Placer County Office of Education

RFP for Lease-Leaseback Construction Services

Office Building Tenant Improvements, Annex Building Alterations, & Site Improvements @ Various Sites

ADDENDUM NO. 2

Friday, September 1, 2023

District: Placer County Office of Education
360 Nevada Street
Auburn, CA 95991
Contact: Martin Fregoso

Job Location: Various Three (3) Sites:
1. 1400 Stanford Ranch / Rocklin, CA 95765
2. 365 Nevada Street / Auburn, CA 95603
3. 360 Nevada Street / Auburn, CA 95603

Architect: Hibser Yamauchi Architects, Inc.
4602 2nd St
Davis, CA 95618

This Addendum has been prepared to clarify, modify, delete, or add to the drawings and/or specifications for the above referenced project, and revisions to items listed here shall supersede description thereof prior to the above stated date. All conditions not specifically referenced here shall remain the same. It is the obligation of the Prime Contractor to make subcontractors aware of any items herein that may affect submitted bids. Acknowledge receipt of this addendum by inserting its number and date in the bidding documents. Failure to do so may subject bidder to disqualification. All addenda items refer to the plans and specifications unless specifically noted otherwise.

PART A – GENERAL

2.1 **360 Nevada Street – Outdoor Canopy**

A. **CLARIFICATION** of scope. Revise scope of work to include power to new OFOI outdoor adaptive structures.

PART B – BIDDING AND CONTRACT REQUIREMENTS

2.2 **COST PROPOSAL – Allowance**

B. Bidder shall include in proposal an allowance of **$150,000** for potential unforeseen work and miscellaneous work in coordination with Owner's vendor(s).

PART C – CHANGES TO TECHNICAL SPECIFICATIONS

2.3 **360 Nevada Street – Section 08 33 23 – Overhead Coiling Doors**

A. **ADD** section in its entirety. **See attached 'Section 08 33 23.'**

ADDENDUM NO. 2

2.4 **1400 Stanford Ranch – Section 08 71 00 – Door Hardware**

A. **ADD** section in its entirety. **See attached 'Section 08 71 00.'**

2.5 **1400 Stanford Ranch – Section 10 14 00 – Signage**

A. **ADD** section in its entirety. **See attached 'Section 10 14 00.'**
B. **Clarification** to intent. Refer to attached Signage submittal for Owner's standards. Provide the following signs at ALL doors within Owner's suite.
    a. Type S3: EXITS, EXIT ROUTES, EQUIPMENT, UTILITY, SERVER, STORAGE, etc.
    b. Type S4, S5, S8, S9, S10: RESTROOMS
    c. Type S6: LARGE CONFERENCE ROOMS
    d. Type S7: OFFICES, SMALL CLASSROOMS / CONFERENCE ROOMS, BREAKROOMS, DOCUMENT PROCESSING

2.6 **1400 Stanford Ranch – Section 10 14 19 – Dimensional Letter Signage**

A. **ADD** section in its entirety. **See attached 'Section 10 14 00.'**

2.7 **1400 Stanford Ranch – Section 10 21 13 – Phenolic Toilet Compartment**

A. **ADD** section in its entirety. **See attached 'Section 10 21 13.'**

2.8 **1400 Stanford Ranch – Section 27 10 00 – Structured Cabling for Voice and Data**

A. **ADD** section in its entirety. **See attached 'Section 27 10 00.'**

2.9 **1400 Stanford Ranch / 360 Nevada Street – Section 32 90 00 – Landscaping**

A. **REVISED** section for referenced sites. **See attached 'Section 32 90 00.'**

2.10 **All Sites – Section 26 00 00 – Electrical Specifications**

A. **CLARIFICATION** to technical specifications. Section 26 00 00 shall also apply to the work at 360 Nevada Street. Refer to specs and see attached electrical sheets (per Item 2.10 of this addendum) for additional information**.**

PART D – CHANGES TO DRAWINGS:

2.11 **1400 Stanford Ranch – SHEET A0.00 – Sheet Index**

A. **REVISED** sheet index to include:

- A9.12 – CASEWORK DETAILS
- E1.01 – SITE PLAN – ELECTRICAL
- E1.02 – ENLARGED SITE PLAN – ELECTRICAL
- E1.03 – ENLARGED SITE PLAN – LIGHTING
- E6.01 – TITLE 24 OUTDOOR LIGHTING COMPLIANCE FORMS

- L0.2 – UPFIT STRUCTURE ENLARGEMENTS
- L0.3 – UPFIT STRUCTURE ENLARGEMENTS

See attached 'Sheet A0.00.'

2.12 **1400 Stanford Ranch - SHEET A1.02 – Room Analysis Information**

A. **REVISED** analysis information for Rm. 001, 117, and 118. **See attached 'Sheet A1.02.'**

2.13 **1400 Stanford Ranch - SHEET A1.03 – Room Analysis Information**

A. **REVISED** analysis information for Rm. 200D, 206, 213, 251, and 253B. **See attached 'Sheet A1.03.'**

2.14 **1400 Stanford Ranch - SHEET A2.01 – Extent of Demo Work**

A. **REVISED** extent of demolition including:
   a. **REVISED** information in GENERAL NOTES, DEMO NOTES and FLOOR PLAN. Extent of demolition shall be coordinated with new work.
   b. **OMIT** demo of existing interior office walls to accommodate windows unless otherwise noted. New interior windows shall be omitted from scope.
   c. **ADD** demo portion of existing wall @ LAB (Rm. 130) to accommodate new door.

See attached 'Sheet A2.01'.

2.15 **1400 Stanford Ranch - SHEET A2.02 – Extent of Demo Work**

A. **REVISED** extent of demolition including:
   a. **REVISED** information in GENERAL NOTES, DEMO NOTES and FLOOR PLAN. Extent of demolition shall be coordinated with new work.
   b. **OMIT** demo of existing interior office walls to accommodate windows unless otherwise noted. New interior windows shall be omitted from scope.
   c. **OMIT** demo portion of existing wall @ OFFICE (Rm. 250). Existing wall to remain.

See attached 'Sheet A2.01'.

2.16 **1400 Stanford Ranch - SHEET A2.04 – Wall Type 'E'**

A. **ADD** Wall Type 'E' information to PARTITION LEGEND. **See attached 'Sheet A2.04'.**

2.17 **1400 Stanford Ranch – SHEET A2.06 – Extent of New Work**

A. **REVISED** extent of new work including:
   a. **ADD** Wall Type 'E' information to PARTITION LEGEND.
   b. **REVISED** information to GENERAL NOTES.
   c. **REVISED** extent of work information in KEYNOTES.
   d. **OMIT** new interior office windows, typical; unless otherwise noted.
   e. **REVISED** extent of scope at existing doors to remain and door tags removed.

f. **REVISED** wall type references at certain locations.
g. **ADD** new door @ CONFERENCE (Rm. 104).
h. **ADD** new raised platform for dais @ LARGE CONFERENCE A (Rm. 103A).
i. **CLARIFICATION** of dais @ CONFERENCE (Rm. 104). New dais shall be OFCI. Contractor shall also provide 4x blocking at perimeter of new platform and shall coordinate power connection to manufactured furniture.

Also see attached 'SHEET A2.06'.

2.18 **1400 Stanford Ranch – SHEET A2.07 – Extent of New Work**

A. **REVISED** extent of new work including:
   a. **ADD** Wall Type 'E' information to PARTITION LEGEND.
   b. **REVISED** information to GENERAL NOTES.
   c. **REVISED** extent of work information in KEYNOTES.
   d. **OMIT** new interior office windows, typical; unless otherwise noted.
   e. **REVISED** extent of scope at existing doors to remain and door tags removed.
   f. **REVISED** wall type references at certain locations.

Also see attached 'SHEET A2.07'.

2.19 **1400 Stanford Ranch – SHEET A2.08 – Extent of New Work**

A. **REVISED** extent of new work including:
   a. **ADD** Wall Type 'E' information to PARTITION LEGEND.
   b. **REVISED / ADD** information to GENERAL NOTES.
   c. **REVISED** extent of work information in KEYNOTES.
   d. **REVISED** extent of scope at existing doors to remain and door tags removed.
   e. **REVISED** wall type references at certain locations.

Also see attached 'SHEET A2.08'.

2.20 **1400 Stanford Ranch – SHEET A2.20 – Door Schedule**

A. **REVISED** door hardware group references in DOOR SCHEDULE. **See attached 'SHEET A2.20'.**

2.21 **1400 Stanford Ranch – SHEET A2.30 – Window Types**

A. **OMIT** window types I4, I5, and I6 from scope. **See attached 'Sheet A2.30'.**

2.22 **1400 Stanford Ranch – SHEET A4.01 – Extent of New Finishes Work**

A. **REVISED** extent of new wall tile work in restrooms. **See attached 'SHEET A4.01'.**

2.23 **1400 Stanford Ranch – SHEET A4.03 – New Casework**

A. **REVISED** casework dimensions at detail 15 (@ HOSPITALITY – 105). **See attached 'SHEET A4.03'.**

2.24 **1400 Stanford Ranch – SHEET A5.01 – New Casework**

A. **REVISED** casework dimensions at detail 21 (@ BREAKROOM – 119). **See attached 'SHEET A5.01'.**

2.25 **1400 Stanford Ranch – SHEET A8.01 – Exterior Wall Finish System**

A. **REVISED** details pertaining to exterior wall system. **See attached 'SHEET A8.01'.**

2.26 **1400 Stanford Ranch – SHEET A9.01 – Wall Type 'E'**

A. **ADD** detail 14 (Wall Type 'E') for non-bearing interior walls. **See attached 'SHEET A9.01'.**

2.27 **1400 Stanford Ranch – SHEET A9.02 – Details 21 & 25**

A. **ADD** detail 21 (Partition to Ceiling) as alternate to match existing framed construction for non-bearing interior walls.
B. **ADD** detail 25 (Moss Wall Backing) for feature wall at PRE-FUNCTION area on ground floor.

See attached 'SHEET A9.02'.

2.28 **1400 Stanford Ranch – SHEET A9.05 – Wall Finish & Corner Guard Details**

A. **REVISED** details 6, 7, and 8 to include references for stainless steel trim at tile wall finish.
B. **ADD** detail 15 (Corner Guard 3x3 90° Angle).

See attached 'SHEET A9.05'.

2.29 **1400 Stanford Ranch – SHEET A9.13 – Breakroom Counter Details**

A. **ADD** SHEET A9.13 and breakroom counter details. **See attached 'SHEET A9.13'.**

2.30 **1400 Stanford Ranch – SHEET I1.00 – General Finish Notes**

A. **REVISED** GENERAL FINISH NOTES. **See attached 'SHEET I1.00'.**

2.31 **1400 Stanford Ranch – SHEET I2.02 – Extent of New Paint Work**

A. **REVISED** extent of new paint work in LOBBY. **See attached 'SHEET I2.02'.**

2.32 **1400 Stanford Ranch – SHEET I2.03 – Extent of New Paint Work & Flooring**

A. **REVISED** extent of new paint and flooring work in LOBBY, STORAGE, and other utility rooms. **See attached 'SHEET I2.02'.**

2.33 **1400 Stanford Ranch – SHEET SG1.01 – Dimensional Lettering**

A. **ADD** dimensional lettering @ WAITING (Rm. 253A) to signage schedule. **See attached 'SHEET SG1.01'.**

2.34 **1400 Stanford Ranch – SHEET SG1.01 – Dimensional Lettering**

A. **ADD** dimensional lettering @ WAITING (Rm. 253A) to signage schedule. **See attached 'SHEET SG1.01'.**

2.35 **1400 Stanford Ranch – SHEET SG2.01 – Signage Legend**

A. **ADD** signage legend to sheet. **See attached 'SHEET SG2.01'.**

2.36 **1400 Stanford Ranch – SHEET SG2.02 – Signage Legend**

A. **ADD** signage legend to sheet. **See attached 'SHEET SG2.02'.**

2.37 **1400 Stanford Ranch – SHEET SG2.03 – Signage Legend**

A. **ADD** signage legend to sheet. **See attached 'SHEET SG2.03'.**

2.38 **1400 Stanford Ranch – SHEET M0.01 – Diffuser, Register, & Grille Schedule / Duct Insulation Notes / Control Notes**

A. **REVISED** information in Diffuser, Register, & Grille Schedule / Duct Insulation Notes / Control Notes. **See attached 'SHEET M0.01'.**

2.39 **1400 Stanford Ranch – SHEETS M0.02 thru M2.22 – Extent of Mechanical Scope**

A. **REVISED** mechanical scope of work. **See attached 'SHEETS M0.02, M1.11, M1.21, M1.22, M2.11, M2.21, M2.22'.**

2.40 **1400 Stanford Ranch – SHEET M5.01 – Return Grille & Linear Diffuser Details**

A. **REVISED** details B, C, & H. **See attached 'SHEET M5.01'.**

2.41 **1400 Stanford Ranch – SHEET M5.02 – Fire Smoke Damper**

A. **REVISED** note no. 5 in detail D. **See attached 'SHEET M5.02'.**

2.42 **1400 Stanford Ranch – SHEET MP0.01 – General Mechanical Specifications**

A. **REVISED** mechanical specifications. **See attached 'SHEET MP0.01'.**

2.43 **1400 Stanford Ranch – SHEET MP0.02 – Plumbing & HVAC Specifications**

A. **REVISED** plumbing and HVAC specifications. **See attached 'SHEET MP0.02'.**

2.44 **1400 Stanford Ranch – SHEET P0.01 – Plumbing Fixture Schedule**

A. **ADD/REVISED** plumbing fixtures and equipment in schedules. **See attached 'SHEET P0.01'.**

2.45 **1400 Stanford Ranch – SHEET P1.11 – Extent of Plumbing Work**

A. **REVISED** extent of plumbing work. **See attached 'SHEET P1.11'.**

2.46 **1400 Stanford Ranch – SHEET P2.11 – Extent of Plumbing Work**

A. **REVISED** extent of plumbing work. **See attached 'SHEET P2.11'.**

2.47 **1400 Stanford Ranch – SHEET P2.12 – Extent of Plumbing Work**

A. **REVISED** extent of plumbing work. **See attached 'SHEET P2.12'.**

2.48 **1400 Stanford Ranch – SHEET P2.21 – Extent of Plumbing Work**

A. **REVISED** extent of plumbing work. **See attached 'SHEET P2.21'.**

2.49 **1400 Stanford Ranch – SHEET P5.02 – Plumbing Details**

A. **ADD** sheet in its entirety for UL plumbing penetration details and requirements. **See attached 'SHEET P5.02'.**

2.50 **1400 Stanford Ranch – SHEET E0.01 – Electrical Symbols List & Sheet Index**

A. **REVISED** electrical symbols.
B. **ADD** sheets E1.01, E1.02, E1.03 & E6.03 (for site electrical scope of work).

See attached 'SHEET E0.01'.

2.51 **1400 Stanford Ranch – SHEET E0.02 – Luminaire Schedules & Notes**

A. **ADD** outdoor luminaire fixture 'O' to schedule.
B. **REVISED** notes no. 4 & 5 in schedule notes.

See attached 'SHEET E0.02'.

2.52 **1400 Stanford Ranch – SHEET E1.01 – Site Plan Electrical**

A. **ADD** sheet in its entirety for site electrical work. **See attached 'SHEET E1.01'.**

2.53 **1400 Stanford Ranch – SHEET E1.02 – Enlarged Site Plan - Electrical**

A. **ADD** sheet in its entirety for site electrical work. **See attached 'SHEET E1.02'.**

2.54 **1400 Stanford Ranch – SHEET E1.03 – Enlarged Site Plan - Lighting**

A. **ADD** sheet in its entirety for site electrical work. **See attached 'SHEET E1.03'.**

2.55 **1400 Stanford Ranch – SHEET E2.01 – Extent of Demo Work - Lighting**

A. **REVISED** extent of lighting demo. **See attached 'SHEET E2.01'.**

2.56 **1400 Stanford Ranch – SHEET E2.02 – Extent of Demo Work - Lighting**

A. **REVISED** extent of lighting demo. **See attached 'SHEET E2.02'.**

2.57 **1400 Stanford Ranch – SHEET E2.03 – Extent of Demo Work - Lighting**

A. **REVISED** extent of lighting demo. **See attached 'SHEET E2.03'.**

2.58 **1400 Stanford Ranch – SHEET E2.04 – Extent of New Work - Lighting**

A. **REVISED** extent of new lighting. **See attached 'SHEET E2.04'.**

2.59 **1400 Stanford Ranch – SHEET E2.05 – Extent of New Work - Lighting**

A. **REVISED** extent of new lighting. **See attached 'SHEET E2.05'.**

2.60 **1400 Stanford Ranch – SHEET E2.06 – Extent of New Work - Lighting**

A. **REVISED** extent of new lighting. **See attached 'SHEET E2.06'.**

2.61 **1400 Stanford Ranch – SHEET E3.01 – Extent of Demo Work - Electrical**

A. **REVISED** extent of electrical demo. **See attached 'SHEET E3.01.**

2.62 **1400 Stanford Ranch – SHEET E3.02 – Extent of Demo Work - Electrical**

A. **REVISED** extent of electrical demo. **See attached 'SHEET E3.02'.**

2.63 **1400 Stanford Ranch – SHEET E3.04 – Extent of New Work - Electrical**

A. **REVISED** extent of new electrical. **See attached 'SHEET E3.03'.**

2.64 **1400 Stanford Ranch – SHEET E3.05 – Extent of New Work - Electrical**

A. **REVISED** extent of new electrical. **See attached 'SHEET E3.05'.**

2.65 **1400 Stanford Ranch – SHEET E3.06 – Extent of New Work - Electrical**

A. **REVISED** extent of new electrical. **See attached 'SHEET E3.06'.**

2.66 **1400 Stanford Ranch – SHEET E4.01 – One-Line Diagram**

A. **REVISED** corresponding one-line diagram. **See attached 'SHEET E4.01'.**

2.67 **1400 Stanford Ranch – SHEET E4.02 – Panel Schedules**

A. **REVISED** panel schedules information. **See attached 'SHEET E4.02'.**

2.68 **1400 Stanford Ranch – SHEET E5.01 – Site Electrical Details**

A. **ADD** details 8 & 9 for bollard mounting and underground pull box requirements. **See attached 'SHEET E5.01'.**

2.69 **1400 Stanford Ranch – SHEET E6.01 – T24 Indoor Lighting Compliance**

A. **REVISED** T24 lighting compliance forms to reflect revisions to lighting design. **See attached 'SHEET E6.01'.**

2.70 **1400 Stanford Ranch – SHEET E6.03 – T24 Outdoor Lighting Compliance**

A. **ADD** sheet in its entirety. **See attached 'SHEET E6.03'.**

2.71 **1400 Stanford Ranch – SHEET L0.01 – Outdoor Adaptive Structure Footings**

A. **ADD** footing sizes for outdoor adaptive furniture (i.e. Upfit). **See attached 'SHEET L0.01.**

2.72 **1400 Stanford Ranch – SHEET L0.2 – Outdoor Adaptive Structure Layout**

A. **ADD** sheet in its entirety for outdoor structure layout. **See attached 'SHEET L0.2'.**
B. **CLARIFICATION.** New structure shall be OFOI. Contractor to provide footings and coordinate installation with Owner.

2.73 **1400 Stanford Ranch – SHEET L0.2 – Outdoor Adaptive Structure Layout**

A. **ADD** sheet in its entirety for outdoor structure layout. **See attached 'SHEET L0.2'.**
B. **CLARIFICATION.** New structure shall be OFOI. Contractor to provide footings and coordinate installation with Owner.

2.74 **365 Nevada Street – SHEET A2.10 – Door Hardware Groups**

A. **REVISED** door tags and schedule to include hardware groups. **See attached 'SHEET A2.10'.**

2.75 **365 Nevada Street – SHEET M0.01 – Equipment Schedules & AC Units**

A. **REVISED** information on equipment schedules and (e) AC units. **See attached 'SHEET M0.01'.**

2.76 **365 Nevada Street – SHEET M1.01 – Extent of Demo Work**

A. **REVISED** extent of demo work. **See attached 'SHEET M1.01'.**

2.77 **365 Nevada Street – SHEET M2.01 – Extent of New Work**

A. **REVISED** extent of new work. **See attached 'SHEET M2.01'.**

2.78 **365 Nevada Street – SHEET M5.01 – Details**

A. **ADD** detail H for exposed diffuser/grille mounting. **See attached 'SHEET M5.01'.**

2.79 **365 Nevada Street – SHEET M5.02 – Details**

A. **ADD** detail E for dryer vent wall cap. **See attached 'SHEET M5.02'.**

2.80 **365 Nevada Street – SHEET MP0.02 – HVAC Specifications**

A. **REVISED** HVAC specifications. **See attached 'SHEET MP0.02'.**

2.81 **365 Nevada Street – SHEET P0.01 – Plumbing Schedules**

A. **REVISED** plumbing schedules. **See attached 'SHEET P0.01'.**

2.82 **365 Nevada Street – SHEET P2.01 – Extent of New Plumbing Work**

A. **REVISED** plumbing schedules. **See attached 'SHEET P2.01'.**

2.83 **365 Nevada Street – SHEET P5.01 – Trench Backfill Detail**

A. **ADD** detail D for trench backfill. **See attached 'SHEET P5.01'.**

2.84 **365 Nevada Street – SHEET E2.01 – Extent of Demo Work – Lighting**

A. **REVISED** extent of demo lighting work. **See attached 'SHEET E2.01'.**

2.85 **365 Nevada Street – SHEET E1.01 – Extent of New Work – Lighting**

A. **REVISED** extent of new lighting. **See attached 'SHEET E2.02'.**

2.86 **365 Nevada Street – SHEET E3.01 – Extent of Demo Work – Electrical**

A. **REVISED** extent of demo electrical work. **See attached 'SHEET E3.01'.**

2.87 **365 Nevada Street – SHEET E3.01 – Extent of New Work – Electrical**

A. **REVISED** extent of new electrical. **See attached 'SHEET E3.02'.**

2.88 **365 Nevada Street – SHEET E4.01 – Panel Schedules**

A. **REVISED** panel schedules information. **See attached 'SHEET E4.01'.**

2.89 **365 Nevada Street – SHEET E5.02 – Wall Sconce Detail**

A. **REVISED** detail 3. **See attached 'SHEET E5.02'.**

ADDENDUM NO. 2

2.90 **360 Nevada Street – SHEET A0.00 – Sheet Index**

A. **REVISED** sheet index to include:

- E0.01 – ELECTRICAL SHEET INDEX, ABBREVIATIONS, SYMBOL LIST, AND NOTES
- E1.01 – PARTIAL SITE PLAN - ELECTRICAL

See attached 'Sheet A0.00.'

2.91 **360 Nevada Street – SHEET E0.01 – Electrical Sheet Index, Abbreviations, Symbol List, and Notes**

A. **ADD** sheet in its entirety. **See attached 'SHEET E0.01'.**

2.92 **360 Nevada Street – SHEET E1.01 – Partial Site Plan - Electrical**

A. **ADD** sheet in its entirety. **See attached 'SHEET E1.01'.**

2.93 **RFI Responses**

1. *Is Builder's Risk Insurance required? If Builder's Risk insurance is required what are the requirements and limits?*

   Response: Not required.

2. *Are we required to provide flood and earthquake insurance?*

   Response: Not required.

3. *What is the project duration?*

   Response: Start date by October or November with goal to complete by dates indicated below.

4. *What is the completion date?*

   Response: Complete 1400 S Stanford by June or July of 2024, Auburn projects completed by December 2024

5. *Can you provide the specifications for the bathroom accessories?*

   Response: Scope revised. Re-use existing bathroom accessories except for mirrors. Provide new mirrors as indicated per interior elevations.

   - Basis of design: Bobrick B-1659 (or equal)

6. *The specifications for the fire extinguishers/cabinets were not provided. Can we use the Annex specifications for the fire extinguishers/cabinets for the Stanford Ranch project?*

   Response: Yes.

7. *New Main Office: A specification is provided for 10 22 26 Operable Wall Partitions is provided, however, no call-out is indicated on the plans. It appears that this is to be located at Gridline D on page A2.06, however, the partition is noted with a casework call-out. Please clarify and confirm which partition details are applicable from the plans.*

   Response: Callout on A2.06 revised to correspond with new operable wall partitions.

8. *New Main Office: Note 06.04 indicates casework at what appears to be an Operable Partition (reference previous RFI) on A2.06, A2.07 and A2.08. Please confirm if this is correct and if so, provide elevations of what this casework is supposed to look like.*

   Response: Note 06.04 has been revised and applies to Sheet A2.06.

9. *New Main Office: Notes 6.04 and 6.05 on A2.06 indicate "SEE DETAIL A9.XX" Please provide the plan page and detail.*

   Response: Keyed notes revised.

10. *New Main Office: Please provide specifications for the wall tile to be installed per the finish plan.*

    Response: Refer to the specification SECTION 09 30 13 CERAMIC TILE in Addendum No.2.

11. *New Main Office: Please provide specifications for all flooring finishes (LVT, Carpet, SDT, VCT) to be installed per the finish plan I1.00. Please provide acceptable substitutions (if available) and any requirements for attic stock or closeout procedure such as warranties.*

    Response: Refer to the following specification SECTIONS in Addendum No.2:

    - 09 65 19.19 VINYL COMPOSITION TILE
    - 09 68 00 CARPETING

12. *New Main Office: E3.04 Please confirm that note 3 "locate for AV Rack" indicates a data drop in each location. If so, how many cables are in each of these drops?*

    Response: Refer to numbered note 11.

13. *New Main Office: E3.04/E3.05 Can you please clarify what the following symbol is indicative of? This symbol is not noted in the electrical sheet index. It is currently assumed that this is just a pathway only for future cabling by wanted to clarify.*

Response: This signifies one data jack if number is not present. Where number is present, provide 2 data cables to MDF for first floor, respective IDF on second floor.

14. *New Main Office: E3.04/E3.05 Can you please clarify what the following symbol is indicative of? With no number in the parentheses, we are assuming that this is only indicative of a 4-11/16" box for data outlet, and there will not be a cable pulled to these locations, but we wanted to clarify.*

Response: This signifies one data jack when number is not present. Numbered note 16 calls for 1 CAT6 cable.

15. *New Main Office: E3.05 Please clarify if the following junction box locations noted below call out for a data cable to be pulled or if they are just meant for a future pathway location.*

Response: Refer to Addendum #2 drawings for data cables required.

16. *New Main Office: Please specify if the head end rack/cabinet/feeds of the telecommunications portion of this project exists or will this need to be a provided component.*

Response: MPOE is existing. IDFs on 2nd floor are existing. MDF will be owner provided and installed. Fiber optic cable between MPOE and MDF is new. Fiber optic cable between MDF and IDFs will be new. Refer to Addendum #2 drawings.

17. *New Main Office: A9.04 detail 21 shows motorized mechoshades, however no locations were noted on the plans. Please confirm if this detail applies.*

Response: Provide motorized mechoshades at ALL existing exterior windows except for OFFICES. Provide manually operated mechoshade at OFFICES at exterior walls/windows.

18. *Annex Building Alterations: Per A2.03 Notes 10.04 and 10.05, pallet racks and netting are to be installed by the contractor. No specification is provided – please provide a specification or basis of design to be used for both items.*

    Response: Provide the following system or equal:

    - Basis of Design:
        1. Manufacturer: Husky Rack & Wire Teardrop Pallet Rack
        2. Load Capacity: Min. 4,000 lbs per level
        3. Levels: Min. 2

19. *Annex Building Alterations: A2.03 Note 9.08 indicates tile backsplashes to be installed. Please provide product information to be used.*

    Response: Provide laminate 4" coved backsplash to match new countertop finish.

20. *New Main Office- 2nd floor flooring finish plan on I2.03 shows Main Stairs 004 shaded as flooring to remain. Demolition plan A2.02 shows Main stair with Demo note D2.54 which states Remove € carpet flooring at stair and landing. Provide new rubber stair tread and nosing. Please clarify.*

    Response: Extent of work revised and clarified.

21. *Annex building Interior Elevation page A3.30 keynote 09.01 states to see finish plan. Please provide a finish plan for the Annex building.*

    Response: Provide new rubber wall base.

    - Basis of Design:
        1. Manufacturer: Johnsonite 'Basework'
        2. Color: Match existing adjacent

22. *The Specs Office Bldg. TI Annex Bldg. Alt and Site Improv.pdf document does not include product specifications Division 27 Communications & Audio Visual or Division 28 Security. There are symbols on the E drawings that indicate Communications voice/data outlets, Audio Visual rack and Access Control card reader security devices and systems. However, there are no brands or model numbers for Cat 6 structured cabling and patch panels, fiber optic cable, fiber connectors and termination panel, Server Room communications racks, overhead ladder, wire management, AV projector, AV projection screen, access control system. Please provide those specifications.*

    Response:

    a. A/V and Access Control devices shall be OFOI.
    b. Refer to attached specifications 27 10 00 – STRUCTURE CABLING FOR VOICE AND DATA for additional information.

23. *Annex Building Alterations- Please provide spec for door type E on sheet A2.10.*

    Response: Refer to specification SECTION 08 33 23 (OVERHEAD COILING DOORS) in Addendum No. 2.

24. *Annex Building Alterations- Sheet A3.30 keynote 08.03 references details 16,17/A8.01. Details for 08.03 on A8.01 are 2 and 6. Please clarify*.

    Response: Details 2 & 6/A8.01 apply to keyed not 08.03.

25. *A signage schedule was provided per the plans, however no specification was found regarding signage. Please provide a spec section for signage if available indicating material used.*

    Response: Refer to specification SECTION 10 14 00 (SIGNAGE) and PCOE SIGNAGE STANDARDS in Addendum No.2.

26. *No specification was provided for RR accessories, which are to be newly furnished and installed per the elevations please provide a basis of design or specification if possible.*

    Response: Refer to RFI No. 5 in Addendum No. 2.

27. *Can you provide the specifications for the bathroom accessories?*

    Response: Refer to RFI response no. 5a. Coordinate re-installation of existing accessories with new toilet partitions.

28. *New Main Office: It is not clear who is providing HVAC controls for Stanford Ranch. Please confirm which entity is to provide these.*

    Response: Refer to revised mechanical drawings for clarification of scope.

29. *New Main Office: The scope of work for 1400 W Stanford Ranch Road includes removal and replacement of existing thermostats. What make and model is the existing building management system and subsequent thermostats?*

    Response: Refer to revised mechanical drawings for clarification of scope.

30. *Keynote 12.03 on A2.06 indicates "moss walls" to be provided. No detail or specification is given for these items. Please provide the following:*
    a. *Confirm if this is an contractor furnished and installed item. Is just providing the backing required or is the contractor providing and installing the item?*

b. *If the contractor is providing this item, please provide specification for the product to be used.*
c. *Please provide a detail for this item showing how this item is to be installed and the backing required.*

Response:
a. Product specification does not exist. Product shall be OFCI.
b. Refer to MFR installation guideline attached.
c. Refer to detail 25/A9.02 in Addendum No.2 for furred wall and niche.

31. *New Main Office: A list of appliances are given under Keynotes 11.02-11.08 on A2.06 and 2.07 noting to provide power and water. Is the contractor providing only power and water for these items or are they required to supply the appliances? Please provide an appliance schedule to be used for reference if possible.*

Response: Appliances shall be OFOI.

32. *Annex Building: VCT Flooring is called for on A2.03 at 131, 132, and 134, however no Finish Plan or specification is provided. Please provide product information to be used.*

Response: Provide sealed concrete finish. Refer to specification SECTION 09 97 23.

33. *Annex Building: New casework is to be installed per A2.03, please provide specifications for this item.*

Response: Refer to specification SECTION 06 41 16 (LAMINATE-CLAD WOOD CASEWORK) in Addendum No.2.

34. *Annex Building: Note 09.02 on sheet A2.03 notes to "extend wall finish to under deck." Please confirm what the existing finish at this wall location – no explanation could be identified within the plans and elevations*.

Response: Provide 5/8" gypsum board finish infill from above existing ceiling to underside of existing plywood roof deck. Provide finish level (4 min.) and paint to match existing adjacent.

35. *Annex Building: OH roll-up doors are to be installed given the door schedule and note 08.03 on the A3.01 and A3.02 elevations. Please confirm the following:*
    a. *Are those roll-up door manually or electronically operated?*
    b. *Please a provide detail for these doors showing how these are to be installed in the face of the building, showing any connections required.*
    c. *Please provide a basis of design to be used for this item.*

Response: Refer to specification section 08 33 23 in Addendum No.2.

36. *New Main Office: Notes on I1.00 appear to be incomplete and reference a different project. Please provide updated notes for this project.*

    Response: Refer to revised sheet I1.00 in Addendum No.2.

37. *New Main Office: Please provide sizing for metal letter signage to be installed at reception per A4.06.*

    Response: New metal lettering shall be 16" in height unless otherwise noted. Also refer to specification SECTION 10 14 19 (DIMENSIONAL LETTER SIGNAGE) in Addendum No.2.

List of Attachments

SECTIONS applicable to:

1400 Stanford Ranch / 365 Nevada Street

- Section 06 06 60 Countertops
- Section 06 41 16 Laminate-Clad Wood Casework

1400 Stanford Ranch / 360 Nevada Street

- Section 32 90 00 Landscaping

1400 Stanford Ranch

- Section 08 71 00 Door Hardware (1400 Stanford Ranch)
- Section 08 80 00 Glazing
- Section 09 30 13 Ceramic Tile
- Section 09 53 00 Acoustical Ceiling Suspension Assemblies
- Section 09 65 19.19 Vinyl Composition Tile
- Section 09 68 00 Carpeting
- Section 10 14 00 Signage (incl. PCOE Signage Standard)
- Section 10 14 19 Dimensional Letter Signage
- Section 10 21 13 Phenolic Toilet Compartments
- Section 27 10 00 Structured Cabling for Voice and Data

365 Nevada Street

- Section 08 33 23 Overhead Coiling Doors
- Section 08 71 00 Door Hardware (365 Nevada Street)

ADDENDUM NO. 2

DRAWINGS applicable to:

1400 Stanford Ranch

- Sheet A0.01 (30 x 42 dwg)
- Sheet A1.02 (30 x 42 dwg)
- Sheet A1.03 (30 x 42 dwg)
- Sheet A2.01 (30 x 42 dwg)
- Sheet A2.02 (30 x 42 dwg)
- Sheet A2.03 (30 x 42 dwg)
- Sheet A2.04 (30 x 42 dwg)
- Sheet A2.06 (30 x 42 dwg)
- Sheet A2.07 (30 x 42 dwg)
- Sheet A2.08 (30 x 42 dwg)
- Sheet A2.20 (30 x 42 dwg)
- Sheet A2.30 (30 x 42 dwg)
- Sheet A4.01 (30 x 42 dwg)
- Sheet A4.03 (30 x 42 dwg)
- Sheet A5.01 (30 x 42 dwg)
- Sheet A8.01 (30 x 42 dwg)
- Sheet A9.01 (30 x 42 dwg)
- Sheet A9.02 (30 x 42 dwg)
- Sheet A9.05 (30 x 42 dwg)
- Sheet A9.10 (30 x 42 dwg)
- Sheet A9.13 (30 x 42 dwg)
- Sheet I1.00 (30 x 42 dwg)
- Sheet I2.02 (30 x 42 dwg)
- Sheet I2.03 (30 x 42 dwg)
- Sheet SG1.01 (30 x 42 dwg)
- Sheet SG2.02 (30 x 42 dwg)
- Sheet SG2.03 (30 x 42 dwg)
- Sheet SG9.01 (30 x 42 dwg)
- Sheet M0.01 (30 x 42 dwg)
- Sheet M0.02 (30 x 42 dwg)
- Sheet M1.11 (30 x 42 dwg)
- Sheet M1.21 (30 x 42 dwg)
- Sheet M1.22 (30 x 42 dwg)
- Sheet M2.21 (30 x 42 dwg)
- Sheet M2.22 (30 x 42 dwg)
- Sheet M5.01 (30 x 42 dwg)
- Sheet M5.02 (30 x 42 dwg)

- Sheet MP0.01 (30 x 42 dwg)
- Sheet MP0.02 (30 x 42 dwg)
- Sheet P0.01 (30 x 42 dwg)
- Sheet P1.11 (30 x 42 dwg)
- Sheet P1.21 (30 x 42 dwg)
- Sheet P2.11 (30 x 42 dwg)
- Sheet P2.12 (30 x 42 dwg)
- Sheet P2.21 (30 x 42 dwg)
- Sheet P5.01 (30 x 42 dwg)
- Sheet P5.02 (30x42 dwg)
- Sheet E0.01 (30x42 dwg)
- Sheet E0.02 (30x42 dwg)
- Sheet E1.01 (30x42 dwg)
- Sheet E1.02 (30x42 dwg)
- Sheet E1.03 (30x42 dwg)
- Sheet E2.01 (30x42 dwg)
- Sheet E2.02 (30x42 dwg)
- Sheet E2.03 (30x42 dwg)
- Sheet E2.04 (30x42 dwg)
- Sheet E2.05 (30x42 dwg)
- Sheet E2.06 (30x42 dwg)
- Sheet E3.01 (30x42 dwg)
- Sheet E3.02 (30x42 dwg)
- Sheet E3.03 (30x42 dwg)
- Sheet E3.04 (30x42 dwg)
- Sheet E3.05 (30x42 dwg)
- Sheet E3.06 (30x42 dwg)
- Sheet E4.01 (30x42 dwg)
- Sheet E4.02 (30x42 dwg)
- Sheet E5.01 (30x42 dwg)
- Sheet E6.01 (30x42 dwg)
- Sheet L0.01 (30x42 dwg)
- Sheet L0.02 (30x42 dwg)
- Sheet L0.03 (30x42 dwg)

<u>365 Nevada Street</u>

- Sheet A0.01 (30 x 42 dwg)
- Sheet A1.02 (30 x 42 dwg)

ADDENDUM NO. 2

360 Nevada Street

- Sheet A0.01 (30 x 42 dwg)
- Sheet A1.02 (30 x 42 dwg)

OTHER

- Moss Wall Installation Guide

End of Addendum No.2

SECTION 06 05 60
Countertops

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Laminated plastic countertops.

B. Splash panels.

C. Preparation for utilities.

1.2 RELATED SECTIONS

A. Section 06 41 16 Laminate-Clad Wood Casework.

1.3 REFERENCES

A. WI - Woodwork Institute: Manual of Millwork.

B. ASTM A653 – Standard Specification for Steel Sheet, Zinc Coated, (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

C. ASTM A924 – Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

D. NEMA HPDL LD - High-Pressure Decorative Laminates.

1.4 QUALITY ASSURANCE

A. Manufacture countertops in accordance with quality standards of the Manual of Millwork of the Woodwork Institute.

B. Issue WI Certified Compliance Certificate to Architect prior to delivery of countertops and provide WI Certified Compliance Labels on all countertops.

C. Provide WI Reinspection Service at the job site prior to installation. Provide to Architect a written report showing the results of the reinspection.

D. Upon completion of the installation, provide a WI Certified Compliance Certificate.

1.5 MOCK-UP

A. Prepare mock-up under provisions of Section 01 45 00.

B. Provide full size countertops of each type indicated.

C. Units will be examined to ascertain quality and conformity to WI standards.

D. Units will establish a minimum standard of quality for this Work.

E. Approved units may be used as part of the Work.

1.6 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Shop Drawings: Include materials, component profiles, fastening methods, assembly methods, joint details, accessory listings, and schedule of finishes. Provide WI Certified Compliance label on first page of each set.

C. Submit Samples of each type of countertop material.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Active member of the Woodwork Institute licensed by WI to provide WI Certified Compliance Certificates and Labels for the products and materials specified in this Section.

B. Substitutions: Under provisions of Section 01 87 00.

2.2 LAMINATED PLASTIC COUNTERTOPS

A. Fabricate in accordance with Section 16 of the Manual of Millwork:

1.	WI Grade:	Premium [Custom].
2.	Core Thickness:	0.75" minimum.
3.	Laminate Thickness:	0.050".
4.	Edge Covering:	Rolled.
5.	Backsplash:	Square butt.
6.	Top of Backsplash:	Waterfall.
7.	Plastic Colors and Pattern:	To be selected by Architect from Wilsonart standard ARP, textured, satin and woodgrain pattern finishes

8.	Laboratory Exposed Shelves And Reagent Shelves:	Acid-resistant laminated plastic "Chemsurf" by WilsonArt, color as selected by Architect from standard patterns, satin finish.

2.3 HARDWARE

A. Grommets: Doug Mockett and Company, Inc. SG Series; plastic 3-1/2", diameter. Colors and locations as selected by Architect.

B. Countertop Standard or Concealed Brackets: 1/8" thick x 18" x 24" steel legs, 1-1/2" forms with six 1/4" mounting holes per side, 1,000 lbs. minimum load support, 45° cut out as manufactured by A & M Hardware, Inc., or approved equal.

C. Piano Hinge for Countertop, or approved equal.

D. Remainder of hardware required shall be as listed in Supplement No. 1 to Sections 14 and 15 of the Manual of Millwork.

2.4 FABRICATION

A. Shop assemble countertops for delivery to site in units easily handled and sized to permit passage through building openings.

B. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

C. Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes, and other fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal contact surfaces of cut edges.

D. Install plastic grommets in the field in countertops as directed by the Owner's Representative and/or Architect.

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify adequacy of backing and support framing.

B. Examine countertops for defects. Correct all defects prior to installation.

3.2 INSTALLATION

A. Install countertops in accordance with Installation of Architectural Millwork,

Section 26 of the Manual of Millwork.

B. Make joints neatly, with uniform appearance.

C. Install Work plumb, level, true, and straight, with no distortions. Install with no variation in flushness of adjoining surfaces.

D. Shim as required, using concealed shims.

E. Scribe and cut to fit adjoining Work.

F. Repair damaged and defective Work to eliminate visual and functional defects; where repair is not possible, replace Work.

G. Sealant: Install sealant as specified in Section 07 92 00, as required to close any small unavoidable gaps between counter and abutting surfaces.

3.3 ADJUSTING AND CLEANING

A. Protect countertops from damage until acceptance.

B. Clean countertops with materials and equipment that will not cause damage to surfaces.

3.4 SCHEDULE

A. Each base cabinets shall receive a countertop.

B. All countertops shall be plastic laminate covered unless specifically noted otherwise.

C. Stainless steel countertops shall be as detailed on Drawings.

D. Galvanized steel countertops shall be installed where indicated.

END OF SECTION

SECTION 06 41 16
Laminate-Clad Wood Casework

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Special fabricated cabinet units.

B. Preparation for utilities.

C. Cabinet hardware.

D. Glass for cabinet doors.

1.2 RELATED SECTIONS

A. Section 01 74 00 Cleaning and Waste Management.

B. Section 06 05 60 Countertops.

C. Section 06 10 00 Rough Carpentry.

1.3 REFERENCES

A. WI - Woodwork Institute: Manual of Millwork.

B. NEMA HPDL: High-Pressure Decorative Laminates.

1.4 QUALITY ASSURANCE

A. Manufacture casework items in accordance with quality standards of the Manual of Millwork of the Woodwork Institute.

B. Issue WI Certified Compliance Certificate to Architect prior to delivery of millwork and provide WI Certified Compliance Labels on all items of casework.

C. Provide WI Reinspection Service at the job site prior to installation. Provide to Architect a written report showing the results of the reinspection.

D. Upon completion of the installation, provide a WI Certified Compliance Certificate.

1.5 MOCK-UP

A. Prepare mock-up under provisions of Section 01 45 00.

B. Provide full size base cabinet and upper cabinet of each type indicated, in specified finish with hardware installed.

C. Units will be examined to ascertain quality and conformity to WI standards.

D. Units will establish a minimum standard of quality for this Work.

E. Approved units may be used as part of the Work.

1.6 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Shop Drawings: Include materials, component profiles, fastening methods, assembly methods, joint details, accessory listings, and schedule of finishes. Provide WI Certified Compliance label on first page of each set.

C. Submit Samples of each color/pattern of plastic laminate cabinet facing.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Active member of the Woodwork Institute licensed by WI to provide WI Certified Compliance Certificates and Labels for the products and materials specified in this Section.

B. Substitutions: Under provisions of Section 01 62 00.

2.2 CABINET DESIGN

A. Individual cabinets are indicated on the Drawings by the WI Design Numbering System, Section 15, Supplement No. 3.

B. A WI number followed by an "L" indicated on the Drawings requires that each door or pair of doors and drawers within that WI cabinet be individually lockable.

2.3 CASEWORK - LAMINATED PLASTIC COVERED

A. Fabricate in accordance with Section 15 of the Manual of Millwork:

1. WI Grade: Custom.

2. Type: Type I.

3. Construction: Style A-Frameless.

4.	Joinery:	Dado and screw.
5.	Cabinet Backs: Manual).	AWS, Dadoed (Detail 2C and 7C Millwork
6.	Cabinet Door Type:	Type A. Stile and rail (for glass).
7.	Shelves:	1-M-2 particle board, 1" thick, MOE of 950, capable of supporting 50 lbs./sq. ft. load deflection of L/144.
8.	Shelf Edge Bands:	0.020" PVC in color to match shelf. All 4 edges of adjustable shelves to receive banding.
9.	Door, Drawer, and Cabinet Drawer Box Edge Bands:	Door and Drawer: 3 mm PVC edge banding. Boxes: 0.020" PVC white.
10.	Exposed Surfaces (Including Shelves and Interior of Open Front Cabinets):	0.028" high pressure plastic laminate color and pattern as selected by Architect. A maximum of 5 colors and patterns to be selected by Architect from Nevamar's standard ARP textured, satin and wood grain pattern finish.
11.	Semi-Exposed Surfaces (Behind Doors and Inside Drawers):	Low pressure decorative polyester or melamine laminate ALA-85.
12.	Exposed Laboratory Surfaces (Including Shelves and Interior of Open Front Cabinets):	Acid-resistant laminated plastic "Chemsurf" by WilsonArt, color as selected by Architect from standard patterns, satin finish.
13.	Security and Dust Panels:	Particleboard, 3/4" thick at all lockable drawers.
14.	Track for Sliding Glass Doors:	Knape & Vogt No. [965KA][1092 Series]

2.4 GLAZING

A. 1/4" thick clear laminated safety glazing with all exposed edges ground smooth.

B. Glass shelves (if indicated) 5/8" thick clear laminated safety glazing with all exposed edges ground smooth.

2.5 HARDWARE

A. Hinge option: Unless noted otherwise, BLUM concealed self-closing hinge with Inserta Plate, silver shall be used.

B. Pulls for doors and drawers: 4" wire pulls

C. Sliding door hardware:

1. For 3/4" sliding glass door: Engineered Product Co. EPCO, Part No.11

2. For 1/4" glass sliding doors: Knape and Vogt No. 992 Series

D. Drawer Slides:

1. For shallow / upper drawers: BLUM Metabox System ~~B330M~~

2. For medium, tall and file drawers: BLUM Metabox System ~~B330H~~

3. For all file drawers: Full extension slides.

E. Wall standards and brackets: Knape and Vogt No. 83 Standard with No. 183 brackets for heavier duty.

F. Door and drawer locks:

1. For cabinet doors: COMPX NATIONAL, “Pin Tumber Door & Drawer Locks” No. C-8173 Lock.

a. Ensure lock face sits flush with face of casework door, size lock depth to match door panel thickness.

2. For cabinet drawers: COMPX NATIONAL, “Pin Tumber Door & Drawer Locks” No. C-8178 Lock.

3. For sliding wood doors, COMPX NATIONAL, “Pin Tumber Sliding Door, File Cabinet Locks” No. C-8142 lock.

4. For sliding glass doors: Olympus, “Showcase/Ratchet Lock” No. 329R-26D

G. Metal Shelf Supports at exposed opening shelving shall be Knape and Vogt No. 346 Series with cushion #129 RUB. Provide (2) #8 wood screws per shelf support at opposite corners for seismic restraint.

H. Shelf Supports at adjustable shelves at cabinet doors shall be ‘Engstrom’ earthquake proof shelf clips.

I. Magnetic catches shall be Engineered Product Co. EPCO, Part No. 593.

J. Grommets: Doug Mockett and Company, Inc. SG Series; TG Flip0Top Series

Plastic 2" diameter. Colors and locations as selected by Architect.

K. Hanger Rods: 1-1/16" diameter tubing, stainless steel.

L. Remainder of hardware required shall be as listed in Supplement No. 1 to Sections 14 and 15 of the Manual of Millwork.

2.6 FABRICATION

A. Shop assemble casework for delivery to site in units easily handled and sized to permit passage through building openings.

B. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

C. Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes, and other fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal contact surfaces of cut edges.

D. In freestanding base casework with utilities, provide enclosed chase from penetration into casework (includes through floor penetrations) to termination at fixture. Utilities to be entirely concealed by chase. Provide plastic laminate clad face and edged banded removable access panels as necessary for full accessibility to utilities. Access panels to be located at unexposed portion of casework. Chase and access panels shall in no way reduce or infringe on ADA and Title 24 accessibility requirements.

E. Install plastic grommets in the field in plastic laminate casework and [Owner][District]-furnished furniture as directed by the [Owner][District]'s Representative and/or Architect.

F. Install seismic shelf lips on all exposed edges of open laboratory shelving with flathead countersunk wood screws spaced 6" on center. Finish exposed screw heads to match color of shelf lip.

G. Install one adjustable shelf for each 12" of height for all wall mounted cabinets.

H. Provide stretcher at top face of all door and drawer fronts.

I. Fabricate base and full height cabinets 24" deep unless shown otherwise.

J. Fabricate wall mounted upper cabinets 12" deep unless shown otherwise.

K. Provide locks as indicated at location shown on Drawings for both doors and drawers.

L. Provide acid-resistant laminated plastic at all exposed surfaces (including shelves and interior of open front cabinets.)

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify adequacy of backing and support framing.

3.2 INSTALLATION

A. Set and secure casework in place rigid, plumb, and level.

B. Install casework in accordance with Installation of Architectural Millwork, Section 26 of the Manual of Millwork.

3.3 ADJUSTING AND CLEANING

A. Adjust doors, drawers, hardware, fixtures and other moving or operating parts to function smoothly and correctly.

B. Clean casework, shelves, hardware, fittings and fixtures.

3.4 SCHEDULE

A. All casework shall be plastic laminate covered unless specifically noted otherwise.

END OF SECTION

LANDSCAPING

Section 32 90 00

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope of Work: Furnish all labor, materials, tools, equipment, and transportation required to perform and complete the following work as specified herein:

1. Soil Preparation and Fertilization
2. Planting
3. Sodding
4. Weed Control
5. Mulch
6. Clean-up
7. Landscape Maintenance Period
8. Guarantee

B. Work not included in this Section: Landscape elements such as concrete walks, fencing, outdoor lighting, rough grading, and clearing are not a part of this Section unless shown on the landscape Drawings.

C. Construction Documents and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications sections, apply to this section.

1.2 RELATED SECTIONS

A. SUBMITTAL PROCEDURES: Section 01 33 00.

B. CLOSEOUT PROCEDURES: Section 01 77 00.

C. EARTHWORK: Section 31 00 00.

D. IRRIGATION: Section 32 80 00.

1.3 GUARANTEE

A. The guarantee period for lawn and plant material shall be the duration of the

landscape maintenance period, from commencement until final acceptance of the work of this Section. See Division 01 for other applicable guarantee requirements.

B. During the guarantee period, repair and/or replace plants and lawn not in satisfactory growing condition, as determined by Owner's Representative, without additional cost to Owner. Plants are to be replaced as per "Landscape Maintenance" in Part 3.8 of this Section, using plants of the same kind and size specified in plant list.

1.4 QUALITY CONTROL

A. Qualifications: Work must be completed by a licensed Landscape Contractor. Provide proof of five years of continuous experience in landscaping and irrigation of projects of similar size (+\- 20% of the construction cost) and scope for education campuses. Contractor to have a minimum of two projects either completed or in construction in the last five years.

B. Work Force: Ensure that an experienced foreman is present at all times during installation. Keep the same foreman and workers on the job from commencement to completion.

C. Reviews: Specifically request reviews of all items listed below in "Inspection Requirements" prior to progressing to the next level of work. The Owner's Representative reserves the right to inspect and reject material, both at place of growth and at site, before and/or after planting, for compliance with requirements for name, variety, size and quality.

D. Reference Standards: Meet or exceed Federal, State and County laws requiring inspection of all plants and planting materials for plant disease and insect control.

E. Delivery, Storage, and Handling:

1. Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of conformance with state and federal laws if applicable.

2. Bulk Materials:

a. Do not dump or store bulk materials near structures, utilities, walkways or pavements, or on existing turf areas or plants.

b. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.

c. Accompany each delivery of bulk fertilizers and soil amendments with appropriate certificates.

F. Plant Material:

1. Conform to the current edition of Horticultural Standards for quality of Number 1 grade nursery stock as adopted by the American Association of Nurserymen. Conform to sizes specified on plant legend. Select plants which have a natural shape and appearance.

2. Select only plants that are true to name, and tag one of each bundle or lot with the name of the plant in accordance with the standards of practice of the American Association of Nurserymen. In all cases, botanical names shall take precedence over common names.

3. Tag each plant of a patented variety with the variety and identification number, where applicable, as it is delivered to the job site.

4. Select only plants which have been nursery-grown in accordance with good horticultural practices and which have been grown under climatic conditions similar to those in the locality of the project for at least one year.

5. Select only plants which are typical of their species or variety; have normal habits of growth; are sound, healthy, vigorous, well-branched and densely-foliated when in leaf; are free of disease, insect pests, eggs or larvae; and have a healthy and well-developed root system.

6. Select only container stock that has been grown in the containers in which delivered for at least six (6) months, but not over two (2) years. Provide samples to show that there are no root-bound conditions.

7. Do not use plants that are severely pruned or headed-back to meet size requirements.

8. Do not plant container-grown plants that have cracked or broken balls of earth when taken from the container. Remove canned stock carefully from cans after containers have been cut on two sides with tin snips or other approved cutter.

9. Coordinate a time for the Landscape Architect to inspect the plants upon their delivery to the project site.

10. At any time prior to final acceptance, be prepared to replace any plants that are rejected by the Owner's Representative because of physical damage to

the plant.

11. Do not remove container-grown stock from containers before time of planting.

12. Be prepared to replace plants which are rejected by the Owner's Representative for the following reasons:

    a. Trunk bark damage caused by sunburn,

    b. Trunk bark wounds caused by rubbing stakes or ties,

    c. Trunk bark damage caused by ties that have girdled the tree,

    d. Tree head development that is lopsided and not symmetrical in form,

    e. Tree branches that cross or touch,

    f. Tree branches with double leaders (unless multi-trunk trees are specified).

13. Stake shrubs with one-inch by one-inch by eighteen-inch (1"x1"x18") stakes in such manner that the stakes are not visible, and tie to upright position if they lean and/or are not growing in a vertical position.

14. Furnish quantities necessary to complete the work as shown on the Drawings and, if necessary, make up for any discrepancies in the quantities given in the Plant List at no additional cost to Owner.

G. Comply with the requirements of Section 01 77 00 – CLOSEOUT PROCEDURES.

1.5 INSPECTION REQUIREMENTS

A. Landscape Architect reserves the right to examine and reject plant material both at place of growth and at site, before and after planting, for compliance with requirements of name, variety, size, and quality.

B. Request and hold a pre-construction meeting prior to beginning the work of this Section. Parties required to be in attendance are the Landscape Contractor, Project Inspector, Owner's Representative, and Landscape Architect.

C. Obtain verification from Project Inspector for the following at the appropriate times during construction and prior to further progression of work in this Section:

1. Rough grading is to tolerances specified in Section 31 00 00 – EARTHWORK.

2. The placement of landscape backfill material is as specified in this Section.

3. Prior to the commencement of the work specified in this Section, the coverage

and operation of the sprinkler irrigation system are as specified in Section 32 80 00 - IRRIGATION.

4. The soil amendment does not include any metal fragments. (Obtain a letter from the manufacturer stating that the material submitted for use on this project has no metal or foreign objects. Submit this letter as part of the Data Sheet submittal package [see "Submittals and Substitutions" in this Section])

5. Required Test: For each load of soil amendment delivered to the site, spread at least two cubic yards (2 cy) of material onto a paved surface approximately two inches (2") deep. Pass a magnetic rake over the material in two directions. If any metal is found, test the entire load in the same manner. Perform all testing in the presence of the Project Inspector.

6. Soil amendments, fertilizer, bark mulch and materials used for hydroseeding have been delivered to the site by the supplier, the invoices from the supplier indicate the project name and quantities delivered, and the Project Inspector has received copies of all such documents.

7. Prior to planting, amendments and conditioners have been incorporated as per pre-planting recommendations, and planting areas have been made ready to receive planting.

D. In case of failure to obtain any verification by the Project Inspector as required above, remove and replace work as necessary to obtain the verification at no additional cost to the Owner.

E. Beginning of Maintenance Period: Verify all work is complete, then request and hold a meeting to include the Landscape Architect, Project Inspector, Architect and Owner's Representative for authorization to begin the landscape maintenance period.

F. End of Maintenance: Verify that all work is complete and acceptable, and that the maintenance has been completed per specifications; and continue to provide landscape maintenance until the Owner's Representative has accepted the work.

1.6 SUBMITTALS AND SUBSTITUTIONS

A. See Section 01 33 00 – SUBMITTAL PROCEDURES for additional requirements.

B. Plant Material: Within fifteen (15) days after award of contract, locate plant materials required for construction. Ensure that trees and shrubs are contract-grown from a certified nursery. Notify Owner's Representative of plant material "tied off" for review at selected nursery. If specified material is not obtainable, submit the following to Owner's Representative: proof of non-availability, proposal for use of equivalent material, photographs of alternative choices of

plant material. Include clear, written description of type, size, condition, and general character of plant material.

C. Data Sheets: Provide product data for each type of landscape material indicated in the Drawings and Specifications.

D. Samples: Submit samples of the following materials to Landscape Architect for approval:

1. Soil amendment: (3) one-quart zip-locked plastic bags.

2. Bark Mulch: (3) one-quart zip-locked plastic bags.

3. Imported Topsoil: (3) one-quart zip-locked plastic bags. (if needed)

E. Provide soils analysis reports prepared by a qualified soils laboratory in compliance with the Soil Testing Requirements under "Soil Testing" in Part 3.02 of this Section.

F. Prior to planting, submit copies of all trucking or packaging tags for all soil amendment, fertilizer and other additives to Landscape Architect so the quantities can be verified.

1.7 PROTECTION AND CLEAN-UP

A. Provide protection for persons and property throughout progress of work. Use temporary barricades as required. Proceed with work in such manner as to minimize spread of dust and flying particles and to provide safe working conditions for personnel. Store materials and equipment where directed.

B. Existing Construction: Execute work in an orderly and careful manner to protect paving, work of other trades, and other improvements.

C. Existing Utilities: Provide protection for existing utilities within construction area. At no additional cost to Owner, repair any damages to utility lines that occur as a result of this work.

D. Landscaping: Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades, and trespassers. Maintain protection during installation and maintenance periods.

E. Paving: Maintain cleanliness of paving areas and other public areas used by equipment, and immediately remove spillage; remove rubbish, debris, and other material resulting from landscaping work, leaving site in a safe and clean condition.

1.8 PLANTING SCHEDULE / ENVIRONMENTAL REQUIREMENTS

A. Install, establish, and maintain all lawn areas for a minimum of ninety (90) days prior to date of substantial completion. Coordinate schedule with other work and overall project schedule. Failure to install lawn areas by this date shall result in assessment of liquidated damages.

B. Proceed with work in an orderly and timely manner to complete installation of landscaping within contract limits.

C. Planting Season Limits: Do not plant when grounds are wet or temperature is below 25° F. Do not proceed with any soil preparation and fertilization if all planting cannot be completed within Planting Season Limit.

1.9 LANDSCAPE MAINTENANCE PERIOD REQUIREMENTS

A. Beginning of Landscape Maintenance Period:

1. General: Landscape Maintenance Period does not begin until all work is installed as determined by Landscape Architect, in writing.

2. On-site Inspection: When all work is complete, request and hold a meeting to include the Landscape Architect, Project Inspector, Architect and Owner's Representative who must together authorize and determine the start date for the landscape maintenance period. Coordinate and give notice of the date and time of the on-site meeting to all parties at least forty-eight (48) hours in advance.

3. Acceptability: In cases where the lawn has reached adequate fullness and germination in some areas but not all, and authorization has not been given to begin the maintenance period, proceed with mowing, trimming, spraying, etc., as necessary prior to the beginning of the maintenance period.

B. Duration of Landscape Maintenance Period:

The Landscape Maintenance Period shall continue for a minimum of ninety (90) calendar days. During this time, continuously maintain all areas involved until final acceptance of the work by the Owner's Representative. See Landscape Maintenance Period procedure in Part 3.8 of this Section.

C. Final Acceptance of the Landscape Maintenance Period:

Request the final inspection forty-eight (48) hours in advance. If items require attention, hold on-site meetings until Landscape Architect can certify, in writing,

and in concurrence with the Owner's Representative, the successful completion of the Landscape Maintenance Period.

1.10 RECORD DRAWINGS

Upon completion of work, and as a precedent to final payment, deliver to Owner's Representative one complete set of reproducible originals of Drawings showing work exactly as installed.

PART 2 - PRODUCTS

2.1 GENERAL

Use material in new and perfect condition as specified. Any deviations or substitutions from the Specification and Drawings must first be approved by Owner's Representative in writing prior to use.

2.2 SOIL PREPARATION MATERIALS

A. Topsoil: Fertile; friable; natural loam surface soil; reasonably free of subsoil, clay lumps, brush, weeds and other litter; and free of roots, stumps, stones/rocks, and other extraneous or toxic matter harmful to plant growth.

B. Soil Amendment: One-percent nitrogen-impregnated bark product with a ninety-percent (90%) bark base and zero to one-quarter inch (0-1/4") particle size, or approved equivalent. **Do not spread until testing requirements have been satisfied.**

C. Fertilizer/Soil Conditioner: Gro-Power Plus or approved equal.

D. Fertilizer for Trees and Shrubs: Seven-gram Gro-Power Planting Tablets (12-8-8 NPK) or approved equal.

E. Vitamin B-1: "Superthrive", "Liquinox Start", "Cal-Liquid", or approved equal.

2.3 MISCELLANEOUS LANDSCAPE MATERIALS

A. Bark Mulch: Untreated, shredded cedar.

B. Tree-staking System: As indicated on Drawings.

C. Pre-Emergent Weed Control: Oxadiazon, "Treeflan", "Ronstar 2G", "Surflan" (Elano Products Company), or approved equal.

2.4 PLANT MATERIAL:

A. Nursery Plant Stock:

1. As indicated on Drawings. Do not remove container-grown stock from containers until planting time. Plants shall be true to name.

2. Healthy, shapely, well-rooted, not pot-bound, free from insect pests or plant diseases and properly "hardened off" before planting. Replace plants that are not alive or are not in satisfactory growing condition, as determined by the Landscape Architect, without additional cost to Owner. The Landscape Architect may reject plants before and/or after planting.

3. Labeled. Label at least one tree and one shrub of each species with a securely-attached, waterproof tag bearing legible designation of botanical and common name.

B. Lawn Sod: Ninety percent (90%) dwarf fescue and ten percent (10%) Kentucky Bluegrass.

PART 3 - EXECUTION

3.1 SITE CONDITIONS

A. Examine the site, verify grade elevations, and observe conditions under which work is to be performed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to the Owner's Representative.

B. Proceed with complete landscape work as rapidly as portions of the site become available, working within seasonal limitations for each kind of landscape work required.

C. Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand-excavate, as required, to minimize possibility of damage to underground utilities. Maintain grade stakes set by others until removal is mutually agreed upon by parties concerned.

D. When conditions detrimental to sod or plant growth are encountered, such as rubble fill, adverse drainage condition, or other obstructions, notify the Owner's Representative before planting.

3.2 SOIL TESTING

A. Coordinate soil testing in an expeditious and timely manner as required for on-site topsoil materials. Contract with a soil laboratory and include cost of sampling and testing in contract price. Take one (1) sample for every 5,000 square feet of landscape area up to a maximum of six (6) samples under the direction of and in the presence of the Owner's Representative.

B. Submit each sample, according to the quantity of soil required by testing laboratory, to a competent laboratory approved by the Owner's Representative.

C. Provide analysis of soil samples for pH, salinity, ammonia, phosphate, potassium, calcium, magnesium, boron, and sodium levels. Provide appraisal of chemical properties, including particle size determination, and recommendations for types and quantities of amendments and fertilizers.

3.3 PREPARATION

A. Clearing of Vegetation:

1. If live perennial weeds exist on site at the beginning of work, spray with a non-selective systemic contact herbicide as recommended and applied by an approved licensed landscape pest control advisor and applicator. Leave sprayed plants intact for at least 15 days.

2. Clear and remove existing weeds by mowing or grubbing off all plant parts at least one-quarter inch (¼") inch below surface of soil over entire areas to be planted.

B. Soil preparation:

1. Loosen soil in all planting areas, and on slopes flatter than 3:1 gradient, to a depth of six to eight inches (6" - 8") below finish grade. All debris, foreign matter, and stones shall be removed prior to the placing of any fertilizers or conditioners. Soil preparation is for all shrub planting beds, lawn hydroseeded areas and sodded lawn areas.

2. Conduct the required soil tests and instruct the lab to include a minimum of the following soil improvements in the recommendation on the soils report.

   a. Soil Amendment: Two cubic yards (2 cy) per 1,000 square feet.

b. Gro-Power Plus: One hundred fifty pounds (150 lbs) per 1,000 square feet.

c. If the lab recommends less than six cubic yards (6 cy) of soil amendment, the excess bid amount shall be applied to the cost of any additional recommended soil improvements, or returned to the Owner as a credit

3. Apply amendments as follows, using rates recommended by the soils testing laboratory (the rates of amendments shown below are for bidding purposes only):

a. Fertilizer/Soil Conditioner: Broadcast 150 pounds of Gro Power Plus per 1,000 square feet in all planting areas and rototill to a depth of six to eight inches (6" - 8"). Remove from the site any rock and debris brought to the surface by cultivations.

b. Apply soil amendment to all planting areas at the rate of six cubic yards (6 cy) per 1,000 sf and rototill into the top six to eight inches (6" – 8").

4. Upon completion of finish grading, request a review and obtain approval of Landscape Architect prior to commencement of planting or hydroseeding.

C. Finish Grading for all Planting areas

1. Refer to Earthwork Specification Section for Rough Grading.

2. Grade to elevations and contours shown on Drawings. Fill low spots with landscape backfill material and grade to surface drain in manner indicated on Drawings.

3. Finish-grade so that the entire area within the contract lines has a natural and pleasing appearance as specified and as directed by Landscape Architect.

4. Adjust sprinkler heads one-half inch above finish grade in preparation to receive sod. Reset sprinkler heads flush to grade after turf has germinated.

5. Flag the sprinkler heads and valve markers.

D. Planting Pits for Trees:

1. Excavate pits with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage.

2. Set container-grown stock in center of pit on earth pedestal. Separate roots and/or prune roots as directed by Landscape Architect. In hot weather, pre-

wet pit. Loosen outside roots from sides and bottom of root ball. When set, place additional backfill around base and sides of root ball. Work each layer to settle backfill and eliminate voids and air pockets. Water after placing final layer of backfill.

3. Loosen hard subsoil in bottom of excavation. Extend excavation as required to insure proper drainage from plant pits.

4. Fill excavated planting pits with water to half the depth of pit. Pits should drain within four hours (4 hrs). If planting pits do not drain, notify Project Inspector immediately. Do not proceed with planting until Landscape Architect has resolved a method to provide drainage.

E. Planting Pits for Shrubs/Groundcover:

1. Excavate pits and trenches with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage.

2. Loosen hard subsoil in bottom of excavation. Extend excavation as required to insure proper drainage from plant pits.

3. Fill excavated planting pits with water to half the depth of pit. Pits should drain within four hours (4 hrs). If planting pits do not drain, notify Project Inspector immediately. Do not proceed with planting until Landscape Architect has resolved a method to provide drainage.

3.4 PLANTING

A. Lawn Sod:

1. Cultivate all lawn areas to a depth of six inches (6"). If cultivation does not break lumps, pull a spike-toothed harrow over the area behind the tractor.

2. Give all lawn areas that are to be sodded a smooth finish to prevent pockets. Do not allow any abrupt changes of surface. Prior to installation of sod, roll the grade with a 200-pound water-ballast roller. Request that the lawn grade be inspected and approved by the Landscape Architect prior to sodding to determine its suitability for planting. Obtain such approval prior to commencing sodding operations.

3. Do not take heavy objects (except lawn rollers) over lawn areas after they have been prepared for planting.

4. Completely lay the sod within twelve hours (12 hrs.) of delivery. Do not leave sod on pallets in the hot sun longer than necessary.

5. Unroll sod carefully. Lay sod tight without any visible open joints, and without overlapping; stagger end joints twelve inches (12") minimum. Do not stretch or overlap sod pieces. Do not place sod in pieces smaller than twenty-four inches (24") in length by width of roll.

6. When new sod is to match existing turf, cut the edge of the existing turf in a series of straight lines that will accept new sod rolls in full width of the sod roll. Make the transition of grade between existing turf and new sod to be seamless with no change in elevation.

7. Immediately after laying sod, roll lawn areas with a 200-pound water-ballast roller.

8. Trim sod to conform to lawn shapes designated in Drawings.

9. On slopes of six inches (6") per foot and steeper, lay sod perpendicular to slope and secure every row with wooden pegs at a maximum of two feet (2') on center. Drive pegs flush with soil portion of sod.

10. Ensure that finished appearance is that of one continuous lawn.

11. Do not lay whole lawn before watering. When a conveniently large area has been sodded, water lightly to prevent drying. Continue to lay sod and to water until installation is complete.

12. All sod areas must be approved by Landscape Architect.

13. Water the complete lawn surface thoroughly. Moisten soil at least eight inches (8") deep. Repeat sprinkling at regular intervals to keep sod moist at all times until rooted. After sod is established, decrease frequency and increase amount of water per application as necessary.

