**MEGAN M. GREVE** 

Director MMGreve@solanocounty.com (707) 784-7902

**DUSTIN D. LENO, MBA, A.A.E.** 

Assistant Director DDLeno@solanocounty.com (707) 784-2781

#### DEPARTMENT OF GENERAL SERVICES

Capital Projects Management Division



MARK A. HUMMEL, AIA Capital Projects Manager MAHummel@SolanoCounty.com (707) 784-7908

675 Texas Street, Suite 2500 Fairfield, CA 94533-6342 707-784-7900 www.solanocounty.com

DATE: April 07, 2022

TO: All Interest Bidders

SUBJECT: Addendum 01

RFI and Additional Documents to be Included to Contract Documents for:

6507 District Attorney (DA) Toxicology Expansion Project at 2201 Courage Drive

This ADDENDUM shall be considered part of the bid documents for the above-mentioned projects as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original bid documents, this ADDENDUM shall govern and take precedence.

Bidders are notified that they shall make **any** necessary adjustment(s) in their estimates on account of this ADDENDUM. It will be construed that each bidders' proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

The clarifications and/or additions and/or deletions that are described in this ADDENDUM shall be included in the Specifications and/or Drawings.

The Responses made to Written Comments reflect inquiries received as of Monday, March 28, 2022. In general, the County **does not** modify inquiries received from Contractors. The inquiries are presented exactly as submitted where possible, with the exception that the County has removed any specific firm or individual name references included in the inquiry.

This ADDENDUM supersedes the original VOLUME 1 – BIDDING REQUIREMENTS; VOLUME 2 – BIDDER PROPOSAL; VOLUME 3 – GENERAL CONTRACT REQUIREMENTS; and VOLUME 4 – PROJECT SPECIFIC INFORMATION dated 3/11/2022 (INCL. PLANS AND TECHNICAL SPECS dated 04/05/2022 and 01/28/2022), where it contradicts them; all other conditions remain unchanged.

The bid date has been extended; bids are due by 2:00 PM local time, April 14, 2022 at the Solano County General Services Department, Capital Projects Management Division, 675 Texas Street, Suite 2500, Fairfield, California 94533.

Acknowledgment of receipt of this ADDENDUM is required on the Bid Form. The Acknowledgment Form is included in the VOLUME 2 – BIDDER PROPOSAL, Section 00 41 00 – BID FORM, page 1.

#### **ADDENDUM NO. 1**

Addendum No. 1 is being issued to the Contract Bid Documents for the above referenced project.

PART A - LIST OF QUESTIONS AND ANSWERS of items compiled as of Monday, March 28, 2022

PART B - COUNTY CLARIFICATIONS/REVISIONS TO SPECIFICATIONS/ DRAWINGS and.

PART C - LIST OF ADDITIONAL DOCUMENTS

#### PART A – LIST OF QUESTIONS AND ANSWERS

#### Inquiry 01

Is it possible for Solano County to furnish a Bid Bond form where the Bid Bond is representative of 10% of our Base Bid Amount that we submit for the entire bid?

#### Clarification/Response:

Contractors must use the bid form provided without alteration.

#### **Inquiry 02**

Can all documents, other than the Bid Form, be signed by an authorized signatory?

#### Clarification/Response:

Yes

#### **Inquiry 03**

The Drawings shoe a new VAV box & Reheat Coil. Please provide specifications for Controls Manufacture.

#### Clarification/Response:

The existing control system is Johnson Metasys. New controls points shall be added to the existing system.

#### **Inquiry 04**

Please clarify if building was built with Post Tension Cable.

#### Clarification/Response:

The building is not post-tensioned slabs. The 2<sup>nd</sup> floor is a composite deck slab (2" deck with 3-1/4" lightweight concrete fill reinforced with 6x6 wire mesh).

#### PART B - COUNTY CLARIFICATIONS/REVISIONS TO SPECIFICATIONS/ DRAWINGS

#### Clarification 01

#### **Mandatory Pre-Bid Sign-In Sheets**

See Attachment A for Mandatory Pre-Bid Sign-In Sheets.

#### Clarification 02

#### **Mandatory Pre-Bid Conference Meeting Agenda**

See Attachment B for Mandatory Pre-Bid Conference Agenda.

#### **VOLUME 1 – BIDDING REQUIREMENTS**

#### Clarification 03

**Revisions:** 

#### Volume 1, Section 00 11 00 - Notice to Bidders, V.

 Sealed bid will be accepted until 2:00pm, local time, April 14, 2022, at the Solano County General Services Department, Capital Projects Management Division, 675 Texas Street, Suite 2500, Fairfield, California 94533. Proposals received after 2:00pm will not be considered responsive and will be returned to bidder unopened. Telephone and fax bids will not be accepted.

#### Volume 1, Section 00 21 00 - Instructions to Bidders, 1.05, C.

Bids will be accepted until 2:00 PM local time on April 14, 2022, shall be addressed and delivered to:
 ATTN: Donny Mandrell, Project Coordinator
 Solano County Department of General Services
 Capital Project Management Division

675 Texas Street, Suite 2500 Fairfield, CA 94533

#### **VOLUME 4 – PROJECT SPECIFIC INFORMATION**

#### Clarification 04

**Revisions:** 

#### Section 01 11 00 – Summary of Work, 1.02, A.

Project Description: The project includes 170 gross sf of cold shell space 2nd floor space for expansion of DA's existing toxicology lab. New space improvements include walls, acoustical ceiling tiles, tie-in to mechanical system, compressed air line manifold, sink and casework, power and data outlets, lighting fixtures, flooring, painting, and minimal fire sprinkler. Minimal demolition includes select removal of wall (to create passage to new space). Minor accessibility improvements (e.g., securing mats, stairwell striping, handrail extensions, signage, etc.). Project scope and specifications have been prepared by County of Solano General Services and (Dewberry Architects, Inc.).

#### Clarification 05

Drawing Revisions

| SHEET | DETAIL     | CHANGE   |
|-------|------------|--|
| Cover | N/A        | - Added notes under Scope of Work  o FIRE SPRINKLER DRAWINGS SHALL BE SUBMITTED TO FAIRFIELD FIRE FOR REVIEW AND APPROVAL PRIOR TO FIRE SPRINKLER INSTALLATION o FINAL FIRE DISTRICT INSPECTION IS REQUIRED PRIOR TO FINAL BUILDING INSPECTION |
| G-003 | 3          | - Removed pictograms per plan check comments   |
| A-111 | A2         | <ul> <li>Added callout for (N) nitrogen generator location</li> <li>Removed standing casework and adjusted ADA turning space to be clear of (N) work benches</li> </ul>  |
| A-411 | C1, D5, D3 | <ul> <li>Omitted detail C1 for standing casework and updated related elevations</li> </ul>   |
| P-111 | P1         | <ul><li>Added (N) compressed air line connection</li><li>Added sheet specification of (N) manifold</li></ul>   |

#### PART C – LIST OF ADDITIONAL DOCUMENTS (ATTACHED AS PART OF THIS ADDENDUM)

- Attachment A Mandatory Pre-Bid Sign-in Sheets
- Attachment B Mandatory Pre-Bid Conference Agenda
- Attachment C Copy of entire drawing set, with sheets revised as described in the list of drawing revisions in this document.

(END OF ADDENDUM 1)

110county.com

JIN D. LENO ssistant Director ddleno@solanocounty.com (707) 784-7900

#### **DEPARTMENT OF GENERAL SERVICES**

Capital Projects Management Division



MARK A. HUMMEL, AIA Capital Projects Manager MAHummel@SolanoCounty.com (707) 784-7908

675 Texas Street, Suite 2500 Fairfield, CA 94533-6342 (707) 784-7908 Fax (707) 784-7912 www.solanocounty.com

**Project:** 

**District Attorney Forensic Expansion Project** 

2201 Courage Drive, 2<sup>nd</sup> Floor DA Suite, Fairfield, CA 94533

Date/Locations:

March 22, 2022 - 10am - 2201 Courage Drive

Page 1 of 2

#### **SIGN-IN SHEET**

| NAME & TITLE                        | COMPANY               | ADDRESS                                   | PHONE NO.                  | EMAIL   |
|-------------------------------------|-----------------------|---|----------------------------|---|
| Gilbert & Sherlyn Mar.<br>CEO + CFO | in Gireen Like Const. | 1201 Grea Cone<br>PKy H1213               | 503-957-<br>8313           | green le le Com castin                        |
| Knsty Muyer                         | PRIDE INCLUSTRES.     | Valleyo, CH 9450/<br>4924 43rd &          | 503-957-8316<br>916-282800 |   |
| John grotzan                        | (1000)                | McIellan ca                               |                            | grun grotjana procendus                       |
|                                     |                       | 7030 Prywood wy                           | 916                        | devek. Foulon a) pride industre<br>sebastian@ |
| Mike Russ<br>Jeff Carpenter         | Aro Builders          | 73 605                                    | 225-0375                   | Sacprobuilders, con                           |
|                                     |                       | 837 Arnold dr<br>Suite 220<br>martinez CA | (925)<br>500-3700          | jeff ecu-si. com                              |
| Project manager                     | Construction west     | 94553                                     |                            | 7 7 000                                       |
| Pavel Chermy                        | Pro-Ex Constauction   | 3223 L4JUNS PQ<br>R. CORDON CA<br>95742   | 916-970                    | pavel@proex constructe                        |

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DUSTIN D. LENO

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Project:

**District Attorney Forensic Expansion Project** 

2201 Courage Drive, 2nd Floor DA Suite, Fairfield, CA 94533

Date/Locations:

March 22, 2022 - 10am - 2201 Courage Drive

Page 2 of 2

#### **SIGN-IN SHEET**

| NAME & TITLE                        | COMPANY                       | ADDRESS                                       | PHONE NO.          | EMAIL                   |
|-------------------------------------|-------------------------------|---|--------------------|-------------------------|
| TAMARA CLARKE<br>PRINCIPAL          | DEWBERRY                      | 1700 CREEKCADE<br>OAKO DR. #280<br>BACRAMENTO | 914.239.<br>F277   | tclarke @ dewlerry, com |
| FUEN LEE                            | SUANO COULY                   | 675 TFX9 GT                                   | MA                 | MA                      |
| CPC SP.                             |                               |   |                    |                         |
| Randy Wampler<br>DA Forensce Lab    | Solano Co<br>DA Forens, c Las | 2201 Courage Dr<br>St 2119                    |                    |                         |
| Donny Mandrell<br>CPC               | Solano County                 | 675 texas SI                                  | 7900<br>760 734    | dmandrell@Kolanocounty  |
| JORJET POTIER SOLAND COUNTY GSD/COM | SOLAND COUNTY                 | 675 TEXAS ST,                                 | (707) 784-<br>7908 | MJPOTIEN @ SOLAND CULLY |

#### **MEGAN M. GREVE**

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#### **DEPARTMENT OF GENERAL SERVICES**

Capital Projects Management Division



MARK A. HUMMEL, AIA

Capital Projects Manager MAHummel@SolanoCounty.com (707) 784-7908

675 Texas Street, Suite 2500 Fairfield, CA 94533-6342 www.solanocounty.com

#### MANDATORY PRE-BID CONFERENCE

DA Forensic Expansion Project
2201 Courage Drive, 2<sup>nd</sup> Floor District Attorney
Fairfield, CA 94533

From: Donny Mandrell, Project Coordinator
Project: District Attorney Forensic Expansion

Meeting: Mandatory Pre-Bid Conference

Date/Locations: March 22, 2022, 10:00 AM, 2201 Courage Drive

#### 1) Introduction

- a) Sign-In Sheet to be posted to the County's website at <a href="www.solanocounty.com">www.solanocounty.com</a>. All bidding contractors are required to sign-in and attend building tour. <a href="PRINT CLEARLY!">PRINT CLEARLY!</a>
- b) County's Project Team

i) Owner: Solano County

ii) Architect of Record: Dewberry Architects Inc. – Tamara Clarke

iii) Project Coordinator: Solano County – Donny Mandrelliv) Building Use (Project): Solano County – Randall Wampler

- c) Lines of Communications during the bid period
  - i) Through Project Coordinator:
     Donny Mandrell, (707) 784-3463, dmandrell@solanocounty.com
- d) Project objective Expand existing forensic lab into 170sf of an existing shell space.
- e) Project Delivery: Informal Bidding
- 2) Review of Bidder Information

a) Bid Date/Time: April 12, 2022, 2:00pm (local time; bid opening to follow

immediately)

b) Requests for Information: March 28, 2022, 5:00pm

c) Addenda No later than April 7, 2022, 2:00pm

d) Est. Construction Cost: \$90,000

- c) Submittal of Bid (Sealed) Per Specifications Volume 2
  - i) Bid Form
  - ii) Bid Security: 10% Bid Bond, Certified or Cashier's Check
  - iii) Subcontractor's List
  - iv) Non-Collusion Declaration
  - v) Worker's Compensation Certification
  - vi) Statement of Experience
- 3) Bids are to be held 90 calendar days from bid date
- 4) Lowest responsible bidder will be determined based on lump sum base bid
- 5) Prevailing Wage with no union requirement
- 6) Project Overview
  - a) Summary of Work: To be performed by B License Contractor. The project includes 170 gross sf of cold shell space 2nd floor space for expansion of DA's existing toxicology lab. New space improvements include walls, acoustical ceiling tiles, tie-in to mechanical system, sink and casework, power and data outlets, lighting fixtures, flooring, painting, and minimal fire sprinkler. Minimal demolition includes select removal of wall (to create passage to new space). Minor accessibility improvements (e.g., securing mats, stairwell striping, handrail extensions, signage, etc.). Project scope and specifications have been prepared by County of Solano General Services and (Dewberry Architects, Inc.).
  - b) Project Schedule (Milestones)

| i)    | Est. Award Date                        | May 24, 2022               |
|-------|--|----------------------------|
| ii)   | Notice to Proceed                      | On or before May 26, 20222 |
| iii)  | Background Check Forms Due             | June 6, 2022               |
| iv)   | Complete Submittal Reviews             | June 17, 2022              |
| v)    | Complete Background Checks             | July 1, 2022               |
| vi)   | Construction (Mobilization) Start Date | July 7, 2022               |
| vii)  | Substantial Completion                 | August 31, 2022            |
| viii) | Final Completion                       | September 30, 2022         |
| ix)   | Warranty Period Expiration Date        | September 29, 2023         |

- c) Site Issues
  - i) Clarification of normal work hours: 8:00-5:00pm (M-F)
  - ii) Background Check Period

- (1) All contractors working inside the project side must undergo a background check which includes paperwork and a live-scan.
- (2) At minimum, the General Contractor and any subcontractors expected to start at the beginning of the project should start this process as soon as the Notice to Proceed is issued.
- (3) General Contractor will be responsible for including time for background checks for subcontractors in their scheduling to ensure project deadlines can be met.

#### iii) After Hours Work:

- (1) Fire sprinkler incl. testing and inspections: Off hours (M-F, 5pm 8am, or Saturday/Sunday)
- (2) After hours work will require coordination with Project Coordinator
- iv) Building and Site Access
  - (1) County issued badges are required for all contractors and need to be worn at all times.

    Badges will only be issued after a successful background check.
  - (2) All contractors will access the building through the side entry
  - (3) Movement of materials will happen during business hours. This includes material delivery, unloading and loading. If there is a need to move materials during off hours, coordination with the County Project Manager is required.
  - (4) In general, contractors should protect floors and walls in the path of travel where materials will be taken to and from the project site.
  - (5) Elevator
- v) Safety Building occupants and visiting public
- vi) Lay-down Areas:
  - (1) Within existing shell space
- vii) Parking:
  - (1) County to designate parking areas for contractors
- viii) Cleanup Daily
- 7) Additional Requirements:
  - a) The forensic lab adjacent to the project area will be occupied and running. Due to the nature of the work in this lab, any contractor access will require County staff escort. Contractor shall work with County Project Manager during scheduling to ensure escort can be provided when needed.
    - Demolition for new cased opening passthrough should be scheduled as far out as possible to ensure contractors have minimal access to the occupied section of the laboratory.

- 8) Document Review
  - a) A/E Project Overview
    - i) Design Intent
  - b) Owner's PM Overview
    - i) Building Permit Solano County Department of Resource Management, Building Division
      - (1) Permits pending
      - (2) County has paid permit fees, Contractor to pull permits, submit license number
      - (3) Coordination of Inspections by Contractor
    - ii) Fire Sprinkler Permit City of Fairfield Fire Department (Contractor to pay fees)
- 9) Review of General Conditions
  - a) Liquidated Damages: \$1,500 per calendar day.
  - b) Performance and Payment Bond: 100% performance and payment bond required.
  - e) Application for Payment
    - i) Format AIA G702
    - ii) Requirements of SB 854
      - (1) Registration of General Contractor and Subcontractors with Department of Industrial Relations (at time of bid submittal)
  - f) Coordination and Meetings: Regular progress meetings will be held weekly following issuance of the Notice to Proceed.
  - g) Temporary Facilities
    - i) Water, Sanitary Facilities
    - ii) Electrical Service / Power may need temporary permit
      - (1) Existing shell space does not have power
    - iii) Data and Telephone by Contractor
  - h) Safety:
    - i) Temporary measures with building occupied by staff and public
    - ii) Demolition and debris removal, housekeeping (Progress Cleaning by Contractor)
    - iii) Storage of materials in the building, scheduled delivery and transfers
    - iv) Protective equipment and measures
    - v) Air quality: dust and fume control (adhesives, paint, HVAC)
- 10) Questions and Answers

- a) Questions asked by bidders at Pre-Bid Conferences will be answered in an informal manner and will not be considered as part of the Contract Documents. The reply does not change the bid documents unless it is issued in an Addendum. Formal questions will be answered in an addendum. Substitutions to be submitted via Substitution Request Form included in Specification Book.
- 11) Site Inspections
- 12) Closing Remarks
  - a) Questions and answers from site inspection tour
  - b) Closing comments

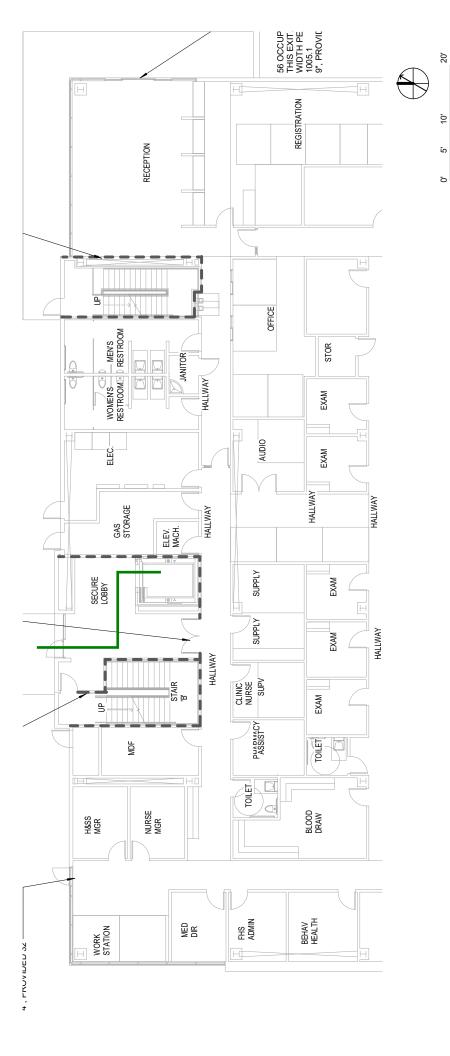
Note: The above information does not change the Contract Documents. Bidders must review and confirm the items discussed in the Bid Documents, Plans and Specifications.

**END OF MEETING** 

CONTRACTOR PARKING TBD

BUILDING ENTRY



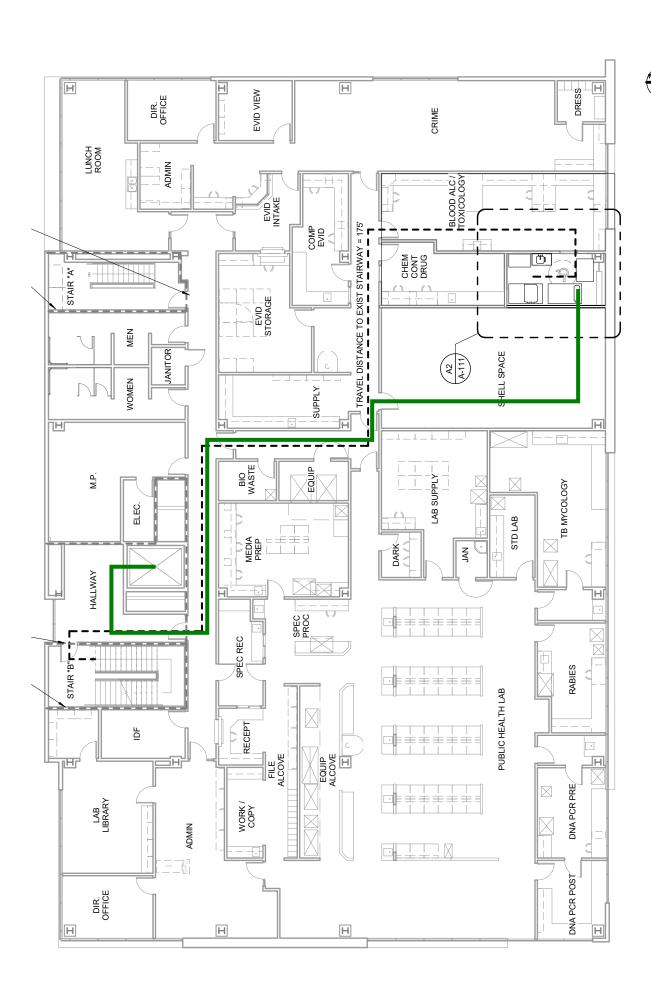


# PARTIAL FIRST FLOOR PLAN Scale: 3/32" = 1'-0"

20,

SCALE: 3/32" = 1' - 0"

0, 5, 10





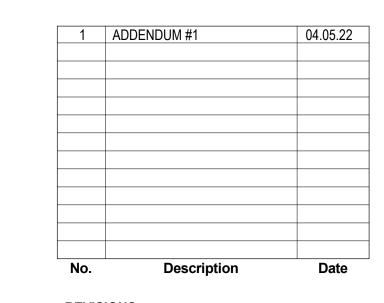
0' 5' 10' SCALE: 3/32" = 1' - 0"

# SOLANO COUNTY DA FORENSIC LAB TOXICOLOGY EXPANSION

2201 COURAGE DRIVE 2ND FLOOR DISTRICT ATTORNEY(DA) SUITE FAIRFIELD, CA 94533

# 100% CONSTRUCTION DOCUMENTS

APRIL 05, 2022



REVISIONS

| SHEET INDEX         |  |  |  |  |
|---------------------|--|--|--|--|
|                     | SHEET INDEX  |  |  |  |
| SHEET NO.           | SHEET NAME   |  |  |  |
| GENERAL             |  |  |  |  |
| G-001               | NOTES, SYMBOLS, AND OVERALL PLAN                   |  |  |  |
| G-002               | ACCESSIBILITY DIAGRAM                              |  |  |  |
| G-003               | ACCESSIBILITY UPGRADES                             |  |  |  |
| G-004               | ACCESSIBILITY UPGRADES                             |  |  |  |
| G-005               | ACCESSIBILITY UPGRADES                             |  |  |  |
| ARCHITECTU          | RAL  |  |  |  |
| A-111               | FLOOR PLANS, PARTITION DETAILS AND FINISH SCHEDULE |  |  |  |
| A-113               | REFLECTED CEILING PLAN AND CEILING DETAILS         |  |  |  |
| A-411               | LARGE SCALE ELEVATIONS AND FRAMING DETAILS         |  |  |  |
| MEQUANIQAI          |  |  |  |  |
| MECHANICAL<br>M-001 | HVAC LEGEND & NOTES                                |  |  |  |
| M-002               | HVAC SCHEDULE & DETAILS                            |  |  |  |
| M-111               | HVAC SCHEDOLE & DETAILS  HVAC FLOOR PLAN           |  |  |  |
| PLUMBING<br>P-001   | PLUMBING LEGEND, SCHEDULE & NOTES                  |  |  |  |
| P-111               | PLUMBING FLOOR PLAN                                |  |  |  |
| ELECTRICAL          |  |  |  |  |
| E-001               | SYMBOLS LIST, NOTES, SHEET INDEX                   |  |  |  |
| E-002               | TITLE 24   |  |  |  |
| E-003               | TITLE 24   |  |  |  |
| E-101A              | OVERALL SECOND FLOOR PLAN - ELECTRICAL             |  |  |  |

1. 170 SF TENANT IMPROVEMENT OF EXISTING SECOND FLOOR TOXICOLOGY LAB IN EXISTING TWO STOR PUBLIC HEALTH FORENSIC LAB BUILDING BY USING ADJACENT EXISTING SHELL SPACE.

