

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SECTION 02090

HAZARDOUS MATERIALS ABATEMENT AND CONTROL

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes: Minimum requirements for hazardous materials handling, control, and abatement activities, as applicable, including, but not necessarily limited to:

1. Hazardous materials controls.
2. Handling and disposal of asbestos-containing building materials (ACBM).
3. Handling and disposal of lead-based paints and lead-containing materials.
4. Demolition associated with access to hazardous materials.
5. Criteria for abatement zone clearance testing.

B. Related Documents:


C. Related Sections:

2. Section 01300 - Submittals.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

3. E849: Safety and Health Requirements Relating to Occupational Exposure to Asbestos.”

B. American National Standards Institute (ANSI):

2. Z41.1: “Men’s Safety Toe Footwear.”
4. Z87.1: “Practice for Occupational and Educational Eye and Face Protection.”
7. Z89.1: “Requirements for Industrial Head Protection.”

C. National Fire Protection Association (NFPA):


D. California Department of Industrial Relations, Division of Occupational Safety and Health (Cal/OSHA):

1. Title 8 California Code of Regulations (8 CCR) Section 5144 - Respiratory Protection.
2. Title 8 California Code of Regulations (8 CCR) Section 1532.1 - Construction Lead Standard.
3. Title 8 California Code of Regulations (8 CCR), Article 4, Section 1529 - Asbestos Standard for the Construction Industry.
4. Title 8 California Code of Regulations (8 CCR) Sections 3203 and 1509 - Injury and Illness Prevention Program.
5. Title 8 California Code of Regulations (8 CCR), Article 110, Section 5208 - Asbestos Standard for General Industry.
6. Title 8 California Code of Regulations (8 CCR), Article 2.5, Section 341.6 for employer registration when disturbing more than one hundred square feet (100 SF) of ACCM.

E. U. S. Department of Housing and Urban Development (HUD): Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing,” referred to as the “HUD Guidelines.”

1.3 DEFINITIONS

A. Abatement: as defined by the Department of Health Services for lead hazards work, includes any set of measures designed to reduce or eliminate lead hazards.

B. Activity Class/Category - Lead: Lead hazard designations assigned to work activities that involve lead-containing materials. Activities that fall into Classes I through III, including as examples the operations defined below, are required to assume the following personal airborne exposure levels, unless otherwise demonstrated.

1. Activity Class I: exposure below five hundred micrograms per cubic meter (<500 µg/m³).
   a. Surface clean-up of lead-containing dust or debris less than fifteen thousand micrograms per square foot (<15,000 µ/SF);
   b. Spray painting with lead-based paints; Manual demolition of structures (e.g. drywall, plaster, etc.);
c. Manual sanding, grinding, needle gunning, chiseling, hammering, wire brushing, milling or scraping of lead-based coatings;

d. Head gun removal of any surface coating; and power tool cleaning with dust collection systems.

2. Activity Class II: exposure greater than five hundred micrograms per cubic meter (>500 µg/m³) and less than twenty five hundred micrograms per cubic meter (<2,500 µg/m³).

   a. Using lead mortar;
   b. Lead burning;
   c. Rivet busting;
   d. Power tool cleaning without dust collection systems;
   e. Clean-up of dry abrasive; and
   f. Abrasive blasting enclosure movement and removal

3. Activity Class III: exposure greater than twenty five hundred micrograms per cubic meter (>2,500 µg/m³).

   a. Abrasive blasting of any coated surfaces;
   b. Welding on any coated surfaces;
   c. Torching or cutting on any coated surfaces; and
   d. Torch burning of any coated surfaces.

C. Asbestos Work Class: Activities for removing asbestos materials by categories are as follows:

1. Work Class I: Activity involving removal of TSI and surfacing asbestos-containing materials (ACM) or friable presumed asbestos-containing materials (PACM).

2. Work Class II: Activity involving removal of TSI and surfacing asbestos-containing materials (ACM) or friable presumed asbestos-containing materials (PACM).

3. Work Class III: Repair and maintenance operations where TSI or surfacing is likely to be disturbed, which fits within one standard glovebag or waste container under sixty (60) inches.

4. Work Class IV: Maintenance and custodial activities during which employees contact but do not disturb PACM or ACM and activities to clean-up dust, waste and debris resulting from Work Class I, II, and III activities.

D. Certified Lead Worker: includes those who do lead-related construction work activities on a work site under the directions of a Certified Lead Supervisor, including:

1. Removal, disposal or abatement of loose and peeling lead-based paints as defined by HUD, including scraping, demolition or other Cal/OSHA Activity 1 through 3 work as defined above.

2. Removal or repair of lead plumbing.
3. Repainting or general construction on surfaces painted with lead-based paints.

4. Removal, enclosing or covering of lead-contaminated soils.

5. Note that renovations, remodeling, painting, operations and maintenance work or other activities listed above that are considered to be interim controls, or lasting under twenty (20) years, may be completed by workers satisfying Cal/OSHA’s asbestos awareness training requirements only.

E. **Certified Lead Supervisor:** includes those who supervise daily work activities on a lead-related construction site, as well as supervision of repainting or general construction performed on surfaces with lead-based paints where abatement is designed to permanently reduce or eliminate lead hazards for public (non-industrial) buildings or to last more than twenty (20) years. The Certified Lead Supervisor shall oversee the Certified Lead Workers, enforce safe work practices, and schedule and coordinate work site activities with the building occupants and other contractors and consultants.

F. **Containment:** as defined by the California Department of Health Services includes any system, process or barrier used to contain lead hazards in a work area, including plastic sheeting, wet scraping, and other lead-safe work practices as described in the HUD Guidelines, Chapter 8.

1.4 **SUBMITTALS**

A. **Asbestos:**

1. Submit the following, in accordance with Section 01300 - Submittals, prior to Commencement of the Abatement Work:
   a. Proof of current Asbestos Contractor's license (CSLB).
   b. Proof of current California Department of Health Services (DHS) Asbestos Contractor's registration certification.
   c. Valid and current BAAQMD notification for the Project.
   d. Cal/OSHA 24-hour Temporary Worksite Notification for Asbestos and Methyleneedianiline-Related Work per 8 CCR 1529 for disturbances exceeding one hundred square feet (>100 SF), or friable asbestos abatement activities.
   e. Worker documentation, including:
      1). Current AHERA training certifications - supervisor/competent persons.
      2). Current AHERA training certifications - workers.
      3). Respiratory fit test records within the past 12 months minimum, or in compliance with 8 CCR 5144.
      4). Medical examination approvals for respirator use within the past 12 months, or in compliance with 8 CCR 5144.
   f. Written asbestos abatement work plan and schedule as part of the Contractor’s Hazardous Materials Management Plan (HMMP) to be submitted in accordance with Section 01110 - Hazardous Materials Procedures.
g. Material Safety Data Sheets (MSDS) for chemicals used.

h. Emergency phone number and pager listing.

i. DOP testing of negative pressure units and HEPA-filtered vacuums.

j. Rotameter calibration data within past six (6) months.

k. Negative Exposure Assessment, as warranted, where personal protective equipment differs from minimal requirements established by Cal/OSHA’s Construction Industry Standards.

2. Submit the following, in accordance with Section 01300 - Submittals, within five (5) calendar days of the request by the Owner or within five (5) calendar days of completion of the abatement or hazard control work.

   a. Contractor daily personal air-monitoring data.

   b. Updated worker documentation, as needed.

   c. Daily boundary access logs.

   d. Daily negative pressure records, as applicable.

   e. Copies of updated schedules and notices to regulatory agencies, as needed.

   f. Receipt and weight tickets from landfill operator or incinerator, as applicable.

   g. Copies of completed uniform waste manifests.

   h. Certification of Completion.