B. Trees, Shrubs, and Groundcover:

1. Lay out individual tree and shrub locations and areas for multiple plantings. Stake the locations, outline the areas, and secure the Owner's Representative's acceptance before beginning the planting work. Make minor adjustments as requested.

2. Scarify root ball prior to planting. Plant in holes twice the diameter of the root ball and to a depth equal to the container's height. Place the shrub and/or groundcover so the top of the root ball is one inch (1") higher than the surrounding grade; place the tree so that the crown of the trunk is two inches (2") higher than the surrounding grade. Set container-grown stock in center of pit. In hot weather, pre-wet the pit. When set, place additional backfill around base and sides of root ball. Work each layer to settle backfill and

eliminate voids and air pockets. Thoroughly compact lower half of backfill in plant pit. See staking or guying detail. Water after planting. Provide a berm or watering basin for each tree. Add Vitamin B-1, in the proper solution as recommended by the manufacturer, to the second watering of the basin.

3. Place fertilizer planting tablets in root zone and alongside each plant. Follow manufacturer's instructions for number of tablets to use for each container size.

4. See Drawings for additional information.

5. Grooming and Staking of Trees:

   a. Prune, thin-out and shape trees in accordance with standard horticultural practice. Prune trees to retain required height and spread. Unless otherwise directed by Landscape Architect, do not cut tree leaders, and remove only injured or dead branches from flowering trees.

   b. Paint cuts over one-half inch (½") in size with standard tree paint or compound, covering exposed, living tissue. Use paint that is waterproof, antiseptic, adhesive, elastic and free of kerosene, coal tar, creosote, and other substances harmful to plants. Do not use shellac.

   c. Stake or guy trees immediately after planting, as indicated on Drawings.

6. Grooming of Shrubs:

   a. Prune, thin-out and shape shrubs in accordance with standard horticultural practice. Prune shrubs to retain natural character and to accomplish their use in landscape design. The required plant size is its size after pruning.

   b. Remove and replace excessively pruned or malformed new plants resulting from improper pruning.

C. Request review by the Landscape Architect after locating, but prior to planting all trees. Under the direction of the Landscape Architect, make slight adjustments to plant material location as necessary to reflect original intention of Drawings.

3.5 WEED CONTROL

Apply pre-emergent weed control to all planting areas (except lawn) after completion of all planting and one complete watering. Follow manufacturer's directions. To prevent washing away of weed control, do not over-water after its application. Do not allow any weed control into lawn areas. Treat any existing noxious weeds, such as Johnson grass, with Roundup in successive treatments until all roots are destroyed, then remove all grass and roots. Notify Owner's Representative of time of installation for verification of application.

3.6 BARK MULCH

Apply mulch at the rate of three inches (3") deep to all planting areas, exclusive of lawn, after the planting and weed control are completed. Twelve inches (12") from planter edges, taper full depth of mulch to meet adjacent grades. Do not place mulch within three inches (3") of trunk or stems.

3.7 CLEAN-UP

A. During construction, keep the site free of rubbish and debris, and clean up the site promptly when notified to do so. Take care to prevent spillage on streets from hauling and immediately clean up any such spillage and/or debris deposited on streets due to the work of this Section.

B. During all phases of the construction work, take all precautions to abate dust nuisance by clean-up, sweeping, sprinkling with water, or other means as necessary.

3.8 LANDSCAPE MAINTENANCE

A. The Landscape Maintenance Period will begin when all the Landscape Maintenance Period Requirements have been met (See Part 1 of these Specifications).

B. Cleaning: Maintain cleanliness on paving areas and other public areas used by equipment and immediately remove all spillage. Remove from project site all rubbish and debris found thereon and all material and debris resulting from landscaping work, leaving the site in a safe and clean condition.

C. Maintenance:

1. Sprinkler Irrigation System:

a. Check system weekly for proper operation. Flush lateral lines out after removing last sprinkler head or two at each end of lateral. Adjust all heads as necessary for unimpeded coverage.

b. Set and program automatic controllers for seasonal water requirements. Provide the Owner's Representative with keys to the controllers and instructions on how to turn off system in case of emergency.

c. Repair all damages to sprinkler irrigation system as part of the contract work. Make repairs within one watering period or one week, whichever is the least amount of time.

2. Turf Areas:

   a. Begin mowing turf when grass has reached a height of three inches (3") and cut to a height of one and one-half inches to two inches (1 ½" - 2"). Mow at least weekly after the first cut. Turf must be well-established and free of bare spots and weeds, to satisfaction of Landscape Architect, prior to final acceptance. Do not mow lawns when the soil is not able to support maintenance equipment. Repair wheel marks and ruts caused by the maintenance equipment at no additional cost to the Owner.

   b. Pick up grass clippings and remove from the site and premises.

   c. Trim edges at least twice monthly for neat appearance. Vacuum or blow clippings off walks.

   d. Water the lawns at such frequency as weather conditions require to replenish soil moisture below the root zone. Normally, a total of one and one-half inches (1 ½") of water is needed weekly in hot weather.

   e. Fertilize the lawn areas at the beginning of the Landscape Maintenance Period and at the completion of the Landscape Maintenance Period. Use a fertilizer with the following characteristics:

      1.) Slow release, Best 16-6-8, or approved equal, at the rate of 6.25 lbs per 1,000 square feet from March through October.

      2.) Calcium Nitrate (15-0-0) at the rate of 6.5 lbs per 1,000 square feet from November through February.

   f. Broadcast fertilizer using a mechanical spreader; do not apply by hand-broadcasting. Sweep all fertilizer off hardscape into adjacent planters.

   g. Weekly as needed and as directed, re-sod lawn areas with material that matches previously installed material. Use sod to repair any bare areas. Repair areas to receive sod as follows:

      1.) Mark out areas to receive new sod repair.

      2.) Cut straight lines that will accept sod the full width of the roll and a minimum of twenty-four inches (24") in length.

      3.) Transition the grade between existing turf and new sod seamlessly, with no change in elevation.

3. Trees and Shrubs:

    a. Water enough that moisture penetrates throughout root zone and only as frequently as necessary to maintain healthy growth.

    b. Construct and/or remove water basins around each plant, depending on the time of the year and as directed.

    c. Do not prune unless directed by the Landscape Architect.

    d. Re-stake and re-tie trees as needed and as directed by the Landscape Architect. Do not allow tops of tree stakes to protrude into head of tree.

    e. Replace any dead, dying or vandalized plant material on a weekly basis throughout the Landscape Maintenance Period.

4. Insecticide and Herbicide Application:

    a. If needed, control weeds with selective herbicides and sprays. In areas where crabgrass has infested the lawn, apply pre-emergent herbicides such as Dacthal by Amvac, Balan, or Betasan by Gowan for control prior to crabgrass germination. Control insect pests if necessary.

    b. Use only a licensed Pest Control Operator to apply herbicides and sprays and to maintain a log for applications indicating material, timing, and rate.

5. Pre-scheduled On-site Meetings: Hold regularly-scheduled (monthly or bimonthly as determined by the Landscape Architect) on-site meetings with the Landscape Architect, Project Inspector and Owner's Representative. Dates and times will be jointly agreed upon.

6. Request, forty-eight hours (48 hrs.) in advance, on-site visits by the Landscape Architect to determine the end of the Landscape Maintenance Period.

END OF SECTION

SECTION 08 71 00
Door Hardware
(1400 Stanford Ranch)

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes: Finish Hardware for door openings, except as otherwise specified herein.

1. Door hardware for wood doors.

2. Door hardware for other doors indicated.

3. Keyed cylinders as indicated.

B. Related Sections:

1. Division 8: Wood Doors.

C. References: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.

1. Builders Hardware Manufacturing Association (BHMA)

2. NFPA 101 Life Safety Code

3. NFPA 80 -Fire Doors and Windows

4. ANSI-A156.xx- Various Performance Standards for Finish Hardware

5. UL10C – Positive Pressure Fire Test of Door Assemblies

6. ANSI-A117.1 – Accessible and Usable Buildings and Facilities

7. DHI /ANSI A115.IG – Installation Guide for Doors and Hardware

D. Intent of Hardware Groups

1. Should items of hardware not definitely specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.

2. Where items of hardware aren't definitely or correctly specified, are required for completion of the Work, a written statement of such omission, error, or other discrepancy to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality

established by this specification, and appropriate to the service intended.

1.2 SUBSTITUTIONS:

A. Under provisions of Division 1.

1.3 SUBMITTALS:

A. Comply with Division 1.

B. Special Submittal Requirements: Coordinate submittals of this Section with related Sections to ensure the "design intent" of the system/assembly is understood and can be reviewed together.

C. Product Data: Manufacturer's specifications and technical data including the following:

1. Detailed specification of construction and fabrication.

2. Manufacturer's installation instructions.

3. Wiring diagrams for each electric product specified. Coordinate voltage with electrical before submitting.

4. Submit 6 copies of catalog cuts with hardware schedule.

D. Shop Drawings - Hardware Schedule: Submit 4 complete reproducible copy of detailed hardware schedule in a vertical format.

1. List groups and suffixes in proper sequence.

2. Completely describe door and list architectural door number.

3. Manufacturer, product name, and catalog number.

4. Function, type, and style.

5. Size and finish of each item.

6. Mounting heights.

7. Explanation of abbreviations and symbols used within schedule.

8. Detailed wiring diagrams, specially developed for each opening, indicating all electric hardware, security equipment and access control equipment, and door and frame rough-ins required for specific opening.

E. Templates: Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing

and locations of cutouts and reinforcing.

1. Templates, wiring diagrams and "reviewed Hardware Schedule" of electrical terms to electrical for coordination and verification of voltages and locations.

F. Samples:

1. Not used

G. Contract Closeout Submittals: Comply with Division 1 including specific requirements indicated.

1. Operating and maintenance manuals: Submit 3 sets containing the following.

a. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.

b. Catalog pages for each product.

c. Name, address, and phone number of local representative for each manufacturer.

d. Parts list for each product.

2. Copy of final hardware schedule, edited to reflect, "As installed".

3. Copy of final keying schedule

4. As installed “Wiring Diagrams” for each piece of hardware connected to power, both low voltage and 110 volts.

5. One set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

1.4 QUALITY ASSURANCE

A. Comply with Division 1.

1. Statement of qualification for distributor and installers.

2. Statement of compliance with regulatory requirements and single source responsibility.

a. Distributor's Qualifications: Firm with 3 years experience in the distribution of commercial hardware.

b. Distributor to employ full time Architectural Hardware Consultants (AHC) for the purpose of scheduling and coordinating hardware and establishing keying schedule.

c. Hardware Schedule shall be prepared and signed by an AHC.

3. Installer's Qualifications: Firm with 3 years experienced in installation of similar hardware to that required for this Project, including specific requirements indicated.

4. Regulatory Label Requirements: Provide testing agency label or stamp on hardware for labeled openings.

a. Provide UL listed hardware for labeled and 20 minute openings in conformance with requirements for class of opening scheduled.

b. Underwriters Laboratories requirements have precedence over this specification where conflict exists.

5. Single Source Responsibility: Except where specified in hardware schedule, furnish products of only one manufacturer for each type of hardware.

B. Review Project for extent of finish hardware required to complete the Work. Where there is a conflict between these Specifications and the existing hardware, notify the Architect in writing and furnish hardware in compliance with the Specification unless otherwise directed in writing by the Architect.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Packing and Shipping: Comply with Division 1.

1. Deliver products in original unopened packaging with legible manufacturer's identification.

2. Package hardware to prevent damage during transit and storage.

3. Mark hardware to correspond with "reviewed hardware schedule".

4. Deliver hardware to door and frame manufacturer upon request.

B. Storage and Protection: Comply with manufacturer's recommendations.

1.6 PROJECT CONDITIONS:

A. Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as necessary for the proper installation and function, regardless of omissions or conflicts in the information on the Contract

Documents.

B. Review Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.7 WARRANTY:

A. Refer to Conditions of the Contract

1. Manufacturer's Warranty:

2. Closers: Ten years

3. Exit Devices: Three Years

4. Locksets & Cylinders: Three years

5. All other Hardware: Two years.

1.8 OWNER'S INSTRUCTION:

A. Instruct Owner's personnel in operation and maintenance of hardware units.

1.9 MAINTENANCE:

A. Extra Service Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals Section.

1. Special Tools: Provide special wrenches and tools applicable to each different or special hardware component.

2. Maintenance Tools: Provide maintenance tools and accessories supplied by hardware component manufacturer.

3. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra service materials.

B. Maintenance Service: Submit for Owner's consideration maintenance service agreement for electronic products installed.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS:

The following manufacturers are approved subject to compliance with requirements of the Contract Documents. Approval of manufacturers other than those listed shall

be in accordance with Division 1.

	Item	Manufacturer	Acceptable Substitute
A.	Hinges	Stanley	Bommer, McKinney
B.	Continuous Hinges	Stanley	Select, ABH
C.	Locksets	Best	Schlage
D.	Cylinders	Best	Schlage
E.	Exit Devices	Von Duprin	Precision
F.	Closers	LCN	Dorma
G.	Push/Pull Plates	Trimco	Hager, Rockwood
H.	Push/Pull Bars	Trimco	Hager, Rockwood
I.	Protection Plates	trimco	Hager, Rockwood
J.	Overhead Stops	ABH	Rixson, Glynn Johnson
K.	Door Stops	Ives	Trimco, Hager, Rockwood
L.	Flush Bolts	Ives	Trimco, ABH, Rockwood
M.	Coordinator & Brackets	Trimco	ABH, Rockwood
N.	Threshold & Gasketing	Pemko	Reese, National Guard

2.2 MATERIALS:

A. Hinges: Shall be Five Knuckle Ball bearing hinges

1. Template screw hole locations
2. Bearings are to be fully hardened.
3. Bearing shell is to be consistent shape with barrel.
4. Minimum of 2 permanently lubricated non-detachable bearings on standard weight hinge and 4 permanently lubricated bearing on heavy weight hinges.
5. Equip with easily seated, non-rising pins.
6. Non Removable Pin screws shall be slotted stainless steel screws.
7. Hinges shall be full polished, front, back and barrel.

8. Hinge pin is to be fully plated.

9. Bearing assembly is to be installed after plating.

10. Sufficient size to allow 180-degree swing of door

11. Furnish five knuckles with flush ball bearings

12. Provide hinge type as listed in schedule.

13. Furnish 3 hinges per leaf to 7 foot 6 inch height. Add one for each additional 30 inches in height or fraction thereof.

14. Tested and approved by BHMA for all applicable ANSI Standards for type, size, function and finish

15. UL10C listed for Fire

B. Physical Characteristics:

1. Lock dimensions shall not protrude more than 4-1/4" from face of the door. Operational Temperature Range 31 degrees F below zero / 150 degrees F above zero with standard alkaline batteries.

2. Humidity up to 95% without condensation.

3. Power Supply - 4 AA alkaline pack (included).

4. Power Consumption 20 mA in standby mode.

C. Cylindrical Type Locks and Latchsets:

1. Tested and approved by BHMA for ANSI A156.2, Series 4000, Operational Grade 1, Extra-Heavy Duty, and be UL10C listed

2. Fit modified ANSI A115.2 door preparation

3. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty

4. Locksets to have anti-rotational studs that are thru-bolted

5. Keyed lever shall not have exposed "keeper" hole

6. Each lever to have independent spring mechanism controlling it

7. 2-3/4 inch (70 mm) backset

8. 9/16 inch (14 mm) throw latchbolt

9. Provide sufficient curved strike lip to protect door trim

10. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy

11. Keyed lever to be removable only after core is removed, by authorized control key

12. Provide locksets with 7-pin removable and interchangeable core cylinders

13. Hub, side plate, shrouded rose locking pin to be a one-piece casting with a shrouded locking lug.

14. Locksets outside locked lever must withstand a minimum 1400 inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset

15. Core face must be the same finish as the lockset

16. Functions and design as indicated in the hardware groups

D. Exit Devices shall:

1. Tested and approved by BHMA for ANSI 156.3, Grade 1

2. Provide a deadlocking latchbolt

3. Non-fire rated exit devices shall have cylinder dogging.

4. Touchpad shall be “T” style

5. Exposed components shall be of architectural metals and finishes.

6. Lever design shall match lockset lever design

7. Provide strikes as required by application.

8. Fire exit devices to be listed for UL10C

9. UL listed for Accident Hazard

10. Shall consist of a cross bar or push pad, the actuating portion of which extends across, shall not be less than one half the width of the door leaf.

11. Provide vandal resistant or breakaway trim

12. Aluminum vertical rod assemblies are acceptable only when provide with the manufacturers optional top and bottom stainless steel rod guard protectors

E. Door Closers shall:

1. Tested and approved by BHMA for ANSI 156.4, Grade 1
2. UL10C certified
3. Closer shall have extra-duty arms and knuckles
4. Conform to ANSI 117.1
5. Maximum 2 7/16 inch case projection with non-ferrous cover
6. Separate adjusting valves for closing and latching speed, and backcheck
7. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions
8. Full rack and pinion type closer with 1½" minimum bore
9. Mount closers on non-public side of door, unless otherwise noted in specification
10. Closers shall be non-handed, non-sized and multi-sized.

F. Door Stops: Provide a dome floor or wall stop for every opening as listed in the hardware sets.

1. Wall stop and floor stop shall be wrought bronze, brass or stainless steel.
2. Provide fastener suitable for wall construction.
3. Coordinate reinforcement of walls where wall stop is specified.
4. Provide dome stops where wall stops are not practical. Provide spacers or carpet riser for floor conditions encountered

G. Over Head Stops: Provide a Surface mounted or concealed overhead when a floor or wall stop cannot be used or when listed in the hardware set.

1. Concealed overhead stops shall be heavy duty bronze or stainless steel.
2. Surface overhead stops shall be heavy duty bronze or stainless steel.

H. Push Plates: Provide with four beveled edges ANSI J301, .050 thickness, size as indicated in hardware set. Furnish oval-head countersunk screws to match finish.

I. Pulls with plates: Provide with four beveled edges ANSI J301, .050 thickness Plate s with ANSI J401 Pull as listed in hardware set. Provide proper fasteners for door construction.

J. Push Pull Bars: Provide ANSI J504, .1" Dia. Pull and push bar model and series as listed in hardware set. Provide proper fasteners for door construction.

K. Kickplates: Provide with four beveled edges ANSI J102, 10 inches high by width less 2 inches on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

L. Mop plates: Provide with four beveled edges ANSI J103, 4 inches high by width less 1 inch on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

M. Door Bolts: Flush bolts for wood or metal doors.

1. Provide a set of Automatic bolts ANSI/BHMA 156.3 Type 25 for hollow metal label doors.

2. Provide a set of Automatic bolts ANSI/BHMA 156.3 Type 27 at wood label doors.

3. Manual flush bolts ANSI/BHMA 156.16 at openings where allowed local authority.

4. Provide Dust Proof Strike ANSI/BHMA 156.16 at doors with flush bolts without thresholds.

N. Coordinator and Brackets: Provide a surface mounted coordinator when automatic bolts are used in the hardware set.

1. Coordinator shall comply with ANSI/BHMA A1156.3 Type 21A full width of the opening.

2. Provide mounting brackets for soffit applied hardware.

3. Provide hardware preparation (cutouts) for latches as necessary.

O. Power Supply: Provide power supply for (ELR) Electric Latch Retraction exit devices

1. Motherboard will accept up to four plug-in Control Modules. Provide the appropriate necessary control module to operate the number of ELR exit devices used at each opening. The Control Module shall include a Time delay Feature, variable (0-4 minutes) latch retraction period in response to a momentary input.

2. UL Listed for class II output

3. Include circuit breakers for protection of motherboard

4. 115 or 230 Volt user selectable switch, with AC input= 115 Volt at 1 Amp

5. Control module shall include Fire alarm terminal and Auxiliary contacts for remote signaling.

6. Optional card for Battery Backup (BT) power tap module to operate a Card reader or when ELR devices require battery backup (Lead Acid Batteries are not included and is to be furnished by others)

7. Precision ELR150 Series with the required modules.

P. Seals: All seals shall be finished to match adjacent frame color. Seals shall be furnished as listed in schedule. Material shall be UL listed for labeled openings.

Q. Weatherstripping: Provide at head and jambs only those units where resilient or flexible seal strip is easily replaceable. Where bar-type weatherstrip is used with parallel arm mounted closers install weatherstrip first.

1. Weatherstrip shall be resilient seal of Vinyl, Neoprene or Silicone

2. UL10C Positive Pressure rated seal set when required.

R. Door Bottoms/Sweeps: Surface mounted or concealed door bottom where listed in the hardware sets.

1. Door seal shall be resilient seal of Neoprene or Silicone

2. UL10C Positive Pressure rated seal set when required.

S. Thresholds: Thresholds shall be aluminum beveled type with maximum height of ½" for conformance with ADA requirements. Furnish as specified and per details. Provide fasteners and screws suitable for floor conditions.

T. Silencers: Furnish silencers on all interior frames, 3 for single doors, 2 for pairs. Omit where any type of seals occur.

2.3 FINISH:

A. Designations used in Schedule of Finish Hardware - 3.5, and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products

B. Powder coat door closers to match other hardware, unless otherwise noted.

C. Aluminum items shall be finished to match predominant adjacent material. Seals to coordinate with frame color.

2.4 KEYS AND KEYING:

A. Provide keyed brass construction cores and keys during the construction period. Construction control and operating keys and core shall not be part of the Owner's permanent keying system or furnished in the same keyway (or key

section) as the Owner's permanent keying system. Permanent cores and keys (prepared according to the accepted keying schedule) will be furnished to the Owner.

B. Cylinders, removable and interchangeable core system: Best Patented CorMax 7-pin.

C. Permanent keys and cores: Stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate."

D. Transmit Grand Masterkeys, Masterkeys and other Security keys to Owner by Registered Mail, return receipt requested.

E. Furnish keys in the following quantities:

1. 2 each Grand Masterkeys

2. 4 each Masterkeys

3. 2 each Change keys each keyed core

4. 15 each Construction masterkeys

5. 3 each Control keys

F. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Hardware Supplier. Construction cores and keys remain the property of the Hardware Supplier.

G. Keying Schedule: Arrange for a keying and programming meeting with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct, programming and keying complies with project requirements. Furnish 3 typed copies of keying schedule to Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verification of conditions: Examine doors, frames, related items and conditions under which Work is to be performed and identify conditions detrimental to proper and or timely completion.

1. Do not proceed until unsatisfactory conditions have been corrected.

3.2 HARDWARE LOCATIONS:

A. Mount hardware units at heights indicated in the following publications except as specifically indicated or required to comply with the governing regulations.

1. Recommended Locations for Builder's Hardware for Standard Steel Doors and Frames, by the Door and Hardware Institute (DHI).

2. Recommended locations for Architectural Hardware for flush wood doors (DHI).

3. WDMA Industry Standard I.S.-1A-04, Industry Standard for Architectural wood flush doors.

3.3 INSTALLATION:

A. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

B. Conform to local governing agency security ordinance.

C. Install Conforming to ICC/ANSI A117.1 Accessible and Usable Building and Facilities.

1. Adjust door closer sweep periods so that from the open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the landing side of the door.

D. Installed hardware using the manufacturers fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.

3.4 FIELD QUALITY CONTROL AND FINAL ADJUSTMENT

A. Contractor/Installers, Field Services: After installation is complete, contractor shall inspect the completed door openings on site to verify installation of hardware is complete and properly adjusted, in accordance with both the Contract Documents and final shop drawings.

1. Check and adjust closers to ensure proper operation.

2. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.

a. Verify levers are free from binding.

b. Ensure latchbolts and dead bolts are engaged into strike and hardware

is functioning.

3. Report findings, in writing, to architect indicating that all hardware is installed and functioning properly. Include recommendations outlining corrective actions for improperly functioning hardware if required.

3.5 SCHEDULE OF FINISH HARDWARE:

Refer to plans for door handing unless otherwise noted.

Hardware: A (RECEPTION, HOSPITALITY)
Door #101, 105 – Single Door w/ Card Reader
Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	POWER TRANSFER	EPT-2	VON
1 EA	LOCKSET	9KW-7-DEU-14-K-626-Review Dwgs for Handing	BEST
1 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
1 EA	FLOOR STOP	FS436, US26D	IVE
1 EA	SMOKE SEALS	S88 D 10'	PEM
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	DOOR BOTTOM - AUTO	434_RL	PEM
3 EA	SILENCER	608	PEM

Hardware: B (LARGE CONFERENCE)
Door #103A – Pair Doors
Each Assembly to have:

6 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
2 EA	PUSHBAR	98-47WDC-TL-F-_-626-3'-Both-LBE-626-05 Sparta	VON
2 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
2 EA	FLOOR STOP	FS436, US26D	IVE
2 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	SMOKE SEAL	S88 D 20'	PEM
2 EA	SILENCER	608	PEM

Hardware: C (LARGE CONFERENCE)
Door #103B, 103C, 103D – Single Door
Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	PUSHBAR	98-47WDC-TL-F- -626-3'-LBE-626-05 Sparta	VON
1 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
1 EA	FLOOR STOP	FS436, US26D	IVE
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN

1 EA	SMOKE SEAL	S88 D 17'	PEM
3 EA	SILENCER	608	PEM

Hardware: D (STORAGE/IDF - SINGLE)

Door #108 – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-D-14-K-S3 x 626, STOREROOM	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
3 EA	SILENCER	608	PEM
1 EA	DOOR BOTTOM - AUTO	434_RL	PEM

Hardware: E (PRE-FUNCTION)

Door #117C – Pair Doors w/ Card Reader

Each Assembly to have:

6 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
2 EA	PUSHBAR	98-47WDC-TL-F-_-626-3'-Both-LBE-626-05 Sparta	VON
2 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
2 EA	FLOOR STOP	FS436, US26D	IVE
2 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
2 EA	SILENCER	608	PEM

Hardware: F (JANITOR - SINGLE)

Door #119, 201- Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-D-14-K-S3 x 626, STOREROOM	BLS
1 EA	FLOOR STOP	FS436, US26D	IVE
3 EA	SILENCER	608	PEM

Hardware: G (BREAKROOM)

Door #119, 255A, 255B – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-N-14-K-S3 x 626, PASSAGE	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
3 EA	SILENCER	608	PEM

Hardware: H (OFFICE)

Door #120, 121, 272 – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-B-14-K-S3 x 626, OFFICE	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
3 EA	SILENCER	608	PEM

Hardware: J (SINGLE OCCUPANCY TOILET)

Door #107 – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-E-14-K-S3 x 626, SERVICE STATION	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
3 EA	SILENCER	608	PEM

Hardware: K (WOMENS TOILET)

Door #106 – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-0-N-14-K-S3 x 626, PASSAGE	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	STOP	WS404CVX, US26D	IVE
3 EA	SILENCER	608	PEM

Hardware: N (SUITE ENTRY)

Door #255A, 255B – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-R-14-K-S3 x 626, L/C CLASSROOM	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
1 EA	DOOR SEALS	S88-10', GRAY	PEM

Hardware: O (STORAGE)

Door #111A – Pair Doors w/ Card Reader

Each Assembly to have:

6 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	POWER TRANSFER	EPT-2	VON
1 EA	LOCKSET	9KW-7-DEU-14-K-626-Review Dwgs for Handing	BEST
1 EA	FLUSH BOLTS	FB41P-630	IVE

2 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
2 EA	FLOOR STOP	FS436, US26D	IVE
2 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	SMOKE SEAL	S88 D 20'	PEM
2 EA	SILENCER	608	PEM
2 EA	DOOR BOTTOM - AUTO	434_RL	PEM

Hardware: P (STORAGE)

Door #111B – Pair Doors

Each Assembly to have:

6 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-D-14-K-S3 x 626, STOREROOM	BLS
1 EA	FLUSH BOLTS	FB41P-630	IVE
2 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
2 EA	FLOOR STOP	FS436, US26D	IVE
1 EA	DOOR SEALS	S88-20', GRAY	PEM
2 EA	SILENCER	608	PEM
2 EA	DOOR BOTTOM - AUTO	434_RL	PEM

Hardware: Q (DOCUMENT PROCESSING)

Door #116 – Single Door w/ Card Reader

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	POWER TRANSFER	EPT-2	VON
1 EA	LOCKSET	9KW-7-DEU-14-K-626-Review Dwgs for Handing	BEST
1 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
3 EA	SILENCER	608	PEM

Hardware: S (SERVER)

Door #126 – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-R-14-K-S3 x 626, L/C CLASSROOM	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVES
1 EA	DOOR SEALS	S88-17', GRAY	PEM
1 EA	DOOR BOTTOM - AUTO	434_RL	PEM

Hardware: T (CONFERENCE)

Door #104 – (Single Door w/ Card Reader)

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	POWER TRANSFER	EPT-2	VON
1 EA	LOCKSET	9KW-7-DEU-14-K-626-Review Dwgs for Handing	BEST
1 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
3 EA	SILENCER	608	PEM

MANUFACTURER LIST

Code	Name
AB	ABH Manufacturing Inc.
BEST	Best Access Systems
DM	Dorma Door Controls
HE	HES
GLY	Glynn Johnson
IVE	Ives
LCN	LCN
NGP	National Guard Products
PEM	Pemko
PR	Precision
SCH	Schlage
SD	Security Door Controls
ST	Stanley
TRCO	Trimco
VON	Von Duprin

FINISH LIST

Code	Description
PC	Prime Coat
626	Satin Chromium Plated
630	Satin Stainless Steel
689	Aluminum Painted
GREY	Grey
BLACK	Black
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

END OF SECTION

SECTION 08 80 00
Glazing

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Glass and glazing for hollow metal work, windows, and doors.

B. Mirror glass, one-way reflective mirror glass.

1.2 SECTION EXCLUDES

A. Factory glazing of aluminum windows.

1.3 REFERENCES

A. ANSI Z97.1 - Safety Performance Specifications and Methods of Test for Safety Glazing Used in Buildings.

B. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.

C. ASTM C1036 - Standard Specification for Flat Glass.

D. ASTM C1048 - Standard Specification for Heat Strengthened and Fully Tempered Flat Glass.

E. ASTM C1172 – Standard Specification for Laminated Architectural Flat Glass.

F. GANA - Glazing Manual (50th Edition) and Sealant Manual (2008 Edition).

G. UL - Underwriters' Laboratories, Inc., Building Materials Directory.

1.4 QUALITY ASSURANCE

A. Conform to Glass Association of North America (GANA) Glazing Manual and Sealant Manual for glazing installation methods.

1.5 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Product Data: Provide structural, physical and environmental characteristics, size limitations, and special handling or installation requirements for glass. Provide data on glazing sealant. Identify colors available.

C. Submit two 12" square Samples, illustrating each glass coloration.

D. Submit 12" long bead of glazing sealant in color selected.

E. Submit sealed glass unit manufacturer's certificate indicating units meet or exceed specified requirements.

1.6 DELIVERY, STORAGE, AND PROTECTION

A. Deliver, store and protect products under provisions of Section 01 87 00.

1.7 WARRANTY

A. Provide manufacturer's warranty against defects in material, including loss of hermetic seal insulating units, for a period of 5 years after date of Substantial Completion.

B. Include coverage for reflective coating on mirrors and replacement of same.

C. Include coverage for delamination of laminated glass and replacement of same.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Laminated Glass:

1. Ford Glass Division.
2. Guardian Industries Corp., www.guardianglass.com
3. Vitro Architectural Glass , Inc., www.vitroglazings.com
4. HGP and Affiliates Inc., hyperformanceglassproducts.com
5. AGC Industries, Inc., www.agcglass.com
6. Spectrum Glass Products, Inc.
7. Oldcastle Building Envelope., obe.com
8. Viracon, Inc., www.viracon.com

B. Fire-Resistive Safety Glazing: Fire Lite Plus.

1. Nippon Electric Glass, Co., www.neg-us.com
2. Technical Glass Products, technicalglass.com

C. Tempered Glass:

1. Guardian Industries Corp., www.guardian.com
2. Ford Glass Division.
3. Pilkington Glass Ltd., www.pilington.com
4. Vitro Architectural Glass., www.vitroglazings.com
5. HGP and Affiliates Inc., hyperformanceglassproducts.com
6. AGC Industries, Inc., www.agcglass.com
7. Spectrum Glass Products, Inc.
8. Oldcastle Building Envelope., obe.com
9. Viracon, Inc., www.viracon.com

D. Mirror Glass:

1. CRL Laurence Co., Inc., www.crlaurence.com
2. Ford Glass Division.
3. Vitro Architectural Glass www.vitroglazings.com
4. Pilkington Glass Ltd., www.pilington.com
5. Avalon Mirror., avalonmirrorglass.com

E. Substitutions: Under provisions of Section 01 62 00.

2.2 GLASS MATERIALS, GENERAL

A. Primary Glass Standard: Comply with ASTM C1036 requirements, including reference to type, class, quality, and, if applicable, form, finish, mesh and pattern.

B. Laminated Glass Standard: Comply with ASTM C1172 requirements including reference to type, class, quality and if applicable, form, finish and pattern.

C. Tempered Glass Standard: Comply with ASTM C1048 requirements, including those indicated by reference to kind, condition, type, quality, class, and, if applicable, form, finish, and pattern.

D. Visual Light Transmission and Heat Gain: Conform to requirements indicated.

E. Sizes: Fabricate glass to sizes required for glazing openings, with edge

clearances and tolerances complying with recommendations of glass manufacturer and GANA.

F. Provide thicknesses indicated or, if not indicated, as recommended by glass manufacturer for application indicated.

2.3 PRIMARY GLASS PRODUCTS

A. Clear Float Glass: ASTM C1036, Type I (transparent glass, flat), Class 1 (clear), Quality q3 (glazing select). Low E coating on No. 2 surface of exterior glass.

B. Mirror Glass: ASTM C1036, Type I Transparent Glass, Flat; Class 1, Clear; q1 mirror select; 1/4" thick with pressure-sensitive adhesive coated scrim-impregnated film tape safety backing.

2.4 FIRE-RESISTIVE GLAZING

A. Clear Glass: 7/8" thick; complying with ANSI Z97.1 and listed by UL.

2.5 TEMPERED GLASS PRODUCTS

A. Manufacturing Process: Horizontal (roller hearth) process with roll wave distortion parallel with bottom edge of glass as installed.

B. Clear Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type 1 (transparent glass, flat) Class 1 (clear), Quality q3 (glazing select); conforming to ANSI Z97.1.

2.6 GLAZING SEALANTS AND PREFORMED GLAZING TABS

A. General: Comply with ASTM C920, and sealant and glass manufacturers' recommendations for suitability and compatibility.

B. One-Part Butyl Glazing Sealant:

1. Bostik Construction Products Div., www.bostik-us.com

2. Norton Performance Products., www.nortonabrasives.com

3. "BC 158"; Pecora Corp., www.pecora.com

4. "757 Butyl Sealant"; or approved equal

C. One-Part Acid-Curing Silicone Glazing Sealant: Type S; Grade NS; Class 25:

1. Bostik Construction Products Div., www.bostik.com

2. " Dowsil 999A Silicone Glazing Sealant"; Dow Corning Corp., www.dow.com

3. "SCS2000"; General Electric Corp., siliconeforbuilding.com

4. Pecora Corp., www.pecora.com

5. Sanofi, www.sanofi.com (healthcare)

6. Master Builders Solutions, www.master-builder-solutions.com

7. "Proglaze®"; Tremco.

D. Preformed Butyl-Polyisobutylene Glazing Tape With Spacer Rod:

1. "Chem-Tape 60";

2. "Shim-Seal";

3. Tremco® 440 Tape"; Tremco Inc., www.tremcosealants.com

2.7 GLAZING ACCESSORIES

A. Setting Blocks: Neoprene; EPDM or silicone blocks, 80-90 Shore A durometer hardness.

B. Spacer Shims: Neoprene; EPDM or silicone blocks, Shore A durometer hardness; self-adhesive one face.

C. Glazing Gasket: Resilient polyvinylchloride extruded shape to suit glazing channel retaining slot with prefabricated molded corners. Color to be selected by Architect from manufacturer's full range of colors.

D. Glazing Clips: Manufacturer's standard type.

E. Mirror Attachment Accessories: Mirror adhesive, chemically compatible with mirror coating and wall substrate.

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify surfaces of glazing channels or recesses are clean, free of obstructions, and ready for Work of this Section.

B. Beginning of installation means acceptance of substrate.

3.2 PREPARATION

A. Clean contact surfaces with solvent and wipe dry.

B. Seal porous glazing channels or recesses.

C. Prime surfaces scheduled to receive sealant.

3.3 INTERIOR - DRY METHOD (TAPE AND TAPE)

A. Cut glazing tape to length and set against permanent stops, projecting 1/16" above sight line.

B. Place setting blocks at 1/4 points with edge block no more than 6" from corners.

C. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.

D. Place glazing tape on free perimeter of glazing in same manner described above.

E. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.

F. Knife trim protruding tape.

3.4 INSTALLATION - MIRRORS

A. Set mirrors with adhesive, applied in accordance with adhesive manufacturer's instructions.

3.5 CLEANING

A. After installation, mark pane with an "X" by using plastic tape or removable paste.

B. Remove glazing materials from finish surfaces.

C. Remove labels after Work is completed.

END OF SECTION

SECTION 09 30 13
Ceramic Tile

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Glazed ceramic tile.

B. Unglazed ceramic tile.

C. Porcelain Tile Wall Panels.

D. Cementitious backing board.

E. Grout.

F. Accessories.

1.2 REFERENCES

A. ANSI/TCNA A108.5 - Ceramic Tile Installed with Dry-Set Portland Cement Mortar or Latex Portland Cement Mortar.

B. ANSI/TCNA A108/A118/A136- Interior Installation of Cementitious Backer Units.

C. ANSI/TCNA A137.1 - American National Standard Specifications for Ceramic Tile.

D. ASTM D226 - Standard Specification for Asphalt-Saturated Felt Used in Roofing and Waterproofing.

E. ASTM D2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.

F. TCNA (Tile Council of America) - Handbook for Ceramic Tile Installation.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Submit Product Data for all materials specified.

C. Samples: Mount tile and apply grout on two 24" x 24" plywood panels, representative of pattern, color variations, and grout joint size variations.

D. Submit manufacturer's installation instructions, maintenance data, and recommended cleaning and stain removal methods and cleaning materials.

1.4 QUALITY ASSURANCE

A. Conform to ANSI/TCNA A137.1 for tile material.

B. Conform to ANSI/TCNA Standards and TCA Handbook for tile installation.

1.5 QUALIFICATIONS

A. Manufacturer: Company specializing in the manufacture of products specified in this Section with minimum five years documented experience.

B. Installer: Company specializing in applying the Work of this Section with minimum five years documented experience.

C. Installer for thin porcelain tile panels to have a minimum of three documented years installation experience with this specific product.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Maintain 50°F during installation of mortar materials.

1.7 EXTRA STOCK

A. Provide extra quantity of full size tile and trim shape units to District under provisions of Section 01 77 00.

B. Provide quantity equal to 2% of units installed of each shape and color.

PART 2 - PRODUCTS

2.1 MANUFACTURERS - TILES

A. Dal-Tile Corp., www.daltile.com;

1. Or approved equal.

B. Substitutions: Under provisions of Section 01 62 00.

2.2 TILE MATERIAL

A. Ceramic Wall Tile: Colorbody Porcelain

1. Moisture Absorption: Over 3.0%.

2. Pattern: To be selected by Architect from manufacturer's full range of patterns.

3. Size: See plans.

4. Tile Thickness: 5/16".

5. Surface Finish: Matte Glazed, Glass Random.

6. Grout Joint Recommendation: 1/8" approximate.

7. Color(s): To be selected by Architect from manufacturer's full range of colors.

B. Ceramic Floor Tile: Glazed Porcelain.

1. Pattern: To be selected by Architect from manufacturer's full range of patterns.

2. Size: See plans.

3. Thickness: 3/16".

4. Grout Joint Recommendations: 1/8" approximate.

5. Surface Finish: Non-Slip with Coefficient of friction of 0.60 or greater, when tested in acceptance with ASTM D2047.

2.3 MANUFACTURERS - MORTAR AND GROUT

A. As recommended by the manufacturer for the application indicated.

2.4 MORTAR MATERIALS

A. Portland Cement Mortar Materials: ANSI/TCNA A108/A118/A136.

B. Latex-Portland Cement Mortar: ANSI/TCNA A108/A118/A136.

1. Acrylic resin latex additive.

2. Dry mortar mix supplied by latex manufacturer.

C. Porcelain Tile Panels:

1. ProLite Large Format Tile & Stone Mortar, by Custom Building Products.

2.5 GROUT MATERIALS

A. Epoxy Grout Materials: ANSI 118.3, ISO 13007, commercial type

1. Color: Architect to select from full range of manufacturer's colors.

2.6 ACCESSORIES

A. Membrane: ASTM D226; No. 15 asphalt saturated roofing felt.

B. Backing Board: ANSI/TCNA A108/A118/A136; high density, cementitious, glass fiber reinforced, 1/2" thick minimum; 2" wide coated glass fiber tape for joints and corners; manufacturer shall be licensed by TCA.

C. Sealant: Type specified in Section 07 92 00.

D. Shower Liner: Oatey CPE Pan liner

E. Levolution; Tile Leveling System/Flat Spacer by Miracle Sealants Company, www.rustoleum.com

2.7 MORTAR MIX AND GROUT MIX

A. Mix and proportion pre-mix setting bed and grout materials in accordance with manufacturer's instructions and referenced standards.

B. Epoxy Grout - employ epoxy grout resin and hardener portions at floor and walls.

2.8 SEALER

A. Tile and Grout Sealer: "Aqua Mix Penetrating Sealer" manufactured by Aqua Mix, Inc., (562) 946-6877, or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive Work.

B. Beginning of installation means installer accepts condition of existing surfaces.

3.2 PREPARATION

A. Protect surrounding Work from damage or disfiguration.

B. Vacuum clean existing surfaces and damp clean.

C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.

3.3 INSTALLATION - GENERAL

A. Install mortar, tile, and grout in accordance with ANSI/TCNA 108.5 and applicable tile installation standards of the TCNA Handbook.

B. Install membrane over substrate; weatherlap horizontal edges 4", lap vertical edges 6".

C. Lay tile to pattern indicated. If not indicated, request from Architect. Do not interrupt tile pattern around openings.

D. Cut and fit tile tight to penetrations through tile. Form corners and bases neatly. Align wall, base, and floor joints.

E. Tile installer to utilize Tile Leveling System/Flat Spacer. Installer will be held responsible if not used, and will be liable to replace uneven tiles & associated materials at their own expense. Architect has discretion to reject irregular tile installation.

F. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar or excess grout.

G. Form internal angles square and external angles bullnosed.

H. Sound tile after setting. Replace hollow sounding units.

I. Keep control joints free of mortar or grout. Apply sealant to joints.

J. Allow tile to set for a minimum of 48 hours prior to grouting.

K. Grout tile joints.

L. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

3.4 INSTALLATION - THINSET METHOD

A. Install mortar, tile, and grout in accordance with ANSI/TCNA 108.5 and applicable tile installation standards of the TCA Handbook. Shower areas in accordance with TCA

B. Install backing board in accordance with manufacturer's instructions and ANSI/TCNA A108/A118/A136. Tape joints and corners; cover with skim coat of dry-set mortar to a feather edge.

3.5 INSTALLATION - MORTAR BED METHOD

A. Install mortar, tile, and grout in accordance with ANSI/TCNA 108.5 and

applicable tile installation standards of the TCNA Handbook. Shower areas in accordance with TCNA

3.6 PORCELAIN TILE PANELS

A. Apply mortar to both the substrate and the panel backs. Mortar to be applied to a minimum 95% coverage to both panel backs and substrate. Apply as per Technical Bulletin , by Custom Building Products.

B. Installation & Setting Materials: Consult Technical Bulletin No. 46 by Custom Building Products, regarding materials and accessories.

C. Limit lippage of panels to 1/16".

D. Grouting Porcelain Panels: Strike grout joints clean of excess mortar which will reduce the effective depth of the grout.

3.7 CLEANING

A. Clean Work under provisions of 01 70 00.

B. Clean tile surfaces.

3.8 SEALING

A. Install sealer on all surfaces in accordance with manufacturer's instructions.

END OF SECTION

SECTION 09 53 00
Acoustical Ceiling Suspension Assemblies

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Suspended metal grid ceiling system.

B. Acoustical panels.

C. Perimeter trim.

1.2 REFERENCES

A. ASTM A513 – Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.

B. ASTM C635 – Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

C. ASTM C636 – Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

D. ASTM C641 – Standard Test Method for Iron Staining Materials in Lightweight Concrete Aggregates.

E. ASTM E580 – Standard Practice for Installation of Ceiling Suspension Systems from Acoustic Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions.

F. ASTM E1264 – Standard Classification of Acoustical Ceiling Products.

G. CBC California Building Code, Chapter 25A.

H. UL - Underwriters' Laboratories Building Material Directory.

1.3 QUALITY ASSURANCE

A. Manufacturer: Company specializing in manufacture of ceiling suspension system and ceiling panels with five years minimum experience.

B. Installer: Company with five years minimum documented experience, approved by manufacturer.

1.4 REGULATORY REQUIREMENTS

A. Conform to CBC Chapter 8, for suspension system requirements.

B. Conform to applicable UL and CBC combustibility requirements for materials.

1.5 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Provide Product Data on metal grid system components and acoustic units.

C. Submit two 6" squares Samples illustrating material and finish of acoustic units.

D. Submit two 12" long Samples of suspension system main runner, cross runner, and edge trim.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Maintain uniform temperature of minimum 60°F, and humidity of 20% to 40% prior to, during, and after installation.

B. All ceiling products and suspension systems must be installed and maintained in accordance with manufacturer's written installation instructions for that product in effect at the time of installation and best industry practice. Prior to installation, the ceiling product must be kept clean and dry, in an environment that is between 32°F (0°C) and 120°F (49°C) and not subject to Abnormal Conditions.

C. Abnormal conditions include exposure to chemical fumes, vibrations, moisture from conditions such as building leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

1.7 SEQUENCING/SCHEDULING

A. Do not install acoustical ceilings until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead Work is completed, tested, and approved.

B. Schedule installation of acoustic units after interior wet Work is dry.

1.8 EXTRA STOCK

A. Provide extra quantity of acoustic units to [Owner][District] under provisions of Section 01 77 00.

B. Provide quantity equal to 2% of units installed.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS - SUSPENSION SYSTEM

A. Armstrong Ceiling Systems. DSA Product Acceptance No. PA-041.

B. Chicago Metallic Corporation. DSA Product Acceptance No. PA-026.

C. USG Interior Systems, (DONN). DSA Product Acceptance No. PA-030.

D. Substitutions: Under provisions of Section 01 62 00.

2.2 SUSPENSION SYSTEM MATERIALS

A. Grid: ASTM C635, heavy duty, non-fire-rated, exposed "T" with 15/16" exposed flange; components die-cut and interlocking. 2' x 4' for acoustic panels and 2' x 2' for metallic panels.

B. Accessories: Stabilizer bars, clips, splices, and edge moldings required for suspended grid system.

C. Grid Materials: Commercial quality cold-rolled steel with galvanized coating.

D. Grid Finish: Off-White color, baked enamel.

E. Support Channels and Hangers: Galvanized steel; size and type to suit application, to rigidly secure acoustic ceiling system including integral mechanical and electrical components, as detailed on Drawings.

F. Compression Strut: ASTM A513, telescoping design as detailed on Drawings, galvanized 3/4" diameter 14 gauge rigid steel tubing with crimped end attached to roof framing and secured to 1/2" diameter 14 gauge rigid steel tubing with crimped end to main runners or equivalent pre-manufactured compression post supplied by ceiling grid manufacturer.

G. Hanger Wire: ASTM C641, Class 1 coating (galvanized), soft temper, No. 12 gauge.

2.3 ACCEPTABLE MANUFACTURERS - ACOUSTIC UNITS

A. Armstrong Ceiling Systems., www.armstrongceilings.com

B. Saint-Gobain, www.saint-gobain.com

C. Rockwool International, www.rockwool.com

D. USG Interiors, Inc., www.usg.com

E. Substitutions: Under provisions of Section 01 62 00.

2.4 ACOUSTIC UNIT MATERIALS

A. Acoustic Panels: ASTM E1264, conforming to the following:

1. Equivalent to "Prelude XL" panel, manufactured by Armstrong or approved equal.

a. Size: [24" x 48"] [24" x 24"].

b. Thickness: 3/4".

c. Composition: Nodulated mineral fiber.

d. Light Reflectance: 0.80%.

e. NRC Range: .55 to .65.

f. CAC Range: 33 to 39.

g. Edge: Reveal.

h. Surface Color: White.

i. Flame Spread :(0-25) Class A, UL 25 or under.

j. Smoke Density: Not to exceed 450 when tested in accordance with UL Standard 723.

PART 3 - EXECUTION

3.1 INSPECTION

A. Verify that existing conditions are ready to receive Work.

B. Verify that layout of hangers will not interfere with other Work.

C. Beginning of installation means acceptance of existing conditions.

3.2 INSTALLATION - GRID SYSTEM

A. Install system in accordance with ASTM C636 and ASTM E580 as supplemented in this Section and with notes on the Drawings entitled Metal Suspension Systems for Lay In Panel Ceilings.

B. Install after major above ceiling Work is complete. Coordinate the location of

hangers with other Work.

C. Hang system independent of columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members. Provide cross-struts at 4' centers for acoustic panels and at 2' centers for metal panels.

D. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest effected hangers and related carrying channels to span the extra distance.

E. Compression struts shall be installed at each main runner not exceeding 12' on center in both directions and not more than 8" from end of main runner. Insert main 3/4" tube over 1/2" tube with a minimum 6" lap. Secure crimped end of main 3/4" tube to structural framing with metal screws and 1/2" tube to main runner with metal screws. Secure tube sections together with 2 set screws. Install prefabricated compression post according to manufacturer's recommendations.

F. Locate grid system on room axis according to reflected ceiling plan. Trim edge panels precisely to fit using table saw. Reject cut pieces which are deformed or damaged during cutting.

G. Do not eccentrically load system, or produce rotation of runners.

H. Install edge molding at intersection of ceiling and vertical surfaces, using longest practical lengths. Miter corners. Provide edge moldings at junctions with other interruptions.

3.3 INSTALLATION - ACOUSTIC UNITS

A. Field reveal cut edge of perimeter tiles to match factory reveal edge. Paint cut surface if necessary to match surface of tile.

B. Fit acoustic units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Lay directional patterned units one way in room. Fit border neatly against abutting surfaces.

D. Install acoustic units level, in uniform plane, and free from twist, warp and dents.

3.4 TOLERANCES

A. Maintain tolerances in accordance with Section 01 45 00.

B. Variation from Flat and Level Surface: 1/8" in 10'.

C. Variation from Plumb of Grid Members Caused by Eccentric Loads: 2°

maximum.

END OF SECTION

SECTION 09 65 19.19
Vinyl Composition Tile

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Vinyl Composition Tile (VCT)

B. Static Dissipative Tile (SDT)

1.2 REFERENCES

A. ADAAG - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

B. CBC California Building Code and Amendments.

C. ASTM D2047 – Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine

D. ASTM E648 – Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

E. ASTM E662 – Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

F. ASTM E2179 – Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

G. ASTM F925- Standard Test Method for Resistance to Chemicals of Resilient Flooring.

H. ASTM F970 – Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading

I. ASTM F1514 – Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change

J. ASTM F1515 – Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change

K. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile

L. ASTM F1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

M. ASTM F2199 – Standard Test Method for Determining Dimensional Stability and Curling Properties of Resilient Flooring after Exposure to Heat

N. ANSI/TCNA A137.1 American National Standards Specification for Ceramic Tile

O. ANSI/ESD STM 7.1 :Floor Materials—Resistive Characterization of Materials

P. ANSI/ESD STM 97.1: Floor Materials and Footwear—Resistance in Combination with a Person

Q. ANSI/ESD STM 97.2: Floor Materials and Footwear Voltage Measurement in Combination with a Person

1.3 RELATED SECTIONS

A. Section 09 30 13 Ceramic Tile

1.4 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Submit Product Data for all materials specified.

C. Samples: Mount tile and apply grout on two 24" x 24" plywood panels, representative of pattern, color variations, and grout joint size variations.

D. Submit manufacturer's installation instructions, maintenance data, and recommended cleaning and stain removal methods and cleaning materials.

1.5 REGULATORY REQUIREMENTS

A. LVT flooring shall comply with the following fire performance characteristics as determined by testing products per ASTM test method indicated below:

1. Critical Radiant Flux: 0.45 watts per sq cm or more per ASTM E648.

2. Smoke Density: Less than 450 per ASTM E662.

B. Products supplied for tile installation shall comply with local regulations controlling use of volatile organic compounds (VOC).

C. Conform to CBC California Building Code with Amendments, and ADAAG for access for the handicapped.

1.6 QUALITY ASSURANCE

A. Conform to ANSI/TCNA A137.1 for Ceramic Tile.

B. Conform to ANSI/TCNA Standards and TCNA Handbook for tile installation.

1.7 QUALIFICATIONS

A. Manufacturer: Company specializing in the manufacture of products specified in this Section with minimum five years documented experience.

B. Installer: Company specializing in applying the Work of this Section with minimum five years documented experience.

1.8 ENVIRONMENTAL REQUIREMENTS

A. Concrete subfloor shall be allowed to cure for a minimum of 90 days to achieve acceptable dryness.

B. Store materials for three days prior to installation in area of installation to achieve temperature stability.

C. Maintain ambient temperature required by adhesive manufacturer three days prior to, during, and 24 hours after installation of materials.

D. Subfloor Moisture Conditions: Moisture emission rate of both new and existing floors of no more than 3 lbs./1000 sq. ft./24 hours when tested by ASTM F1869 with subfloor temperature not less than 65°F in the presence of the Inspector of Record.

E. Subfloor Alkalinity Conditions: A pH range of between 5 to 9 when subfloor is wetted with potable water and pHdrion paper is applied.

F. Existing floor slabs may have been installed without vapor retarders, or existing retarders may be damaged. Contractor will observe existing floors for signs of moisture-induced floor, surface failures, and mitigation of excessive moisture emission or alkalinity shall be the Contractor's responsibility and at the Contractor's cost, using methods specified herein.

1.9 EXTRA STOCK

A. Provide 100 square feet (or 10% of total installed, whichever is greater) of flooring and 100 lineal feet (or 10% of total installed, whichever is greater) of base of each material specified under provisions of Section 01 77 00.

B. Provide quantity equal to 2% of units installed of each shape and color.

PART 2 - PRODUCTS

2.1 MANUFACTURERS - TILE

A. Armstrong, www.armstrongflooring.com;

1. Or approved equal.

B. Substitutions: Under provisions of Section 01 62 00.

2.2 MATERIAL

A. Basis of Design:

1. Vinyl Composition Tile: Provide Standard Excelon® Imperial® Texture Tile; or equal

a. Description: Tile composed of polyvinyl chloride resin, plasticizers, fillers, stabilizers and pigments with colors and texture dispersed uniformly throughout its entire thickness.

b. Vinyl composition tile shall conform to the requirements of ASTM F 1066, "Standard Specification Vinyl Composition Floor Tile", Class 2, through-pattern

c. Size: 12 in. x 12 in. (305 mm x 305 mm)

d. Thickness: 1/8 in./0.125 in. (3.2 mm)

2. Static Dissipative Tile - Provide Excelon SDT™; or equal.

a. Description: Static dissipative vinyl tile composed of polyvinyl chloride resin, plasticizers, fillers, pigments, and antistatic additive with colors and texture dispersed uniformly throughout its thickness.

b. Tile shall meet size, thickness, indentation, impact, deflection, dimensional stability, resistance to chemicals, squareness, and resistance to heat requirements of ASTM F 1066 Standard Specification for Vinyl Composition Tile, Class 2, through pattern.

c. Size: 12 in. x 12 in.

d. Thickness: 1/8"/0.125 in. (3.2mm)

3. Color(s): To be selected by Architect from manufacturer's full range of colors.

2.3 ADHESIVE

A. Per manufacturer's recommendations for application.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive Work per manufacturer's recommendations.

B. Beginning of installation means installer accepts condition of existing surfaces.

3.2 PREPARATION

A. Protect surrounding Work from damage or disfiguration.

B. Vacuum clean existing surfaces and damp clean.

3.3 INSTALLATION

A. Lay tile to pattern indicated. If not indicated, request from Architect. Do not interrupt tile pattern around openings.

3.4 CLEANING

A. Clean Work under provisions of Section 01 77 00.

B. Clean tile surfaces.

END OF SECTION

SECTION 09 68 00
Carpeting

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Carpeting installed by glue-down method.

B. Accessories for carpet.

1.2 REFERENCES

A. ASTM C662 – Standard Specification for Impervious Graphite Pipe and Threading

B. ASTM D1335 – Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings.

C. ASTM E648 – Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

D. ASTM E662 – Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.

E. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

F. ASTM 1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

G. ASTM 2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ ProbesCFC - California Fire Code

H. CRI 104 - Carpet and Rug Institute Standard for Installation of Commercial Carpet

I. NFPA - National Fire Protection Association.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Product Data for specified products, describing physical characteristics, sizes, patterns, colors available, and method of installation.

C. Submit two Samples 12" x 12" in size, illustrating color and pattern for each carpet material specified.

1.4 OPERATION AND MAINTENANCE DATA

A. Submit maintenance data under provisions of Section 01 77 00.

B. Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning and shampooing.

1.5 QUALITY ASSURANCE

A. Perform Work in accordance with CRI 104.

B. Maintain one copy of document CRI 104 on site.

C. Manufacturer: Company specializing in carpet manufacturing with ten years minimum experience.

D. Carpet shall have an average tuft bind of 20 lbs. when tested in accordance with ASTM D1335.

E. Carpet shall bear CRI Indoor Air Quality Carpet Testing Program label.

1.6 REGULATORY REQUIREMENTS

A. Conform to CFC Section 804 Interior Wall and Ceiling Trim and Interior Floor Finish in New and Existing Buildings. CFC Section 3203 Commodity Classification and Table 3203.8.

B. Floor covering shall have a NFPA Class I rating with a minimum radiant flux of 0.45 watt per square centimeter when tested in accordance with ASTM E648.

C. Floor covering shall have a smoke developed rating of less than 450 when tested in accordance with ASTM C662.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver, store, and protect products under provisions of Section 01 87 00.

1.8 PROJECT/SITE CONDITIONS

A. Comply with requirements of CRI 104.

B. Concrete subfloor to be allowed to cure for a minimum of 90 days to achieve acceptable dryness.

C. Store materials for three days prior to installation in area of installation to achieve temperature stability.

D. Maintain minimum 70°F and maximum 95°F ambient temperature with relative

humidity between 10% to 65% three days prior to, during, and after installation of materials.

E. Subfloor Moisture Conditions: Moisture emission rate equal to or less than 3 lbs./1000 square feet/24 hours when tested by calcium chloride moisture test in compliance with CRI 104, Section 6.2.1, with subfloor temperature not less than 65°F.

F. Subfloor Alkalinity Conditions: A pH range of between 5 to 9 when subfloor is wetted with potable water and test paper is applied.

1.9 WARRANTY

A. Provide under provisions of Section 01 70 00.

B. Performance Warranty: Manufacturer's lifetime warranty covering delamination of secondary backing, edge ravel and tuft bind of carpet under both wet and dry conditions.

C. Wear Warranty: Manufacturer's lifetime warranty that carpet will lose no more than 10% by weight of face yarn.

1.10 EXTRA MATERIALS

A. Provide 60 square feet of carpeting of each color specified, under provisions of Section 01 70 00.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Mohawk Commercial Carpet, Style: Urban Field II, www.mohawkflooring.com

B. Substitutions: Under provisions of Section 01 62 00.

2.2 MATERIALS

A. Tufted carpet conforming to published specification characteristics of named manufacturer.

B. Fiber type shall be: Nylon

C. Carpet shall contain a minimum of 85% post-consumer recycled content.

D. Carpet shall be green label certified.

2.3 ACCESSORIES

A. Sub-Floor Filler: White premix latex; type recommended by carpet manufacturer.

B. Primers and Adhesives: Waterproof, of types recommended by carpet manufacturer.

C. Edge Strips: Vinyl type, color as selected by Architect.

D. Concrete Testing Equipment: American Moisture Test, Inc. (866) 670-9700

1. ASTM F1869 Water vapor emission.

2. ASTM F710 Digital alkalinity-pH testing.

3. ASTM F2170 In-concrete relative humidity.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine subfloors and conditions for compliance with requirements for moisture content, alkalinity range and other conditions affecting performance of carpet.

B. Verify that subfloor surfaces are smooth and flat and are ready to receive Work.

C. Perform concrete moisture testing at a rate of three tests for areas up to 1,000 square feet and one test for each 1,000 square feet thereafter in accordance with the following test methods:

1. ASTM F1869 water vapor emission: shall not exceed 3.0 lbs.

2. ASTM F2170 in-concrete relative humidity: shall not exceed 75%.

3. ASTM F710 digital alkalinity-pH testing: shall not exceed 9.0pH.

D. Where slab fails to meet the requirements of the paragraph above, vapor retarder as specified in Section 07 26 13.

E. Beginning of installation means acceptance of subfloor and site conditions.

3.2 PREPARATION

A. Remove subfloor coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone.

B. Remove subfloor ridges and bumps. Fill low spots, cracks, joints, holes, and other defects with sub-floor filler.

C. Apply, trowel, and float filler to leave smooth, flat, hard surface.

D. Prohibit traffic until filler is cured.

E. Apply subfloor primer compatible with adhesive where recommended by carpet manufacturer.

F. Vacuum floor surface.

3.3 INSTALLATION

A. Apply carpet and adhesive in accordance with manufacturer's instructions and CRI 104, Section 8.

B. Verify carpet match before cutting to ensure minimal variation between dye lots.

C. Double cut carpet, to allow intended seam and pattern match. Make cuts straight, true, and unfrayed.

D. Locate seams in area of least traffic.

E. At doorways, center seams under door in closed position.

F. Fit seams straight, not crowded or peaked, free of gaps.

G. Lay carpet on floors with run of pile in same direction as anticipated traffic.

H. Do not change run of pile in any room where carpet is continuous through a wall opening into another room.

I. Locate change of color or pattern between rooms under door centerline.

J. Extend carpet into toe spaces, door reveals, open-bottomed obstructions, alcoves and similar openings.

K. Cut and fit carpet around interruptions.

L. Fit carpet tight to intersection with vertical surfaces without gaps.

3.4 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Vacuum carpet surfaces.

C. Remove yarns that protrude from carpet surfaces.

3.5 PROTECTION

A. Comply with requirements of CRI 104, Section 15.

B. Prohibit traffic from carpet areas for 24 hours after installation.

END OF SECTION

SECTION 10 14 00
Signage

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Door and wall signage.

B. Cast letters and numbers.

C. Traffic Signs.

1.2 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Shop Drawings: Submit dimensioned elevations of each sign configuration.

1. Show sign sections indicating materials, thicknesses and attachment methods.

2. Show anchors and reinforcement.

3. Provide complete signage schedule indicating all signs and locations, key to room numbers and elevations. Provide space for Architect to indicate sign type and location.

C. Product Data:

1. Manufacturer's current published specifications.

2. Manufacturer's installation instructions.

D. Samples:

1. Provide two Samples of each sign type required in the profiles and sizes indicated on the Drawings. Signs approved with correct color and type may be used in the final installation at the request of the Contractor.

2. Provide Samples of all proposed fasteners and accessories.

3. Three copies of manufacturer's color chart indicating all available standard colors for selection by the Architect.

E. Closeout: Manufacturer's warranty.

1.3 PROJECT CONDITIONS

A. Environmental Requirements: Install signs only when interior air and substrates have reached equilibrium moisture and temperature approximating that of normal occupied conditions.

B. Do not install adhesive tape mounted signs when ambient temperature is below 7°F. Maintain this temperature during and after installation of signs. Unless otherwise noted by manufacture recommendations.

1.4 REGULATORY REQUIREMENTS

A. Conform to California Building Code – Chapter 11B and American Disability Act (ADA) for accessibility requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver signs safely packed to prevent damage during shipment and prior to installation.

B. Keep signs in protective wrapping until ready for installation.

C. Handle carefully to prevent damage. Replace damaged parts at no cost to the Owner.

D. Comply with the additional requirements specified in Division 01.

1.6 SCHEDULING

A. Do not install signs until walls and/or doors have received final finish.

1.7 WARRANTY

A. Procedures: In accordance with Division 01.

B. Furnish manufacturer's written warranty agreeing to replace signs which fade or discolor under normal environmental exposure.

C. Warranty Period: 5 years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS AND PRODUCTS

A. Subject to compliance with requirements specified herein. See Kaiser specification standards for further information and guidelines.

B. Substitutions: Under provisions of Section 01 62 00.

2.2 DOOR AND WALL SIGNAGE

A. Cast Acrylic Sheet:

1. Digital Information Display,

2. ASI Signage, asisignage.com

3. Modulux, www.modulex.com

B. Mohawk Sign Systems Inc., or approved equal.

1. Monolithic tactile plaque sign with fully integrated graphics composed of high-impact polyester acrylate resins, pressure molded into a single polymerized component, using manufacturer's co-molding process.

   a. Depth: 0.25" thickness.

   b. Panel Appearance: Specify from manufacturer's standard, high contrast semi-matte color chart.

   c. Surface Texture: Matte non-glare.

   d. Letter Styles and Sizes and Layout Position: Specify from manufacturer's standard letter styles and color chart.

   e. Text Schedule: Verify correct capitalization.

   f. Sign Size: As indicated on the Drawings.

   g. Sign Shape: As indicated on the Drawings. Square or rectangular shapes shall have radiused corners.

   h. Installation: Provide countersunk mounting holes for mechanical fasteners.

   i. Sign Copy: Shall be integrally molded with sign body per manufacturer's standard bonding process.

   j. Application: Rated for exterior and interior applications.

   k. Background Appearance: Solid color from manufacturer's standard color charts.

   l. Braille: Integral domed-shaped California Grade 2 Braille dots, each distinct and separate.

2. Flame Resistance: Application of a lighted match shall not produce melting, flashing, flaring or distortion. Signs shall not ignite at a temperature less than 800°F.

3. Vandal resistant surface which can be cleaned using industrial cleansers,

including acetone.

C. Fasteners: All screws, bolts and fasteners to be tamper resistant stainless steel. All fasteners to be to be provided with solid anchorage to studs, blocking or concrete; do not use toggle bolts.

D. Colors: High contrast semi-matte integral colors for graphics. All integral resins are U.V stabilized resins utilizing automotive grade pigments.

E. Location of signs as shown on Drawings.

2.3 FABRICATION

A. General Requirements:

1. Shop-fabricate signs to requirements indicated for materials, thicknesses, designs, shapes, sizes and details of construction.

2. Sign panel surfaces shall be smooth, even and fabricated to remain flat under installed conditions. Ease all edges and corners of signs.

3. Provide lettering and graphics precisely formed, uniformly opaque to comply with relevant regulations and requirements indicated for size, style, spacing, content, position and colors.

B. Tactile Graphics and Text:

1. Conform to C.B.C. Title 24, Chapter 11, Section 11B-Division 7. 11B-703.2.5, Table 11B-703.3.1, 11B-703.3.2.

2. California Grade 2 Braille must accompany raised text characters. Provide tactile copy and Grade 2 Braille raised 1/32" minimum from plaque using manufacturer's co-molding process:

a. Letters and numbers shall be raised 1/32" (0.794 mm) and shall be sans-serif uppercase characters accompanied by California Grade 2 Braille symbols.

b. Braille Symbols: Rounded or domed California Braille dots, each distinct and separate. Dots shall be 1/10" (2.54 mm) on centers in each cell with 2/10" (5.08 mm) space between cells. Dots shall be raised a minimum of 1/32" (0.794 mm) from a plaque surface.

c. Proportions: Characters shall be selected from fonts where the width of the uppercase letter "O" is 60% minimum and 110% maximum of the height of the uppercase letter "I".

d. Character Height: Characters and numbers on signs shall be 5/8" minimum and 2" maximum high and as shown on the Drawings.

e. Contrast of Characters and Symbols: Characters and symbols shall be light characters with dark background with a contrast of 70% minimum.

3. Raised Characters and Pictorial Symbol Signs:

a. Letter Type: Letters and numbers on signs shall be raised 1/32" (0.794 mm) minimum and shall be sans-serif uppercase characters accompanied by California Grade 2 Braille.

b. The stroke thickness of the uppercase letter "I" shall be 15% maximum of the height of the character. Reference to CBC 11B Division 7, 11B-703.2.6.

c. Symbol Size: Raised characters or symbols shall be a minimum of 5/8" (15.9 mm) and as shown on the Drawings.

d. Pictorial Symbol Signs (Pictograms): Pictorial symbol signs (pictograms) shall be accompanied by the equivalent verbal description placed directly below the pictogram as shown on the Drawings.

e. Contrast between letters and/or characters and background color must be 70% minimum.

C. Silkscreening: All silkscreened graphics shall be produced with ABS paint compatible with the substrate, using mesh of 390 or finer to produce clean, sharp edges. All media are to be opaque, with full even coverage, and free from dust bubbles, blemishes and other foreign matter. Characters and symbols shall contrast 70% minimum with their background. Characters shall be light colors with dark background.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that substrate surfaces to receive units are true and plumb. Correct inadequate surfaces before installation of signs.

B. Verify that moisture and temperature levels of substrate and environment have been stabilized and are acceptable prior to proceeding with the Work.

C. Take field measurements prior to shop fabrication where necessary in order to ensure proper fitting of Work.

D. Do not begin Work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install units in locations and at mounting heights indicated on Drawings.

1. Keep perimeter lines straight, plumb, and level.

2. Install within 1/4" tolerance vertically and horizontally of intended location and in accordance with manufacturer's recommendations.