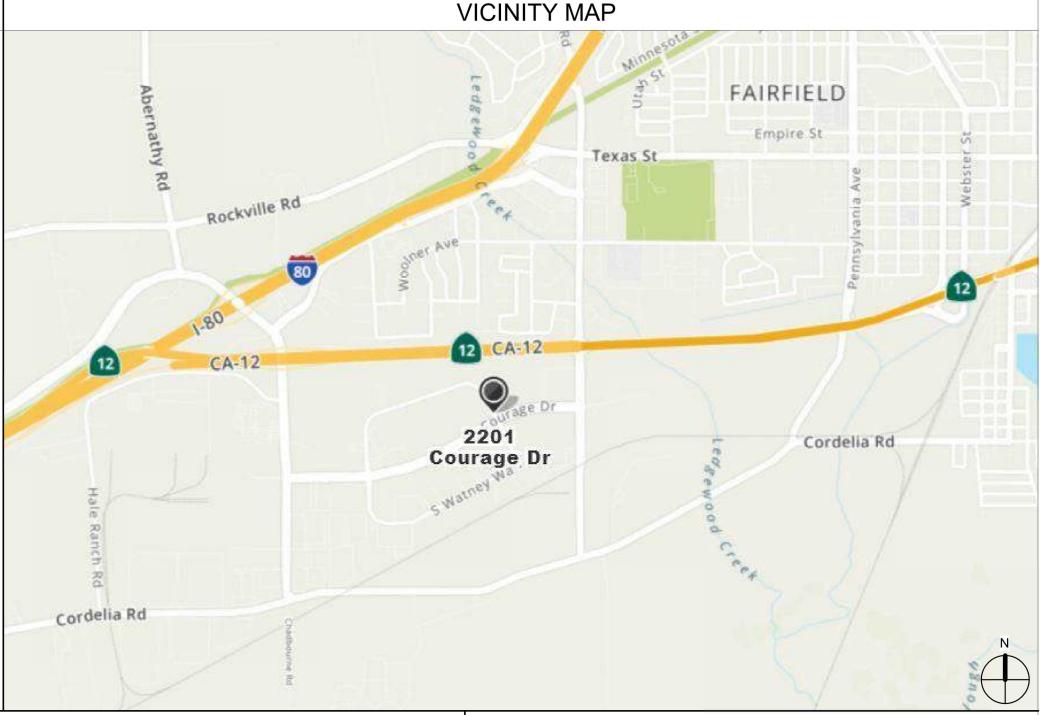
2. DEFERRED SUBMITTALS:

- FIRE PROTECTION / FIRE SPRINKLER AND FIRE ALARM EXPANSION TO TENANT IMPROVEMENT SPACE.

- FIRE SPRINKLER DRAWINGS SHALL BE SUBMITTED TO FAIRFIELD FIRE FOR REVIEW AND APPROVAL PRIOR TO FIRE SPRINKLER INSTALLATION.

- FINAL FIRE DISTRICT INSPECTION IS REQUIRED PRIOR TO FINAL BUILDING INSPECTION.

SCOPE OF WORK



#### **ARCHITECTURE**

E-300 DETAILS

DEWBERRY ARCHITECTS, INC.

E-101B OVERALL SECOND FLOOR PLAN - LIGHTING

E-101C OVERALL SECOND FLOOR PLAN - POWER AND SIGNAL E-200 PARTIAL ONE LINE DIAGRAM AND PANEL SCHEDULES

1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833

916.239.7254

# MECHANICAL, PLUMBING, AND FIRE PROTECTION

**CAPITAL ENGINEERING** 

11020 SUN CENTER DRIVE SUITE 100 RANCHO CORDOVA, CA 95670

855.331.7273

# **ELECTRICAL AND FIRE ALARM**

ECOM ENGINEERING

1796 TRIBUTE ROAD SUITE 100 SACRAMENTO, CA 95815

916.570.1570

#### PROJECT INFORMATION

SUMMARY: TWO STORY PUBLIC HEALTH CLINIC FORENSIC LAB

OCCUPANCY CLASSIFICATION: BUSINESS GROUP B (NO CHANGE TO EXISTING OCCUPANCY TYPE)

USE: FORENSIC LAB

BUILDING CONSTRUCTION TYPE: TYPE IIB (FULLY SPRINKLERED) PER CBC 2019

TOTAL PROJECT AREA: 170 S.F. TOTAL

SECOND FLOOR AREA: 15,459 G.S.F. 195 S.F. BUILDING PROJECTIONS

TOTAL BUILDING AREA: 30,985 G.S.F. TOTAL

#### OWNER INFORMATION

SOLANO COUNTY, DEPARTMENT OF GENERAL SERVICES, CAPITAL PROJECTS MANAGEMENT DIVISION

CONTACT: JORJET POTIER

CONTACT: JORJET POTIER 675 TEXAS STREET, SUITE 2500 FAIRFIELD, CA 94533

#### APPLICABLE CODES

TITLE 24 CCR, PART 2 - 2019 CALIFORNIA BUILDING CODE
TITLE 24 CCR, PART 4 - 2019 CALIFORNIA MECHANICAL CODE
TITLE 24 CCR, PART 5 - 2019 CALIFORNIA PLUMBING CODE

TITLE 24 CCR, PART 6 - 2019 CALIFORNIA ENERGY CODE

TITLE 24 CCR, PART 9 - 2019 CALIFORNIA EIRE CODE

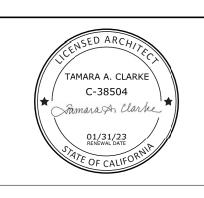
TITLE 24 CCR, PART 9 - 2019 CALIFORNIA FIRE CODE

TITLE 24 CCR, PART 11 - 2019 CALIFORNIA GREEN BUILDING STDS CC

TITLE 24 CCR, PART 11 - 2019 CALIFORNIA GREEN BUILDING STDS CODE
 TITLE 24 CCR, PART 12 - 2019 CALIFORNIA REFERENCED STANDARDS CODE

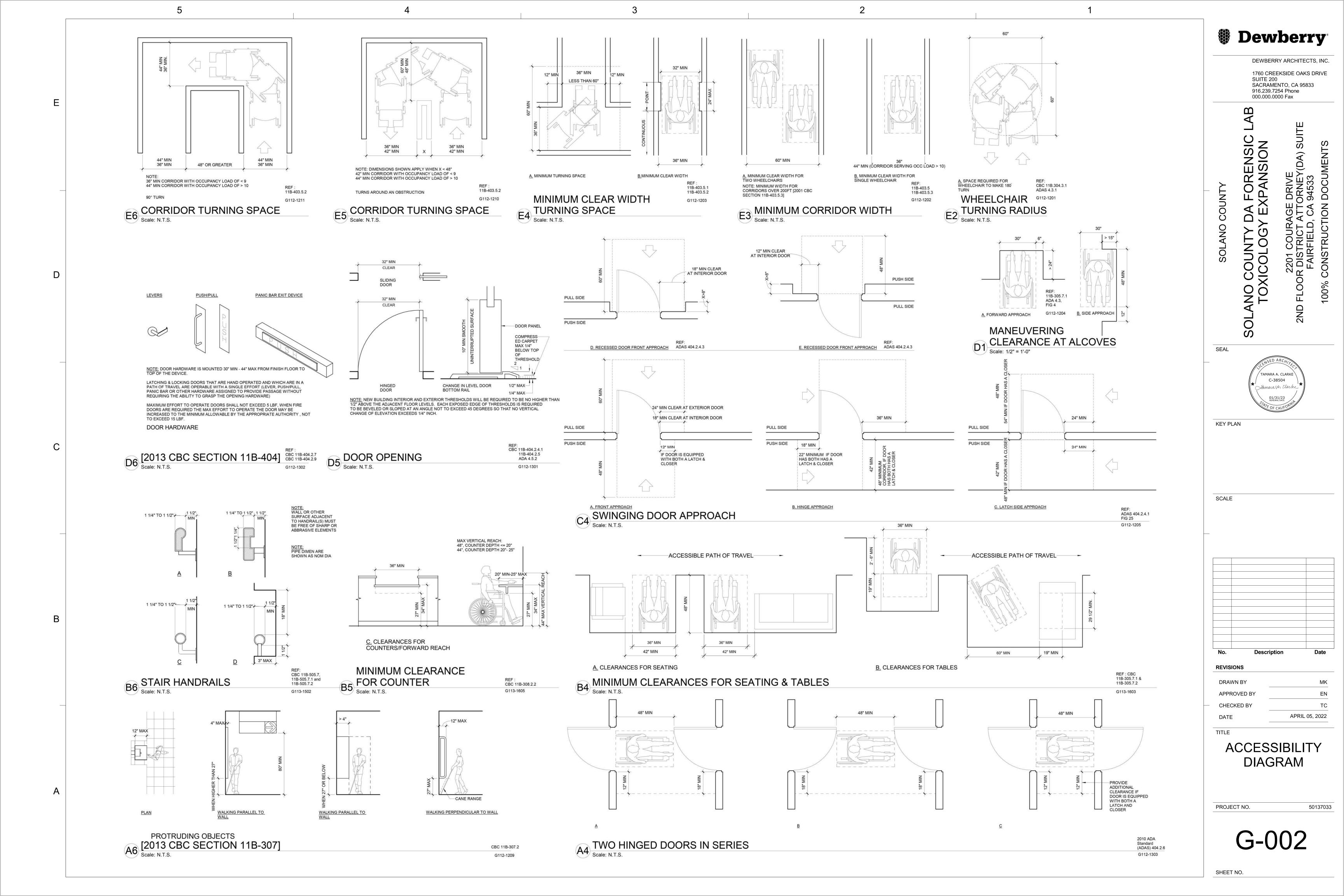
TITLE 24 CCR, PART 10 - 2019 CALIFORNIA EXISTING BUILDING CODE

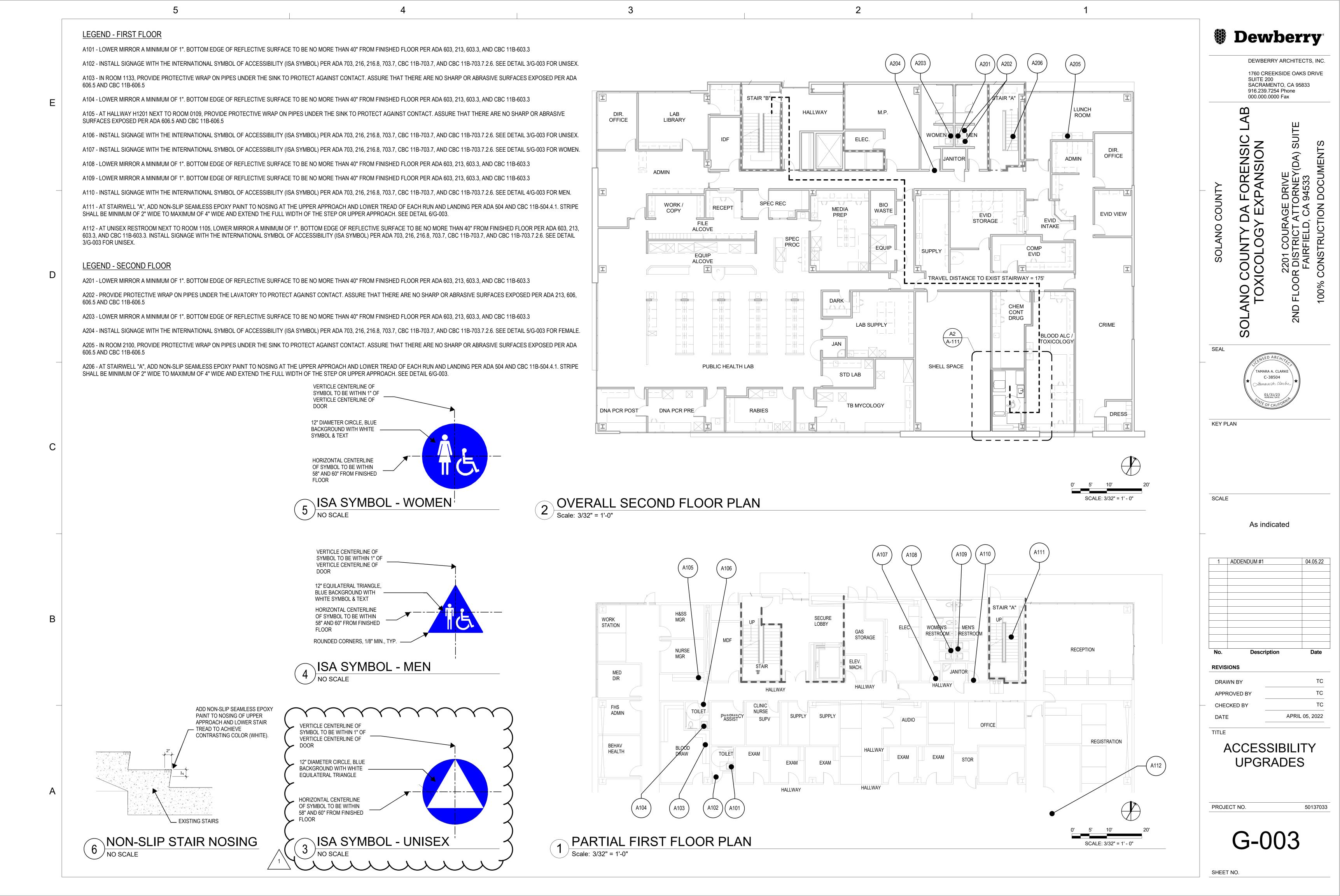
• 2010 AMERICANS WITH DISABILITIES ACT

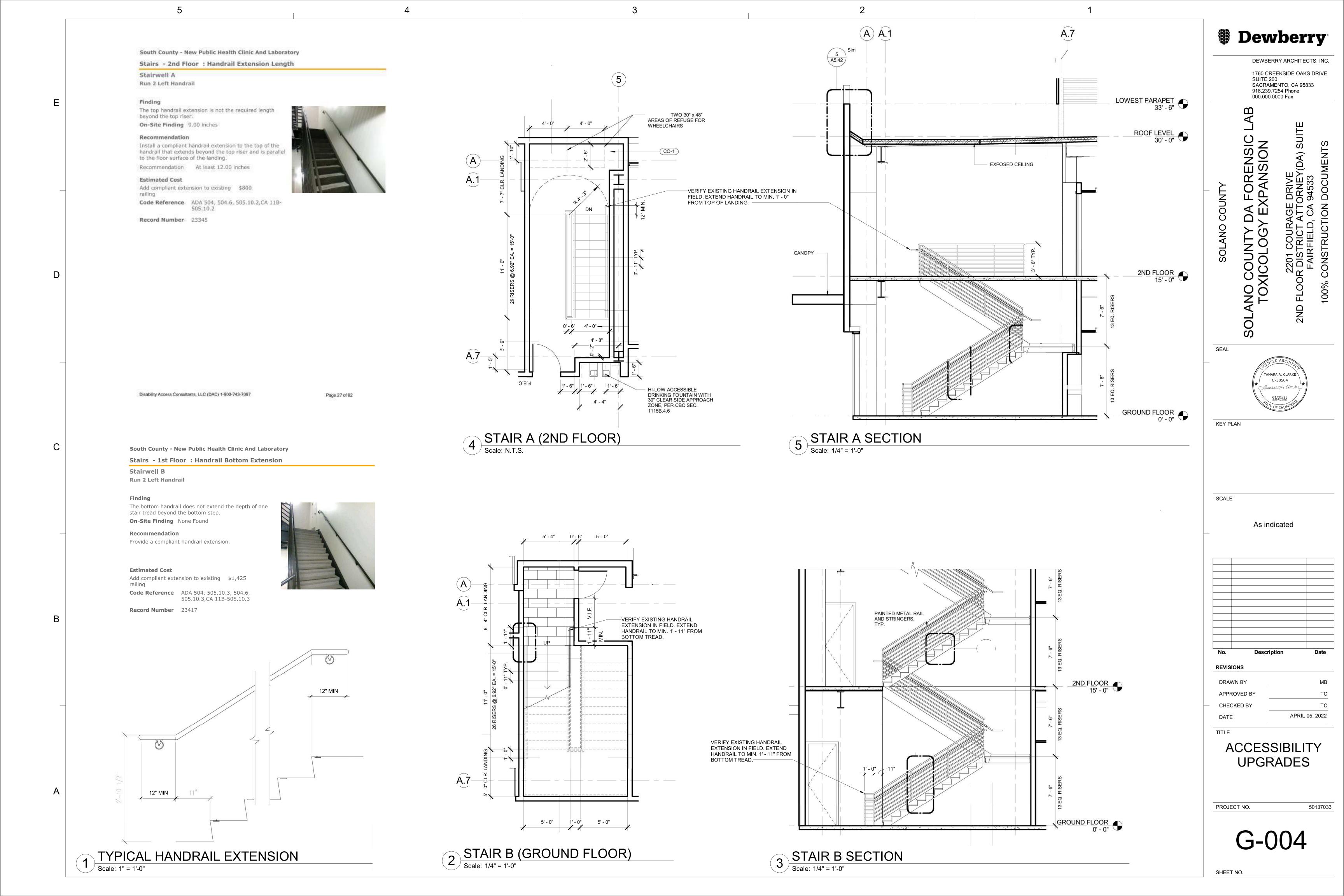












B101 - EXTERIOR, 1ST FLOOR - STAIRWELL A. SEE DETAILS 3, 4, AND 6/G-005. B102 - 1ST FLOOR, NORTH SIDE STAFF ENTRANCE. SEE DETAILS 3, 4, AND 6/G-005. B103 - 1ST FLOOR, NORTHWEST STAFF EXIT. SEE DETAILS 3, 4, AND 6/G-005.

B104 - 1ST FLOOR, HALLWAY DOOR NEXT TO ROOM 0105. SEE DETAILS 3, 5, AND 6/G-005.

B105 - 1ST FLOOR, HALLWAY DOOR NEXT TO ELEVATOR. SEE DETAILS 3, 5, AND 6/G-005.

B106 - 2ND FLOOR - STAIRWELL A. SEE DETAILS 3, 5, AND 6/G-005.

MATS - SECURELY FASTEN THE MATS OR CARPET RUNNERS OR REPLACE WITH A MAT OR CARPET RUNNER THAT GRIPS TO THE UNDERLYING FLOOR SURFACE TO PROVIDE A FIRM, STABLE, CONTINUOUS AND RELATIVELY SMOOTH PATH OF TRAVEL SURFACE. MATS OR CARPET RUNNERS ALONG THE PRIMARY PATH OF TRAVEL SHALL PROVIDE BEVELED EDGES ON ALL SIDES TO PREVENT ROLL OVER. (PER ADA 302, 302.2, CA 11B-403.2,302). SEE DETAIL 7/G-005. COMPLETE FOR FOLLOWING LOCATIONS:

B107 - MAIN ENTRANCE

B108 - MAIN LOBBY

B109 - NORTH SIDE STAFF ENTRANCE

B110 - NORTHWEST STAFF EXIT

DOOR OPENING PRESSURE - ADJUST DOOR CLOSER PRESSURE UP TO 5.00 POUNDS (PER ADA 404.2, CA 11B-404.2). COMPLETE FOR FOLLOWING LOCATIONS:

B111 - LOBBY DOOR NEXT TO ROOM 1158

B112 - ROOM 1104

B113 - WOMENS RESTROOM IN THE MAIN LOBBY B114 - HALLWAY DOOR NEXT TO ROOM 0105

B115 - UNISEX STAFF RESTROOM NEXT TO ROOM 1135 B116 - ROOM 2100

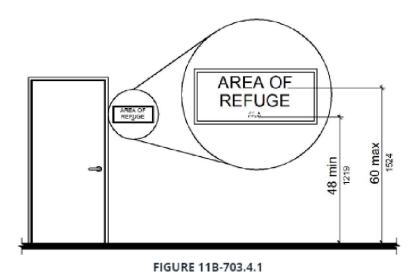
B117 - MENS RESTROOM NEXT TO ROOM 2100

B118 - WOMENS RESTROOM NEXT TO ROOM 2100

11B-703.4.1 Height Above Finish Floor or Ground

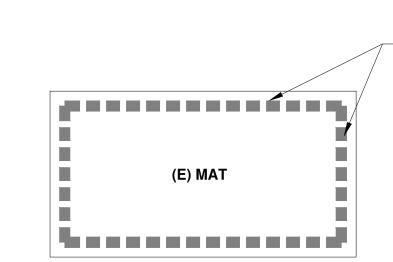
Tactile characters on signs shall be located 48 inches (1219 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest Braille cells and 60 inches (1524 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest line of raised characters.

**Exception:** Tactile characters for elevator car controls shall not be required to comply with Section 11B-703.4.1.



HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

6 SCALE: NOT TO SCALE



- AFFIX 3M DUAL LOCK LOW PROFILE RECLOSABLE FASTENER TO FLOOR AND MAT PERIMETER.

CLEAN UNDERSIDE OF MAT W/ IPA, RUBBING ALCOHOL OR HEPTANE.

APPLY 3M RUBBER & VINYL SPRAY 80

PRIMER TO UNDERSIDE OF MAT.

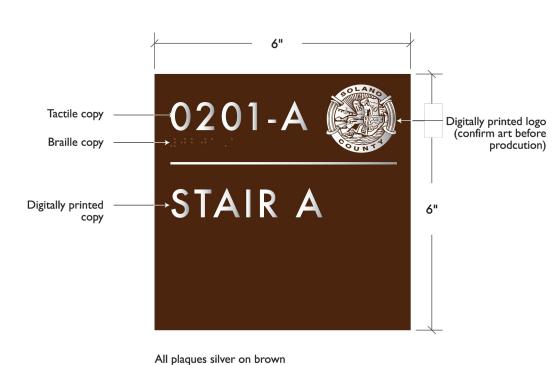
APPLY WITH ROLLER TO MAXIMIZE PRESSURE & DO NOT DISTURB FOR 24 HOURS.