B. Lead-Related Work:

1. Submit the following, in accordance with Section 01300 - Submittals, prior to commencement of the lead-related work:

   a. Worker documentation, including:

      1). Current DHS Certified Lead Supervisor training certificates.

      2). Current lead awareness training certificates – workers.

      3). Respiratory fit test records within the past twelve (12) months minimum, or in compliance with 8 CCR 5144.

      4). Medical examination approvals for respirator use within the past 12 months, or in compliance with 8 CCR 5144.

      5). Blood lead test within past 90 days.

   b. Abatement Plan prepared by a Certified Lead Supervisor, Certified Lead Project Monitor, or Certified Lead Project Designer including:
1. detailed lead hazards control and management measures.

2. a detailed description of abatement methods, locations and components where abatement is planned.

3. a recommended schedule for reinspection.

4. instructions to maintain potential lead hazards in safe condition.

c. Notification for abatement exceeding 100 SF per Cal/OSHA regulation 8 CCR 1532.1 for HUD-defined and presumed lead-based paints.

d. Material safety data sheets for chemicals used.

2. Submit the following, in accordance with Section 01300 - Submittals, within five (5) calendar days of the request by the Owner or within five (5) calendar days of completion of the abatement or hazard control work.

a. Updated worker documentation, as needed.

b. Contractor periodic personal air-monitoring results.

c. Receipt and weight tickets from landfill operator or recycler as applicable.

d. Waste profiling data (TCLP, WET, and SW846, as applicable).

1.5 QUALITY ASSURANCE

A. Qualifications:

1. Asbestos Abatement Work: Only qualified persons shall engage in asbestos abatement activities. Work involving asbestos-containing materials exceeding 100 square feet (SF) or 100 linear feet (LF) shall be completed by a Contractor holding a valid asbestos handling license issued by the California State Contractors Licensing Board (SCLB) and a valid current Certificate of Registration for Asbestos-Related Work as issued by the California Department of Industrial Relations - Division of Occupational Safety and Health (Cal/OSHA). Work shall be completed under the on-site supervision of a Competent Person as defined by OSHA Regulation 29 CFR Part 1926.1101 (8 CCR 1529 in California). All abatement workers shall have AHERA training with annual 8-hour refresher training, current medical exams for the use of respiratory protection, and current fit test of appropriate respirators.

2. Lead Hazard/Abatement Work: Only qualified persons with DHS approved Lead Workers training, current medical examinations and approval for the use of respiratory protection, and current fit testing of respirators under the direct supervision of a DHS approved Lead Abatement Supervisor shall engage in work defined under Cal/OSHA regulation 8 CCR 1532.1 affecting lead-based paints and lead construction hazards, including but not limited to:

a. Working in an environment where lead exposures exceed 30 micrograms per cubic meter.

b. Abating lead-based paints, including but not limited to abatement of loose and peeling lead-based paints, demolition and disposal of concrete-encased primed structural steel and/or stripping of lead coatings from structural steel prior to torching or welding.
B. Regulatory Requirements: The Contractor shall be alerted to and familiar with the following laws and regulations regarding the hazards, control measures, management, characterizing, transport and disposal of hazardous wastes:

1. Asbestos Abatement Work: All labor, materials, facilities, equipment, services, employees and training, and testing necessary to perform the work required for asbestos abatement and disposal of waste shall be in accordance with these Specifications and the most current regulations, including but not limited to:

   a. Environmental Protection Agency NESHAP and AHERA regulations (40 CFR Part 763, as applicable).
   b. Occupational Safety and Health Administration (inclusive of OSHA 29 CFR 1926.1101)
   c. California Department of Occupational Safety and Health (inclusive of Cal/OSHA 8 CCR 1529)
   d. California Environmental Protection Agency (Cal/EPA).
   e. Bay Area Air Quality Management District (BAAQMD), Regulation 11, Rule 2.
   f. Other applicable federal, state, and local governmental regulations pertaining to asbestos-containing materials (ACM) and asbestos waste.

2. Lead Hazard/Abatement Work: All labor, materials, facilities, equipment, services, employees and training, and testing necessary to perform the work required for lead abatement, demolition, decontamination, hazard control, and disposal of waste shall be in accordance with these Specifications and the most current regulations, including but not limited to:

   a. Environmental Protection Agency National Ambient Air Quality Standards, as applicable (40 CFR 61).
   b. Occupational Safety and Health Administration (inclusive of OSHA 29 CFR 1926.62).
   c. California Department of Occupational Safety and Health (inclusive of Cal/OSHA 8 CCR 1532.1).
   d. California Environmental Protection Agency (Cal/EPA), Title 22.
   e. California Department of Health Services (17 CCR Sections 35001 -35099).
   f. Other applicable federal, state, and local governmental regulations pertaining to lead hazards and lead waste.

C. Meetings:

1. Pre-Construction or Pre-Abatement Meeting:

   a. Prior to any abatement work, the Contractor is to attend a pre-construction meeting to be attended by representatives of the Owner, the Owner’s Consultants, the Contractor, the Hazardous Materials Abatement Subcontractor, and other Subcontractors whose work may be affected. The meeting agenda shall include the following considerations:

      1). Review of the Specifications and Plans in detail related to the abatement and hazards work. All conflicts and ambiguities, if any, shall be discussed.
2). Review the project conditions, schedule, construction sequencing, abatement application requirements, and quality of completed work.

3). Review in detail the means of protecting adjoining areas, protect of Contractor’s, Subcontractor’s, Owner’s workers, and completed work during the abatement activities.

4). Pre-job submittals requirements.

5). Site security requirements.

2. Weekly Meetings: At the Owner’s option, abatement projects extending over one week in length may require attendance of the Contractor at a weekly progress meeting. The purpose of this meeting is to review abatement and project scheduling, coordination with other trades, security and site-specific requirements.

1.6 TIME LIMITATION AND DELAY CHARGES

A. Complete all asbestos, lead, and other hazard work specified in this Section in no more than the allotted calendar days or work shifts as outlined in the Abatement Work Plan or as otherwise specified in the Contract Documents.

1. In the event of failure to complete the Work of this Section within the specified time, the Contractor shall pay liquidated damages in the amount of one thousand dollar ($1,000.00) per calendar day for each day of delay in completion of work beyond the number of days specified in Paragraph 1.6A or Section 01010 - Scope of Work. The specified amount of liquidated damages represents the Owner’s estimate of costs which include, but are not limited to, those of the Owner and the Owner’s Consultants for observations and inspections, daily air monitoring, equipment, transportation, and analysis charges which would be incurred by the Owner after the number of calendar days specified for completion of the Work of this Section.

PART 2 – PRODUCTS

2.1 ASBESTOS WORK - MATERIALS AND EQUIPMENT

A. Protective Devices:

1. Temporary wash stations or showers, disposable clothing, respirators, gloves, hard hats, and other required items.

2. Respirators shall protect against asbestos and other appropriate dusts, fumes and mists as approved by:

   a. the Mine Safety and Health Administration (MSHA).

   b. the National Institute for Occupational Safety and Health (NIOSH) under provisions of 30 CFR Part 11.

B. Waste Receptacles: Conform to federal and State regulations, with 6-mil minimum thickness or glovebags or waste bags.

C. Sealants and Polyethylene Sheeting:

1. Polyethylene sheeting shall be flame-retardant and approved and listed by the State Fire Marshal in accordance with Section 13121 and/or 13144.1 of the California Health and Safety Code.
a. Thickness and Size: six (6) mil thick minimum, unless otherwise specified, sized to minimize the frequency of joints.

b. Flammability: Comply with NFPA Standard 701 with a flame spread rating of no greater than five (<5) and a smoke development rating of no more than seventy (<70) when tested in accordance with ASTM E84 procedures.