3. Install product at heights to conform to current CBC and ADA Accessibility Guidelines .

B. Installation on Walls: Attach securely through finish wall to rigid backing.

C. Installation Method: Install with vandal - resistant fasteners.

3.3 CLEANING, PROTECTION AND REPAIR

A. Repair scratches and other damage which might have occurred during installation. Replace components where repairs were made but are still visible to the unaided eye from a distance of 5'.

B. Clean installed products in accordance with manufacturer's instructions prior to District's acceptance.

END OF SECTION

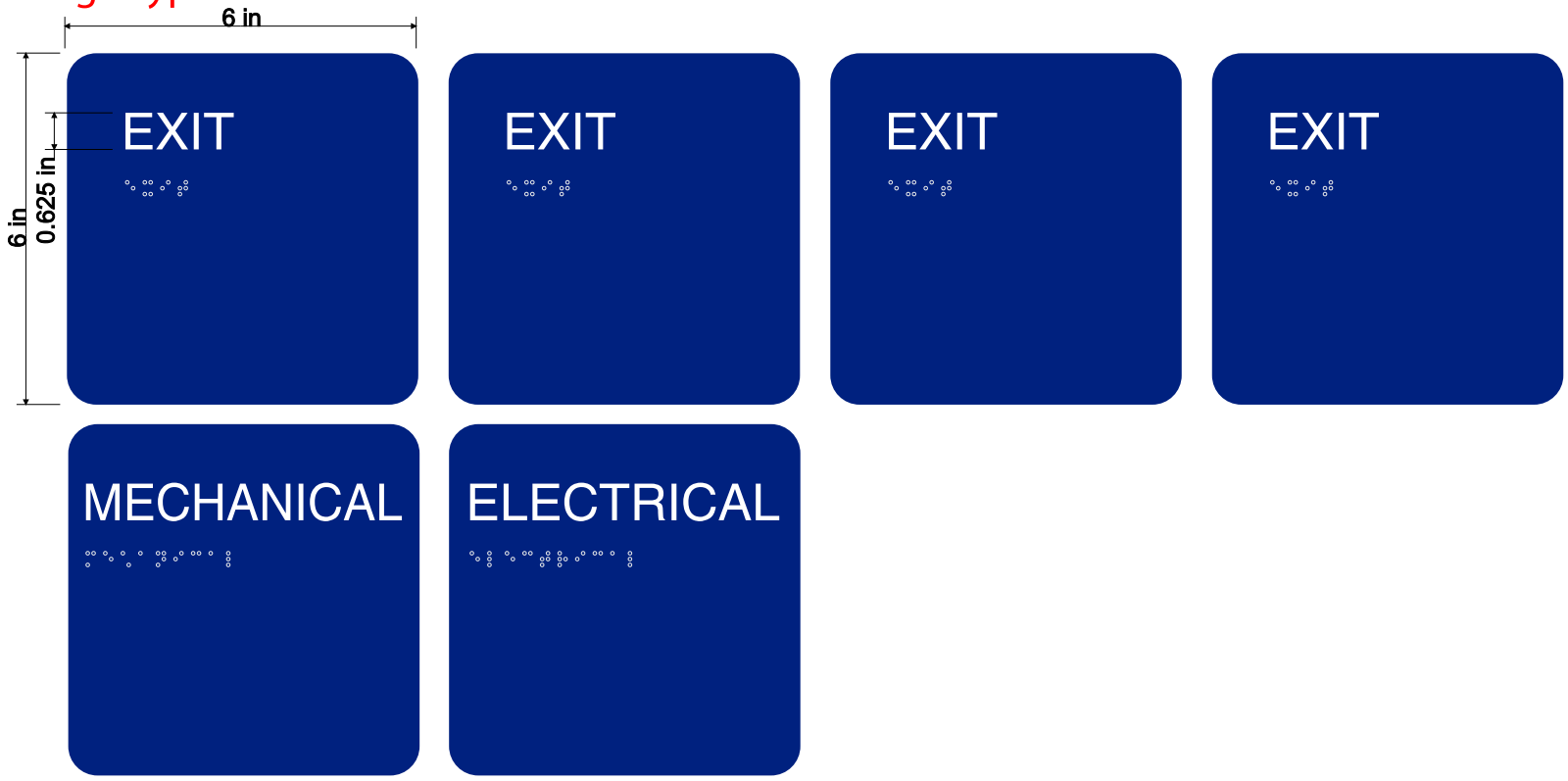
PROOF

Please read this proof carefully. This is the actual artwork for your sign. **Once proof is approved, you are financially responsible for any misspelling or incorrect layout.** Note: colors in proof may not reflect colors of final product.

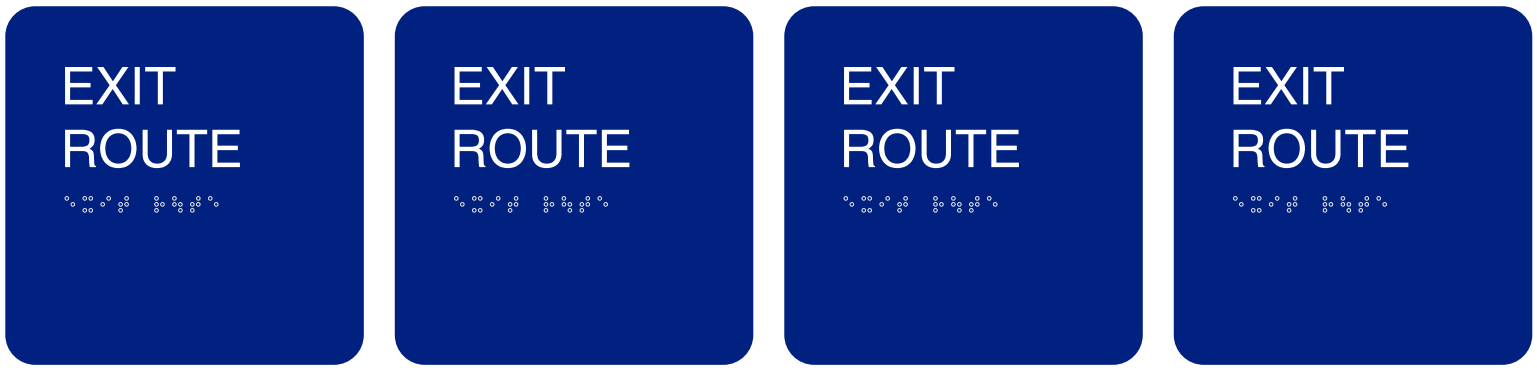
PRODUCTION:

1/8" matte clear P95 acrylic painted 2nd surface PMS 662 C with 1/32" Duet white appliqué and clear braille. 1/2" radius corners.
Qty. 1 each.

Sign Type S3



Sign Type S2



ADDITIONAL NOTES:
Font: Helvetica Medium
VHB double sided tape provided for installation.

PROOF

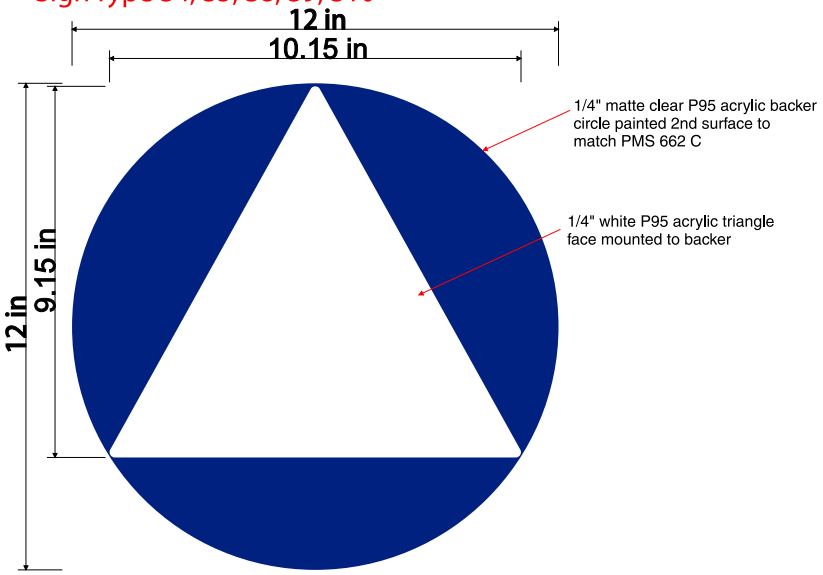
PROOF

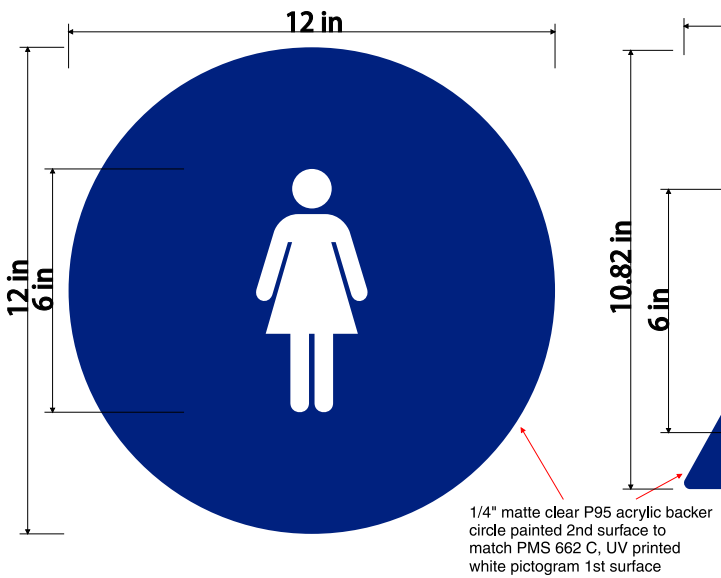
Please read this proof carefully. This is the actual artwork for your sign. **Once proof is approved, you are financially responsible for any misspelling or incorrect layout.** Note: colors in proof may not reflect colors of final product.

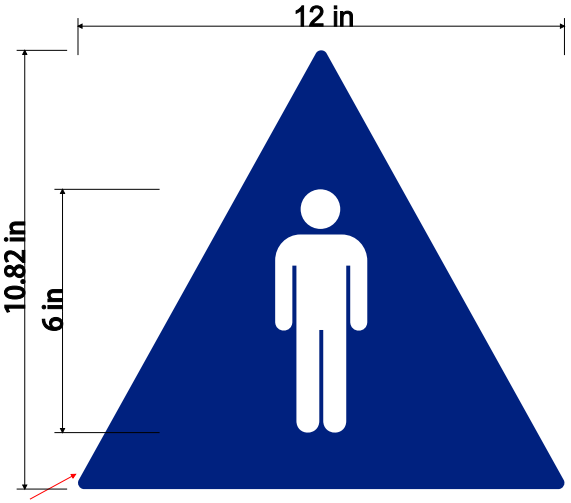
PRODUCTION:

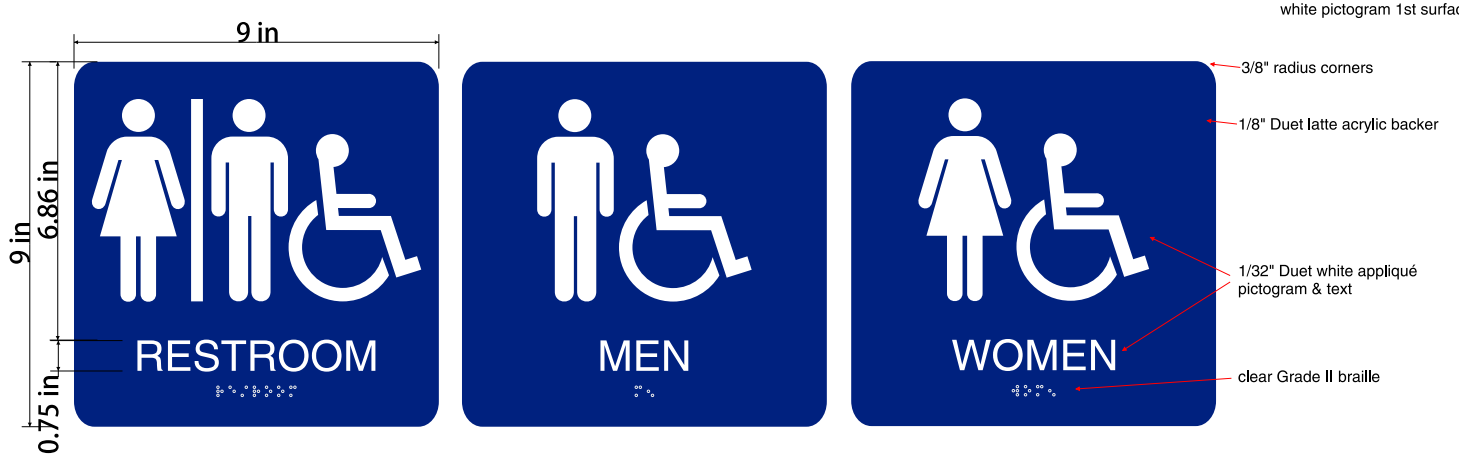
See below for sign specifications.
Qty. 1 each.

RESTROOMS
Sign Type S4, S5, S8, S9, S10









ADDITIONAL NOTES:
Font: Helvetica Medium
VHB double sided tape provided for installation.

PROOF

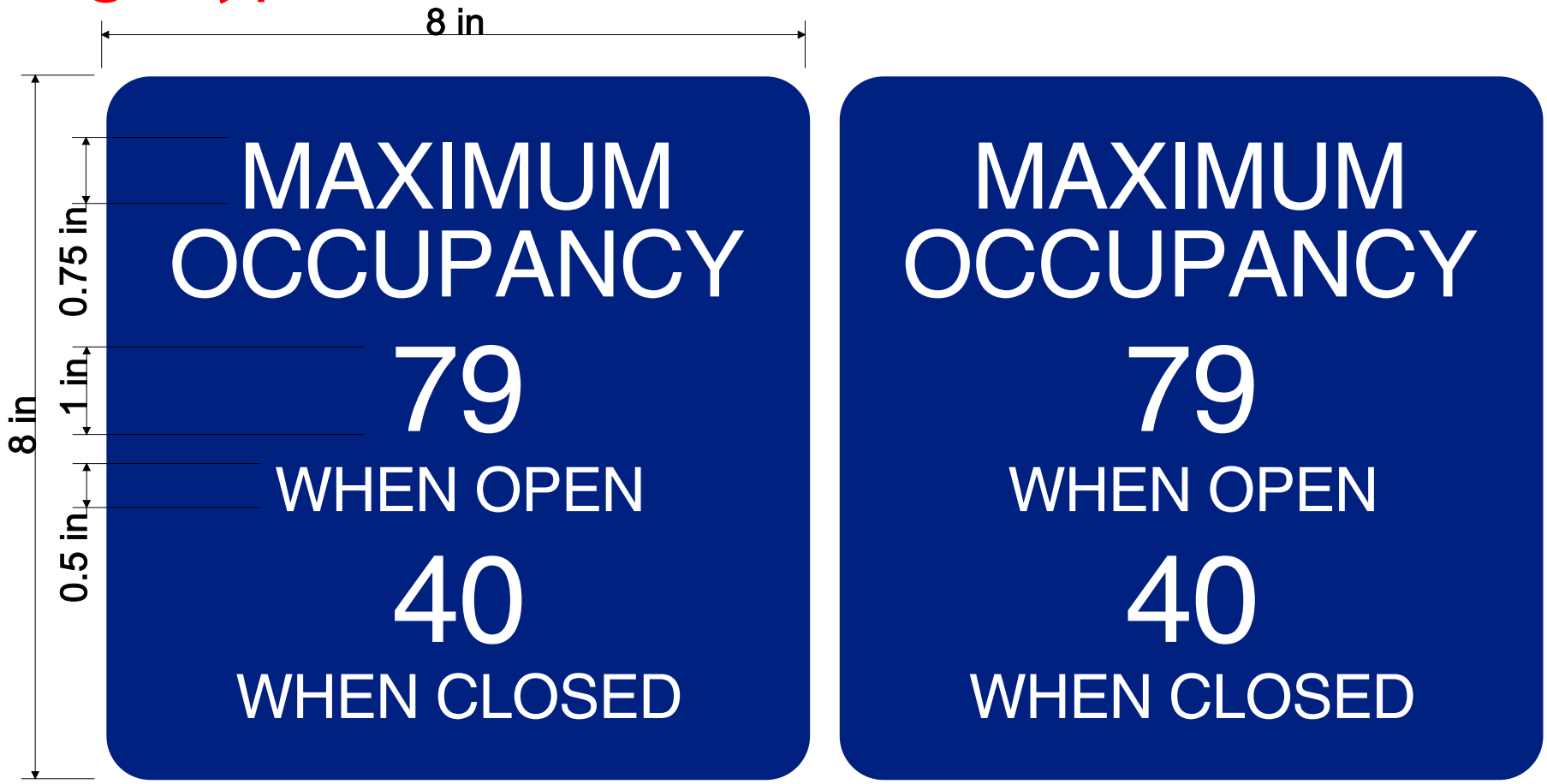
PROOF

Please read this proof carefully. This is the actual artwork for your sign. **Once proof is approved, you are financially responsible for any misspelling or incorrect layout.** Note: colors in proof may not reflect colors of final product.

PRODUCTION:

1/8" matte clear P95 acrylic painted 2nd surface PMS 662 C with UV printed white text 1st surface, 1/2" radius corners.
Qty. 1 each.

Sign Type S6



ADDITIONAL NOTES:
Font: Helvetica Medium
VHB double sided tape provided for installation.

PROOF

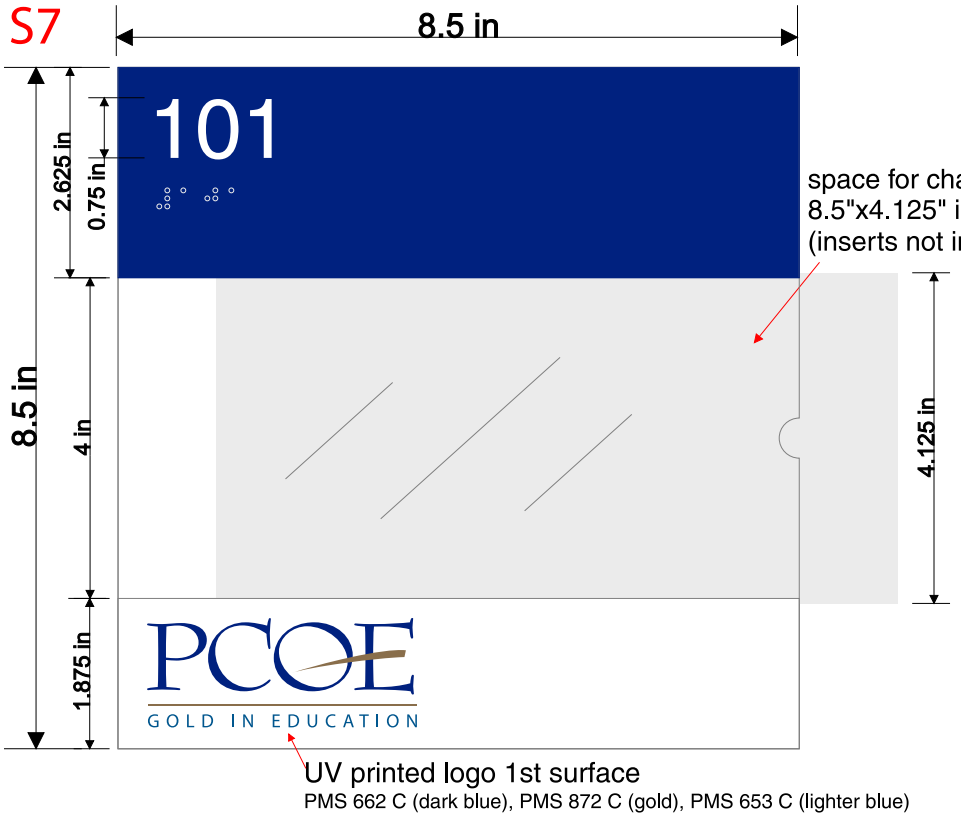
PROOF

Please read this proof carefully. This is the actual artwork for your sign. **Once proof is approved, you are financially responsible for any misspelling or incorrect layout.** Note: colors in proof may not reflect colors of final product.

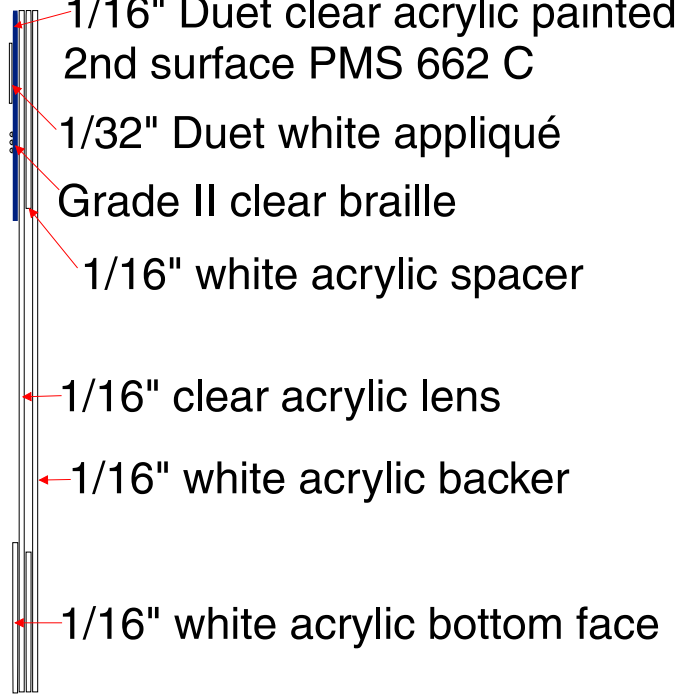
PRODUCTION: Window sign with space for changeable insert. Insert size: 8.5"x4.125", inserts not included. See below for sign specifications.

Sign Type S7

Figure 1.1

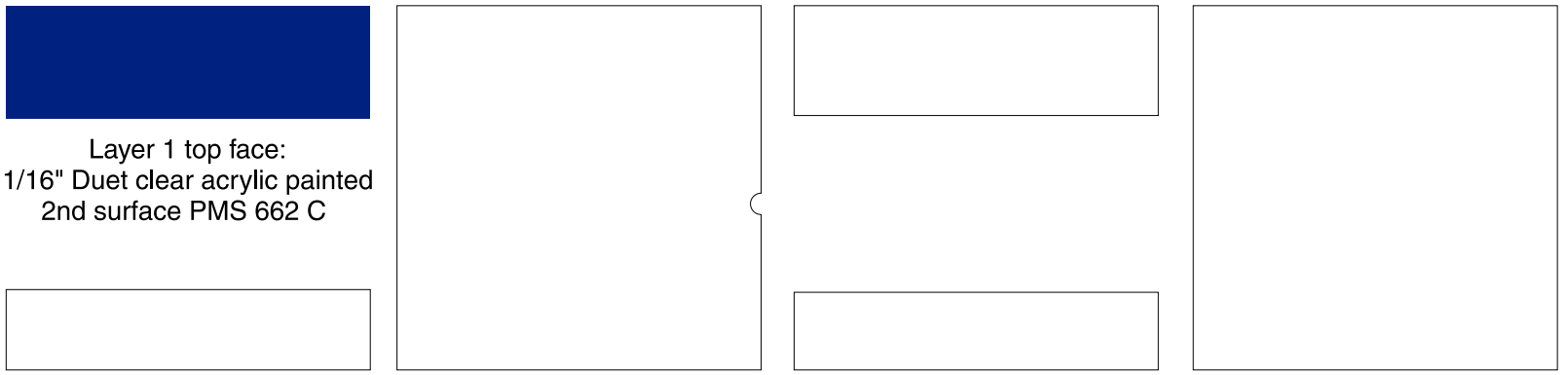


Side View



(This sign for production reference only, not part of order)

Production Pieces:



Layer 1 top face:
1/16" Duet clear acrylic painted
2nd surface PMS 662 C

Layer 1 bottom face:
1/16" white acrylic

Layer 2 lens:
1/16" clear acrylic
with thumb notch

Layer 3 spacers:
1/16" white acrylic
to allow for an 8.5"x4.125" insert

Layer 4 backer:
1/16" white acrylic

ADDITIONAL NOTES:

Font: Helvetica Medium

VHB double sided tape provided for installation.

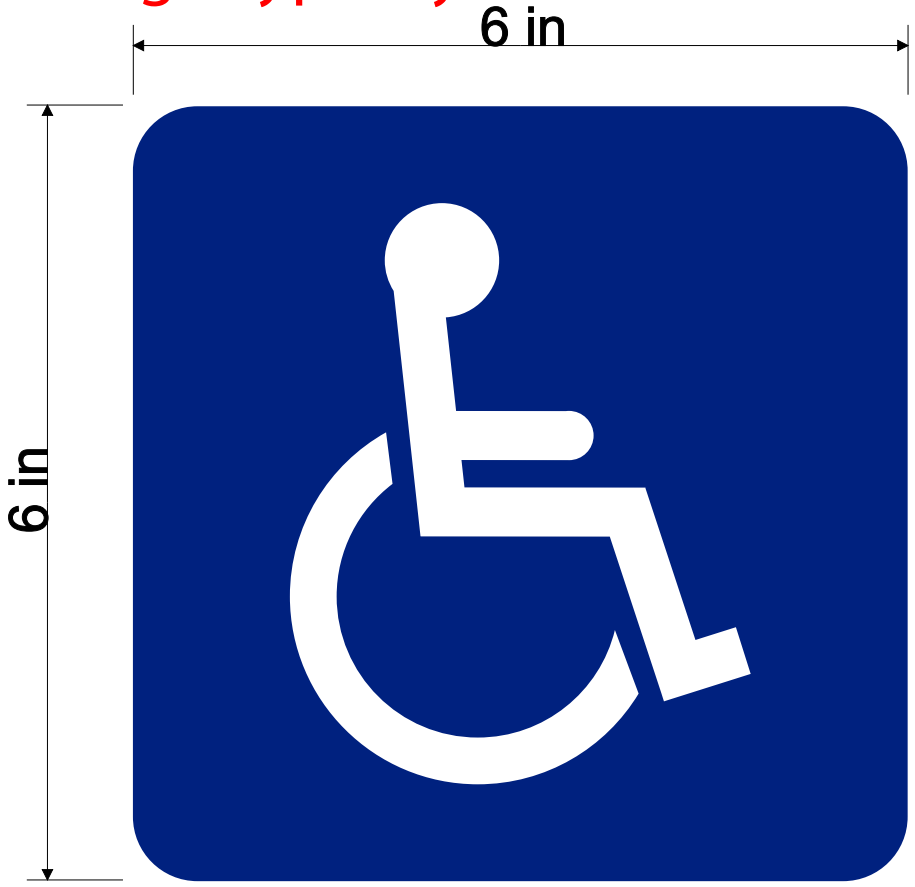
PROOF

Please read this proof carefully. This is the actual artwork for your sign.
Once proof is approved, you are financially responsible for any misspelling or incorrect layout. Note: colors in proof may not reflect colors of final product.

PRODUCTION:

1/8" matte clear P95 acrylic painted 2nd surface PMS 662 C with 1/32" Duet white appliqué.
1/2" radius corners.
Qty. 1.

Sign Type: Symbol of Accessibility



ADDITIONAL NOTES:
VHB double sided tape provided for installation.

PROOF

SECTION 10 14 19
Dimensional Letter Signage

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Cut Aluminum Letters

1.2 SCOPE

A. Furnish letters and hardware necessary to install cut metal letters shown on drawings and herein specified.

1.3 SUBMITTALS

A. Manufacturer's descriptive literature and specifications.

B. Shop Drawings

C. Installation instructions

1.4 QUALITY ASSURANCE

A. Manufacturer to have a minimum of 20 years experience in manufacturing letters.

B. All letters to be manufactured by one manufacturer.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER

A. Basis of Design:

1. Impact Architectural Signs; http://www.impactsigns.com/metal-letters/

B. Substitutes: Under provisions of Division 01.

2.2 MATERIALS (METAL ALLOYS)

A. Aluminum - 5052 Alloy

2.3 FINISHES

A. Aluminum

1. Clear Anodized, sanded return.

2.4 THICKNESS

A. Aluminum - ¾"

2.5 FONT STYLES

A. Provide a vector art file for custom logo shapes: To be provided by Owner.

2.6 MOUNTING HARDWARE

A. Cut metal letters are tapped for threaded stud insertion.

B. All aluminum letters under 18" use aluminum studs

C. All other letters use stainless steel studs.

D. Spacers can be used to "float" letters from wall. From .25"

E. Paper Installation template with marked stud locations should be provided.

F. Double Rail Mounting, Bottom Rail Mounting may be used where individual letter installation is not possible.

PART 3 - EXECUTION

3.1 INSTALLATION

A. A qualified installer shall install cut metal letters.

B. Install signs level, plumb, and at the height indicated with sign surfaces free from distortion or other defects in appearance.

END OF SECTION

SECTION 10 21 13
Phenolic Toilet Compartments

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Solid phenolic toilet partitions and sight screens, floor mounted, headrail braced.

B. Additional cross-bracing as required.

C. Hardware: Coordinate with items installed under Section 10 28 00 - Toilet and Bath Accessories.

D. Attachments, screws and bolts.

1.2 REFERENCES

A. ADAAG - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

B. CBC - California Building Code

C. ASTM E84 – Standard Test Method of Surface Burning Characteristics of Building Materials.

D. ANSI/NEMA LD-3 – High-Pressure Decorative Laminates.

E. NFPA 286 - Standard Methods for Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Submit Product Data for components, hardware, and accessories.

C. Submit three Samples 4" x 4" in size, cut from actual panel construction, illustrating panel pattern.

D. Provide a Sample of each type of hardware.

E. Submit manufacturer's installation instructions.

1.4 REGULATORY REQUIREMENTS

A. Conform to CBC, and ADAAG for accessibility requirements.

B. Class B rating to conform to flame spread and smoke developed ratings of 20/95 for panel materials when tested in accordance with ASTM E84.

1.5 COORDINATION

A. Coordinate Work under provisions of Section 01 31 19.

B. Coordinate Work with support framing and anchors.

C. Coordinate Work with placement of plumbing fixtures and floor drains.

D. Coordinate Work with placement of electrical fixtures and equipment.

E. Coordinate Work with toilet accessories.

1.6 WARRANTY

A. Provide 10 year limited warranty under provisions of Section 01 77 00.

B. Warranty shall provide for coverage of solid phenolic panels, doors and stiles against breakage, corrosion and delamination.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Bobrick Inc., www.bobrick.com

B. Young Industries, www.younginds.com

C. Columbia Industries, www.columbiacorp.com

D. Substitutions: Under provisions of Section 01 62 00.

2.2 MATERIALS

A. Solid Phenolic Panel: ANSI/NEMA LD-3 solid phenolic core with melamine laminate veneer material.

B. Stainless Steel:, Type 304.

2.3 ACCESSORIES

A. Pilaster Shoe:, Type 304 stainless steel, with adjustable screw jack.

B. Headrail: 1" x 1-5/8" anodized extruded aluminum; with anti-grip configuration; and stainless steel wall brackets.

C. Attachments, Screws, and Bolts: Stainless steel with Torx pin head.

D. Through-Bolts and Nuts: Stainless steel with Torx pin head.

2.4 HARDWARE

A. Hinges: Full-height continuous hinges of 16 gauge stainless steel. Spring-loaded and self-closing.

B. Latch and Keeper, Standard Doors: 16 gauge stainless steel combination slide latch and bumper.

C. Latch and Keeper, Accessible Stall Doors: U-shaped handle with concealed latch.

D. Door Stop: Vinyl coated 11 gauge steel door stop.

E. Coat Hook: 12 gauge stainless steel clothes hook. See Section 10 28 00 - Toilet and Bath Accessories.

F. Door Pull: Stainless steel door pull both sides at accessible stall.

G. All hardware shall be concealed inside compartments with the exception of out-swing doors.

H. Panel Brackets: Full length continuous "U" channel brackets of 16 gauge stainless steel.

2.5 FABRICATION

A. Doors and Panels:

1. Door Thickness: 3/4".

2. Panel Thickness: 1/2".

3. Door Width: 24".

4. Door Width for Accessible Use: 32" front entry, 34" side entry.

5. Height: 58".

B. Pilasters: 3/4" thick, constructed same as doors, of sizes required to suit cubicle width and spacing.

C. Furnish units with cutouts and drilled holes to receive partition mounted hardware, accessories, and grab bars as indicated.

D. Concealed hardware fasteners shall have a metal-to-metal connection that shall

withstand a direct pull of 1,500 lbs. per screw.

2.6 FINISHES

A. Phenolic Panels: Color from manufacturer's standard color selections.

B. Stainless Steel Surfaces: No. 4 finish.

C. Aluminum: Clear anodized.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that openings are ready to receive Work.

B. Verify field measurements are as shown on Shop Drawings.

C. Verify correct location of built-in framing, anchorage, bracing, electrical and plumbing fixtures.

D. Beginning of installation means installer accepts existing conditions.

3.2 ERECTION

A. Erect in accordance with manufacturer's instructions.

B. Install partition components secure, plumb and level.

C. Attach panel brackets securely to walls and floors using appropriate anchor devices.

D. Set all floor anchors and pilaster shoes firmly in mastic.

E. Attach panels and pilasters to brackets with through bolts and nuts. Locate headrail joints at pilaster center line.

F. Provide 1/2" space between wall surface and panels or pilasters.

G. Provide for adjustment of floor variations with screw jack through steel saddles integral with pilaster. Conceal floor fastenings with pilaster shoes.

H. Equip each toilet stall door with hinge, door latch, pull, and clothes hook.

I. Equip each accessible toilet stall door with two pulls, one each side of door, and clothes hook. Mount coat hook at 48" maximum height or as required by ADA for accessible stalls.

J. Install door strike keeper on each pilaster in alignment with door latch.

K. Equip each toilet stall door with coat hook and bumper.

3.3 ERECTION TOLERANCES

A. Maximum Variation From Plumb or Level: 1/8".

B. Maximum Misplacement From Intended Position: 1/8".

3.4 ADJUSTING

A. Adjust Work under provisions of Section 01 77 00.

B. Adjust and align door hardware to uniform clearance at vertical edges of doors. Clearance space not to exceed 3/16".

C. Adjust door hinges so that free movement is attained and will locate in-swinging doors in partial open position when unlatched. Return out-swinging doors to closed position.

3.5 CLEANING

A. Clean Work under provisions of Section 01 77 00.

B. Remove protective coverings.

C. Clean surfaces and hardware.

3.6 PROTECTION OF FINISHED WORK

A. Protect finished installation under provisions of Section 01 87 00.

B. Field touch-up of finished surfaces will not be permitted.

C. Replace damaged or scratched materials with new materials.

END OF SECTION

SECTION 27 10 00

Structured Cabling for Voice and Data – Inside Plant

PART 1 - General

1.1 SECTION INCLUDES

A. Communications system design requirements.

B. Communications pathways.

C. Copper cable and terminations.

D. Fiber optic cable and interconnecting devices.

E. Communications identification.

F. Cabling and pathways inside building(s).

G. Distribution frames, cross-connection equipment, enclosures, and outlets.

H. Grounding and bonding the telecommunications distribution system.

1.2 RELATED REQUIREMENTS

A. Section 07 84 00 - Firestopping.

B. Section 26 00 00 – Electrical

1.3 REFERENCE STANDARDS

A. Comply with the current applicable standards of the listed agencies for the telecommunication cabling system installation.

B. Panduit product specifications.

C. EIA/TIA Standards

D. BICSI Standards

E. California Electrical Code

F. NECA/BICSI 568 - Standard for Installing Building Telecommunications Cabling; National Electrical Contractors Association.

G. Title 24 (California Code of Regulation)

H. All Local Codes

I. NFPA Standards

J. ADA Requirements

K. Safety, Health and Environmental Standards

L. ANSI/J-STD-607 - Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications; Current Edition.

M. UL 444 - Communications Cables; Current Edition, Including All Revisions.

N. UL 497 - Standard for Protectors for Paired-Conductor Communications Circuits; Current Edition, Including All Revisions.

O. UL 514C - Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers; Current Edition, Including All Revisions.

P. UL 1581 - Reference Standard for Electrical Wires, Cables, and Flexible Cords; Current Edition, Including All Revisions.

Q. UL 1863 - Communications-Circuit Accessories; Current Edition, Including All Revisions.

1.4 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product.

1. Storage and handling requirements and recommendations.

2. Installation methods.

C. Shop Drawings: Show compliance with requirements on isometric schematic diagram of network layout, showing cable routings, telecommunication closets, rack and enclosure layouts and locations, service entrance, and grounding, prepared and approved by BICSI Registered Communications Distribution Designer (RCDD).

D. Manufacturer Qualifications.

E. Evidence of qualifications for installer.

F. Test Plan: Complete and detailed plan, with list of test equipment, procedures for inspection and testing, and intended test date; submit at least 60 days prior to intended test date.

G. Field Test Reports.

H. Project Record Documents: Prepared and approved by BICSI Registered Communications Distribution Designer (RCDD).

1. Record actual locations of outlet boxes and distribution frames.
2. Show as-installed color coding, pair assignment, polarization, and cross-connect layout.
3. Identify distribution frames and equipment rooms by room number on contract drawings.

I. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of project record documents.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: At least 3 years experience manufacturing products of the type specified.

B. Installer Qualifications: A company having at least 3 years experience in the installation and testing of the type of system specified, and:

1. Employing a BICSI Registered Communications Distribution Designer (RCDD).
2. Supervisors and installers factory certified by manufacturers of products to be installed.
3. Employing BICSI Registered Cabling Installation Technicians (RCIT) for supervision of all work.
4. Employing experienced technicians for all work; show at least 3 years experience in the installation of the type of system specified, with evidence from at least 2 projects that have been in use for at least 18 months; submit project name, address, and written certification by user.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Keep stored products clean and dry.

1.7 WARRANTY

A. See Section 01 78 36 - Warranty Requirements.

B. Correct defective Work within a 2-year period after Date of Substantial Completion.

1.8 REQUIREMENTS INCLUDED

A. This section describes requirements for the installation of the communication cabling system and telecommunication outlets.

1.9 SCOPE OF WORK

A. Furnish, install, test and document all the necessary elements for the extension of a voice/data communications cabling distribution system.

B. Furnish and install only new equipment and material, produced by manufacturers that are recognized nationally by the telecommunications industry and listed by UL.

C. Work included:

1. Voice/Data Communications backbone and horizontal distribution systems.
2. Voice/Data Communications terminations at workstations and offices.
3. All mounting hardware.
4. All station cabling, jacks, patch cords and connecting cables.
5. All fire-stop materials.
6. All cross connect jumper wires.
7. All cable mounting materials.
8. All tie wraps, bushings, and miscellaneous parts and materials.
9. All grounding materials (except ground connection points) including grounding wires and connectors for distributing ground to all mounting racks, data cabinets, ladder racks, protector modules, cable sheaths.
10. All earthquake bracing materials, brackets and mounting hardware.
11. Performance testing of all cable drops.

D. Work not included:

1. The provision of Server Rack. Rack will be Owner Furnish Contractor Installed.
2. All Local Area Network (LAN) hub equipment, including its testing and turn up.

E. Contractor shall be held to have visited the site and been satisfied with the conditions under which the work is to be performed. Contractor shall check existing conditions that may affect the work. No allowance shall subsequently be

made on the contractor's behalf, for any extra expense resulting from a failure or neglect to discover conditions affecting the work.

1.10 SYSTEM DESCRIPTION

A. Data and voice service will be provided from the Electrical or Server Room. Cross connections to the existing telephone equipment located in the existing telecommunications room Main Telephone Backboard is the responsibility of the Cabling Contractor.

B. Horizontal cabling will be distributed in the ceiling space using open J-hooks and fire penetration sleeves to telephone and data device outlets as shown on the Drawings. Horizontal cabling will use plenum-rated unshielded twisted pair (UTP) cable with:

1. 4-pair EIA/TIA 568-A Category 6 unshielded cable for data outlets.
2. 4-pair EIA/TIA 568-A Category 6 unshielded cable for voice and wall outlets.

C. At the workstation, the cables will terminate on one modular jack for voice, and one modular jack for data. In the telecommunications closets, the cables will terminate on rack-mounted Category 6, RJ-45 patch panels. The Cat 6 patch panels must conform to EIA/TIA TSB Category 6 specifications. The horizontal cables and terminating hardware will be installed as part of the work included in this section.

D. Backbone cables from MPOE to Server Room shall consist of four (4) 8-strand multi-mode fiber optic cables.

E. Cables from Server Room MDF to each IDF shall consist of four (4) 8-strand multi-mode fiber optic cables.

F. The communications cabling system will be labeled, tested, and documented by the Cabling Contractor.

1.11 SUBMITTALS (SEE DIVISION 1)

A. Submit manufacturer's data, test reports and certificates in accordance with Section 01 3000 - Administrative Requirements.

B. Manufacturer's Data:

1. Cable,
2. Inner-duct,
3. Multi-mode fiber optic connectors,
4. Fiber optic patch panel,

5. RJ-45 patch panels,
6. Cable management rings and strain relief bars,
7. Communication outlets,
8. Labeling system,
9. Firestop systems,
10. Cable ties, cable clamps, split mesh grips, cable hooks and cable supports,
11. Other hardware.

C. Certificates:

1. Subcontractor Certification: The installing subcontractor must be certified by the manufacturer of the proposed fiber optic cable and the copper communications cable. If different manufacturers will be used, there must be a company certification for each. Provide evidence of this certification as part of the submittal process. Company shall show evidence of a minimum of 5 years of cabling installation type work.
2. Foreman and Installer Certification: The foreman overseeing the job and all cable installers working on the installation of the communications cabling must be certified by the manufacturer of the communications cable, riser cable and fiber optic cables to install these cables. If different manufacturers will be used or the communications cable, riser and fiber optic cables, then the installers and foreman must be certified by the manufacturer of every copper or fiber optic cable to be installed. Provide evidence of certification to install the proposed communications cables.

PART 2 - Products

2.1 MANUFACTURERS

A. Cabling and Equipment:

1. General Cable: www.generalcable.com
2. Panduit: www.panduit.com
3. Substitutions: See Section 01 6000 - Product Requirements.

2.2 SYSTEM DESIGN

A. Provide a complete permanent system of cabling and pathways for voice and data communications, including cables, conduits and wireways, pull wires, support structures, enclosures and cabinets, and outlets.

1. Comply with TIA-568 (SET) (cabling) and TIA-569 (pathways) (commercial standards).

2. Provide fixed cables and pathways that comply with NFPA 70 and TIA-607 and are UL listed or third party independent testing laboratory certified.
3. Provide connection devices that are rated for operation under conditions of 32 to 140 degrees F (0 to 60 degrees C) at relative humidity of 0 to 95 percent, noncondensing.

B. System Description:
1. Building Entrance: Existing.
2. Backbones:
a. Provide (4) optical fiber backbone cables between MDF and each IDF at 1400 Stanford Ranch.
3. Horizontal Cabling: Copper from MDF/IDF to each workstation (data/voice outlet).
4. Offices and Work Areas: Provide one voice outlet and one data outlet in each work area.
5. Provide additional outlets where indicated on drawings.

C. Main Distribution Frame (MDF): Centrally located support structure for terminating horizontal cables that extend to telecommunications outlets, functioning as point of presence to external service provider.
1. At Annex Building: MDF is existing.
2. At 1400 Stanford Ranch Rd.: MDF is being provided by Owner.
3. Location of main distribution frame as indicated on the drawings.

D. Intermediate Distribution Frames (IDF): Support structures for terminating horizontal cables that extend to telecommunications outlets.
1. IDFs are existing to remain.

E. Backbone Cabling: Cabling, pathways, and terminal hardware connecting intermediate distribution frames (IDF's) with main distribution frame (MDF), wired in star topology with main distribution frame at center hub of star.

F. Cabling to Outlets: Specified horizontal cabling, wired in star topology to distribution frame located at center hub of star; also referred to as "links".

2.3 PATHWAYS

A. Conduit: As specified in Section 26 00 00; provide pull cords in all conduit.

2.4 COPPER CABLE AND TERMINATIONS

A. Copper Horizontal Cable: Category 6 solid conductor unshielded twisted pair (UTP), 24 AWG, 100 ohm; 4 individually twisted pairs; covered with blue jacket.

1. In locations other than in plenums, provide NFPA 70 type CMR riser-rated, or type CMP plenum-rated cable. General Cable P/N 7131900 or 7133900. Cable shall be plenum-rated in free air, riser rated in conduit.
2. Under floor or in damp locations, provide OSP rated cable. General Cable P/N 7136100.
3. Testing: Furnish factory reel tests.

B. Copper Cable Terminations: Insulation displacement connection (IDC) type using appropriate tool; use screw connections only where specifically indicated.

C. Jacks and Connectors: Modular RJ-45, non-keyed; high impact thermoplastic housing; suitable for and complying with same standard as specified horizontal cable; UL 1863 listed.

1. Voice and Data Jacks: 8-position modular jack, color-coded for both T568A and T568B wiring configurations. Panduit CJ6X88Tx. Verify color with PCOE I.T.

2.5 FIBER OPTIC CABLE AND INTERCONNECTING DEVICES

A. Fiber Optic Interconnecting Devices:

1. Connector Type: Type LC.

B. Fiber Optic Backbone Cable: 8-strand, multi-mode 50/125 um, covered with orange cable jacket, installed continuously without splices. General Cable ClearCurve OM2 fiber. Verify with PCOE I.T. Dept.

1. In plenums, provide NFPA 70 type OFNP nonconductive-plenum-rated cable.
2. Testing: Furnish factory reel tests.

C. Fiber Optic Horizontal Cable: 8-fiber, multi-mode 50/125 um, installed without splices. General Cable ClearCurve OM2 fiber.

1. In plenums, provide NFPA 70 type OFNP nonconductive-plenum-rated cable.
2. Testing: Furnish factory reel tests.

D. Fiber Optic Adapters and Connectors: Duplex LC.

2.6 IDENTIFICATION PRODUCTS

A. Comply with TIA-606.

2.7 CROSS-CONNECTION EQUIPMENT

A. Patch Panels for Copper Cabling: Sized to fit EIA standard 19 inch (482.6 mm) wide equipment racks; 0.09 inch (2.2 mm) thick aluminum; printed circuit board interface. Panduit UICMPP48BLY.

1. Jacks: RJ-45, suitable for and complying with same standard as cable to be terminated; maximum 48 ports per standard width panel.
2. Capacity: Provide ports sufficient for cables to be terminated plus 25 percent spare.
3. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606C using encoded identifiers.
4. Provide incoming cable strain relief and routing guides on back of panel. Panduit P/N SRBM19BLY.
5. Patch Cords: Provide one patch cord for each pair of patch panel ports. Panduit UTP28SpxBU. Verify length with PCOE I.T.

B. Patch Panels for Fiber Optic Cabling: Sized to fit EIA standard 19 inch (482.6 mm) wide equipment racks; 0.09 inch (2.2 mm) thick aluminum.

1. To match existing at existing IDFs.
2. Patch cords: Provide one patch cord for each pair of patch panel ports.

2.8 ENCLOSURES

A. Backboards: Interior grade plywood without voids, 3/4 inch (19 mm) thick; UL-labeled fire-retardant.

1. Size: 48 inches (1220 mm) wide by 96 inches (2440 mm) high.
2. Size: As indicated on drawings.
3. Do not paint over UL label.

B. Outlet Boxes: For flush mounting in walls; depth as required to accommodate cable manufacturer's recommended minimum conductor bend radius.

1. Size, Unless Otherwise Indicated: 4 inches (100 mm) square by 2-1/8 inches (54 mm) deep.
2. Wall Plates: High impact thermoplastic complying with system design standards and UL 514C. Panduit P/N CFPL2Xy (2-port) or P/N CFPL4Xy (4-port). Provide P/N CMBxx-X 1-port blank modules where necessary. Coordinate color to match existing on site.
3. Labels: Comply with TIA-606C using encoded identifiers; label each jack on the face plate as to its function with a unique numerical identifier.

4. Surface mount boxes for Access Points: Panduit P/N CBXQ2X-A. Verify color with PCOE I.T. Department.

2.9 FURNISH MATERIAL LISTED BELOW OR EQUAL

A. J-hooks.

2.10 MATERIALS

1. Riser backbone fiber optic cables:
   a. TIA standards for optical fiber cable,
2. NEC OFNR or OFNP rating,
   a. Install these cables in a single run without splices,
   b. 12-strand multi-mode fiber optic cable.

B. Horizontal Cables: Horizontal cables must be unshielded twisted pair (UTP) cables that meet the following specifications:

1. NEC rating CMP or CMR.
2. Conductors 24 AWG solid copper,
3. Meets TIA 568-A Physical Design requirements for horizontal 100-ohm UTP cables.
4. One cable is a 4-pair unshielded twisted-pair cable that meets or exceeds EIA/TIA 568-A Category 6 specifications. This portion of the cable will be referred to in this document as the “Level 6” or “Voice” portion of the cable.
5. One cable is a 4-pair unshielded twisted-pair cable that meets or exceeds EIA/TIA 568-A Category 6 specifications. This portion of the cable will be referred to in this document as the "Data" portion of the cable.
6. The cables must be clearly factory-labeled or colored at intervals no greater than 2 meters to easily measure the wiring runs.
7. A different color is required for each cable so that the two are easily recognized.
8. Whichever manufacturer is used, all horizontal cables for building shall be the same cable from the same manufacturer. They should also preferably be from the same lot. This avoids problems on LAN's with passive wiring hubs caused by cables with different electrical properties.

C. Backboards:

1. 3/4" fire resistant plywood backboard from the floor level to 8'-0" A.F.F. Paint matte white. Do not paint over fire label. Cutout over devices to allow

access. Attach to studs with #10 x 2" sheet metal screws (or #10 wood screws as applicable) at 24" on center maximum horizontal and 16" maximum vertical and within 2" of top and bottom. Ensure that a minimum of (1) Mill stamp is exposed from paint on each backboard panel. Provide a copy of the Mill certificate in the O&M manuals.

2.11 CABLING SYSTEM COMPONENTS

A. The innerduct for fiber optic cable shall be 1 inch inside diameter crush-resistant orange innerduct with pull rope or pull tape. The innerduct must be spiral ribbed on the inside surface if the innerduct to minimize cable-pulling resistance. The innerduct must also be straight ribbed on the outside of the cable to reduce innerduct pulling resistance and to allow adjacent inner-ducts to lock together. Corrugated inner-ducts are not acceptable because they are more likely to stretch and break. Innerduct couplers shall be used to securely join two ends of innerduct. Amco is one vendor of innerduct that meets these specifications. Innerduct will be required for all riser fiber optic cables.

B. LC compatible connectors for the riser fiber optic cables; provide additional 10 percent spare connectors will likely be required to replace defective or improperly installed connectors.

C. The fiber optic patch panels shall be rack-mountable in standard equipment rack, with sleeves for multi-mode LC connectors. Connector sleeves may be angled a maximum of 45 degrees.

D. The Cable Management Rings and Strain Relief Bars for the equipment racks in the TC's shall meet the following specifications:

1. Horizontal wire management panel:
    a. Mountable in an EIA standard 19-inch rack,
    b. Uses 2 rack positions (3.5 inches),
    c. Has at least four split G- or C-shaped vertical rings,
    d. Rings are between 3 inches and 3.5 inches high and at least 2 inches deep,
    e. One horizontal wire management panel is required above each 48-port patch panel. Another horizontal wire management panel is required below the last patch panel on each rack (or on the top of the rack if the rack is empty).
2. Strain relief bars:
    a. Mount horizontally across the rear of the 19-inch equipment racks behind and just above the 48-port patch panels without interfering with the patch panel connectors and cables,

b. Permits cables to be secured evenly spaced across the strain relief bar,
c. Uses no more than one-rack position (1.75 inches),
d. One strain relief bar is needed for each 48-port patch panel.

E. Communication Outlets shall meet the following specifications:
1. Has three 8-position modular jacks (Mod-Tap),
2. One jack must be color-coded white or be factory labeled "VOICE". Also, this jack must be labeled "A" by the Cabling Contractor.
3. The other jacks must be color-coded orange or be factory labeled "DATA". Also, this jack must be labeled "B" by the Cabling Contractor.
4. Both voice and data jacks must be able to terminate 22 through 24 AWG wire,
5. Must be able to mount in a standard single gang electrical wall outlet box,
6. Must have ears for mounting in floor hatches and wall outlets,
7. Color of faceplate must match existing on site. Depending on the floor hatch, different faceplates may be required for wall-mounted faceplates and faceplates mounted in the floor hatches. Some floor hatches use non-standard size faceplates,
8. Wire terminations must use insulation displacement contact hardware,
9. Jacks must be permanently mounted or snap securely into mounting,
10. Must comply with UL 1863 standard,
11. Must meet or exceed Category 6 standards for UTP connecting hardware,

F. Labeling: The Cabling Contractor shall supply wrap-around self-laminating cable labels of various sizes for labeling cables, about 1,200 small white labels for labeling each patch panel port, about 25 medium white labels for labeling each patch panel and about 197 large white labels (1.52 inches wide x 2.54 inches long) for labeling each block cover.

G. The installed firestop putty must meet the following requirements:
1. Underwriters Laboratories (UL) classified for up to and including 2 hours,
2. Non-hardening, permanently pliable to permit removal and reinstallation,
3. Dielectric and water-resistant putty,
4. Shall not contain any solvents or inorganic fibers,
5. Additional damming material must also be provided and installed as required to install the firestop putty according to the manufacturer's instructions. Flame-

Safe FSP1000 Putty from International Protective Coating is one product that meets these specifications.

H. The installed firestop pillow or bags must meet the following requirements:
   1. UL classified for this use,
   2. Re-usable,
   3. Heat-expanding,
   4. No curing,
   5. Free of asbestos,
   6. Additional materials shall be provided and installed as required to install the firestop pillows or bags according to manufacturers' instructions. KBS Seal-bags from International Protective Coatings is one product that meets these specifications.

I. Install replacement pull wires to replace existing pull wires when pulling cables through conduits and inner-ducts longer than three feet (3 feet). These specifications shall also be met for the pull wires originally installed in conduits by the Electrical Contractor.
   1. For conduits 2 inches or less in diameter, the pull wires must be 12-gauge steel wire or a nylon line. In either case, the minimum pulling tension must be 200 pounds.
   2. In inner-ducts, replacement pull ropes matching the original pull ropes installed in the innerduct shall be installed. If possible, reinstall the original pull rope.

J. Cable ties, cable clamps, split mesh grips, cable hooks, and cable supports, are required to support the cables and dress the cables in a tidy manner. Cable clamps or supports are needed for riser backbone cables. Every fiber optic cable shall be supported at the top of its vertical run using a split mesh grip. Cable hooks are required for horizontal cabling.

K. Other hardware: The Cabling Contractor shall supply screws, washers, nuts, lugs, bolts, and other hardware required for proper installation of the cabling system. The Cabling Contractor is also expected to provide its own tools, portable radios, expendables, and test equipment for proper installation, labeling, and testing of the cabling system. The Cabling Contractor shall provide its own personal computer, printer, and software to produce the electronic and printed copies of the documentation specified in this section.

PART 3 - Execution

3.1 INSTALLATION OF PATHWAYS

A. Install pathways with the following minimum clearances:

1. 48 inches (1220 mm) from motors, generators, frequency converters, transformers, x-ray equipment, and uninterruptible power systems.
2. 12 inches (300 mm) from power conduits and cables and panelboards.
3. 6 inches (150 mm) from flues, hot water pipes, and steam pipes.

B. Conduit (in Addition to Requirements of Section 26 0000):

1. Do not install more than 2 (two) 90-degree bends in a single horizontal cable run.
2. Leave pull cords in place where cables are not initially installed.
3. Conceal conduit under floor slabs and within finished walls, ceilings, and floors except where specifically indicated to be exposed.
   a. Conduit may remain exposed to view in mechanical rooms, electrical rooms, and telecommunications rooms.
   b. Treat conduit in crawl spaces and under floor slabs as if exposed to view.
   c. Where exposed to view, install parallel with or at right angles to ceilings, walls, and structural members.
   d. Under floor slabs, locate conduit at 12 inches (300 mm), minimum, below vapor retarder; seal penetrations of vapor retarder around conduit.

C. Outlet Boxes:

1. Coordinate locations of outlet boxes provided under Section 26 0000 as required for installation of telecommunications outlets provided under this section.
   a. Mounting Heights: Unless otherwise indicated, as follows:
      1) Telephone and Data Outlets: 18 inches (450 mm) above finished floor.
   b. Orient outlet boxes for vertical installation of wiring devices unless otherwise indicated.
   c. Provide minimum of 24 inches (600 mm) horizontal separation between flush mounted outlet boxes installed on opposite sides of fire rated walls.
   d. Unless otherwise indicated, provide separate outlet boxes for line voltage and low voltage devices.
   e. Locate outlet boxes so that wall plate does not span different building finishes.
   f. Locate outlet boxes so that wall plate does not cross masonry joints.

D. Grounding and Bonding: Perform in accordance with ANSI/J-STD-607 and NFPA 70.

E. Firestopping: Seal openings around pathway penetrations through fire-rated walls, partitions, floors, and ceilings in accordance with Section 07 8400.

3.2 INSTALLATION OF EQUIPMENT AND CABLING

A. Cabling:

1. Do not bend cable at radius less than manufacturer's recommended bend radius; for unshielded twisted pair use bend radius of not less than 4 times cable diameter.
2. Do not over-cinch or crush cables.
3. Do not exceed manufacturer's recommended cable pull tension.
4. When installing in conduit, use only lubricants approved by cable manufacturer and do not chafe or damage outer jacket.

B. Service Loops (Slack or Excess Length): Provide the following minimum extra length of cable, looped neatly:

1. At Distribution Frames: 120 inches (3000 mm).
2. At Outlets - Copper: 12 inches (305 mm).
3. Optical Fiber: 60 inches (1524 mm).

C. Copper Cabling:

1. Category 6 and Above: Maintain cable geometry; do not untwist more than 1/2 inch (12 mm) from point of termination.
2. For 4-pair cables in conduit, do not exceed 25 pounds (110 N) pull tension.
3. Use T568B wiring configuration.
4. Copper Cabling Not in Conduit: Use only type CMP plenum-rated cable as specified.
5. Install 4-pair voice and data UTP station cables to all outlets as shown on drawings, with jack placed in faceplates.
6. Typical systems furniture will be run in space provided by the manufacturer. Only (6) workstations may be served from one service point.

D. Fiber Optic Cabling:

1. Prepare for pulling by cutting outer jacket for 10 inches (250 mm) from end, leaving strength members exposed. Twist strength members together and attach to pulling eye.
2. Support vertical cable at intervals as recommended by manufacturer.
3. Fiber optic cables shall be labeled in pairs at each end and at cross-connect points with building, room number, pair number, and strand (NT-301-06-F1).

E. Identification:

1. Use wire and cable markers to identify cables at each end.

F. Field-Installed Labels: Comply with TIA-606C using encoded identifiers.

1. Cables: Install color coded labels on both ends.
2. Outlets: Label each jack on its face plate as to its type and function, with a unique numerical identifier.
3. Patch Panels: Label each jack as to its type and function, with a unique numerical identifier.
4. Patch Cords: Label with jack identifier corresponding to initial installation.

3.3 FIELD QUALITY CONTROL

A. See Section 01 45 00 - Quality Requirements, for additional requirements.

B. Comply with inspection and testing requirements of specified installation standards.

C. Visual Inspection:

1. Inspect cable jackets for certification markings.
2. Inspect cable terminations for color coded labels of proper type.
3. Inspect outlet plates and patch panels for complete labels.
4. Inspect patch cords for complete labels.

D. Testing - Copper Cabling and Associated Equipment:

1. Test backbone cables after termination but before cross-connection.
2. Test backbone cables for DC loop resistance, shorts, opens, intermittent faults, and polarity between connectors and between conductors and shield, if cable has overall shield.
3. Test operation of shorting bars in connection blocks.

4. Category 6 and Above Backbone: Perform near end cross talk (NEXT) and attenuation tests.
5. Category 6 and Above Links: Perform tests for wire map, length, attenuation, NEXT, and propagation delay.

E. Testing - Fiber Optic Cabling:
1. Backbone: Perform optical fiber end-to-end attenuation test using an optical time domain reflectometer (OTDR) and manufacturer's recommended test procedures; perform verification acceptance tests and factory reel tests.
2. Multimode Backbone: Perform tests in accordance with TIA-526.
3. Links: Perform optical fiber end-to-end attenuation tests and field reel tests.

F. Final Testing: After all work is complete, including installation of telecommunications outlets, and telephone dial tone service is active, test each voice jack for dial tone.

3.4 GENERAL

A. Perform all installation work in a neat, high-quality manner using qualified craftspeople.

B. Place cables with sufficient bending radius so as not to kink, shear, or damage jackets, binder or cables, including where cables are coiled for future use or slack. Do not exceed manufacturers' specified bending radii. Do no wrap cables around the feet of systems furniture.

C. Do not pull tie wraps so tight as to kink or crimp the cable jackets.

D. In no event shall any station cables be spliced (between closets and workstation locations).

E. Ceiling tiles broken or defaced by the Contractor during the installation and testing process shall be replaced at the cost to the Contractor.

F. Ensure that all floor and wall penetrations will be firestop rated to the satisfaction of the Owner and as required by applicable codes. Provide firestop, after cables have been installed, tested and documented.

G. Provide engineering quantities of and installing any necessary J-hooks for routing cables in ceiling plenum space. Place J-hooks at a minimum of every four feet (4 feet) along cable routes. They should also be placed at every drop point such as conduit stub-up, without exception, and wherever support is needed to avoid sagging or to avoid touching piping, ducting or other trades' work. Attaching or

draping cables to ceiling wire grid, other pipes, light fixtures, etc. will not be permitted. Rather contractor must provide separate ceiling wire for securing J-hooks. Use of the ceiling wire grid installed by others is not permitted.

H. Individually and properly ground all relay racks, ladder rack, equipment cabinets and inside and outside plant cable shields, wherever the cables leave the sheaths, to Owner-supplied building grounds.

I. Individually and properly ground, all voice punch-down cable frames and other Contractor-supplied hardware in the Main Distribution frame as required to the Owner-supplied signal ground points.

J. Do not daisy-chain equipment grounding.

K. Conform grounding to TIA-607 and CEC Articles 250 and 800. CEC Article 800-40 requires minimum #6 AWG, or better, wire be used for grounding to main building ground.

L. Perform daily clean-up following all installations and terminations.

M. Provide a project manager who has demonstrated the ability to supervise a project of this magnitude. The project manager must be available to be interviewed by the Owner and/or their representative. Acceptance will not be unreasonably withheld.

3.5 TESTING

A. Testing: Contractor shall test each fiber strand and each pair of twisted pair copper cable after labeling is 100% complete. The Owner reserves the right to have a representative present during testing.

B. Fiber Optics Cable: Each strand shall undergo bi-directional testing for signal attenuation losses.

1. Test Equipment: Fluke OptiFiber Pro OTDR.

C. Workstation Cable: Each workstation cable shall be tested from the jack panel to the data outlet after labeling is completed.

1. Test Equipment: Fluke DSP-4000 or equivalent.

2. Tests Conform to EIA/TIA standards for Category 6.

3. Test Criteria: Tested to Category 6 for permanent link compliance.

D. Any cables failing to meet above indicated standards must be removed and replaced, at no cost to the Owner, with cables that prove, in testing, to meet the standards. The installation will not be accepted until testing has reported that all pairs in all cables meet the appropriate standards.

3.6 DOCUMENTATION

A. Cable Records: Provide a database of cable records, both hard copy and in pdf format. The cable records format must include at least the following information about each cable:

1. Building,
2. Floor,
3. Room/Location code/jack ID,
4. Rise/backbone or distribution cable pair assignments,
5. Test results,
6. Station cable lengths/overall loop resistance.

B. Project Documentation: Submit the following immediately upon completion of testing and labeling of System. They will be used by the Owner for making data and voice equipment connections to the System:

1. As-built drawings showing location of all technology outlets, cable location numbers, conduit, ladder rack, sleeves and J-hooks.
2. Documentation of all backbone cable and pair routing and assignments.
3. Documentation showing station and backbone terminations and assignments.
4. Documentation of all main distribution frame (MDF/IDF) terminations.
5. Test results.
6. Manuals of operation and training, as required.

3.7 ACCEPTANCE

A. Acceptance of the Data Communications System, by the Owner, shall be based on the results of testing, functionality, and the receipt of documentation.

1. With regard to testing, all fiber segments and workstation data cables must meet the testing criteria established in Section 3.07 above.

2. With regard to functionality, contractor must demonstrate to the Owner that Gigabit Ethernet data signals can be successfully transmitted bi-

directionally, from the MDF/IDF to and from a number of individual data outlets.

3. No more than 5% of the data jacks will be tested for functionality. If any location fails, an additional 5% will be tested until no additional links fail.

4. All required documentation shall be submitted to Owner.

END OF SECTION

SECTION 08 33 23
Overhead Coiling Doors

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Steel overhead coiling doors.

B. Aluminum overhead coiling doors.

1.2 REFERENCES

A. ASTM A480 - Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip.

B. ASTM A653 – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron, Alloy-Coated (Galvannealed) by the Hot-Dip Process.

C. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

D. UL - Underwriters' Laboratories, Inc.

1.3 SUBMITTALS

A. Submit under provisions of Section 01 33 00.

B. Provide Data and Shop Drawings: Submit literature and specifications. Provide pertinent dimensioning, general construction, component connections and details, anchorage methods, hardware location, and installation details.

C. Submit manufacturer's installation instructions.

D. Submit manufacturer's operation and maintenance data.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS - OVERHEAD COILING DOORS

A. The Cookson Company, (800) 698-9023., www.cooksondoor.com

B. Overhead Door Corp., (415) 934-1200., www.overheaddoor.com

C. Pacific Rolling Door Co., (800) 773-7269.

D. Substitutions: Under provisions of Section 01 62 00.

2.2 ACCEPTABLE MANUFACTURERS - OVERHEAD COILING COUNTER DOORS

A. Connors Overhead Door Co., Inc., (510) 526-1211.

B. The Cookson Co., (800) 698-9023., www.cooksondoor.com

C. Overhead Door Corp., (415) 934-1200., www.overheaddoor.com

D. Substitutions: Under provisions of Section 01 62 00.

2.3 STEEL OVERHEAD COILING DOORS [NON-RATED]

A. Insulated Curtain: Minimum 0.0269" thick flat slats of steel with back panels, ASTM A653, commercial steel, Type A, G60 ; galvanized coating in accordance with ASTM A924; 2 7/8" wide x required length; ends of alternate slats fitted with endlocks to act as wearing surface in guides and to prevent lateral movement; bottom fitted with aluminum extrusion to provide reinforcement and positive contact with floor in closed position. Slats to be filled with foamed-in-place polyurethane insulation.

B. Curtain Guides: Formed steel channels and angles for required sizes and configurations.

C. Roller Shaft (Counterbalance): Steel pipe and helical steel spring system capable of producing sufficient torque to assure easy operation of curtain from any position; adjustable spring tension.

D. Hood: 0.020" thick galvanized steel; internally reinforced to maintain rigidity and form.

E. Weatherstripping: Water- and rot-proof, resilient type; located along jamb edges, bottom of curtain, and within housing.

F. Hardware: As specified in Section 08 71 00.

G. Chain Hoist Operation: Continuous emergency hand chain hoist with gear reduction.

H. Electric Operator: Activated by smoke detection or fire alarm system, UL Approved in accordance with UL 325; side mounted 120 volt, single phase 60 Hz supply to 1/2 HP electric motor; adjustable friction clutch, double shoe brake system actuated by independent full line voltage solenoid controlled by motor starter; fully enclosed positive gear driven limit switch; fully enclosed magnetic cross line reversing starter. Cookson "Soft-Close" governor or approved equal, to maintain closing speed between 6" and 9" per second.

1. Control Station: Standard three button (open-close-stop) control for each operator; recessed mounted with stainless steel locking lever.

2. Safety Device: Cookson "Featheredge" or approved equal. Located at bottom of doors; electromechanical type; wired to reverse door upon striking object; neoprene or rubber covered to proved weather seal.

2.4 ALUMINUM OVERHEAD COILING DOORS

A. Curtain: Minimum 14 gauge flat perforated aluminum slats at doors over 16' long, 16 gauge flat perforated slats at doors 10' long and under; 2-1/2" nominal thickness x required length; ends of alternate slats fitted with endlocks to act as a wearing surface in guides and to prevent lateral movement; bottom fitted with angles to provide reinforcement and positive contact with floor in closed position.

B. Curtain Guides: Formed steel channels and angles for required sizes and configuration.

C. Roller Shaft (Counterbalance): Steel pipe and helical steel spring system capable of producing sufficient torque to assure easy operation of curtain. Adjustable spring tension.

D. Hood: 24 gauge galvanized steel; internally reinforced to maintain rigidity and form. Coordinate with requirement for custom hood, if shown on Drawings.

E. Weatherstripping: Water-proof and rot-proof, resilient type; located along jamb edges, bottom of curtain, and within housing.

F. Hardware: As specified in Section 08 71 00.

G. Chain Hoist Operation: Continuous emergency hand chain hoist with gear reduction.

H. Electric Operator: UL Approved in accordance with UL 325; side mounted 120 volt, single phase 60 Hz supply to 1/2 horsepower electric motor; adjustable friction clutch, double shoe brake system actuated by independent full line voltage solenoid controlled by motor starter; fully enclosed positive gear driven limit switch; fully enclosed magnetic cross line reversing starter.

1. Control Station: Standard three button (open-close-stop) control for each operator; recessed mounted with stainless steel locking lever.

2. Safety Device: Located at bottom of doors, with width; electro-mechanical type; wired to reverse door upon striking object; neoprene or rubber covered to provide weather seal.

2.5 FINISH

A. Overhead Coiling Steel Doors: Factory-applied thermosetting powder-coating not less than 2 mils thick, Cookson "ColorCote" or approved equal; color to be selected by Architect from manufacturer's standard colors.