SIGN TYPE - R

SCALE: NOT TO SCALE



| TYPE | ROOM<br>NUMBER | ROOM NAME  |
|------|----------------|------------|
| R    | (NONE)         | STAIR A    |
| R    | (NONE)         | STAFF ONLY |
| R    | (NONE)         | EXIT ONLY  |
| Q1   | H1201          | STAFF ONLY |
| Q1   | 0105           | STAFF ONLY |
| Q1   | 0201-A         | STAIR A    |

NOTE: ROOM SIGNAGE TO BE PROVIDED BY COUNTY VENDOR

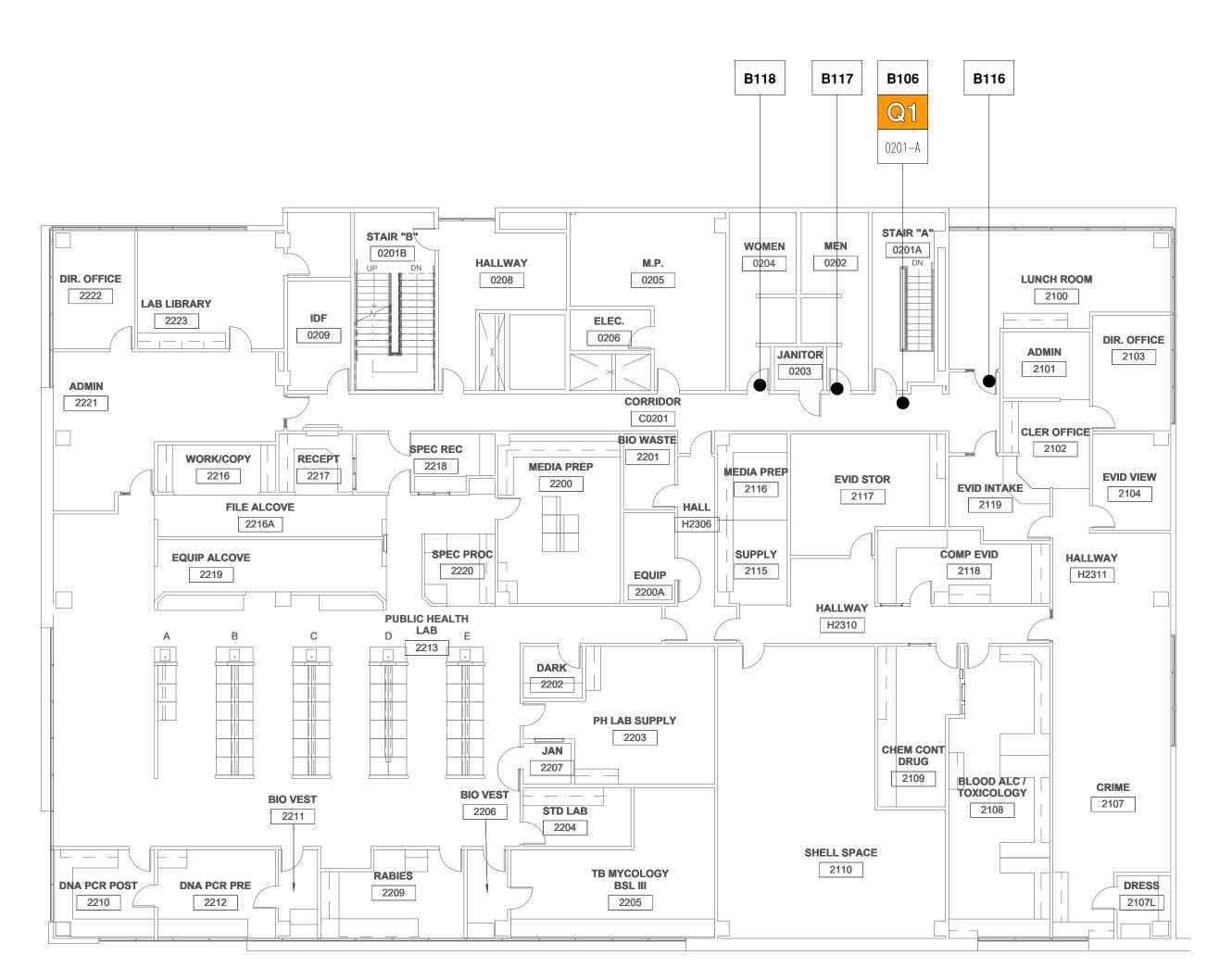


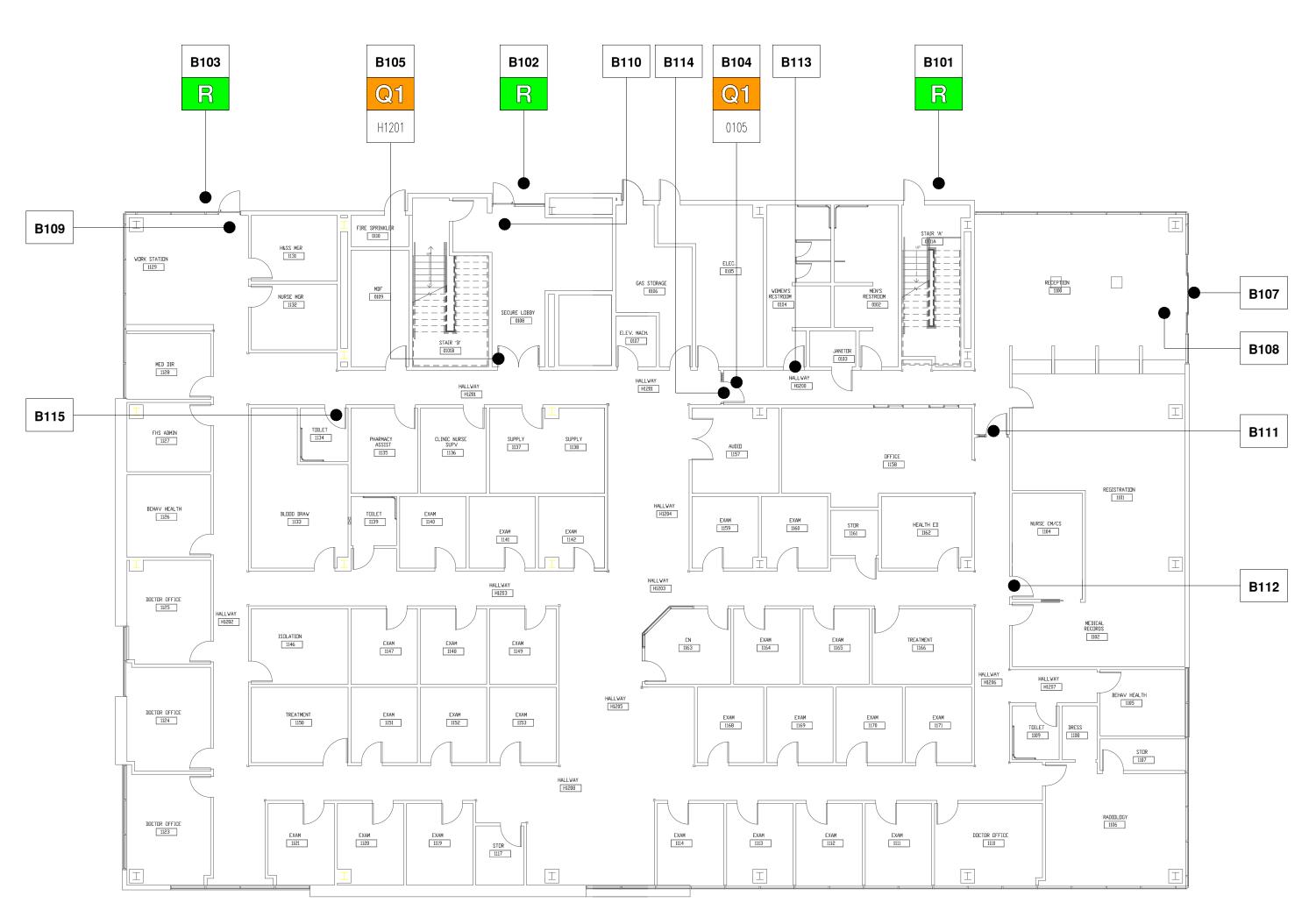
SIGN TYPE - Q1

SCALE: NOT TO SCALE

ROOM SIGN SCHEDULE

SCALE: NOT TO SCALE









SHEET NUMBER

COUNTY DISTRICT ATTORNEY (DA)

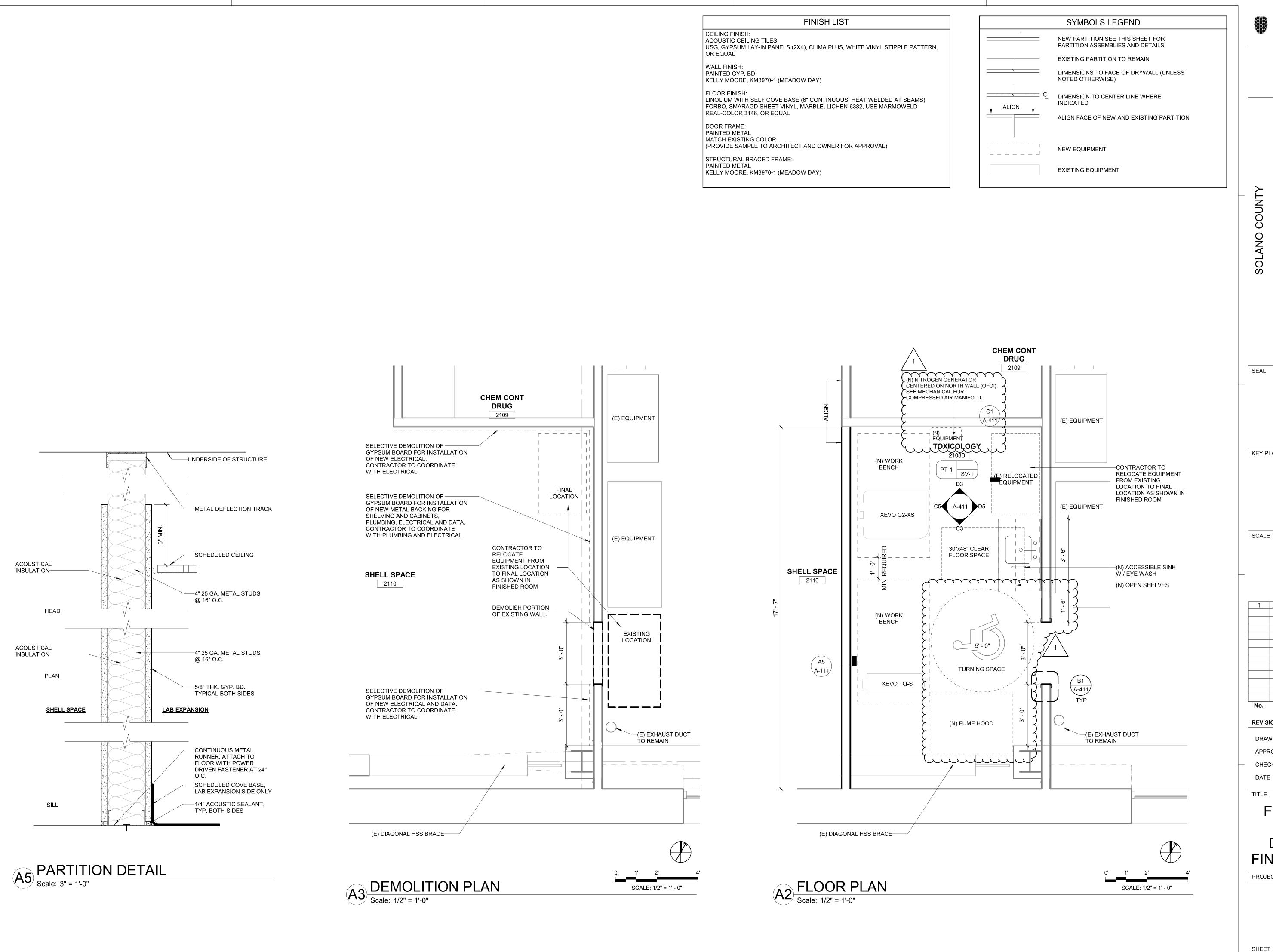
CLAB - TOXICOLOGY EXPANSION

C LAB — IUXICOLOCO 101 courage dr., 2nd flr Fairfield, ca

REN. 10-31-23

SOLANO COUNTY FORENSIC LAB — 2201 COURAGE FA

SHEET NUMBER



Dewberry

DEWBERRY ARCHITECTS, INC. 1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone

000.000.0000 Fax

E DRIVE TORNEY(DA) SUIT A 94533

100%

C-38504 Samara A. Clarke

KEY PLAN

As indicated

1 ADDENDUM #1 04.05.22 Description **REVISIONS** DRAWN BY APPROVED BY CHECKED BY APRIL 05, 2022

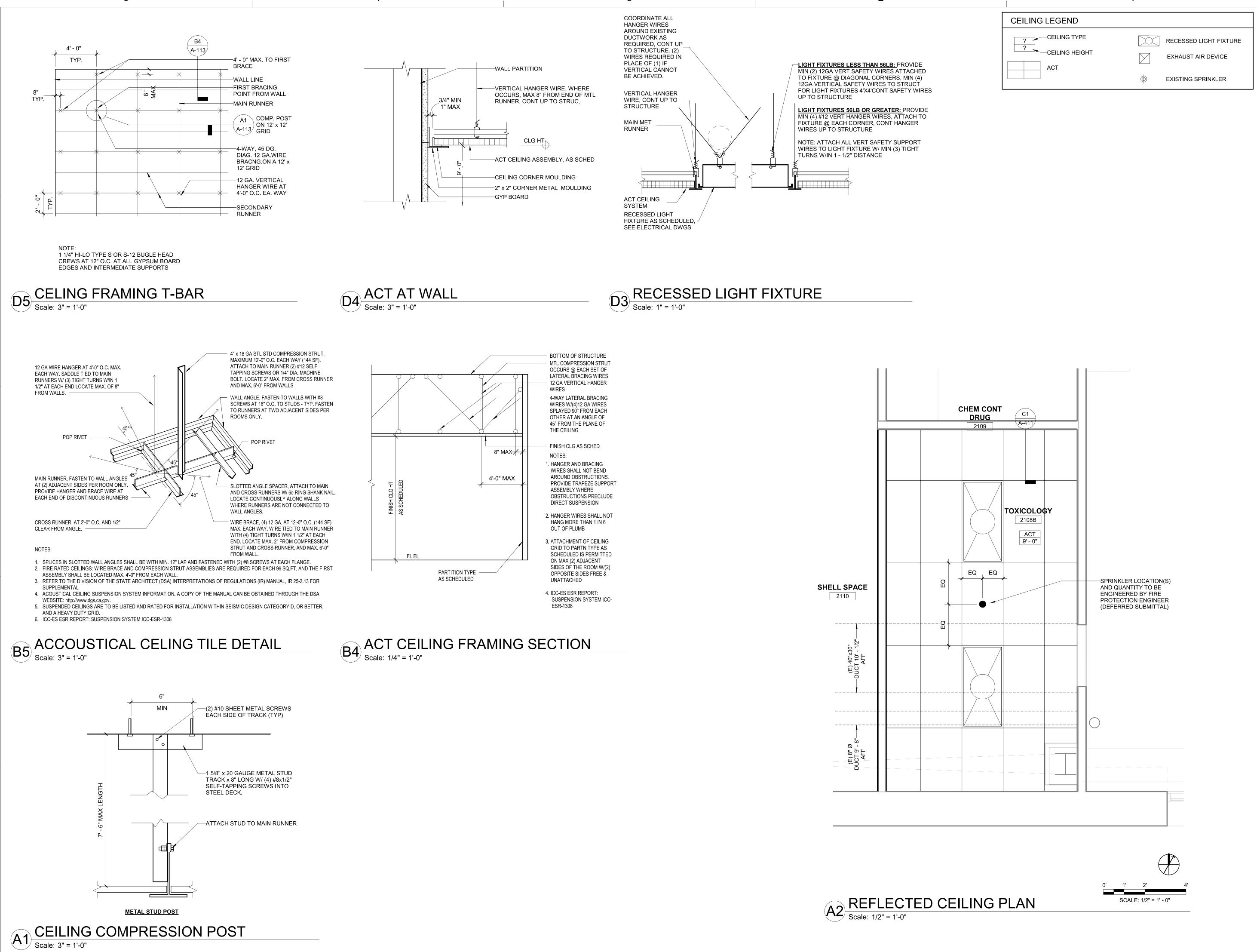
FLOOR PLANS, **PARTITION DETAILS AND** FINISH SCHEDULE

50137033

PROJECT NO.

A-111

SHEET NO.



**Dewberry** 

DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE
SUITE 200
SACRAMENTO, CA 95833
916.239.7254 Phone

916.239.7254 Phone 000.000.0000 Fax

NTY DA FORENSIC -OGY EXPANSION

COUNTY

SOLANO

2201 COURAGE DRIVE D FLOOR DISTRICT ATTORNEY(DA) 8 FAIRFIELD, CA 94533

100%

SEAL

TAMARA A. CLARKE

C-38504

FAMARA A. CLARKE

FAMARA A. CLARKE

C-38504

FAMARA A. CLARKE

FAMARA A. CLARKE

FAMARA A. CLARK

SCALE

As indicated

No. Description Date

REVISIONS

DRAWN BY Author

APPROVED BY Approver

CHECKED BY Checker

DATE APRIL 05, 2022

REFLECTED
CEILING PLAN AND
CEILING DETAILS

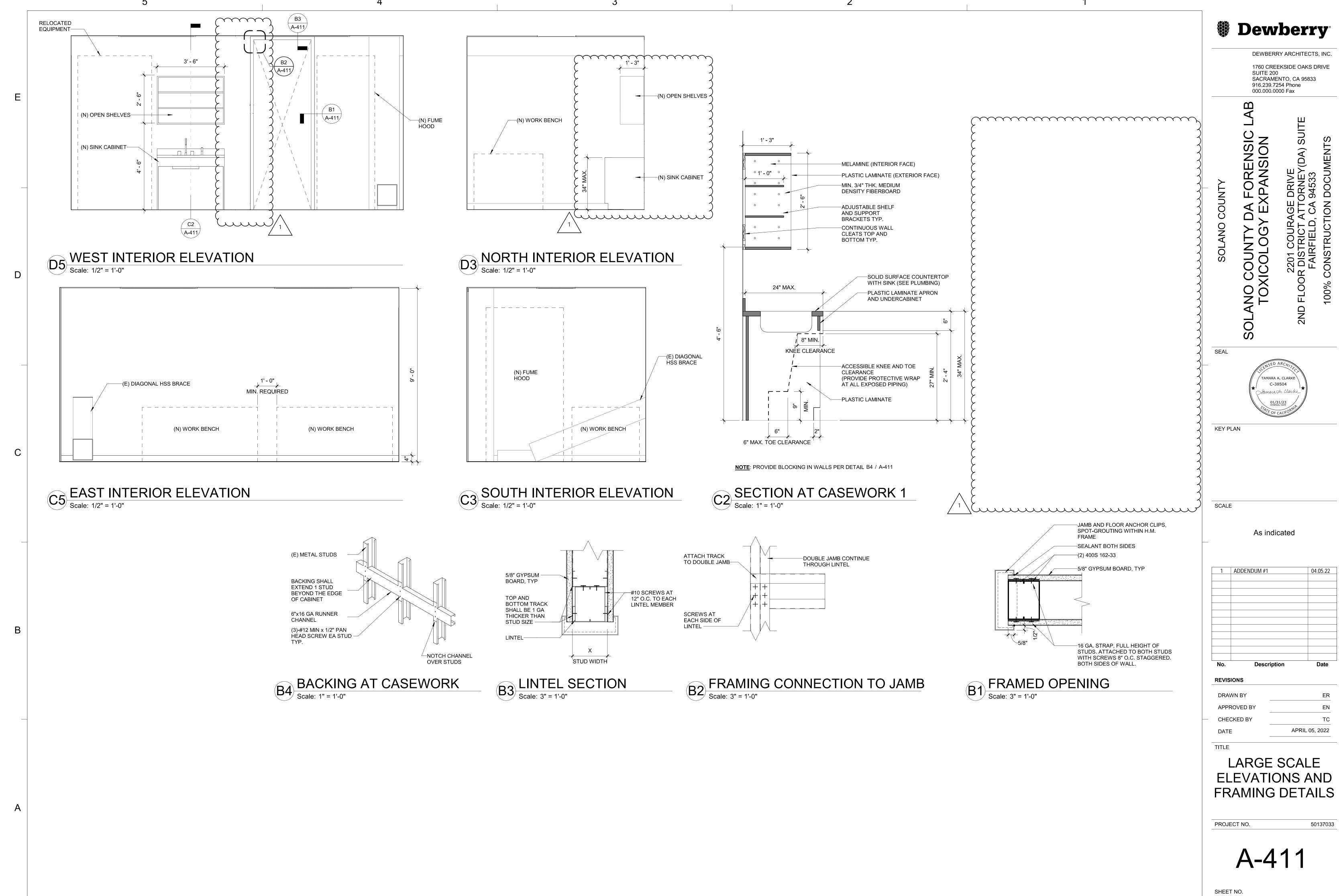
50137033

PROJECT NO.

A-113

SHEET NO.

TITLE



**DUCT LEGEND** SINGLE LINE SYMBOL DOUBLE LINE SYMBOL DESCRIPTION RECTANGULAR DUCT -24x12 24x12 WIDTH X DEPTH (PLAN VIEW) DEPTH X WIDTH (SECTION VIEW) ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE. 26x14L 26x14L \_\_\_\_\_ MANUAL AIR DAMPER R OR D RISE OR DROP DUCT IN DIRECTION OF AIR RISE OR DROP RECTANGULAR TO RECTANGULAR TRANSITION  $\longrightarrow$ RECTANGULAR TO ROUND TRANSITION, MAX ELBOW, RECTANGULAR, SMOOTH RADIUS, WI SQUARE/RECTANGULAR DUCT ELBOW WITH CONVERGING OR DIVERGING TEE, 45° ENTRY MAIN AND BRANCH. WHEN REDUCING MAIN, OFF OR ENTRY BRANCH TO BE FLAT, OTHER MAXIMUM SLOPE OF 1:3. CONICAL DUCT TAKE OFF FROM RECTANGULA W/DAMPER AND SCOOP. ROUND DUCT TAKE OFF FROM RECTANGULAR CONVERGING BELL MOUTH. ROUND DUCT RECTANGULAR DUCT TEE, MAD'S ON THE 2 THROAT SIZED FOR EQUAL PRESSURE DROP RECTANGULAR DUCT SPLIT MAD'S, THROAT EQUAL PRESSURE DROP. 3-WAY RECTANGULAR SPLIT WITH TWO TRAI ELBOWS AND TRANSITIONING MAIN. DOWNST THE TREE BRANCHES. THROATS SIZED FOR PRESSURE DROP. FOR CONCEALED DUCT: DROP TO DIFFUSER SIZE OF DIFFUSER NECK. FOR EXPOSED DUG BE FULL SIZE OF OD DIFFUSER FRAME, FLA MOUNTING DIFFUSER TURNED IN. AIR EXTRA EQUALIZER GRID AT CONNECTION TO MAIN. SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, RETURN AIR, RETURN AND OUTSIDE AIR DUC RETURN AIR DROP. EXHAUST AIR, EXHAUST AIR DUCT IN SECTION FLEXIBLE DUCT (ROUND) **~~~~** FLEXIBLE DUCT (FABRIC) **~~~~** 45° REDUCING LATERAL FITTING 90° REDUCING TEE FITTING

## MECHANICAL GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- 2. VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE AND EQUIPMENT PRIOR TO COMMENCING WORK.
- 5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES.
- 6. FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DUFFUSER.
- 7. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- 8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING ETC., ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING ETC. IS SHOWN LIGHT. SEE LEGEND.
- 9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND, COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.