2. Sealing Tape shall conform to the following:
   a. 2-inches or wider, capable of sealing joints of adjacent sheets of polyethylene and attaching polyethylene sheet to finished or unfinished surfaces or similar materials.
   b. Tape shall be capable of adhering under dry and wet conditions, including use of amended water.

3. Preservation Sealing Tape: Type specifically designed for adhering to critical or sensitive surfaces without damage to surface; 3M or equal.

4. Spray adhesives shall not contain methylene chloride or methyl chloroform (1,1,1-trichloroethane) compounds.

5. Fire resistant sealants shall be compatible with concrete, metals, wood, cable jacketing and other materials capable of preventing fire, smoke, water and toxic fumes from penetrating through sealants.
   a. Sealants shall be asbestos free and shall have a flame spread, smoke and fuel contribution of zero.
   b. Sealants shall be ASTM -and UL-rated for three (3) hours for standard method of fire test for firestop systems.

6. Lagging sealer for enclosing and sealing raw exposed edges of piping, fitting, equipment and duct insulation (as applicable) shall meet the requirements of NFPA 90A.

D. Surfactants and Encapsulants:
   1. Wetting agents or surfactants shall be effective and compatible with the ACM and ACBM being wetted.
   2. Bridging or penetrating type encapsulants shall have the following characteristics:
      a. Water based. Do not utilize an organic solvent in which the solid parts of the encapsulant are suspended.
      b. Non-flammable with no methylene chloride.
      c. U.L. listed encapsulants, in full-scale ASTM E119 fire test, compatible with W.R. Grace "Retroguard, RG-1" fireproofing with "Spatterkote" Type SKII bonding treatment for structural and decking widths exceeding twenty four (24) inches.
      d. Compatible with replacement materials, especially mastics, fireproofing, and adhesives.

E. Mastic Removers shall conform to the following:
   1. Non-flammable solvent or gel, with a flash point above one hundred and forty degrees Fahrenheit (>140 deg. F.).
2. Solvent waste shall not result in the generation of hazardous waste as described under 22 CCR, Division 4.

3. Removers shall not contain methylene chloride, halogenated hydrocarbons, or any of the following glycol ethers:

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Abbrev.</th>
<th>CAS#</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol methyl ether</td>
<td>EGME</td>
<td>109-86-4</td>
<td>2-methoxyethanol</td>
</tr>
<tr>
<td>ethylene glycol methyl ether acetate</td>
<td>EGMEA</td>
<td>110-49-6</td>
<td>2-methoxyethyl acetate</td>
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<td>ethylene glycol ethyl ether acetate</td>
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<td>EGDEE</td>
<td>629-14-1</td>
<td>1,2-dimethoxyethane</td>
</tr>
<tr>
<td>ethylene glycol diethyl ether</td>
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<td>1,2-diethoxyethane</td>
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<tr>
<td>diethylene glycol</td>
<td>DEG</td>
<td>111-46-6</td>
<td>2,2'-dihydroxyethyl ether</td>
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<tr>
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<td>DEGME</td>
<td>111-77-3</td>
<td>2-(2-methoxyethoxy) ethanol</td>
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<td>diethylene glycol dimethyl ether</td>
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<td>dipropylene glycol</td>
<td>DPG</td>
<td>110-98-5</td>
<td>2,2-dihydroxyisopropyl ether</td>
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</tbody>
</table>

F. Vacuums and Negative Pressure Units (NPUs) used for clean-up of materials and detail shall be HEPA-filtered. Provide DOP testing on-site for all units, unless otherwise noted in the Contract Documents.

2.2 LEAD-RELATED WORK - MATERIALS AND EQUIPMENT

A. Protective Devices:

1. Polyethylene drop cloths and dust barriers, temporary wash stations or showers, disposable clothing, respirators, gloves, hard hats, and other required items.

2. Respirators shall protect against lead and other appropriate dusts, fumes and mists as approved by:
   a. the Mine Safety and Health Administration (MSHA).
   b. the National Institute for Occupational Safety and Health (NIOSH) under provisions of 30 CFR Part 11.

B. Sealants and Polyethylene Sheeting:

1. Polyethylene sheeting shall be flame-retardant and approved and listed by the State Fire Marshal in accordance with Section 13121 and/or 13144.1 of the California Health and Safety Code.
   a. Thickness and Size: 6-mil thick minimum, unless otherwise specified, sized to minimize the frequency of joints.
   b. Flammability: Comply with NFPA Standard 701 with a flame spread rating of no greater than five (<5) and a smoke development rating of no more than seventy (<70) when tested in accordance with ASTM E84 procedures.

C. Sealing Tape shall conform to the following:

1. 2-inches or wider, capable of sealing joints of adjacent sheets of polyethylene and attaching polyethylene sheet to finished or unfinished surfaces or similar materials.
a. Tape shall be capable of adhering under dry and wet conditions, including use of amended water.

b. Preservation Sealing Tape: Type specifically designed for adhering to critical or sensitive surfaces without damage to surface; 3M or equal.

c. Spray adhesives shall not contain methylene chloride or methyl chloroform (1,1,1-trichloroethane) compounds.

d. Fire resistant sealants shall be compatible with concrete, metals, wood, cable jacketing and other materials capable of preventing fire, smoke, water and toxic fumes from penetrating through sealants.

1). Sealants shall be asbestos free and shall have a flame spread, smoke and fuel contribution of zero.

2). Sealants shall be ASTM -and UL-rated for three (3) hours for standard method of fire test for firestop systems.

D. Provide waste receptacles that meet federal and State regulations.

E. Paint Removers shall conform to the following:

1. Non-flammable removing solvents or gels, with a flash point above one hundred and forty degrees Fahrenheit (>140 deg. F.).

2. Solvent waste shall not result in the generation of hazardous waste as described under 22 CCR, Division 4.

3. Removers shall not contain methylene chloride, halogenated hydrocarbons, or any of the following glycol ethers.

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<td>DPGM</td>
<td>110-98-5</td>
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</table>

F. Cleaning Agents: Cleaning agents, equipment, and methods employed shall not in any way damage the substrate or adjoining surfaces and finishes. Cleaning solvents shall be non-injurious to the surfaces upon which they are applied. The methods used shall cause no pitting, erosion or damages to the surfaces.

1. Do not use chemicals that may attach or leave deposits on the substrate material.

2. Modify the process or processes to suit the finish, hardness, and condition of the surface to be cleaned.
G. Vacuum and negative pressure units shall be HEPA-filtered for clean-up of loose debris and contaminants. Provide DOP testing on-site for all units, unless otherwise noted in the Abatement Work Plan.

2.3 OTHER HAZARDOUS MATERIALS - MATERIAL AND EQUIPMENT

A. Waste Containers:

1. Provide sealable metal drums, 55-gallon capacity, with sealable lids. Label the drums in accordance with EPA and DTSC requirements, including the Generator I.D. or location identification and manifest number. Drums shall be air and water tight.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Review the hazardous material report(s) to familiarize oneself with hazardous material locations and conditions, and previous abatement by others, as applicable.

B. Review site conditions to verify quantities, work zones, available utilities, security, etc.

3.2 PREPARATION

A. Minimum Protective Procedures for Asbestos Work:

1. Protection of Visitors and Other Site Personnel: Cordon off the abatement area(s) with appropriate signs, and provide temporary tunneling or scaffolding, as applicable.


3. Provide site security to assure that no member of the public is able to gain access to the asbestos work area at any time. Maintain access and egress routes at all times.