B. Overhead Coiling Aluminum Doors: Clear anodized aluminum.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install overhead coiling doors, and coiling counter doors in accordance with manufacturer's instructions and approved Shop Drawings. Coordinate installation with electric service.

B. Fit, align, and adjust door assemblies level and plumb; provide smooth operation.

END OF SECTION

SECTION 08 71 00
Door Hardware
(365 Nevada Street)

PART 1 - GENERAL

1.1 SUMMARY:

A. Section Includes: Finish Hardware for door openings, except as otherwise specified herein.

1. Door hardware for wood doors.

2. Door hardware for other doors indicated.

3. Keyed cylinders as indicated.

B. Related Sections:

1. Division 8: Wood Doors.

C. References: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.

1. Builders Hardware Manufacturing Association (BHMA)

2. NFPA 101 Life Safety Code

3. NFPA 80 -Fire Doors and Windows

4. ANSI-A156.xx- Various Performance Standards for Finish Hardware

5. UL10C – Positive Pressure Fire Test of Door Assemblies

6. ANSI-A117.1 – Accessible and Usable Buildings and Facilities

7. DHI /ANSI A115.IG – Installation Guide for Doors and Hardware

D. Intent of Hardware Groups

1. Should items of hardware not definitely specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.

2. Where items of hardware aren't definitely or correctly specified, are required for completion of the Work, a written statement of such omission, error, or other discrepancy to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality

established by this specification, and appropriate to the service intended.

1.2 SUBSTITUTIONS:

A. Not allowed.

1.3 SUBMITTALS:

A. Comply with Division 1.

B. Special Submittal Requirements: Coordinate submittals of this Section with related Sections to ensure the "design intent" of the system/assembly is understood and can be reviewed together.

C. Product Data: Manufacturer's specifications and technical data including the following:

1. Detailed specification of construction and fabrication.

2. Manufacturer's installation instructions.

3. Wiring diagrams for each electric product specified. Coordinate voltage with electrical before submitting.

4. Submit 6 copies of catalog cuts with hardware schedule.

D. Shop Drawings - Hardware Schedule: Submit 4 complete reproducible copy of detailed hardware schedule in a vertical format.

1. List groups and suffixes in proper sequence.

2. Completely describe door and list architectural door number.

3. Manufacturer, product name, and catalog number.

4. Function, type, and style.

5. Size and finish of each item.

6. Mounting heights.

7. Explanation of abbreviations and symbols used within schedule.

8. Detailed wiring diagrams, specially developed for each opening, indicating all electric hardware, security equipment and access control equipment, and door and frame rough-ins required for specific opening.

E. Templates: Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing

and locations of cutouts and reinforcing.

1. Templates, wiring diagrams and "reviewed Hardware Schedule" of electrical terms to electrical for coordination and verification of voltages and locations.

F. Samples:

1. Not used

G. Contract Closeout Submittals: Comply with Division 1 including specific requirements indicated.

1. Operating and maintenance manuals: Submit 3 sets containing the following.

a. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.

b. Catalog pages for each product.

c. Name, address, and phone number of local representative for each manufacturer.

d. Parts list for each product.

2. Copy of final hardware schedule, edited to reflect, "As installed".

3. Copy of final keying schedule

4. As installed “Wiring Diagrams” for each piece of hardware connected to power, both low voltage and 110 volts.

5. One set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

1.4 QUALITY ASSURANCE

A. Comply with Division 1.

1. Statement of qualification for distributor and installers.

2. Statement of compliance with regulatory requirements and single source responsibility.

a. Distributor's Qualifications: Firm with 3 years experience in the distribution of commercial hardware.

b. Distributor to employ full time Architectural Hardware Consultants (AHC) for the purpose of scheduling and coordinating hardware and establishing keying schedule.

c. Hardware Schedule shall be prepared and signed by an AHC.

3. Installer's Qualifications: Firm with 3 years experienced in installation of similar hardware to that required for this Project, including specific requirements indicated.

4. Regulatory Label Requirements: Provide testing agency label or stamp on hardware for labeled openings.

a. Provide UL listed hardware for labeled and 20 minute openings in conformance with requirements for class of opening scheduled.

b. Underwriters Laboratories requirements have precedence over this specification where conflict exists.

5. Single Source Responsibility: Except where specified in hardware schedule, furnish products of only one manufacturer for each type of hardware.

B. Review Project for extent of finish hardware required to complete the Work. Where there is a conflict between these Specifications and the existing hardware, notify the Architect in writing and furnish hardware in compliance with the Specification unless otherwise directed in writing by the Architect.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Packing and Shipping: Comply with Division 1.

1. Deliver products in original unopened packaging with legible manufacturer's identification.

2. Package hardware to prevent damage during transit and storage.

3. Mark hardware to correspond with "reviewed hardware schedule".

4. Deliver hardware to door and frame manufacturer upon request.

B. Storage and Protection: Comply with manufacturer's recommendations.

1.6 PROJECT CONDITIONS:

A. Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as necessary for the proper installation and function, regardless of omissions or conflicts in the information on the Contract

Documents.

B. Review Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.7 WARRANTY:

A. Refer to Conditions of the Contract

1. Manufacturer's Warranty:

2. Closers: Ten years

3. Exit Devices: Three Years

4. Locksets & Cylinders: Three years

5. All other Hardware: Two years.

1.8 OWNER'S INSTRUCTION:

A. Instruct Owner's personnel in operation and maintenance of hardware units.

1.9 MAINTENANCE:

A. Extra Service Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals Section.

1. Special Tools: Provide special wrenches and tools applicable to each different or special hardware component.

2. Maintenance Tools: Provide maintenance tools and accessories supplied by hardware component manufacturer.

3. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra service materials.

B. Maintenance Service: Submit for Owner's consideration maintenance service agreement for electronic products installed.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS:

The following manufacturers are approved subject to compliance with requirements of the Contract Documents. Approval of manufacturers other than those listed shall

be in accordance with Division 1.

	Item	Manufacturer	Acceptable Substitute
A.	Hinges	Stanley	Bommer, McKinney
B.	Continuous Hinges	Stanley	Select, ABH
C.	Locksets	Best	Schlage
D.	Cylinders	Best	Schlage
E.	Exit Devices	Von Duprin	Precision
F.	Closers	LCN	Dorma
G.	Push/Pull Plates	Trimco	Hager, Rockwood
H.	Push/Pull Bars	Trimco	Hager, Rockwood
I.	Protection Plates	trimco	Hager, Rockwood
J.	Overhead Stops	ABH	Rixson, Glynn Johnson
K.	Door Stops	Ives	Trimco, Hager, Rockwood
L.	Flush Bolts	Ives	Trimco, ABH, Rockwood
M.	Coordinator & Brackets	Trimco	ABH, Rockwood
N.	Threshold & Gasketing	Pemko	Reese, National Guard

2.2 MATERIALS:

A. Hinges: Shall be Five Knuckle Ball bearing hinges

1. Template screw hole locations
2. Bearings are to be fully hardened.
3. Bearing shell is to be consistent shape with barrel.
4. Minimum of 2 permanently lubricated non-detachable bearings on standard weight hinge and 4 permanently lubricated bearing on heavy weight hinges.
5. Equip with easily seated, non-rising pins.
6. Non Removable Pin screws shall be slotted stainless steel screws.
7. Hinges shall be full polished, front, back and barrel.

8. Hinge pin is to be fully plated.

9. Bearing assembly is to be installed after plating.

10. Sufficient size to allow 180-degree swing of door

11. Furnish five knuckles with flush ball bearings

12. Provide hinge type as listed in schedule.

13. Furnish 3 hinges per leaf to 7 foot 6 inch height. Add one for each additional 30 inches in height or fraction thereof.

14. Tested and approved by BHMA for all applicable ANSI Standards for type, size, function and finish

15. UL10C listed for Fire

B. Physical Characteristics:

1. Lock dimensions shall not protrude more than 4-1/4" from face of the door. Operational Temperature Range 31 degrees F below zero / 150 degrees F above zero with standard alkaline batteries.

2. Humidity up to 95% without condensation.

3. Power Supply - 4 AA alkaline pack (included).

4. Power Consumption 20 mA in standby mode.

C. Cylindrical Type Locks and Latchsets:

1. Tested and approved by BHMA for ANSI A156.2, Series 4000, Operational Grade 1, Extra-Heavy Duty, and be UL10C listed

2. Fit modified ANSI A115.2 door preparation

3. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty

4. Locksets to have anti-rotational studs that are thru-bolted

5. Keyed lever shall not have exposed "keeper" hole

6. Each lever to have independent spring mechanism controlling it

7. 2-3/4 inch (70 mm) backset

8. 9/16 inch (14 mm) throw latchbolt

9. Provide sufficient curved strike lip to protect door trim

10. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy

11. Keyed lever to be removable only after core is removed, by authorized control key

12. Provide locksets with 7-pin removable and interchangeable core cylinders

13. Hub, side plate, shrouded rose locking pin to be a one-piece casting with a shrouded locking lug.

14. Locksets outside locked lever must withstand a minimum 1400 inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset

15. Core face must be the same finish as the lockset

16. Functions and design as indicated in the hardware groups

D. Exit Devices shall:

1. Tested and approved by BHMA for ANSI 156.3, Grade 1

2. Provide a deadlocking latchbolt

3. Non-fire rated exit devices shall have cylinder dogging.

4. Touchpad shall be “T” style

5. Exposed components shall be of architectural metals and finishes.

6. Lever design shall match lockset lever design

7. Provide strikes as required by application.

8. Fire exit devices to be listed for UL10C

9. UL listed for Accident Hazard

10. Shall consist of a cross bar or push pad, the actuating portion of which extends across, shall not be less than one half the width of the door leaf.

11. Provide vandal resistant or breakaway trim

12. Aluminum vertical rod assemblies are acceptable only when provide with the manufacturers optional top and bottom stainless steel rod guard protectors

E. Door Closers shall:

1. Tested and approved by BHMA for ANSI 156.4, Grade 1
2. UL10C certified
3. Closer shall have extra-duty arms and knuckles
4. Conform to ANSI 117.1
5. Maximum 2 7/16 inch case projection with non-ferrous cover
6. Separate adjusting valves for closing and latching speed, and backcheck
7. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions
8. Full rack and pinion type closer with 1½" minimum bore
9. Mount closers on non-public side of door, unless otherwise noted in specification
10. Closers shall be non-handed, non-sized and multi-sized.

F. Door Stops: Provide a dome floor or wall stop for every opening as listed in the hardware sets.

1. Wall stop and floor stop shall be wrought bronze, brass or stainless steel.
2. Provide fastener suitable for wall construction.
3. Coordinate reinforcement of walls where wall stop is specified.
4. Provide dome stops where wall stops are not practical. Provide spacers or carpet riser for floor conditions encountered

G. Over Head Stops: Provide a Surface mounted or concealed overhead when a floor or wall stop cannot be used or when listed in the hardware set.

1. Concealed overhead stops shall be heavy duty bronze or stainless steel.
2. Surface overhead stops shall be heavy duty bronze or stainless steel.

H. Push Plates: Provide with four beveled edges ANSI J301, .050 thickness, size as indicated in hardware set. Furnish oval-head countersunk screws to match finish.

I. Pulls with plates: Provide with four beveled edges ANSI J301, .050 thickness Plate s with ANSI J401 Pull as listed in hardware set. Provide proper fasteners for door construction.

J. Push Pull Bars: Provide ANSI J504, .1" Dia. Pull and push bar model and series as listed in hardware set. Provide proper fasteners for door construction.

K. Kickplates: Provide with four beveled edges ANSI J102, 10 inches high by width less 2 inches on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

L. Mop plates: Provide with four beveled edges ANSI J103, 4 inches high by width less 1 inch on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

M. Door Bolts: Flush bolts for wood or metal doors.

1. Provide a set of Automatic bolts ANSI/BHMA 156.3 Type 25 for hollow metal label doors.

2. Provide a set of Automatic bolts ANSI/BHMA 156.3 Type 27 at wood label doors.

3. Manual flush bolts ANSI/BHMA 156.16 at openings where allowed local authority.

4. Provide Dust Proof Strike ANSI/BHMA 156.16 at doors with flush bolts without thresholds.

N. Coordinator and Brackets: Provide a surface mounted coordinator when automatic bolts are used in the hardware set.

1. Coordinator shall comply with ANSI/BHMA A1156.3 Type 21A full width of the opening.

2. Provide mounting brackets for soffit applied hardware.

3. Provide hardware preparation (cutouts) for latches as necessary.

O. Power Supply: Provide power supply for (ELR) Electric Latch Retraction exit devices

1. Motherboard will accept up to four plug-in Control Modules. Provide the appropriate necessary control module to operate the number of ELR exit devices used at each opening. The Control Module shall include a Time delay Feature, variable (0-4 minutes) latch retraction period in response to a momentary input.

2. UL Listed for class II output

3. Include circuit breakers for protection of motherboard

4. 115 or 230 Volt user selectable switch, with AC input= 115 Volt at 1 Amp

5. Control module shall include Fire alarm terminal and Auxiliary contacts for remote signaling.

6. Optional card for Battery Backup (BT) power tap module to operate a Card reader or when ELR devices require battery backup (Lead Acid Batteries are not included and is to be furnished by others)

7. Precision ELR150 Series with the required modules.

P. Seals: All seals shall be finished to match adjacent frame color. Seals shall be furnished as listed in schedule. Material shall be UL listed for labeled openings.

Q. Weatherstripping: Provide at head and jambs only those units where resilient or flexible seal strip is easily replaceable. Where bar-type weatherstrip is used with parallel arm mounted closers install weatherstrip first.

1. Weatherstrip shall be resilient seal of Vinyl, Neoprene or Silicone

2. UL10C Positive Pressure rated seal set when required.

R. Door Bottoms/Sweeps: Surface mounted or concealed door bottom where listed in the hardware sets.

1. Door seal shall be resilient seal of Neoprene or Silicone

2. UL10C Positive Pressure rated seal set when required.

S. Thresholds: Thresholds shall be aluminum beveled type with maximum height of ½" for conformance with ADA requirements. Furnish as specified and per details. Provide fasteners and screws suitable for floor conditions.

T. Silencers: Furnish silencers on all interior frames, 3 for single doors, 2 for pairs. Omit where any type of seals occur.

2.3 FINISH:

A. Designations used in Schedule of Finish Hardware - 3.5, and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products

B. Powder coat door closers to match other hardware, unless otherwise noted.

C. Aluminum items shall be finished to match predominant adjacent material. Seals to coordinate with frame color.

2.4 KEYS AND KEYING:

A. Provide keyed brass construction cores and keys during the construction period. Construction control and operating keys and core shall not be part of the Owner's permanent keying system or furnished in the same keyway (or key

section) as the Owner's permanent keying system. Permanent cores and keys (prepared according to the accepted keying schedule) will be furnished to the Owner.

B. Cylinders, removable and interchangeable core system: Best Patented CorMax 7-pin.

C. Permanent keys and cores: Stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate."

D. Transmit Grand Masterkeys, Masterkeys and other Security keys to Owner by Registered Mail, return receipt requested.

E. Furnish keys in the following quantities:

1. 2 each Grand Masterkeys

2. 4 each Masterkeys

3. 2 each Change keys each keyed core

4. 15 each Construction masterkeys

5. 3 each Control keys

F. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Hardware Supplier. Construction cores and keys remain the property of the Hardware Supplier.

G. Keying Schedule: Arrange for a keying and programming meeting with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct, programming and keying complies with project requirements. Furnish 3 typed copies of keying schedule to Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verification of conditions: Examine doors, frames, related items and conditions under which Work is to be performed and identify conditions detrimental to proper and or timely completion.

1. Do not proceed until unsatisfactory conditions have been corrected.

3.2 HARDWARE LOCATIONS:

A. Mount hardware units at heights indicated in the following publications except as specifically indicated or required to comply with the governing regulations.

1. Recommended Locations for Builder's Hardware for Standard Steel Doors and Frames, by the Door and Hardware Institute (DHI).

2. Recommended locations for Architectural Hardware for flush wood doors (DHI).

3. WDMA Industry Standard I.S.-1A-04, Industry Standard for Architectural wood flush doors.

3.3 INSTALLATION:

A. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

B. Conform to local governing agency security ordinance.

C. Install Conforming to ICC/ANSI A117.1 Accessible and Usable Building and Facilities.

1. Adjust door closer sweep periods so that from the open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the landing side of the door.

D. Installed hardware using the manufacturers fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.

3.4 FIELD QUALITY CONTROL AND FINAL ADJUSTMENT

A. Contractor/Installers, Field Services: After installation is complete, contractor shall inspect the completed door openings on site to verify installation of hardware is complete and properly adjusted, in accordance with both the Contract Documents and final shop drawings.

1. Check and adjust closers to ensure proper operation.

2. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.

a. Verify levers are free from binding.

b. Ensure latchbolts and dead bolts are engaged into strike and hardware

is functioning.

3. Report findings, in writing, to architect indicating that all hardware is installed and functioning properly. Include recommendations outlining corrective actions for improperly functioning hardware if required.

3.5 SCHEDULE OF FINISH HARDWARE:

Refer to plans for door handing unless otherwise noted.

Hardware: A (MAINTENANCE REPAIRS / HALLWAY)

Door #132C, 134A – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-B-14-K-S3 x 626, OFFICE	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
3 EA	SILENCER	608	PEM

Hardware: B (STORAGE, MAINTENANCE REPAIRS)

Door #132B, 134B – Pair Doors

Each Assembly to have:

6 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-B-14-K-S3 x 626, OFFICE	BLS
1 EA	FLUSH BOLTS	FB41P-630	IVE
2 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
2 EA	FLOOR STOP	FS436, US26D	IVE
2 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	SMOKE SEAL	S88 D 20'	PEM
2 EA	SILENCER	608	PEM

Hardware: C (GARAGE)

Door #131B – Single Door

Each Assembly to have:

3 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-B-14-K-S3 x 626, OFFICE	BLS
1 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
1 EA	FLOOR STOP	FS436, US26D	IVE
1 EA	KICK PLATE	K0050 x 12" x 36", 630	TRCO
1 EA	SMOKE SEAL	S88 D 17'	PEM
3 EA	SILENCER	608	PEM
1 EA	DOOR BOTTOM - AUTO	434_RL	PEM

Hardware: D (GARAGE)

Door #131C – Pair Doors

Each Assembly to have:

6 EA	HINGE	3CB1HW, 4.5 X 4.5, 652	IVE
1 EA	LOCKSET	9K3-7-B-14-K-S3 x 626, OFFICE	BLS
1 EA	FLUSH BOLTS	FB41P-630	IVE
2 EA	CLOSER	4040XP x R w/PA x SRT, AL	LCN
2 EA	FLOOR STOP	FS436, US26D	IVE
1 EA	DOOR SEALS	S88-20', GRAY	PEM
2 EA	SILENCER	608	PEM
2 EA	DOOR BOTTOM - AUTO	434_RL	PEM

MANUFACTURER LIST

Code	Name
AB	ABH Manufacturing Inc.
BEST	Best Access Systems
DM	Dorma Door Controls
HE	HES
GLY	Glynn Johnson
IVE	Ives
LCN	LCN
NGP	National Guard Products
PEM	Pemko
PR	Precision
SCH	Schlage
ST	Stanley
TRCO	Trimco
VON	Von Duprin

FINISH LIST

Code	Description
PC	Prime Coat
626	Satin Chromium Plated
630	Satin Stainless Steel
689	Aluminum Painted
GREY	Grey
BLACK	Black
US26D	Chromium Plated, Dull
US32D	Stainless Steel, Dull

END OF SECTION

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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PLACER COUNTY OFFICES OF EDUCATION

NEW MAIN OFFICE

TENANT IMPROVEMENTS

1400 STANFORD RANCH, ROCKLIN CA 95765

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING CODES LISTED IN "APPLICABLE CODES" AND ALL GOVERNING LOCAL CODES AND REGULATIONS.
2. THE OWNER / ARCHITECT HAVE OBTAINED APPROVAL OF THE PRIMARY AUTHORITY HAVING JURISDICTION (DSA, HCAI, CITY BUILDING PERMIT). CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. UNLESS STATED OTHERWISE IN THE SPECIFICATIONS, SPECIAL INSPECTION IS REQUIRED FOR SHOP AND FIELD STRUCTURAL WELDING.
4. WHERE INCORPORATED IN THE CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF HCAI OR DSA PRE-APPROVALS FOR PRE-APPROVED ITEMS OR SYSTEMS INCORPORATED INTO THE CONSTRUCTION AND DISTRIBUTE TO OWNER'S REPRESENTATIVE, ARCHITECT AND INSPECTOR.
5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FURNISH AND AND INSTALL ALL MATERIALS AND WORK DESCRIBED, DEPICTED OR DETAILED WITHIN THESE DOCUMENTS REGARDLESS OF THE LOCATION OF THAT MATERIAL OR WORK WITHIN THE DOCUMENTS OR OMISSION (WHETHER DELIBERATE OR ACCIDENTAL) OF THAT MATERIAL OR WORK BY A SUBCONTRACTOR ON HIS/HER BID.
6. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONSIDER THESE DOCUMENTS IN THEIR ENTIRETY. DISCREPANCIES OR CONTRADICTIONS BETWEEN PORTIONS OF THESE DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST 72 HOURS PRIOR TO BID OPENING FOR CLARIFICATION. OTHERWISE, THE MOST RESTRICTIVE REQUIREMENT SHALL BE IN FORCE AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. CONTRACTOR ESTABLISH PROCEDURES TO ASSURE ALL PERSONS ENTERING A POSSIBLY HAZARDOUS AREA, INCLUDING WORKERS, SUBCONTRACTORS, OTHER CONTRACTORS, VISTORS, AND OTHERS ARE AWARE OF APPROPRIATE / REQUIRED SAFETY PROCEDURES. COMPLY WITH LOCAL, STATE, AND FEDERAL SAFETY STANDARDS, INCLUDING OSHA REQUIREMENTS AND WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY FENCING AND GATES, SIGNAGE, SECURITY LIGHTING OR OTHER SECURITY AND CONTROL MEASURES NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC AND FACILITY USERS UNTIL THE COMPLETION OF THE WORK.
9. THE CONTRACTOR IS RESPONSIBLE TO FOR PROTECTION OF ADJACENT PROPERTY AND SHALL REPAIR AND / OR REPLACE ALL PROPERTY DAMAGED DURING THE COURSE ON THE WORK.
10. THE CONTRACTOR SHALL LIMIT HIS / HER ACTIVITY TO THE AREA DESCRIBED WITHIN THE DOCUMENTS UNLESS OTHERWISE PERMITTED BY THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY ITEMS DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK. INSTALLATION SHALL MATCH EXISTING IN KIND, QUALITY, AND PERFORMANCE.
12. WHERE EXISTING CONSTRUCTION AND FINISHES ARE CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, PERFORMANCE CHARACTERISTICS, AND APPEARANCE.
13. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLR" MEAN CLEAR DIMENSION TO FACE OF FINISH. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.
14. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED ITEMS, INCLUDING FURNITURE AND EQUIPMENT, TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
15. ALL ITEMS IN THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
16. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL OCCUPIED EXISTING FACILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES. ANY SHUT DOWNS FOR NEW CONNECTIONS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE TWO WEEKS PRIOR TO THE REQUESTED SHUT DOWN.
17. COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE OWNER'S REPRESENTATIVE ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
18. COORDINATION OF SCHEDULE: PORTIONS OF THIS WORK MAY BE REQUIRED TO BE COMPLETED ON SCHEDULE IN ORDER TO AVOID DELAY TO OTHER CONTRACTORS OR OWNERS OPERATIONS. CONTRACTOR SHALL STRICTLY ADHER TO ESTABLISHED COMPLETION DATES AS DESIGNATED IN THE SPECIFICATIONS AND COORDINATE WORK SCHEDULE WITH THE OWNER'S REPRESENTATIVE AND OTHER CONTRACTORS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND LIQUIDATED DAMAGES.
19. SCHEDULE ALL WORK WITH THE OWNER'S REPRESENTATIVE, INCLUDING CONSTRUCTION ACCESS AND STORAGE, AND WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
20. CONSTRUCTION PROCEDURES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
21. DEMOLITION IS NOT NECESSARILY LIMITED TO ONLY WHAT IS SHOWN ON THIS OR OTHER DRAWINGS OR AS OUTLINED IN THE SPECIFICATIONS. THE INTENT IS TO INDICATE GENERAL SCOPE OF DEMOLITION REQUIRED. CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS DEMOLITON, CUTTING AND PATCHING REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
22. ALL ITEMS IDENTIFIED TO BE SALVAGED SHALL BE DELIVERED IN GOOD CONDITION TO A PLACE OF STORAGE AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL OTHER ITEMS MUST BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
23. ARCHITECT IS NOT RESPONSIBLE FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE, TO THE EXTENT THESE DOCUMENTS RELATE TO SUCH ISSUES. ARCHITECT'S PARTICIPATION IS SOLELY ADMINISTRATIVE WITHOUT ANY RESPONSIBILITY FOR THE CONTENT OR EXECUTION OF SUCH DOCUMENTS.
24. DETAIL DRAWINGS WITH REFERENCES TO FIRE-RATED ASSEMBLIES OR CONSTRUCTION WHICH HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, THE CALIFORNIA BUILDING CODE OR ANY OTHER APPROVED TESTING AGENCY, SHALL BE CONSTRUED TO INCLUDE ALL WORK AND PROCEDURES CONTAINED IN THE REFERENCED ASSEMBLY DESCRIPTION.
25. ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED AND SEALED TO MAINTAIN THE REQUIRED RATING.
26. CONTRACTOR TO MAINTAIN CONTEMPORANEOUSLY RECORDED "AS-BUILT" INFORMATION OF ALL WORK, WHICH SHALL BE MARKED IN COLOR ON THE DRAWINGS AND SPECIFICATIONS. A SCANNED PDF OF THE "AS-BUILT" DRAWINGS AND SPECIFICATIONS SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE PRIOR TO FINAL APPLICATION FOR PAYMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
27. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION AND DUST COVERS ADJACENT TO OCCUPIED AREAS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS, INLCUDING SIDEWALKS AND DRIVEWAYS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
28. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND TO OCCUPANTS OF EXISTING BUILDING.
29. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES AND REGULATIONS:

2022 CALIFORNIA BUILDING ADMINISTRATIVE CODE,
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH 2021 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) WITH 2020 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH 2021 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH 2021 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY EFFICIENCY STANDARDS (ENERGY CODE), PART 6, TITLE 24 CCR

2022 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(ASME A17.1-2019)

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 CCR
(2021 IEB CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING CODE (CALGreen), PART 11, TITLE 24, CCR

2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS	2022 EDITION
NFPA 14	INSTALLATION OF STANDPIPE SYSTEMS	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYS.	2021 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL SYS.	2021 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS	2019 EDITION
NFPA 24	INSTALLATION OF PRIVATE FIRE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2022 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2018 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEM	2018 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CBC CHAPTER 35 AND 2022 CFC CHAPTER 45

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

DEFERRED APPROVALS

1. FIRE SPRINKLER MODIFICATIONS.
2. FIRE ALARM MODIFICATIONS.

VICINITY MAP

NO SCALE

OWNER

PLACER COUNTY OFFICES OF EDUCATION
360 NEVADA ST. TEL. (530) 889-8020
AUBURN, CA. 95603
CONTACT: MARTIN FREGOSO

CONSULTANTS

ARCHITECT
HIBSER YAMAUCHI ARCHITECTS, INC. TEL. (510) 446-2222
4602 2ND STREET, FAX (510) 446-2211
DAVIS, CA 95618
CONTACT: HOWARD CHO

STRUCTURAL
BEVIER STRUCTURAL ENGINEERING TEL. (916) 631-3030
2479 SUNRISE BLVD,
GOLD RIVER, CA 95670
CONTACT: BILL BEVIER

MECHANICAL / PLUMBING
TURLEY & ASSOCIATES TEL. (916) 325-1065
2431 CAPITOL AVE
SACRAMENTO, CA 95816
CONTACT: NIRAV SHAH

ELECTRICAL / COMMUNICATIONS
M.NEILS ENGINEERING INC. TEL. (916) 923-4400
100 HOWE AVE #235N
SACRAMENTO, CA 95825
CONTACT: STUART LINDSAY

CIVIL
WARREN CONSULTING ENGINEERS, INC. TEL. (916) 985-1870
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762
CONTACT: ANTHONY TASSANO

LANDSCAPE ARCHITECT
WARREN CONSULTING ENGINEERS, INC. TEL. (916) 369-3990
2707 K STREET, SUITE 201
SACRAMENTO, CA 95816
CONTACT: PETER LARIMER

CODE SUMMARY

SITE

ZONING: B - P/C

PARCEL NO.: APN 017-081-025-00

BUILDING

BUILDING AREA:
FIRST FLOOR 34,515 SF
SECOND FLOOR 34,515 SF
TOTAL 69,030 SF

BUILDING OCCUPANCY: B

CONSTRUCTION CLASSIFICATION: IIIB

FIRE PROTECTION SYSTEM: FIRE SPRINKLERS

NUMBER OF STORIES: 2

SCOPE OF WORK

1. RECONFIGURATION OF EXISTING FIRST-FLOOR OPEN AND CLOSED OFFICES, INCLUDING ANCILLARY ROOMS, TO ESTABLISH A LARGE AND FLEXIBLE BOARDROOM FOR PUBLIC MEETINGS/GATHERINGS WITH AUDIO/VISUAL, FLOOR POWER RECEPTACLES, LIGHTING, HVAC, AND OPERABLE PARTITIONS UPGRADES.
2. A NEW RECEPTIONIST STATION ON THE FIRST FLOOR IN THE MAIN LOBBY
3. RECONFIGURATION OF EXISTING 2ND FLOOR OPEN AND CLOSED OFFICES TO ESTABLISH A NEW SUPERINTENTNCTS OFFICES SUITE
4. NEW WINDOW LITES AR SELECT OFFICES THROUGHOUT THE FIRST AND SECOND FLOORS (EXCLUDE LEASED AREAS)
5. RECONFIGURATION OF EXISTING FIRST-FLOOR CONFERENCE AND STORAGE TO BECOME SECURED IT STORAGE.
6. REPLACE/RE-FINISH EXISTING FLOORING, WALL PAINT, MISC. CASEWORK, AND SIGNAGE THROUGHOUT THE FIRST AND SECOND FLOORS. (EXCLUDE LEASED AREAS)

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PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET
CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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HY Architects Project number: 6013

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Project
TENANT IMPROVEMENTS

Sheet Title
TITLE SHEET

Client Project Number: N/A

Scale:
Drawn By: SH/LDM
Checked By: HC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet
A0.01
Sheet 1 of 200

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

CODE COMPLIANCE LEGEND

CODE COMPLIANCE ROOM TAG

EXAM ROOM
210 | 2
100 | 2
B | 1
150

- ROOM NAME
- ROOM NUMBER
- NUMBER OF OCCUPANTS
- NUMBER OF EXITS REQUIRED
- ROOM AREA SQ. FT.
- OCCUPANCY GROUP
- LOAD FACTOR

EXIT AND EXIT ACCESS

- CPET (COMMON PATH OF EGRESS TRAVEL).
- EATD (EXIT ACCESS TRAVEL DISTANCE).
- MAX DIAGONAL DIMENSION OF AREA
- EXIT FROM ACCESSIBLE PATH OF TRAVEL
- DEFEND-IN-PLACE REFUGE AREA

EXIT WIDTHS

- EGRESS WIDTH PER OCCUPANT

100 x 0.15 = 15"
REQUIRED CAPACITY: 15"
REQUIRED WIDTH: 32"
EXIT WIDTH PROVIDED: 36"

- SUM OF OCCUPANTS AT THIS LOCATION ALONG MEANS OF EGRESS
- PANIC EXIT DEVICE REQUIRED

(#) PATH OF EGRESS W/ # OF OCCUPANTS

FEC — RECESSED FIRE EXTINGUISHER CABINET

1 HOUR FIRE RATED WALL

EXIT TRAVEL DISTANCE

*CPET = COMMON PATH OF EGRESS TRAVEL
EATD = EXIT ACCESS TRAVEL DISTANCE

FROM BOARDROOM A
CPET1: 35' - 1" (< 100' - 0"); OK
TO EATD1: 0 (< 300' - 0"); OK

FROM BOARDROOM B
CPET2: 35' - 1" (< 100' - 0"); OK
TO EATD2: 0 (< 300' - 0"); OK

FROM PD BREAKOUT \ ROOM SMALL CLASSROOM
CPET3: 43' - 10" < 100'-0"; OK
TO EATD2: 27' - 11" (< 300' - 0"); OK
TO EATD3: 40' - 6" (< 300' - 0"); OK

FROM BREAKROOM
CPET3: 62' - 1" < 100'-0"; OK
TO EATD4: 5' - 8" (< 300' - 0"); OK
TO EATD3: 22' - 4" (< 300' - 0"); OK
56516516

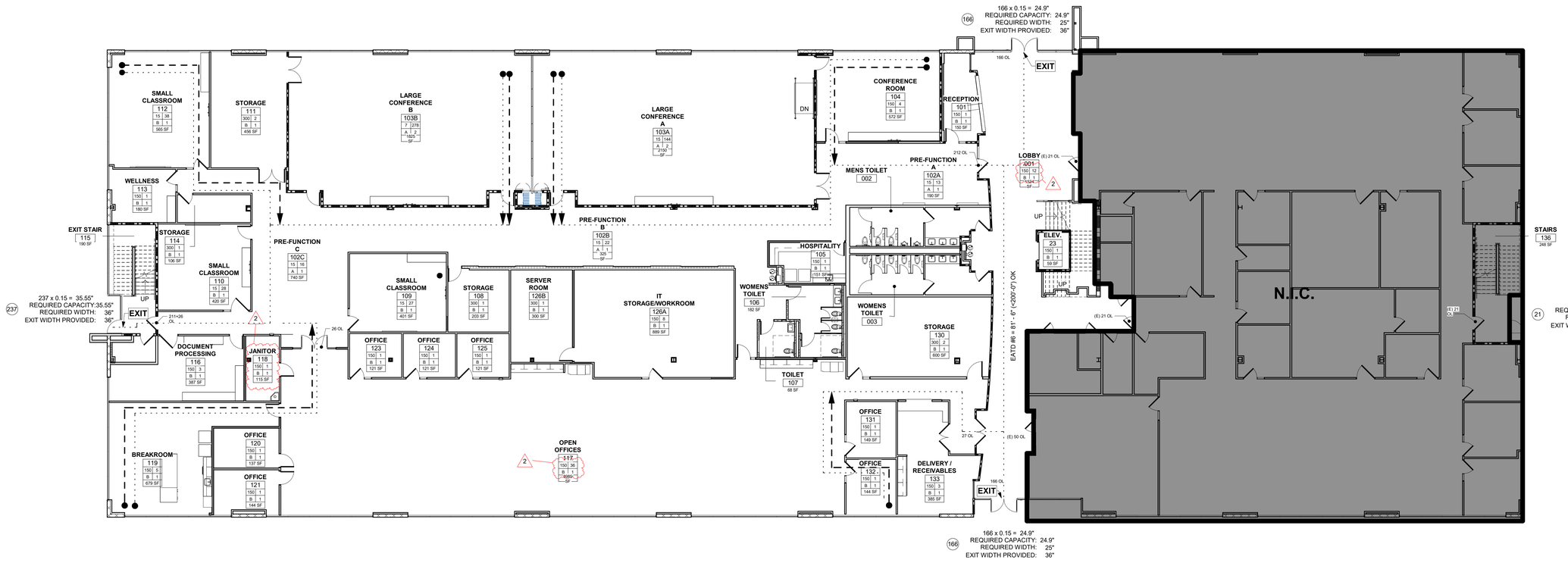
PARTITION LEGEND

EXISTING WALL & PARTITION TYPES:

- (E) 1 HR. RATED FIRE PARTITION
- (E) NON- RATED FIRE- RESISTIVE PARTITION
- (E) PARTITION TO BE DEMOLISHED.

NEW WALL & PARTITION TYPES:

- (N) NON- RATED FIRE- RESISTIVE PARTITION



1 EGRESS PLAN - FIRST FLOOR
3/32" = 1'-0"

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PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

KEY PLAN

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Project
TENANT IMPROVEMENTS

Sheet Title
EGRESS PLAN - FIRST FLOOR

Client Project Number: N/A

Scale:	As indicated	Sheet	A1.02
Drawn By:	LDM/SH		
Checked By:	HC		
Issue Date:	July 21, 2023		
Revit Version:	2023	Sheet	of

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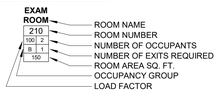
CODE COMPLIANCE LEGEND

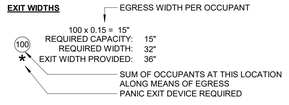
CODE COMPLIANCE ROOM TAG



EXIT AND EXIT ACCESS

- CPET (COMMON PATH OF EGRESS TRAVEL).
- EATD (EXIT ACCESS TRAVEL DISTANCE).
- MAX DIAGONAL DIMENSION OF AREA
- EXIT FROM ACCESSIBLE PATH OF TRAVEL
- DEFEND-IN-PLACE REFUGE AREA

EXIT WIDTHS



PATH OF EGRESS W/ # OF OCCUPANTS

FEC

RECESSED FIRE EXTINGUISHER CABINET

1 HOUR FIRE RATED WALL

EXIT TRAVEL DISTANCE

*CPET = COMMON PATH OF EGRESS TRAVEL
EATD = EXIT ACCESS TRAVEL DISTANCE

FROM SUPERINTENDENT
CPET1: 59' 10" (< 100' - 0"); OK
TO EATD1: 0 (< 300' - 0"); OK

FROM OFFICE # (near breakroom)
CPET2: 0 (< 100' - 0"); OK
TO EATD2: 0 (< 300' - 0"); OK

PARTITION LEGEND

EXISTING WALL & PARTITION TYPES:

- (E) 1 HR. RATED FIRE PARTITION
- (E) NON- RATED FIRE- RESISTIVE PARTITION
- (E) PARTITION TO BE DEMOLISHED.

NEW WALL & PARTITION TYPES:

- (N) NON- RATED FIRE- RESISTIVE PARTITION

1 EGRESS PLAN - SECOND FLOOR

3/32" = 1'-0"

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Revisions			
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

KEY PLAN

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HY Architects Project number: 6013

Facility
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Project
TENANT IMPROVEMENTS

Sheet Title
EGRESS PLAN - SECOND FLOOR

Client Project Number: N/A

Scale:	As indicated
Drawn By:	LDM/SH
Checked By:	HC
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **A1.03**

Sheet of

0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

DEMO NOTES

D2.02	GYP BD WALL FINISH LEVEL TO MATCH (E)
D2.04	DEMO (E) HORIZONTAL MINI BLINDS
D2.09	DEMO (E) WALL FIN TO (E) STUD AND EXTEND (E) FRAMING TO UNDERSIDE OF (E) FLOOR/ROOF ABOVE AS NEEDED FOR (N) FIRE RATED WALL
D2.10	DEMO (E) WALK-OFF CARPET AND PREP FLOORING FOR (N) PER MFR RECOMMENDATIONS.
D2.11	DEMO (E) TILE AND PREP FLOORING FOR (N) PER MFR. RECOMMENDATIONS.
D2.12	DEMO (E) CARPET AND PREP FLOORING FOR (E) PER MFR RECOMMENDATIONS.
D2.13	DEMO (E) RUBBER FLOORING AND PREP FLOORING FOR NEW PER MFR RECOMMENDATIONS.
D2.14	DEMO (E) RESILIENT WOOD PLANK FLOORING AND PREP FLOORING FOR (N) PER MFR RECOMMENDATIONS.
D2.15	DEMO (E) VCT FLOORING AND PREP FLOORING FOR (N) PER MFR RECOMMENDATIONS.
D2.16	DEMO (E) WAINSCOT AND PREP WALL FOR (N) TILE WAINSCOT
D2.17	PROTECT AND REINSTALL (E) BASE AT LOBBY
D2.18	DEMO (E) TOILET PARTITIONS, TYPICAL. REMOVE AND PROTECT (E) TOILET ACCESSORIES FOR RE-USE.
D2.19	DEMO (E) FLOOR AND WALL MOUNTED TOILET PARTITIONS
D2.20	DEMO (E) MIRROR AND PATCH WALL. WALL FINISH LEVEL TO MATCH (E)
D2.21	(E) CASEWORK TO REMAIN; REMOVE (E) LAMINATE FROM COUNTER TOP AND FRONT BODY OF CABINET. PREP FOR (N) LAMINATE. SEE INTERIOR ELEVATIONS.
D2.22	DEMO (E) COUNTERTOP AND MOUNTING HARDWARE. PATCH AND REPAIR WALL FINISH LEVEL TO MATCH (E).
D2.23	DEMO (E) HORIZONTAL SURFACE AND PREP FOR (N). SEE INTERIOR ELEVATIONS
D2.25	DEMO (E) BUILT-IN CABINETS
D2.26	DEMO (E) WALL TILE FINISH FULL HEIGHT OF ELEVATOR CORE. PATCH AND REPAIR WALL FINISH TO ACHIEVE (E) FIRE RATING. WALL FINISH LEVEL AND BASE TO MATCH (E) LOBBY ADJACENT.
D2.36	(E) MOP SINK TO REMAIN

DEMO NOTES

D2.37	DEMO (E) DRINKING FOUNTAIN, SPD
D2.39	REMOVE (E) FAUCET, SOAP DISPENSER, & UNDERMOUNT SINK FOR INSTALLATION OF (N) COUNTERTOP AND PROTECT FOR REINSTALL
D2.40	DEMO (E) SHOWER ENCLOSURE, SPD
D2.50	DEMO PORTION OF (E) WALL
D2.54	DEMO (E) CARPET FLOORING AT STAIRS AND LANDING. PROVIDE NEW RUBBER STAIR TREAD AND NOSING.
D2.55	DEMO PLASTER SYSTEM AND SUBSTRATE AND PREP FOR (N) METAL CLADDING SYSTEM

DEMOLITION PLAN LEGEND

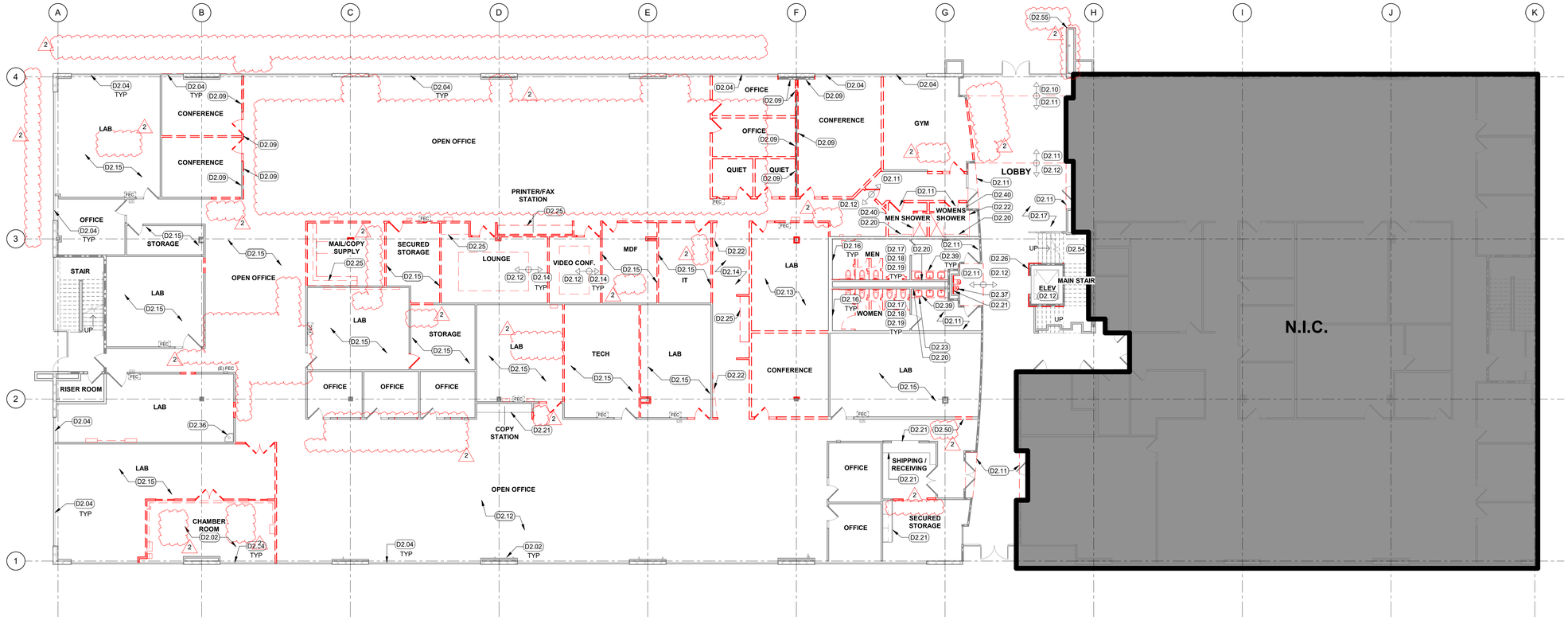
NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

- (E) EXTERIOR MASONRY WALL (BRICK VENEER O/ CMU).
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISTIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.
- (E) PARTITION TO BE DEMOLISHED.
- (E) DOOR AND SIDELITE TO REMAIN. DEMO MINI BLINDS AT SITELITE WO.
- REMOVE (E) DOOR & FRAME, TYP
- REMOVE (E) DOOR, FRAME, AND SIDELITE, TYP
- REMOVE (E) CARD READERS AND SAVE FOR REUSE, TYP.
- REMOVE (E) FIRE EXTINGUISHER AND SAVE FOR REUSE, TYP.
- (E) FIRE EXTINGUISHER TO REMAIN

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD. UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.
4. REMOVE PORTIONS OF (E) CONCRETE SLAB AS NEEDED TO INSTALL NEW ELECTRICAL AND PLUMBING. REFER TO E & P SERIES SHEETS FOR ADDITIONAL INFORMATION.



1 FIRST FLOOR OVERALL DEMOLITION PLAN

3/32" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

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KEY PLAN

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HY Architects Project number: 6013

Facility

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Project

TENANT IMPROVEMENTS

Sheet Title

DEMOLITION PLAN - FIRST FLOOR

Client Project Number: N/A

Scale: As indicated
Drawn By: SH/LDM
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Sheet **A2.01**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

DEMO NOTES

D2.01	INFILL FLOOR CORE, REMOVE DATA LINES WHERE OCCURS
D2.02	GYP BD WALL FINISH LEVEL TO MATCH (E)
D2.04	DEMO (E) HORIZONTAL MINI BLINDS
D2.11	DEMO (E) TILE AND PREP FLOORING FOR (N) PER MFR. RECOMMENDATIONS.
D2.12	DEMO (E) CARPET AND PREP FLOORING FOR (E) PER MFR RECOMMENDATIONS.
D2.14	DEMO (E) RESILIENT WOOD PLANK FLOORING AND PREP FLOORING FOR (N) PER MFR RECOMMENDATIONS.
D2.15	DEMO (E) VCT FLOORING AND PREP FLOORING FOR (N) PER MFR RECOMMENDATIONS.
D2.16	DEMO (E) WAINSCOT AND PREP WALL FOR (N) TILE WAINSCOT
D2.17	PROTECT AND REINSTALL (E) BASE AT LOBBY
D2.18	DEMO (E) TOILET PARTITIONS, TYPICAL. REMOVE AND PROTECT (E) TOILET ACCESSORIES FOR RE-USE.
D2.19	DEMO (E) FLOOR AND WALL MOUNTED TOILET PARTITIONS
D2.20	DEMO (E) MIRROR AND PATCH WALL. WALL FINISH LEVEL TO MATCH (E)
D2.21	(E) CASEWORK TO REMAIN. REMOVE (E) LAMINATE FROM COUNTER TOP AND FROM BODY OF CABINET. PREP FOR (N) LAMINATE. SEE INTERIOR ELEVATIONS.
D2.23	DEMO (E) HORIZONTAL SURFACE AND PREP FOR (N). SEE INTERIOR ELEVATIONS
D2.24	(E) BUILT-IN CABINETS TO REMAIN. PROTECT DURING CONSTRUCTION.
D2.25	DEMO (E) BUILT-IN CABINETS
D2.26	DEMO (E) WALL TILE FINISH FULL HEIGHT OF ELEVATOR CORE. PATCH AND REPAIR WALL FINISH TO ACHIEVE (E) FIRE RATING. WALL FINISH LEVEL AND BASE TO MATCH (E) LOBBY ADJACENT.

DEMO NOTES

D2.38	REMOVE (E) PLUMBING FIXTURE FOR INSTALLATION OF (N) FINISHES AND PROTECT FOR REINSTALL
D2.39	REMOVE (E) FAUCET, SOAP DISPENSER, & UNDERMOUNT SINK FOR INSTALLATION OF (N) COUNTERTOP AND PROTECT FOR REINSTALL
D2.43	DEMO (E) OPERABLE PANEL AND COUNTER AT SERVING OPENING
D2.44	DEMO (E) OPERABLE PARTITION AND TRACK
D2.48	REMOVE ALUM CAST 'ORACLE' LETTERING AND PREP SUBSTRATE FEATURE TO RECEIVE (N) PLAM AND 'PCOE' LETTERING.
D2.49	DEMO (E) WOOD CHAIR RAIL
D2.54	DEMO (E) CARPET FLOORING AT STAIRS AND LANDING. PROVIDE NEW RUBBER STAIR TREAD AND NOSING.
D2.55	DEMO PLASTER SYSTEM AND SUBSTRATE AND PREP FOR (N) METAL CLADDING SYSTEM

DEMOLITION PLAN LEGEND

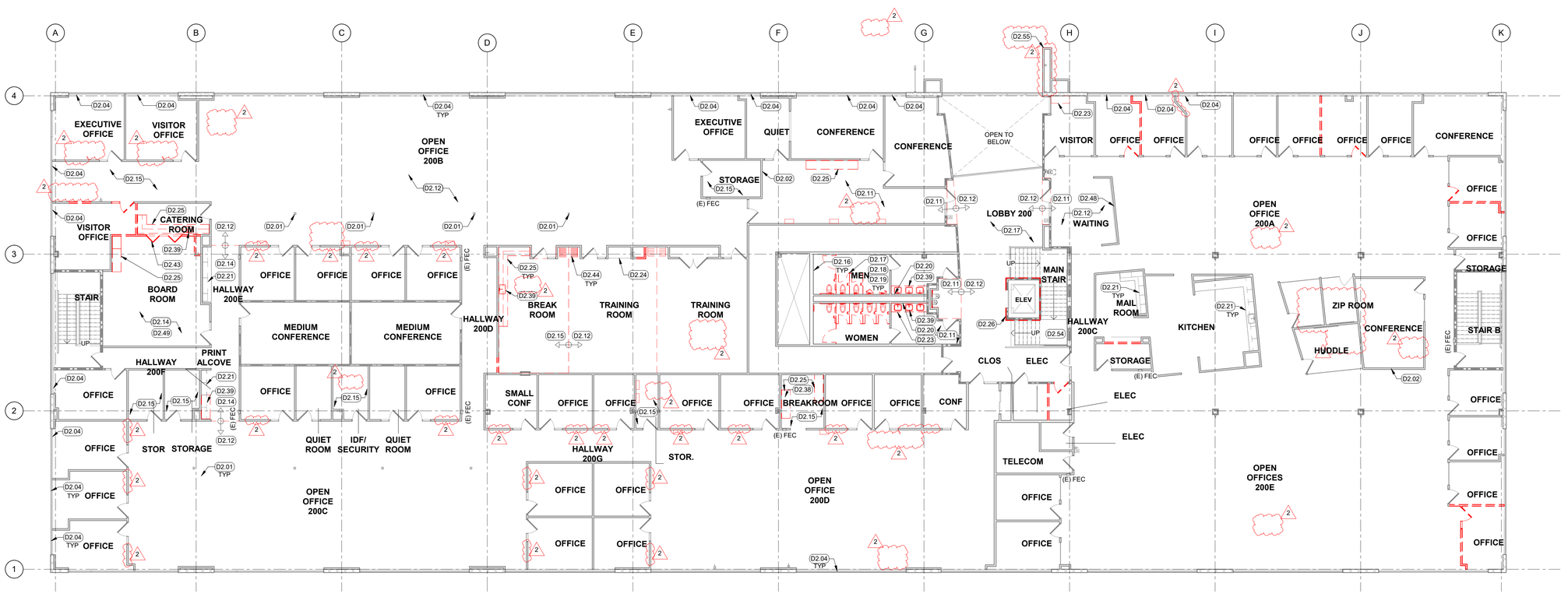
NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

- (E) EXTERIOR MASONRY WALL (BRICK VENEER O/ CMU).
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISTIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.
- (E) PARTITION TO BE DEMOLISHED.
- (E) DOOR AND SIDELITE TO REMAIN. DEMO MINI BLINDS AT SITELITE WO.
- REMOVE (E) DOOR & FRAME, TYP
- REMOVE (E) DOOR, FRAME, AND SIDELITE, TYP
- CR — REMOVE (E) CARD READERS AND SAVE FOR REUSE, TYP.
- FEC — REMOVE (E) FIRE EXTINGUISHER AND SAVE FOR REUSE, TYP.
- (E)FEC — (E) FIRE EXTINGUISHER TO REMAIN

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD. UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.
4. REMOVE PORTIONS OF (E) CONCRETE SLAB AS NEEDED TO INSTALL NEW ELECTRICAL AND PLUMBING. REFER TO E & P SERIES SHEETS FOR ADDITIONAL INFORMATION.



1 DEMO PLAN - SECOND FLOOR

3/32" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

KEY PLAN

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HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
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Project

TENANT IMPROVEMENTS

Sheet Title

DEMOLITION PLAN - SECOND FLOOR

Client Project Number: N/A

Scale:	As indicated
Drawn By:	SH/LDM
Checked By:	HC
Issue Date:	July 21, 2023
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Sheet **A2.02**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

FLOOR PLAN SYMBOL LEGEND

- NO WORK (E) DOOR TO REMAIN
- (E) DOOR TO REMAIN, TYP
- DOOR, TYP. SEE DOOR SCHEDULE

PARTITION LEGEND

NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

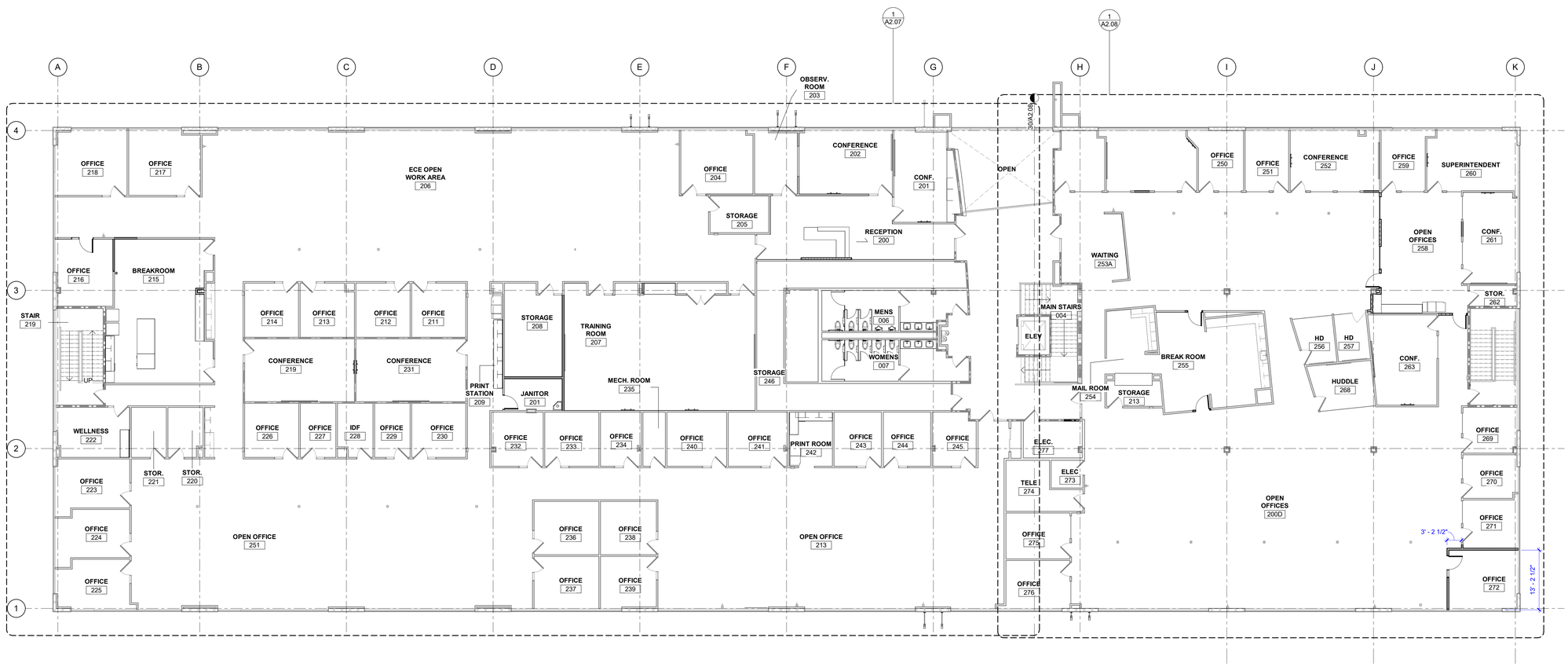
- (E) CONCRETE TILT-UP WALL TO REMAIN
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) 1 HR. RATED FIRE WALL W/ 45 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISTIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.

NEW WALL & PARTITION TYPES:

- A — NON-FIRE RATED FULL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 2 / A9.01
- B — NON-FIRE RATED PARTIAL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 7 / A9.01
- C — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 12 / A9.01
- D — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 17 / A9.01
- E — NON-FIRE RATED PARTIAL HEIGHT PARTITION TO CEILING W/ UNPROTECTED OPENINGS, TYP UON, SEE 14 / A9.01
- F — NON-FIRE RATED FURRED WALL W/ UNPROTECTED OPENINGS, TYP UON, SEE 22 / A9.01
- X — 1 HR RATED WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 4 / A9.01
- Y — 1 HR RATED CAVITY WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 9 / A9.01

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD, UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.
4. REMOVE PORTIONS OF (E) CONCRETE SLAB AS NEEDED TO INSTALL NEW ELECTRICAL AND PLUMBING. REFER TO E & P SERIES SHEETS FOR ADDITIONAL INFORMATION.



1 REMODEL FLOOR PLAN - SECOND FLOOR
3/32" = 1'-0"

PCOE GOLD IN EDUCATION

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HY Architects Project number: 6013

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Project
TENANT IMPROVEMENTS

Sheet Title
REMODEL FLOOR PLAN - SECOND FLOOR

Client Project Number: N/A

Scale: As indicated
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Sheet
A2.04
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

KEYNOTES

05.01	EXTERIOR METAL CLADDING SYSTEM, SEE SHEET A8.01
05.03	METAL HANDRAIL AT 36" HIGH
06.03	BASE CABINET W/ SOLID SURFACE COUNTER
06.04	FULL HEIGHT OPERABLE WALL PANEL SYSTEM, SEE DETAILS 18, 19, 20 & 23/A2.02
09.06	MODULAR DECORATIVE WOOD PANEL FINISH SYSTEM O/ FURRED WALL. REFER TO DETAIL 27/A4.06 AND INTERIORS FINISH SCHEDULE FOR ADDITIONAL INFO
09.07	ONE-WAY PRIVACY WINDOW. REFER TO INTERIOR ELEAVTIONS
10.26	DAIS, OFCI
11.01	REFRIGERATOR, OFOI. PROVIDE POWER AND PLUMBING, SED & SPD
11.02	WALL-MOUNT TV BRACKET, OFCI. REFER TO DETAIL 20/A9.02 FOR BACKING AND COORDINATE HEIGHT PER INTERIOR ELEVATIONS. ALSO SSD & SED
11.04	COPIER, OFOI. PROVIDE POWER, SED.
11.05	STACKED MICROWAVES, OFOI. PROVIDE POWER, SED.
11.06	COFFEE MACHINE, OFOI. PROVIDE POWER, SED.
11.08	DIGITAL DIRECTORY VISUAL DISPLAY, OFCI. REFER TO DETAIL 20/A9.02 FOR BACKING AND COORDINATE HEIGHT PER INTERIOR ELEVATIONS. ALSO SSD & SED
12.01	WHITE BOARD, OFOI, PROVIDE BACKING, SEE DETAIL 1/A9.02
12.03	DECORATIVE MOSS WALL FINISH SYSTEM IN WALL NICHE. REFER TO INTERIOR ELEVATIONS AND SEE FINISH SCHEDULE
22.03	HI-LO BOTTLE FILLER/DRINKING FOUNTAIN, SED & SPD
22.06	ACCESSIBLE SINK W/ GARBAGE DISPOSAL. PROVIDE POWER AND PLUMBING, SED & SPD.
22.08	DISHWASHER, OFOI. PROVIDE POWER, SED
26.13	ELECTRICAL POWER FLOOR RECEPTACLE, SED

FLOOR PLAN SYMBOL LEGEND

- NO WORK (E) DOOR TO REMAIN
- (E) DOOR TO REMAIN, TYP
- DOOR, TYP. SEE DOOR SCHEDULE

PARTITION LEGEND

NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

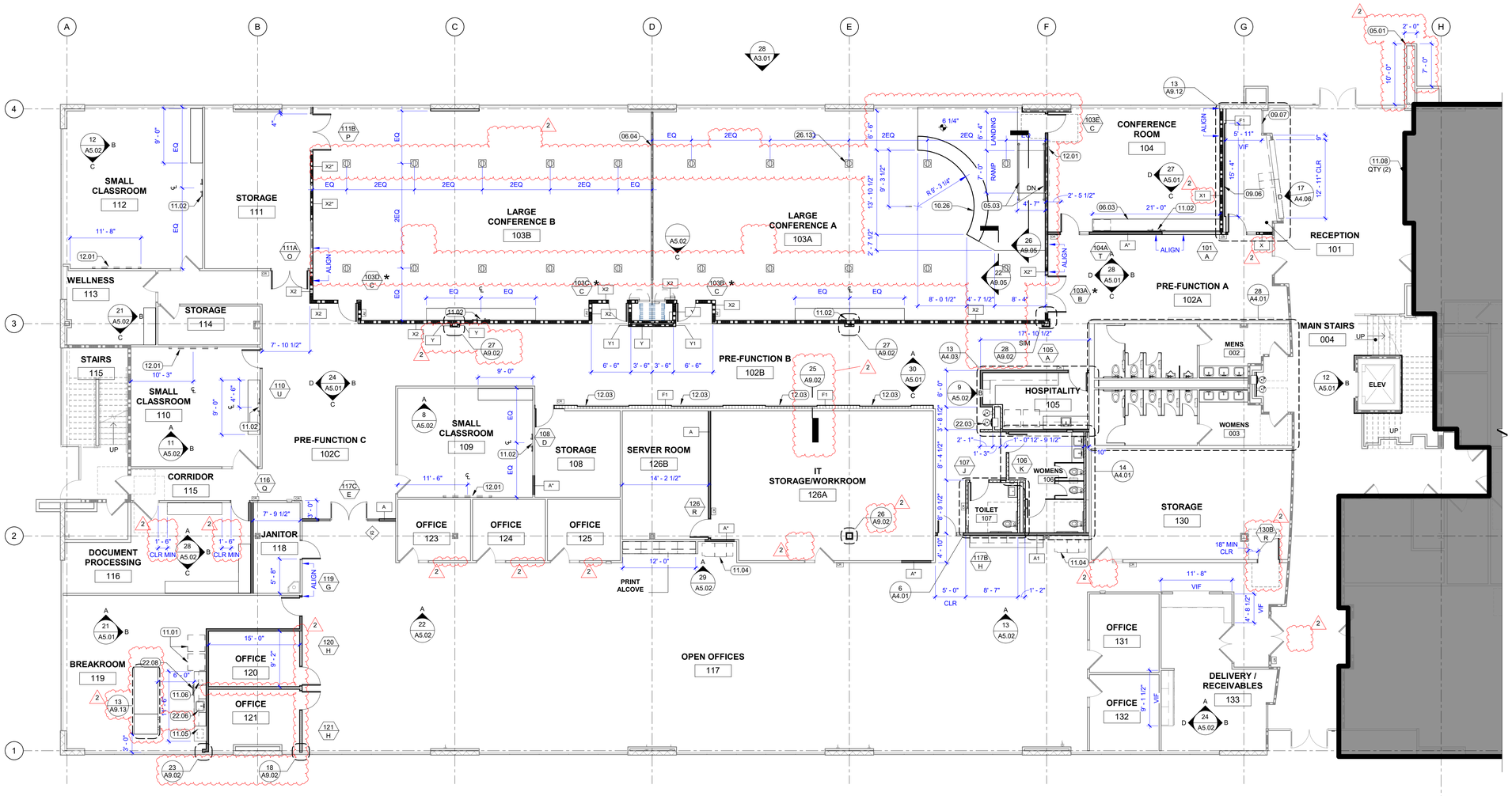
- (E) CONCRETE TILT-UP WALL TO REMAIN
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) 1 HR. RATED FIRE WALL W/ 45 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISITIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.

NEW WALL & PARTITION TYPES:

- A — NON-FIRE RATED FULL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 2/A9.01
- B — NON-FIRE RATED PARTIAL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 7/A9.01
- C — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 12/A9.01
- D — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 17/A9.01
- E — NON-FIRE RATED PARTIAL HEIGHT PARTITION TO CEILING W/ UNPROTECTED OPENINGS, TYP UON, SEE 14/A9.01
- F — NON-FIRE RATED FURRED WALL W/ UNPROTECTED OPENINGS, TYP UON, SEE 22/A9.01
- X — 1 HR RATED WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 4/A9.01
- Y — 1 HR RATED CAVITY WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 9/A9.01

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD, UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.
4. COORDINATE INSTALLATION OF (N) WORK WITH TYPICAL ACCESSIBILITY DETAILS ON SHEET A9.03.
5. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION INCLUDING TYPICAL CASEWORK DIMENSIONS WHERE OCCURS, UON.
6. REFER TO SHEET A9.10 FOR TYPICAL CASEWORK DETAILS, UON.
7. PATCH AND REPAIR CONCRETE SLAB WHERE CUT TO ACCOMMODATE (N) WORK PER SLAB INFILL DETAILS 4& 5/A9.05.



1 FIRST FLOOR PARTIAL REMODEL PLAN - WEST
1/8" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

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HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
PARTIAL REMODEL PLAN - FIRST FLOOR

Client Project Number: N/A

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Drawn By:	SH/LDM
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Sheet **A2.06**

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8/31/2023 6:09:37 PM

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

KEYNOTES

06.03	BASE CABINET W/ SOLID SURFACE COUNTER
06.04	FULL HEIGHT OPERABLE WALL PANEL SYSTEM, SEE DETAILS 18, 19, 20 & 23/A2.02
11.01	REFRIGERATOR, OFOI. PROVIDE POWER AND PLUMBING, SED & SPD
11.02	WALL-MOUNT TV BRACKET, OFCI. REFER TO DETAIL 20/A9.02 FOR BACKING AND COORDINATE HEIGHT PER INTERIOR ELEVATIONS. ALSO SSD & SED
11.04	COPIER, OFOI. PROVIDE POWER, SED.
11.05	STACKED MICROWAVES, OFOI. PROVIDE POWER, SED.
11.06	COFFEE MACHINE, OFOI. PROVIDE POWER, SED.
12.01	WHITE BOARD, OFOI, PROVIDE BACKING, SEE DETAIL 1/A9.02
12.02	TACK BOARD, OFOI, PROVIDE BACKING, SEE DETAILS
22.04	SINK FIXTURE WITH HARDWIRED MOTION SENSOR, SPD
22.06	ACCESSIBLE SINK W/ GARBAGE DISPOSAL. PROVIDE POWER AND PLUMBING, SED & SPD.
22.07	CHILLED FILTER WATER BOTTLE FILLER, OFOI. SPD

FLOOR PLAN SYMBOL LEGEND

- NO WORK (E) DOOR TO REMAIN
- (E) DOOR TO REMAIN, TYP
- DOOR, TYP. SEE DOOR SCHEDULE

PARTITION LEGEND

NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

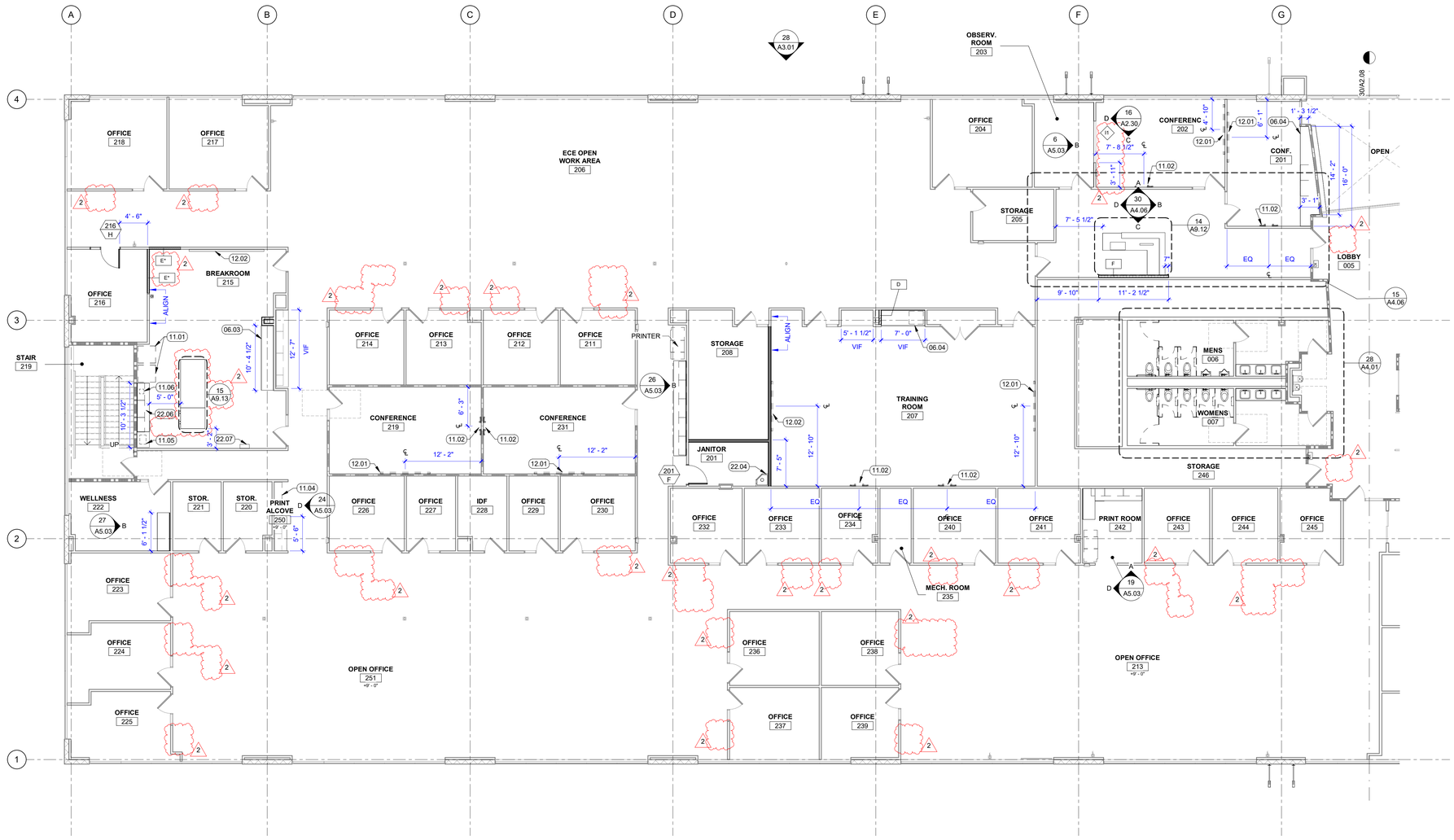
- (E) CONCRETE TILT-UP WALL TO REMAIN
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) 1 HR. RATED FIRE WALL W/ 45 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISTIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.