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| _  |               |
|  |               |
| FLOW                                     |               |
| . 20                                     |               |
| N, MAX SLOPE                             | <br>          |
| SLOPE OF 1:3                             |               |
| ITHOUT TURNING                           |               |
|  |               |
| TURNING VANES                            | [             |
| 7,11,25                                  |               |
| , RECTANGULAR<br>SIDE OF TAKE<br>R SIDES |               |
| R SIDES                                  |               |
|  |               |
| LAR VIA SPIN-IN                          |               |
|  |               |
| AR VIA SMOOTH                            |               |
|  |               |
|  |               |
| BRANCHES,                                |               |
|  |               |
|  |               |
| SIZED FOR                                |               |
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| ANSITIONAL<br>REAM MAD'S ON              |               |
| EQUAL                                    |               |
| SHALL BE FULL                            |               |
| CT: DROP SHALL ANGE FOR ACTOR AND        |               |
|  |               |
| I, SUPPLY DROP                           |               |
| ICT IN SECION ,                          | <del>-x</del> |
| ION, EXHAUST                             |               |
|  | E-E           |
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| ANY                                      |               |
|  | <b>-</b>      |

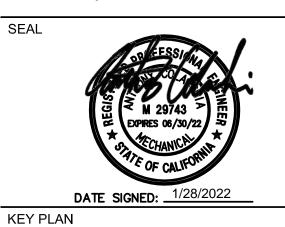
| MECHANICAL LEGEND                         |              |   |  |  |  |
|---|--------------|---|--|--|--|
| SYMBOL                                    | ABBREVIATION | DESCRIPTION   |  |  |  |
|   | ABV          | ABOVE   |  |  |  |
|   | ABC          | ABOVE CEILING   |  |  |  |
|   | AF           | ABOVE FLOOR   |  |  |  |
|   | AFF<br>AFG   | ABOVE FINISHED FLOOR  ABOVE FINISHED GRADE              |  |  |  |
| $\square$                                 | AD, AP       | ACCESS DOOR , ACCESS PANEL                              |  |  |  |
| الخا                                      | AC           | AIR CONDITIONING  |  |  |  |
|   | APD          | AIR PRESSURE DROP, INCHES WATER COLUMN                  |  |  |  |
|   | AB           | ANCHOR BOLT   |  |  |  |
| <b>☆</b>                                  | ANV          | ANGLE VALVE AUTOMATIC AIR VENT                          |  |  |  |
| ₹<br>———————————————————————————————————— | AAV<br>BV    | BALL VALVE  |  |  |  |
|   | BDD          | BACK DRAFT DAMPER                                       |  |  |  |
|   | BF           | BELOW FLOOR   |  |  |  |
|   | BHP          | BRAKE HORSE POWER                                       |  |  |  |
|   | BTU(H)       | BRITISH THERMAL UNITS (PER HOUR)                        |  |  |  |
| BPT                                       | BFV          | BUTTERFLY VALVE   |  |  |  |
| ——————————————————————————————————————    | BPT<br>CBV   | BYPASS TIMER  CALIBRATED BALANCE VALVE                  |  |  |  |
|   | CC           | CENTER TO CENTER  |  |  |  |
|   | CLG          | CEILING   |  |  |  |
| _   | CEF          | CEILING EXHAUST FAN                                     |  |  |  |
|   | CKV          | CHECK VALVE   |  |  |  |
| CHWS                                      | CHWS         | CHILLED WATER SUPPLY PIPING CHILLED WATER RETURN PIPING |  |  |  |
| CHWR                                      | CHWR<br>CP   | CHILLED WATER RETURN PIPING  CIRCULATING PUMP           |  |  |  |
| ~   | CLR          | CLEAR   |  |  |  |
|   | CONC         | CONCRETE  |  |  |  |
| <b>───</b>                                |              | CONCENTRIC REDUCER                                      |  |  |  |
| —— CD ——                                  | CD           | CONDENSATE DRAIN  |  |  |  |
|   | COND<br>CONN | CONDENSER CONNECT OR CONNECTION                         |  |  |  |
|   | CONT         | CONTINUATION  |  |  |  |
|   | CONTR        | CONTRACTOR  |  |  |  |
| f   | CFM          | CUBIC FEET OF AIR FLOW PER MINUTE                       |  |  |  |
|   | DPR          | DAMPER  |  |  |  |
| °F  |              | DEGREES FAHRENHEIT                                      |  |  |  |
| Ø   | DIA<br>DL    | DIAMETER , PHASE  DOOR LOUVER                           |  |  |  |
|   | DN           | DOWN DOWN   |  |  |  |
|   | DR           | DRAIN   |  |  |  |
|   | DB           | DRY BULB (DEGREES FAHRENHEIT)                           |  |  |  |
| OS  | DS           | DYNAMIC SENSOR  |  |  |  |
|   |              | ECCENTRIC REDUCER                                       |  |  |  |
|   | EP<br>EL     | ELECTRICAL PANEL ELEVATION                              |  |  |  |
|   | ENT          | ENTERING  |  |  |  |
|   | EDB          | ENTERING DRY BULB                                       |  |  |  |
|   | EW           | ENTERING WATER  |  |  |  |
|   | EWT          | ENTERING WATER TEMPERATURE                              |  |  |  |
|   | EWB<br>EVAP  | ENTERING WET BULB EVAPORATOR                            |  |  |  |
|   | EVAP<br>EA   | EXHAUST AIR   |  |  |  |
|   | EAD          | EXHAUST AIR DAMPER                                      |  |  |  |
|   | EF           | EXHAUST FAN   |  |  |  |
|   | (E), EXIST   | EXISTING  |  |  |  |
| <del>-x x x</del>                         | (E)          | EXISTING TO BE REMOVED                                  |  |  |  |
|   | ESP<br>FPM   | EXTERNAL STATIC PRESSURE  FEET PER MINUTE               |  |  |  |
|   | FIN          | FINISH  |  |  |  |
| F   | FD           | FIRE DAMPER   |  |  |  |
| FS  | FS           | FIRE/SMOKE DAMPER                                       |  |  |  |
| — <b> </b>                                | FC           | FLEXIBLE CONNECTION                                     |  |  |  |
| _   | FLR          | FLOOR  FLOW IN DIRECTION OF APPOW                       |  |  |  |
|   | FLV          | FLOW IN DIRECTION OF ARROW FLOW LIMITING VALVE          |  |  |  |
|   | FA           | FROM ABOVE  |  |  |  |
|   | FB           | FROM BELOW  |  |  |  |
| <u>,</u>                                  | FLA          | FULL LOAD AMPS  |  |  |  |
| —— V⊢———— <b> </b>                        | GCK          | GAGE COCK   |  |  |  |
|   | GPH<br>GPM   | GALLONS PER HOUR  |  |  |  |
| ×   | GPM<br>GV    | GALLONS PER MINUTE  GATE VALVE                          |  |  |  |
| <b>───</b>                                | GLV          | GLOBE VALVE   |  |  |  |
|   | GALV         | GALVANIZED  |  |  |  |
|   | GI           | GALVANIZED IRON   |  |  |  |
|   | GA           | GAUGE   |  |  |  |
|   | HTG          | HEATING   |  |  |  |
| —— н <b>w</b> s ——                        | HW<br>HWS    | HOT WATER HOT WATER SUPPLY PIPING                       |  |  |  |
| 11775 —-                                  | HWR          | HOT WATER SUPPLY PIPING  HOT WATER RETURN PIPING        |  |  |  |
| HWR                                       |              | I HOLWALLY METONIA LILING                               |  |  |  |

| <u> </u>          |                             | CAL LEGEND cont'd  |
|-------------------|-----------------------------|--|
| SYMBOL            | ABBREVIATION                | DESCRIPTION  |
|                   | ıe                          | INIVERT ELEVATION  |
|                   | IE<br>KW                    | INVERT ELEVATION KILOWATTS                               |
|                   | KWH                         | KILOWATT HOUR  |
|                   | LDB                         | LEAVING DRY BULB IN DEGREES FAHRENHEIT                   |
|                   | LWB                         | LEAVING WET BULB IN DEGREES FAHRENHEIT                   |
|                   | LRA<br>LVR                  | LOCKED ROTOR AMPERES  LOUVER                             |
|                   | MAD                         | MANUAL AIR DAMPER  |
| ₹                 | MAV                         | MANUAL AIR VENT  |
|                   | MFR                         | MANUFACTURER   |
|                   | MAX<br>MIN                  | MAXIMUM  |
| M                 | MCD                         | MINIMUM  MOTORIZED CONTROL DAMPER                        |
| _                 | (N)                         | NEW  |
| (oco)             | occ                         | OCCUPANCY SENSOR   |
|                   | OC                          | ON CENTER  |
|                   | OA<br>OAD                   | OUTSIDE AIR OUTSIDE AIR DAMPER                           |
|                   | OD                          | OUTSIDE DIAMETER   |
|                   | ov                          | OUTLET VELOCITY  |
| _                 | ОН                          | OVERHEAD   |
|                   |                             | PETE'S PLUG  |
| <del></del>       |                             | PIPE ANCHOR PIPE DROP                                    |
|                   |                             | PIPE GUIDE   |
| <u> </u>          |                             | PIPE RISE  |
|                   |                             | PITCH DOWN IN DIRECTION OF FLOW                          |
| •                 | POC                         | POINT OF CONNECTION                                      |
|                   | LBS<br>PSI (G) (A)          | POUNDS POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)         |
|                   | PD                          | PRESSURE DROP  |
| 9                 | PG                          | PRESSURE GAUGE   |
|                   | PRV                         | PRESSURE REDUCING VALVE                                  |
| 域                 | RV or P&TRV                 | RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE      |
|                   | RA                          | RETURN AIR   |
|                   | RAD                         | RETURN AIR DAMPER  |
|                   | RPM                         | REVOLUTIONS PER MINUTE                                   |
|                   | RLA                         | RUNNING LOAD AMPERES                                     |
|                   | SB<br>SM                    | SECURITY BARS SHEET METAL                                |
| <u>5D</u> —-—     | SM<br>SD                    | SMOKE DAMPER   |
|                   | SKD                         | SMOKE DETECTOR   |
|                   | SD                          | SPLITTER DAMPER  |
| Ф.                | SQFT, FT <sup>2</sup>       | SQUARE FEET  |
|                   | SQIN, IN <sup>2</sup><br>SP | SQUARE INCHES STATIC PRESSURE                            |
|                   | SPD                         | STATIC PRESSURE DROP                                     |
| ——⊗——             |                             | STEAM TRAP (ALL TYPES)                                   |
| <del></del>       | STR                         | STRAINER   |
|                   | SA                          | SUPPLY AIR   |
|                   | SF<br>TCP                   | SUPPLY FAN TEMPERATURE CONTROL PANEL                     |
| _                 | TCV                         | TEMPERATURE CONTROL VALVE                                |
| (TS) <sub>X</sub> |                             | TEMPERATURE SENSOR, "X" INDICATES SYSTEM CONTROLLED,     |
| Į į               |                             | INSTALLED AT +46" AFF (TO TOP OF DEVICE)                 |
|                   | т                           | THERMOMETER THERMOSTAT, "X" INDICATES SYSTEM CONTROLLED, |
| , Qx              | ı                           | INSTALLED AT +46" AFF (TO TOP OF DEVICE)                 |
|                   | мвн                         | THOUSAND BRITISH THERMAL UNITS PER HOUR                  |
|                   | TA                          | TO ABOVE   |
|                   | TB                          | TO BELOW   |
|                   | TP<br>TSP                   | TOTAL PRESSURE TOTAL STATIC PRESSURE                     |
|                   | TSP<br>TYP                  | TYPICAL TYPICAL  |
|                   | UG                          | UNDERGROUND  |
|                   | UCD                         | UNDER CUT DOOR   |
| .1.               | UON                         | UNLESS OTHERWISE NOTED                                   |
| ————              | <b>\</b> # \/               | UNION  |
| ģ                 | VLV                         | VALVE VALVE IN RISER (TYPE AS INDICATED OR NOTED)        |
| <b>→</b> ⊗——      |                             | VALVE IN VALVE BOX                                       |
|                   | WPD                         | WATER PRESSURE DROP                                      |
|                   | W                           | WATTS  |
|                   | WT                          | WEIGHT   |
|                   | WB<br>WAAS                  | WET BULB   |
|                   | WMS<br>WP                   | WIRE MESH SCREEN WORKING PRESSURE                        |
| &                 | •••                         | 2-WAY CONTROL VALVE                                      |
| <b>\$</b>         |                             | 3-WAY CONTROL VALVE                                      |
| <b>谷</b> I        |                             |  |



DEWBERRY ARCHITECTS, INC. 1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone

000.000.0000 Fax



SCALE

As indicated

Description

**REVISIONS** DRAWN BY APPROVED B CHECKED BY APRIL 05, 2022 DATE TITLE

**HVAC** LEGEND & NOTES

PROJECT NO. 50137033

SHEET NO.



NOTE: SIX (6) -120V/1ø/60Hz CIRCUITS FOR THE CAY/VAV CONTROLS HAVE BEEN PROVIDED BY DIVISION 16 WITH JUNCTION BOXES (SEE ELEC DWGS). DIVISION 15 CONTROLS SHALL RUN CONDUIT AND WIRING FROM THE J-BOXES

1/4" TYPE "L" COPPER

FITTINGS & TUBING

 $\frac{1}{4}$ " SAE x  $\frac{1}{2}$ "
NPT ADAPTER

 $2" \times \frac{1}{2}"$  REDUCER

2" x 6" NIPPLE -

REDUCER OR INCREASER IF

CONNECT TO

WATER LINES

SCALE : NONE

REQUIRED

TO THE CAV AND VAV BOXES. -

— FAST ACTUATOR CONTROLLED BY CAV CONTROLLER V2 IF 2-WAY PER SCHEDULES V2 IF 2-WAY RTS

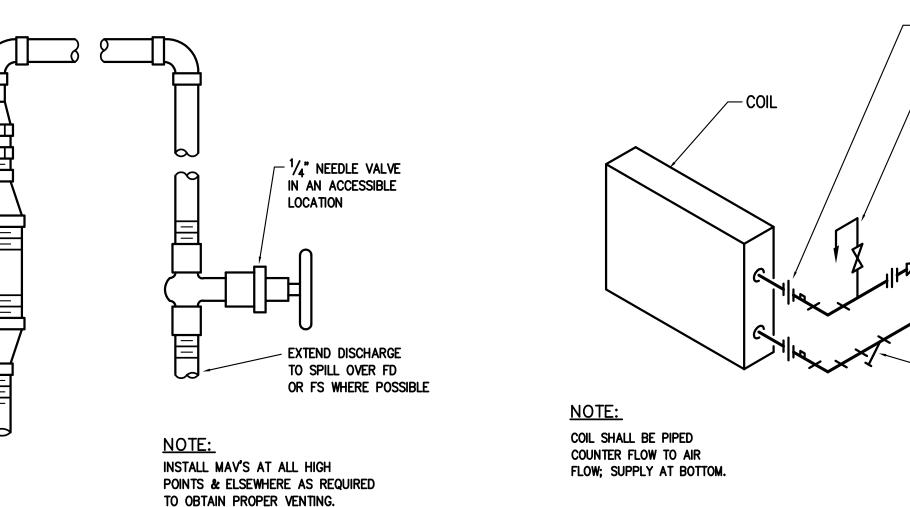
**CAV WITH REHEAT** 

CAV CONTROLS DIAGRAM

MANUAL AIR VENT (MAV) DETAIL

M-002

SCALE: NONE



M-002

REHEAT COIL PIPING (2-WAY)

IS ACCEPTABLE.

NOTE: FLEXIBLE DUCTWORK IS NOT ALLOWED TO

OR GRILLE IN EXPOSED AREAS WITHOUT CEILINGS.

ANY EXHAUST AIR REGISTER OR GRILLE. FLEX DUCT

IS NOT ALLOWED ON ANY TYPE OF DIFFUSER, REGISTER,

- MAV, SEE  $\begin{pmatrix} 4 \\ N - 002 \end{pmatrix}$ 

PETE'S PLUG, TYP

BALL VALVE LINE SIZE

3

M-002

M-002

SEE PLANS

UNLESS

\_ \_ NOTED \_ \_ \_

OTHERWISE

3/4" UNLESS OTHERWISE

NOTED ON PLANS

"Y" STRAINER WITH HOSE END

GATE VALVE BLOWOFF

SCALE : NONE

LINED SHEET METAL PLENUM SIZED TO BE LARGER THAN DIFFUSER NECK & INLET DUCT. TYP. 11/8" 16 GA HANGER SUPPORTS ALTERNATE SHEET (4 MIN.) ATTACH TO STRUCTURE— METAL CONNECTION ELBOW W/TURNING -LINED PLENUM RETURN FOR RECTANGULAR -VANES SAME SIZE AS DIFFUSER NECK --1" LINING, TYPICAL - SPIN-IN COLLAR S.M. SCREW, MIN. 2 PER HANGER. -SHEET METAL SCREWS ---TRANSITION AS REQ'D TO ROUND OR RECTANGULAR DUCT, SEE PLANS FOR SIZE. GYP. BD. CEILING - $^{\perp}$  T-bar ceiling TRANSITIONAL ELBOW

RETURN, EXHAUST & SUPPLY REGISTER DETAIL

ROUND INSULATED ACCOUSTICAL FLEX DUCT (SA &

TO LINED SHEET METAL PLENUM. MAXIMUM 6 FEET

FLEXIBLE DUCT ALLOWED ON SUPPLY AND RETURN

ONLY. SEE PLANS & SCHEDULES FOR SIZE AND

CONFIGURATION OF DIFFUSERS AND DUCTWORK.

RA ONLY WITH CEILING) OR RECTANGULAR DUCT

SCALE: NONE

SEE SCHEDULE FOR

TYPE, SEE PLAN FOR SIZE —

# TERMINAL UNIT SCHEDULE

| UNIT AREA |                 | "TITUS"       | MAX  | MIN  | DISCHARGE | TOTAL AIR PRESSURE | N         | С        | 2-R( | OW RE | HEAT COIL                | VALVE |
|-----------|-----------------|---------------|------|------|-----------|--------------------|-----------|----------|------|-------|--------------------------|-------|
| ONII      | SERVED          | ESV<br>SERIES | CFM  | CFM  | CONN SIZE | DROP               | DISCHARGE | RADIATED | MBH  | GPM   | PD (FT H <sub>2</sub> O) |       |
| CAV<br>51 | TOXI—<br>COLOGY | 14            | 1250 | 1250 | 20x18     | 0.24               | < 20      | 23       | 40.0 | 2.0   | 0.56                     | 2-WAY |
|           |                 |               |      |      |           |                    |           |          |      |       |                          |       |

NOTES: PROVIDE BOX W/DAMPER AND LINKAGE AND AVERAGING VELOCITY SENSOR. FOR CONTROLS SEE SHEETS 5/M-001. HW  $\Delta T = 40^{\circ}$ F, 180°F EWT, 140°F LWT, FOR BOX MOUNTING SEE 1/M-002. FOR HW COIL PIPING SEE 3/M-001 & 12/M5.01. TERMINAL UNITS HAVE BEEN SELECTED WITH 1.0" INLET STATIC PRESSURE FOR NOISE CRITERIA DATA.

PROVIDE 3-WAY TEMPERATURE CONTROL VALVES AS NOTED ON SCHEDULE AT END OF RUNS AND DISTANT BOXES, 2-WAY VALVES ALL OTHER TERMINAL BOX COILS. VAV REHEAT COIL MBH'S CALCULATED AT MINIMUM CFM. ALL CAV AND VAV COILS SHALL BE 2 ROWS, 8 FPI MINIMUM

# DIFFUSER, REGISTER & GRILLE SCHEDULE

| ľ | SYMBOL | DESCRIPTION  | TITUS               | PRICE         | METALAIR | KRUEGER          |
|---|--------|--|---------------------|---------------|----------|------------------|
| Ī | CDL    | MODULAR CORE LAY-IN<br>CEILING DIFFUSER FOR<br>T-BAR CEILING 24x24 | MCD - BORDER TYPE 3 | SMCD-FRAME 3P | 9000-6P  | 1240<br>FRAME 23 |

NOTES: 1. ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.

> 2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.

REGISTER OR GRILLE.

3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.

4. COORDINATE DIFFUSER TYPE WITH REFLECTED CEILING PLAN.

5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.

6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER,

7. FOR MOUNTING SEE 2/M-002

) COUNT XICOLOC

Dewberry

SUITE 200

DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE

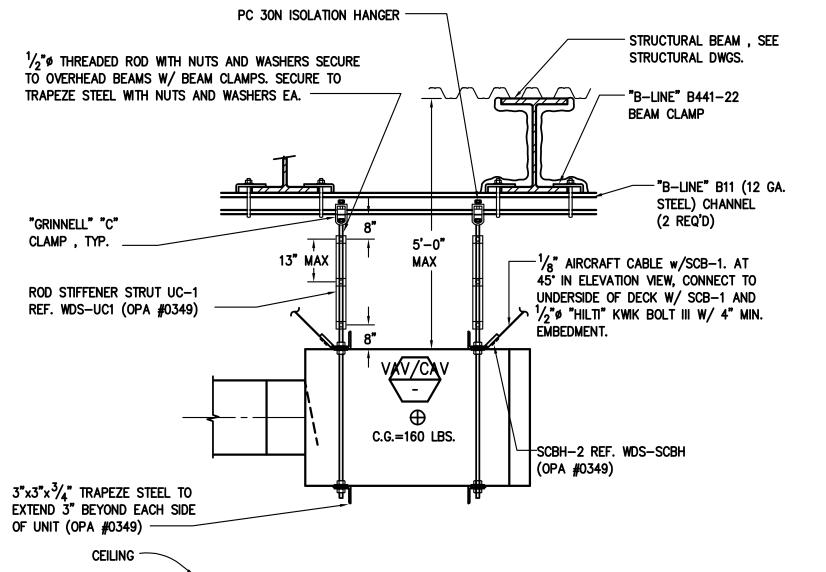
SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax

DATE SIGNED: 1/28/2022 **KEY PLAN** 

COUNT

SCALE

As indicated



#### TERMINAL UNIT SUPPORT DETAIL

SCALE: NONE



**DETAILS** PROJECT NO.

SCHEDULE &

APRIL 05, 2022

50137033

SHEET NO.