4. Provide worker training, respiratory protection, and medical examinations to meet applicable regulations.

5. Provide temporary lighting and power to work areas, including installation of ground fault interrupters.

6. Fully ground all equipment within the work zone and decontamination assemblies.

7. Establish negative pressure in work area(s) as required under 8 CCR Section 1529. Note that where approved by the Owner, negative pressure units may be removed overnight from unoccupied building where site security and equipment are at risk. Under such conditions, the Contractor shall be responsible for sealing all openings and the decontamination assembly before completion of the day’s work and reestablishing negative pressurization of the zone before abatement commences.

8. Construct enclosure system(s) for worker and equipment decontamination.

9. Provide workers with sufficient sets of protective full-body clothing to be worn in the designated work area and whenever a potential exposure to airborne asbestos or potential safety hazards exists. Such clothing shall include but not be limited to: full-body coveralls, headgear, eye protection, and gloves. Disposable-type protective clothing, headgear, and footwear may be provided.
a. Full-Body Clothing: Assure that workers wear hoods covering their hair in the designated work areas at all times. Do not wear protective clothing in lieu of street clothing outside the work area. Leave non-disposable-type protective clothing and footwear in the wash room until the end of the asbestos abatement work. An acceptable alternative to disposal is proper storage in a sealed and labeled container so that containers would be opened and clothing reused only in an asbestos work area.

b. Eye protection: Provide eye protection to be worn as required by applicable safety regulations. Wear eye protection at all times within the asbestos work areas during all phases of work: preparation, removal, clean-up, encapsulation, waste handling, and similar operations. When appropriate, based on regulatory mandates, a full facepiece respirator may be worn to satisfy this requirement. Equipment shall conform to ANSI Z87.1. Use of contact lenses with respiratory protection is prohibited.

c. Head Protection: Provide hard hats or other head protection as required by applicable safety regulations, conforming to ANSI Z89.1, Class A or B.

d. Foot Protection: Provide nonskid footwear to all abatement workers, conforming to ANSI Z41.1, Class 75.

B. Minimum Protective Procedures for Lead-Related Work:

1. Follow, at the minimum, dust control procedures as outlined under Cal/OSHA regulation 8 CCR 1532.1 and DHS regulation 17 CCR Sections 35001 through 36100.


   a. Use respirators approved by the National Institute for Occupational Safety and Health (NIOSH).

   b. Provide respiratory protection to employees involved with lead-based paint demolition and/or abatement elements or as required for demolition work where employees may be occupationally exposed to lead at or exceeding the Action Level (AL) at no cost to the employees or Owner.

   c. Workers shall wear appropriate respiratory protection during lead hazards work, unless initial testing verifies that employee exposures are below the Action Level.

3. Site security to assure that no member of the public is able to gain access to regulated work areas. Maintain access and egress routes at all times.

4. Worker training, respiratory protection, medical examinations, and blood lead monitoring to meet applicable regulations.

5. Activity Class I work areas, as a minimum, with a two (2) stage decontamination assembly, including an equipment and contiguous clean room with bucket wash-up facilities positioned as follows:

   a. Equipment Room shall have lockers or labeled bags and containers for storing contaminated protective clothing and equipment.

   b. Clean Room shall have lockers or containers for storing employee's street clothes and personal items. Clean Room shall also contain a suitable supply of potable water to permit each employee to wash his or her hair, hands, forearms, face and neck.
6. Sufficient sets of protective full-body clothing for workers to be worn in designated work area and/or whenever a potential airborne lead hazard exists. Clothing shall include, but not be limited to, full-body coveralls, headgear, eye protection, and gloves. Disposable-type protective clothing, headgear and footwear are acceptable.

7. Full-Body Clothing: Workers shall wear hoods covering their hair in the designated lead hazard work areas at all times.
   a. Wearing of protective clothing, in lieu of street cloths, outside the work area is not permitted.
   b. Non-disposable-type protective clothing and footwear shall be left in the Wash Room decontamination assembly for disposal.
   c. The use of cloth coveralls following the prescribed laundry procedures as identified in 8 CCR, 1532.1 is acceptable.

8. Eye Protection: Eye protection, conforming to ANSI Z87.1 shall be worn at all times within the lead hazard areas.

9. Head Protection: Hard hats or other head protection as required by applicable safety regulations and conforming to ANSI Z89.1, Class A or B.

10. Foot Protection: Construction workers shall use non-skid footwear conforming to ANSI Z41.1, Class 75.

C. Site Protective Controls:

1. Protect against unnecessary disturbances or damages to sensitive finishes or furnishings that will remain within the facility.

2. Locate temporary scaffolding and containment barriers, as required, and proceed with the construction or demolition, allowing for continued operation of any adjacent occupied areas, as applicable.

3. Protect existing furnishings and building finishes from water, lead dusts, or chemical strippers.

4. Erect temporary protective covers over pedestrian walkways and at points of passage for persons or vehicles that are to remain operational during the lead hazard work.

5. Exterior lead hazard operations shall utilize mini-containments, drop cloths, wet methods, and HEPA vacuums as outlined in Cal/OSHA regulation 8 CCR Section 1532.1 and the HUD Guidelines, Chapter 8.

6. The Owner may evaluate the lead dust concentrations outside the work area on adjoining finishes during the work progress by collecting wipe samples to evaluate the integrity of the containment and to detect dust contamination.

7. Evaluation will review possible contamination resulting from:
   a. Failure to adequately cordon off or contain work area dusts, clean-up debris, and use approved work practices, such as wet wiping and HEPA vacuuming.
   b. Failure or breaches in the work area isolation containment.
c. Failure or rupture in the negative pressurization/HEPA filtration system.

d. Incomplete decontamination of personnel or equipment removed from the work area(s).

8. Perimeter wipe samples may be collected adjacent to each work area and compared to the pre-construction background concentrations. The Owner will analyze the wipe sample by flame atomic absorption per NIST Standard 1578.

9. The Contractor shall reclean adjoining occupied areas with surface concentrations exceeding background level or eight hundred micrograms per square foot (>800 µg/SF) during the construction activities. The Contractor shall bear the costs (including engineering, administrative, housekeeping, analytical and the labor and materials costs of the Owner’s consultant(s)) to return surface lead concentrations in elevated areas to acceptable levels.

3.3 ASBESTOS ABATEMENT PROCEDURES

A. Notifications:

1. Notify, in writing, the BAAQMD ten (10) working days prior to commencement of any non-emergency asbestos project involving more than one hundred linear feet (>100 LF) or more than one hundred square feet (>100 SF) of asbestos materials.

2. Notify Cal/OSHA twenty four (24) hours in advance of any disturbances of any amount of friable or non-friable asbestos-containing materials or prior to performing asbestos-related work.

B. Procedures:

1. Thermal System Insulation (TSI):

a. Remove TSI as indicated on the Contract Drawings using full isolation or glovebag procedures per Cal/OSHA Regulation 8 CCR 1529, Work Class I, minimum.

b. Glovebag cut-out procedures may be used for services scheduled for demolition, as applicable.

c. Use wet methods and HEPA vacuums, setting up critical barriers for quantities greater than 25 LF

d. Seal HVAC systems and install drop cloths below and over nearby objects.

e. Ventilate away from the workers, using a HEPA filtration system.

f. Provide a full decontamination system with shower for abatement quantities exceeding twenty five linear feet (>25 LF) or as otherwise directed by the Contract Documents.

g. HEPA vacuum the entire contained area prior to clearance air testing.

h. Glovebag abatement work, where applicable, requires two workers minimum and smoke testing of all bags prior to abatement.

i. Dispose of TSI in double goosenecked labeled bags or double wrap cut-out sections in 6-mil polyethylene sheeting and properly labeled as friable asbestos waste.