NEW WALL & PARTITION TYPES:

- A — NON-FIRE RATED FULL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 2/A9.01
- B — NON-FIRE RATED PARTIAL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 7/A9.01
- C — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 12/A9.01
- D — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 17/A9.01
- E — NON-FIRE RATED PARTIAL HEIGHT PARTITION TO CEILING W/ UNPROTECTED OPENINGS, TYP UON, SEE 14/A9.01
- F — NON-FIRE RATED FURRED WALL W/ UNPROTECTED OPENINGS, TYP UON, SEE 22/A9.01
- X — 1 HR RATED WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 4/A9.01
- Y — 1 HR RATED CAVITY WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 9/A9.01

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD, UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.
4. REMOVE PORTIONS OF (E) CONCRETE SLAB AS NEEDED TO INSTALL NEW ELECTRICAL AND PLUMBING. REFER TO E & P SERIES SHEETS FOR ADDITIONAL INFORMATION.



1 SECOND FLOOR PARTIAL REMODEL PLAN - WEST
1/8" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

KEY PLAN

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HIBSER YAMAUCHI Architects, Inc.
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HY Architects Project number: 6013

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Project

TENANT IMPROVEMENTS

Sheet Title

PARTIAL REMODEL PLAN - SECOND FLOOR - WEST

Client Project Number: N/A

Scale:	As indicated
Drawn By:	SH/LDM
Checked By:	HC
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **A2.07**

Sheet of

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KEYNOTES

05.01	EXTERIOR METAL CLADDING SYSTEM, SEE SHEET A8.01
06.03	BASE CABINET W/ SOLID SURFACE COUNTER
11.02	WALL-MOUNT TV BRACKET, OFCI. REFER TO DETAIL 20/A9.02 FOR BACKING AND COORDINATE HEIGHT PER INTERIOR ELEVATIONS. ALSO SSD & SED
11.04	COPIER, OFCI. PROVIDE POWER, SED.
12.01	WHITE BOARD, OFCI, PROVIDE BACKING, SEE DETAIL 1/A9.02
26.12	TELECONFERENCING SPEAKERS AND MICROPHONE, PROVIDE DATA & POWER, SED.

FLOOR PLAN SYMBOL LEGEND

NO WORK (E) DOOR TO REMAIN

(E) DOOR TO REMAIN, TYP

DOOR, TYP. SEE DOOR SCHEDULE

PARTITION LEGEND

NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

(E) CONCRETE TILT-UP WALL TO REMAIN

(E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.

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NEW WALL & PARTITION TYPES:

A — NON-FIRE RATED FULL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 2 / A9.01

B — NON-FIRE RATED PARTIAL HEIGHT PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 7 / A9.01

C — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 12 / A9.01

D — NON-FIRE RATED FULL HEIGHT CAVITY PARTITION W/ UNPROTECTED OPENINGS, TYP UON, SEE 17 / A9.01

E — NON-FIRE RATED PARTIAL HEIGHT PARTITION TO CEILING W/ UNPROTECTED OPENINGS, TYP UON, SEE 14 / A9.01

F — NON-FIRE RATED FURRED WALL W/ UNPROTECTED OPENINGS, TYP UON, SEE 22 / A9.01

X — 1 HR RATED WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 4 / A9.01

Y — 1 HR RATED CAVITY WALL W/ 45 MIN PROTECTED OPENINGS, TYP UON, SEE 9 / A9.01

GENERAL NOTES

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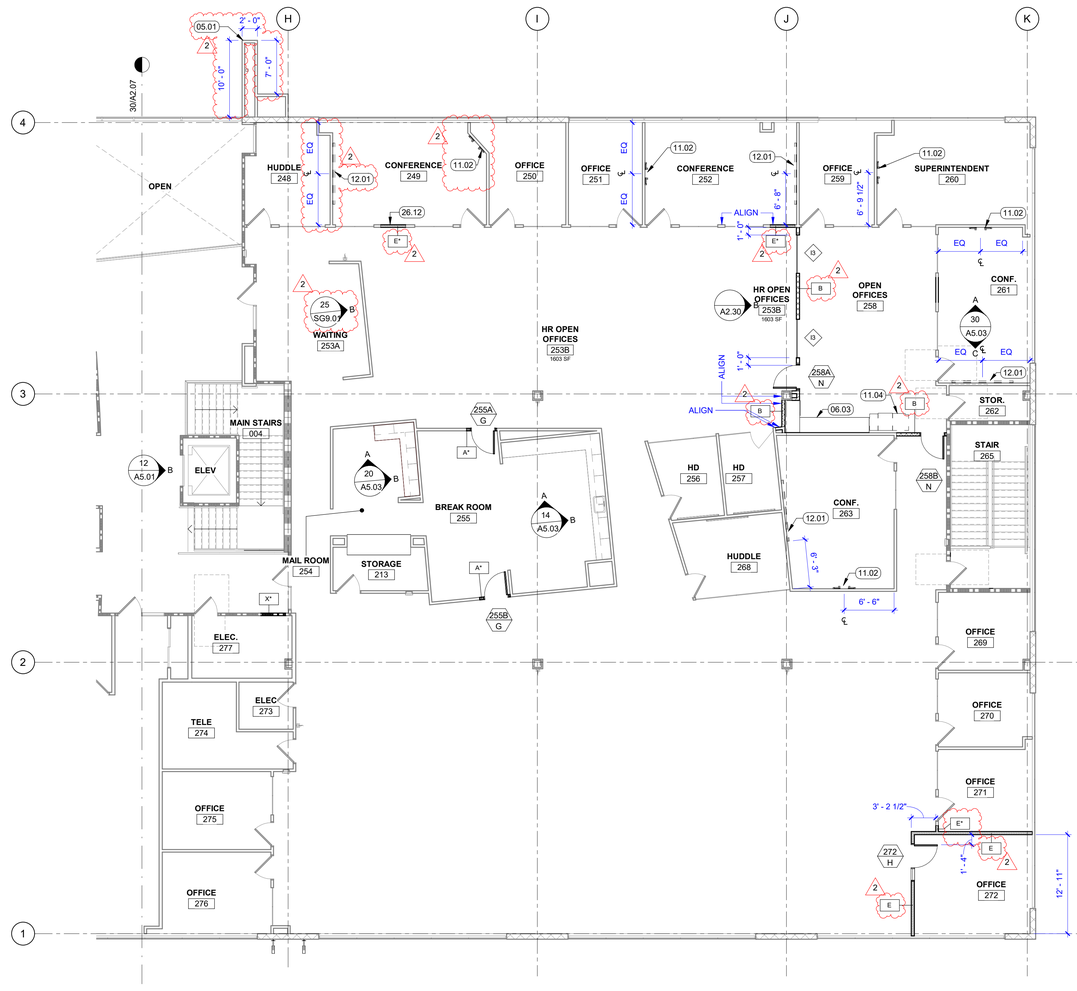

1 SECOND FLOOR PARTIAL REMODEL PLAN - EAST
1/8" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET
CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

KEY PLAN

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HY Architects Project number: 6013

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NEW MAIN OFFICE
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Project
TENANT IMPROVEMENTS

Sheet Title
PARTIAL REMODEL PLAN - SECOND FLOOR - EAST

Client Project Number: N/A

Scale: As indicated
Drawn By: SH/LDM
Checked By: HC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet
A2.08
Sheet of

8/31/2023 6:09:44 PM C:\Users\CNguyen\Documents\6013 PCOE 1400 Stanford Ranch_Central_23 recover_cnguyenQLSR4.rvt

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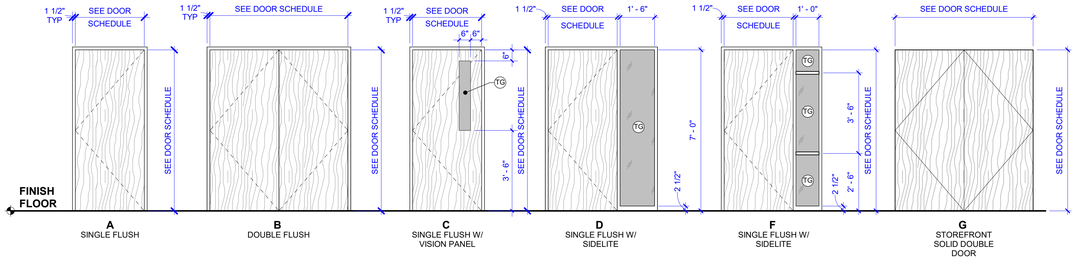
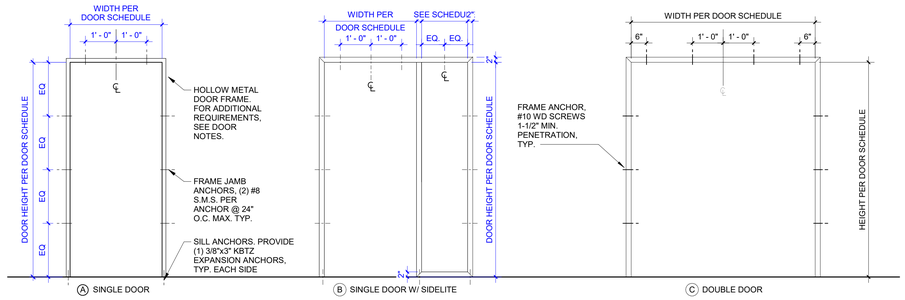


26 DOOR TYPES

3/8" = 1'-0"

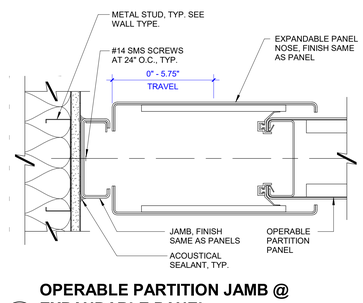


LOCATION	MARK	DOOR NOMINAL SIZE WIDTH	DOOR NOMINAL SIZE HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLASS	FRAME MATERIAL	FRAME DETAILS (REF. DWG. A2.20 U.O.N.) HEAD	FRAME DETAILS JAMB	FRAME DETAILS HANDING	HARDWARE	FIRE RATING	REMARKS
RECEPTION #101	101	3' - 0"	8' - 0"	WD	D	TG	HM	8 / -	9 / -		A	45 MIN	1
LARGE CONFERENCE A #103A	103A	3' - 0"	8' - 0"	WD	B		HM	8 / -	9 / -		B	45 MIN	2
LARGE CONFERENCE A #103A	103B	3' - 0"	8' - 0"	WD	A		HM	8 / -	9 / -		C	45 MIN	2
LARGE CONFERENCE B #103B	103C	3' - 0"	8' - 0"	WD	A		HM	8 / -	9 / -		C	45 MIN	2
LARGE CONFERENCE B #103B	103D	3' - 0"	8' - 0"	WD	A		HM	8 / -	9 / -		C	45 MIN	2
CONFERENCE ROOM #104	103E	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		C	45 MIN	
CONFERENCE ROOM #104	104A	3' - 0"	8' - 0"	WD	D	TG	AL	13 / -	14 / -		T		1
HOSPITALITY #105	105	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		A		
WOMENS TOILET #106	106	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		K		
TOILET #107	107	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		J		
STORAGE #108	108	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		D		
SMALL CLASSROOM #110	110	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		U		
STORAGE #111	111A	6' - 0"	8' - 0"	WD	B		AL	13 / -	14 / -		O		1
STORAGE #111	111B	6' - 0"	8' - 0"	WD	B		HM	8 / -	9 / -		P	45 MIN	
OPEN OFFICES #117/SING #116	116	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		Q		1
OPEN OFFICES #117	117B	3' - 0"	8' - 0"	WD	F	TG	AL	13 / -	14 / -		H		1
OPEN OFFICES #117	117C	6' - 0"	8' - 0"	WD	G	TG	AL	13 / -	13 / -		E		1
JANITOR #118	118	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		F		
BREAKROOM #119	119	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		G		
OFFICE #120	120	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		H		
OFFICE #121	121	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		H		
SERVER ROOM #126B	126	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		R		1
STORAGE #130	130B	3' - 6"	8' - 0"	WD	A		AL		14 / -		R		
JANITOR #201	201	3' - 0"	8' - 0"	WD	A		AL	13 / -	14 / -		F		
OFFICE #216	216	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		H		
BREAK ROOM #255	255A	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		G		
BREAK ROOM #255	255B	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		G		
OPEN OFFICES #258	258A	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		N		
OPEN OFFICES #258	258B	3' - 0"	8' - 0"	WD	C	TG	AL	13 / -	14 / -		N		1
OFFICE #272	272	3' - 0"	8' - 0"	WD	D		AL	13 / -	14 / -		H		

2

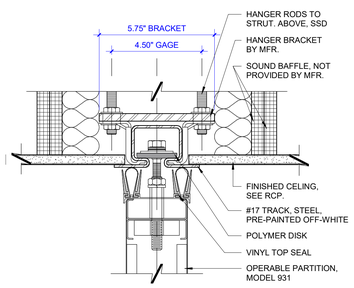
27 FRAME ANCHORAGE

1/2" = 1'-0"



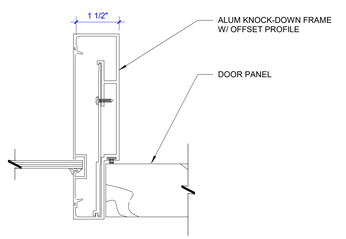
23 OPERABLE PARTITION JAMB @ EXPANDABLE PANEL

3" = 1'-0"



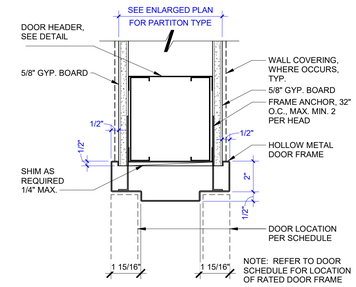
18 OPERABLE PARTITION HEAD

3" = 1'-0"



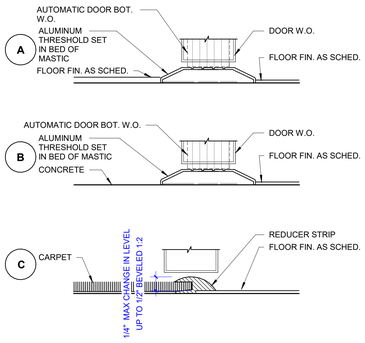
13 TYP ALUM DOOR HEAD FRAME AT SIDELITE/TRANSOM (HEAD SIM)

6" = 1'-0"



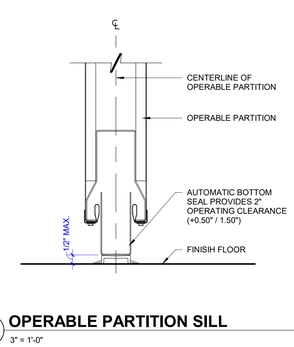
8 INTERIOR DOOR HEAD

3" = 1'-0"



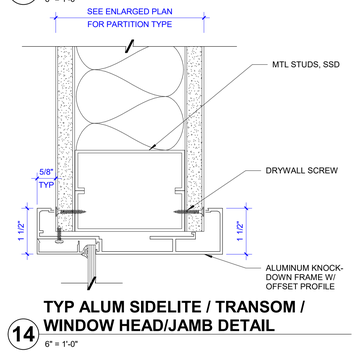
30 THRESHOLD TYPES

6" = 1'-0"



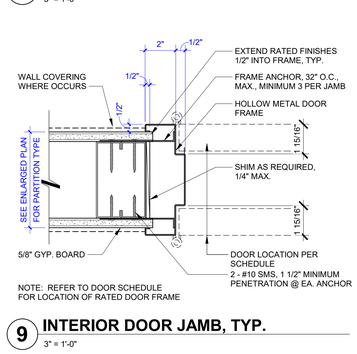
19 OPERABLE PARTITION SILL

3" = 1'-0"



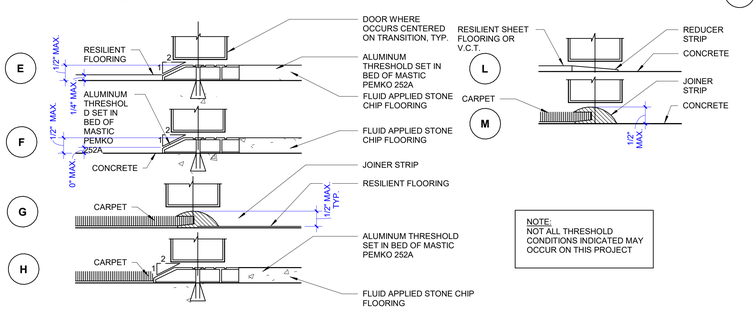
14 TYP ALUM SIDELITE / TRANSOM / WINDOW HEAD/JAMB DETAIL

6" = 1'-0"



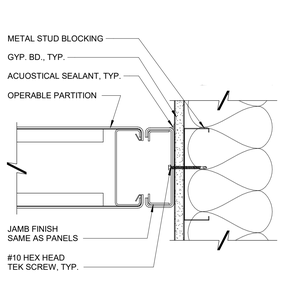
9 INTERIOR DOOR JAMB, TYP.

3" = 1'-0"



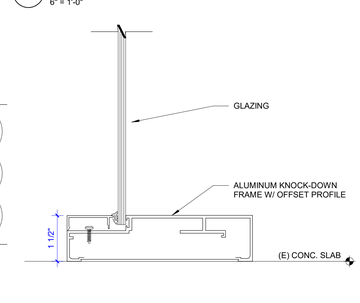
30 THRESHOLD TYPES

6" = 1'-0"



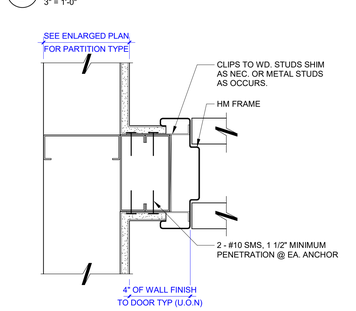
20 OPERABLE PARTITION JAMB

3" = 1'-0"



15 TYP ALUM SIDELITE / TRANSOM / WINDOW SILL

6" = 1'-0"



10 DOOR JAMB AT ADJACENT WALL

3" = 1'-0"

12 DOOR SCHEDULE

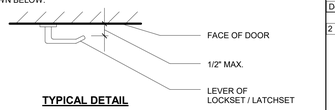
6" = 1'-0"

GENERAL NOTES

1. WHERE DIMENSIONS ARE NOT PROVIDED ON DWGS. OTHER THAN THE FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:

2. SEE SPECIFICATIONS FOR HARDWARE GROUPS.

3. ALL NEW HARDWARE TO BE ADA COMPLIANT, INCLUDING LEVER ACTION DOOR KNOBS. ALL LEVER RETURNS SHALL BE WITHIN 1/2" OF THE FACE OF DOORS AS SHOWN BELOW.



TYPICAL DETAIL

4. ADJUST DOOR CLOSER FOR MAXIMUM PUSH/PULL EFFORT TO OPERATE DOOR AS FOLLOWS:
(EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO CENTER PLANE OF DOOR):
   A. INTERIOR DOORS: NOT TO EXCEED 5 POUNDS.
   B. FIRE RATED DOORS: NOT TO EXCEED 15 POUNDS.

5. 32" MINIMUM CLEARANCE THROUGH ALL DOORS, WHICH HAVE A MINIMUM OPENING OF 90 DEGREES.

6. PULL SIDE: 18" WIDE X 60" DEEP STRIKE SIDE CLEARANCE AT ALL INTERIOR DOORS AND A 24" WIDE X 60" DEEP STRIKE SIDE CLEARANCE AT ALL EXTERIOR DOORS.

7. PUSH SIDE: 12" WIDE X 48" DEEP STRIKE SIDE CLEARANCE AT ALL DOORS.

8. ALL DOOR CLEARANCES HAVE LEVEL LANDINGS NO MORE THAN 2% SLOPE WHICH CONNECT TO ACCESSIBLE ROUTES.

9. THRESHOLDS AT ALL DOORS HAVE A MAXIMUM ¼" CHANGE IN LEVEL, OR MAXIMUM ½" CHANGE IN LEVEL BEVELED 1:2.

10. DOORS HAVE A CLOSING TIME OF 5 SECONDS MINIMUM FROM 90 DEGREES TO 12 DEGREES. SWINGING DOORS HAVE A 10" MINIMUM OF SMOOTH, UNINTERRUPTED SURFACE OF THE DOOR ON THE PUSH SIDE.

11. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS OF DOORS AND GATES MOUNTED BETWEEN 34"-44 AFF, AND DOES NOT REQUIRE PINCHING, GRASPING, OR TWISTING OF THE WRIST TO OPERATE.

12. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS OF DOORS AND GATES MOUNTED BETWEEN 34"-44 AFF, AND DOES NOT REQUIRE PINCHING, GRASPING, OR TWISTING OF THE WRIST TO OPERATE.

13. REFER TO GENERAL NOTES ON ID1.00 FOR FINISHES.

14. ALL EXIT DOORS SHALL RECEIVE PANIC HARDWARE. SEE DOOR SCHEDULE AND HARDWARE GROUPS. SPECIFICATIONS SECTION 08 71 00.

DOOR & FRAME COLUMN REFERENCE GUIDE

1. DOOR MARK: SPECIFIC NUMBER ASSIGNED TO INDIVIDUAL DOOR: E-EXISTING TO REMAIN
2. NOMINAL DOOR SIZE: DESIGNATES NOMINAL WIDTH AND HEIGHT OF DOOR IN FEET AND INCHES. DOOR WIDTH IS GIVEN PER LEAF. REFER TO FLOOR PLAN FOR PAIRS OF DOORS. THICKNESS OF DOOR IS GIVEN IN INCHES.
3. DOOR MATERIAL (MTRL): INDICATES MATERIAL FROM WHICH DOOR IS CONSTRUCTED: HM-HOLLOW METAL, WD-SOLID CORE WOOD, AL-ALUMINUM, FRP - SOLID CORE WOOD FINISHED W/ FRP, IR - SOLID CORE WOOD FINISHED W/ IMPACT RESISTANT (ACROVYN)
4. DOOR TYPE: ALPHANUMERICAL DOOR DESIGNATIONS ARE DERIVED FROM THOSE IDENTIFIED BY THE STEEL DOOR INSTITUTE NOMENCLATURE FOR STANDARD DOOR DESIGNS (SEE DOOR TYPES)
5. DOOR GLASS: DESIGNATES TYPE OF GLASS TO BE USED IN DOOR: TG-TEMPERED GLASS, WG-WIRE GLASS, LAM-LAMINATED GLASS, ETC.
6. FRAME MATERIAL (MTRL): INDICATES MATERIAL FROM WHICH FRAME IS CONSTRUCTED: HM-HOLLOW METAL, WD-WOOD, AL-ALUMINUM, SST - STAINLESS STEEL, ETC.
7. FRAME DETAILS: REFERENCE NUMBERS FOR FRAME SECTIONS AS CONDITIONS EXIST AT THE WALLS OR JAMBS OF DOORS, ETC.
8. HARDWARE GROUP: NUMERICAL DESIGNATION OF HARDWARE GROUPING TO BE APPLIED TO DOOR AND FRAME. REFER TO SPECIFICATIONS FOR DESCRIPTION OF HARDWARE CONTAINED WITHIN GROUPING.
9. FIRE RATING FOR DOOR AND FRAME: DESIGNATES NUMBER OF MINUTES FOR THE ALPHABETICAL FIRE RESISTANCE RATING CLASSIFICATION LABEL REQUIRED FOR DOOR AND FRAME.
10. SIGNAGE: DESIGNATES SIGNS ADJACENT TO DOORS. REFER TO SIGN SCHEDULE FOR SIGN TYPE AND DETAILS.
11. REMARKS: DESIGNATES OR REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THROUGH 11. SEE REMARKS BELOW.
    REMARKS:
    1. CARD READER - CARD READERS SHALL COMPLY WITH ALL CRITERIA SPECIFIED IN CBC 1010.1.9.10 - FOR MORE INFO, SEE SPECIFICATIONS AND CBC 1010.1.9.10 NOTE BELOW.
    2. PANIC HARDWARE IN ACCORDANCE WITH UL 305

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
DOOR SCHEDULE AND TYPES

Client Project Number: N/A

Scale:	As indicated
Drawn By:	Author
Checked By:	Checker
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet
A2.20
Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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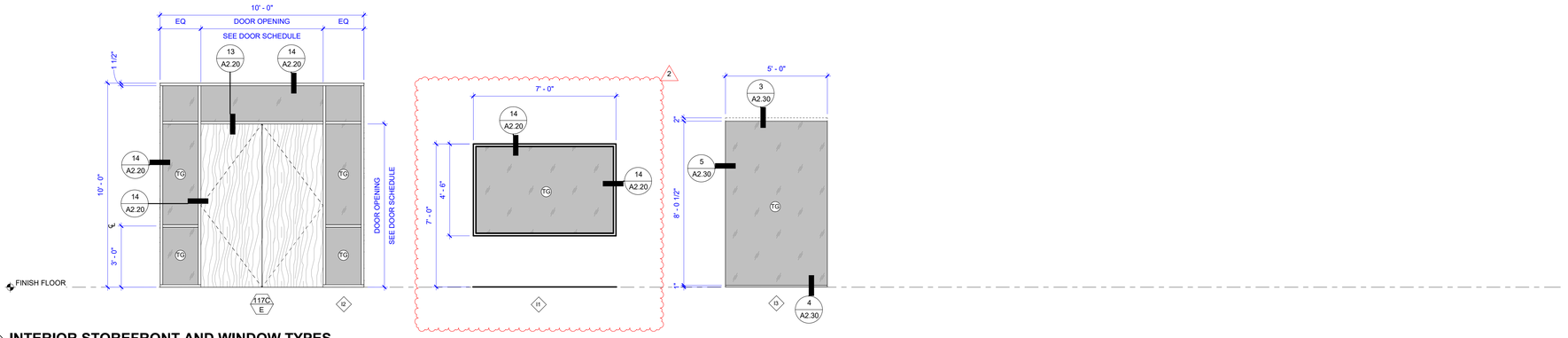
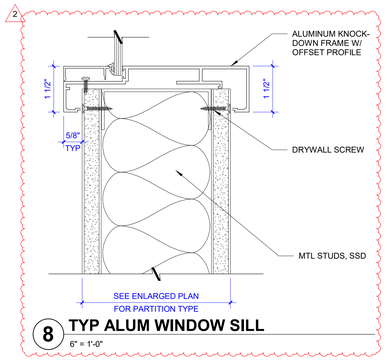


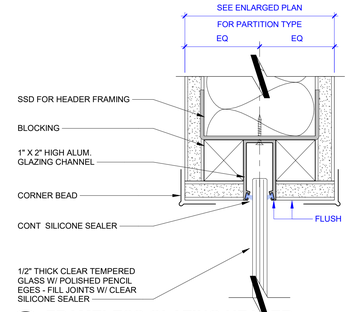
27 INTERIOR STOREFRONT AND WINDOW TYPES

3/8" = 1'-0"



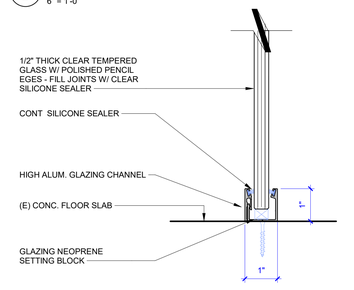
8 TYP ALUM WINDOW SILL

6" = 1'-0"



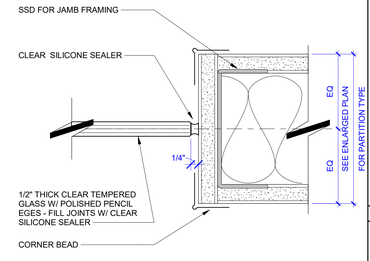
3 FRAMELESS GLAZING HEADER

6" = 1'-0"



4 FRAMELESS GLAZING SILL AT (E) FLOOR

6" = 1'-0"



5 FRAMELESS GLAZING JAMB

6" = 1'-0"

WINDOW SCHEDULE REFERENCE GUIDE

1. SIZE: OVERALL WIDTH AND HEIGHT OF WINDOW IN FEET AND INCHES, INCLUDING FRAME.
2. MATERIAL: INDICATES MATERIAL FROM WHICH FRAME IS CONSTRUCTED, I.E., HM - HOLLOW METAL, WD - WOOD, AL - ALUMINUM, ETC.
3. GLASS: DESIGNATES TYPE OF GLASS TO BE INSTALLED IN WINDOW, I.E., TG - TEMPERED GLASS, LAM - LAMINATED GLASS, WG - WIRE GLASS, INSUL - INSULATING GLASS, ETC.
4. DETAILS: REFERENCE NUMBERS FOR SECTIONS AS CONDITIONS EXIST AT THE WALL, SILL, OR HEAD OF FRAMES WITH ANY UNUSUAL DETAIL REFERENCED UNDER SEPARATE HEADING 5D.
5. WINDOW FRAME FIRE RATING: DESIGNATES ALPHABETICAL FIRE RESISTANCE RATING CLASSIFICATION LABEL REQUIRED FOR WINDOW FRAME WITH TIME PERIOD REQUIRED IN HOURS.
6. REMARKS: REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THRU 5.
   A. PROVIDE WINDOW LIGHT ACCENT REVEAL, SED

FOR TYP. FLASHING AT OPENINGS, SEE 30/A8.14

GENERAL NOTES:

1. ALIGN VERTICAL MULLIONS BETWEEN LOWER & UPPER WINDOW SYSTEMS.
2. FIELD VERIFY ALL WINDOW SIZES & SUBMIT TO ARCHITECT FOR REVIEW. PRIOR TO ORDERING.
3. SEE SPEC SECTION 08 80 00 FOR ADDITIONAL INFO
   - ALL EXT. WDW. & STOREFRONT SYSTEMS' GLAZING: GUARDIAN INDUSTRIES SUNGUARD SNX 51/23 ON CLEAR (GRAY TINT) OR EQ., TRANSMITTANCE 26%, REFLECTANCE OUT 7/ IN 13, U-VALUE .29, SHGC .16.
   - INTERIOR WINDOWS: ALL INTERIOR WINDOWS TO BE DUAL-PANE CLEAR GLAZING, WITH NO TINT, UON

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Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

WINDOW/STOREFRONT TYPES AND DETAILS 2

Client Project Number: N/A

		Sheet
Scale:	As indicated	A2.30
Drawn By:	SH	
Checked By:	HC	
Issue Date:	July 21, 2023	
Revit Version:	2023	Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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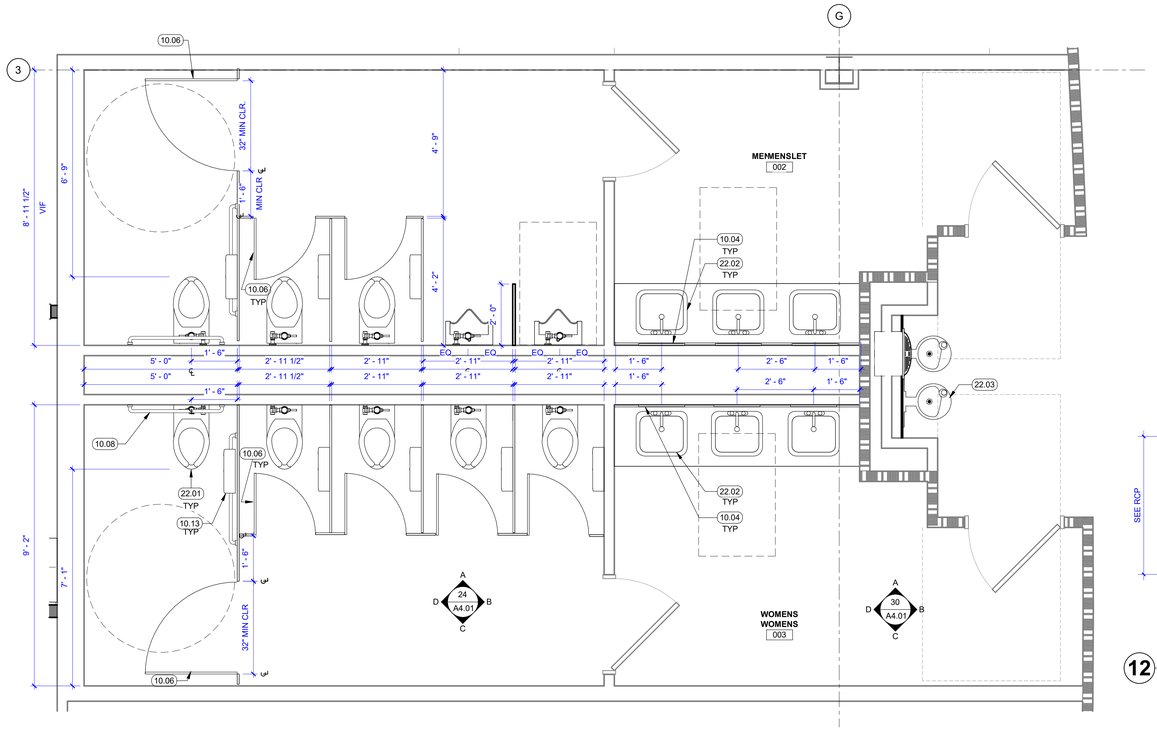
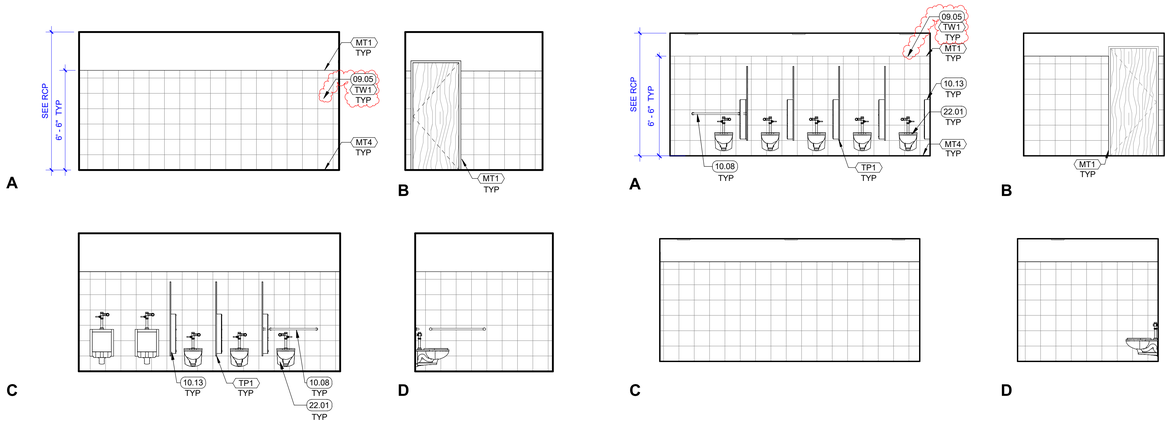


NOTE: ROOM 1XX WOMEN - LAVATORY IS OPPOSITE

28 TYPICAL MEN'S AND WOMEN'S RESTROOMS
1/2" = 1'-0"



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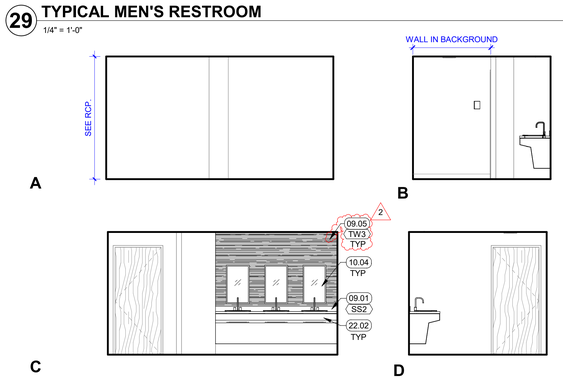
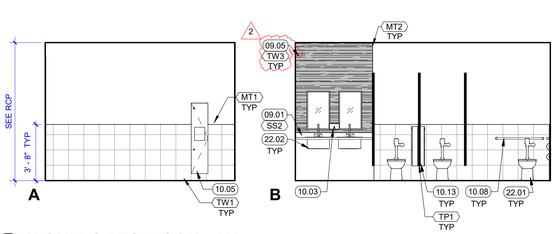
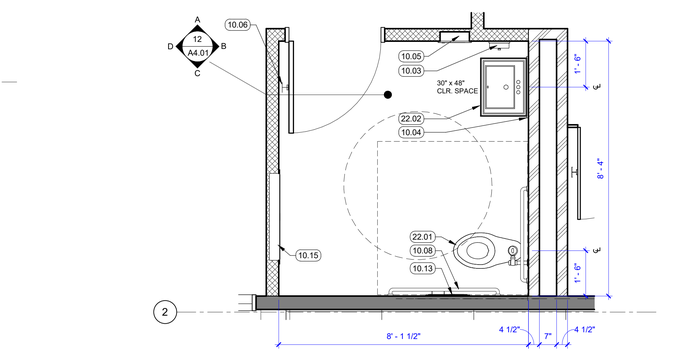


30 TYPICAL MEN'S AND WOMEN'S RESTROOMS - LAVATORY
1/4" = 1'-0"

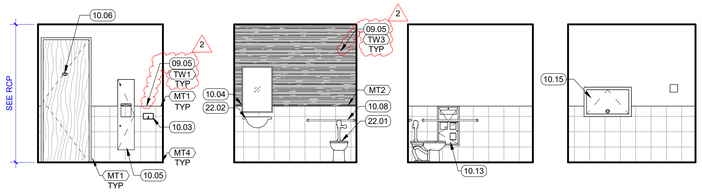
24 TYPICAL WOMEN'S RESTROOM
1/4" = 1'-0"



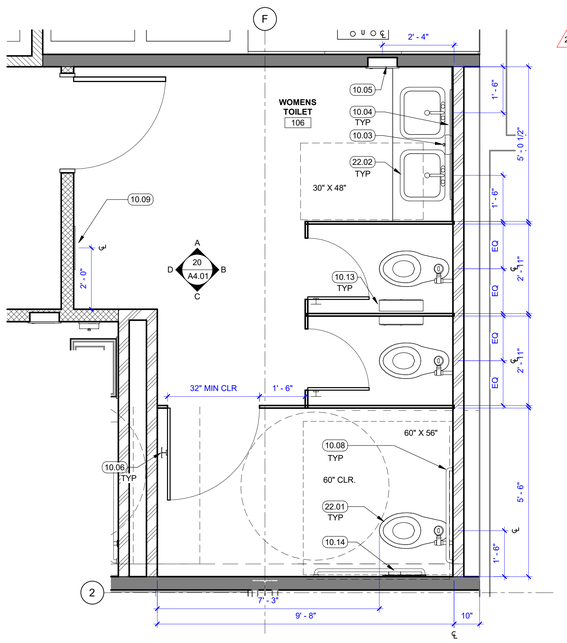
20 WOMENS RESTROOM - 106
1/4" = 1'-0"



6 RESTROOM - 107
1/2" = 1'-0"



12 RESTROOM - 107
1/4" = 1'-0"



14 WOMEN'S RESTROOM - 106
1/2" = 1'-0"

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD. UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.

PARTITION LEGEND

NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

- (E) EXTERIOR MASONRY WALL (BRICK VENEER O/ CMU).
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISTIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.
- (E) PARTITION TO BE DEMOLISHED.
- PARTITION, TYP

KEYNOTES

2	09.01	NEW COUNTER
	09.05	WALL TILE W/ SS METAL TRIM @ BASE, OUTSIDE WALL CORNERS, & THRESHOLD. SEE A9.05 & I1.00 FOR GENERAL FINISH NOTES FOR TYPES PER LOCATION
	10.03	SOAP DISPENSER, SEE DETAIL 13/A9.01
	10.04	MIRROR TO BE CENTERED ABOVE SINK, SEE DETAIL 13/A9.01
	10.05	RECESSED PAPER TOWEL DISPENSER AND TRASH RECEPTACLE , SEE DETAIL 13/A9.02
	10.06	COAT HOOK, SEE DETAIL 13/A9.02
	10.08	48" SIDE GRAB BAR, SEE DETAIL 14/A9.01
	10.09	RECESSED TRASH RECEPTACLE, SEE DETAIL 13/A9.02
	10.13	SURFACE-MOUNTED, SEAT-COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER
	10.14	RECESSED SEAT-COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER SEE DETAIL 13/A9.02
	10.15	RECESSED KOALA CARE BABY CHANGING STATION
	22.01	WALL MOUNTED TOILET, SPD
	22.02	WALL MOUNTED LAV, SPD
	22.03	HI-LO BOTTLE FILLER/DRINKING FOUNTAIN, SED & SPD

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Revisions

Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
ENLARGED PLANS & INT. ELEVATIONS - RESTROOMS

Client Project Number: N/A

Scale:	As indicated
Drawn By:	Author
Checked By:	HC
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **A4.01**
Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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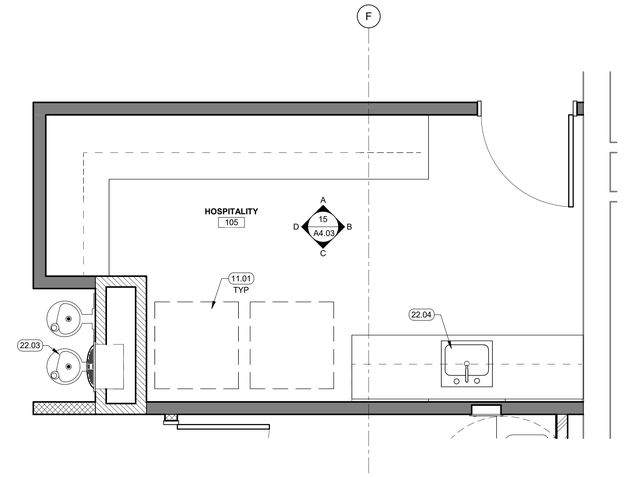
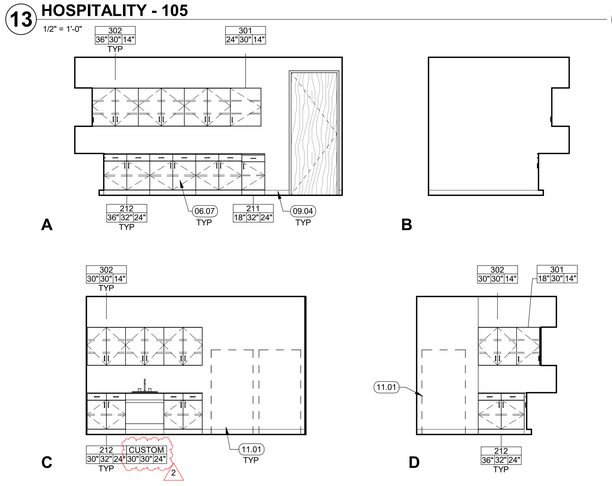


13 HOSPITALITY - 105

1/2" = 1'-0"



15 HOSPITALITY - 105

1/4" = 1'-0"

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
2. ALL DIMENSIONS SHALL BE FACE OF STUD, UON. DIMENSIONS NOTED AS "CLR" REFER TO CLEAR DIMENSION FROM FACE OF FINISH.
3. REFER TO S, M, P, E, C & L SERIES SHEETS FOR ADDITIONAL INFORMATION.

PARTITION LEGEND

NOTE: FOR ANY PARTITION THAT IS NOT TAGGED ON THE PLAN, REFER TO ITS CORRESPONDING GRAPHIC IN THIS WALL LEGEND TO DETERMINE ITS TYPE

EXISTING WALL & PARTITION TYPES:

- (E) EXTERIOR MASONRY WALL (BRICK VENEER O/ CMU).
- (E) 1 HR. RATED FIRE PARTITION (CORRIDOR) W/ 20 MIN. PROTECTED OPENINGS.
- (E) NON- RATED FIRE- RESISTIVE PARTITION (W/ UNPROTECTED OPENINGS) AND/ OR EXTERIOR WALL TO REMAIN.
- (E) PARTITION TO BE DEMOLISHED.
- PARTITION, TYP

KEYNOTES

06.07	BUILT IN CABINET WITH PLASTIC LAMINATE COUNTER TOP, SEE DETAILS ON SHEET A9.10
09.04	FLOORING & WALL BASE. SEE FLOORING FINISH & I1.00 FOR GENERAL FINISH NOTES FOR TYPES PER LOCATION
11.01	REFRIGERATOR, OFOI. PROVIDE POWER AND PLUMBING, SED & SPD
22.03	HI-LO BOTTLE FILLER/DRINKING FOUNTAIN, SED & SPD
22.04	SINK FIXTURE WITH HARDWIRED MOTION SENSOR, SPD

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Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

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1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

ENLARGED PLANS & INT. ELEVATIONS - FIRST FLOOR

Client Project Number: N/A

Scale:	As indicated
Drawn By:	Author
Checked By:	HC
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **A4.03**

Sheet of

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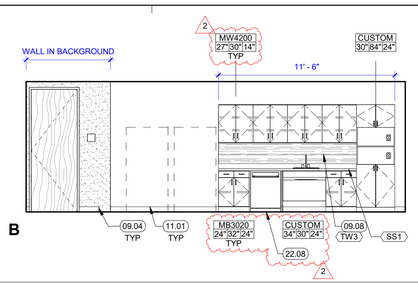
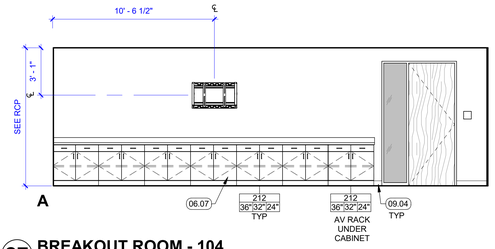


B

21 BREAKROOM - 119

1/4" = 1'-0"



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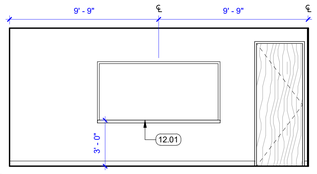

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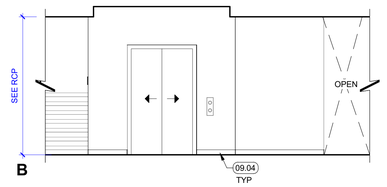
27 BREAKOUT ROOM - 104

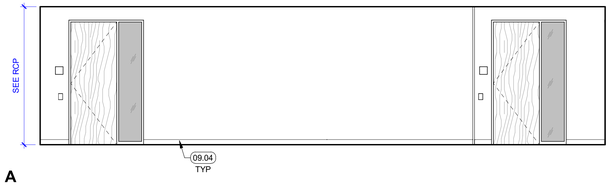
1/4" = 1'-0"



B

12 TYPICAL ELEVATOR CORE

1/4" = 1'-0"



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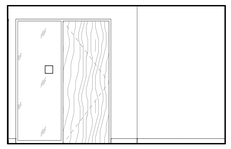

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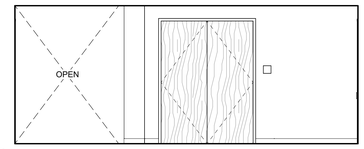
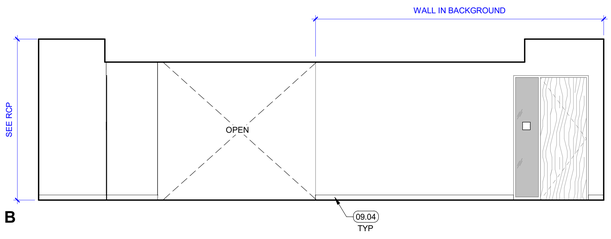


D

28 PRE-FUCTION A - 102A

1/4" = 1'-0"



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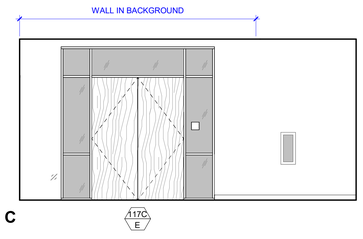

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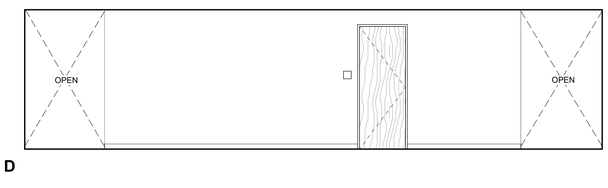

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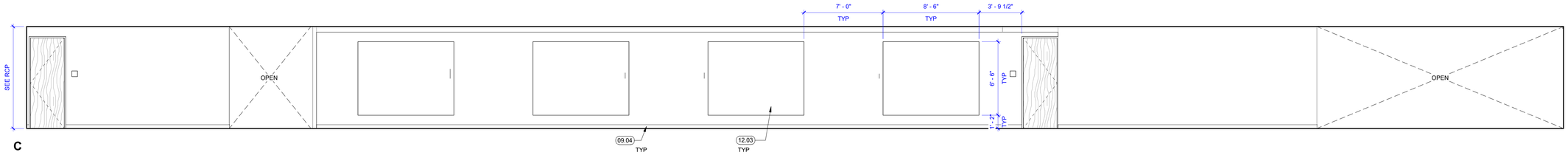
24 BOARDROOM PRE-FUCTION - 102C

1/4" = 1'-0"



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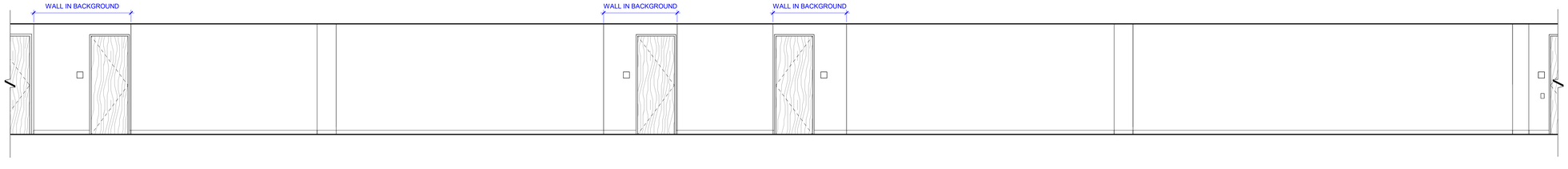

A

30 PRE-FUCTION - 102B

1/4" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES

1. REFER TO ID1.00 FOR FINISH SYMBOL LEGEND, GENERAL NOTES, & SCHEDULE.
2. REFER TO FF SERIES SHEETS FOR FURNITURE CODE DESCRIPTIONS & SPECIFICATIONS.
3. REFER TO Q SERIES SHEETS FOR EQUIPMENT, TOILET & LAVATORY ACCESSORY CODE DESCRIPTIONS & SPECIFICATIONS.
4. REFER TO SG SERIES SHEETS FOR SIGNAGE CODE DESCRIPTIONS & SPECIFICATIONS.
5. FOR ADA COMPLIANT MOUNTING HEIGHTS OF FURNITURE, EQUIPMENT, TOILET & LAVATORY ACCESSORIES REFER TO A9.03.
6. ALL CASEWORK @ HORIZONTAL SURFACES TO RECEIVE PL1, VERTICAL SURFACES TO RECEIVE PL2, UON.

INTERIOR ELEVATION KEYNOTES

06.07	BUILT IN CABINET WITH PLASTIC LAMINATE COUNTER TOP, SEE DETAILS ON SHEET A9.10
09.04	FLOORING & WALL BASE. SEE FLOORING FINISH & I1.00 FOR GENERAL FINISH NOTES FOR TYPES PER LOCATION
09.08	ACCENT TILE BACKSPLASH, SEE INTERIOR ELEVATIONS
11.01	REFRIGERATOR, OFOI. PROVIDE POWER AND PLUMBING, SED & SPD
12.01	WHITE BOARD, OFOI, PROVIDE BACKING, SEE DETAIL 1/A9.02
12.03	DECORATIVE MOSS WALL FINISH SYSTEM IN WALL NICHE. REFER TO INTERIOR ELEVATIONS AND SEE FINISH SCHEDULE
22.08	DISHWASHER, OFOI. PROVIDE POWER, SED

PCOE
GOLD IN EDUCATION

Revisions

#	Delta	Date	Revisions	By
2		8/29/2023	ADDENDUM NO.2	

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HIBSER YAMAUCHI Architects, Inc.
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530.758.1270 tel ¦ 530.758.4789 fax

HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
INTERIOR ELEVATIONS - FIRST FLOOR

Client Project Number: N/A

Scale: 1/4" = 1'-0"
Drawn By: Author
Checked By: HC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet
A5.01
Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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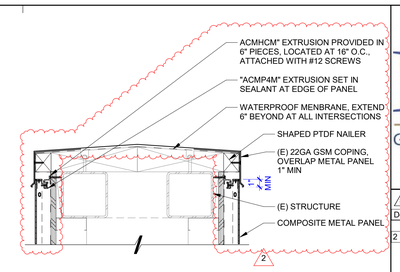
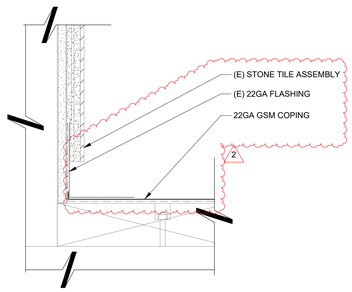
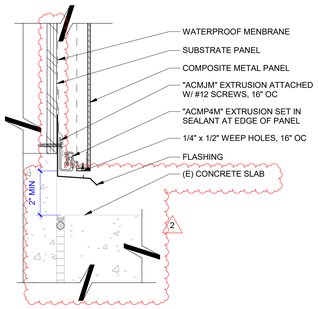


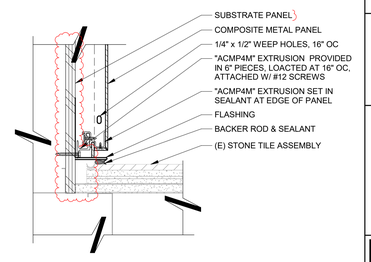
1 PANEL @ COPING
1 1/2" = 1'-0"



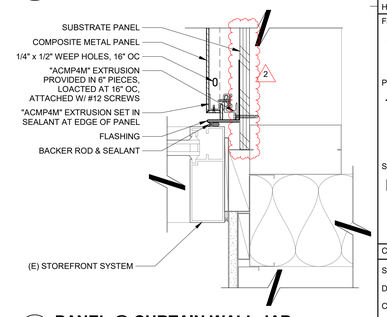
2 PANEL @ COPING & STONE TILE
3" = 1'-0"



3 PANEL @ PLASTER SILL
3" = 1'-0"



4 PANEL @ STONE TILE
3" = 1'-0"



5 PANEL @ CURTAIN WALL JAB
3" = 1'-0"

PCOE
GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

EXTERIOR DETAILS - WALL

Client Project Number: N/A

Scale: As indicated
Drawn By: Author
Checked By: HC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet

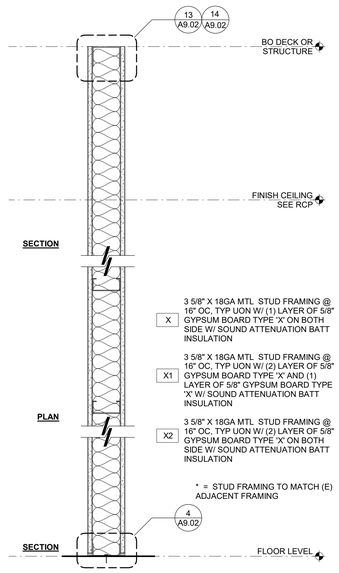
A8.01

Sheet of

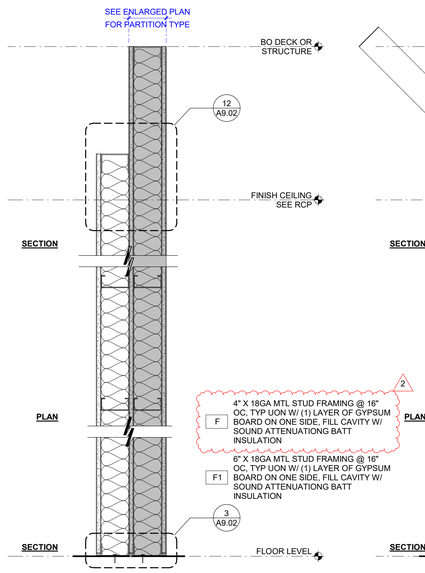
8/31/2023 6:10:39 PM C:\Users\CNguyen\Documents\6013 PCOE 1400 Stanford Ranch_Central_23 recover_cnguyenQLSR4.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

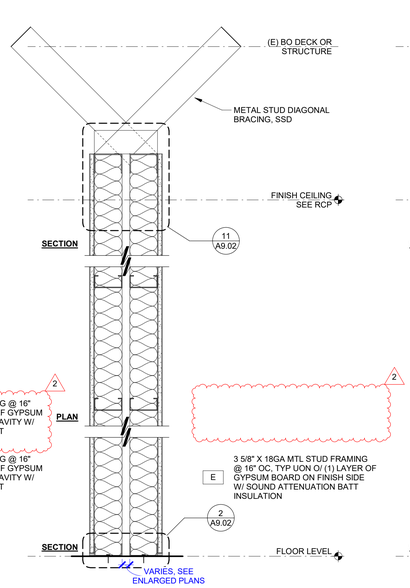
IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



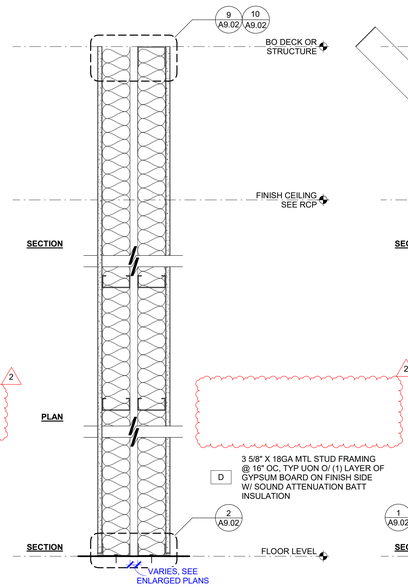
4 **TYPE X** - 1 HR FIRE RATED WALL (UL HW-D-0264)
1 1/2" = 1'-0"



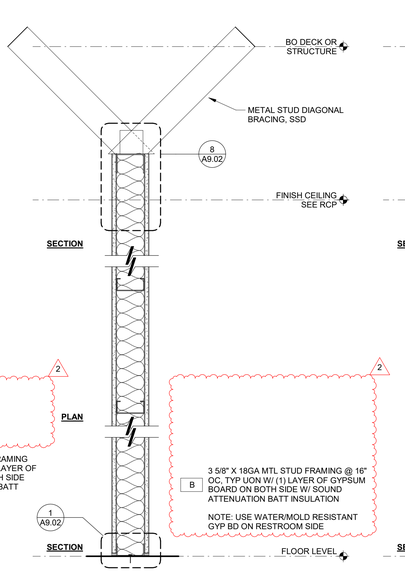
22 **TYPE F** - FURRING PARTITION
1 1/2" = 1'-0"



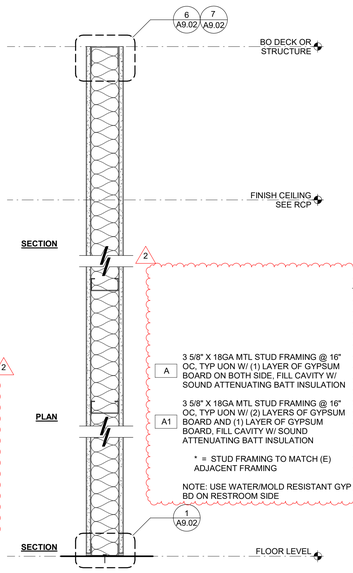
17 **TYPE D** - PARTIAL HEIGHT CAVITY PARTITION
1 1/2" = 1'-0"



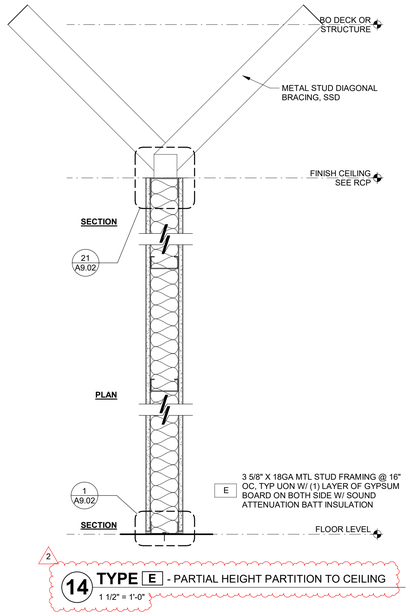
12 **TYPE C** - FULL HIGHT CAVITY PARTITION
1 1/2" = 1'-0"



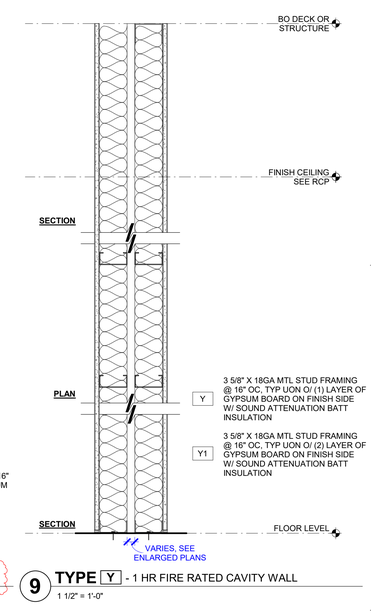
7 **TYPE B** - PARTIAL HEIGHT PARTITION ABOVE CEILING
1 1/2" = 1'-0"



2 **TYPE A** - FULL HEIGHT PARTITION
1 1/2" = 1'-0"



14 **TYPE E** - PARTIAL HEIGHT PARTITION TO CEILING
1 1/2" = 1'-0"



9 **TYPE Y** - 1 HR FIRE RATED CAVITY WALL
1 1/2" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

INTERIOR PARTITION TYPES

Client Project Number: N/A

Scale: 1 1/2" = 1'-0"
Drawn By: CN
Checked By: KC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet

A9.01

Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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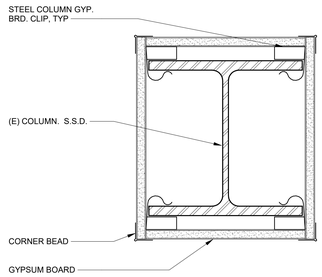
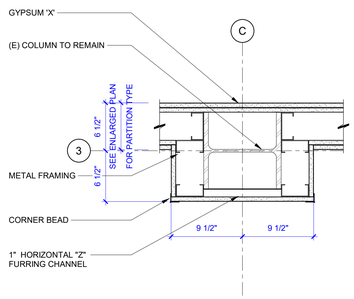
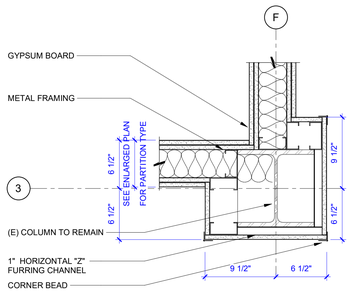


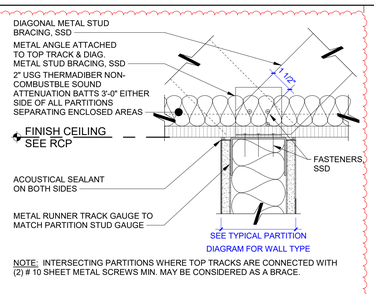
26 TYPICAL COLUMN FURRING
3" = 1'-0"



27 COLUMN FURING AT C-3
1 1/2" = 1'-0"

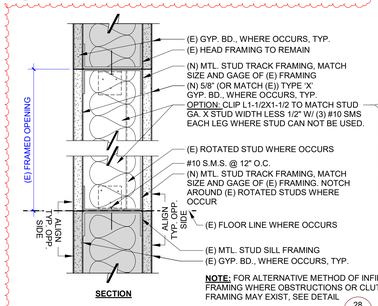


28 COLUMN FURING AT F-3
1 1/2" = 1'-0"



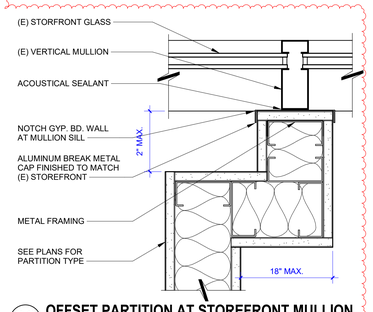
NOTE: INTERSECTING PARTITIONS WHERE TOP TRACKS ARE CONNECTED WITH (2) # 10 SHEET METAL SCREWS MIN. MAY BE CONSIDERED AS A BRACE.

21 PARTITION TO CEILING
3" = 1'-0"

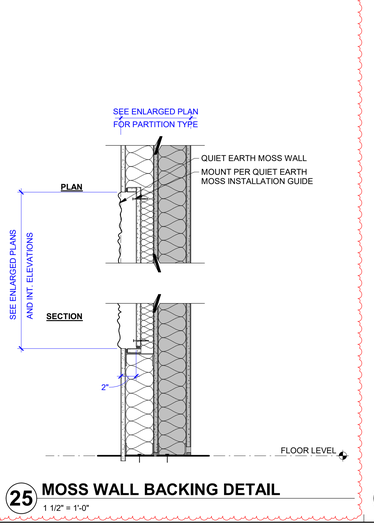


NOTE: FOR ALTERNATIVE METHOD OF INFILL FRAMING WHERE OBSTRUCTIONS OR CLUTTERED FRAMING MAY EXIST, SEE DETAIL 28/A9.08

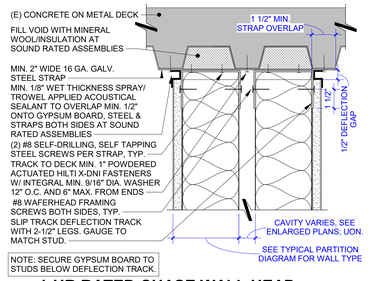
22 WALL INFILL DETAIL
3" = 1'-0"



23 OFFSET PARTITION AT STOREFRONT MULLION
3" = 1'-0"

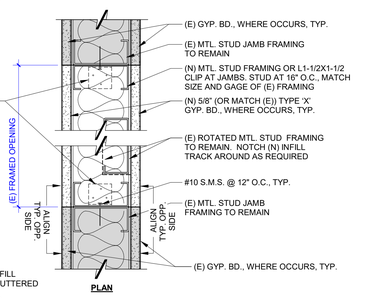


25 MOSS WALL BACKING DETAIL
1 1/2" = 1'-0"

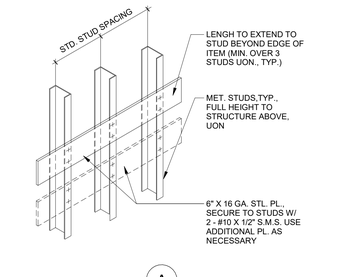


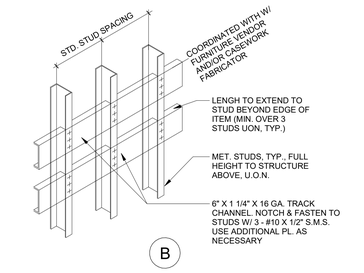
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK.

16 1-HR RATED CHASE WALL HEAD PARALLEL TO METAL DECK
3" = 1'-0"



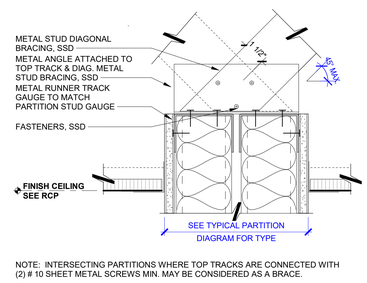
18 TYP PARTITION AT FALSE MULLION
3" = 1'-0"





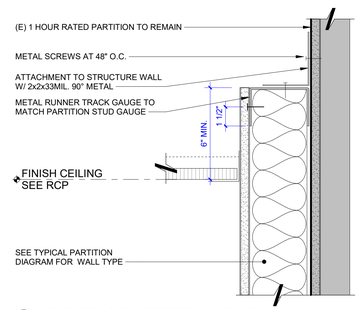
MOUNTING SCREWS: #10 SHEET METAL SCREWS

20 BACKING PLATE DETAIL
N.T.S.

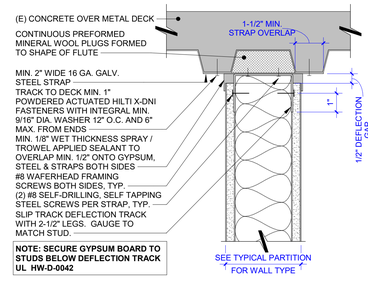


NOTE: INTERSECTING PARTITIONS WHERE TOP TRACKS ARE CONNECTED WITH (2) # 10 SHEET METAL SCREWS MIN. MAY BE CONSIDERED AS A BRACE.