Cabitar engineering RANCHO CORDOVA, CALIFORNIA

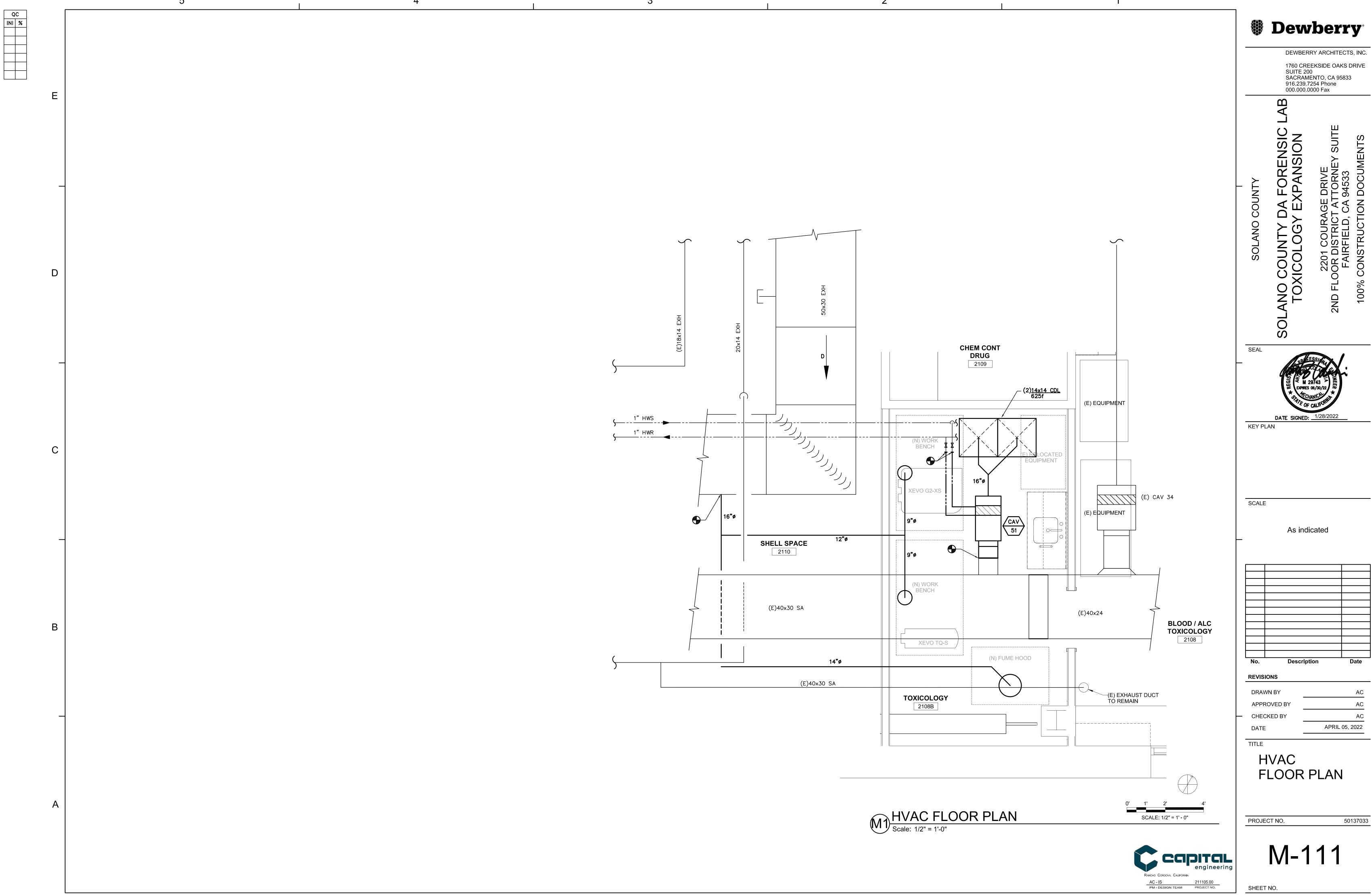
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CHECKED BY

**HVAC** 

DATE

TITLE



### PLUMBING GENERAL NOTES

- 1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCAITONS OF PLUMBING FIXTURES.
- 2. COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.
- 3. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
- 4. PROVIDE GATE VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.
- 5. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
- 6. PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL
- DOMESTIC HOT WATER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS TO WITHSTAND 0.29 LATERAL AND VERTICAL LOADS.
- 8. PRIOR TO ANY SOLENOID VALVE, QUIK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED SIZE.
- 9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF THE ENFORCING AGENCY.
- 10. OFFSET VENTS THRU ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.
- 11. CONDENSATE DRAIN LINE CONNECITONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND CLEANOUTS AT ALL OFFSETS.
- 12. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
- 13. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- 14. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.

| PLUMBING LEGEND                                 |                 |   |  |  |  |
|---|-----------------|---|--|--|--|
| SYMBOL  | ABBREVIATION    | DESCRIPTION   |  |  |  |
|   | ABC             | ABOVE CEILING   |  |  |  |
|   | AFF             | ABOVE FINISHED FLOOR  |  |  |  |
|   | AFG             | ABOVE FINISHED GRADE  |  |  |  |
|   | AF , BF         | ABOVE FLOOR , BELOW FLOOR                                   |  |  |  |
|   | AD , AP         | ACCESS DOOR , ACCESS PANEL                                  |  |  |  |
| ——AW——  | AW              | ACID WASTE BELOW FLOOR                                      |  |  |  |
| ——AW——  | AW              | ACID WASTE ABOVE FLOOR                                      |  |  |  |
| AV  | AV              | ACID VENT PIPING  |  |  |  |
| 4   | ANV             | ANGLE VALVE   |  |  |  |
| Y   | AQ              | AQUASTAT  |  |  |  |
|   | AD              | AREA DRAIN  |  |  |  |
| ——G———  | BFP, RP, DCV    | BACKFLOW PREVENTER, REDUCED PRESSURE,<br>DOUBLE CHECK VALVE |  |  |  |
|   | BV              | BALL VALVE  |  |  |  |
|   |                 | BRANCH - TOP CONNECTION                                     |  |  |  |
| <del>-                                   </del> |                 | BRANCH — BOTTOM CONNECTION                                  |  |  |  |
| or —  |                 | BRANCH — SIDE CONNECTION                                    |  |  |  |
| ————————————————————————————————————            | BFV             | BUTTERFLY VALVE   |  |  |  |
| <u></u>   | CBV             | CALIBRATED BALANCE VALVE                                    |  |  |  |
|   | COP             | CAP ON END OF PIPE  |  |  |  |
| ——co <sub>2</sub> ——                            | CO <sub>2</sub> | CARBON DIOXIDE  |  |  |  |
| <u> </u>  | CB , RD         | CATCH BASIN , ROOF DRAIN                                    |  |  |  |
| Ę.  |                 | CENTER LINE   |  |  |  |
| CG  | CG              | CHASIS GREASE   |  |  |  |
|   | CKV             | CHECK VALVE   |  |  |  |
|   | CP<br>CW        | CIRCULATING PUMP COLD WATER                                 |  |  |  |
|   | CWD             | COLD WATER DROP   |  |  |  |
|   | CWR             | COLD WATER RISE   |  |  |  |
| н   | CWH, HWH, VH    | COLD WATER HEADER, HOT WATER HEADER, VENT HEADER            |  |  |  |
|   | CR              | CONCENTRIC REDUCER  |  |  |  |
| CD  | CD              | CONDENSATE DRAIN LINE                                       |  |  |  |
|   | CMP             | CORRUGATED METAL PIPE                                       |  |  |  |
| <u></u>   | СО              | CLEANOUT  |  |  |  |
| F   |                 | DEGREES FAHRENHEIT  |  |  |  |
| ø, t  |                 | DIAMETER , SQUARE (FEET)                                    |  |  |  |
|   | ER              | ECCENTRIC REDUCER   |  |  |  |
| <del>* * *</del>                                | (E)             | EXISTING TO BE REMOVED                                      |  |  |  |
|   | EJ              | EXPANSION JOINT   |  |  |  |
| FF=   |                 | FINISHED FLOOR ELEVATION                                    |  |  |  |
| FU  | F0              | FIXTURE UNIT  |  |  |  |
| Ø   | FC<br>CO        | FLEXIBLE CONNECTOR  |  |  |  |
| <u>~</u>  | CO<br>FD        | CLEANOUT FLOOR DRAIN  |  |  |  |
|   | FS FS           | FLOOR SINK  |  |  |  |
|   |                 | FLOW IN DIRECTION OF ARROW                                  |  |  |  |
|   | FLV             | FLOW LIMITING VALVE   |  |  |  |
| FS  | FS              | FLOW SWITCH   |  |  |  |
| FV , FT   |                 | FLUSH VALVE , FLUSH TANK                                    |  |  |  |
| (FA) , (TA)                                     |                 | FROM ABOVE , TO ABOVE                                       |  |  |  |
| (FB) , (TB)                                     |                 | FROM BELOW , TO BELOW                                       |  |  |  |
| <u> </u>  | GCK             | GAGE COCK   |  |  |  |
| <b>─</b> ──\\$⊢──                               | GSCK , PC       | GAS COCK , PLUG COCK  |  |  |  |
|   | GV              | GATE VALVE  |  |  |  |
|   | GPM             | GALLONS PER MINUTE  |  |  |  |
|   | GLV             | GLOBE VALVE   |  |  |  |
| Ø   | СО              | CLEANOUT  |  |  |  |
| † ·   | HD              | HOPPER DRAIN , HUB DRAIN                                    |  |  |  |
|   | HB              | HOSE BIBB   |  |  |  |

| HOT WATER PIPING HOT WATER PIPING RISE HOT WATER PIPING DROP HOT WATER RETURN HOT WATER RETURN RISE HOT WATER RETURN DROP NEW, EXISTING NOT TO SCALE OVERHEAD |
|---|
| HOT WATER PIPING RISE HOT WATER PIPING DROP HOT WATER RETURN HOT WATER RETURN RISE HOT WATER RETURN DROP NEW, EXISTING NOT TO SCALE OVERHEAD                  |
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| NEW , EXISTING<br>NOT TO SCALE<br>OVERHEAD  |
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| OVERHEAD  |
|   |
|   |
| OVERFLOW RAINWATER LEADER   |
| OVERFLOW DRAIN  |
| PIPE ANCHOR   |
| PIPE GUIDE  |
| PIPE IN SLEEVE  |
|   |
| PITCH DOWN IN DIRECTION OF FLOW   |
| PLUGGED TEE   |
| POINT OF CONNECTION   |
| PRESSURE GAUGE  |
| PRESSURE & TEMPERATURE RELIEF VALVE PIPING  |
| PRESSURE REDUCING VALVE   |
| PUMP DISCHARGE LINE   |
| RAINWATER LEADER  |
| RECESSED BOX HOSE BIBB OR WALL HYDRANT  |
|   |
| RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE   |
| RETURN  |
| RIM ELEVATION , INVERT ELEVATION  |
| RISE , DROP   |
| RISER DOWN (ELBOW)  |
| RISER UP (ELBOW)  |
| RISE OR DROP  |
| ROOF DRAIN  |
|   |
| SOIL, WASTE OR SANITARY SEWER ABOVE FLOOR   |
| SOIL, WASTE OR SANITARY SEWER BELOW FLOOR   |
| SOLENOID VALVE WITH MOTOR ACTUATOR  |
| STORM DRAIN   |
| STRAINER  |
| TEMPERED WATER SUPPLY   |
| THERMOMETER   |
| THREE WAY CONTROL VALVE   |
|   |
| TRAP PRIMER   |
| TRAP PRIMER PIPING  |
| TWO WAY CONTROL VALVE   |
| TYPICAL   |
| UNION OR FLANGE   |
| UNDER DRAIN   |
| VALVE WITH MOTOR ACTUATOR   |
| VALVE WITH MOTOR ACTUATOR  VALVE IN RISER (TYPE AS INDICATED OR NOTED)  |
| •   |
| VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS  |
| REQUIRED FOR VALVE TYPE USED)   |
| VENT PIPING   |
| VENT , VENT RISER , VENT THRU ROOF  |
| VITRIFIED CLAY PIPE   |
| WALL CLEANOUT   |
| WATER HAMMER ARRESTER   |
|   |
| WATER METER   |
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# PLUMBING LEGEND cont'd **KEY PLAN**

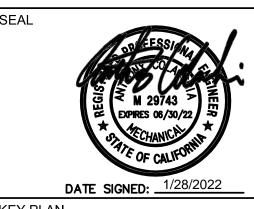
|              |        |   | PLU  | JMBING FIXTURE SPECIFICA   | ATION AND CONNECTION S  | CHEDULE   |       |    |                                 |      |                 |       |              | ,                                |             |               |
|--------------|--------|---|--|--|---|---|-------|----|---------------------------------|------|-----------------|-------|--------------|----------------------------------|-------------|---------------|
| ADA          | SYMBOL | FIXTURE                                       | FIXTURE<br>MANUFACTURER AND MODEL No.  | FAUCET OR VALVE MANUFACTURER AND MODEL No.   | TRIM MANUFACTURER AND MODEL No.   | REMARKS   | VENT  |    | STE<br>OUTLET                   |      | WATER<br>OUTLET | HOT V | WATER OUTLET | No.                              | Description | Date          |
|              | S-2    | SINK<br>COUNTER MOUNTED<br>HOT AND COLD WATER | "ELKAY" MODEL DLR172010 20" FRONT TO BACK, 17" WIDE x 10" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF-RIM. PROVIDE 3 HOLES 4" O.C., PROVIDE CENTER DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT PINS. | "T & S" MODEL EC-3100-04 SENSOR FAUCET W/ 2.2 GPM MODEL B-0199-02 AERATOR, RIGID GOOSENECK SPOUT | "ELKAY" MODEL L39, FLAT STRAINER  1 1/2" SS TAILPIECE "McGUIRE" 8912 CNC P-TRAP | "McGuire" 2167LK W/ Loose Key angle Valve,  1/2" OD, 12" CHROME PLATED RISER F-ESCUTCHEON IF REQUIRED PROVIDE PIPING TO THE COUNTER MOUNTED EYEWASH IN CASEWORK. COORDINATE WITH ARCHITECTURAL. | 11/2" | 2* | 1 <sup>1</sup> / <sub>2</sub> " | 3/4" | 1/2*            | 3/4"  | 1/2*         | PREVISION  DRAWN  APPROV  CHECKE | VED BY      | AC AC AC      |
| <u>&amp;</u> | EW     | EMERGENCY<br>EYE WASH<br>ADA                  | "HAWS" MODEL 7612 EYE WASH   | INTEGRAL   | INTEGRAL  |   | -     | _  | I                               | 3/4" | 3/4"            | 1     | -            | DATE                             | AF          | PRIL 05, 2022 |
|              |        |   |  |  |   |   |       |    |                                 |      |                 |       | ,            | PL                               | LUMBING     |               |



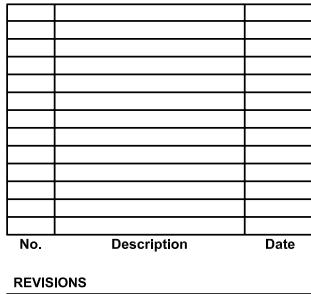


DEWBERRY ARCHITECTS, INC. 1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone

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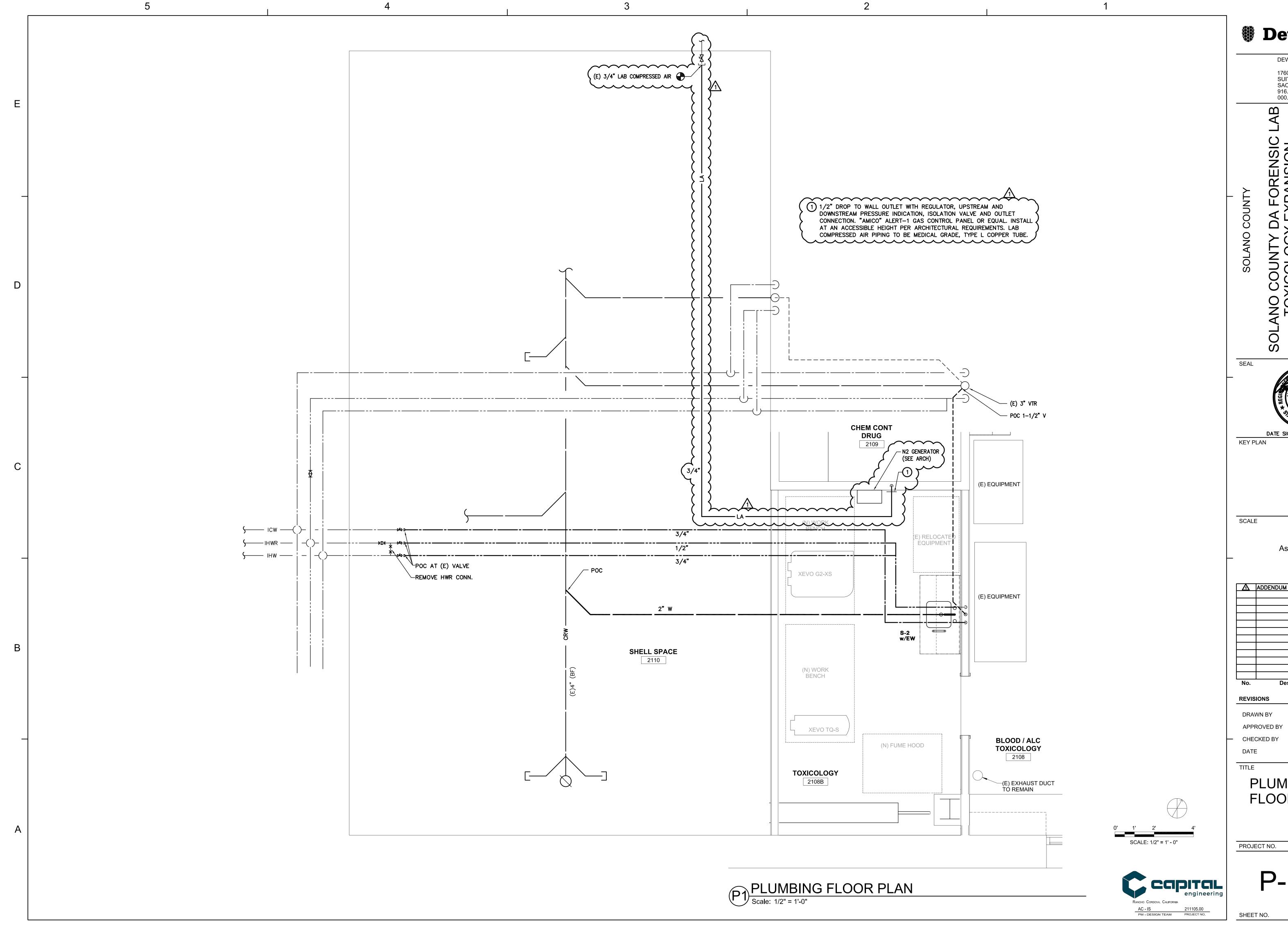


As indicated



LEGEND, SCHEDULE & NOTES

PROJECT NO. 50137033



QC INI %

Dewberry

DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax

DATE SIGNED: 4/5/22

As indicated

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APRIL 05, 2022

**PLUMBING** FLOOR PLAN

50137033

#### **GENERAL NOTES**

THE CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS BEFORE BIDDING.

THE FACILITY SHALL REMAIN IN OPERATION DURING ALL PHASES OF WORK. WHERE SYSTEM SHUTDOWNS AND POWER OUTAGES ARE UNAVOIDABLE, SUCH WORK SHALL BE SCHEDULED WITH THE FACILITY MANAGER AND SHALL OCCUR AT SUCH TIMES AS TO CAUSE THE LEAST DISRUPTION OF NORMAL FACILITY FUNCTIONS. INCLUDE ALL PREMIUM LABOR IN BID PROPOSAL TO COVER WORK REQUIRED TO BE PERFORMED BEFORE OR AFTER "NORMAL" WORKING HOURS.

COORDINATE SEQUENCE OF WORK WITH OWNER. MAKE ALL NECESSARY CONNECTIONS AS REQUIRED TO MAINTAIN POWER DURING THE STAGES OF WORK.

EXISTING DEVICES SHOWN WERE TAKEN FROM EXISTING DRAWINGS (NOT "AS BUILT" DRAWINGS) AND LIMITED SITE SURVEYS AND MAY NOT BE EXACTLY AS SHOWN. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.

REFER TO THOSE DRAWINGS SHOWING OTHER WORK, AND COORDINATE PLACEMENT OF WORK WITH THAT OF OTHER TRADES. REPORT ANY CONFLICT TO ARCHITECT PRIOR TO INSTALLING WORK. ADJUST WORK AS DIRECTED BY ARCHITECT.

EXISTING DEVICES SHOWN WITH INCOMPLETE, OR WITHOUT BRANCH CIRCUITRY WHERE INSTALLED AND/OR ALTERED BY OWNER. CONTRACTOR SHALL RELOCATE EXISTING BRANCH CIRCUITRY AND MAKE ALL NECESSARY RECONNECTIONS AS REQUIRED TO FACILITATE REMODEL. VERIFY ALL WORK REQUIRED ON THE JOB AND RECORD ON RECORD DRAWINGS.

CORE DRILL EXISTING WALLS AND FLOORS AS REQUIRED TO FACILITATE CONDUIT INSTALLATION. SEAL ALL PENETRATIONS WATER AND SMOKE TIGHT AND IN CONFORMANCE WITH CBC SECTION 714.1 AND C.E.C. 300.21. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE OSHPD FIRE MARSHAL. NO REBAR SHALL BE CUT DURING CORE DRILL OPERATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NEW FIRE STOPPING OF ALL NEW OR EXISTING CONDUIT OR CABLE PENETRATIONS IN NEW OR EXISTING FIRE RATED WALLS WITHIN THE LIMITS OF WORK.

REMOVE AND REINSTALL EXISTING LIGHT FIXTURES AS REQUIRED TO FACILITATE INSTALLATION OF WORK OF OTHER TRADES UNDER THIS PROJECT. VERIFY ALL WORK REQUIRED ON THE JOB.

ALL EQUIPMENT INSTALLED OR CONNECTED BY THE CONTRACTOR SHALL BE LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

UNLESS OTHERWISE INDICATED, ALL 20 AMP 120 OR 277 VOLT BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS.

#### **DEMOLITION NOTES**

DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION 9. IMMEDIATELY REPORT (NOTIFY IN WRITING) TO THE AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION.

DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL.

PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. ANY FIRE RESISTANCE RATED CONSTRUCTION DAMAGED DURING THE SCOPE OF WORK SHALL BE REPAIRED TO MATCH THE EXISTING RATED CONDITION PER 2016 CFC SECTION 703.1.

REMOVE EXPOSED ABANDONED WIRE AND CABLE. PATCH SURFACES WHERE REMOVED CABLES PASS THROUGH BUILDING FINISHES.

DISCONNECT ABANDONED CIRCUITS, OUTLETS AND REMOVE CIRCUIT DEVICES, WIRE AND CABLE. REMOVE ABANDONED BOXES, OUTLETS IF RACEWAY, WIRE AND CABLE SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED BOXES WHICH ARE NOT REMOVED.