2. Vinyl Floor Tiles and Mastics:
a. Remove the flooring and mastics as indicated on the Contract Drawings using full isolation procedures, satisfying the requirements of Cal/OSHA Regulation 8 CCR 1529, Work Class II.

b. Set-up critical barriers and splash guards and establish negative pressurization.

c. Remove the tiles using wet methods to minimize breakage and airborne fiber releases.

d. Remove the mastic using a mastic remover.

e. HEPA vacuum the contained area following abatement for clearance; minimize use of encapsulant on substrates to be retiled.

f. Provide a full decontamination system with shower for areas exceeding twenty five square feet (>25 SF).

g. Dispose of tiles and mastic as Category 1 non-friable waste.

3. Asbestos Plasters and Sprayed-on Surfacing Materials:

a. Remove ACM as indicated on the Contract Drawings using full isolation or mini-containment procedures per Cal/OSHA Regulation 8 CCR 1529, Work Class I, minimum.

b. Use wet methods and HEPA vacuums.

c. Set-up critical barriers for quantities greater than twenty five square feet (>25 SF).

d. Seal HVAC systems and install drop cloths below and over nearby objects. Ventilate away from the workers, using a HEPA filtration system.

e. Provide a full decontamination system with shower for abatement quantities exceeding 25 LF or as otherwise directed by the Contract Documents.

f. HEPA vacuum the entire contained area prior to clearance air testing.

g. Dispose of ACM in double goosenecked bags properly labeled as friable asbestos waste.

4. Caulking:

a. Remove the caulking as indicated by the Contract Drawings.

b. Cordon off the work area, installing critical barriers at the windows, doors, and other penetrations, as applicable.

c. Remove ACM using wet methods per Cal/OSHA’s Regulation 8 CCR 1529, Work Class II.

d. Set-up drop cloths on the ground and nearby objects to contain falling materials on the ground or public access areas surrounding the work area.

e. HEPA vacuum the sills and frames following abatement.

f. Provide a full decontamination system with shower for areas exceeding 100 SF.

g. Dispose of caulking as Category 2 non-friable waste.
5. Trace Asbestos Materials (Except Sheetrock Wallboard and Joint Compounds with Skincoat):
   a. Remove composite materials as indicated on the Contract Drawings using full isolation or mini-containment procedures within occupied building per Cal/OSHA Regulation 8 CCR 1529, Work Class II.
   b. Use wet methods and HEPA vacuums, setting up critical barriers for occupied areas.
   c. Set-up critical barriers for occupied areas.
   d. For building demolition projects, cordon off the area and use dust control methods to minimize airborne fiber releases.
   e. HEPA vacuum the entire contained area prior to clearances for renovation projects.
   f. Dispose of composite materials as “trace” (less than one percent (<1%)) asbestos waste, unless otherwise contaminated with other asbestos or hazardous wastes.

6. Contaminated Non-Asbestos Materials:
   a. Remove contaminated non-ACM substrates or underlying ceiling tiles, etc.
   b. Use wet methods and HEPA-filtered vacuums to decontaminate, where feasible. Allow inspection of the decontaminated materials by the Owner's Environmental Consultant prior to removal from the work area.
   c. Contaminated waste shall be disposed in double goosenecked bags or burrito-wrapped as friable asbestos waste.
   d. Minimize excess waste quantities, where feasible.

7. Other: Remove and dispose in compliance with Cal/OSHA requirements under 8 CCR 1529 and AHERA requirements under 40 CFR Part 763.

C. Special Techniques and Procedures

1. Isolate HVAC system(s) to prevent contamination and fiber dispersal to other areas of the building.
   a. Openings to ducts, fans, louvers, and plenums shall be sealed with two layers of polyethylene sheeting prior to the start of removal.
   b. Provide caulked, rigid panels at the discretion of the Owner.
   c. Repair any damage to ductwork, grilles, dampers, louvers, or HVAC equipment at the completion of the abatement work.
   d. Secure systems and equipment using OSHA lock-out and tag-out procedures, as applicable.

2. Ensure that all electrical power terminating in the work area, including but not limited to outlets and lights are disconnected and cannot be reenergized during the course of the work.
a. Ensure that all power lines which transit the work area and are necessary for the continued operation of services in areas outside the work area are identified and protected adequately in order not to pose a hazard to workers during the course of work.

b. Provide temporary power and lighting, and ensure safe installation of temporary sources and equipment per applicable electrical code requirements, and provide safety lighting and ground fault interrupter circuits as power source of electrical equipment.

c. Secure systems and equipment using OSHA lock-out and tag-out procedures, as applicable.

3. Construct critical barriers and decontamination enclosure systems, as applicable. Erect polyethylene sheeting to protect walls, windows, flooring, and fixed equipment, as applicable.


a. Establish negative pressurization within all Asbestos Work Class 1 areas, exhausting air to the exterior, unless otherwise approved by the Owner.

b. Do not locate outlets near or adjacent to other building intake vents or louvers or at the entrances to the building.

c. Do not exhaust air into the building's interior spaces or within fifty (50) feet of the building's supply air intakes without on-site DOP testing of all NPUs to show a filter efficiency of ninety nine and ninety seven hundreds percent (99.97%) minimum.

d. Provide a minimum work area differential air pressure of twenty five hundredths inches water gauge (-0.025 inch w.g.) and four (4) air changes per hour at all times for Asbestos Work Class 1 areas or as otherwise designated by the Contract Documents.

5. Remove ACM employing full isolation, glovebag, and glovebag with mini-containment procedures as designated by material quantities and work class under Cal/OSHA regulation 8 CCR Section 1529.

a. Glovebag cut-out methods may be used for systems scheduled for demolition as outlined in the Demolition Plans.

b. Use wet cleaning methods, HEPA vacuuming, and proper work practices.

c. Mini-containments may not be required for glovebag TSI removal in unoccupied zones provided the bag is evacuated with a HEPA-filtered vacuum prior to the removal of the element being stripped or unless otherwise indicated in the Contract Documents. All areas requiring aggressive clearance air sampling will require mini-containments or full containments and pre-cleaning throughout the isolated area using HEPA vacuums and wet methods.

6. As applicable to abatement of surfacing materials and non-glovebag thermal system insulation removal projects or for other work completed within full isolation containments, remove visible accumulations of asbestos material, debris, and dust from within the work area and its decontamination enclosure systems. Clean all surfaces within the work area.

7. Where encapsulation is required, encapsulate following the Owner’s pre-encapsulation inspection.

8. Minimize encapsulating of sensitive abated areas or surfaces, such as vinyl floor from wood or concrete substrates, so as not to affect the adhesion of replacement materials.
9. After encapsulation:
   a. Remove the inner layer of polyethylene sheeting from the floor, walls, and other equipment.
   b. Dispose as asbestos waste, as applicable.
   c. Leave all critical barriers with one layer of polyethylene sheeting.

10. After removing the final layer of polyethylene sheeting (as appropriate):
   a. Final-clean all surfaces, including the inner surface of the outer layer of polyethylene that serves as a critical barrier, any subfloor trenches, and similar locations.
   b. Allow adequate time for settlement of dust, then repeat final cleaning operation.
   c. Clean and remove all materials and equipment within the work area, using the equipment decontamination enclosure system.

11. Exterior Asbestos Work Class II abatement operations shall utilize critical barriers, drop cloths, wet methods, and HEPA vacuums as outlined under Cal/OSHA regulation 8 CCR Section 1529.