11 CHASE PARTITION ABOVE CEILING
3" = 1'-0"

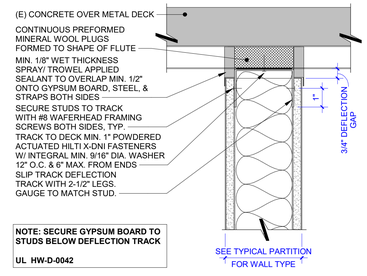


12 FURRING PARTITION HEAD
3" = 1'-0"



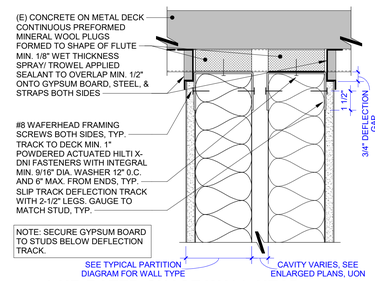
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK UL HW-D-0042

13 1 HR. FIRE BARRIER HEAD PARALLEL TO FRAMING
3" = 1'-0"



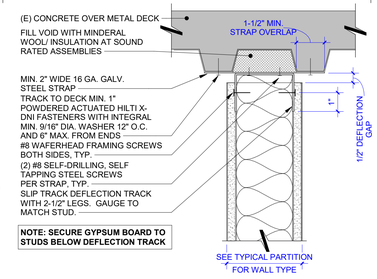
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK UL HW-D-0042

14 1 HR. FIRE BARRIER HEAD PERPENDICULAR TO FRAMING
3" = 1'-0"



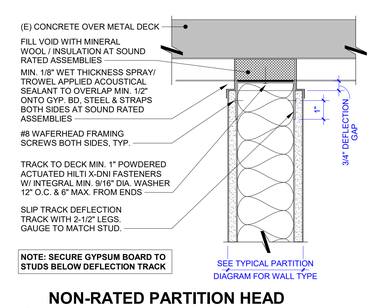
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK.

15 1-HR RATED CHASE WALL HEAD PERP. TO METAL DECK
3" = 1'-0"



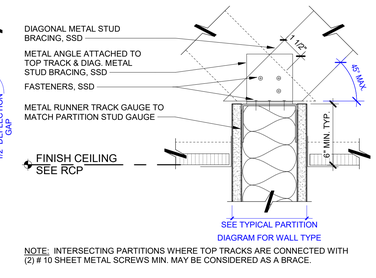
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK.

6 NON-RATED PARTITION HEAD PARALLEL TO FRAMING
3" = 1'-0"



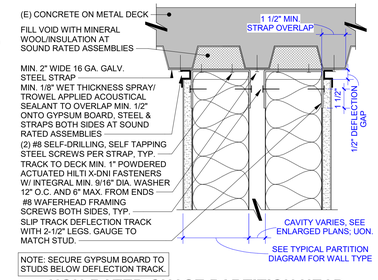
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK

7 NON-RATED PARTITION HEAD PERPENDICULAR TO FRAMING
3" = 1'-0"



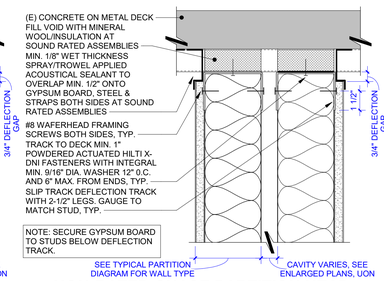
NOTE: INTERSECTING PARTITIONS WHERE TOP TRACKS ARE CONNECTED WITH (2) # 10 SHEET METAL SCREWS MIN. MAY BE CONSIDERED AS A BRACE.

8 TYPICAL PARTITION ABOVE CEILING
3" = 1'-0"



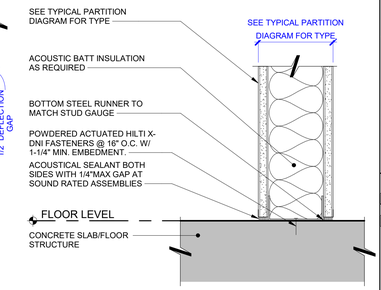
NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK.

9 NON-RATED CHASE PARTITION HEAD PARALLEL TO METAL DECK
3" = 1'-0"

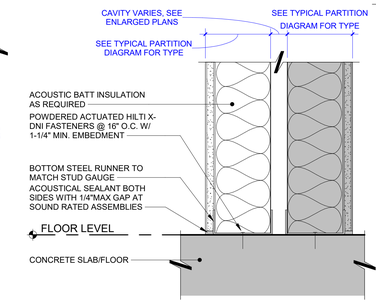


NOTE: SECURE GYPSUM BOARD TO STUDS BELOW DEFLECTION TRACK.

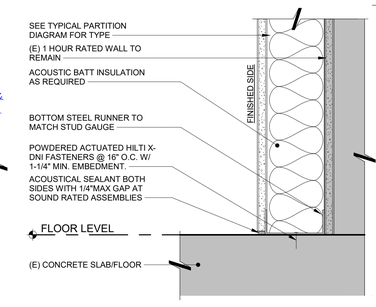
10 NON-RATED CHASE PARTITION HEAD PERP. TO METAL DECK
3" = 1'-0"



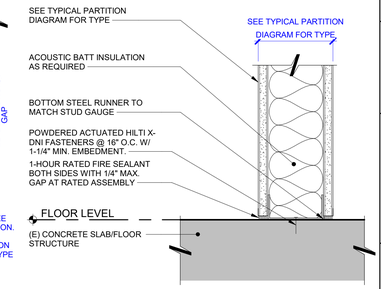
1 NON-RATED PARTITION BASE
3" = 1'-0"



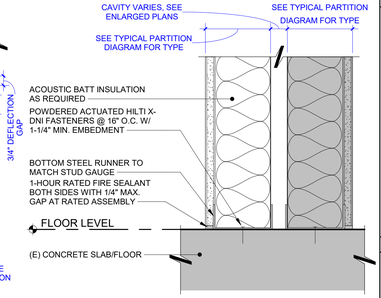
2 NON-RATED CHASE PARTITION BASE
3" = 1'-0"



3 NON-RATED CHASE PARTITION
3" = 1'-0"



4 1-HR RATED WALL BASE
3" = 1'-0"



5 1-HR RATED CHASE WALL BASE
3" = 1'-0"

PCOE GOLD IN EDUCATION

Revisions			
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
INTERIOR DETAILS - PARTITIONS

Client Project Number: N/A

Scale: As indicated
Drawn By: CN
Checked By: KC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet
A9.02
Sheet of

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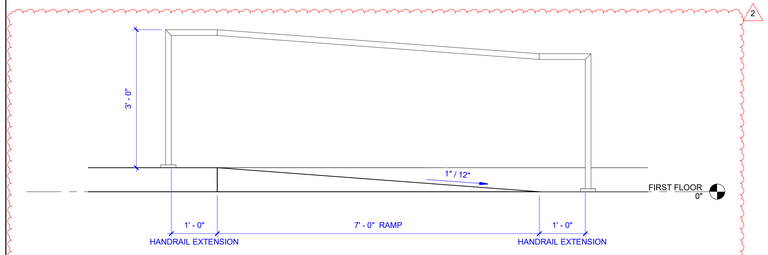
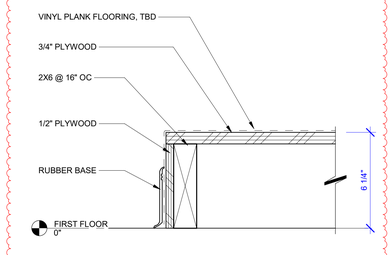
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

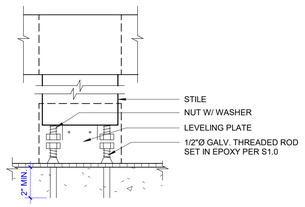
IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

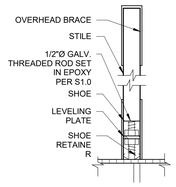


26 PLATFORM RAMP
3/4" = 1'-0"

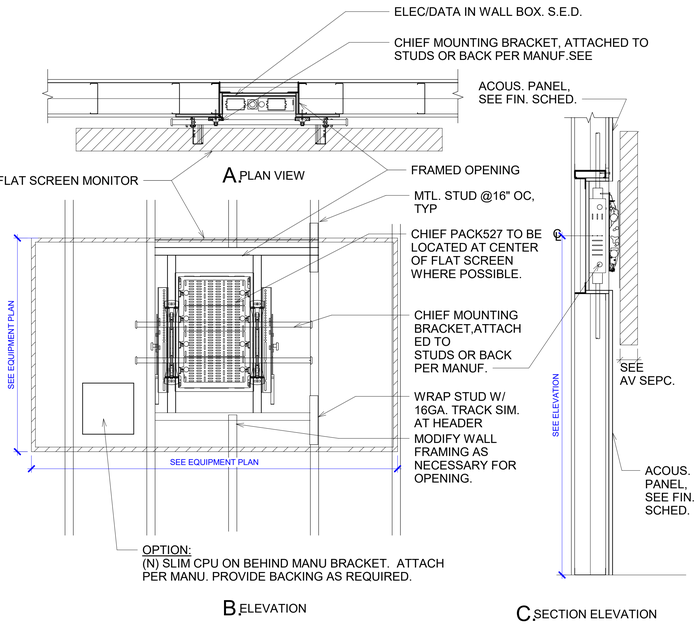


22 PLATFORM SECTION DETAIL
3" = 1'-0"

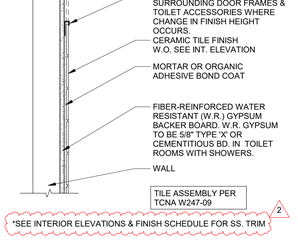




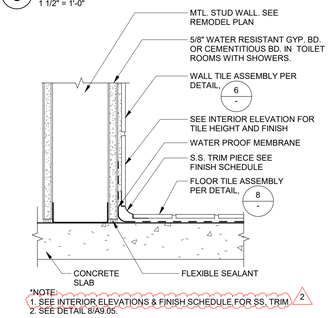
16 TOILET PARTITION ANCHORAGE
3" = 1'-0"



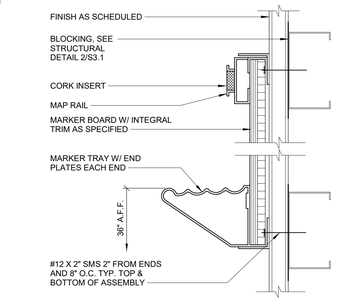
18 FLAT SCREEN BACKING
1" = 1'-0"



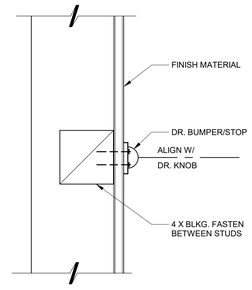
6 TILED WALL DETAIL
1 1/2" = 1'-0"



7 FLOOR TO WALL TILE
3" = 1'-0"



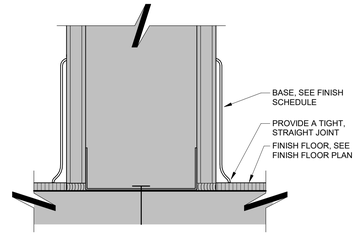
1 MARKER BOARD MOUNTING
6" = 1'-0"



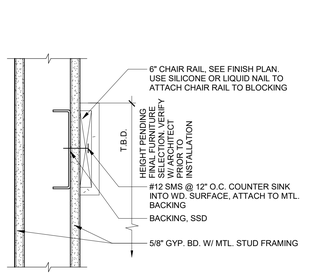
2 DOOR BUMPER / STOP
3" = 1'-0"

8 TILE FLOOR
3" = 1'-0"

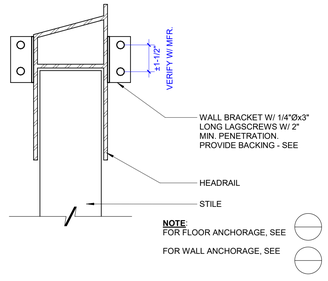
NOTES:
1. REFER TO FINISH SCHEDULE ON ID SHEET ID1.00 FOR FLOORING AND BASE PRODUCT DEFINITION.



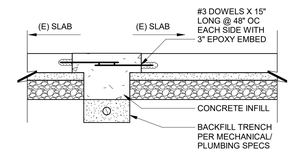
3 WALL BASE
6" = 1'-0"



14 CHAIR RAIL
3" = 1'-0"

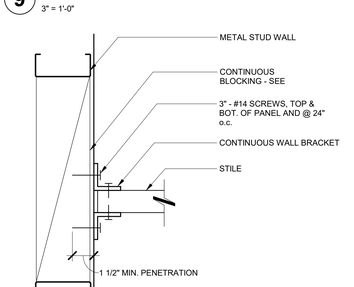


9 PARTITION HEAD RAIL
3" = 1'-0"

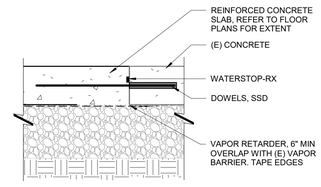


4 SLAB INFILL AT SAWCUT
3/4" = 1'-0"

15 CORNER GUARD 3x3 90° ANGLE
3" = 1'-0"



10 PARTITION @ WALL
3" = 1'-0"



5 SLAB-ON-GRADE WATERPROOFING TO (E) CONCRETE
1 1/2" = 1'-0"

PCOE GOLD IN EDUCATION

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2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
INTERIOR DETAILS - MISC

Client Project Number: N/A

Scale: As indicated
Drawn By: JF/SH
Checked By: HC
Issue Date: July 21, 2023
Revit Version: 2023

Sheet
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Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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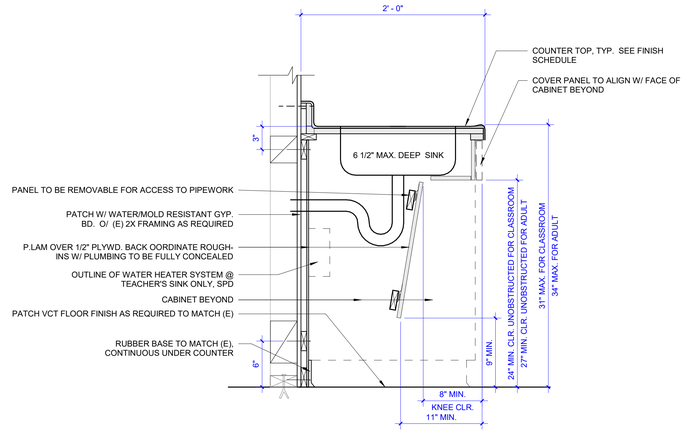
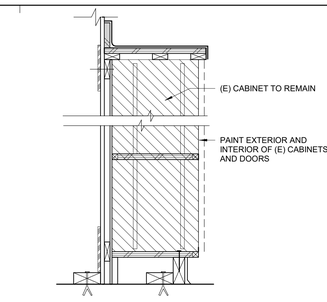


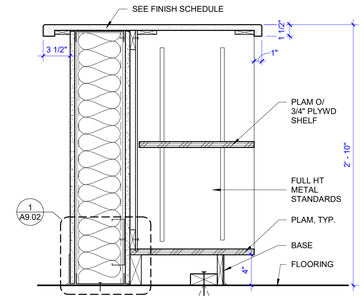
12 OPEN BASE CABINET2

1 1/2" = 1'-0"



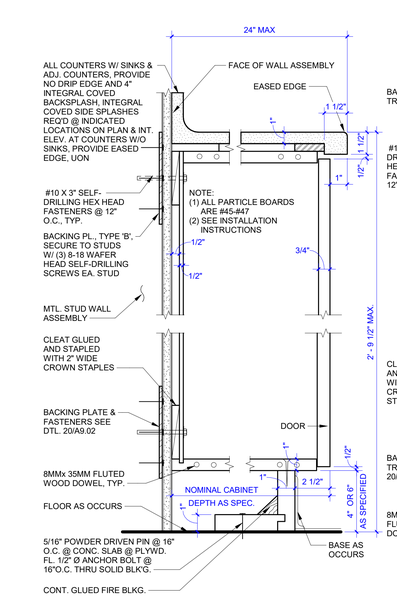
1 EXISTING BASE CABINET

1 1/2" = 1'-0"



2 OPEN ADJ. SHELF CABINET

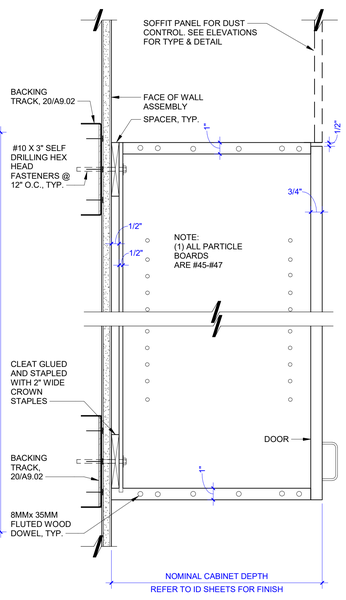
1 1/2" = 1'-0"



*FOR INTERIOR FINISHES REFER TO INTERIOR ELEVATIONS

14 LOWER CABINET DTL., TYP.

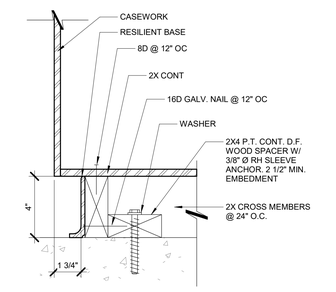
3" = 1'-0"



*NOTE: 1.5MM PVC EDGE BANDING @ DOORS
*FOR INTERIOR FINISHES REFER TO INTERIOR ELEVATIONS

9 UPPER CABINET DTL., TYP.

3" = 1'-0"



4 CABNIET BASE ANCHOR

3" = 1'-0"

Revisions			
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

CASEWORK DETAILS - WORKING

Client Project Number: N/A

Scale:	As indicated
Drawn By:	JF/SH
Checked By:	HC
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet

A9.10

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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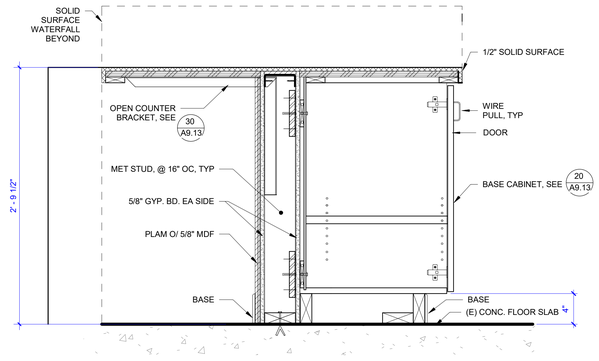
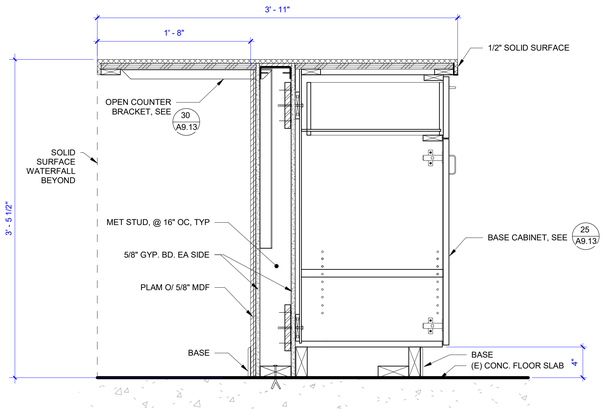


NOTES:
1. FOR FINISHES, REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS
2. ALL PLYWOOD TO BE FIRE RESISTIVE

22 ADA BREAKROOM COUNTER

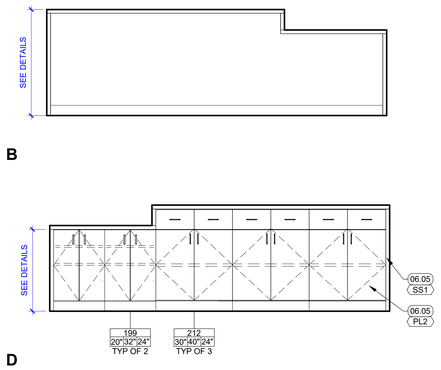
1 1/2" = 1'-0"



NOTES:
1. FOR FINISHES, REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS
2. ALL PLYWOOD TO BE FIRE RESISTIVE

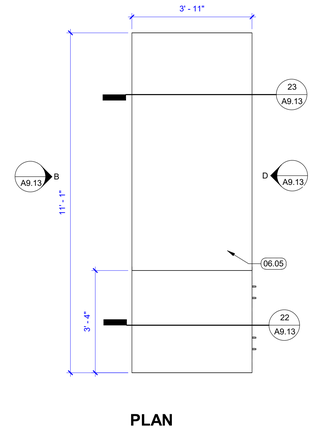
23 BAR HGT. BREAKROOM COUNTER

1 1/2" = 1'-0"



13 BREAKROOM COUNTER - 119

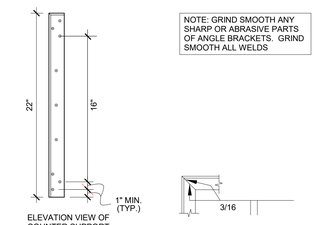
1/2" = 1'-0"



PLAN

KEYNOTES

06.05	BUILT IN BASE CABINET WITH SOLID SURFACE AND COUNTER HEIGHT SEATING, SEE DETAIL A9.13

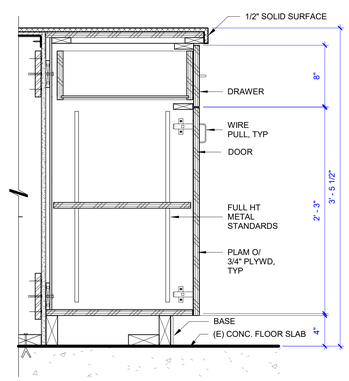


NOTE: GRIND SMOOTH ANY SHARP OR ABRASIVE PARTS OF ANGLE BRACKETS. GRIND SMOOTH ALL WELDS

NOTES:
1. FOR FINISHES, REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS
2. ALL PLYWOOD TO BE FIRE RESISTIVE

30 BREAKROOM OPEN COUNTER

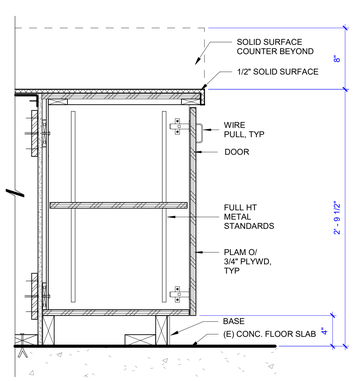
1 1/2" = 1'-0"



NOTES:
1. FOR FINISHES, REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS
2. ALL PLYWOOD TO BE FIRE RESISTIVE

25 41 1/2" BREAKROOM COUNTER CABINET

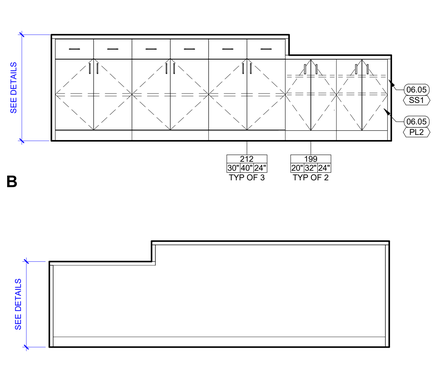
1 1/2" = 1'-0"



NOTES:
1. FOR FINISHES, REFER TO FINISH SCHEDULE & INTERIOR ELEVATIONS
2. ALL PLYWOOD TO BE FIRE RESISTIVE

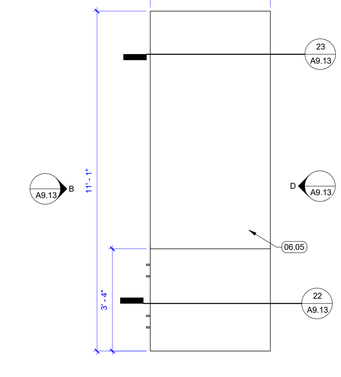
20 33 1/2" BREAKROOM COUNTER CABINET

1 1/2" = 1'-0"



15 BREAKROOM COUNTER - 215

1/2" = 1'-0"



PLAN

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#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

CASEWORK DETAILS - BREAKROOM

Client Project Number: N/A

Scale:	As indicated
Drawn By:	JF/SH
Checked By:	HC
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet 2

A9.13

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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FINISH SCHEDULE

Material: Hatch Icon	CODE	PRODUCT DESCRIPTION	MANUFACTURER	MODEL INFORMATION	COLOR & FINISH INFORMATION
	MT1				
ACCESSORIES					
	AWP1	ACOUSTICAL WALL PANEL, FIELD	ZUMN	DESIGN & ACOUSTICAL PATTERN PROVIDED BY SIGNATURE GRAPHICS SHANE DUNCAN 916.275.9307	COLOR NAME: MEDIUM GREY
	AWP2	ACOUSTICAL WALL PANEL, ACCENT	ZUMN	DESIGN & ACOUSTICAL PATTERN PROVIDED BY SIGNATURE GRAPHICS SHANE DUNCAN 916.275.9307	COLOR NAME: DARK BLUE
	MT1	METAL TRIM, FIELD	SCHLUTER	SERIES: SCHIENE EDGE TRIM HEIGHT: 5/16" PRODUCT CODE: E80EB INSTALL: PROFILE, TILE TO DOOR FRAME, TOP OF TILE	COLOR NAME: STAINLESS STEEL V2A FINISH: BRUSHED STAINLESS STEEL
	MT2	METAL TRIM, ACCENT	SCHLUTER	SERIES: DECO 1/4" WIDE REVEAL HEIGHT: 5/16" PRODUCT CODE: E80D INSTALL: PROFILE, ACCENT WALL TILE TO FIELD TILE	COLOR NAME: STAINLESS STEEL V2A FINISH: STAINLESS STEEL
	MT3	METAL TRIM, ACCENT	SCHLUTER	SERIES: QUADEC SQUARE EDGE TRIM HEIGHT: 5/16" PRODUCT CODE: Q80EB INSTALL: PROFILE, OUTSIDE CORNERS OF TILED SURFACES	COLOR NAME: STAINLESS STEEL V2A FINISH: BRUSHED STAINLESS STEEL
	MT4	METAL TRIM, ACCENT	SCHLUTER	SERIES: DILEX-XXX HEIGHT: 5/16" PRODUCT CODE: XXX INSTALL: HORIZONTAL-VERTICAL TILE INTERSECTION	
	TP1	TOILET PARTITION	ARBORITE	HIGH PRESSURE LAMINATE	COLOR NO.: P325 COLOR NAME: BRUSHED PEWTER FINISH NO.: MX FINISH NAME: METALUX
	WC1	WALL COVERING, FIELD	LEN-TEX	STYLE SERIES NO.: STYLE SERIES NAME: SIZE: THICKNESS: 53/54"	COLOR NAME: AGED RIFT WHITE OAK
	WT1	WINDOW TREATMENT		BRACKET NO.: BRACKET SERIES NAME: SHADE SERIES NO.: SHADE SERIES NAME: SHADE OPACITY: OPERATION: MANUAL OR MOTORIZED	FACIA COLOR NAME: SHADE COLOR NO.: SHADE COLOR NAME:
CASEWORK					
	DP1	DECORATIVE PANEL	TERRAMAI	COLLECTION: MODULAR PANELS SERIES NAME: 3D CUBE	COLOR NAME: ORCHARD WALNUT
	DP2	DECORATIVE PANEL	TERRAMAI	COLLECTION: MODULAR PANELS SERIES NAME: SQUARE SLATE	COLOR NAME: ORCHARD WALNUT
	PL1	PLASTIC LAMINATE, FIELD	WILSONART	HIGH PRESSURE LAMINATE	COLOR NO.: D427 COLOR NAME: LINEN FINISH NO.: 60 FINISH NAME: MATTE
	PL2	PLASTIC LAMINATE, ACCENT	WILSONART	HIGH PRESSURE LAMINATE	COLOR NO.: 17017 COLOR NAME: HARTLEY WALNUT FINISH NO.: 60 FINISH NAME: MATTE
	PL3	PLASTIC LAMINATE, ACCENT	WILSONART	HIGH PRESSURE LAMINATE	COLOR NO.: 7984 COLOR NAME: MANGALORE MANGO FINISH NO.: 60 FINISH NAME: MATTE
	SS1	SOLID SURFACE, FIELD	CORIAN	SERIES NO.: SHEET SHEET SIZE: AS NOTED IN FABRICATION DETAILS THICKNESS: AS NOTED IN FABRICATION DETAILS	COLOR NAME: WHITE ONYX
	SS2	SOLID SURFACE, ACCENT	LX HAUSYS	COLLECTION: HIMACS THICKNESS: 1/2"	COLOR NO.: Z003 COLOR NAME: STRATO WIND FINISH:
CEILING					
	ACT1	ACOUSTICAL CEILING TILE, FIELD	ARMSTRONG	GRID STYLE SERIES NO.: 7301 GRID STYLE SERIES: PRELUDE XL 15/16" EXPOSED TEE GRID TILE STYLE SERIES NO.: 1910 & 1913 TILE STYLE SERIES NAME: ULTIMA; SQUARE LAY-IN SIZE: 24" X 24" & 24" X 48" THICKNESS: 3/4"	COLOR NAME: WHITE
	ACT2	ACOUSTICAL CEILING TILE, HIGH ACOUSTICAL	ARMSTRONG	GRID STYLE SERIES NO.: 7301 GRID STYLE SERIES: PRELUDE XL 15/16" EXPOSED TEE GRID TILE STYLE SERIES NO.: 1940 & 1943 TILE STYLE SERIES NAME: ULTIMA HIGH NRC; SQUARE LAY-IN SIZE: 24" X 24" & 24" X 48"; REFER TO RCP FOR GRID SIZES THICKNESS: 3/4"	COLOR NAME: WHITE
	ACT3	ACOUSTICAL CEILING TILE, WASHABLE	ARMSTRONG	GRID STYLE SERIES NO.: 7301 GRID STYLE SERIES: PRELUDE XL 15/16" EXPOSED TEE GRID TILE STYLE SERIES NO.: 1935 & 1938 TILE STYLE SERIES NAME: ULTIMA HEALTHZONE; SQUARE LAY-IN SIZE: 24" X 24" & 24" X 48"; REFER TO RCP FOR GRID SIZES THICKNESS: 3/4"	COLOR NAME: WHITE
FLOORING					
	CPT1	CARPET, FIELD	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT446 STYLE SERIES NAME: URBAN FIELD II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 989 COLOR NAME: PAVEMENT
	CPT2	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT445 STYLE SERIES NAME: URBAN FRINGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 959 COLOR NAME: METROPOLIS
	CPT3	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT444 STYLE SERIES NAME: URBAN PASSAGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 959 COLOR NAME: METROPOLIS
	CPT4	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT445 STYLE SERIES NAME: URBAN FRINGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 975 COLOR NAME: RIVERSIDE
	CPT5	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT444 STYLE SERIES NAME: URBAN PASSAGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 975 COLOR NAME: RIVERSIDE
	CPT6	CARPET, ACCENT	MOHAWK	COLLECTION: LICHEN STYLE SERIES NO.: GT388 STYLE SERIES NAME: MACRO BLOOM SIZE: 12" X 36" THICKNESS:	COLOR NO.: 975 COLOR NAME: FELT FINISH
	CPT7	CARPET, ACCENT	MOHAWK	COLLECTION: LICHEN STYLE SERIES NO.: GT397 STYLE SERIES NAME: MICRO BLOOM SIZE: 12" X 36" THICKNESS:	COLOR NO.: 975 COLOR NAME: FELT FINISH
	CPT8	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT445 STYLE SERIES NAME: URBAN FRINGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 956 COLOR NAME: GREEN SPACE
	CPT9	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT444 STYLE SERIES NAME: URBAN PASSAGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 956 COLOR NAME: GREEN SPACE
	CPT10	CARPET, ACCENT	MOHAWK	COLLECTION: LICHEN STYLE SERIES NO.: GT388 STYLE SERIES NAME: MACRO BLOOM SIZE: 12" X 36" THICKNESS:	COLOR NO.: 956 COLOR NAME: ISLAND MOSS
	CPT11	CARPET, ACCENT	MOHAWK	COLLECTION: LICHEN STYLE SERIES NO.: GT397 STYLE SERIES NAME: MICRO BLOOM SIZE: 12" X 36" THICKNESS:	COLOR NO.: 956 COLOR NAME: ISLAND MOSS
	CPT12	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT445 STYLE SERIES NAME: URBAN FRINGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 985 COLOR NAME: METROSCAPE
	CPT13	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT444 STYLE SERIES NAME: URBAN PASSAGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 985 COLOR NAME: METROSCAPE
	CPT14	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT444 STYLE SERIES NAME: URBAN PASSAGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 945 COLOR NAME: SKYWAY
	CPT15	CARPET, ACCENT	MOHAWK	COLLECTION: NUTOPIA 2 STYLE SERIES NO.: GT445 STYLE SERIES NAME: URBAN FRINGE II SIZE: 12" X 36" THICKNESS:	COLOR NO.: 945 COLOR NAME: SKYWAY
	CPT16	CARPET, ACCENT	MOHAWK	COLLECTION: LICHEN STYLE SERIES NO.: GT397 STYLE SERIES NAME: MICRO BLOOM SIZE: 12" X 36" THICKNESS:	COLOR NO.: 945 COLOR NAME: SILVA

FINISH SCHEDULE

Material: Hatch Icon	CODE	PRODUCT DESCRIPTION	MANUFACTURER	MODEL INFORMATION	COLOR & FINISH INFORMATION
	CPT17	CARPET, ACCENT	MOHAWK	COLLECTION: LICHEN STYLE SERIES NO.: GT388 STYLE SERIES NAME: MACRO BLOOM SIZE: 12" X 36" THICKNESS:	COLOR NO.: 945 COLOR NAME: SILVA
	RB1	BASE, 4" TOP SET RUBBER	TARKETT	BASEWORKS THERMOSET RUBBER WALL BASE COVED TOE PROFILE 120' COILED LENGTHS HAND WRAP INSIDE & OUTSIDE CORNERS	COLOR NO: 63 COLOR NAME: BURNT UMBER
	RB2	BASE, 4" TOP SET RUBBER	TARKETT	BASEWORKS THERMOSET RUBBER WALL BASE COVED TOE PROFILE 120' COILED LENGTHS HAND WRAP INSIDE & OUTSIDE CORNERS	COLOR NO: TG6 COLOR NAME: MINK WG
	RT1	RESILIENT TILE, FIELD	MOHAWK	COLLECTION: LARGE & LOCAL STYLE SERIES NO.: C0128 STYLE SERIES NAME: LARGE & LOCAL WOOD SIZE: 9.25" X 59" THICKNESS:	COLOR NO.: 978 COLOR NAME: WOODY
	RT2	RESILIENT TILE, ACCENT	MOHAWK	COLLECTION: LIVING LOCAL STYLE SERIES NO.: C0178 STYLE SERIES NAME: OPTIC HUES SIZE: 12" X 24" THICKNESS:	COLOR NO.: 820 COLOR NAME: NUANCE
	SDT1	STATIC DISSIPATIVE TILE, FIELD	ARMSTRONG	COLLECTION: EXCELON SDT STYLE SERIES NO.: STYLE SERIES NAME: SIZE: 12" X 12" THICKNESS: 1/8"	COLOR NO.: 51957 COLOR NAME: RIDGE
	TS1	TRANSITION STRIP, CARPET TO RESILIENT	JOHNSONITE	SERIES NO.: SERIES NAME:	COLOR NO.: COLOR NAME:
	TS2	TRANSITION STRIP, TILE TO CARPET	SCHLUTER		
	VCT1	VINYL COMPOSITE TILE, FIELD	ARMSTRONG	COLLECTION: PREMIUM EXCELON RAFFIA STREAM STYLE SERIES NO.: TBD STYLE SERIES NAME: TBD SIZE: 12" X 24" THICKNESS: 0.125"	COLOR NO.: 55901 COLOR NAME: RAIN
	WM1	WALK-OFF MAT, FIELD	PATCRAFT	COLLECTION: WALK FORWARD STYLE SERIES NO.: 10535 STYLE SERIES NAME: CONNECTING SIZE: 24" X 24" THICKNESS:	COLOR NO.: 00560 COLOR NAME: SAUNTER
PAINT					
	PT1	PAINT, FIELD	SHERWIN-WILLIAMS	REFER TO SPECIFICATIONS FOR PAINT SYSTEMS	COLOR NO.: 7757 COLOR NAME: HIGH REFLECTIVE WHITE
	PT2	PAINT, ACCENT	SHERWIN-WILLIAMS	REFER TO SPECIFICATIONS FOR PAINT SYSTEMS	COLOR NO.: 6479 COLOR NAME: DRIZZLE
	PT3	PAINT, ACCENT	SHERWIN-WILLIAMS	REFER TO SPECIFICATIONS FOR PAINT SYSTEMS	COLOR NO.: 6003 COLOR NAME: PROPER GRAY
	PT4	PAINT, ACCENT	SHERWIN-WILLIAMS	REFER TO SPECIFICATIONS FOR PAINT SYSTEMS	COLOR NO.: 6431 COLOR NAME: LEAPFROG
	PT5	PAINT, ACCENT	SHERWIN-WILLIAMS	REFER TO SPECIFICATIONS FOR PAINT SYSTEMS	COLOR NO.: 6516 COLOR NAME: DOWN POUR
TILE					
	TF1	TILE, FLOOR, FIELD	TILE MANUFACTURER: DALTILE GROUT MANUFACTURER: MAPEI	TILE COLLECTION: ARTICULO TILE STYLE SERIES NO.: TILE STYLE SERIES NAME: TILE SIZE: 12" X 24" TILE THICKNESS: 5/16" EPOXY GROUT MODEL: KERAPOXY CQ	TILE COLOR NO.: AR10 TILE COLOR NAME: HEADLINE GREY RECTANGLE TILE FINISH: MATTE GROUT COLOR NO.: GROUT COLOR NAME:
	TW1	TILE, WALL, FIELD	TILE MANUFACTURER: DALTILE GROUT MANUFACTURER: MAPEI	COLLECTION: IMAGICA SIZE: 24" X 24" THICKNESS: 5/16" EPOXY GROUT MODEL: KERAPOXY CQ	TILE COLOR NO.: IG95 TILE COLOR NAME: VISION TILE FINISH: MATTE GROUT COLOR NO.: GROUT COLOR NAME:
	TW2	TILE, WALL, ACCENT	TILE MANUFACTURER: AMERICAN OLEAN GROUT MANUFACTURER: MAPEI	COLLECTION: COLOR APPEAL STYLE SERIES NO.: STYLE SERIES NAME: SIZE: 12" X 18" SHEET THICKNESS: 5/16" EPOXY GROUT MODEL: KERAPOXY CQ	TILE COLOR NO.: C130 TILE COLOR NAME: BLUE MOON TILE FINISH: GLASS RANDOM INTERLOCKING MOSAIC GROUT COLOR NO.: GROUT COLOR NAME:
	TW3	TILE, WALL, ACCENT	TILE MANUFACTURER: AMERICAN OLEAN GROUT MANUFACTURER: MAPEI	COLLECTION: COLOR APPEAL STYLE SERIES NO.: STYLE SERIES NAME: SIZE: 12" X 18" SHEET THICKNESS: 5/16" EPOXY GROUT MODEL: KERAPOXY CQ	TILE COLOR NO.: C134 TILE COLOR NAME: SILVER SPRING TILE FINISH: GLASS RANDOM INTERLOCKING MOSAIC GROUT COLOR NO.: GROUT COLOR NAME:

FINISH SYMBOL LEGEND

- (E) (N) — EXTENT OF EXISTING (E) & NEW (N) FLOORING
- XXX — MATERIAL FINISH
- WALL PROTECTION (WP)
- P — PAINT FINISH
- RS — FLOORING FINISH
- FLOORING / INSTALLATION — DIRECTION OF FLOORING INSTALLATION. REFER TO FINISH SCHEDULE & GENERAL FINISH NOTES FOR ALL OTHER INSTALLATIONS.
- FLOORING / INSTALLATION — QUARTER TURN FLOORING INSTALLATION
- TYPE / W H D / COMMENTS — CASEWORK TYPE; REFER TO WI NORTH AMERICAN ARCHITECTURAL WOODWORK & KAISER CASEWORK STANDARDS
- CASEWORK DIMENSIONS
- CUSTIMIZATIONS & SPECIALTY HARDWARE COMMENTS

GENERAL FINISH NOTES

PROJECT REQUIREMENTS

1.1 REFER TO NEW/ REMODEL PLANS, INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR FINISH INFORMATION AND ADDITIONAL INFORMATION ON SUBSTRATE PREP WORK & REQUIRED TESTING PRIOR TO FINISHES INSTALLATION.

1.2 NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO FINISHES INSTALLATION.

1.3 GENERAL CONTRACTOR & SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARDMENT. SOME PRODUCTS REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON. ALLOW FOR MULTIPLE ROUNDS OF SUBMITTAL REVIEWS WITHIN THE PROJECT SCHEDULE.

1.4 REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. REFER TO BELOW FOR ADDITIONAL PROJECT SPECIFIC REQUIREMENTS.

1.5 PROVIDE COMPLETE FLOORING SUBMITTAL IN 1 PACKAGE: FLOORING, SLAB PREP AND ADHESIVE PRODUCT DATA AND SAFETY DATA SHEETS, FLOORING SEAM DIAGRAM, AND (3) PHYSICAL SAMPLES FOR EACH PRODUCT IN THE SPECIFIED COLOR AND FINISH.

1.6 PROVIDE COMPLETE WALL PROTECTION SUBMITTAL IN 1 PACKAGE: WALL PROTECTION, ADHESIVE, AND ATTACHMENT PRODUCT DATA AND SAFETY DATA SHEETS, SHOP DRAWINGS INDICATING TYPES PER LOCATION, FABRICATION DETAILS, AND (3) PHYSICAL SAMPLES FOR EACH PRODUCT IN THE SPECIFIED COLOR AND FINISH.

1.7 PROVIDE COMPLETE PAINT SUBMITTAL IN 1 PACKAGE: PAINT AND PRIMER PRODUCT DATA AND SAFETY DATA SHEETS, AND (3) PHYSICAL BRUSHOUTS FOR EACH SPECIFIED COLOR AND SHEEN.

AGENCY/CODE REQUIREMENTS

2.1 INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH 2022 CBC SECTION 803, BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723, TESTED IN ACCORDANCE WITH NFPA 286 AND TABLE 803.11.

2.2 INTERIOR FLOOR FINISH AND COVERINGS SHALL COMPLY WITH 2016 CBC SECTION 804, BE TESTED IN ACCORDANCE WITH NFPA 253, COMPLY WITH ASTM E648 & SHALL HAVE A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662.

ACCESSORIES

3.1 ALL WALLS TO RECEIVE CORNER GUARD CG1 @ 90° OUTSIDE CORNERS OF WING WALLS, SEE **1/A9.05**, INSTALL CORNER GUARDS DIRECTLY ABOVE THE WALL BASE. REFER TO REMODEL PLANS FOR TYPES PER LOCATION.

3.7 PROVIDE TWO (2) SETS OF PRIVACY CURTAINS PER EACH LOCATION. LABEL EACH CURTAIN WITH EMBROIDERED TAG THAT CONTAINS THE FOLLOWING INFORMATION: ROOM NUMBER, CURTAIN LENGTH & HEIGHT, FABRIC MANUFACTURER, PATTERN, COLOR & CURTAIN FABRICATOR.

CASEWORK

4.1 ALL CASEWORK SHALL RECEIVE PL1 & SS1, UON ON INTERIOR ELEVATIONS.

4.2 ALL INTERIORS OF ENCLOSED CABINETS INCLUDING SHELVING SHALL RECEIVE MELAMINE FINISH, UON. ALL INTERIORS OF OPEN CABINETS INCLUDING SHELVING SHALL MATCH THE EXTERIOR LAMINATE FINISH, UON.

4.3 REFER TO CASEWORK DETAILS FOR METAL REVEAL & ACCENT TRIM MODELS & FINISHES.

CEILING

5.1 CEILING GRIDS SHALL RECEIVE THE FOLLOWING ACOUSTICAL CEILING TILES PER ROOM TYPE:

A. ALL AREAS SHALL RECEIVE ACT1, UON.
B. OFFICES, DICTATION ROOMS & CONFERENCE ROOMS SHALL RECEIVE ACT2.
C. MED-PREP, FOOD-PREP, STAFF LOUNGE, PATIENT/ TREATMENT, UTILITY, EVS & TOILET ROOMS SHALL RECEIVE ACT3.

FLOORING

6.1 GENERAL CONTRACTOR & SUB-CONTRACTORS SHALL TEST THE FLOORING SUBSTRATE FOR ALL FLOORING MANUFACTURER REQUIRED TESTING INCLUDING MOISTURE CONTENT, POROSITY & RAIDANT HEAT LEVELS, REFER TO SPECIFICATIONS. SUBMIT TEST RESULTS FOR ARCHITECT'S REVIEW PRIOR TO ORDERING FLOORING & START OF FLOORING INSTALLATION. DIAMOND GRIND & BEAD BLAST SUBSTRATE, PROVIDE MOISTURE BARRIER & FLOOR LEVELERS TO ENSURE SUBSTRATE IS LEVEL, SMOOTH, FREE OF DUST & CONSTRUCTION DEBRIS & READY TO RECEIVE NEW FLOORING MATERIAL.

6.2 TOP SET WALL BASE SHALL BE B1, UON. SEE **3/A9.05**. REFER TO INTERIOR ELEVATIONS, FINISH SCHEDULE & FLOORING FINISH PLANS. @ ALL SINK LOCATIONS PROVIDE WELD / CLEAR SEALANT @ TOP-SET WALL BASE TRANSITION TO FLOORING.

6.3 FLOORING & WALL BASE SHALL CONTINUE UNDER ADA COMPLIANT SLOPED & INTEGRAL TOE-KICK SINK CABINETS & WALL HUNG COUNTER. REFER TO INTERIOR ELEVATIONS.

6.4 ALL FLOORING TRANSITIONS TO BE FLOATED, LEVEL, & FLUSH. CONTRACTOR TO ENSURE THAT SLOPE DOES NOT EXCEED 2% IN EITHER DIRECTION. WHERE FLOOR JOINTS OCCUR @ DOORWAYS JOINT SHALL BE @ CL OF DOOR AND COMPLETELY HIDDEN FROM VIEW WHEN DOOR IS IN THE CLOSED POSITION. REFER TO FLOORING FINISH PLANS FOR TYPES PER LOCATION & SEE **20/A9.05.**

6.5 ALL CURVED FLOORING PATTERN ARCS ARE TO BE EASED AND SMOOTH IN APPEARANCE AND LASER FABRICATED. INTRICATE FLOOR PATTERNS ARE NOT TO BE CUT IN THE FIELD BY HAND. COLD WELD ALL ARCS & COLOR TRANSITIONS.

6.6 FOR ESTIMATING/BIDDING PURPOSES INCLUDE MULTIPLE PATTERN/ACCENT PAINT COLORS FOR FLOORING.

6.7 CONTRACTOR TO REFER TO FLOORING MANUFACTURER'S FLOORING INSTALLATION DIAGRAM FOR INTRICATE FLOORING PATTERNS.

PAINT

7.1 ALL WALLS IN THE ENTIRE PROJECT AREA'S SCOPE OF WORK SHALL RECEIVE PAINT PT1, UON. REFER TO PAINT FINISH PLANS. WHERE AREAS ARE NOT IN THE PROJECT SCOPE OF WORK, TERMINATE PAINT AT THE NEAREST INSIDE/OUTSIDE CORNER.

7.2 FOR ESTIMATING/BIDDING PURPOSES, INCLUDE MULTIPLE ACCENT PAINT COLORS

7.3 ALL METAL DOORS & FRAMES & WINDOW FRAMES TO RECEIVE **PT1** IN SEMI-GLOSS FINISH, UON.

7.4 CEILING & WALL METAL ACCESS PANELS TO RECEIVE **PT1** IN SEMI-GLOSS FINISH, UON.

7.5 ALL GYPSUM BOARD WALLS, SOFFITS, & CEILINGS SHALL RECEIVE EGG-SHELL FINISH, UON.

7.8 ALL WALLS SHALL RECEIVE PAINT FINISH PRIOR TO INSTALLATION OF WALL BASE, CASEWORK & CEILING GRID'S PERIMETER WALL TRIM.

7.9 FLOAT & SKIM WALLS TO BE LEVEL & SMOOTH TO MATCH EXISTING & TO RECEIVE NEW WALL BASE.

7.10 REFER TO INTERIOR ELEVATIONS FOR UNIQUE ACCENT PAINT PATTERNS.

2

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

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HY Architects Project number: 6013

Facility

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Project

TENANT IMPROVEMENTS

Sheet Title

INTERIOR FINISH SCHEDULE, SYMBOL LEGEND & GENERAL NOTES

Client Project Number: N/A

Scale: 1/4" = 1'-0"
Drawn By: Author
Checked By: Checker
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **I1.00**

Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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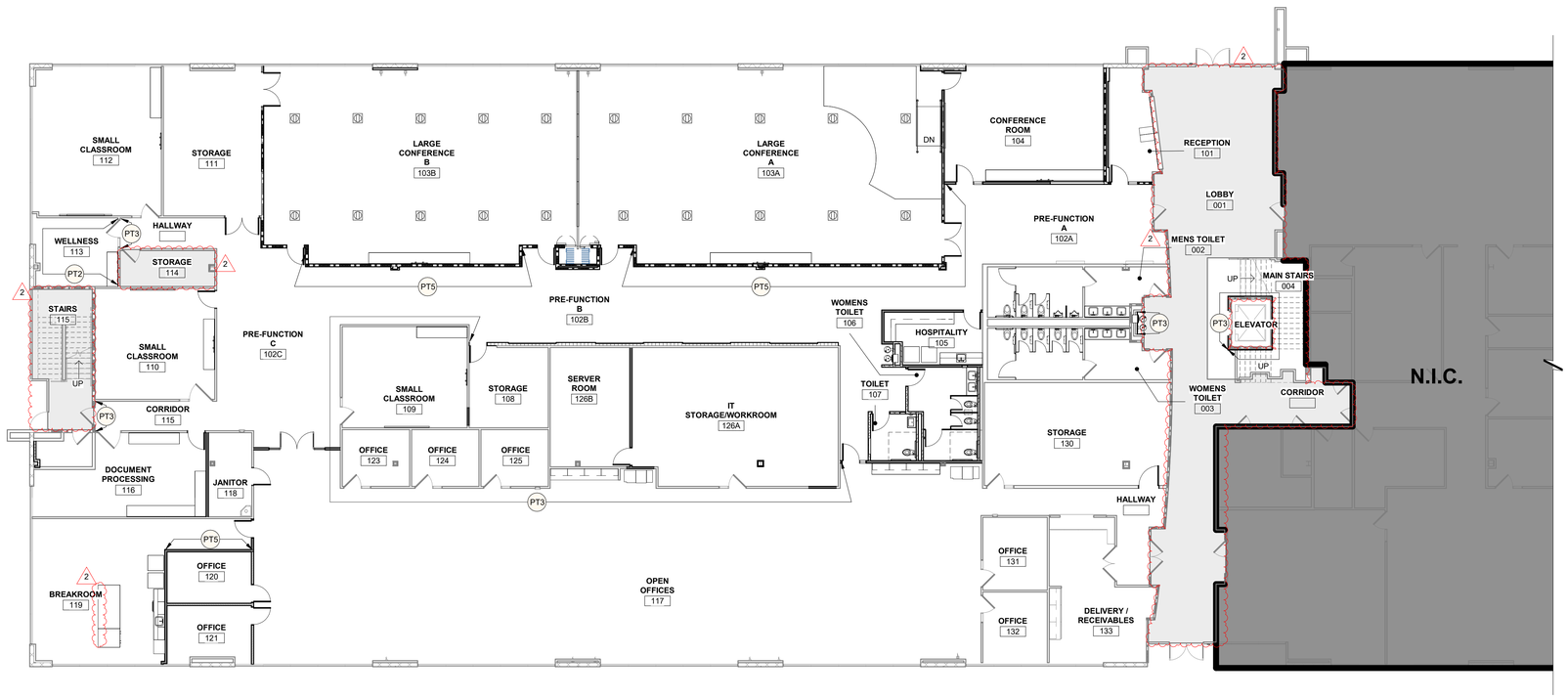
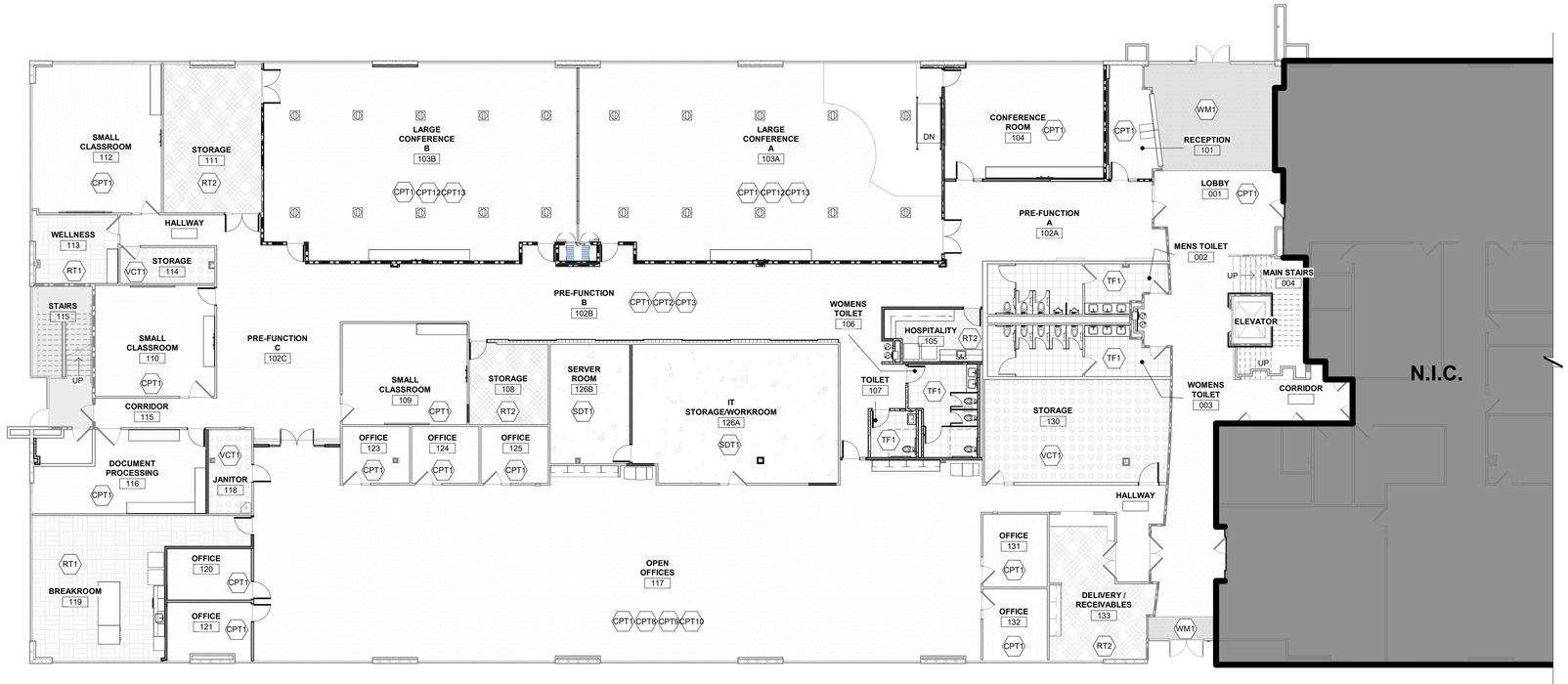


28 FIRST FLOOR PAINT FINISH PLAN - WEST

3/32" = 1'-0"



30 FIRST FLOOR FLOORING FINISH PLAN - WEST

3/32" = 1'-0"

GENERAL FINISH NOTES

1. REFER TO I1.00 FOR FINISH SYMBOL LEGEND, GENERAL NOTES & SCHEDULE.
2. REFER TO I2.04 & I2.05 FOR CARPET INSTALLATION DIAGRAMS.

FLOORING FINISH HATCH LEGEND

- CARPET
- RESILIENT FLOORING
- VCT FLOORING
- SDT FLOORING
- TILE FLOORING
- FLOORING TO REMAIN

PAINT FINISH LEGEND

- NOT IN SCOPE

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Revisions

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2	8/29/2023	ADDENDUM NO.2	

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Project

TENANT IMPROVEMENTS

Sheet Title

OVERALL FIRST FLOOR - FINISH PLAN

Client Project Number: N/A

Scale:	As indicated
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Issue Date:	July 21, 2023
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Sheet **I2.02**

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PAINT FINISH LEGEND

NOT IN SCOPE

FLOORING FINISH HATCH LEGEND

- CARPET
- RESILIENT FLOORING
- VCT FLOORING
- SDT FLOORING
- TILE FLOORING
- FLOORING TO REMAIN

GENERAL FINISH NOTES

1. REFER TO I1.00 FOR FINISH SYMBOL LEGEND, GENERAL NOTES & SCHEDULE.
2. REFER TO I2.04 & I2.05 FOR CARPET INSTALLATION DIAGRAMS.

28 SECOND FLOOR PAINT FINISH PLAN

3/32" = 1'-0"

30 SECOND FLOOR FLOORING FINISH PLAN

3/32" = 1'-0"

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PCOE GOLD IN EDUCATION

#	Revisions		
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2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

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Project

TENANT IMPROVEMENTS

Sheet Title

OVERALL SECOND FLOOR - FINISH PLAN

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Issue Date:	July 21, 2023
Revit Version:	2023

Sheet

I2.03

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SIGNAGE SCHEDULE

LOCATION	SIGN TYPE	ITEM DESCRIPTION	SIGNAGE COPY	COPY COLOR	PLAQUE COLOR
1	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
2	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
3	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
4	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
5	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
6	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
7	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
8	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
9	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
10	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
11	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
12	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
13	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
14	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
15	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
16	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
17	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
18	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
19	FLOOR IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
20	EXIT SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
21	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
22	STAIR IDENTIFICATION SIGN	TACTILE	TBD	WHITE	CHARCOAL
23	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
24	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
25	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
26	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
27	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
28	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
29	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
30	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
31	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
32	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
33	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
34	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
35	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
36	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
37	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
38	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
39	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
40	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
41	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
42	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
43	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
44	RESTROOM DOOR SIGN	TACTILE	TBD	WHITE	CHARCOAL
45	RESTROOM WALL SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
46	RESTROOM WALL SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
47	RESTROOM DOOR SIGN	TACTILE	TBD	WHITE	CHARCOAL
48	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
49	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
50	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
51	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
52	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
53	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
54	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
55	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
56	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
57	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
59	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
60	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
61	EXIT SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
62	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
63	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
64	RESTROOM WALL SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
65	RESTROOM DOOR SIGN	TACTILE	TBD	WHITE	CHARCOAL
66	RESTROOM WALL SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
67	RESTROOM DOOR SIGN	TACTILE	TBD	WHITE	CHARCOAL
68	FLOOR IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
69	STAIR IDENTIFICATION SIGN	TACTILE	TBD	WHITE	CHARCOAL
70	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
71	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
72	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
73	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
74	EXIT SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
75	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
76	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
77	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
78	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
79	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
80	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
81	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
82	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
83	FLOOR IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
84	STAIR IDENTIFICATION SIGN	TACTILE	TBD	WHITE	CHARCOAL
85	STAIR EXIT SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
86	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
87	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
88	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
89	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL

SIGNAGE SCHEDULE

LOCATION	SIGN TYPE	ITEM DESCRIPTION	SIGNAGE COPY	COPY COLOR	PLAQUE COLOR
90	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
91	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
92	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
93	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
94	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
95	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
96	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
97	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
98	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
99	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
100	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
101	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
102	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
103	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
104	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
105	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
106	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
107	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
108	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
109	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
110	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
111	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
112	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
113	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
114	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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116	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
117	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
118	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
119	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
120	RESTROOM DOOR SIGN	TACTILE	TBD	WHITE	CHARCOAL
121	RESTROOM WALL SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
122	RESTROOM DOOR SIGN	TACTILE	TBD	WHITE	CHARCOAL
123	RESTROOM WALL SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
124	STAIR EXIT SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
125	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
126	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
127	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
128	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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130	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
131	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
132	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
133	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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135	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE		WHITE	CHARCOAL
136	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
137	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
138	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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140	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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143	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
144	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
145	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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149	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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151	STAIR IDENTIFICATION SIGN	TACTILE	TBD	WHITE	CHARCOAL
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155	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
156	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
157	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
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161	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
162	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
163	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
164	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
165	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
166	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
167	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
168	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
169	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
170	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
171	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
172	ROOM IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
173	STAIR IDENTIFICATION SIGN	TACTILE	TBD	WHITE	CHARCOAL
174	FLOOR IDENTIFICATION SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
175	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
176	EXIT ROUTE SIGN	TACTILE WITH BRAILLE	TBD	WHITE	CHARCOAL
180	DIMENSIONAL LETTERING	BRUSHED ALUMINUM	PCOE	N/A	BRUSHED ALUMINUM

2

PCOE
GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

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HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel ¦ 530.758.4789 fax

HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

SIGNAGE SCHEDULE

Client Project Number: N/A

Scale:
Drawn By: Author
Checked By: Checker
Issue Date: July 21, 2023
Revit Version: 2023

Sheet

SG1.01

Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

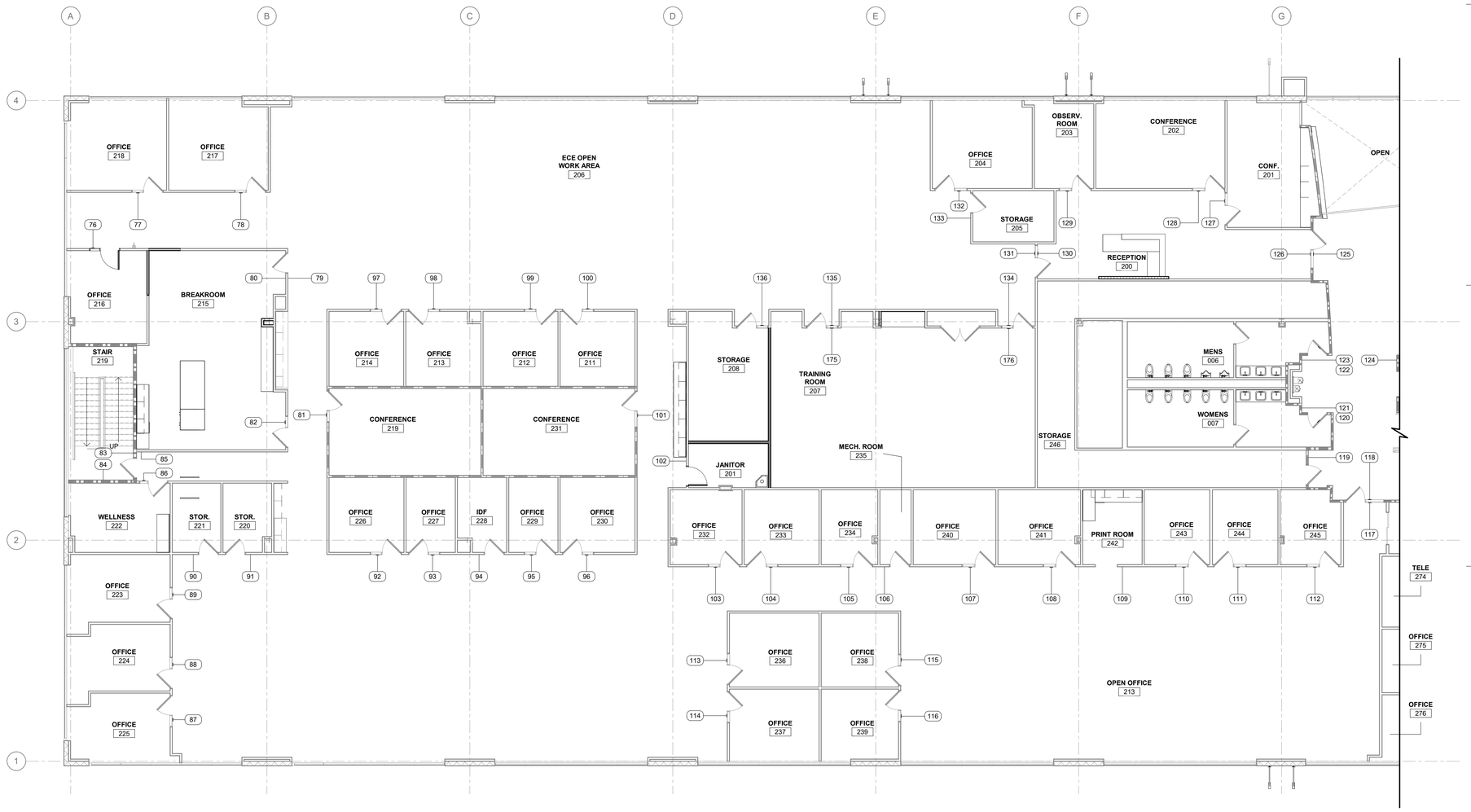
IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

GENERAL SIGNAGE NOTES

1. REFER TO FOLLOWING SHEET FOR SIGNAGE SCHEDULE, GENERAL SIGNAGE NOTES & SIGNAGE LEGEND.

SIGNAGE LEGEND

FLOOR LEVEL
A1.01 — LOCATION OF (N) SIGNAGE
SIGN LOCATION
SECTOR/AREA
S1 — SIGNAGE KEYNOTE



25 PARTIAL SIGNAGE PLAN - SECOND FLOOR - WEST
1/8" = 1'-0"

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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KEY PLAN

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HY Architects Project number: 6013

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1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
PARTIAL SIGNAGE PLAN - SECOND FLOOR - WEST

Client Project Number: N/A

Scale: As indicated
Drawn By: Author
Checked By: Checker
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **SG2.02**
Sheet of

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GENERAL SIGNAGE NOTES

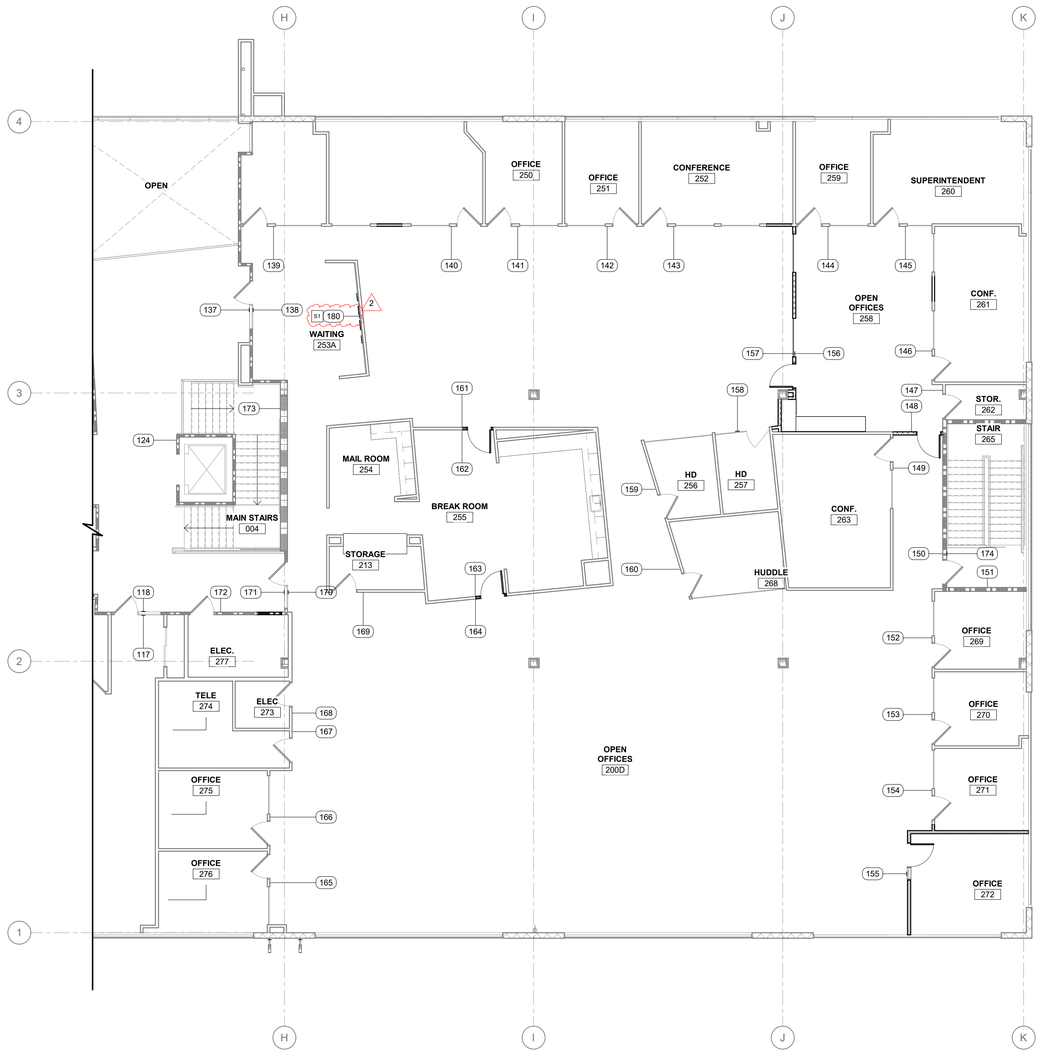
1. REFER TO FOLLOWING SHEET FOR SIGNAGE SCHEDULE, GENERAL SIGNAGE NOTES & SIGNAGE LEGEND.