ENSURE ACCESS TO EXISTING BOXES. WIRING CONNECTIONS AND OTHER INSTALLATIONS WHICH ARE TO REMAIN ACTIVE AND WHICH REQUIRE ACCESS. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

#### **TELECOM GENERAL NOTES**

- THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE AND DEFINE TYPICAL GRAPHIC SYMBOLS AND SYSTEMS OF GRAPHIC SYMBOLS WHICH MAY OCCUR ON THE DRAWINGS. THE ILLUSTRATION OF A SYMBOL OR SYSTEM OF SYMBOLS ON THIS SHEET DOES NOT NECESSARILY INDICATE THAT THE BUILDING ITEM OF SYSTEM DESCRIBED BY THE SYMBOL IS USED AS PART OF THIS PROJECT. REFER TO THE PLANS TO DETERMINE THE SCOPE OF WORK.
- THE WORK INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC., - MUST COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING LAWS, ORDINANCES, AND REGULATIONS OF ALL FEDERAL, STATE, DISTRICT, AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT, AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING LAW, ORDINANCE, OR REGULATION.
- 3. THE DRAWINGS ARE PART OF A LARGER SET OF ARCHITECTURAL DRAWINGS THAT, AS A COMPLETE SET, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS". THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK AND REQUIREMENTS DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR. MANAGE SUPERVISE, REVIEW, AND COORDINATE THE WORK OF SUB-CONTRACTORS, TRADES, AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION. ENSURE ALL TRADES ARE AWARE OF REQUIREMENTS WHICH MAY AFFECT THE WORK OR ANOTHER TRADE.
- THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF EXPOSED ELEMENTS OF THE WORK OF TRADES, INCLUDING THAT WORK THAT IS ILLUSTRATED PRIMARILY ON THESE DRAWINGS. LOCATIONS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT OF DEVICES UNLESS OTHERWISE NOTED.
- 5. ALL NEW CABLING, WALL PLATES, AND JACKS SHALL MATCH THE EXISTING TELECOMMUNICATIONS SYSTEM TYPE AND COLORS.
- 6. SUPPORT ALL NEW CABLING ON EXISTING OR NEW CABLE SUPPORT SYSTEMS.
- PROVIDE NECESSARY EQUIPMENT AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM THAT MEETS INTENDED DESIGN WHETHER EXPRESSLY SPECIFIED OR NOT.
- MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES FOR THE PURPOSE USED AND SHALL BEAR THEIR LABEL.
- OWNER/ARCHITECT OBSERVATIONS OR CONDITIONS THAT ARE DISCOVERED THAT WOULD PREVENT INSTALLATION ACCORDING TO DRAWINGS AND/OR SPECIFICATIONS PRIOR TO WORK BEING PERFORMED.
- 10. REMOVE ABANDONED CABLING AND LEFT OVER CONDUIT. WIRE, SCAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM WORK.
- 11. ALL NEW CABLING, WALL PLATES, AND JACKS SHALL MATCH THE EXISTING TELECOMMUNICATIONS SYSTEM TYPE AND

|   |                 | STANDARD ELECTRICAL SYMBOLS   |   | STA                   |
|---|-----------------|---|---|-----------------------|
|   | SYMBOL          | DESCRIPTION   | SYMBOL  | DESCRIPT              |
|   | 0               | JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.   |   | RECESSE               |
|   |                 | TELEPHONE/DATA OUTLET, 4 11/16" SQUARE X 2 1/8" DEEP BOX WITH 1-DEVICE RING<br>AND PLATE. MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF BOX. STUB 1.25"C 6"   | <u>B</u>  | LUMINAIR              |
|   | lacksquare      | INTO ACCESSIBLE CEILING SPACE WITH A 18" RADIUS BEND. TERMINATE WITH INSULATING BUSHING. INSTALL A QUANTITY OF (3) CATEGORY 6 CABLES UON.   | S   | SINGLE P              |
|   | WP              | WEATHERPROOF, DAMP OR WET LOCATION AS REQUIRED.   | S <sub>a</sub> S <sub>p</sub><br>S <sub>k</sub> S <sub>mc</sub> | SWITCH S<br>mc = MOM  |
|   | AFF             | ABOVE FINISHED FLOOR.   |   | SINGLE LE             |
|   | (E)             | EXISTING.   |   | FINISHED              |
|   | (N)             | NEW.  | <u>(0S)</u>   | AUTOMAT               |
|   | (D)             | DEMOLISH.   |   | MATCH EX              |
|   | (R)             | RELOCATE.   |   | BRANCH                |
| F | (ER)            | EXISTING RELOCATED IN LOCATION SHOWN.   |   | BRANCH                |
| • | ⟨XX⟩            | NUMBERED NOTE.  | <b>→</b>  | 20 AMP 12<br>FLOOR TO |
|   |                 | RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.  |   | 20 AMP 12             |
|   |                 | RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.  | <del></del>   | FINISHED              |
|   | *· <del>*</del> | EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED.   | #   | 20 AMP 12<br>FLOOR TO |
|   | _·-             | EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.  | ⊳   | 20AMP, 12             |
|   | -               | ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.   |   | FLOOR TO              |
|   |                 | BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.   |   |                       |
|   | #               | STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR. |   |                       |
|   | #10             | BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.   |   |                       |
|   | #10             | BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.                                    |   |                       |

|                       | STANDARD ELECTRICAL SYMBOLS  |   | STANDARD ELECTRICAL SYMBOLS   |
|-----------------------|--|---|---|
| SYMBOL                | DESCRIPTION  | SYMBOL  | DESCRIPTION   |
| 0                     | JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.  |   | RECESSED MOUNTED LUMINAIRE.   |
|                       | TELEPHONE/DATA OUTLET, 4 11/16" SQUARE X 2 1/8" DEEP BOX WITH 1-DEVICE RING  | <u>B</u>  | LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.   |
| $lackbox{lack}{lack}$ | AND PLATE. MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER OF BOX. STUB 1.25"C 6" INTO ACCESSIBLE CEILING SPACE WITH A 18" RADIUS BEND. TERMINATE WITH INSULATING BUSHING. INSTALL A QUANTITY OF (3) CATEGORY 6 CABLES UON. | S   | SINGLE POLE TOGGLE SWITCH, MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.  |
| WP                    | WEATHERPROOF, DAMP OR WET LOCATION AS REQUIRED.  | S <sub>a</sub> S <sub>p</sub><br>S <sub>k</sub> S <sub>mc</sub> | SWITCH SUBSCRIPTS; a,b,c = DEVICE CONTROL, p = PILOT LIGHT, k = KEYED, mc = MOMENTARY CONTACT.                                  |
| AFF                   | ABOVE FINISHED FLOOR.  |   | SINGLE LEVEL, DIGITAL DIMMING SWITCH, 0-10V DIMMING, WALL MOUNTED +44" ABOVE  |
| (E)                   | EXISTING.  |   | FINISHED FLOOR TO CENTER OF BOX. MATCH EXISTING.  |
| (N)                   | NEW.   | 03)   | AUTOMATIC "ON", CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.   |
| (D)                   | DEMOLISH.  |   | MATCH EXISTING.   |
| (R)                   | RELOCATE.  | _   | BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.   |
| (ER)                  | EXISTING RELOCATED IN LOCATION SHOWN.  | _   | BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.   |
| ⟨XX⟩                  | NUMBERED NOTE.   | <b>→</b>  | 20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX.                               |
|                       | RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.   |   | 20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE. MOUNTED +18" ABOVE   |
|                       | RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.   | <del> </del>  | FINISHED FLOOR TO CENTER OF BOX.  |
| *· <del>*</del>       | EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED.  | #   | 20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE, MOUNTED +18" ABOVE FINISHED FLOOR TO CENTER OF BOX WITH GROUND FAULT INTERRUPTER. |
|                       | EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.   | <b>&gt;</b>   | 20AMP, 120/208V, 3PH, 5W NEMA L21-20P RECEPTACLE, MOUNTED +18" ABOVE FINISHED   |
| <b>←</b>              | ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.  | ]   | FLOOR TO CENTER OF BOX.   |
|                       | BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT   | ]   |   |

|       | SHEET INDEX                                |
|-------|--|
| SHEET | DESCRIPTION                                |
| E001  | SYMBOLS LIST, NOTES, SHEET INDEX           |
| E002  | TITLE 24                                   |
| E003  | TITLE 24                                   |
| E101A | OVERALL SECOND FLOOR PLAN - ELECTRICAL     |
| E101B | PARTIAL SECOND FLOOR PLAN - LIGHTING       |
| E101C | PARTIAL SECOND FLOOR PLAN - POWER & SIGNAL |
| E200  | PARTIAL ONE LINE DIAGRAM & PANEL SCHEDULES |
| E300  | DETAILS                                    |

**ECOM** 

1455 RESPONSE ROAD, SUITE 140 SACRAMENTO, CA. 95815 916.641.5600 916.641.1640 FAX WWW.ECOMENG.COM

JOB NO. **21-P170.00** PM. **MS** 

DESIGNERS **ECOM** DRAWN BY **ECOM** 



DEWBERRY ARCHITECTS, INC. 1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone

000.000.0000 Fax

8

**KEY PLAN** 

SEAL

SCALE

Description

**REVISIONS DRAWN BY** APPROVED B CHECKED B APRIL 05, 2022 DATE

TITLE SYMBOLS LIST, NOTES, SHEET INDEX

PROJECT NO.

50137033

SHEET NO.

|     | L  | JMINAIRE SCHEDULE |          |      |       |       |         |
|-----|--|-------------------|----------|------|-------|-------|---------|
| TAG | MANUFACTURER & CATALOG NUMBER              | DESCRIPTION       | MTG.     | LAMP | VOLTS | WATTS | REMARKS |
| Α   | LEDALITE<br>33-24-D1-ST-L-835-60-A-7-D-E-N | 2X4 LED TROFFER   | RECESSED | LED  | 277   | 45.4  |         |

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E (Created 01/20) CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path. Project Name: DA FORENSIC LAB EXPANSION Report Page: Page 1 of 6 Project Address: 2201 COURAGE DRIVE, FAIRFIELD, CA 94533 Date Prepared: 11/04/21 A. GENERAL INFORMATION 01 Project Location (city) FAIRFIELD 04 Total Conditioned Floor Area (ft<sup>2</sup>) 170 02 Climate Zone 05 Total Unconditioned Floor Area (ft<sup>2</sup>) 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) Office Retail Warehouse Hotel/Motel School Support Areas Parking Garage High-Rise Residential Relocatable Healthcare ✓ Other (write in): FORENSIC LAB **B. PROJECT SCOPE** Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As". Scope of Work Conditioned Spaces Unconditioned Spaces My Project Consists of (check all that apply): Calculation Method Calculation Method Area (ft<sup>2</sup>) Area (ft<sup>2</sup>) New Lighting System ✓ Altered Lighting System Area Category Total Area of Work (ft<sup>2</sup>) C. COMPLIANCE RESULTS Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Allowed Lighting Power per §140.6(b) (Watts) Adjusted Lighting Power per §140.6(a) (Watts) | Compliance Results Lighting in 03 04 08 09 conditioned and Adjustments unconditioned Area Category Tailored Total Adjusted PAF Control spaces must not Area Category | Additional Building §140.6(c)3 Designed Credits 05 Must be ≥ 08 Total Allowed (Watts) be combined for §140.6(c)2 §140.6(c)2G §140.6(c)1 (Watts) §140.6(a)2 (Watts) \*Includes §140.6 compliance per (-) Adjustments §140.6(b)1. (See Table F) (See Table P) (See Table I) (See Table I) (See Table J) (See Table K) Conditioned: 170 170 117.2 117.2 COMPLIES Unconditioned: **Table Continued** 

January 2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <a href="http://www.energy.ca.gov/title24/2019standards">http://www.energy.ca.gov/title24/2019standards</a>

| CEBLIEICVA  | reated 01/20)<br>FE OF COMPLIANCE  |  |  |  |   |  | C/   | ALIFORNIA ENERGY C                               |                            | N CC-LT     |  |  |
|---|--|--|--|--|---|--|--|--|----------------------------|-------------|--|--|
| Project Nar   |  | V  |  |  | Report Page:  |  |  |  |                            | ge 2 c      |  |  |
|   | dress: 2201 COURAGE DRIVE, FAIRF   |  |  |  | Date Prepared   | d:   |  |  |                            | L1/04       |  |  |
|   |  |  |  |  |   |  |  |  |                            |             |  |  |
|   |  |  | Date of S  |  | rols Compliance (S  |  | -  | COMPLI   | erema                      |             |  |  |
|   |  |  | Kated I  | ower Keauct  | ion Compliance (S   | ee Table Q for L   | Jetalis)   | Not Applic                                       | able                       |             |  |  |
| D. EXCEPT   | TONAL CONDITIONS   |  |  |  |   |  |  |  |                            |             |  |  |
| This table is   | s auto-filled with uneditable comme  | nts because of s   | elections made o   | r data entered   | l in tables through   | out the form.  |  |  |                            | <i>9</i> /4 |  |  |
| No exception  | onal conditions apply to this project.   |  |  |  |   |  |  |  |                            |             |  |  |
| . то схесри   | enal conditions apply to this project  | •  |  |  |   |  |  |  |                            |             |  |  |
| E ADDITIO   | ONAL REMARKS   |  |  |  |   |  |  |  |                            | N.          |  |  |
|   |  | annline at to th   | a Authority Harris   | a luniadistis  |   |  |  |  |                            | 4           |  |  |
| inis table ii   | ncludes remarks made by the permit   | applicant to th  | e Autnority Havin  | g Jurisaiction.  |   |  |  |  |                            |             |  |  |
|   |  |  |  |  |   |  |  |  |                            |             |  |  |
|   |  |  |  |  |   |  |  |  |                            |             |  |  |
|   |  |  |  |  |   |  |  |  |                            |             |  |  |
|   | R LIGHTING FIXTURE SCHEDULE  |  |  |  |   |  |  |  |                            |             |  |  |
|   | uctions: Include all permanent desig   | ned lighting and   | l all portable light   | ing in offices.  |   |  |  |  |                            |             |  |  |
| Participation of the Control of the | Vattage: Conditioned Spaces  | 1  |  |  |   |  |  | T  |                            |             |  |  |
|   | 01 02 03 04 05 06 07 08 09 10  |  |  |  |   |  |  |  |                            |             |  |  |
|   | 02   |  |  |  |   |  |  |  |                            |             |  |  |
| 01<br>Name or   |  | Modular  | Small Aperture   | Watts per  | How Wattage is  | Total number   | Exempt per   | Design Watts                                     | Field In                   | spect       |  |  |
| 01  | 02 Complete Luminaire Description  | Modular  | Small Aperture<br>& Color Change <sup>1</sup>                  | Watts per<br>luminaire <sup>2</sup>                                    | How Wattage is determined   | Total number luminaires  | Exempt per §140.6(a)3  | Design Watts                                     | Field In<br>Pass           | -           |  |  |
| 01<br>Name or   |  | Modular  | 2.50   |  |   |  |  | Design Watts                                     |                            | -           |  |  |
| 01<br>Name or<br>Item Tag   | Complete Luminaire Description   | Modular  | 2.50   | luminaire <sup>2</sup>   | determined  Mfr. Spec <sup>2</sup>  | luminaires   | §140.6(a)3   | 117.2  |                            | -           |  |  |
| 01<br>Name or<br>Item Tag   | Complete Luminaire Description   | Modular  | 2.50   | luminaire <sup>2</sup>   | determined  Mfr. Spec <sup>2</sup>  | luminaires<br>2  | §140.6(a)3   | 117.2  |                            | -           |  |  |
| 01<br>Name or<br>Item Tag<br>A  | Complete Luminaire Description  2X4 LED TROFFER  | Modular<br>(Track) Fixture   | & Color Change <sup>1</sup>                                    | luminaire <sup>2</sup><br>58.6   | Mfr. Spec <sup>2</sup> Total Designed   | luminaires 2 d Watts CONDIT                                      | §140.6(a)3   | 117.2<br>: <b>117.2</b>                          | Pass                       | Fa          |  |  |
| 01 Name or Item Tag A   | Complete Luminaire Description   | Modular<br>(Track) Fixture   | & Color Change <sup>1</sup>                                    | luminaire <sup>2</sup> 58.6 ich qualify pel                            | Mfr. Spec <sup>2</sup> Total Designed   | luminaires 2 d Watts CONDIT                                      | §140.6(a)3   | 117.2<br>: <b>117.2</b>                          | Pass                       | Fai         |  |  |
| 01 Name or Item Tag A  1 FOOTNOT makes this   | Complete Luminaire Description  2X4 LED TROFFER  E: Design Watts for small aperture of adjustment, the permit applicant sh   | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fai         |  |  |
| 01 Name or Item Tag A  1 FOOTNOT makes this 2 Authority   | Complete Luminaire Description  2X4 LED TROFFER  E: Design Watts for small aperture of   | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fai         |  |  |
| 01 Name or Item Tag A  1 FOOTNOT makes this 2 Authority   | Complete Luminaire Description  2X4 LED TROFFER  E: Design Watts for small aperture of adjustment, the permit applicant ship Having Jurisdiction may ask for Lum   | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fai         |  |  |
| Name or Item Tag  A  1 FOOTNOT makes this 2 Authority luminaire,  | Complete Luminaire Description  2X4 LED TROFFER  E: Design Watts for small aperture of adjustment, the permit applicant ship Having Jurisdiction may ask for Lum   | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fa          |  |  |
| Name or Item Tag  A  1 FOOTNOT makes this 2 Authority luminaire, 1  | Complete Luminaire Description  2X4 LED TROFFER  TE: Design Watts for small aperture of adjustment, the permit applicant ship Having Jurisdiction may ask for Luminot the lamp.  LAR LIGHTING SYSTEMS                    | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fa          |  |  |
| Name or Item Tag  A  1 FOOTNOT makes this 2 Authority luminaire, 1  | Complete Luminaire Description  2X4 LED TROFFER  TE: Design Watts for small aperture of adjustment, the permit applicant ship Having Jurisdiction may ask for Luminot the lamp.  | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fa          |  |  |
| Name or Item Tag  A  1 FOOTNOT makes this 2 Authority luminaire, 10 MODU  This Section  | Complete Luminaire Description  2X4 LED TROFFER  TE: Design Watts for small aperture of adjustment, the permit applicant ship Having Jurisdiction may ask for Luminot the lamp.  LAR LIGHTING SYSTEMS  In Does Not Apply | Modular (Track) Fixture  | & Color Change <sup>1</sup> ing luminaires whated wattage in c | luminaire <sup>2</sup> 58.6  ich qualify percolumn 05.                 | Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is ad                                  | luminaires  2 d Watts CONDIT                                     | §140.6(a)3  CONED SPACES: 6 of their rated                   | 117.2<br>: 117.2<br>wattage. Table I             | Pass                       | Fa          |  |  |
| Name or Item Tag  A  1 FOOTNOT makes this 2 Authority luminaire, 10 MODU This Section  H. INDOO   | Complete Luminaire Description  2X4 LED TROFFER  TE: Design Watts for small aperture of adjustment, the permit applicant ship Having Jurisdiction may ask for Luminot the lamp.  LAR LIGHTING SYSTEMS                    | Modular (Track) Fixture  and color change ould enter full r inaire cut sheet | & Color Change <sup>1</sup>                                    | luminaire <sup>2</sup> 58.6  ich qualify per column 05. age used for c | determined  Mfr. Spec <sup>2</sup> Total Designed  r §140.6(a)4B is an accompliance per §13 | luminaires  2 d Watts CONDIT  ljusted to be 75%  30.0(c) Wattage | §140.6(a)3  IONED SPACES  6 of their rated  used must be the | 117.2  117.2  wattage. Table in the maximum rate | Pass  F automa  ed for the | tically     |  |  |

|   | PLIANCE  |   |                                   |  |                               |                    | ORNIA ENERGY          |              | IRCC-LTI- |
|---|--|---|-----------------------------------|--|-------------------------------|--------------------|-----------------------|--------------|-----------|
|   | ORENSIC LAB EXPANSION  |   |                                   | Report Page:                             |                               |                    |                       | Р            | age 3 of  |
| roject Address: 220   | 1 COURAGE DRIVE, FAIRFIELD, CA 94533   | 3   |                                   | Date Prepared:                           |                               |                    |                       |              | 11/04/2   |
| uilding Level Contro  | ls   | 70-   |                                   |  |                               |                    | A11                   |              |           |
|   | 01   |   |                                   |  | 03                            |                    |                       |              |           |
|   | Mandatory Demand Response  |   |                                   |  | Field Inspect                 |                    |                       |              |           |
|   | §110.12(c)   |   |                                   |  | Pass                          | Fail               |                       |              |           |
|   |  |   |                                   |  |                               |                    |                       |              |           |
| rea Level Controls  |  | 400   |                                   | -  |                               |                    |                       |              |           |
| 04  | 05   | 06  | 07                                | 08                                       | 09                            | 10                 | 11                    |              | 12        |
| Area Description  | Complete Building or Area Category   | Area Controls   | Multi-Level<br>Controls           | Shut-Off<br>Controls                     | Primary/Skylit<br>Daylighting | Daylighting        | Interlocke<br>Systems | Field I      | nspector  |
|   | Primary Function Area  | §130.1(a)   | §130.1(b)                         | §130.1(c)                                | §130.1(d)                     | §140.6(d)          | §140.6(a):            | Pass         | Fail      |
| TOXICOLOGY  | Laboratory Area a Scientific   | Manual ON/<br>Manual ON/OFF<br>OFF  | Dîmmeer                           | Occ.:Sensor                              | NAA                           | N <b>A</b> A       |                       |              |           |
| NOTES: Controls with  | n a * require a note in the space below o  | evolaining how con  | nnliance is achiev                | led Led                                  |                               | 1                  | 3                     |              |           |
| :X: Conference 1: Prin  | nary/Skylight Daylighting: Exempt becau  | ico loce than 1 /// w   |                                   |  |                               |                    |                       |              |           |
| EXCEPTION 1 to §130.  |  | 136 1633 MUN 120 W  | atts of general li                | gnting;                                  | PI                            | an Sheet Show      | ring Daylit Zo        | ones:        |           |
| EXCEPTION 1 to §130.  | 1(d)2  |   |                                   |  | PI                            | an Sheet Show      | ring Daylit Zo        | ones:        | ি         |
| . LIGHTING POWER  |  | G OR AREA CATE  | GORY METHOD                       | os .                                     |                               |                    |                       |              | ver 2     |
| . LIGHTING POWER<br>Table Instructions: Con<br>Illowances per <u>§140.6</u>                             | ALLOWANCE: COMPLETE BUILDING mplete the table for each area complyin   | G OR AREA CATE  | GORY METHOD                       | os .                                     |                               |                    |                       |              |           |
| . LIGHTING POWER  | ALLOWANCE: COMPLETE BUILDING mplete the table for each area complyin   | G OR AREA CATE  | GORY METHOD                       | os .                                     |                               |                    |                       |              |           |
| . LIGHTING POWER<br>Table Instructions: Con<br>Illowances per <u>§140.6</u><br>Conditioned Spaces       | ALLOWANCE: COMPLETE BUILDING mplete the table for each area complyin f(c) or adjustments per §140.6(a) are be                  | G OR AREA CATE<br>g using the Comple<br>ing used.<br>02<br>Building or Area Cat | GORY METHOD<br>ete Building or Ar | os<br>ea Category Metho                  | 04 Area                       | ). Indicate if ac  | dditional ligh        | oting pow    | nces /    |
| . LIGHTING POWER<br>Table Instructions: Con<br>Illowances per <u>§140.6</u><br>Conditioned Spaces<br>01 | ALLOWANCE: COMPLETE BUILDING mplete the table for each area complyin f(c) or adjustments per §140.6(a) are be                  | G OR AREA CATE<br>g using the Comple<br>ing used.<br>02                         | GORY METHOD<br>ete Building or Ar | os<br>ea Category Metho<br>03<br>Allowed | ods per <u>§140.6(b)</u>      | 05 Allowed Wattage | Additional light      | 06 al Allowa | nces /    |
| . LIGHTING POWER Table Instructions: Confidences per §140.6 Conditioned Spaces                          | ALLOWANCE: COMPLETE BUILDING mplete the table for each area complyin f(c) or adjustments per §140.6(a) are be  Complete E Prim | G OR AREA CATE<br>g using the Comple<br>ing used.<br>02<br>Building or Area Cat | GORY METHOD<br>ete Building or Ar | 03 Allowed Density                       | 04 Area                       | 05 Allowed Wattage | dditional ligh        | 06 al Allowa | nces /    |

| RCC-LTI-E (Created 01/20) ERTIFICATE OF COMPLIANCE roject Name: DA FORENSIC LAB EXPANSION | CALIFORNIA ENERGY COMMISSION NRCC  |
|---|--|
|   |  |
|   | Report Page: Page  |
| roject Address: 2201 COURAGE DRIVE, FAIRFIELD, CA 94533                                   | Date Prepared: 11/   |
| TAILORED METHOD CENERAL LICUTING DOWER ALLOWANCE  |  |
| K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This Section Does Not Apply           |  |
|   |  |
| . ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY                                    |  |
| his Section Does Not Apply  |  |
| A. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHT                           | ING  |
| his Section Does Not Apply  |  |
| I. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL                             | FFECTC   |
| his Section Does Not Apply  | EFFECIS  |
|   |  |
| D. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCH                            | ANDISE   |
| his Section Does Not Apply  |  |
| P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMEN                             | T FACTOR (PAF))  |
| his Section Does Not Apply  | **************************************   |
| Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS                                       |  |
| his Section Does Not Apply  |  |
|   |  |
| 8. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS                               |  |
| his Section Does Not Apply  |  |
| . DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)   |  |
| his Section Does Not Apply  |  |
| . DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION                                    |  |
|   | ous tables of this document. If any selection needs to be changed, please explain why in |
| able E. Additional Remarks. These documents must be provided to the building insp         |  |
| tle24/2019standards/2019 compliance documents/Nonresidential Documents/N                  |  |



DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE
SUITE 200
SACRAMENTO, CA 95833

SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax

NSION
VE

SOLANO COUNTY
OUNTY DA FORE
OLOGY EXPAN

2201 COURAG 2ND FLOOR DISTRICT / FAIRFIELD, C,

SEAL

PROFESSION

BENJAMIN
SCHLENKER

No. E 021982

Exp. 9/30/23

ELECTRICAL

STATE OF CALIFORNIA

SCALE

No. Description Date

REVISIONS

DRAWN BY

ER

TITLE

APRIL 05, 2022

APPROVED BY

CHECKED BY

DATE

SHEET NO.