D. Field Quality Control

1. Site Tests: Clearance Criteria
   a. Clearance air samples using aggressive air sampling techniques shall be collected for all abatement zones, unless otherwise designated in the Contract Documents.
   b. Phase Contrast Microscopy (PCM) Clearances: Areas cleared by PCM shall show an airborne concentration of total fibers for each sample at or below one hundredth fibers per cubic centimeter (≤0.01 f/cc) using the NIOSH 7400A counting rules. Any sample result exceeding one hundredth fibers per cubic centimeter (>0.01 f/cc) shall require recleaning of the work area and retesting. The Owner, based on the quantity and types of materials removed, configuration, and sequencing of the work areas, and similar considerations, shall determine the minimum number of samples.
   c. When transmission electron microscopy (TEM) clearances are required, as designated by the Contract Documents, analysis shall be by the method described in 40 CFR Part 763, Appendix A, Subpart E (AHERA), with an analysis turn-around time of twenty four (24) hours, unless otherwise designated by the Owner. Z-test requirements under the AHERA regulations will not apply to any Owner projects.
   d. The Owner shall pay the costs of the final round of visual inspections, aggressive air sampling, and PCM and/or TEM analyses that will meet the Specifications. All rounds of visual inspections, aggressive air sampling, and PCM and/or TEM analyses that fail to meet the contract criteria shall be borne by the Contractor. For the purpose of this paragraph, visual inspection includes the area isolation inspection, pre-encapsulation inspection, and final area cleanup inspection.

E. Waste Disposal and Manifesting:

1. Packing, labeling, transporting, and disposing of asbestos materials shall comply with Cal/EPA regulations under 22 CCR, including completion of the Uniform Hazardous Waste Manifest Form (DTSC 8022A, 7/92, and EPA 8700-22), and the requirements of “Waste Disposal and Manifesting,” discussed below.
3.4 LEAD ABATEMENT AND HAZARD CONTROL

A. Notifications: Cordon off active lead hazard and abatement zone(s) and post with warning signs at entries to regulated areas bearing the following information:

   Warning
   Lead Work Area
   Poison
   No Smoking or Eating
   Authorized Personnel Only

B. Procedures:

1. Abatement of lead-based paints and presumed lead-based paints as defined by HUD and as regulated under the California Department of Health Services’ Title 17, California Code of Regulations (CCR), Division 1, Chapter 8, “Accreditation, Certification, and Work Practices in Lead-Related Construction,” Article 1, Sections 35001 et al. and Article 16, Sections 36000 and 36100 shall:
   a. Include posting and delivery of notifications prior to conducting abatement, including:
      1) Completing DHS Form 8551 (12/97) and posting all entrances to the structure at least 5 days prior to conducting abatement. The posted form shall not be removed until abatement is completed and a clearance inspection has been conducted.
      2) Deliver of the completed DHS Form 8551 to the Department of Health Services, c/o Notification at the Childhood Lead Prevention Program Branch, 1515 Clay Street, Suite 1801, Oakland, CA 94612; fax: (510) 622-4939.
      3) Retain records of notification for at least three (3) years.
   b. Be conducted only by a Certified Lead Supervisor or a Certified Lead Worker. The Certified Lead Supervisor shall be on-site during all work site preparation and during the post-abatement clean-up of work areas. At all other times when abatement is conducted, the Certified Lead Supervisor shall be on-site or available by telephone, pager or answering service, and able to be present at the work area in no more than two (<2) hours.
   c. Be conducted using containment in a manner such as not to contaminate non-work areas with lead dust, soil, or paint debris.
   d. Be conducted in accordance with procedures specified in the HUD Guidelines, Chapters 11 and 12.

C. Loose and Peeling Paint:

1. Scrape loose and peeling paints using dust control procedures and procedures as outlined under Cal/OSHA Regulation 8 CCR 1532.1.

2. Characterize the waste for possible disposal as a hazardous waste.

D. Lead Paint Abatement:

1. Remove paints on structural steel components scheduled for welding or torching using a chemical stripper, needle gun or other approved methods as outlined in the approved Contractor’s Hazardous Materials Abatement and Control 02090 - 20
Materials Management Plan (HMMP). Note that spot abatement of structural steel components does not eliminate the possible need for respiratory protection and hazard controls by the welder or torcher under 8 CCR 1529 due to unabated residues or paints on back-to-back components, which can not be accessed for abatement.

2. Use drop cloths, polyethylene barriers, Hudson and airless sprayers and other methods as required for dust control.

3. Characterize and dispose of paints, rags, etc., separately for possible disposal as a hazardous waste.

E. Lead Dust Clean-up:

1. Clean-up background or construction-related dusts from demolition of lead-coated elements or other contaminant sources using wet methods and HEPA-filtered vacuums.

2. Do not dry sweep.

F. Lead Hazard Control:

1. Scrape loose and peeling paints and use dust controls for demolition of lead-coated architectural and structural elements as indicated by the Demolition Plans, following minimum procedures as outlined under Cal/OSHA Regulation 8 CCR 1532.1.

2. Remove and dispose of intact lead-coated architectural and structural elements as non-hazardous waste.

3. HEPA vacuum residual debris and wet wipe affected substrates as required for clearance inspection or testing.

G. Special Procedures and Techniques:

1. Cordon off the proximity (within approximately 20 feet) of Activity Class I work areas using construction tape, polyethylene dust barriers, or other appropriate means.
   a. Persons entering the regulated "cordoned" work area shall wear appropriate respiratory protection and full body coveralls.
   b. Affix appropriate warning signs at the entry and approaches to the regulated area(s).

2. Lockout electrical and HVAC equipment within the regulated area as necessary.

3. Protect floors, furnishings, landscaping, and other items with polyethylene drop cloths or other acceptable means to prevent contamination or damage to other building surfaces and finishes.

4. Apply chemical strippers and scrape following the manufacturer's recommended procedures. After scraping, remove remaining loose paint with a HEPA vacuum.

5. Maintain work area surfaces as free as practicable from accumulated dust or debris. Clean equipment, tools and containment structures within regulated areas, at a minimum, with HEPA vacuums or wet methods.

6. Conduct operations to prevent injury to adjoining facilities, persons, motor vehicles, and other items as applicable.
a. Prevent chemical cleaning agents from coming into contact with pedestrians, motor vehicles, landscaping, buildings, and other items and other surfaces that could be injured or damaged by such contact.

b. Do not spray or scrape outdoors during winds of sufficient force to spread cleaning agents to unprotected surfaces.

7. For areas where removal of loose and peeling paints only are required, the Contractor shall ensure that the paint that remains on walls, ceilings, eaves, and other surfaces in areas of active work, as applicable, shall be adhered to the substrate sufficiently to support eventual repainting. Paints that peel or loosen during wetting will become part of the scope of work scheduled for removal and disposal.

8. Where complete removal of lead coats is required, finished work shall show no signs of stains, scratches, streaks, or runs of discoloration from use of cleaners.

   a. Leave substrate surfaces neat and clean, including removal of primers in addition to finish coats. Surfaces shall be uniformly cleaned.

   b. Neutralize substrate using a TSP and detergent wash.

9. Where mechanical sanding or removal of lead-based paints is required, the Contractor shall fully contain the work area, establish negative pressurization of the contained zone, and attach HEPA-filtration devices to all mechanical tools. Upgrades in respiratory protection shall be provided as required under 8 CCR 1532.1.

10. Avoid direct welding or cutting on surfaces containing lead in concentrations greater than 0.64 micrograms/cm² by mechanically or chemically removing the coating to a distance of at least six inches from the point at which heat is applied.

    a. If surface coatings are not removed prior to welding or cutting, provide local exhaust ventilation to capture the aerosolized lead, using HEPA filters.

    b. If surface coatings are not removed prior to torching or welding, provide upgraded welder’s respiratory protection in compliance with Cal/OSHA regulation 8 CCR 1532.1.

11. Where mechanical removal of surface coatings constitutes a Level II activity, provide power tools, to the extent feasible, with local HEPA exhaust or dust collector systems to capture the aerosolized lead.