SIGNAGE KEYNOTES

S1	CAST LETTERING, SEE DETAIL 25/SG9.01

SIGNAGE LEGEND

FLOOR LEVEL
A1.01 — LOCATION OF (N) SIGNAGE
SIGN LOCATION
SECTOR/AREA
S1 — SIGNAGE KEYNOTE



15 PARTIAL SIGNAGE PLAN - SECOND FLOOR -EAST
1/8" = 1'-0"

PCOE GOLD IN EDUCATION

#	Revisions		
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

PLAN CHECK SET
CONSTRUCTION DOCUMENTS

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KEY PLAN

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Project
TENANT IMPROVEMENTS

Sheet Title
PARTIAL SIGNAGE PLAN - SECOND FLOOR - EAST

Client Project Number: N/A

Scale: As indicated
Drawn By: Author
Checked By: Checker
Issue Date: July 21, 2023
Revit Version: 2023

Sheet
SG2.03
Sheet of

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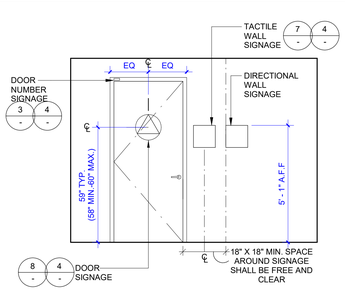
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

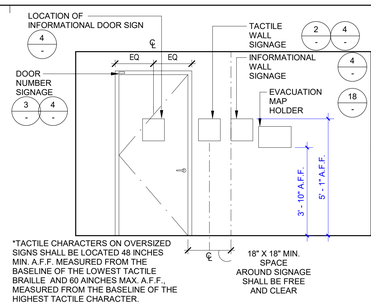
IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

VISUAL CHARACTER HEIGHTS		
HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	**HORIZONTAL VIEWING DISTANCE**	**MINIMUM CHARACTER HEIGHT**
40 INCHES (1015 mm) TO LESS THAN OR EQUAL TO 70 INCHES (1780 MM)	LESS THAN 72 INCHES (1830 mm)	5/8 INCHES (16 mm)
	72 INCHES (1830 mm) AND GREATER	5/8 INCHES (16 mm), PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 72 INCHES (1830 mm)
GREATER THAN 70 INCHES (1780 mm) TO LESS THAN OR EQUAL TO 120 INCHES (3050 mm)	LESS THAN 180 INCHES (4570 mm)	2 INCHES (51 mm)
	180 INCHES (4570 mm) AND GREATER	2 INCHES (51 mm), PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 180 INCHES (4570 mm)
GREATER THAN 120 INCHES (3050 mm)	LESS THAN 21 FEET (6400 mm)	3 INCHES
	21 FEET (6400 mm) AND GREATER	3 INCHES (75 mm), PLUS 1/8 INCH (3.2 mm) PER FOOT (305 mm) OF VIEWING DISTANCE ABOVE 21 FEET (6400 mm)

11 VISUAL CHARACTER HEIGHT1
12" = 1'-0"



6 TOILET RM SIGNAGE MOUNTING HEIGHT
3/8" = 1'-0"



*TACTILE CHARACTERS ON OVERSIZED SIGNS SHALL BE LOCATED 48 INCHES MIN. A.F.F. MEASURED FROM THE BASELINE OF THE LOWEST TACTILE BRAILLE AND 60 AINCHES MAX. A.F.F., MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

1 TYP. SIGNAGE MOUNTING HEIGHT
3/8" = 1'-0"

SYMBOL NOTES:

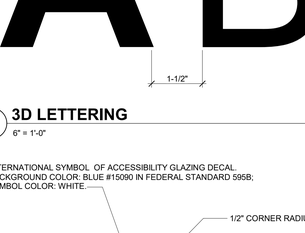
1. PICTOGRAMS, CHARACTERS, AND THEIR BACKGROUNDS SHALL HAVE NON-GLARE FINISH. THESE ELEMENTS SHALL CONTRAST WITH THEIR BACKGROUNDS, WITH EITHER LIGHT ON DARK BACKGROUND OR DARK ON LIGHT BACKGROUND.
2. INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND: COLOR NO. 15090 IN FEDERAL STANDARD 595B.

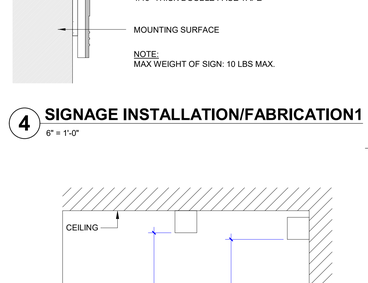
RAISED CHARACTER NOTES:

1. CHARACTERS TO BE 1/32" MIN. ABOVE THEIR BACKGROUND.
2. CHARACTERS TO BE IN UPPER CASE.
3. FONT TO BE SANS SERIF; CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF UNUSUAL FORMS.
4. TEXTS SHALL BE IN HORIZONTAL FORMAT.

BRAILLE NOTES:

1. BRAILLE TO BE DOMED OR ROUNDED IN SHAPE.
2. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORK OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.





12 SYMBOL, CHARACTER & BRAILLE
1 1/2" = 1'-0"

7 TOILET TACTILE SIGN FABRICATION
1 1/2" = 1'-0"

2 TACTILE SIGN, TYP.
1 1/2" = 1'-0"

NOTE: SEE DETAIL 4/- FOR INSTALLATION OF SIGNAGE.

13 TACTILE SIGNAGE CHARACTERS
12" = 1'-0"

8 TOILET CIRCLE-TRIANGLE DOOR SIGN
1" = 1'-0"

3 DOOR NUMBER SIGN, TYP.
3" = 1'-0"

14 VISUAL SIGNAGE CHARACTERS
12" = 1'-0"

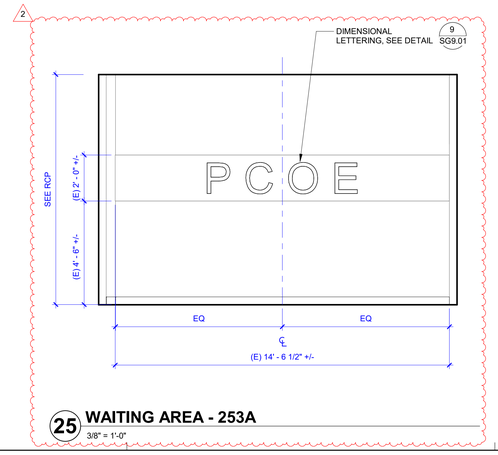
9 3D LETTERING
6" = 1'-0"

4 SIGNAGE INSTALLATION/FABRICATION1
6" = 1'-0"

16 SYMBOL OF ACCESSIBILITY
1 1/2" = 1'-0"

15 ISA DECAL
3" = 1'-0"

5 CEILING & WALL SIGN MTG. HEIGHTS
3/8" = 1'-0"



25 WAITING AREA - 253A
3/8" = 1'-0"

PCOE
GOLD IN EDUCATION

Revisions			
Delta	Date	Revisions	By
2	8/29/2023	ADDENDUM NO.2	

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CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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Project
TENANT IMPROVEMENTS

Sheet Title
SIGNAGE DETAILS

Client Project Number: N/A

Scale: As indicated
Drawn By: JF/SH
Checked By: STANDARDS COMMITTEE
Issue Date: July 21, 2023
Revit Version: 2023

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8/31/2023 8:12:43 PM C:\Users\CNguyen\Documents\6013 PCOE 1400 Stanford Ranch_Central_23 recover_cnguyenQL584.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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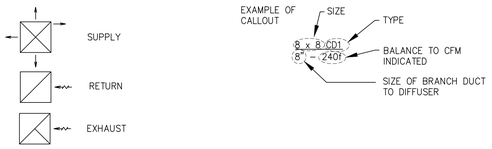
DIFFUSER, REGISTER, & GRILLE SCHEDULE



SYMBOL	DESCRIPTION SHALL BE EQUAL TO:
R1	RETURN REGISTER – 1 "TITUS" MODEL 50F, ½"x½"x1" EGG–CRATE GRID, ALUMINUM CONSTRUCTION, FRAME TYPE 3 FOR T–BAR INSTALLATION, WHITE PAINT, SIZE AS INDICATED ON DRAWINGS.
R2	RETURN REGISTER – 2 "TITUS" MODEL 50F, ½"x½"x1" EGG–CRATE GRID, ALUMINUM CONSTRUCTION, FRAME TYPE 1 FOR SURFACE MOUNTING, WHITE PAINT, SIZE AS INDICATED ON DRAWINGS.
ER1	EXHAUST REGISTER – 1 SAME AS R1
ER2	EXHAUST REGISTER – 2 SAME AS R2
LD1	LINER DIFFUSER – 1 "EMI" MODEL VSD, STANDARD CAPACITY, HORIZONTAL AIRFLOW WITH PLENUM. LENGTH AS INDICATED ON DRAWINGS. INSTALLED ON T–BAR CEILING PER MANUFACTURE'S GUIDELINE.
LD2	LINER DIFFUSER – 2 "EMI" MODEL VSD, HIGH CAPACITY, HORIZONTAL AIRFLOW WITH PLENUM. LENGTH AS INDICATED ON DRAWINGS. INSTALLED ON T–BAR CEILING PER MANUFACTURE'S GUIDELINE.
LD3	LINER DIFFUSER – 3 "EMI" MODEL VSD, STANDARD CAPACITY, HORIZONTAL AIRFLOW WITH PLENUM. LENGTH AS INDICATED ON DRAWINGS. PROVIDE A BEAUTY RING FOR HARD–LID CEILING INSTALLATION.
LD4	LINER DIFFUSER – 4 "EMI" MODEL VSD, HIGH CAPACITY, HORIZONTAL AIRFLOW WITH PLENUM. LENGTH AS INDICATED ON DRAWINGS. PROVIDE A BEAUTY RING FOR HARD–LID CEILING INSTALLATION.

DUCT INSULATION NOTES

ALL NEW SUPPLY/RETURN DUCTWORK SHALL BE INSULATED WITH 2" THICK 1.0 PCF FIBERGLASS INSULATION (INSTALLED VALUE R–6 MINIMUM) W/ FOIL SCRIM JACKET.

CONTROL NOTES

TEMPERATURE CONTROL SHALL BE I–VU TO MATCH EXISTING. NEW CONTROL SEQUENCE IS TO BE CAPABLE WITH THE EXISTING AIR HANDLER CONTROL MODES:

COLD DECK: COOLING 33,500 CFM SA AND 10,500 CFM OA WITH HEAT WHEEL HEAT RECOVERY. VENTILATION AIR ONLY COMES FROM COLD DECK

HOT/COLD DECK: IN SUMMER TEMPERATURES THE DECK CONVERTS TO COOLING MODE TO PROVIDE 45°F AIR (RESETTABLE) OR NEUTRAL AIR (AIR THAT IS BEEN RECYCLED AND FILTERED BUT NOT COOLED OR HEATED). IN WINTER TEMPERATURES, THE DECK CONVERTS TO HEATING DECK AND PROVIDES HEATED AIR. SUPPLY AIR TEMPERATURE IS RESETTABLE FROM FULL HEATING TO NEUTRAL AIR.

BMS CONTROL OF THE ENTIRE BUILDING IS BEING UPDATED IN ANOTHER PROJECT. (E)I–VU T–STATS CAN BE REUSED. REFER TO THE FLOOR PLANS FOR (E) AND (N)T–STAT LOCATION. (N)STATS AND CONTROLS ARE I–VU. WHERE (N)VAV BOX IS INSTALLED, PROVIDE (N)I–VU CONTROLS MATCHING THE NEWLY REPLACED CONTROLS. CONTACT JEFF @ AUTOMATED ELECTRIC (916–934–6306)

MECHANICAL ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AB.C, OH	ABOVE CEILING, OVERHEAD
AC	AIR CONDITIONING
AD	ACCESS DOOR
ADA	AMERICANS W/ DISABILITIES ACT
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICALLY LINED
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BR	BRANCH
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM, f	CUBIC FEET OF AIR PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CO	CLEANOUT
CONC.	CONCRETE
CONN.	CONNECT
CR	CONDENSATE RETURN (STEAM)
CS	CURRENT SENSOR
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CVB	CONSTANT VOLUME BOX
CW	COLD WATER
DB	DRY BULB
DF	DOUGLAS FIR
DIA, ø	DIAMETER
DSP	DUCT STATIC PRESSURE SENSOR
EA, OA, RA, SA	EXHAUST, OUTSIDE, RETURN & SUPPLY AIR
E.C.	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FA	FACE AREA (SQUARE FEET)
FC	FLEXIBLE CONNECTION
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GALV.	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
HP	HORSE POWER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HZ	FREQUENCY (HERTZ)
LBS	POUNDS
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
(N) (E)	NEW, EXISTING
N.C.	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OP	OPERATING
PH	PHASE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTDF	PRESSURE TREATED DOUGLAS FIR
P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
REF	ROOF EXHAUST FAN
REQ'D	REQUIRED
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION,
SM	SHEET METAL
SMS	SHEET METAL SCREWS
ST SMS	SELF TAPPING SHEET METAL SCREW
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
STL	STEEL
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
THK	THICK
TR	TO REMAIN
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UG, UF	UNDERGROUND, UNDERFLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WOG	WATER OIL GAS PRESSURE RATING
WP	WATER PRESSURE
WT, AT	WATERTIGHT, AIRTIGHT

APPLICABLE CODES

CODES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, BUILDING STANDARDS:

2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2022 EDITION OF THE CALIFORNIA PLUMBING CODE.
2022 EDITION OF THE CALIFORNIA ENERGY CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE, CR.

COMPLIANCE NOTES

MECHANICAL AND PLUMBING EQUIPMENT SHALL CONFORM TO THE FOLLOWING AS STATED IN THE ENERGY EFFICIENCY STANDARDS, 2022.

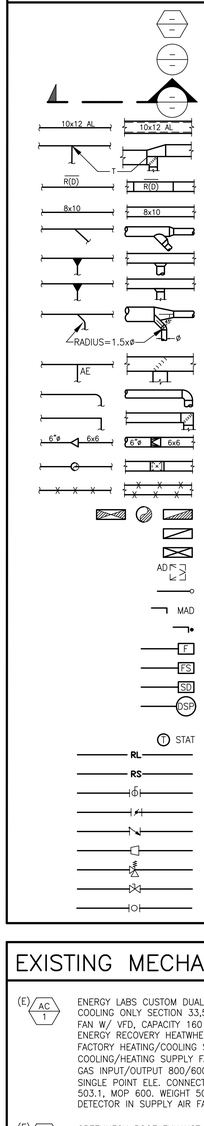
1. BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS:

110.1 APPLIANCES REGULATED BY THE APPLIANCE EFFICIENCY STANDARDS:
110.2 HVAC EQUIPMENT EFFICIENCY AND PACKAGED CONTROLS:
110.3 SERVICE WATER HEATING EFFICIENCY AND CONTROLS:
110.4 POOL AND SPA HEATING EFFICIENCY AND CONTROLS:
110.5 RESTRICTIONS ON PILOT LIGHTS:

2. BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTIONS.

120.1 REQUIREMENTS FOR VENTILATION:
120.2 REQUIRED CONTROLS FOR HVAC SYSTEMS:
120.2 (H) DEMAND SHED CONTROLS.
120.2 (I) ECONOMIZER FAULT DETECTION & DIAGNOSTIC.
120.3 REQUIREMENTS FOR PIPE INSULATION:
120.4 REQUIREMENTS FOR DUCT INSULATION:

MECHANICAL LEGEND



UNIT TYPE
UNIT NUMBER

DETAIL NUMBER
SHEET NUMBER ON WHICH DETAIL IS FOUND

SECTION NUMBER
SHEET ON WHICH SECTION IS FOUND

ACOUSTICALLY LINED DUCT – DIMENSIONS ARE OUTSIDE

BRANCH TAKE–OFF WITH SPLITTER DAMPER & W/ THROAT SIZE AS INDICATED. TRANSITION TO DUCT SIZES SHOWN.

DUCT RISE (DROP) IN DIRECTION OF AIR FLOW

DUCT – WIDTH x DEPTH

LATERAL WITH CONICAL TRANSITION TO DUCT SIZES INDICATED

CONICAL TEE FROM RECTANGULAR TO ROUND BRANCH

45° ENTRY TEE, RECTANGULAR BRANCH, RECTANGULAR MAIN

45° WYE, CONICAL MAIN AND BRANCH WITH 45° ELBOW, BRANCH 90° TO MAIN

TEE WITH ADJUSTABLE EXTRACTOR. RECTANGULAR MAIN, RECTANGULAR BRANCH

RADIUS ELL. SEE SPECS.

SQUARE ELL WITH TURNING VANES

TRANSITION ROUND TO RECTANGULAR

VERTICAL DUCT RISE OR DROP

DUCTS, PIPES, OR EQUIPMENT TO BE REMOVED

DUCT DROP OR RISE THRU ROOF OR FLOOR

RETURN, OUTSIDE, OR EXHAUST AIR DUCT

SUPPLY DUCT

ACCESS DOOR

AUTOMATIC CONTROL DAMPER

MANUAL AIR DAMPER

VOLUME DAMPER WITH REMOTE BALANCING DEVICE

FIRE DAMPER

FIRE SMOKE DAMPER

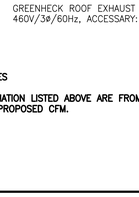
SMOKE DETECTOR

DUCT STATIC PRESSURE SENSOR

THERMOSTAT

REFRIGERANT LIQUID

REFRIGERANT SUCTION



EXISTING MECHANICAL EQUIPMENT SCHDULE

(E) AC 1 — ENERGY LABS CUSTOM DUAL FAN, DUAL DUCT CHANGOVER SYSTEM. COOLING ONLY SECTION 33,500 CFM @ 2.0 ESP, 46.97 BHP, 50 HP, COOLING ONLY SUPPLY FAN W/ VFD, CAPACITY 160 TONS, SENSIBLE 1,728 MBH. ACCESSORIES: 100% ECONOMIZZER, ENERGY RECOVERY HEATWHEEL. FACTORY HEATING/COOLING SECTION 13,500 CFM @1.75 ESP, 18.13 BHP, 20 HP COOLING/HEATING SUPPLY FAN W/ VFD. CAPACITY 50 TONS, SENSIBLE 540 MBH. NATURAL GAS INPUT/OUTPUT 800/600 MBH. ACCESSORIES: EVAPORATIVE CONDENSING, ROOF CURB, SINGLE POINT ELE. CONNECTION W/ NON–FUSED DISCONNCT. POWER 460V/3ø/60HZ, MCA 503.1, MOP 600. WEIGHT 50,000 LBS. EER10.7. AFUE 80%. OSA SET TO 10,500 CFM. SMOKE DETECTOR IN SUPPLY AIR FAN SYSTEM.

(E) REF 1 — GREENHECK ROOF EXHAUST FAN, MODEL GB–200–15, 4740 CFM @ 1.0 SP, 1½ HP, 460V/3ø/60Hz, ACCESSORY: ROOF CURB, GRAVITY BACK DRAFT DAMPER, DISCONNECT SWITCH.

NEW NOTES

1. INFORMATION LISTED ABOVE ARE FROM RECORD DRAWINGS. EQUIPMENT TO BE REUSED AND REBALANCED TO NEW PROPOSED CFM.

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 7:42pm
Project Drafter:	-	Login: GYang	

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HY Architects Project number: 6013

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Project
TENANT IMPROVEMENTS

Sheet Title
MECHANICAL LEGEND, NOTES AND SCHEDULES

Client Project Number: N/A

Scale: As indicated
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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VAV BOX SCHEDULE (2nd FLOOR WEST)

SYMBOL	MANUFACTURER	MODEL	INLET SIZE	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	MAX. APD (IN. WG.)	TYPE	REMARKS
(E) VAV 209	ENVIRO-TEC	SGX	6	310	–	60	--	COLD DECK	(E)VAV BOX
		SGX	6	180	180	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 210	ENVIRO-TEC	SGX	8	445	–	60	--	COLD DECK	(E)VAV BOX
		SGX	6	260	260	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 216	ENVIRO-TEC	SGX	6	435	–	120	--	COLD DECK	(E)VAV BOX
(E) VAV 217	ENVIRO-TEC	SGX	10	900	–	250	--	COLD DECK	(E)VAV BOX
(E) VAV 223	ENVIRO-TEC	SGX	8	200	–	40	--	COLD DECK	(E)VAV BOX
(E) VAV 224	ENVIRO-TEC	SGX	10	800	–	200	--	COLD DECK	(E)VAV BOX
(E) VAV 225	ENVIRO-TEC	SGX	10	800	–	200	--	COLD DECK	(E)VAV BOX

NOTES:

1. BALANCE AIRFLOWS OF ALL (E)VAV BOXES LISTED ABOVE TO PROPOSED VALUES. EXACT AIRFLOWS OF REGISTERS SEE FLOOR PLAN.

2. EXISTING VAV BOXES WITHOUT MODIFICATION AND AIRFLOW REBALANCING ARE NOT LISTED HERE. INFORMATION REFER TO FLOOR PLANS. SOME OF THEM ARE NOT SHOWING DUE TO LACK OF AS-BUILTS IN SOME AREAS.

VAV BOX SCHEDULE (2nd FLOOR EAST)

SYMBOL	MANUFACTURER	MODEL	INLET SIZE	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	MAX. APD (IN. WG.)	TYPE	REMARKS
(E) VAV 2-4	ENVIRO-TEC	SGX	–	300	–	60	--	COLD DECK	(E)VAV BOX
		SGX	–	200	200	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 2-6	ENVIRO-TEC	SGX	–	350	–	80	--	COLD DECK	(E)VAV BOX
		SGX	–	210	210	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 2-8	ENVIRO-TEC	SGX	–	540	–	110	--	COLD DECK	(E)VAV BOX
		SGX	–	395	395	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 2-9	ENVIRO-TEC	SGX	–	930	–	190	--	COLD DECK	(E)VAV BOX
(E) VAV 2-11	ENVIRO-TEC	SGX	–	245	–	50	--	COLD DECK	(E)VAV BOX
		SGX	–	195	195	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 2-12	ENVIRO-TEC	SGX	–	190	–	40	--	COLD DECK	(E)VAV BOX
		SGX	–	140	140	0	--	HOT/COLD DECK	(E)VAV BOX
(N) VAV 2-16	ENVIRO-TEC	SGX	6	200	–	40	--	COLD DECK	(N)VAV BOX SERVING ROOM 249
		SGX	6	150	150	0	--	HOT/COLD DECK	
(N) VAV 2-17	ENVIRO-TEC	SGX	6	200	–	40	--	COLD DECK	(N)VAV BOX SERVING ROOM 252
		SGX	6	150	150	0	--	HOT/COLD DECK	

NOTES:

1. BALANCE AIRFLOWS OF ALL (N) AND (E)VAV BOXES LISTED ABOVE TO PROPOSED VALUES. EXACT AIRFLOWS OF REGISTERS SEE FLOOR PLAN.

2. EXISTING VAV BOXES WITHOUT MODIFICATION AND AIRFLOW REBALANCING ARE NOT LISTED HERE. INFORMATION REFER TO FLOOR PLANS. EXACT LOCATIONS AND DUCTWORK ROUTING ARE NOT ACCURATE DUE TO LACK OF AS-BUILTS.

VAV BOX SCHEDULE (1st FLOOR WEST)

SYMBOL	MANUFACTURER	MODEL	INLET SIZE	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	MAX. APD (IN. WG.)	TYPE	REMARKS
(E) VAV 101	TITUS	ESV-1000	8	800	600	300	--	COLD DECK W/10KW ELEC HEATER	(E)VAV BOX
(E) VAV 102	ENVIRO-TEC	SGX	6	250	–	80	--	COLD DECK	(E)VAV BOX
		SGX	6	200	200	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 103	ENVIRO-TEC	SGX	8	500	–	120	--	COLD DECK	(E)VAV BOX
		SGX	6	200	200	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 104	ENVIRO-TEC	SGX	8	520	–	125	--	COLD DECK	(E)VAV BOX
		SGX	6	440	440	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 104a	ENVIRO-TEC	SGX	6	390	–	100	--	COLD DECK	(E)VAV BOX
		SGX	6	330	330	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 105	ENVIRO-TEC	SGX	6	240	–	80	--	COLD DECK	(E)VAV BOX
		SGX	6	160	160	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 106	ENVIRO-TEC	SGX	8	545	–	120	--	COLD DECK	(E)VAV BOX
		SGX	6	435	435	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 107	ENVIRO-TEC	SGX	6	335	–	100	--	COLD DECK	(E)VAV BOX
		SGX	6	320	320	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 108	ENVIRO-TEC	SGX	6	230	–	40	--	COLD DECK	(E)VAV BOX
		SGX	6	200	200	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 109	ENVIRO-TEC	SGX	8	545	–	120	--	COLD DECK	(E)VAV BOX
		SGX	6	435	435	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 110	ENVIRO-TEC	SGX	8	615	–	140	--	COLD DECK	(E)VAV BOX
		SGX	8	530	530	0	--	HOT/COLD DECK	(E)VAV BOX
(E) VAV 111	ENVIRO-TEC	SGX	8	425	–	90	--	COLD DECK	(E)VAV BOX
(E) VAV 113	ENVIRO-TEC	SGX	6	300	–	80	--	COLD DECK	(E)VAV BOX
(E) VAV 114	ENVIRO-TEC	SGX	6	300	–	80	--	COLD DECK	(E)VAV BOX
(E) VAV 115	ENVIRO-TEC	SGX	6	300	–	80	--	COLD DECK	(E)VAV BOX
(E) VAV 116	ENVIRO-TEC	SGX	6	345	–	80	--	COLD DECK	(E)VAV BOX
(E) VAV 117	ENVIRO-TEC	SGX	6	320	–	80	--	COLD DECK	(E)VAV BOX
(E) VAV 118	ENVIRO-TEC	SGX	8	720	–	150	--	COLD DECK	(E)VAV BOX
(E) VAV 119	ENVIRO-TEC	SGX	8	720	–	150	--	COLD DECK	(E)VAV BOX
(E) VAV 120	ENVIRO-TEC	SGX	8	600	–	140	--	COLD DECK	(E)VAV BOX
(E) VAV 121	ENVIRO-TEC	SGX	10	795	–	220	--	COLD DECK	(E)VAV BOX
(E) VAV 122	ENVIRO-TEC	SGX	8	200	–	40	--	COLD DECK	(E)VAV BOX
(E) VAV 126	ENVIRO-TEC	SGX	8	720	–	150	--	COLD DECK	(E)VAV BOX
(E) VAV 127	ENVIRO-TEC	SGX	8	720	–	150	--	COLD DECK	(E)VAV BOX
(N) VAV 123	ENVIRO-TEC	SGX	8	400	–	80	0.5"	COLD DECK	(N)VAV BOX SERVING ROOM 102B
(N) VAV 124	ENVIRO-TEC	SGX	4	75	–	20	0.5"	COLD DECK	(N)VAV BOX SERVING ROOM 105
(N) VAV 125	ENVIRO-TEC	SGX	6	300	–	80	0.5"	COLD DECK	(N)VAV BOX SERVING ROOM 102A
(N) VAV 112	ENVIRO-TEC	SGX	6	300	–	80	0.5"	COLD DECK	(N)VAV BOX SERVING ROOM 102A

NOTES:

1. BALANCE AIRFLOWS OF ALL (N) AND (E)VAV BOXES LISTED ABOVE TO PROPOSED VALUES. EXACT AIRFLOWS OF REGISTERS SEE FLOOR PLAN.

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 2:42pm
Project Drafter:	-	Login:	GYang

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REGISTERED PROFESSIONAL ENGINEER — JOSEPH W. TROSCINSKI — No. M-026053 — Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL SCHEDULES

Client Project Number: N/A

Scale: As indicated
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

Sheet

M0.02

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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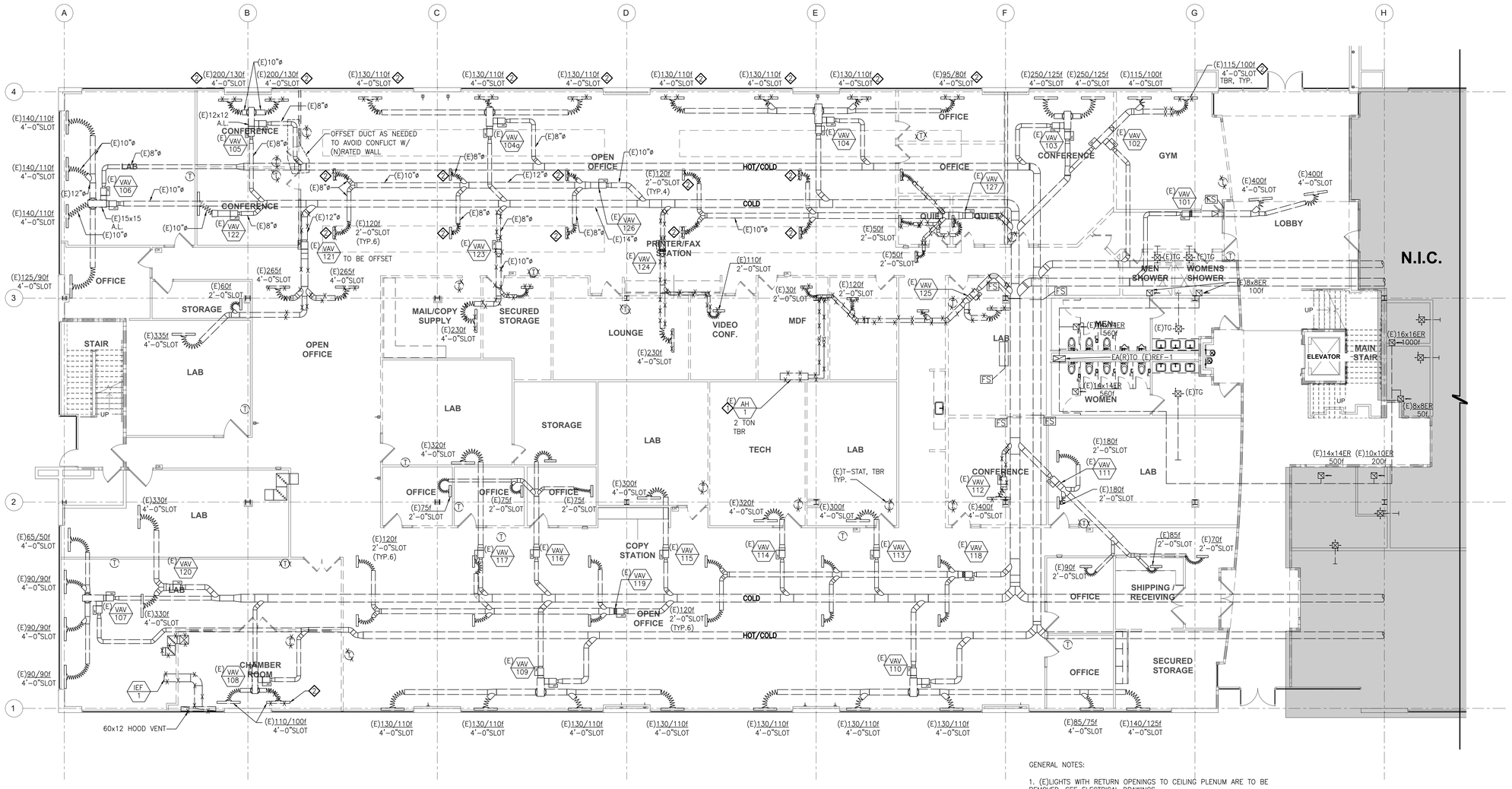

A MECHANICAL FIRST FLOOR PARTIAL DEMOLITION FLOOR PLAN – WEST

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

GENERAL NOTES:

1. (E)LIGHTS WITH RETURN OPENINGS TO CEILING PLENUM ARE TO BE REMOVED, SEE ELECTRICAL DRAWINGS.

2. CFM'S LISTED ON THE PLAN ARE FROM RECORD DRAWINGS AND ARE FOR REFERENCE ONLY.

3. OFFSET DUCTWORK AND VAV BOX WHERE NEEDED TO AVOID CONFLICT W/ (N)WALL.

KEY NOTES:

1. REMOVE ENTIRE SYSTEM OF (E)MINI SPLIT SYSTEM IN BUILDING AND ON ROOF, INCLUDING BUT NOT LIMIT TO: FAN COILS, CONDENSING UNIT (ON ROOF), REFRIGERANT PIPING, CONDENSATE DRAIN, WIRING AND T–STAT. WHEN CONDENSING UNIT ON ROOF IS REMOVED, SEAL THE BOLT HOLES ON CURBS, COVER THE REFRIGERANT PIPING PENETRATION ROOF CAP WITH GALV. SHEET METAL AND SEAL.

2. FIELD VERIFY (E)LINEAR DIFFUSER CONDITIONS. IF THE DIFFUSER AND PLENUM ARE IN GOOD CONDITION WITHOUT ANY LEAKAGE, IT IS ACCEPTABLE TO REUSE AND REINSTALL (E)LD ON NEW CEILING INSTEAD OF USING (N)LD.

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager: JT | Plot Date: Aug 31, 2023 - 2:42pm
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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL FIRST FLOOR PARTIAL DEMOLITION PLAN - WEST

Client Project Number: N/A

Scale: As indicated
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

Sheet **M1.11**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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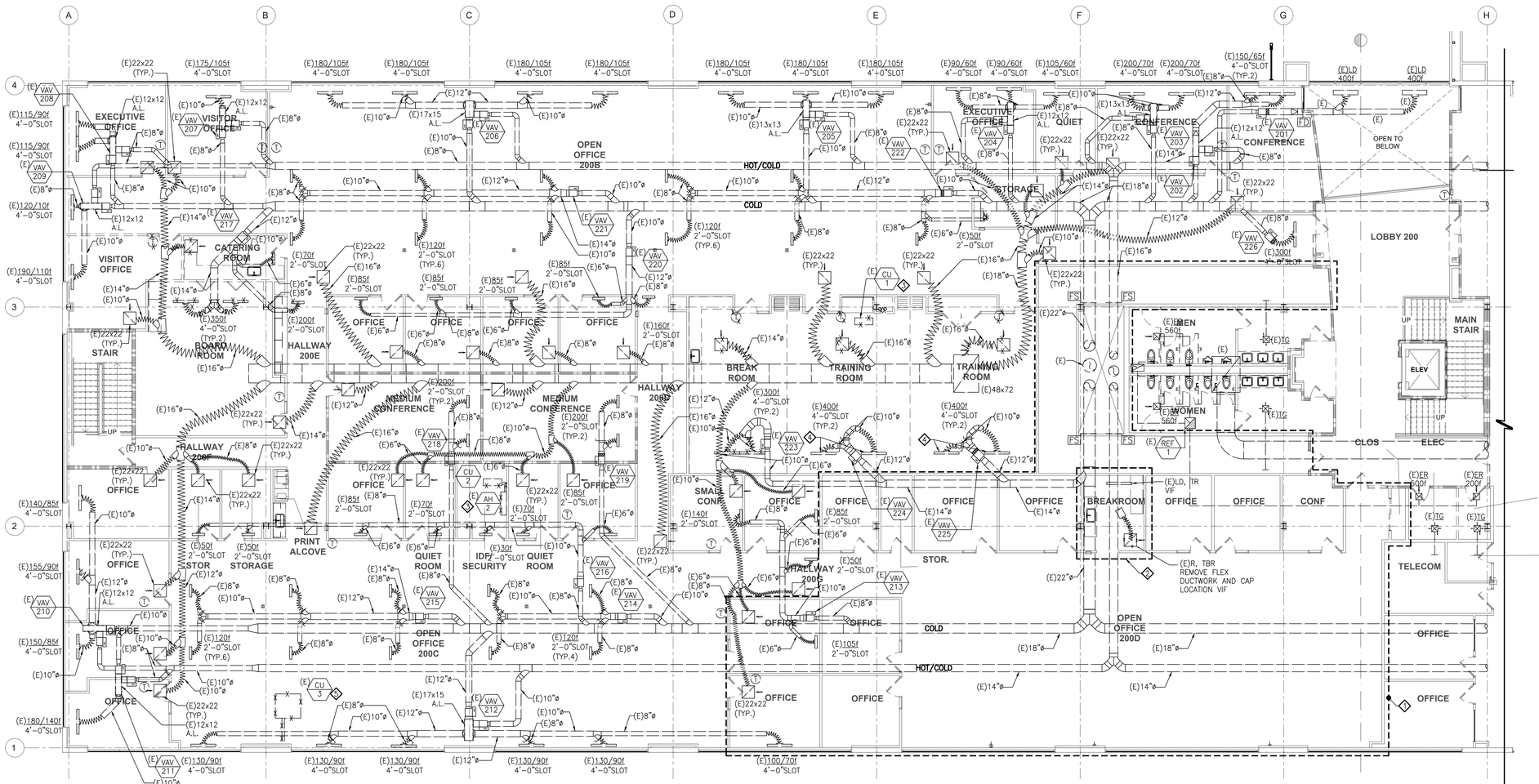

MECHANICAL SECOND FLOOR PARTIAL DEMOLITION FLOOR PLAN – WEST

A — SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. CFM'S LISTED ON THE PLAN ARE FROM RECORD DRAWINGS AND ARE FOR REFERENCE ONLY.

KEY NOTES

1. MECHANICAL RECORD DRAWINGS OF THIS AREA ARE MISSING. CONTRACTOR TO FIELD VERIFY HVAC SYSTEM CONDITIONS OF THIS AREA AND CREATE A SHOP DRAWINGS. NO MECHANICAL DEMOLITION SCOPE IN THIS AREA EXCEPT REMOVING RETURN REGISTER IN BREAK ROOM, SEE KEY NOTE 2. SUBMIT SHOP DRAWINGS TO ENGINEER.
2. REMOVE (E)RETURN GRILLE IN THIS ROOM AND CAP RETURN DUCTWORK. (E)SUPPLY REGISTER WITHIN THIS ROOM IS TO REMAIN.
3. REMOVE ENTIRE SYSTEM OF (E)MINI SPLIT SYSTEM, INCLUDING BUT NOT LIMIT TO: FAN COILS, CONDENSING UNIT (ON ROOF), REFRIGERANT PIPING, CONDENSATE DRAIN, WIRING AND T-STAT. WHEN CONDENSING UNIT ON ROOF IS REMOVED, SEAL THE BOLT HOLES ON CURBS, COVER THE REFRIGERANT PIPING PENETRATION ROOF CAP WITH GALV. SHEET METAL AND SEAL.
4. FIELD VERIFY EXACT LOCATIONS OF LD. IF LOCATED ON DEMOED CEILING, TEMPORARY REMOVE AND REINSTALL AS NECESSARY
5. (E)CU-3 ON ROOM IS SERVING LAB EQUIPMENT (TO BE REMOVED) ON 1ST FLOOR. REMOVE ENTIRE COOLING SYSTEM, INCLUDING BUT NOT LIMIT TO: CONDENSING UNIT (ON ROOF), REFRIGERANT PIPING, WIRING. WHEN CONDENSING UNIT ON ROOF IS REMOVED, SEAL THE BOLT HOLES ON CURBS, COVER THE REFRIGERANT PIPING PENETRATION ROOF CAP WITH GALV. SHEET METAL AND SEAL.

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 2:42pm
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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL SECOND FLOOR PARTIAL DEMOLITION PLAN - WEST

Client Project Number: N/A

Scale:	As indicated
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Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **M1.21**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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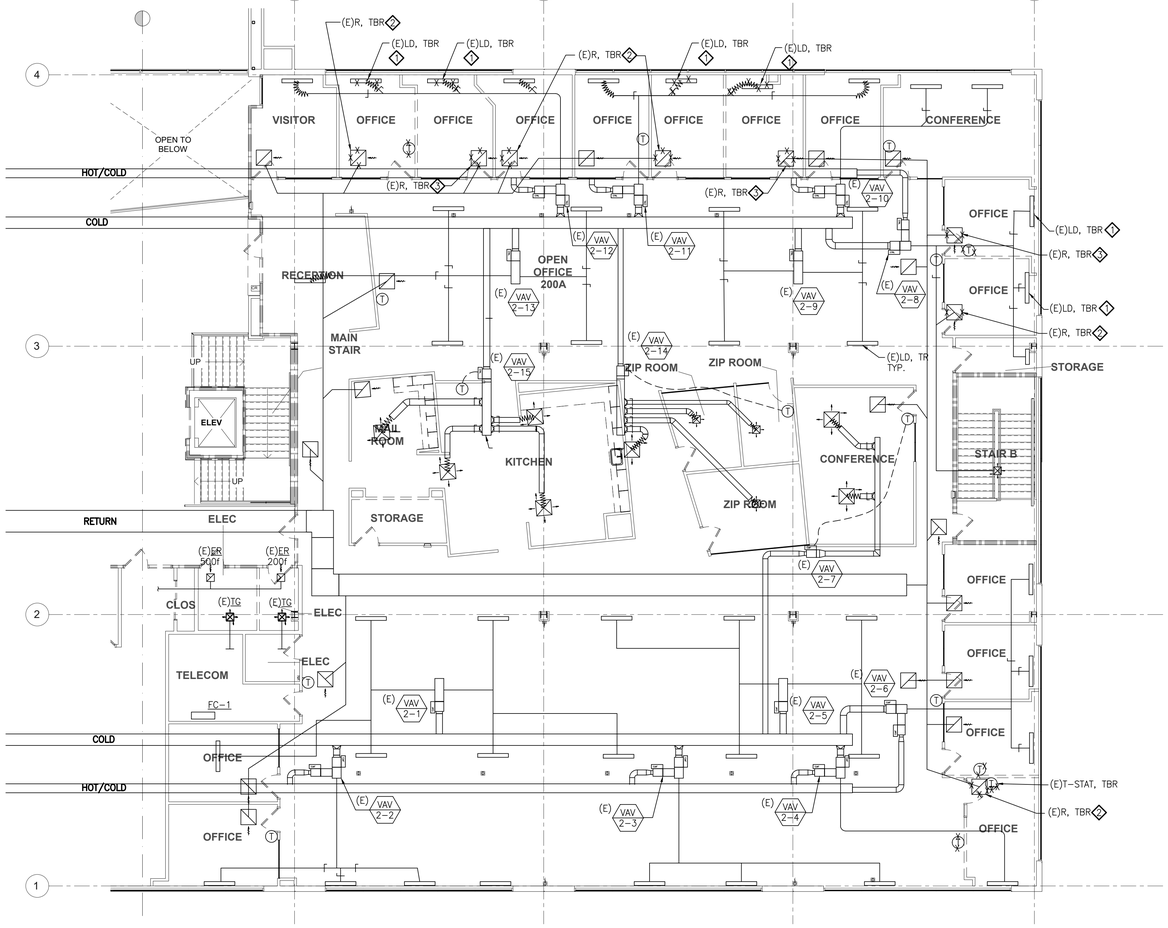

A MECHANICAL SECOND FLOOR PARTIAL DEMOLITION FLOOR PLAN – EAST

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

GENERAL NOTES:

1. ALL RETURN GRILLES ARE CONNECTED TO RETURN DUCTWORK, NOT OPEN TO CEILING. NO CEILING PLENUM ON 2ND FLOOR.

2. THERE IS LIMITED AS-BUILT INFORMATION FOR THIS AREA. DUCTWORK ROUTING AND VAV BOX LOCATIONS ARE ESTIMATED BASED ON RECORD DRAWINGS AND INFORMATION FROM SITE VISIT. CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS, DRAW SHOP DRAWINGS AND SUBMIT TO ENGINEER.

KEY NOTES

1. FIELD VERIFY (E)LINEAR DIFFUSER CONDITIONS. IF THE DIFFUSER AND PLENUM ARE IN GOOD CONDITION WITHOUT ANY LEAKAGE, IT IS ACCEPTABLE TO REUSE AND REINSTALL (E)LD ON NEW CEILING INSTEAD OF USING (N)LD.
2. DISCONNECT DUCTWORK AND RECONNECT TO (N)R AT SAME OR NEARBY LOCATION.
3. CUTBACK RETURN DUCTWORK AND CAP. FIELD VERIFY EXACT DUCT ROUTING.

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL SECOND FLOOR PARTIAL DEMOLITION PLAN - EAST

Client Project Number: N/A

Scale:	As indicated
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet

M1.22

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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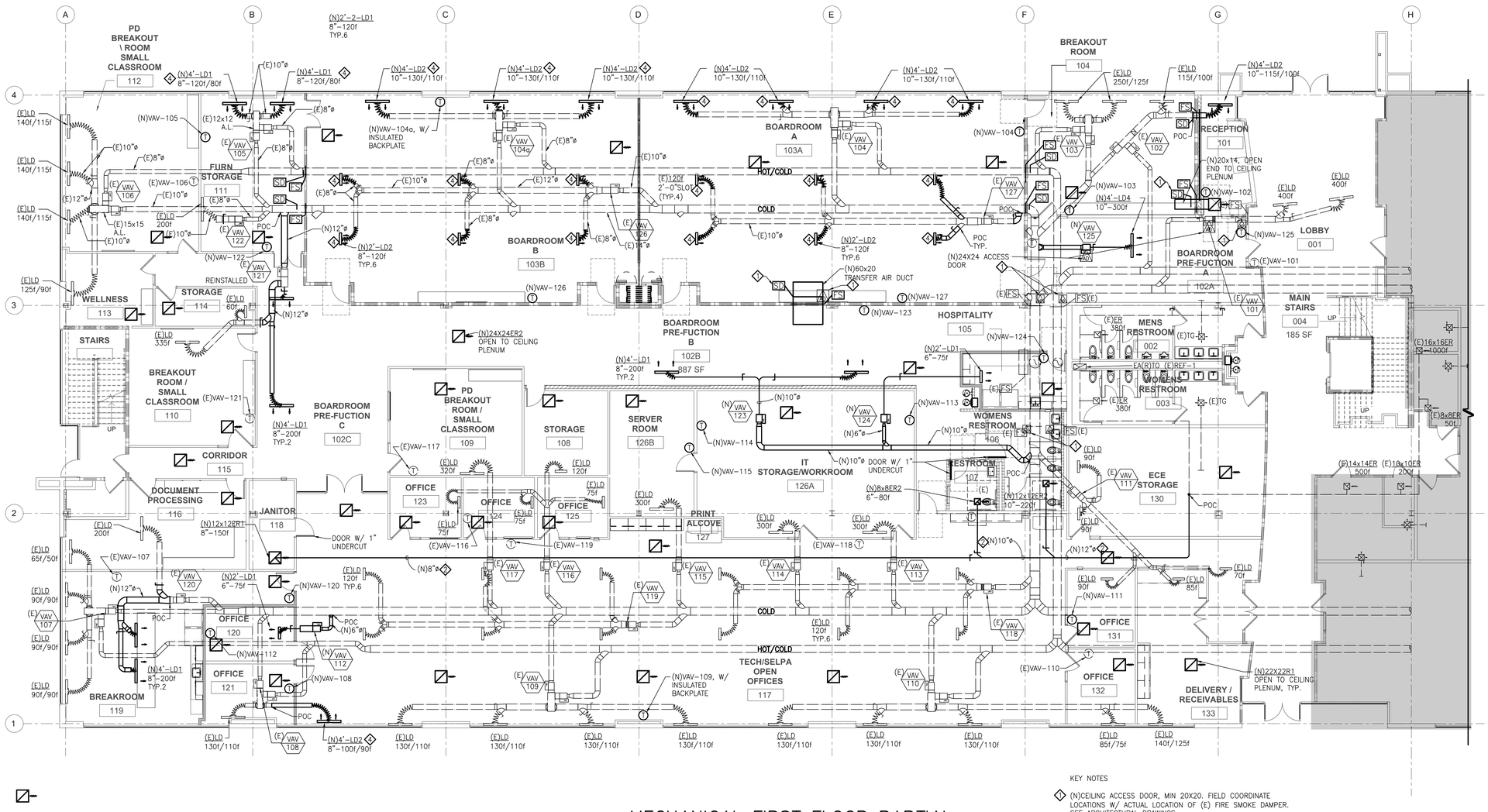

MECHANICAL FIRST FLOOR PARTIAL REMODEL FLOOR PLAN – WEST

A — SCALE: 1/8" = 1'-0"

KEY NOTES

1. (N)CEILING ACCESS DOOR, MIN 20X20. FIELD COORDINATE LOCATIONS W/ ACTUAL LOCATION OF (E) FIRE SMOKE DAMPER. SEE ARCHITECTURAL DRAWINGS.
2. PROVIDE NECESSARY OFFSET AND TRANSIT AS NECESSARY FOR THE (N)EXHAUST DUCTWORK. USE RECTANGULAR DUCT WITH SAME SECTIONAL AREA AS NECESSARY.
3. ZERO VELOCITY SMOKE DETECTOR
4. IT IS ACCEPTABLE TO REUSE AND REINSTALL (E)LD ON NEW CEILING INSTEAD OF USING (N)LD IF THE (E)DIFFUSER AND PLENUM ARE IN GOOD CONDITION WITHOUT ANY LEAKAGE. PROVIDE (N)INSULATION ON PLENUM. (E)LD INFORMATION SEE PLAN ON M1.11.

GENERAL NOTES

1. BALANCE AIRFLOWS OF ALL (N) AND (E) SUPPLY REGISTERS WITHIN THE SPACE TO PROPOSED VALUES LISTED ON PLAN. FOR REGISTERS SERVED BY DUAL DUCT VAV BOX, BALANCE COOLING ONLY BRANCH AND HEATING/PEAK COOLING BRANCH SEPARATELY.
2. BALANCE ALL (E) AND (N) EXHAUST REGISTERS SERVED BY (E)REF-1 TO PROPOSED VALUES. REFER TO FLOOR PLAN ON THIS SHEET AND ON M2.21. REPLACE BELT AND SHEAVE OF (E)REF-1 ON ROOF AS NECESSARY.
3. IF (E)MANUAL AIR DAMPER SHOWN ON PLANS (FROM RECORD DRAWINGS) DOES NOT EXIST, INSTALL NEW DAMPER FOR BALANCING.
4. BMS CONTROL OF THE ENTIRE BUILDING IS BEING UPDATED IN ANOTHER PROJECT. (E)-VU T-STATS CAN BE REUSED. REFER TO THE FLOOR PLANS FOR (E) AND (N)T-STAT LOCATION. (N)STATS AND CONTROLS ARE I-VU. WHERE (N)VAV BOX IS INSTALLED, PROVIDE (N)I-VU CONTROLS MATCHING THE NEWLY REPLACED CONTROLS. CONTACT JEFF @ AUTOMATED ELECTRIC (916-934-6306)
5. ALL WIRING TO BE PLENUM RATED.

EXAMPLE OF CALLOUT ON (E)REGISTERS:

(E)LD 200f/150f

(FOR THIS EXAMPLE, TOTAL COOLING IS 200+150=350f AT PEAK CONDITION)

- BALANCE HEATING/PEAK COOLING BRANCH AIRFLOW TO CFM INDICATED, ONLY FOR SUPPLY REGISTERS SERVED BY DUAL DUCT VAV BOX
- BALANCE COOLING ONLY BRANCH AIRFLOW TO CFM INDICATED

(N)22X22R1, OPEN TO CEILING PLENUM UNLESS NOTED.

DIRECTION OF AIRFLOW OF LINEAR DIFFUSER

DETAIL NOTES

1. VAV MOUNTING DETAIL REFER TO A/M5.01
2. REGISTER MOUNTING DETAIL REFER TO B,C,H/M5.01
3. DUCT SUPPORT DETAIL REFER TO F,G/M5.01
4. FIRE SMOKE DAMPER MOUNTING DETAIL REFER TO D/M5.02

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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CONSTRUCTION DOCUMENTS

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 2:42pm
Project Drafter:	-	Login:	GYang

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL FIRST FLOOR PARTIAL REMODEL PLAN - WEST

Client Project Number: N/A

Scale:	As indicated
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Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **M2.11**

Sheet of

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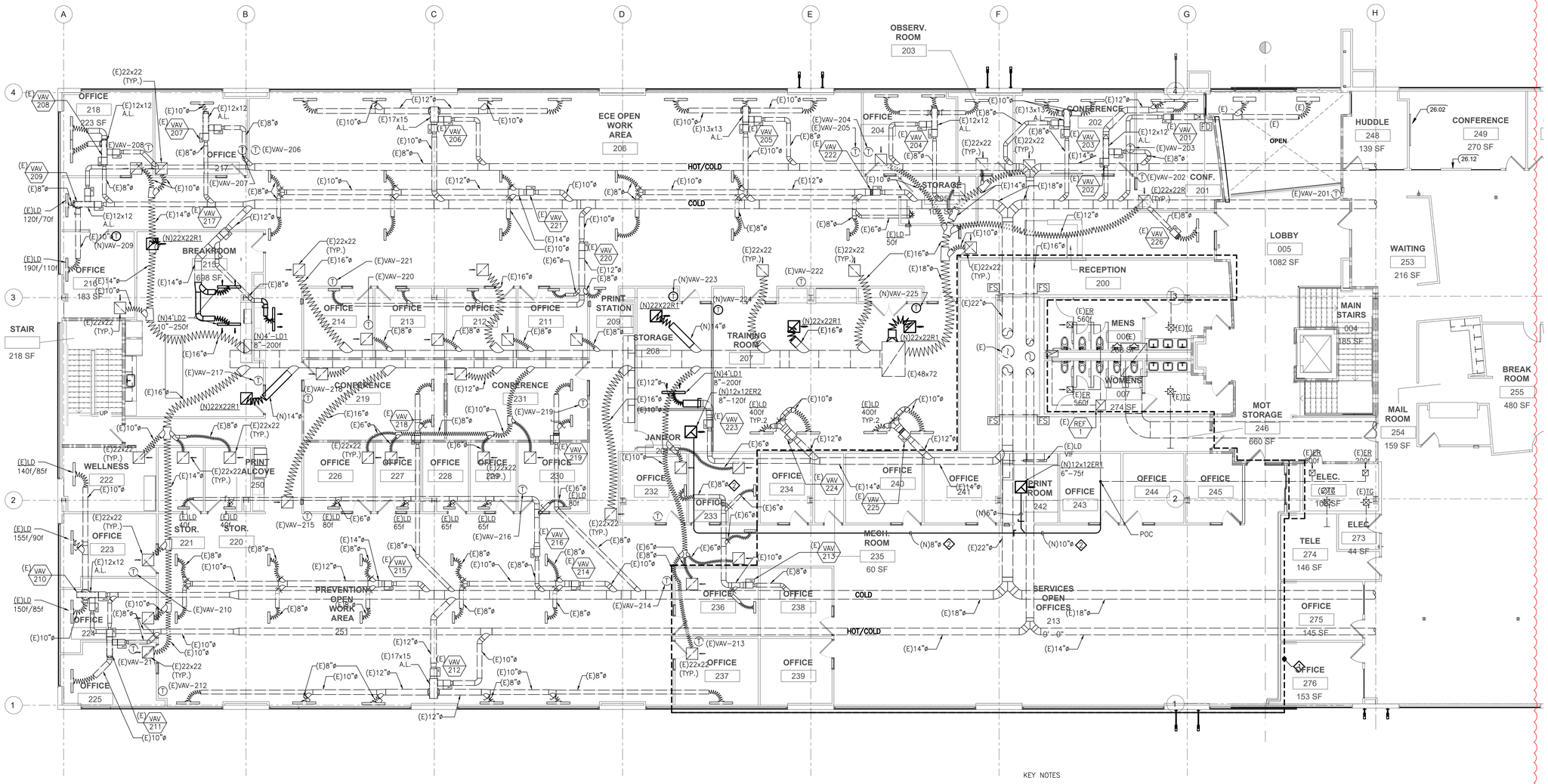

MECHANICAL SECOND FLOOR PARTIAL REMODEL FLOOR PLAN – WEST

A — SCALE: 1/8" = 1'-0"

KEY NOTES

1. MECHANICAL RECORD DRAWINGS OF THIS AREA ARE MISSING. CONTRACTOR TO FIELD VERIFY HVAC SYSTEM CONDITIONS OF THIS AREA AND CREATE SHOP DRAWINGS. NO MECHANICAL NEW SCOPE IN THIS AREA EXCEPT (N) EXHAUST DUCTWORK ROUTING AND (N) EXHAUST REGISTER SERVING PRINT ROOM 114.
2. PROVIDE NECESSARY OFFSET AND TRANSIT AS NECESSARY FOR THE (N)EXHAUST DUCTWORK. USE RECTANGULAR DUCT WITH SAME SECTIONAL AREA AS NECESSARY.

GENERAL NOTES

1. BALANCE AIRFLOWS OF ALLSUPPLY REGISTER SERVED BY (E)VAV-209, 210, 216, 217, 223, 224, AND 225 TO PROPOSED VALUES LISTED ON PLAN. ALL OTHER ROOMS SERVED BY OTHER VAV BOXES DO NOT HAVE ROOM AREA OR USAGE CHANGE. AIRFLOWS WITHIN THESE ROOMS DO NOT NEED TO BE MODIFIED0

   FOR REGISTERS SERVED BY DUAL DUCT VAV BOX, BALANCE COOLING ONLY BRANCH AND HEATING/PEAK COOLING BRANCH SEPARATELY.

2. BALANCE ALL (E) AND (N) EXHAUST REGISTERS SERVED BY (E)REF-1 TO PROPOSED VALUES. REFER TO FLOOR PLAN ON THIS SHEET AND ON M2.11. REPLACE BELT AND SHEAVE OF (E)REF-1 ON ROOF AS NECESSARY.
3. IF (E)DAMPER SHOWING ON PLAN (FROM RECORD DRAWINGS) DOES NOT EXIST, INSTALL NEW DAMPER FOR BALANCING ON SUPPLY DUCT BRANCH.
4. BMS CONTROL OF THE ENTIRE BUILDING IS BEING UPDATED IN ANOTHER PROJECT. (E)I-VU T-STATS CAN BE REUSED. REFER TO THE FLOOR PLANS FOR (E) AND (N)T-STAT LOCATION. (N)STATS AND CONTROLS ARE I-VU. WHERE (N)VAV BOX IS INSTALLED, PROVIDE (N)I-VU CONTROLS MATCHING THE NEWLY REPLACED CONTROLS. CONTACT JEFF @ AUTOMATED ELECTRIC (916-934-6306)

EXAMPLE OF CALLOUT ON (E)REGISTERS:

(E)LD 200f/150f — (FOR THIS EXAMPLE, TOTAL COOLING IS 200+150=350f AT PEAK CONDITION)

- BALANCE HEATING/PEAK COOLING BRANCH AIRFLOW TO CFM INDICATED, ONLY FOR SUPPLY REGISTERS SERVED BY DUAL DUCT VAV BOX
- BALANCE COOLING ONLY BRANCH AIRFLOW TO CFM INDICATED

DIRECTION OF AIRFLOW OF LINEAR DIFFUSER

DETAIL NOTES

1. VAV MOUNTING DETAIL REFER TO A/M5.01
2. REGISTER MOUNTING DETAIL REFER TO B,C/M5.01
3. DUCT SUPPORT DETAIL REFER TO F,G/M5.01
4. FIRE SMOKE DAMPER MOUNTING DETAIL REFER TO D/M5.02

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:43pm	
Project Drafter:		Login: GYang	

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HY Architects Project number: 6013

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL SECOND FLOOR PARTIAL REMODEL PLAN - WEST

Client Project Number: N/A

Scale:	As indicated
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **M2.21**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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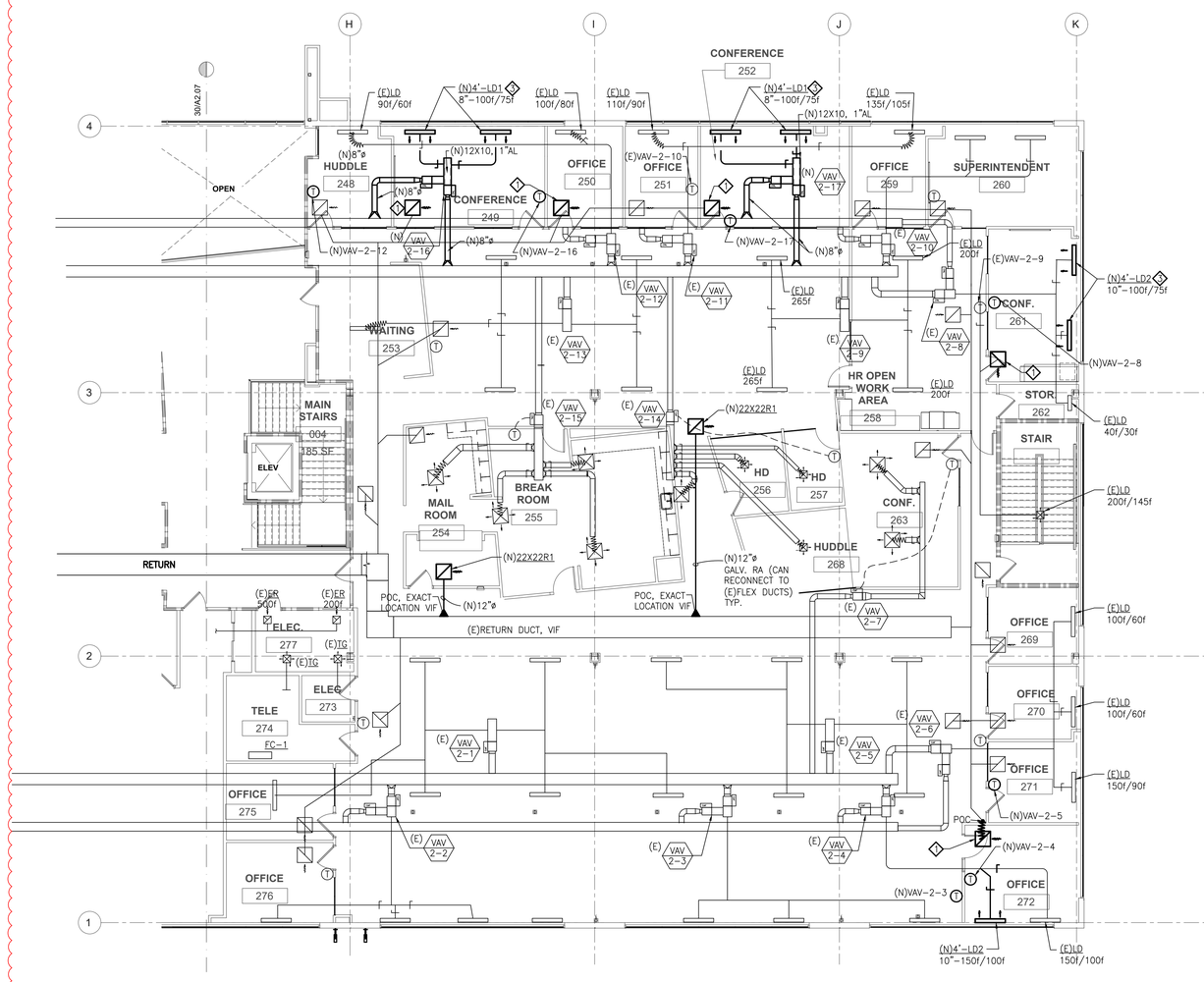

A MECHANICAL SECOND FLOOR PARTIAL REMODEL FLOOR PLAN – EAST

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

KEY NOTES

1. (N)22X22R1, RECONNECT TO (E)RETURN DUCTWORK AT SAME LOCATION
2. (N)22X22R1 AND (N)12"ø RA, CONNECT (N)RA TO (E)RA DUCTWORK. FIELD VERIFY EXACT LOCATION AND ROUTING.
3. IT IS ACCEPTABLE TO REUSE AND REINSTALL (E)LD ON NEW CEILING INSTEAD OF USING (N)LD IF THE (E)DIFFUSER AND PLENUM ARE IN GOOD CONDITION WITHOUT ANY LEAKAGE. PROVIDE (N)INSULATION ON PLENUM. (E)LD INFORMATION SEE PLAN ON M1.22.

GENERAL NOTES

1. BALANCE AIRFLOWS OF ALLSUPPLY REGISTER SERVED BY (E)VAV-2-4, 2-6, 2-8, 2-9, 2-11, 2-12, AND NEW VAV BOXES TO PROPOSED VALUES LISTED ON PLAN. ALL OTHER ROOMS SERVED BY OTHER (E) VAV BOXES DO NOT HAVE ROOM AREA OR USAGE CHANGE. AIRFLOWS WITHIN THESE ROOMS DO NOT NEED TO BE MODIFIED.

FOR REGISTERS SERVED BY DUAL DUCT VAV BOX, BALANCE COOLING ONLY BRANCH AND HEATING/PEAK COOLING BRANCH SEPARATELY.

2. IF (E)DAMPER SHOWING ON PLAN (FROM RECORD DRAWINGS) DOES NOT EXIST, NEW DAMPER FOR BALANCING ON SUPPLY DUCT BRANCH.

3. BMS CONTROL OF THE ENTIRE BUILDING IS BEING UPDATED IN ANOTHER PROJECT. (E)I-VU T-STATS CAN BE REUSED. REFER TO THE FLOOR PLANS FOR (E) AND (N)T-STAT LOCATION. (N)STATS AND CONTROLS ARE I-VU. WHERE (N)VAV BOX IS INSTALLED, PROVIDE (N)-VU CONTROLS MATCHING THE NEWLY REPLACED CONTROLS. CONTACT JEFF @ AUTOMATED ELECTRIC (916-934-6306)

4. ALL RETURN GRILLES ARE CONNECTED TO RETURN DUCTWORK, NOT OPEN TO CEILING. NO CEILING PLENUM ON 2ND FLOOR.

5. THERE IS LIMITED AS-BUILT INFORMATION FOR THIS AREA. DUCTWORK ROUTING AND VAV BOX LOCATIONS ARE ESTIMATED BASED ON RECORD DRAWINGS AND INFORMATION FROM SITE VISIT. CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS, DRAW SHOP DRAWINGS AND SUBMIT TO ENGINEER.

EXAMPLE OF CALLOUT ON (E)REGISTERS:

(E)LD 200f/150f — (FOR THIS EXAMPLE, TOTAL COOLING IS 200+150=350f AT PEAK CONDITION)

- BALANCE HEATING/PEAK COOLING BRANCH AIRFLOW TO CFM INDICATED, ONLY FOR SUPPLY REGISTERS SERVED BY DUAL DUCT VAV BOX
- BALANCE COOLING ONLY BRANCH AIRFLOW TO CFM INDICATED

(N)22X22R1, CONNECT TO (E)RETURN DUCTWORK

DIRECTION OF AIRFLOW OF LINEAR DIFFUSER

DETAIL NOTES

1. VAV MOUNTING DETAIL REFER TO A/M5.01
2. REGISTER MOUNTING DETAIL REFER TO B,C/M5.01
3. DUCT SUPPORT DETAIL REFER TO F,G/M5.01
4. FIRE SMOKE DAMPER MOUNTING DETAIL REFER TO D/M5.02

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 2:42pm
Project Drafter:	-	Login:	GYang

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REGISTERED PROFESSIONAL ENGINEER — JOSEPH W. TURLEY — No. M-028547 — Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

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HY Architects Project number: 6013

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL SECOND FLOOR PARTIAL REMODEL PLAN - EAST

Client Project Number: N/A

Scale:	As indicated
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **M2.22**

Sheet of

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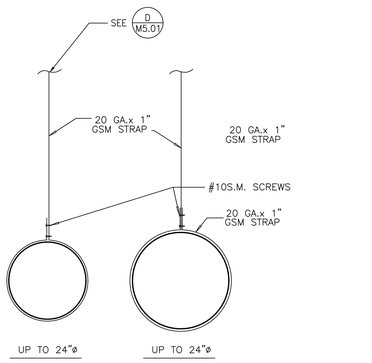
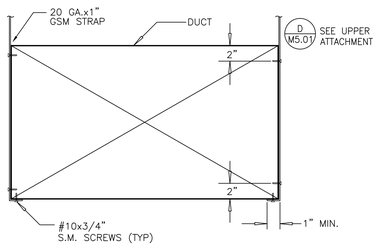
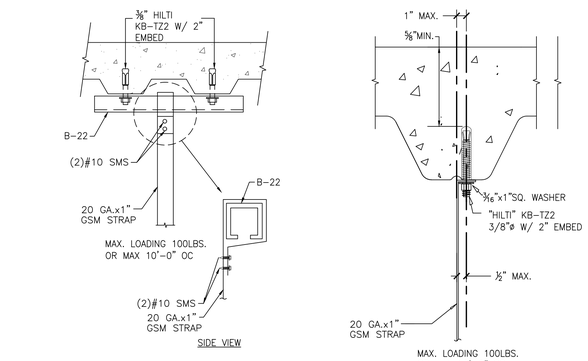


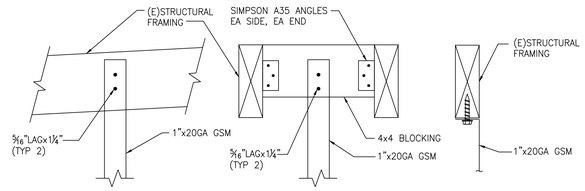


DUCT UP TO 20" WIDE OR LESS THAN 10 LBS/L.F.

F LOWER DUCT HANGER ATTACHMENT DETAILS
NO SCALE

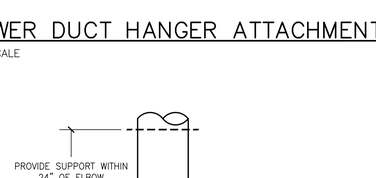


CONCRETE DECK ATTACHMENT DETAIL (1ST FLOOR)



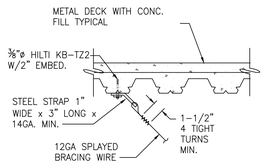
WOOD FRAMING ATTACHMENT DETAIL (2ND FLOOR)

D STRAP UPPER ATTACHMENT DETAIL
NO SCALE



GENERAL DETAIL TO BE APPLIED THROUGHOUT PROJECT.