ECON ENGINEERING 1455 RESPONSE ROAD, SUITE 140 SACRAMENTO, CA. 95815 916.641.5600 916.641.1640 FAX

JOB NO. 21-P170.00 PM. MS
DESIGNERS ECOM
DRAWN BY

PROJECT NO. 50137033

TITLE 24

E002

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E (Created 01/20) CERTIFICATE OF COMPLIANCE Project Name: DA FORENSIC LAB EXPANSION Report Page: Page 5 of 6 Project Address: 2201 COURAGE DRIVE, FAIRFIELD, CA 94533 Date Prepared: 11/04/21 Field Inspector YES NO Form/Title Pass Fail NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference 0 room, a multipurpose room, or a theater to be recognized for compliance. NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <a href="http://www.energy.ca.gov/title24/attcp/providers.html">http://www.energy.ca.gov/title24/attcp/providers.html</a> Field Inspector YES Form/Title Pass Fail NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. NRCA-LTI-03-A - Must be submitted for automatic daylight controls. NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).

January 2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <a href="http://www.energy.ca.gov/title24/2019standards">http://www.energy.ca.gov/title24/2019standards</a>

| IRCC-LTI-E (Created 01/20)   |  |   | CALIFORNIA ENERGY CO   | mmission 👑                               |
|--|--|---|--|--|
| CERTIFICATE OF COMPL   |  |   |  | NRCC-LTI-E                               |
|  | DRENSIC LAB EXPANSION  | Report Page:  |  | Page 6 of 6                              |
| Project Address: 2201  | COURAGE DRIVE, FAIRFIELD, CA 94533   | Date Prepared:  |  | 11/04/21                                 |
| DOCUMENTATION A  | UTHOR'S DECLARATION STATEMENT  |   |  | ?  |
| certify that this Certifi  | cate of Compliance documentation is accurate and con   | nplete  |  |  |
| Documentation Author   | Name: BEN SCHLENKER  | Documentation Author S  | ignature:  |  |
| Company:   | ECOM ENGINEERING, INC  | Signature Date:   | 11/04/21   |  |
| Address:   | 1455 RESPONSE ROAD, SUITE 140  | CEA/ HERS Certification I   | dentification (if applicable):   |  |
| City/State/Zip:  | SACRAMENTO / CA / 95815  | Phone:  | (916) 641-5600   |  |
|  |  |   |  |  |
| Certificate of Compliance  The building design to compliance docume  I will ensure that a compliance to the enforcement documentation the  | and performance specifications, materials, componer iance conform to the requirements of Title 24, Part 1 a features or system design features identified on this Conts, worksheets, calculations, plans and specifications completed signed copy of this Certificate of Compliance agency for all applicable inspections. I understand that builder provides to the building owner at occupancy.  | and Part 6 of the California Code of<br>Certificate of Compliance are consists<br>submitted to the enforcement age<br>the shall be made available with the<br>lat a completed signed copy of this C   | Regulations.  tent with the information provided on other a ency for approval with this building permit app building permit(s) issued for the building, and certificate of Compliance is required to be inclu                  | pplicable<br>lication.<br>made available |
| 3. The energy features Certificate of Compli 4. The building design of compliance docume 5. I will ensure that a compliance to the enforcement documentation the Responsible Designer N                      | and performance specifications, materials, componer iance conform to the requirements of Title 24, Part 1 a features or system design features identified on this Conts, worksheets, calculations, plans and specifications completed signed copy of this Certificate of Compliance agency for all applicable inspections. I understand that builder provides to the building owner at occupancy.  BEN SCHLENKER   | and Part 6 of the California Code of Certificate of Compliance are consists submitted to the enforcement age to shall be made available with the lat a completed signed copy of this California Responsible Designer Signat                   | Regulations.  tent with the information provided on other a ency for approval with this building permit app building permit(s) issued for the building, and certificate of Compliance is required to be inclu                  | pplicable<br>lication.<br>made available |
| 3. The energy features Certificate of Compli 4. The building design of compliance docume 5. I will ensure that a compliance to the enforcement documentation the lacesponsible Designer Notes (Company):     | and performance specifications, materials, componer iance conform to the requirements of Title 24, Part 1 a features or system design features identified on this Conts, worksheets, calculations, plans and specifications completed signed copy of this Certificate of Compliance agency for all applicable inspections. I understand that builder provides to the building owner at occupancy.  BEN SCHLENKER  ECOM ENGINEERING, INC                                | and Part 6 of the California Code of Certificate of Compliance are consists submitted to the enforcement age to shall be made available with the lat a completed signed copy of this California Responsible Designer Signate Signed:          | Regulations. tent with the information provided on other a ency for approval with this building permit app building permit(s) issued for the building, and certificate of Compliance is required to be inclu nature:           | pplicable<br>lication.<br>made available |
| 3. The energy features Certificate of Compli 4. The building design of compliance docume 5. I will ensure that a compliance document documentation the life Responsible Designer National Company:  Address: | and performance specifications, materials, componer iance conform to the requirements of Title 24, Part 1 a features or system design features identified on this Conts, worksheets, calculations, plans and specifications completed signed copy of this Certificate of Compliance agency for all applicable inspections. I understand that builder provides to the building owner at occupancy.  BEN SCHLENKER  ECOM ENGINEERING, INC  1455 RESPONSE ROAD, SUITE 140 | and Part 6 of the California Code of Certificate of Compliance are consists submitted to the enforcement age e shall be made available with the lat a completed signed copy of this California Responsible Designer Signate Signed:  License: | Regulations.  tent with the information provided on other a ency for approval with this building permit app building permit(s) issued for the building, and certificate of Compliance is required to be inclunature:  E 021982 | pplicable<br>lication.<br>made available |
| 3. The energy features Certificate of Compli 4. The building design of compliance docume 5. I will ensure that a compliance to the enforcement documentation the lacesponsible Designer Notes (Company):     | and performance specifications, materials, componer iance conform to the requirements of Title 24, Part 1 a features or system design features identified on this Conts, worksheets, calculations, plans and specifications completed signed copy of this Certificate of Compliance agency for all applicable inspections. I understand that builder provides to the building owner at occupancy.  BEN SCHLENKER  ECOM ENGINEERING, INC                                | and Part 6 of the California Code of Certificate of Compliance are consists submitted to the enforcement age to shall be made available with the lat a completed signed copy of this California Responsible Designer Signate Signed:          | Regulations. tent with the information provided on other a ency for approval with this building permit app building permit(s) issued for the building, and certificate of Compliance is required to be inclu nature:           | pplicable<br>lication.<br>made available |



DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE SUITE 200
SACRAMENTO, CA 95833
916 239 7254 Phone

SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax

ON OITE

ITY DA FOREN OGY EXPANSI

2201 COURAG 2ND FLOOR DISTRICT / FAIRFIELD, C,

SEAL

PROFESSION

BENJAMIN
SCHLENKER

No. E 021982
EXP. 9/30/23
ELECTRICAL

KEY PLAN

SCALE

No. Description Date

REVISIONS

DRAWN BY ER
APPROVED BY EN
CHECKED BY TC
DATE APRIL 05, 2022

TITLE

TITLE 24

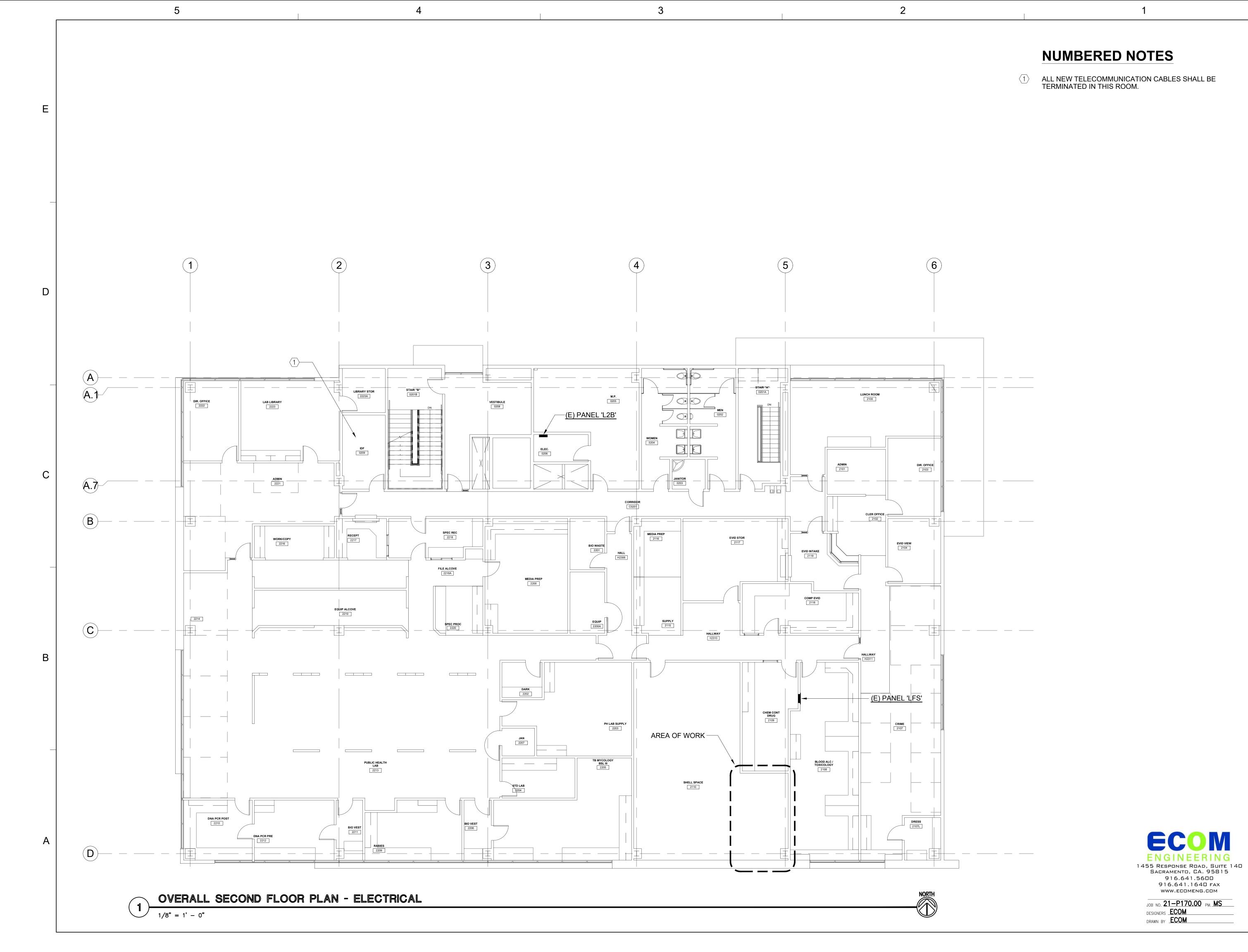
PROJECT NO. 50137033

E003

SHEET NO.



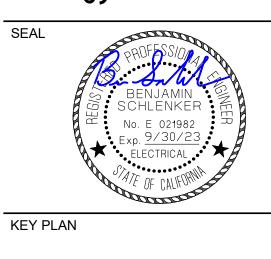
JOB NO. 21-P170.00 PM. MS
DESIGNERS ECOM
DRAWN BY



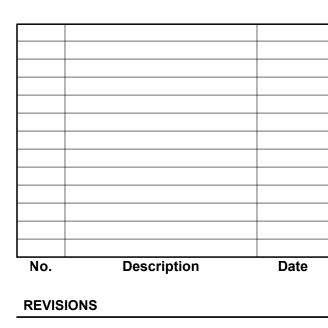


DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax



SCALE



DRAWN BY APPROVED B CHECKED BY APRIL 05, 2022

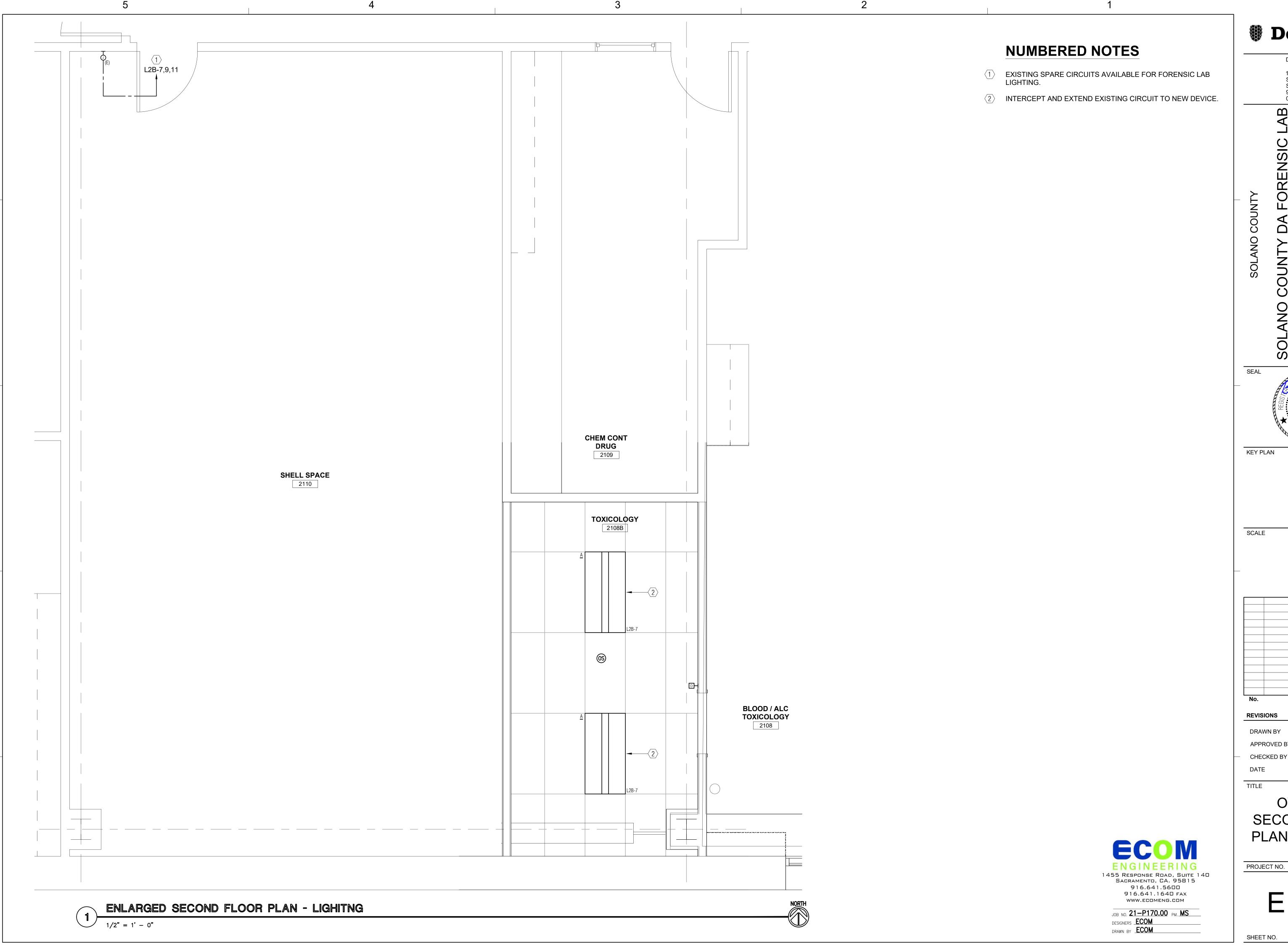
**OVERALL** SECOND FLOOR PLAN -ELECTRICAL

PROJECT NO.

E101A

50137033

SHEET NO.



# Dewberry

DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax

Description

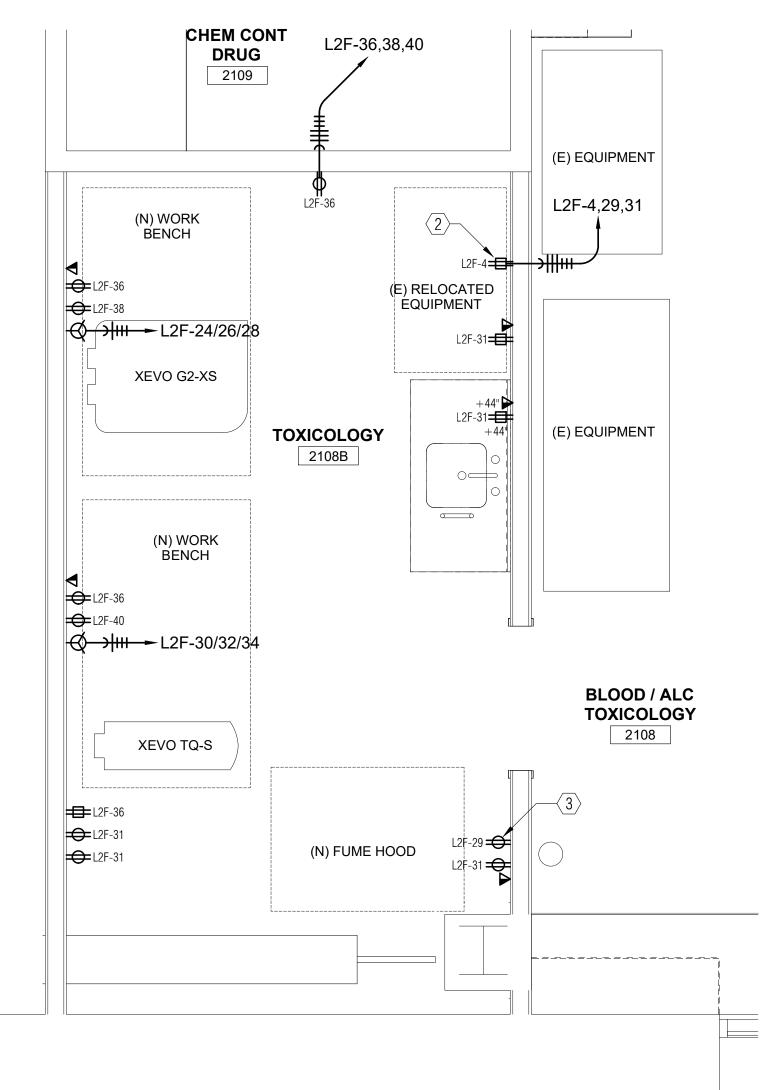
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OVERALL SECOND FLOOR PLAN - LIGHTING

E101B

50137033

**CHEM CONT** L2F-36,38,40 DRUG DRUG 2109 2109 (E) EQUIPMENT L2F-4,29,31 (N) WORK BENCH L2F-36 (E) RELOCATED EQUIPMENT <del>Ø →|III -</del> L2F-24/26/28 L2F-31 XEVO G2-XS L2F-8



ENLARGED SECOND FLOOR PLAN - POWER & SIGNAL

NORTH

SOURCE RUAD, SUITE 140
SAGRAMENTO, CA. 95815
916.641.1640 FAX
WWW.ECDMENG.COM

JOB NO. 21-P170.00 PM. MS

# **SHEET NOTES**

- 1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- 2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING RECEPTACLES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.

#### **NUMBERED NOTES**

- DEMO EXISTING DEVICE SERVING EXISTING EQUIPMENT TO BE RELOCATED. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW DEVICE TO SERVE RELOCATED EQUIPMENT.
- NEW DEVICE TO SERVE EXISTING RELOCATED EQUIPMENT. NO LOAD CHANGE.
- 3 NEW DEVICE TO SERVE NEW FUME HOOD.

Dewberry

DEWBERRY ARCHITECTS, INC.

1760 CREEKSIDE OAKS DRIVE

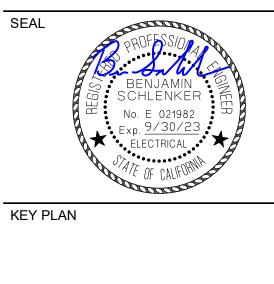
1760 CREEKSIDE OAKS DRI'SUITE 200
SACRAMENTO, CA 95833
916.239.7254 Phone

OUNTY DA FORENSI COLOGY EXPANSION

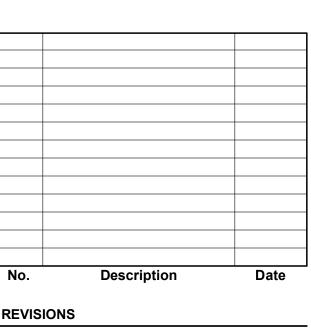
COUNTY

SOLANO

220 2ND FLOOR



SCALE



DRAWN BY ER
APPROVED BY EN
CHECKED BY TC
DATE APRIL 05, 2022

OVERALL
SECOND FLOOR
PLAN - POWER &
SIGNAL

PROJECT NO.

E101C

50137033

SHEET NO.