H. Demolition Procedures:

1. Removal of obstructing materials as needed for access to hazardous materials.

2. Removal of obstructing materials where hazardous materials contamination is known to exist.

3. Removal of obstructing materials where hazardous materials exposure is likely to result.

4. Follow, at the minimum, the protective procedures as outlined in Cal/OSHA regulation 8 CCR 1532.1.

5. Protection of Visitors and Other Site Personnel: Cordon off the abatement area(s) with appropriate signs, and provide temporary tunneling or scaffolding, as applicable.

I. Prohibited Activities:

1. Workers shall decontaminate themselves and appropriate equipment prior to eating, drinking and smoking.

2. Clean debris and surfaces with HEPA-filtered vacuums or wet methods.

3. Shoveling, wet sweeping, and brushing may be used only where vacuuming or other equally effective methods have been tried and are found to be ineffective.

J. Field Quality Control

1. Site Test: Monitoring and Clearance by the Owner:
   a. During lead hazard-related work, such as demolition, refinishing, or torching and welding activities, the Owner may collect air samples for analysis by flame atomic absorption.
   b. Air sampling results in excess of the Cal/OSHA "Project Action Level" of thirty micrograms per cubic meter (30 µg/m³) within the construction zone may require isolation of the work area, upgrades in the required respiratory protection, amendment of work procedures, and/or clean-up of the affected area.
   c. Air sampling results in excess of the EPA's National Ambient Air Quality Standard (NAAQS) of one and one-half micrograms per cubic meter (1.5 µg/m³) at the site's property line or at adjoining occupied non-construction areas may require isolation of the work area, amendment of work procedures, and clean-up of the affected area.
   d. Resampling of the contaminated areas and handling, shipping, and analysis charges (including the Owner's time and expenses) for additional sampling required to show background levels below these lead standards shall be borne by the Contractor.

K. Clearance Criteria -- Lead Abatement Zones:

1. The lead abatement zone shall remain secured until cleared by the Owner.

2. Visual Inspection:
   a. When the Contractor considers the work or a designated portion of the work to be complete, the Contractor shall notify the Owner's Project Manager that the work is ready for abatement zone clearance inspection.
   b. Within a reasonable time after receiving notification from the Contractor, the Owner will perform a visual inspection of the work area.
   c. Evidence of lead contamination identified during the inspection will necessitate further cleaning as specified herein.

3. Wipe Sample Clearance Criteria: The Contractor shall reclean the area if surface concentrations exceed the following "EPA Clearance Dust Standards:"
4. Air Sample Clearance: Where lead hazard abatement occur concurrent with asbestos abatement activities, the area may be cleared by aggressive air sampling, where airborne lead concentrations following the final visual inspection shall not exceed the EPA’s NAAQS standard of one and one-half micrograms per cubic meter (1.5 µg/m³) as analyzed by NIOSH method 7082 (flame atomic absorption) or 7105 (graphite furnace atomic absorption).

5. Resampling of the contaminated areas and handling, shipping, analysis charges (including the Owner’s time and expenses) for additional sampling required to show background levels below these lead standards shall be borne by the Contractor.

L. Waste Disposal and Manifesting:

1. Comply with current federal, State and local regulations concerning the waste handling, containerization, transportation, and disposal of lead-based paint or lead-contaminated materials as discussed under “Waste Disposal and Manifesting” below.

2. Loose debris and scraped materials shall be treated as hazardous waste, unless otherwise approved by the Owner. Construction waste coated with intact LBP may be disposed of as construction debris in accordance with the Cal/EPA requirements.

3. Laboratory costs associated with analyses required for disposal, if required, shall be at the Contractor's expense.

4. Segregate, containerize, and characterize construction debris including rags, protective coveralls, polyethylene sheeting, and other consumable items. Waste shall be packaged in accordance with the applicable U. S. Department of Transportation regulations included in 49 CFR Parts 173, 178 and 179.

5. Profile waste with an approved landfill or incinerator by means of standard digestion and extraction tests (TCLP, WET, and SW846), as appropriate. Use the facility's EPA Generator I.D. number on the "Waste Manifest." See additional requirements specified below in Article titled "Manifesting."

6. If debris is to be recycled, provide a bill of lading and a memorandum from the recycler acknowledging that lead may be present and work activities and disposal will comply with applicable regulations. Submit in accordance with procedures of Section 01300 - Submittals.

3.5 WASTE DISPOSAL AND MANIFESTING

A. Hazardous Waste Disposal:

1. Packing, labeling, transporting, and disposing of hazardous waste shall comply with Cal/EPA regulations under 22 CCR, including completion of the Uniform Hazardous Waste Manifest Form (DTSC 8022A and EPA 8700-22). Waste and glovebags shall be properly labeled prior to their removal from the contained or regulated area, including all required asbestos warning labels.

2. Waste dumpsters shall be placarded, sealed, and locked overnight. Waste containers shall be stored to prevent public access or disturbances.
3. A "Waste Manifest" shall be completed for disposal of hazardous waste. The transporter shall possess a valid EPA Transporter I.D. number. The Contractor shall notify the Owner’s Project Manager at least forty-eight (48) hours prior to the time that the Manifest is required to be signed by the Owner.

4. Applicable information to be included in the "Waste Manifest" includes the following:
   a. EPA Generator I.D. Number: Verify with the Project Manager.
   b. Generator's Name and Address: Verify with the Owner's Project Manager.
   c. Generator Tax I.D. Number: Verify with the Owner’s Project Manager.

3.6 FINAL PROJECT CLEAN-UP AND REOCCUPANCY CLEARANCE CRITERIA

A. Lead:

1. Final Reoccupancy Cleaning:
   a. Final clean-up prior to Owner reoccupancy shall include wet wiping using a TSP solution and HEPA vacuuming all suspect dust and debris areas.
   b. Areas that do not comply with the “Final Reoccupancy Clearance Criteria” shall continue to be cleaned by and at the Contractor's expense until the specified criteria is achieved, as evidenced by results of inspections as previously specified.

END OF SECTION 02090
ADDENDUM No.: 2
Bid No.: 10-11/34 Laney Tower Modernization
(Project # 2389)

Item 13: Hazmat Environmental Plans, 03/24/09 (18 pages)
LEGEND:
(+) = ASBESTOS-CONTAINING MATERIAL (ACM)
(-) = NON ASBESTOS MATERIAL (NON-ACM)
(TR) = TRACE (<1%) ASBESTOS

Ground Floor-Lovery Source Issues:
1. Strip and clean brick/concrete floor
2. Replace Elevator flooring
3. Replace missing floor tile
4. Look into doors and passageways
5. Replace, restore or clean up exposed asbestos
6. Eliminate or contain it
7. Remove or relocate materials to prevent
8. Remove or relocate materials to prevent
9. Provide better occupant protection
10. Clean and fix mailboxes
11. Paint walls that were previously painted. Add more color
12. Paint elevator doors and facades and add color and lighting
13. Clean out and advise use of phone room (winding, garbage, bulletin, etc)
14. Provide information about risk
15. Replace floor and recycling bins
16. Revive mail room to make it more accessible
17. Add seating/bench areas
18. Add decorations or sculptures
19. Add art to walls
20. Revise signage:
   Door numbering and door entry signage
   Emergency evacuation signage
   Directional signs

EXISTING FIRST FLOOR PLAN
Scopes issues for the Second Floor:

1. New common area and exit flooring
2. New energy-efficient lighting
3. Paint walls and doors
4. Paint elevator doors and jamb and add color?
5. New window blinds and window coverings
6. New and leaseable bulkheads
7. New bathroom fixtures and lighting
8. New plumbing HVAC
9. Provide new for recycling bin
10. Review base issues, integral/steel base or rubber?
11. Repair and paint rusting smoke tower doors and frames?
12. New Signage:
   - Door number, etc.
   - Door signage
   - Emergency evacuation signage
13. Replace non-compliant drinking fountain and add seats/benches.

LEGEND:

(*) = ASBESTOS-CONTAINING MATERIAL (ACM)
(-) = NON-ASBESTOS MATERIAL (NON-ACM)
(TR) = TRACE (<1%) ASBESTOS
Scope issues for the Fifth Floor:

1. New corridor area and office flooring
2. New energy efficient lighting
3. Paint walls and doors
4. Paint elevator doors and basins and ail and cells
5. New window film and window coverings
6. New and fewer bulletin boards
7. New bathroom fans and lighting
8. Clean and update HVAC
9. Provide area for recycling bin
10. Review floor issues, integral wall base or cubicle?
11. Replace and paint rusting outbreak tower doors and frames.
12. New Signage:
   Door numbering and door jambs signing
   Emergency evacuation signage
13. Logistic renumbering frames.
14. Add tide barriers to compliant drinking fountain.
15. Varsity adherence of large end more and lounge.
16. Clean-up setting at the tile corner panel

LEGEND:
(+) = ASBESTOS-CONTAINING MATERIAL (ACM)
(-) = NON ASBESTOS MATERIAL (NON-ACM)
(TR) = TRACE (<1%) ASBESTOS

EXISTING FIFTH FLOOR PLAN
LEGEND:

(+)  = ASBESTOS-CONTAINING MATERIAL (ACM)
(-)  = NON ASBESTOS MATERIAL (NON-ACM)
(TR) = TRACE (<1%) ASBESTOS
Steps Issues for the Eighth Floor:

1. New common area and office flooring
2. New energy efficient lighting
3. Plate walls and doors
4. Paint elevator doors and panels and add color
5. New window sill and storm windows
6. New and fewer public restrooms
7. New bathroom ventilation
8. Change of all HVAC
9. Paint area for recycling bins
10. Review base mixes, integral wall mixes or not?
11. Repair and painting existing lower doors and frames.
12. New Signage:
   Door numbering and door jambs signage
   Emergency evacuation signage
13. Reconfigure restrooms for accessibility compliance.
14. Replace non-compliant drain hangers and solid side barriers.
15. Consider special finishes for President's Office and restrooms.

LEGEND:
(+) = ASBESTOS-CONTAINING MATERIAL (ACM)
(-) = NON-ASBESTOS MATERIAL (NON-ACM)
(TR) = TRACE (<1%) ASBESTOS

EXISTING EIGHTH FLOOR PLAN
Ground Floor Lobby Scope Issues:

1. Strip and clean basaltine/tile floor
2. Replace elevator flooring
3. Replace missing floor grates
4. Link into door trim
5. Remove, replace or clean up exposed conduits
6. Relocate or remove existing machines
7. Relocate or replace bulkhead boards
8. Replace lighting
9. Provide better acoustical treatment
10. Clean and ID mailboxes
11. Paint walls that were previously painted. Add more color?
12. Paint elevator doors and jamb and add color and lighting?
13. Clean out and revise use at phone room (wedding, gallega, bullock, etc)
14. New information desk/booth
15. Relocate trash and recycling bins
16. Revise mail room door to mesh in mailboxes?
17. Oak doors and marble Finish don't match
18. Add seating/plan areas
19. Add sculpture or scultpures
20. Add art at some walls
21. Revise signage:
   Door numbering and door (with signage)
   Emergency evacuation signage
   Directional signage

LEGEND:
(+)= HUD-DEFINED LEAD-BASED PAINT (LBP)
(-)= LEAD-CONTAINING PAINT (LCP)
Scope issues for the Second Floor:

1. New common area and office flooring
2. New emergency egress lighting
3. Paint walls and doors
4. Paint elevator doors and jamb and add color?
5. New window film and window coverings
6. New and lower finishes in areas
7. New restroom finishes / lighting
8. Check Update HVAC
9. Frangible area for testing fan
10. Review base plates, integral wall base or other?
11. Repair and paint existing smoke cover doors and frames.
12. New signage:
   - Door numbering and door plate signage
   - Emergency egress signage
13. Replace non-compliant drinking fountain and add side barriers.
LEGEND:

(*) = HUD-DEFINED LEAD-BASED PAINT (LBP)
(-) = LEAD-CONTAINING PAINT (LCP)
Stage issues for the Fourth Floor:
1. New common areas and office flooring
2. New entry/exit lighting
3. Paint walls and doors
4. Paint elevator doors and jambs and add taxi
5. New window film and window coverings
6. New and lower substrate boards
7. New bathroom fixtures lighting
8. Class A1 or better
9. Provide area for recycling bin
10. Review base issues. Integral wall base or rubber?
11. Replace and paint cutting metal lower doors and frames.
12. Door signage:
   - Door signage
   - Door signage for accessibility compliance
13. Remove paint restorations for accessibility compliance
14. Replace non-compliant window fumigation and assist doors
15. Verify efficiency of doors and windows

LEGEND:
(+) = HUD-DEFINED LEAD-BASED PAINT (LBP)
(-) = LEAD-CONTAINING PAINT (LCP)
Scope issues for the Fifth Floor:

1. New common area and office flooring
2. New energy-efficient lighting
3. Paint walls and doors
4. Paint door and window trim and roller shade
5. New window film and window coverings
6. New and linear bulletin boards
7. New bathroom fixtures and lighting
8. Clean-up existing HVAC
9. Provide areas for recycling bins
10. Review lease terms. Integrate walk-in closets
11. Repair and paint existing smoke tower doors and frames
12. New Signage:
   Door numbering and door jambs
   Emergency evacuation signage
13. Locate new resource lists
14. Add side entry to complete existing features
15. Verify efficiency of large doors and frames
16. Clean-up wiring at the telephone panel

LEGEND:
(+)
= HUD-DEFINED LEAD-BASED PAINT (LBP)
(-)
= LEAD-CONTAINING PAINT (LCP)
Scope issues for the Sixth Floor:

1. New common area and office flooring
2. New energy-efficient lighting
3. Paint walls and doors
4. Paint elevator doors and jambs and addardin
5. New window film or window coverings
6. New and lower bulletin boards
7. New bathroom brasses/fixtures
8. Clean/strip rugs
9. Provide area for recycling bin
10. Review base issues. Integral wall base or rubber?
11. Repair and paint existing smoke barrier doors and frames.
12. New Signage:
   - Door numbering and door jambs signage
   - Emergency evacuation signage
13. Replace non-compliant parking location and side barriers.
14. Verify efficiency of large and small exits.
15. Mitigate accessibility issues at entry to 602, 601 and Women's Room.
16. Clean-up any remaining issues at suitable risk.

Legend:

+ = HUD-DEFINED LEAD-BASED PAINT (LBP)
- = LEAD-CONTAINING PAINT (LCP)

EXISTING SIXTH FLOOR PLAN
Scope Issues for the Eighth Floor:
1. New common area and office flooring
2. New energy efficient lighting
3. Paint walls and doors
4. Paint elevator doors and columns and wall paneling
5. New window sills and wall coverings
6. New and swath bulletin boards
7. New bathrooms (faucets/lighting)
8. Relocate mailboxes
9. Provide area for recycling bins
10. Review base issues, if present, wall base or rubber?
11. Repaint at auction Perchlorate: floors and boardroom
12. New Signage:
   - Door numbering and door signal signage
   - Emergency evacuation signage
13. Relocate entries for assembly compliance
14. Replace non-compliant doors with new and side barriers
15. Consider special finishes for President's office and entries?

LEGEND:
(*) = HUD-DEFINED LEAD-BASED PAINT (LBP)
(-) = LEAD-CONTAINING PAINT (LCP)

EXISTING EIGHTH FLOOR PLAN

SCALE 1/100