DESIGNERS **ECOM** 

DRAWN BY **ECOM** 

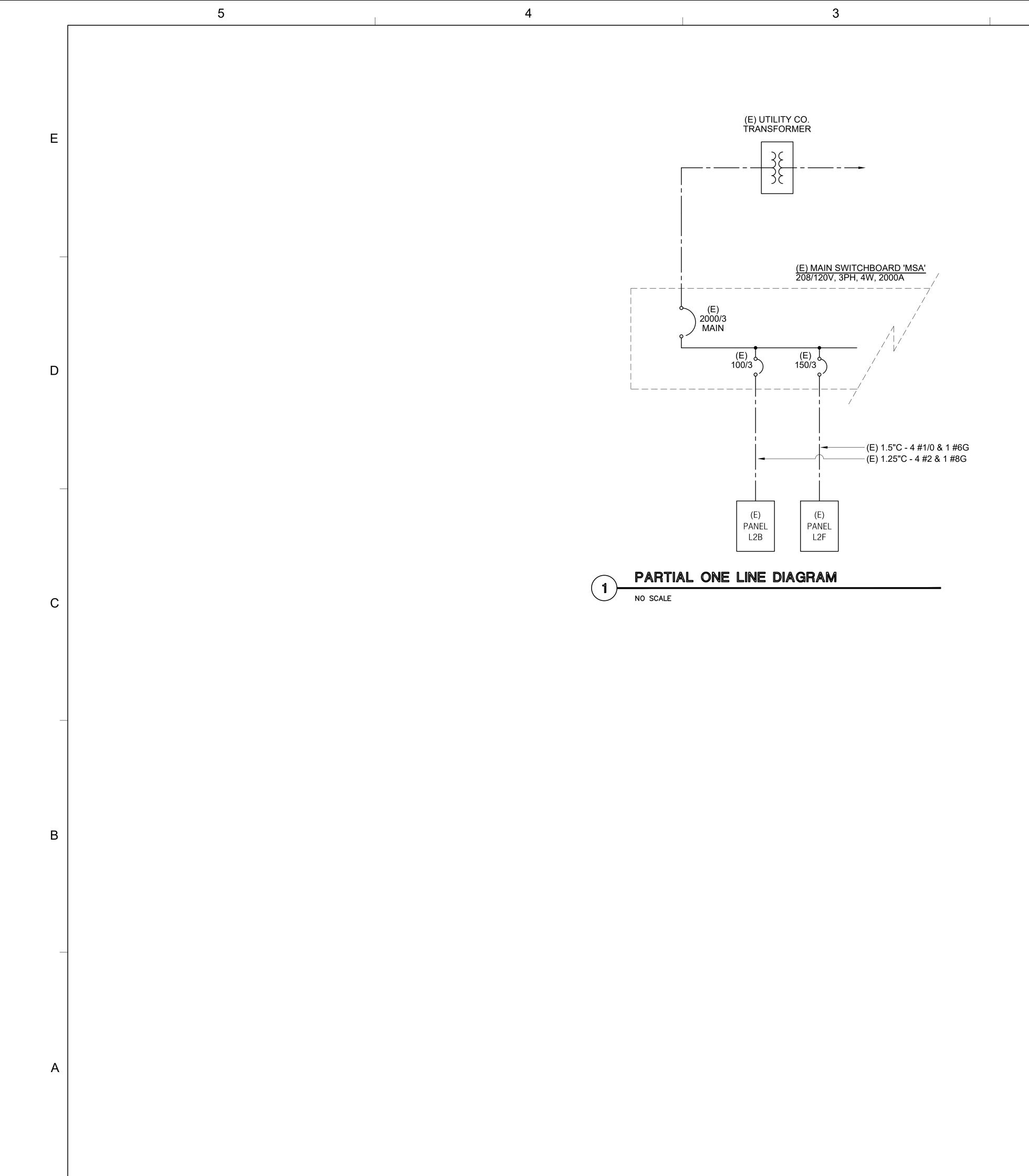


(E) L2F-6

BLOOD / ALC TOXICOLOGY 2108

SHELL SPACE

2110



|    | ATION: 2ND FLOOR ELECT R |              | KVA L | _OAD  |                  | C.     | B. | СКТ  | PH | + C  | KT | C.        | B.   |       | KVA   | _OAD   |       |                              | _   |
|----|--------------------------|--------------|-------|-------|------------------|--------|----|------|----|------|----|-----------|------|-------|-------|--------|-------|------------------------------|-----|
|    | LOAD DESCRIPTION         | CDNT.        | RECP. | MOTOR | NDN              | TRIP   |    |      |    |      |    | TRIP      | POLE | CONT. | RECP. | MOTOR  | NDN   | LOAD DESCRIPTION             | _   |
| 1  | EMERG/EGRESS LTG         | 1.00         |       |       |                  | 20     | 1  | 1    | *  |      | 2  | 20        | 1    | 0.60  |       |        |       | HALLWAYS, VESTIBULE          | á   |
| 3  | EMERG/EGRESS LTG         | 1.10         |       |       |                  | 20     | 1  | 3    | *  |      | 4  | 20        | 1    | 0.60  |       |        |       | HALLWAYS, VESTIBULE          |     |
| 5  | LCP-2A                   |              |       |       | 0.20             | 20     | 1  | 5    |    | *    | 6  | 20        | 1    | 0.50  |       |        |       | OFFICES                      | ŧ   |
| 7  | FORENSIC LAB LTG (1)     | 0.12         |       |       |                  | 20     | 1  | 7    | *  |      | 8  | 20        | 1    | 0.50  |       |        |       | OFFICES                      | 8   |
| 9  | FUTURE FORENSIC LAB LTG  |              |       |       |                  | 20     | 1  | 9    | *  |      | 10 | 20        | 1    | 1.60  |       |        |       | 2100, 2103, 2108, 2107L      | 1   |
| 11 | FUTURE FORENSIC LAB LTG  |              |       |       |                  | 20     | 1  | 11   |    | *    | 12 | 20        | 1    | 1.20  |       |        |       | 2104, 2109, 2117, 2110       |     |
| 13 | ROOF LTG                 |              |       |       |                  | 20     | 1  | 13   | *  |      | 14 | 20        | 1    |       |       |        |       | SPARE                        | 1   |
| 15 | SPARE                    |              |       |       |                  | 20     | 1  | 15   | *  |      | 16 | 20        | 1    | 1.50  |       |        |       | 2204, 2205, 2212             | 1   |
| 17 | SPARE                    |              |       |       |                  | 20     | 1  | 17   |    | *    | 18 | 20        | 1    | 1.40  |       |        |       | 2202, 03, 07, 00, 00A, 01    |     |
| 19 | SPARE                    |              |       |       |                  | 20     | 1  | 19   | *  | 6    | 20 | 20        | 1    | 1.10  |       |        |       | 2221, 2222, 2223, 2223A      | í   |
| 21 | SPARE                    |              |       |       |                  | 20     | 1  | 21   | *  | llá  | 22 | 20        | 1    | 0.70  |       |        |       | 2210, 2212                   | - 1 |
| 23 | SPARE                    |              |       |       |                  | 20     | 1  | 23   |    | * 6  | 24 | 20        | 1    | 1.50  |       |        |       | PH LAB 2213, 2216, 2216A, 23 | 2   |
| 25 | SPARE                    |              |       |       |                  | 20     | 1  | 25   | *  | 1 6  | 26 | 20        | 1    | 1.60  |       |        |       | PH LAB 2213, 2216, 2216A, 23 | 218 |
| 27 | SPARE                    |              |       |       |                  | 20     | 1  | 27   | *  | llá  | 28 | 20        | 1    | 0.80  |       |        |       | RESTRMS, IDF, MECH RM, JAN   | á   |
| 29 | SPARE                    |              |       |       |                  | 20     | 1  | 29   |    | * 3  | 30 | 20        | 1    |       |       |        |       | SPARE                        | ĺ   |
| 31 | SPACE                    |              |       |       |                  |        |    | 31   | *  |      | 32 | 20        | 1    |       |       |        |       | SPARE                        | ĺ   |
| 33 | SPACE                    |              |       |       |                  |        |    | 33   | *  |      | 34 | 20        | 1    |       |       |        |       | SPARE                        | ĺ   |
| 35 | SPACE                    |              |       |       |                  |        |    | 35   |    | * (  | 36 | 20        | 1    |       |       |        |       | SPARE                        | ĺ   |
| 37 | SPACE                    |              |       |       |                  |        |    | 37   | *  |      | 38 | 20        | 1    |       |       |        |       | SPARE                        | ĺ   |
| 39 | SPACE                    |              |       |       |                  |        |    | 39   | *  | .    | 40 | 20        | 1    |       |       |        |       | SPARE                        | 4   |
| 41 | SPACE                    |              |       |       |                  |        |    | 41   |    | * 4  | 42 | 20        | 1    |       |       |        |       | SPARE                        | ŀ   |
|    | TOTALS                   | > 2.22       | 0.00  | 0.00  | 0.20             |        | _  |      |    |      |    |           |      | 13.60 | 0.00  | 0.00   | 0.00  | < TOTALS                     |     |
|    |                          |              |       | ı     | LOAD SU          | JMMATI | ON |      |    |      |    |           |      | ADD   | ITION | AL FE  | ATURE | ZS:                          |     |
|    | VOLTAGE:                 | CDNN         |       | DEMA  |                  | DEMA   |    |      |    |      |    |           |      |       |       |        |       |                              |     |
|    | 120/208V, 3 PH, 4W       |              | (KVA  |       |                  | LOAD   | _  |      |    |      |    |           |      |       |       |        |       |                              |     |
|    | AIC:<br>22,000           | 15.82        |       |       | LOAD =<br>MAND = |        |    | - CI |    |      |    | _         |      |       |       |        |       |                              |     |
|    | MDUNTING:                | 0.00<br>0.00 |       | 1.00  |                  | 0.00   |    | - RI |    |      |    | s<br>Larg | FST  | RRF   | AKER  | NDTES: |       |                              |     |
|    | MUUNTING:<br>SURFACE     |              | ×     | 1.00  |                  | 0.20   |    | - NI |    |      |    |           | LSI  |       |       |        |       | √ LOAD.                      |     |
|    | BUSING                   |              |       |       |                  |        | •  |      |    |      |    |           |      |       |       |        |       |                              |     |
|    | 225 AMP BUSING           | 16.02        | kVA   | 44.49 | Amps             | 19.97  | k  | VA   | 55 | 5.47 | 7  | Amps      |      |       |       |        |       |                              |     |
|    | MAIN:                    |              |       |       |                  |        |    |      |    |      |    |           |      |       |       |        |       |                              |     |

| PRO. | JECT: DA FORENSIC LAB EX  | PANSIO                                   | IN       |       |        |             |              |      | IST   |       |      |      |   |        |        |        |                           |            |  |
|------|---------------------------|--|----------|-------|--------|-------------|--------------|------|-------|-------|------|------|---|--------|--------|--------|---------------------------|------------|--|
| ПС   | ATION: 2ND FLOOR LAB 2108 |  |          |       | F      | PA          | N            |      |       | _     | · L  | 2    |   |        |        |        |                           |            |  |
|      |                           |  | KVA LOAD |       |        |             | C. B. CKT PH |      |       |       |      |      | KVA LOAD  |        |        |        |                           |            |  |
|      | LOAD DESCRIPTION          | CDNT.                                    |          | MOTOR | NDN    | TRIP        | POLE         | #    | AB    | _     |      | POLE | CONT.   |        | MOTOR  | NDN    | LOAD DESCRIPTION          |            |  |
|      | 21008C GC/MS              |  | 0.50     |       |        | 20          | 1            | 1    | *     | 2     | 20   | 1    |   | 0.40   |        |        | 2108C COUNTER RECEPTS     | 2          |  |
| 3    | 2108 COUNTER RECEPTS      |  | 1.40     |       |        | 20          | 1            | 3    | *     | 4     | 20   | 1    |   | 0.90   |        |        | 2108C REAG REF            | 4          |  |
| i    | 2108 COUNTER RECEPTS      |  | 0.50     |       |        | 20          | 1            | 5    | 3     | * 6   | 20   | 1    |   | 1.30   |        |        | 2108C FRZR STAND          | 6          |  |
| '    | 2108 COUNTER RECEPTS      |  | 0.50     |       |        | 20          | 1            | 7    | *     | 8     | 20   | 1    |   | 0.90   |        |        | 2108B EVID REF            | 8          |  |
| )    | 2108 COUNTER RECEPTS      |  | 0.50     |       |        | 20          | 1            | 9    | *     | 10    | 20   | 1    |   | 1.40   |        |        | 2108 BIO HOOD             | 10         |  |
| 1    | 2108 COUNTER RECEPTS      |  | 0.50     |       |        | 20          | 1            | 11   | 3     | * 12  | 20   | 1    |   | 1.40   |        |        | 2108B GC/FID              | 12         |  |
| 3    | 2109 GC/MS                |  | 1.40     |       |        | 20          | 1            | 13   | *     | 14    | 1 20 | 1    |   | 0.70   |        |        | 2109 UC REF               | 14         |  |
| 5    | 2108 BIO HOOD             |  | 1.40     |       |        | 20          | 1            | 15   | *     | 16    | 5 20 | 1    |   | 0.70   |        |        | 2109 COUNTER RECPTS       | 16         |  |
| 7    | 2108 BIO HOOD             |  | 1,40     |       |        | 20          | 1            | 17   | ,     | * 18  | 3 20 | 1    |   | 0.70   |        |        | 2109 COUNTER RECPTS       | 18         |  |
| 9    | 2108 PU-L1                |  | 0.50     |       |        | 20          | 1            | 19   | *     | 20    | 20   | 1    |   | 1.44   |        |        | 2109 COUNTER RECEPTS      | 20         |  |
| 21   | EXISTING LOAD             |  | 1.00     |       |        | 20          | 2            | 21   | *     | 22    |      | 1    |   |        | 0.69   |        | BOOSTER FAN               | 22         |  |
|      | EMIO 11110 EDITO          |  | 1.00     |       |        |             |              |      |       | *     |      |      |   |        | 0,03   | 0.66   | 38301211 1111             |            |  |
| 25   | EXISTING LOAD             |  | 1.00     |       |        | 20          | 2            | 25   |       | 26    | 20   | 3    |   |        |        | 0.66   | TOXICOLOGY RECEPT. (2)    | 26         |  |
|      |                           |  | 1.00     |       |        |             |              |      | *     |       |      |      |   |        |        | 0.66   |                           | <b>—</b> — |  |
| 29   | TOXICOLOGY FUME HOOD (1)  |  |          | 0.25  |        | 20          | 1            | 29   |       | *     |      |      |   |        |        | 0.66   |                           | <b></b>    |  |
| 31   | TOXICOLOGY RECEPT. (1)    |  | 0.90     |       |        | 20          | 1            |      | *     | 32    | 20   | 3    |   |        |        | 0.66   | TOXICOLOGY RECEPT. (2)    | 32         |  |
| 33   | SPARE                     |  |          |       |        | 20          | 1            | 33   | *     |       |      |      |   |        |        | 0.60   |                           | <u> </u>   |  |
| 35   | SPARE                     |  |          |       |        | 20          | 1            | 35   |       | * 36  | 20   | 1    |   | 0.72   |        | 0.00   | TOXICOLOGY RECEPT. (1)    | 36         |  |
| 37   | SPARE                     |  |          |       |        | 20          | 1            | 37   |       |       | 3 20 | 1    |   | 0.18   |        |        | TOXICOLOGY RECEPT. (1)    | 38         |  |
| 39   | SPARE                     |  |          |       |        | 20          | 1            | 39   | *     | 40    |      | 1    |   | 0.18   |        |        | TOXICOLOGY RECEPT. (1)    | 40         |  |
| 11   | SPARE                     |  |          |       |        | 20          | 1            | 41   | _     | *  46 |      | 1    |   | 0.10   |        |        | SPARE                     | 42         |  |
| 1    | TOTALS>                   | 0.00                                     | 13.50    | 0.25  | 0.00   |             | 1            | 71   |       | ^\    |      | 1    | 0.00  | 10.92  | 0.69   | 3 90   | < TOTALS                  |            |  |
|      | TOTALS /                  | 0.00                                     | 13.30    |       |        | IL ALA A TI |              |      |       |       |      | -    |   |        | AL FE  |        |                           |            |  |
|      | V□LTAGE:                  | LOAD SUMMATION CONNECT DEMAND DEMAND     |          |       |        |             |              |      |       |       |      | ם שם | 111014  | 7L   L | HIOKL  | .5'    |                           |            |  |
|      | 120/208V, 3 PH, 4W        | LOAD (KVA) FACTOR LOAD (KVA)             |          |       |        |             |              |      |       |       |      |      |   |        |        |        |                           |            |  |
|      | AIC                       | 0.00                                     |          | 5% DF |        |             |              | - CE | INTIN | VUDU  | IS   |      | i   |        |        |        |                           |            |  |
|      | 22,000                    | 24.42 × CEC DEMAND = 17.21 < RECEPTACLES |          |       |        |             |              |      |       |       |      |      |   |        |        |        |                           |            |  |
|      | MOUNTING:                 | 0.94 × 1.00 = 1.11 < MOTORS+25% LARGEST  |          |       |        |             |              |      |       |       |      | EST  |   |        |        |        |                           |            |  |
|      | SURFACE                   | 3.90 × 1.00 = 3.90 < N□NC□NTINU□US       |          |       |        |             |              |      |       |       |      |      | (1) = EXISTING C/B, NEW LOAD.<br>(2) = NEW C/B, NEW LOAD. |        |        |        |                           |            |  |
|      | BUSING:                   |  | 1.3.7.4  | 04.00 | A := = |             |              | ./.  | ~.    | 70    | A    |      | {2} =   | • NEW  | C/B, N | EW LO  | A J.                      |            |  |
|      | 225 AMP BUSING            | 29.26                                    | KVA      | 81.28 | Amps   | 22,22       | К,           | VA   | 61    | ./3   | Amps |      | l   |        |        |        |                           |            |  |
|      | MATAL                     |  |          |       |        |             |              |      |       |       |      |      |   |        |        |        |                           |            |  |
|      | MAIN:<br>MAIN LUGS DNLY   |  |          |       |        |             |              |      |       |       |      |      |   | 220.44 | DEMAN  | m. 1-+ | 10 kVA AT 100%, REMAINING | AT EO      |  |

# PANEL SCHEDULE NOTES

- 1. ALL CIRCUITS INDICATED "LIGHT" ON PANELS SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
- 2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR NEW AS PART OF THIS PROJECT.



DRAWN BY **ECOM** 

# Dewberry

DEWBERRY ARCHITECTS, INC. 1760 CREEKSIDE OAKS DRIVE SUITE 200 SACRAMENTO, CA 95833 916.239.7254 Phone 000.000.0000 Fax

SEAL **KEY PLAN** 

SCALE

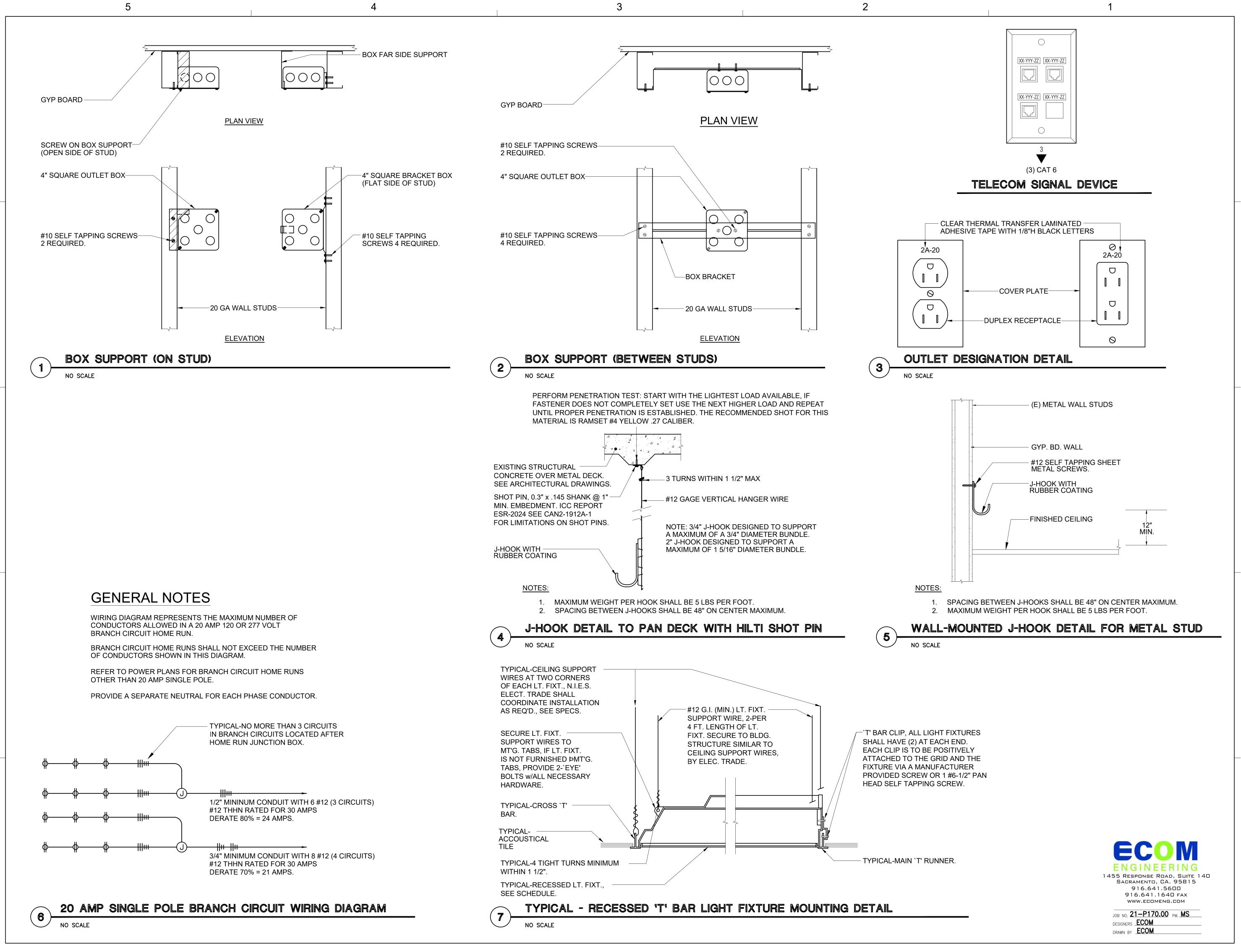
Description **REVISIONS** 

DRAWN BY APPROVED BY CHECKED BY APRIL 05, 2022

PARTIAL ONE LINE DIAGRAM & **PANEL** SCHEDULES

PROJECT NO. 50137033

SHEET NO.



Dewberry

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UNTY DA FORENSIC

ANO

2201 COURAGE DRIVE FLOOR DISTRICT ATTORNE FAIRFIELD, CA 94533

SEAL

PROFESSION
BENJAMIN
SCHLENKER
No. E 021982
Exp. 9/30/23
ELECTRICAL

OTHER OF CALFORNIA

SCALE

No. Description Date

REVISIONS

DRAWN BY ER
APPROVED BY EN
CHECKED BY TC
DATE APRIL 05, 2022

DETAILS

PROJECT NO.

**E300** 

50137033

SHEET NO.

TITLE