G DUCT SUPPORT LOCATION PLAN VIEW – TYP ALL DUCTING
NO SCALE



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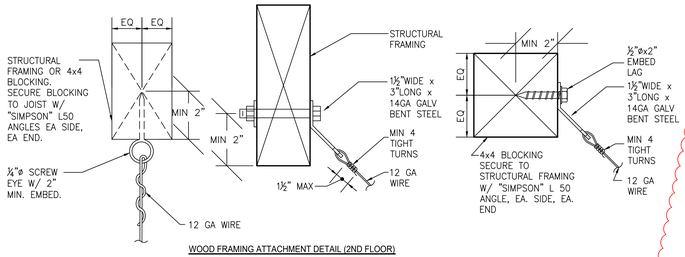

WOOD FRAMING ATTACHMENT DETAIL (2ND FLOOR)

E SPLAY WIRE ATTACHMENT DETAIL
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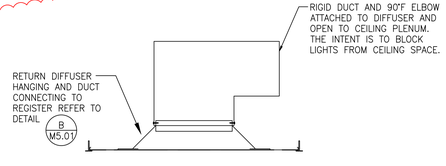
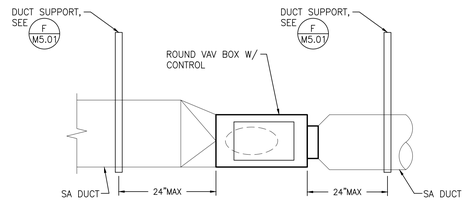
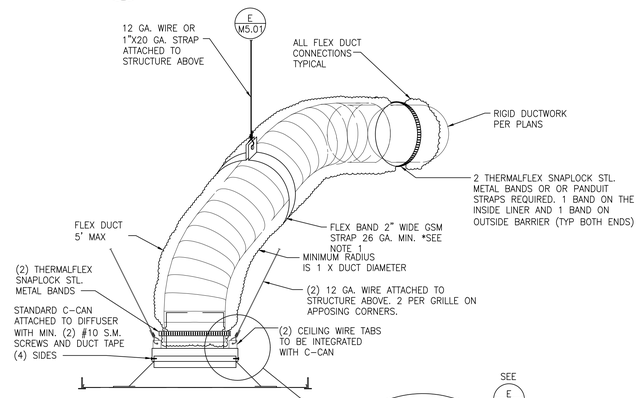


H RETURN GRILLE TO CEILING PLENUM
NO SCALE



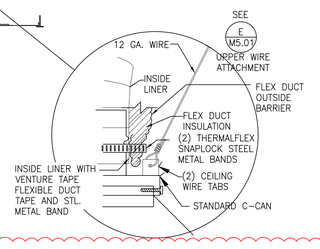
1. MOUNT VAV BOX TO ALLOW FOR ADEQUATE ACCESS TO CONTROLS AND VALVES.
2. LABEL CEILING GRID BELOW VAV BOX W/ WHITE PLASTIC TAG W/ ENGRAVED NAME TAG. EPOXY TO CEILING GRID. LETTERING TO BE ¼" HIGH (BLACK). LAMINENT TAG TO BE NO WIDER THAN CEILING GRID. SUBMIT SAMPLE FOR ENGINEER'S APPROVAL.

A VAV BOX MOUNTING
NO SCALE

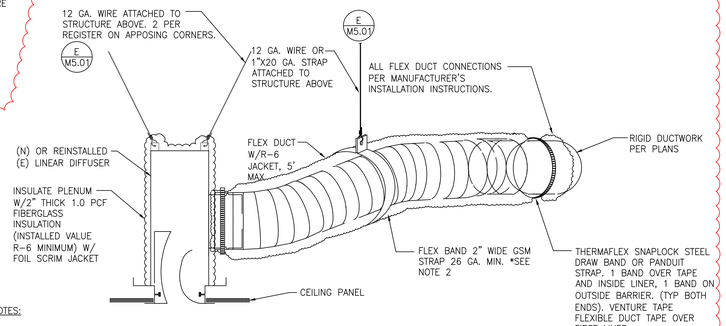


*NOTE:

1. MAXIMUM HANGER SPACING 48" O.C. MAXIMUM SAG BETWEEN HANGERS IS 1/2" PER FOOT.(2" MAX.)
2. SEE UPPER ATTACHMENT DETAILS FOR HANGER WIRE SUPPORT TO STRUCTURE.
3. FOR RIGID DUCT CONNECTIONS MOUNTING OF DIFFUSER WITH (2)HANGER WIRES SHALL BE SIMILAR.
4. RETURN GRILLES ON 1ST FLOOR W/O DUCT CONNECTION WITH (2)HANGER WIRES SHALL BE SIMILAR.



B RETURN/EXHAUST GRILLE MOUNTING DETAIL
NO SCALE



*NOTES:

1. PLENUM WITH ROUND COLLAR IN SIDE OF PLENUM, TO BE USED FOR ALL NEW AND REINSTALLED EXISTING LINEAR PLENUM.
2. MAXIMUM HANGER SPACING 48" O.C. MAXIMUM SAG BETWEEN HANGERS IS 1/2" PER FOOT, 2" MAXIMUM.
3. SEE UPPER ATTACHMENT DETAILS FOR HANGER WIRE SUPPORT TO STRUCTURE.
4. RIGID DUCTING MAY BE USED IN LIEU OF FLEXIBLE DUCTING.
5. INSULATE REGISTER PLENUM. DETAILED INFORMATION SEE DETAIL ABOVE.
6. USE MANUFACTURE PROVIDE "BEAUTY RING" FOR HARD-LID CEILING INSTALLATION.

C LINEAR DIFFUSER MOUNTING DETAIL
NO SCALE

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:42pm	
Project Drafter:	-	Login: DYang	

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL DETAILS

Client Project Number: N/A

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Checked By: TURLEY
Issue Date: 08/25/2023

Sheet **M5.01**

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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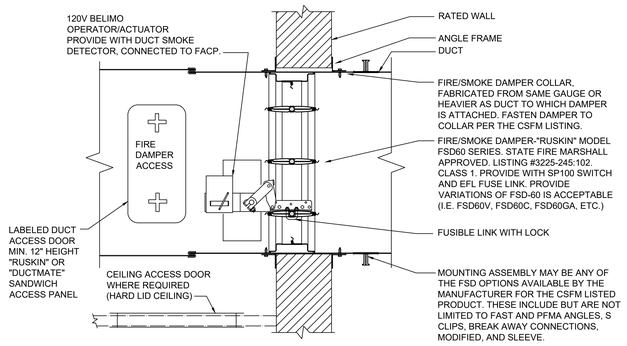
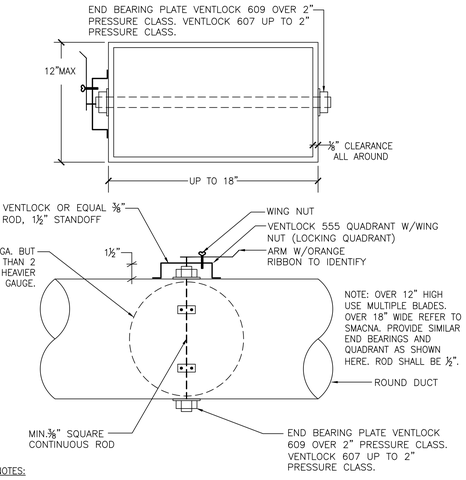


NOTES:

1. ALL FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE TERMS OF THE LISTING
2. FIRE/SMOKE DAMPER DETAIL FOR REFERENCE ONLY.
3. FIRE/SMOKE DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY PER MANUFACTURERS PRINTED INSTRUCTIONS.
4. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
5. DUCT SMOKE DETECTORS ARE USED TO ACTIVATE DAMPER ACTUATORS. DAMPER ACTUATOR & SMOKE DETECTOR SHALL BE INTERLOCKED WITH BUILDING ALARM SYSTEM. SEE ELECTRICAL DRAWINGS.
6. DAMPER SHALL CLOSE UPON LOSS OF POWER.
7. BALANCE CONTRACTOR TO TEST PRESSURE DIFFERENTIAL FOR PROJECTS WITH SAMPLE TUBE SMOKE DETECTORS. PROJECTS WITH TOTAL AREA DETECTION DO NOT REQUIRE PRESSURE VERIFICATION.
8. CLOSURE OF FSD SHALL CAUSE AIR MOVING EQUIPMENT TO SHUT DOWN. THE SMOKE ZONE IS THE ENTIRE FLOOR AND THEREFORE THE ENTIRE FLOOR AIR SYSTEMS SHUT DOWN. (EXHAUST FANS GREATER THAN 1500 CFM AND AC UNITS).
9. ACCESS POINT TO THE FIRE/SMOKE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING NOT LESS THAN 0.5" HIGH LETTERS READING "FIRE SMOKE DAMPER".

D FIRE SMOKE DAMPER DETAIL

NO SCALE



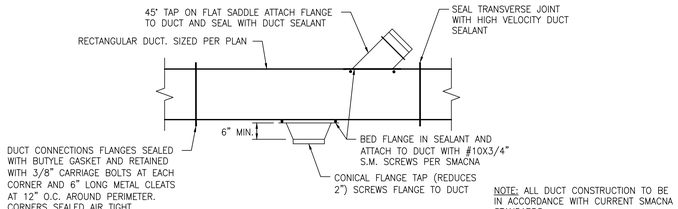
NOTES:

1. SEAL ALL JOINTS W/ A PERMANENT FLEXIBLE, HIGH PRESSURE DUCT SEALANT (UL 181 LISTED).
2. SYSTEM BUILT TO COMPLY W/ SMACNA LATEST REVISION. ITEMS LISTED ABOVE ARE MINIMUM REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR NECESSARY FOR COMPLETE WORKABLE SYSTEM.
3. SQUARE DAMPERS ARE ALSO REQUIRED AND SHALL MEET LATEST SMACNA STANDARDS. QUADRANTS SHALL HAVE STANDOFFS SIMILAR TO ONES SHOWN FOR ROUND DUCT.

GENERAL DETAIL TO BE APPLIED THROUGHOUT PROJECT.

A TYPICAL BALANCE DAMPER

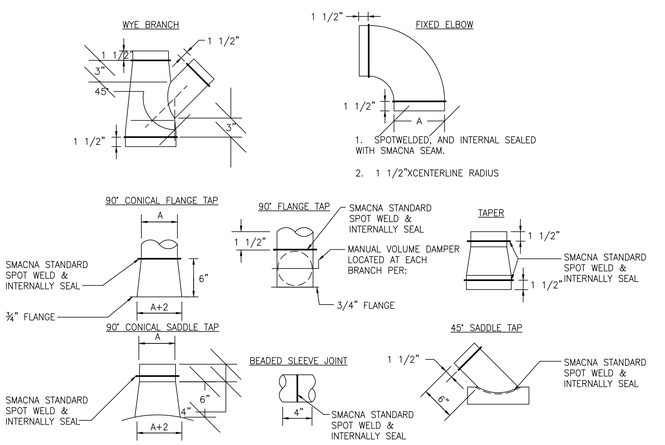
NO SCALE



NOTE: ALL DUCT CONSTRUCTION TO BE IN ACCORDANCE WITH CURRENT SMACNA STANDARDS.

GENERAL DETAIL TO BE APPLIED THROUGHOUT PROJECT.

B RECTANGULAR DUCT CONNECTION



GENERAL DETAIL TO BE APPLIED THROUGHOUT PROJECT.

C ROUND DUCT FITTINGS

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 7:43pm
Project Drafter:	-	Login:	GYang

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REGISTERED PROFESSIONAL ENGINEER — JEFFREY W. THOMPSON — No. M-029507 — Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

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HY Architects Project number: 6013

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Project

TENANT IMPROVEMENTS

Sheet Title

MECHANICAL DETAILS

Client Project Number: N/A

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Issue Date:	08/25/2023

Sheet

M5.02

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SECTION 15010- MECHANICAL WORK- GENERAL REQUIREMENTS

SECTION 15010 – MECHANICAL WORK – GENERAL REQUIREMENTS

CONDITIONS OF CONTRACT AND DIVISION 1 APPLY TO THIS SECTION.

PART 1 – GENERAL

1.01 INCLUSIONS:

A. THIS SECTION APPLIES FOR ALL DIVISION 15 MECHANICAL SECTIONS. ALL CONDITIONS AND MATERIALS ARE PERTINENT TO THE OTHER SECTIONS AS IF REPEATED IN THOSE SECTIONS.

B. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.

1.02 DRAWINGS:

A. EXAMINE ALL DRAWINGS PRIOR TO BIDDING OF WORK AND REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT.

CONTRACTOR SHALL VISIT THE SITE OF WORK AND EXAMINE EXISTING CONDITIONS IN ORDER TO BECOME FAMILIAR WITH THE SCOPE. IF DIMENSIONS ARE SHOWN ON THE PLANS, THEY SHALL BE VERIFIED AT THE SITE. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. FAILURE TO EXAMINE THE SITE SHALL NOT CONSTITUTE BASIS FOR CLAIMS FOR ADDITIONAL WORK BECAUSE OF LACK OF KNOWLEDGE OR LOCATION OF HIDDEN CONDITIONS WHICH COULD AFFECT THE SCOPE.

B. DRAWINGS SHOWING LOCATION OF EQUIPMENT, PIPING, DUCTWORK, ETC., ARE DIAGRAMMATIC AND JOB CONDITIONS WILL NOT ALWAYS PERMIT THEIR INSTALLATION IN THE LOCATION SHOWN. THE MECHANICAL DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, DUCTWORK, EQUIPMENT, ETC., AND SHALL BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS, ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES WILL PERMIT. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE CONSIDERED A PART OF THE WORK INSOFAR AS THESE DRAWINGS FURNISH THE CONTRACTOR WITH INFORMATION RELATING TO DESIGN AND CONSTRUCTION OF THE BUILDING. ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MECHANICAL DRAWINGS. BECAUSE OF THE SMALL SCALE OF THE MECHANICAL DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL ARRANGE HIS WORK ACCORDINGLY PROVIDING SUCH FITTINGS, VALVES AND ACCESSORIES AS MAY BE REQUIRED TO MEET CONDITIONS. WHEN JOB CONDITIONS DO NOT PERMIT INSTALLATION OF EQUIPMENT, PIPING, DUCTWORK, ETC., IN THE LOCATIONS SHOWN, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY AND THE RELOCATION DETERMINED IN A JOINT CONFERENCE. CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RELOCATION OF ANY ITEMS WITHOUT FIRST OBTAINING THE ARCHITECT'S APPROVAL. CONTRACTOR SHALL REMOVE AND RELOCATE SUCH ITEMS AT HIS OWN EXPENSE IF SO DIRECTED BY THE ARCHITECT.

C. EXECUTE WORK MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR VICE VERSA, THE SAME AS IF SPECIFICALLY MENTIONED IN BOTH.

1.03 CODES:

A. PROVIDE ALL WORK AND MATERIALS IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 21, TITLE 22, AND TITLE 24, AS APPLICABLE. SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY, (CAL OSHA); THE CALIFORNIA ELECTRIC CODE; THE CALIFORNIA PLUMBING CODE; THE CALIFORNIA BUILDING CODE; THE CALIFORNIA MECHANICAL CODE; STATE FIRE MARSHAL; AND OTHER APPLICABLE LAWS OR REGULATIONS. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. FURNISH WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR REQUIRED TO COMPLY WITH THESE RULES AND REGULATIONS.

B. WHERE MATERIAL OR EQUIPMENT IS SPECIFIED TO CONFORM TO STANDARDS SUCH AS AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM), UNDERWRITERS' LABORATORIES, INC., (UL), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) AND THE LIKE, IT SHALL BE ASSUMED THAT THE MOST RECENT EDITION OF THE STANDARD IN EFFECT AT THE TIME OF BID SHALL BE USED.

1.04 FEES AND PERMITS:

A. PROCURE AND PAY FOR ALL PERMITS AND LICENSES REQUIRED.

1.05 FRAMING, CUTTING AND PATCHING:

A. SPECIAL FRAMING, RECESSES, CHASES AND BACKING FOR WORK UNDER THIS SECTION, UNLESS DETAILED OTHERWISE, IS COVERED UNDER OTHER SECTIONS. BE RESPONSIBLE FOR PROPER PLACEMENT OF ALL PIPE SLEEVES, HANGERS AND SUPPORTS AND LOCATION AND SIZING OF OPENINGS FOR WORK OF THIS SECTION.

1.06 SUBSTITUTIONS AND MATERIAL LIST:

A. PRODUCT NAMES ARE USED AS STANDARDS OF QUALITY, ITEMS FURNISHED AS STANDARD ON SPECIFIED EQUIPMENT SHALL BE FURNISHED ON ALL SUBSTITUTED EQUIPMENT AT NO EXTRA COST TO THE CONTRACT REGARDLESS OF DISPOSITION OF SUBMITTAL (NOTE: OTHER MATERIALS OR METHODS SHALL NOT BE USED UNLESS APPROVED IN WRITING BY THE ARCHITECT. THE BURDEN OF PROOF AS TO THE EQUALITY OF ANY PROPOSED MATERIAL SHALL BE UPON THE CONTRACTOR; ARCHITECT'S DECISION IS FINAL. ONLY ONE REQUEST FOR SUBSTITUTION SHALL BE CONSIDERED FOR EACH ITEM. EQUIPMENT CAPACITIES SPECIFIED ARE MINIMUM ACCEPTABLE. SUBMITTALS WILL NOT BE ACCEPTED UNTIL COMPLIANCE WITH THE REQUIREMENTS OF CONTRACT DOCUMENTS HAS BEEN CONFIRMED BY THE CONTRACTOR.

B. UNLESS STIPULATED OTHERWISE IN GENERAL CONDITIONS AND DIVISION 1, SUBMIT A LIST OF 7 COPIES OF MATERIALS FOR APPROVAL WITHIN 35 DAYS AFTER THE AWARD OF THE CONTRACT. IT MAY BE ACCOMPANIED BY SHOP DRAWINGS, PUMP PERFORMANCE CURVES, FAN CURVES, AND OTHER PERTINENT DATA, SHOWING THE SIZE AND CAPACITY OF THE PROPOSED MATERIALS. ALL MATERIALS TO BE USED, WHETHER SUBSTITUTIONS OR NOT, SHALL BE LISTED IN THE ORDER IN WHICH THEY APPEAR IN THE SPECIFICATIONS.

C. ANY MECHANICAL, ELECTRICAL, STRUCTURAL OR OTHER CHANGES REQUIRED FOR THE INSTALLATION OF ANY APPROVED SUBSTITUTED EQUIPMENT SHALL BE MADE TO THE SATISFACTION OF THE ARCHITECT AND WITHOUT ADDITIONAL COST TO THE OWNER. APPROVAL BY THE ARCHITECT OF THE SUBSTITUTED EQUIPMENT AND/OR DIMENSIONAL DRAWINGS DOES NOT WAIVE THESE REQUIREMENTS. UPON REQUEST, SUBMIT DRAWINGS OF MECHANICAL EQUIPMENT SPACES SHOWING SUBSTITUTED EQUIPMENT BEFORE INSTALLATION.

D. REVIEW OF MATERIAL SHALL NOT BE CONSTRUED AS AUTHORIZING ANY DEVIATIONS FROM THE SPECIFICATIONS UNLESS THE ATTENTION OF THE ARCHITECT HAS BEEN DIRECTED TO THE SPECIFIC DEVIATIONS.

E. FURNISH TO THE PROJECT REPRESENTATIVE, UPON REQUEST, COMPLETE INSTALLATION INSTRUCTIONS ON ALL MATERIALS AND EQUIPMENT BEFORE STARTING INSTALLATION OF SAME.

F. SUBMITTALS SHALL BEAR THE SPECIFICATION REFERENCE OR DRAWING LOCATION WHERE THEY ARE SPECIFIED. SUBMITTALS SHALL NOT BE ACCEPTED IN INCOMPLETE FORM. SUBMITTALS SHALL BE ORGANIZED INTO BOOKLETS FOR EACH SPECIFICATION SECTION AND SUBMITTED IN INDEXED LOOSE LEAF BINDERS WITH NOTATION WHEN IT IS A DEVIATION FROM THE SPECIFICATIONS.

G. HAVE FIRE DAMPER INSTALLATION INSTRUCTIONS AVAILABLE AT THE SITE DURING CONSTRUCTION FOR USE BY THE INSPECTOR.

1.07 SITE CONDITIONS:

A. INFORMATION ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS APPROXIMATE ONLY. DEVIATIONS FOUND NECESSARY DURING PROGRESS OF CONSTRUCTION TO CONFORM TO ACTUAL CONDITIONS, AS APPROVED BY THE ARCHITECT, SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SERVICES. PROMPTLY NOTIFY THE ARCHITECT IF SERVICES ARE FOUND WHICH ARE NOT SHOWN ON DRAWINGS.

1.08 GUARANTEE:

A. REPAIR OR REPLACE ANY DEFECTIVE WORK, MATERIALS OR PART WHICH MAY APPEAR WITHIN A YEAR OF THE DATE OF ACCEPTANCE. THIS SHALL INCLUDE DAMAGE BY LEAKS.

B. ON FAILURE TO COMPLY WITH THE ABOVE GUARANTEE WITHIN A REASONABLE LENGTH OF TIME AFTER NOTIFICATION IS GIVEN, THE ARCHITECT SHALL HAVE THE REPAIRS MADE AT THE CONTRACTOR'S EXPENSE.

1.09 MAINTENANCE AND OPERATING INSTRUCTIONS:

A. INSTRUCT THE OWNER'S AUTHORIZED REPRESENTATIVES IN OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT AND SYSTEMS. PROVIDE THREE COPIES OF CERTIFICATE SIGNED BY OWNER'S REPRESENTATIVES ATTESTING TO THEIR HAVING BEEN INSTRUCTED.

B. FURNISH THREE COMPLETE SETS OF OPERATING AND MAINTENANCE INSTRUCTIONS BOUND IN A HARDBACK BINDER AND INDEXED. START COMPILING THE DATA UPON APPROVAL OF LIST OF MATERIALS. FINAL OBSERVATION WILL NOT BE MADE UNTIL BOOKLETS ARE APPROVED BY ARCHITECT.

C. THESE SETS SHALL INCORPORATE THE FOLLOWING:

1. COMPLETE OPERATING INSTRUCTIONS FOR EACH ITEM OF HEATING, VENTILATING, AIR CONDITIONING AND PLUMBING EQUIPMENT.

2. TEST DATA AND AIR AND WATER BALANCING REPORTS AS SPECIFIED.

3. TYPEWRITTEN MAINTENANCE INSTRUCTIONS FOR EACH ITEM OF EQUIPMENT LISTING IN DETAIL THE LUBRICANT TO BE USED, FREQUENCY OF LUBRICATION, INSPECTIONS REQUIRED, ADJUSTMENT, ETC.

4. MANUFACTURER'S BULLETINS WITH PARTS NUMBERS, INSTRUCTIONS, ETC., FOR EACH ITEM OF EQUIPMENT, PROPERLY STRIPPED AND ASSEMBLED.

5. TEMPERATURE CONTROL DIAGRAMS AND LITERATURE.

6. A COMPLETE LIST OR SCHEDULE OF ALL MAJOR VALVES GIVING THE NUMBER OF THE VALVE, LOCATION AND THE ROOMS OR AREA CONTROLLED BY THE VALVE. IDENTIFY EACH VALVE WITH A PERMANENTLY ATTACHED METAL TAG STAMPED WITH NUMBER TO MATCH SCHEDULE. POST LIST IN FRAME UNDER PLASTIC ON WALL IN MECHANICAL ROOM OR WHERE DIRECTED.

1.10 SCHEDULE OF WORK:

A. ALL TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICES, INCLUDING ADEQUATE HEAT AND COOLING, DURING THE COURSE OF THIS CONTRACT SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. THE NORMAL FUNCTIONS OF THE BUILDING MUST NOT BE INTERRUPTED. NOTIFY THE OWNER SEVEN (7) DAYS IN ADVANCE BEFORE DISTURBING ANY SERVICE.

1.11 RECORD DRAWINGS:

A. UPON COMPLETION OF THE WORK AND AS A PRECEDENT TO FINAL PAYMENT, DELIVER TO THE ARCHITECT ORIGINALS OF ALL DRAWINGS SHOWING THE WORK EXACTLY AS INSTALLED. ALSO DELIVER TO THE ARCHITECT ONE COMPLETE SET OF REPRODUCIBLES OF ALL DRAWINGS SHOWING THE WORK EXACTLY AS INSTALLED. ALL RECORD DRAWINGS SHALL BE SIGNED BY THE CONTRACTOR VERIFYING THEIR ACCURACY.

1.12 DELIVERY AND STORAGE:

A. ALL EQUIPMENT, DUCTING AND PIPING DELIVERED TO SITE SHALL BE PROTECTED FROM THE WEATHER, HUMIDITY AND TEMPERATURE VARIATIONS, DIRT AND DUST AND OTHER CONTAMINANTS.

PART 2 – PRODUCTS

2.01 GENERAL:

A. MATERIALS OR EQUIPMENT OF THE SAME TYPE SHALL BE OF THE SAME BRAND WHEREVER POSSIBLE. ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION.

2.02 ELECTRIC MOTORS:

A. SHALL BE ALLIS-CHALMERS, GENERAL ELECTRIC, GOULD, LINCOLN, OR EQUAL, SELECTED FOR QUIET OPERATION. FURNISH MOTORS WITH SPLASHPROOF OR WEATHERPROOF HOUSINGS, WHERE REQUIRED OR RECOMMENDED BY THE MANUFACTURER. MATCH THE NAMEPLATE VOLTAGE RATING WITH THE ELECTRICAL SERVICE SUPPLYING CHECK ELECTRICAL DRAWINGS. PROVIDE A TRANSFORMER FOR EACH MOTOR NOT WOUND SPECIFICALLY FOR SYSTEM VOLTAGE. THE MINIMUM EFFICIENCIES SHALL BE AS DEFINED BY IEEE 112 TEST METHOD B AND NEMA STANDARD MG1-112-53B.

2.03 MOTOR STARTERS:

A. FURNISH STARTERS WITH THE PROPER SIZE THERMAL OVERLOAD UNITS, AMBIENT COMPENSATED. PROVIDE 3-PHASE MOTOR STARTERS WITH 3-PHASE OVERLOADS. MAGNETIC STARTERS SHALL HAVE HAND-OFF-AUTOMATIC SWITCHES AND CONTROL TRANSFORMERS FURNISHED INTEGRAL WITH THE STARTER WHEN STARTER IS SERVING AN AUTOMATICALLY CONTROLLED MOTOR. STARTERS SHALL BE SQUARE D, ALLEN BRADLEY, OR EQUAL, IN NEMA TYPE 1 ENCLOSURE INSIDE AND NEMA TYPE 3R OUTSIDE AS REQUIRED. MINIMUM STARTER SIZE SHALL BE 1.

2.04 VALVES AND FITTINGS:

A. VALVES: SHALL BE DEZURIK, CRANE, NIBCO, KENNEDY, OR EQUAL.

1. GATE VALVES THRU 2-1/2" -- CRANE #428, KENNEDY #427, NIBCO #T-595.

4. CHECK VALVES 2-1/2" AND SMALLER -- MUESSCO #2038P, CRANE #36, NIBCO #T-413.

5. BALL VALVES -- NIBCO LEAD FREE, 2 PIECE FULL PORT, 600 WP.

B. GAS PRESSURE REGULATORS -- RELIANCE #1803 OR #2003, ROCKWELL OR EQUAL WITH INTERNAL RELIEF FOR LPG.

9. VALVES IN THE GROUND SHALL BE CRANE #2487-1/2-0, MUELLER #A-2380-21 OR EQUAL, AND SHALL BE INSTALLED IN CHRISTY CONCRETE PRODUCTS #T1 VALVE BOX WITH C210 C.I. LID, BOOKS #1-RT BOX WITH #1-RT C.I. LID OR EQUAL. NOT OPERATED ACCEPTABLE IN ALHAMBRA FOUNDRY CO. #A-3004 OR EQUAL ACCESS BOXES MARKED FOR SERVICE. PROVIDE A TEE HANDLE WRENCH FOR EACH SIZE. SET ACCESS BOXES IN 4" THICK CONCRETE PAD, TROWEL SMOOTH AND EDGE, SET FLUSH WITH GRADE. WATER SERVICE VALVE IN GROUND SHALL BE AWWA, 200 PSI, NUT OPERATED.

10. VALVES IN COPPER LINES SHALL BE FURNISHED WITH ADAPTERS, OR MAY BE SOLDER JOINT TYPE OF EQUAL QUALITY TO SCREW TYPE VALVES.

11. GATE -- CRANE #459 THRU 2", #467 FOR 2-1/2" AND LARGER; DEMCO NE-H FOR 4" AND LARGER.

12. BALL VALVES -- NIBCO S 580, NIBCO #T-560, 2" MAXIMUM, MINIMUM 400 PSI CWP.

13. BALANCE VALVES -- BELL & GOSSETT CIRCUIT SETTER PLUS, ARMSTRONG CBV, OR EQUAL.

14. PROVIDE GATE OR BALL VALVES ON INLET OF EACH WATER HEATER AND ON INLET AND OUTLET OF EACH PUMP WHETHER SHOWN OR NOT.

15. BUTTERFLY VALVES: KEYSTONE 100, CRANE MONARCH 2200 OR EQUAL, NIBCO LD-2000.

B. UNIONS AND FLANGES:

1. STEEL 2" AND SMALLER -- 150# SCREWED BLACK OR GALVANIZED MALLEABLE IRON, MATCH PIPE, GROUND JOINT, BRASS-TO-IRON SEAT.

2. STEEL 2-1/2" AND LARGER -- 150# BLACK FLANGE UNION, FLAT FACED, FULL GASKET.

3. COPPER OR BRASS PIPE OR TUBING 2" OR SMALLER -- 150# CAST BRONZE GROUND JOINT, BRONZE-TO-BRONZE SEAT WITH COPPER-TO-COPPER END CONNECTIONS.

4. COPPER OR BRASS PIPE OR TUBING 2-1/2" AND LARGER -- 150# BRASS FLANGE UNION, FLAT FACED, FULL GASKET.

5. GASKETS – HOT AND COLD WATER -- GARLOCK STYLE 3200.

6. FLANGE BOLTS -- OPEN-HEARTH BOLT STEEL, SQUARE HEADS WITH COLD PRESSED HEXAGONAL NUTS, CADMIUM PLATED IN GROUND. PROVIDE COPPER PLATED STEEL BOLTS AND NUTS OR BRASS BOLTS AND NUTS FOR BRASS FLANGES.

C. VALVE BOXES: PRECAST CONCRETE OR CAST IRON WITH CAST IRON LOCKING TYPE COVERS LETTERED TO SUIT SERVICE – BROOKS NO. 3-TL, CHRISTIE NO. B3, FRASER NO. 3, ALHAMBRA A-3004 OR A-3005, ALHAMBRA E-2202 OR E-2702, OR EQUAL, WITH EXTENSIONS TO SUITE CONDITIONS. CAST IRON BOXES OF SCREW TYPE OR SLIP TYPE, SIMILAR TO THOSE SPECIFIED HEREIN, WILL BE ACCEPTABLE. USE ONLY CAST IRON BOXES IN TRAFFIC AREAS.

MINIMUM INSIDE DIMENSION OR DIAMETER OF BOX: 4" FOR VALVE SIZES 3" AND SMALLER AND 5" FOR VALVE SIZES 4" AND LARGER.

WHERE SEVERAL VALVES OR OTHER EQUIPMENT ARE GROUPED TOGETHER, PROVIDE LARGER BOXES OF RECTANGULAR "VAULT" TYPE ADEQUATELY SIZED FOR CONDITIONS AND SIMILAR IN CONSTRUCTION TO THOSE SPECIFIED ABOVE.

2.05 PIPE HANGERS AND SUPPORTS:

A. THE WORK COVERED UNDER THIS SECTION CONSISTS OF THE FURNISHING OF ALL NECESSARY LABOR, SUPERVISION, MATERIALS, EQUIPMENT, AND SERVICES TO COMPLETELY EXECUTE THE PIPE HANGER AND SUPPORTS AS DESCRIBED IN THIS SPECIFICATION.

B. REFERENCES:

1. MSS–SP58 — MANUFACTURERS STANDARDIZATION SOCIETY: PIPE HANGERS AND SUPPORTS – MATERIALS, DESIGN, AND MANUFACTURE.

2. MSS–SP69 — MANUFACTURERS STANDARDIZATION SOCIETY: PIPE HANGERS AND SUPPORTS – SELECTION AND APPLICATION.

3. NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.

4. ASTM A123 – SPECIFICATION FOR ZINC HOT–GALVANIZED COATINGS ON PRODUCTS FABRICATED FROM ROLLED, PRESSED, AND FORGED STEEL SHAPES, PLATES, BARS AND STRIP.

5. ASTM A653 G90 – SPECIFICATION FOR STEEL SHEET, ZINC–COATED BY THE HOT–DIP PROCESS.

6. ASTM B633 – SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF ZINC ON IRON AND STEEL.

C. QUALITY ASSURANCE:

1. STEEL PIPE HANGERS AND SUPPORTS SHALL HAVE THE MANUFACTURERS NAME, PART NUMBER, AND APPLICABLE SIZE STAMPED IN THE PART ITSELF FOR IDENTIFICATION.

2. HANGERS AND SUPPORTS SHALL BE DESIGNED AND MANUFACTURED IN CONFORMANCE WITH MSS–SP58.

3. SUPPORTS FOR SPRINKLER PIPING SHALL BE IN CONFORMANCE WITH NFPA 13.

D. SUBMITTALS

1. SUBMIT PRODUCT DATA ON ALL HANGER AND SUPPORT DEVICES. PRODUCT DATA TO INCLUDE, BUT LIMITED TO MATERIALS, FINISHES, APPROVALS, LOAD RATINGS, AND DIMENSIONAL INFORMATION.

E. ACCEPTABLE MANUFACTURERS

1. MANUFACTURER: SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS, PIPE HANGER AND SUPPORT SYSTEMS SHALL BE AS MANUFACTURED BY TOLCO, INC., SUPERSTRUT, B–LINE, OR EQUAL.

F. PIPE HANGERS AND SUPPORTS

1. UNINSULATED PIPES 2 INCH AND SMALLER:

A. ADJUSTABLE STEEL SWIVEL RING (BAND TYPE) HANGER, TOLCO FIG. 2, FIG. 200.

B. ADJUSTABLE STEEL SWIVEL J–HANGER, TOLCO FIG. 3.

C. ADJUSTABLE STEEL CLEVIS HANGER, TOLCO FIG. 1, FIG 1LD.

2. UNINSULATED PIPES 2–1/2 INCH AND LARGER:

A. USTABLE STEEL CLEVIS HANGER TOLCO FIG. 1.

B. PIPE ROLL WITH SOCKETS, TOLCO FIG. 322.

C. ADJUSTABLE STEEL YOKE PIPE ROLL, TOLCO FIG. 324.

3. INSULATED PIPE – HOT PIPING:

A. 2 INCH AND SMALLER PIPES: USE ADJUSTABLE STEEL CLEVIS WITH GALVANIZED SHEET METAL SHIELD, TOLCO FIG. 1 WITH FIG. 220.

B. 2–1/2 INCH AND LARGER PIPES:

1) ADJUSTABLE STEEL YOKE PIPE ROLL WITH PIPE COVERING PROTECTION SADDLE, TOLCO FIG. 324 WIT FIG 260 THRU 265.

2) PIPE ROLL WITH SOCKETS WITH PIPE COVERING PROTECTION SADDLE, TOLCO FIG 322 WITH FIG 260 THRU 265.

4. INSULATED PIPE – COLD PIPING:

A. 5 INCH AND SMALLER PIPES: USE ADJUSTABLE STEEL CLEVIS WITH GALVANIZED SHEET METAL SHIELD. TOLCO FIG. 1 WITH FIG. 220.

B. 6 INCH AND LARGER PIPES:

1) ADJUSTABLE STEEL YOKE PIPE ROLL WITH PIPE COVERING PROTECTION SADDLE. TOLCO FIG. 322 WITH FIG. 260 THRU 265.

2) PIPE ROLL WITH SOCKETS WITH PIPE COVERING PROTECTION SADDLE, TOLCO FIG. 322 WITH FIG. 260 THRU 265.

G. PIPE CLAMPS: WHEN FLEXIBILITY IN THE HANGER ASSEMBLY IS REQUIRED DUE TO HORIZONTAL MOVEMENT, USE PIPE WITH WELDLESS EYE NUTS, TOLCO FIG. 4 OR FIG. 4N WITH FIG. 330. FOR INSULATED LINES USE BOLTED PIPE CLAMPS, TOLCO FIG. 5 WITH FIG.330.

H. MULTIPLE OR TRAPEZE HANGERS

1. TRAPEZE HANGERS SHALL BE CONSTRUCTED FROM 12 GAUGE ROLL FORMED STEEL CHANNEL, 1–5/8" X 1–5/8" MINIMUM, TOLSTRUT A12 STRUT OR STRONGER AS REQUIRED.

2. MOUNT PIPES TO STRUT CHANNEL TRAPEZE WITH TWO PIECE PIPE STRAPS SIZED FOR OUTSIDE DIAMETER OF PIPE, TOLSTRUT FIG. E2900, RIGID, O.D. OR UNIVERSAL PIPE CLAMPS AS REQUIRED.

3. FOR PIPES SUBJECT TO AXIAL MOVEMENT: STRUT MOUNTED ROLLER SUPPORT, TOLSTRUT FIG. ROL 12, 13, 14, 15 OR 16 AS REQUIRED. USE PIPE PROTECTION SHIELD OR SADDLES ON INSULATED LINES. TOLCO FIG. 220 OR FIG. 260–265.

I. VERTICAL SUPPORTS: STEEL RISER CLAMP SIZED TO FIT OUTSIDE DIAMETER OF PIPE, TOLCO FIG. 6.

J. COPPER TUBING SUPPORTS:

1. HANGERS SHALL BE SIZED TO FIT COPPER TUBING OUTSIDE DIAMETERS.

A. ADJUSTABLE STEEL SWIVEL BAND HANGER, TOLCO FIG. 202.

B. MALLEABLE IRON RING HANGER, TOLCO FIG. 301CT.

C. ADJUSTABLE STEEL CLEVIS HANGER, TOLCO FIG. 81.

K. PLASTIC PIPE SUPPORTS: ADJUSTABLE BAND HANGER, PVC COATED WITH PLASTIC LINING, TOLCO FIG. 203, V–BOTTOM CLEVIS HANGER WITH A "V" TROUGH SUPPORT, TOLCO FIG. 199 AND FIG. 1VT TO PROVIDE CONTINUOUS SUPPORT FOR FLEXIBLE PLASTIC PIPE.

L. SUPPLEMENTARY STRUCTURAL SUPPORTS: DESIGN AND FABRICATE SUPPORTS USING STRUCTURAL QUALITY STEEL BOLTED FRAMING MATERIALS AS MANUFACTURED BY TOLCO, INC.: CHANNELS SHALL BE ROLL FORMED, 12 GAUGE STEEL, 1–5/8" X 1–5/8" OR GREATER AS REQUIRED BY LOADING CONDITIONS. SUBMIT DESIGNS FOR PIPE TUNNELS, PIPE GALLERIES, ETC., TO ENGINEER FOR APPROVAL. USE CLAMPS AND FITTINGS DESIGNED FOR USE WITH THE STRUT SYSTEM.

M. UPPER ATTACHMENTS

1. BEAM CLAMPS

A. BEAM CLAMPS SHALL BE USED WHERE PIPING IS TO BE SUSPENDED FROM BUILDING STEEL. CLAMP TYPE SHALL BE SELECTED ON THE BASIS OF LOAD TO BE SUPPORTED, AND LOAD CONFIGURATION.

B. C–CLAMPS SHALL HAVE LOCKNUTS AND CUP POINT SET SCREWS, TOLCO FIG. 64. REVERSIBLE TOP OR BOTTOM FLANGE C–CLAMPS SHALL BE USED WHEN ATTACHING A HANGER ROD TO THE TOP OF FLANGE OF STRUCTURAL SHAPES, TOLCO FIG. 65 AND FIG. 66. RETAINING STRAPS SHALL BE USED TO MAINTAIN THE CLAMPS POSITION ON THE BEAM WHERE REQUIRED.

C. CENTER LOADED BEAM CLAMPS SHALL BE USED WHERE SPECIFIED. STEEL CLAMPS SHALL BE TOLCO FIG. 62, MALLEABLE IRON OR FORGED STEEL BEAM CLAMPS WITH CROSS BOLT SHALL BE TOLCO FIG. 329.

N. VIBRATION ISOLATION AND SUPPORTS

1. FOR REFRIGERATION, AIR CONDITIONING, HYDRAULIC, PNEUMATIC, AND OTHER VIBRATING SYSTEM APPLICATIONS, USE A CLAMP THAT HAS A VIBRATION DAMPENING INSERT AND A NYLON INSERTED LOCKNUT. FOR COPPER AND STEEL TUBING USE TOLSTRUT CUSHION CLAMP.

2. FOR LARGER TUBING OR PIPING SUBJECTED TO VIBRATION, USE NEOPRENE OR SPRING HANGERS AS REQUIRED, OR AS SPECIFIED ELSEWHERE.

3. FOR BASE MOUNTED EQUIPMENT USE VIBRATION PADS, MOLDED NEOPRENE MOUNTS, OR SPRING AS REQUIRED. REFER TO DRAWINGS FOR REQUIREMENTS.

N. ACCESSORIES

1. HANGER RODS SHALL BE THREADED BOTH ENDS, OR CONTINUOUS THREADED RODS OF CIRCULAR CROSS SECTION TOLCO FIG. 100 OR FIG. 103. USE ADJUSTING LOCKNUTS AT UPPER ATTACHMENTS AND HANGERS. NO WIRE, CHAIN, OR PERFORATED STRAPS ARE ALLOWED.

2. SHIELDS SHALL BE 180° GALVANIZED SHEET METAL, 12 INCH MINIMUM LENGTH, 18 GAUGE MINIMUM THICKNESS, DESIGNED TO MATCH OUTSIDE DIAMETER OF THE INSULATED PIPE, TOLCO FIG. 220.

P. INDOOR FINISHES

1. HANGERS AND CLAMPS FOR SUPPORT OF BARE COPPER PIPING SHALL BE COATED WITH COPPER COLORED EPOXY PAINT. ADDITIONAL PVC COATING OF THE EPOXY PAINTED HANGER SHALL BE USED WHERE NECESSARY.

2. HANGERS FOR OTHER THAN BARE COPPER PIPE SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633 – SC3.

3. STRUT CHANNELS SHALL BE PRE–GALVANIZED IN ACCORDANCE WITH ASTM A653 G90.

Q. OUTDOOR AREA FINISHES

1. HANGERS AND STRUT LOCATED OUTDOORS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. ALL HANGER HARDWARE SHALL BE HOT DIP GALVANIZED. ZINC PLATED HARDWARE IS NOT ACCEPTABLE FOR OUTDOOR OR CORROSIVE USE.

2.07 PIPE PROTECTION:

A. POLYETHYLENE COATING: EXTRUDED POLYETHYLENE COATING, X–TRU–COAT, OR FACTORY APPLIED AND HDPE, BAYCHEM "THERMOFIT" POLYETHYLENE SLEEVE JOINTS, OR FIELD WRAP AS IN B.

B. TAPE WRAP: PRESSURE SENSITIVE POLYVINYL CHLORIDE TAPE, "IRANTEX #V–10 OR V–20", "SCOTCHRAP #50", SLIPKNOT 100, OR EQUAL. PROVIDE PRIMER AS IDENTIFICATION. TAPE SHALL BE A MINIMUM OF 20 MILS THICK FOR FITTINGS AND IRREGULAR SURFACES, 2 WRAPS, 50% OVERLAP, 40 MILS TOTAL THICKNESS. TAPE SHALL BE LAMINATED WITH A SUITABLE ADHESIVE, WIDTHS AS RECOMMENDED BY THE MANUFACTURER FOR THE PIPE SIZE. WRAP 6" OR LONGER SECTIONS OF PIPING WITH AN APPROVED WRAPPING MACHINE.

C. PABCO WRAP: PABCO SPECIFICATIONS #D–40–240K DOUBLE WRAP, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PVC AS IN B. USE PIPE WRAP WITH A MINIMUM OF 1/4" AND STAGGER THE SECOND LAYER. ALL PABCO PIPE WRAPPING SHALL BE DONE BY THE MANUFACTURER'S AGENT AND NOT BY THE CONTRACTOR, EXCEPT FOR FIELD JOINTS.

D. FIELD JOINTS AND FITTINGS: PABCO DOUBLE WRAP AND POLYVINYL CHLORIDE TYPE AS ABOVE. PROVIDE AT LEAST 2 THICKNESSES OF TAPE OVER THE JOINT AND EXTEND A MINIMUM OF 4" OVER ADJACENT PIPE COVERING. BUILD UP WITH PRIMER TO MATCH ADJACENT COVERING THICKNESS. WIDTH OF TAPE ON PIPE WRAP SHALL NOT EXCEED 2". TAPE SHALL ADHERE TIGHTLY TO SURFACE OF FITTINGS, WITHOUT AIR POCKETS.

2.08 ACCESS DOORS:

A. MILCOR, NEWMAN, OR EQUAL, WITH CONCEALED HINGES, SCREWDRIVER LOCKS. PRIME COATED WITH RUST INHIBITIVE PAINT, AND STYLE OF DOOR TO SUIT CEILING OR WALL CONSTRUCTION. ACCESS DOORS IN ACOUSTICAL TILE CEILINGS SHALL BE "SESAME" WITH TILE RECESS. DOORS SHALL BE 14 GAGE C.R. STEEL AND SHALL BE 22" X 30", 24" X 24" IN TILE CEILING, UNLESS OTHERWISE NOTED OR REQUIRED, FIRE RATED TO MATCH RATING OF SURFACE IN WHICH INSTALLED. DOORS IN WALLS OF TOILET ROOMS, SHALL BE STAINLESS STEEL.

2.09 STRAINERS:

A. CHARLES M. BAILEY #100A, ARMSTRONG, MUESSCO FIG. 11, OR EQUAL, "Y" PATTERN, 125 PSI W.P. MINIMUM, WITH MONEL SCREENS WITH 20 SQUARE MESH FOR 2" AND SMALLER AND 3/64" PERFORATIONS FOR 2–1/2" AND LARGER. INSTALL ALL STRAINERS WITH A BLOW OFF HOSE VALVE WITH HOSE ADAPTOR. STRAINER SHALL HAVE GASKETED COVER WITH STRAIGHT THREAD.

2.10 INSULATION

A. REFER TO PART 3.

2.12 FLASHING:

A. ALL FLASHINGS SHALL BE MADE OF FOUR POUND SHEET LEAD WITH 8" MINIMUM SKIRT, SEMCO 51100–2 OR 51100–W, STONEMAN #1110–

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

SECTION 15400 - PLUMBING AND UTILITIES

SECTION 15400 – PLUMBING AND UTILITIES

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK:

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND DIVISION 1 APPLY TO ALL WORK HEREUNDER; ALSO, APPLICABLE PROVISIONS OF SECTION 15010 MECHANICAL WORK – GENERAL REQUIREMENTS.

B. FURNISH AND INSTALL ALL PLUMBING WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. ALSO, ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED NECESSARY TO PROVIDE THE COMPLETE SYSTEM.

1.02 SERVICES:

A. MAKE ALL ARRANGEMENTS FOR THE UTILITIES REQUIRED. PAY ALL COSTS INVOLVED IN OBTAINING THE SERVICES, INCLUDING GAS SERVICE AND METER, WATER METER AND ACCESS BOX, STREET WORK, IN LIEU FEES FOR SEWER, ETC.

B. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COST SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN.

C. DETERMINE STORM AND SANITARY SEWER ELEVATION AT POINT OF CONNECTION BEFORE INSTALLING ANY SEWER PIPING. NOTIFY ARCHITECT IMMEDIATELY IF INDICATED GRADES CANNOT BE MAINTAINED.

1.03 RECORD DRAWINGS:

A PRINT OF THE PLUMBING PLAN SHOWING UNDERGROUND PIPING WILL BE FURNISHED BY THE CONTRACTOR ON WHICH HE SHALL INDICATE THE LOCATIONS OF THE UNDERGROUND INSTALLATIONS AS THE WORK PROGRESSES. THIS SHALL BE RETURNED TO ARCHITECT AT COMPLETION OF JOB.

PART 2 – PRODUCTS

2.01 CLEANOUTS:

A. CLEANOUTS SHALL BE "T" OR "Y" BRANCHES OR TRAP HUBS OF SAME MATERIAL AS PIPE IN WHICH THEY ARE PLACED. CLEANOUTS IN CAST IRON LINES SHALL HAVE CAST IRON BODIES AND BRASS PLUGS. CLEANOUTS IN FLOORS AND SIDEWALKS SHALL BE JOSAM 56010 OR 56030 FOR CERAMIC TILE FLOORS WITH MOLDED BRONZE COVERS. CLEANOUTS IN VERTICAL LINES SHALL BE JOSAM 58710. FURNISH CLEANOUTS AT ENDS OF BRANCH LINES AND AT THE BASE OF VERTICAL LINES, AT CHANGES IN DIRECTION AND WHERE SHOWN OR REQUIRED TO FACILITATE CLEANING. A MAXIMUM SPACING OF 50 FEET INSIDE BUILDINGS, 100 FEET OUTSIDE, ALSO IN WASTE DROP FROM EACH SINK. CLEANOUT TO GRADE SHALL BE SET IN A 14" X 14" X 5" DEEP CONCRETE PAD, TROWEL SMOOTH AND EDGE; SET FLUSH WITH FINISHED GRADE. CLEANOUTS TO BE FULL SIZE OF LINE UP TO A MAXIMUM OF 4". CLEANOUTS SHALL CLEAR ALL OBSTRUCTIONS BY 18" MINIMUM. FURNISH TO OWNER ONE WRENCH FOR EACH SIZE AND TYPE OF CLEANOUT USED. PERMANENTLY IDENTIFY EXTERIOR CLEANOUTS: SS FOR SANITARY SEWER, SD FOR STORM DRAIN.

2.02 PIPE AND FITTINGS INSIDE BUILDING:

A. SEE GENERAL REQUIREMENTS, SECTION 15010, FOR DIELECTRIC FITTINGS AND PIPE PROTECTION. TERMINATE 5'-0" OUTSIDE THE BUILDING LINE OR WHERE MARKED.

B. SOIL, STORM, WASTE AND VENT PIPE UNDERGROUND AND TO 6' ABOVE GROUND: SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASPHALTIC COATED, CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #301 ASTM A-888 OR ASTM A-74 AND SO STAMPED. JOINTS SHALL BE NO-HUB CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #310; 71-SEAL OR EQUAL WITH GASKETS CONFORMING TO ASTM C 564 AND ASTM A74. SUSPENDED PIPE WITH NO-HUB JOINTS SHALL HAVE A SWAYBRACE AT 20'-0" MAXIMUM SPACING.

C. WASTE AND VENT PIPE ABOVE GROUND FROM LAVATORIES OR SINKS, FOUNTAIN LEADERS AND OVERFLOWS ABOVE THE FLOOR: CAST IRON SOIL PIPE AND FITTINGS WITH NO HUB JOINTS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A-888 OR ASTM A-74 FOR ALL PIPE AND FITTINGS. JOINTS SHALL CONFORM TO CISPI 310 AND FOR ALL PIPE AND FITTINGS SHALL BE COUPLING AND SHIELD, CLAMP ASSEMBLY AND ELASTOMERIC SLEEVE TO SUIT. THE COMPRESSION TUBING AND FITTINGS IS ACCEPTABLE WHEN APPROVED. CONDENSATE DRAINS SHALL BE TYPE L OR TYPE DWV HARD COPPER, WITH LONG SWEEP ELBOWS AND CLEANOUT TEES AT CHANGE IN DIRECTION. CONNECT CONDENSATE DRAINS TO AIR CONDITIONING UNITS WITH P-TRAP AND RUN TO AN APPROVED RECEPTOR AND DRY WELL.

D. WATER PIPE (HOT AND COLD WATER): TYPE L COPPER TUBING, HARD TEMPER, WITH WROUGHT COPPER FITTINGS. CAPPED OR PLUGGED OUTLETS SHALL BE SCHEDULE 40 SCREWED BRASS. PROVIDE FULL SOLDER CUP FITTINGS.

2.03 PIPE AND FITTINGS OUTSIDE BUILDINGS:

A. SEE GENERAL REQUIREMENTS SECTION FOR DIELECTRIC FITTINGS AND PIPE CORROSIVE PROTECTION. CONNECT TO BUILDING SERVICES WHERE TERMINATED 5' OUTSIDE BUILDING LINE.

B. SANITARY AND STORM DRAIN PIPE: FIRST QUALITY, EXTRA STRENGTH, BELL AND SPIGOT CLAY SEWER PIPE ASTM #C-700-789 WITH FITTINGS CONFORMING TO ASTM C425-T, J-M PVC SEWER PIPE AND FITTINGS WITH RING-TITE JOINTS, ASTM D3034 SDR 35, OR SERVICE WEIGHT CAST IRON WHERE MARKED.

C. WATER PIPE IN GROUND 2" AND LARGER: SCHEDULE 40 GALVANIZED STEEL. FITTINGS SHALL BE THREADED GALVANIZED MALLEABLE IRON TO SIZES 4" AND SMALLER. J-M RING-TITE PVC, OR EQUAL, CONFORMING TO ASTM D2241-SDR21, CLASS 200 WITH RING-TITE FITTINGS OR DUCTILE IRON MECHANICAL JOINT COUPLINGS MAY BE USED BELOW GROUND AS ALLOWED BY LOCAL CODES OR TYPE K COPPER WITH WROUGHT COPPER FITTINGS AT THE CONTRACTORS OPTION. SIZES 1-1/2" AND SMALLER SHALL BE TYPE K COPPER TUBING, HARD TEMPER, WITH WROUGHT COPPER FITTINGS.

2.04 WATER HEATER:

A. CONNECT TO THE HOT AND COLD WATER LINES WITH A GATE VALVE, CHECK VALVE, J.R. SMITH #5000 HYDROTROL UNION IN THE COLD WATER LINE AND A 3/4" ASME STANDARD PRESSURE AND TEMPERATURE RELIEF VALVE AND UNION HOT WATER LINE AT THE HEATER. RELIEF VALVE DIP TUBE SHALL EXTEND TO WITHIN 3" OF TANK.

B. DIP TUBES, SUPPLY AND HOT WATER NIPPLES, SUPPLY WATER BAFFLES OR HEAT TRAPS USED IN THE CONSTRUCTION OF THE TANK SHALL BE MADE TO WITHSTAND A TEMPERATURE OF 400 DEGREES F. WITHOUT DETERIORATING IN ANY MANNER AND THE OUTSIDE OF THE TANK JACKET SO LABELED.

C. HEATER SHALL HAVE A GLASS LINED STEEL TANK.

E. ELECTRIC: UNDERWRITER LABELED AUTOMATIC ELECTRIC WATER HEATER OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS WITH HIGH TEMPERATURE CUTOFF. HEATER SHALL BE ON THE APPROVED LIST OF THE STATE OF CALIFORNIA AND COMPLY WITH TITLE 24 ENERGY REQUIREMENTS.

2.05 FIXTURES AND TRIM:

A. DESIGNATIONS ARE AMERICAN STANDARD UNLESS NOTED. KOHLER, ELJER, ARE ACCEPTABLE IF EQUAL IN UTILITY, QUALITY AND APPEARANCE.

B. P-TRAPS FOR LAVATORIES AND SINKS SHALL BE 17-GAUGE CHROME PLATED BRASS, ADJUSTABLE. PROVIDE OFSET P-TRAPS FOR HANDICAPPED SINKS IN ORDER TO MAINTAIN ADA CLEARANCES.

C. CONCEALED STOPS SHALL BE 1/2" SPEEDWAY SSR44, LOCK SHIELD VALVES. 3/4" STOPS SHALL BE DCK BROS. #3150-LK. EXPOSED STOPS AND SUPPLIES SHALL BE 1/2" SPEEDWAY #537124 FOR LAVS, 537120L FOR WATER CLOSETS WITH IPS INLET, LOCK SHIELD, LOOSE KEY.

D. INSULATE DOMESTIC WATER AND WASTE PIPING BELOW HANDICAPPED PLUMBING FIXTURES WITH MOLDED PIPE INSULATION FOAM SINGLE PIECE REMOVABLE INSULATION COVERS, HANDI LAV-GUARD OR EQUAL. CONFORM WITH ADA REQUIREMENTS.

E. INSTALL VALVE LEVER ON HANDICAP WATER CLOSETS ON WIDE SIDE OF FIXTURE.

F. OPERATING HANDLE OR VALVE FOR HANDICAPPED FIXTURES SHALL OPERATE WITH LESS THAN 5 POUNDS FORCE.

PART 3 – EXECUTION

3.01 SERVICES:

A. MAKE ALL ARRANGEMENTS FOR THE UTILITIES REQUIRED. PAY ALL COSTS INVOLVED IN OBTAINING THE SERVICES INCLUDING GAS SERVICE AND METER, WATER METER, PRESSURE REDUCING VALVE, ACCESS BOXES, STREET WORK.

B. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COST SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN.

3.02 RECORD DRAWINGS:

A. A PRINT OF THE PLUMBING PLAN SHOWING UNDERGROUND PIPING WILL BE FURNISHED TO THE CONTRACTOR ON WHICH HE SHALL INDICATE THE LOCATIONS OF THE UNDERGROUND INSTALLATIONS AS THE WORK PROGRESSES. THIS SHALL BE RETURNED TO THE ARCHITECT AT COMPLETION OF JOB.

3.03 DISINFECTION:

A. CLEAN AND DISINFECT: ALL HOT AND COLD WATER SYSTEMS CONNECTED TO DOMESTIC WATER SYSTEMS IN ACCORDANCE WITH AWWA STANDARD C651-92 AND AS REQUIRED BY THE LOCAL BUILDING AND HEALTH DEPARTMENT CODES. THIS PROCEDURE SHALL BE PERFORMED BY A WATER TREATMENT COMPANY THAT HAS A CURRENT CAL-EPA LICENSE TO APPLY DISINFECTANT CHLORINE IN POTABLE WATER.

B. PRELIMINARY PREPARATION: PROVIDE A 1" SERVICE COCK OR VALVE CONNECTED TO SYSTEM AT A POINT WITHIN 2'-0" OF ITS JUNCTION WITH WATER SUPPLY LINE AND INSTALL DISINFECTING AGENT INTO SYSTEM THROUGH THIS COCK. WHEN PROJECT IS COMPLETE, WITH ALL FIXTURES CONNECTED AND OPERABLE AND READY FOR USE AND WHEN, BY TEST, SYSTEM IS PROVED TO BE FREE FROM LEAKS, IT SHALL BE THOROUGHLY FLUSHED BY FULLY OPENING EVERY OUTLET AND OPERATING EVERY FIXTURE UNTIL CLEAR WATER FLOWS FROM ALL OF THEM.

C. DISINFECTING AGENT: THE CHLORINE SHALL BE A REGISTERED PRODUCT WITH CAL-EPA FOR USE IN CALIFORNIA IN POTABLE WATER LINES, SUCH AS BACTICIDE, CAL-EPA REGISTRATION NO. 37962-20001.

D. DISINFECTING PROCEDURE: CONNECT A HAND OPERATED PUMP, 100 PSI RATING, MINIMUM TO THE 1" SERVICE COCK OR VALVE.

1. WITH SYSTEM COMPLETELY FULL OF WATER AND SUPPLY VALVE OPEN, ADJUST EVERY AQUA CLEFFEY SYSTEM SO THAT A TRICKLE OF WATER FLOWS FROM EACH.

2. INJECT DISINFECTANT UNTIL AN ORTHOTOLIDIN TEST AT EACH OUTLET SHOWS A CHLORINE RESIDUAL CONCENTRATION OF AT LEAST 50 PARTS PER MILLION (P.P.M.).

3. CLOSE ALL OUTLETS AND VALVES, INCLUDING VALVE CONNECTING TO SUPPLY LINE AND 1" SERVICE COCK ON SOLUTION INJECTION CONNECTION. MAINTAIN CONDITION FOR 24 HOURS AND CHLORINE RESIDUAL OF 50 P.P.M. SHOULD BE RETAINED IN SYSTEM FOR THIS 24 HOUR PERIOD. IF, AFTER 24 HOURS, ORTHOTOLIDIN TESTS INDICATE THAT CHLORINE RESIDUAL CONCENTRATION HAS DECREASED BELOW 50 P.P.M. THEN DISINFECTION PROCEDURE MUST BE REPEATED UNTIL AN APPROVED RESULT IS OBTAINED.

4. WHEN THE ABOVE PROCEDURE HAS BEEN COMPLETED, FLUSH OUT ENTIRE SYSTEM WITH FRESH WATER UNTIL AN ORTHOTOLIDIN TEST AT ANY OUTLET SHOWS A RESIDUAL OF NOT MORE THAN 0.5 P.P.M.

5. WARNING SIGNS SHALL BE PROVIDED AT ALL OUTLETS WHILE CHLORINATING THE SYSTEM.

3.04 PIPING CONNECTION:

A. MINIMUM GRADE ON DRAIN, VENT, AND WASTE PIPING SHALL BE 1/4" PER FOOT UNLESS NOTED, OR LATER APPROVED. VENT PIPING SHALL BE GRADED TO A SOIL OR WASTE LINE.

B. CONNECTIONS FROM STACKS OR HORIZONTAL WASTES TO WALL OR FLOOR FINISH FOR WASTES FROM LAVATORIES, URINALS, SINKS, AND DRINKING FOUNTAINS AND CONNECTION BETWEEN FLOOR DRAINS AND TRAPS SHALL BE IPS BSN RED BRASS PIPE.

C. SPECIAL EQUIPMENT:

1. CERTAIN ITEMS OF EQUIPMENT WILL BE FURNISHED AND SET IN PLACE UNDER A SEPARATE SECTION OF SPECIFICATIONS; FURNISH ALL SUPPORTS AND SINK FITTINGS AND WASTE TRAP IF REQUIRED.

2. MAKE COLD AND HOT WATER, DRAIN, VENT, AND OTHER REQUIRED CONNECTIONS TO ALL THE EQUIPMENT. EACH WATER CONNECTION SHALL HAVE A VALVE AND UNION IN THE LINE, UNLESS NOTED OTHERWISE.

3. SIZES AND LOCATIONS OF CONNECTION TO SPECIAL EQUIPMENT ARE SHOWN FOR EQUIPMENT MADE BY CERTAIN MANUFACTURERS. SECURE ROUGH-IN DATA FROM THE MANUFACTURER FOR THE EQUIPMENT TO BE INSTALLED AND ROUGH-IN ACCORDINGLY. FINAL CONNECTIONS SHALL CONFORM TO THE MANUFACTURER'S DIRECTIONS FOR THE EQUIPMENT FURNISHED AT NOT EXTRA COST TO THE OWNER.

D. TRAP PRIMERS: PROVIDE A TRAP PRIMER FOR EACH INDIRECT WASTE RECEPTACLE NOT RECEIVING DISCHARGE FROM A PLUMBING FIXTURE.

3.05 CLEANOUTS:

A. FURNISH CLEANOUTS AT ENDS OF BRANCH LINES, AT THE BASE OF VERTICAL LINES, AT CHANGES IN DIRECTION AND WHERE SHOWN OR REQUIRED TO FACILITATE CLEANING. A MAXIMUM SPACING OF 50 FEET INSIDE BUILDINGS, 100 FEET OUTSIDE, ALSO IN WASTE DROP FROM EACH SINK. CLEANOUT TO GRADE SHALL BE SET IN A 14" X 14" X 5" DEEP CONCRETE PAD, TROWEL SMOOTH AND EDGE; SET FLUSH WITH FINISHED GRADE. CLEANOUTS TO BE FULL SIZE OF LINE UP TO A MAXIMUM OF 6". CLEANOUTS SHALL CLEAR ALL OBSTRUCTIONS BY 18" MINIMUM. FURNISH TO OWNER ONE WRENCH FOR EACH SIZE AND TYPE OF CLEANOUT USED. PERMANENTLY IDENTIFY CLEANOUTS: SS FOR SANITARY SEWER, SD FOR STORM DRAIN.

3.06 FIXTURES AND TRIM:

A. INSTALL ALL FIXTURES AT LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS. PROVIDE PROPER BACKING FOR HANGING BRACKETS AND HOLD DOWN SCREWS 2 X 6 BLOCKING SECURED WITH U-LOK CLIPS OR CARRIERS AS SPECIFIED. GROUT VOIDS BETWEEN ALL FIXTURES AND ADJACENT SURFACES WITH CLEAR DOW SILICON SEALANT. INSTALL HOLD DOWN SCREWS AND WALL HUNG LAVATORIES.

B. ALL EXPOSED PIPING, BIBBS, STOPS, FAUCETS, TRAPS, FLUSH VALVES AND OTHER TRIM FOR ALL FIXTURES SHALL BE CHROME PLATED INCLUDING PIPING INSIDE SINK CABINETS. PROVIDE HUDEE RIM FOR ALL COUNTER TYPE SINKS AND LAVATORIES. ENAMELED WARE SHALL BE CAST IRON WITH ACID RESISTING ENAMEL.

C. PROVIDE BSR OR IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CONNECTION TO FAUCETS, FLUSH VALVES, STOPS, HOSE BIBBS, ETC. EACH FIXTURE EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS.

D. INSTALLATION FOR HANDICAP ACCESSIBLE FIXTURES SHALL CONFORM TO CHAPTER 11B OF CALIFORNIA PLUMBING CODE, SECTION 1115 B CALIFORNIA BUILDING CODE, AND ADA REQUIREMENTS.

E. PROVIDE WATER BRANCHES AT SINGLE PLUMBING FIXTURES WITH AIR CHAMBERS AT 12" LONG AND OF SAME DIAMETER PIPE AS BRANCHES. WHERE BATTERY OF FIXTURES ARE LOCATED IN A ROW OR BATTED, PROVIDE WATER SUPPLY MANIFOLD AT END OF BRANCH LINE WITH AIR CHAMBERS ONE PIPE SIZE LARGER THAN HEADER AND A MINIMUM 24" LONG INSTALLED ON END OF HEADER OR PLACE AIR CHAMBER AT EACH FIXTURE, OR PROVIDE WATER HAMMER ARRESTOR.

F. GAS PIPING BELOW COVERED WALKS AND WHERE NOTED ON DRAWINGS SHALL BE INSTALLED IN WATERTIGHT SCHEDULE 40 PVC CONDUIT. CONDUIT SHALL BE VENTED WHERE NOTED.

G. INSTALL RAINWATER LEADERS, OVERFLOW DRAINS AND ROOF DRAINS IN ACCORDANCE WITH THE ARCHITECTURAL DETAILS.

H. PROVIDE CHRISTY, BROOKS, OR EQUAL, CONCRETE PIT, WITH SIZE AS NOTED ON DRAWINGS, OR AS REQUIRED, FOR WATER METER AND DETECTOR CHECK VALVE.

I. PROVIDE SHUT OFF VALVE ON EACH GAS BRANCH LINE AT GAS METER.

J. PROVIDE EXPANSION JOINT IN GAS PIPING AT BUILDING SEISMIC JOINTS.

END OF SECTION

SECTION 15500 - AUTOMATIC FIRE PROTECTION SYSTEM

SECTION 15500 – AUTOMATIC FIRE PROTECTION SYSTEM

CONDITIONS OF THE CONTRACT AND DIVISION 1 APPLY TO THIS SECTION.

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS:

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND DIVISION 1 APPLY TO ALL WORK HEREUNDER; ALSO, APPLICABLE PROVISIONS OF SECTION 15010 MECHANICAL WORK – GENERAL REQUIREMENTS.

B. FURNISH AND INSTALL ALL PLUMBING WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. ALSO, ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED NECESSARY TO PROVIDE THE COMPLETE SYSTEM.

1.02 SCOPE:

A. THE CONTRACTOR SHALL FURNISH ALL LABOR, DESIGN DRAWINGS, CALCULATIONS, MATERIALS, TOOLS AND EQUIPMENT TO INSTALL THE WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM AS HEREINAFTER DESCRIBED, READY FOR SERVICE TO THE ENTIRE SATISFACTION OF THE ARCHITECT. SYSTEM SHALL BE DESIGNED FOR THE OCCUPANCY AS DETERMINED BY NFPA. A HYDRAULIC CALCULATED SYSTEM WILL BE ACCEPTABLE.

B. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE FOR COMPLETE AND OPERATING FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM IN FULL COMPLIANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 13, LATEST EDITION, AND CBC STANDARD 38-1. THE WORK SHALL ALSO BE IN ACCORDANCE WITH ALL LOCAL OR STATE REQUIREMENTS WHICH APPLY.

1.03 DRAWINGS:

A. ALL AREAS ABOVE AND BELOW THE FINISHED CEILINGS, EXTERIOR EXPOSURE, STAIRWAYS, ROOMS, AREAWAYS, ENTRY, ETC., AND OTHER AREAS REQUIRING SPRINKLERS SHALL BE ADEQUATELY PROTECTED. THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL ARCHITECTURAL AND OTHER DRAWINGS AS REQUIRED TO SATISFY THIS REQUIREMENT.

B. THE NUMBER OF HEADS INDICATED ON THE DRAWINGS SHALL NOT BE REDUCED. PROVIDE ANY ADDITIONAL HEADS REQUIRED TO OBTAIN APPROVALS.

1.04 APPLICABLE SPECIFICATIONS: THE FOLLOWING PUBLICATIONS FOR A PART OF THIS SPECIFICATION:

A. GENERAL: PER REQUIREMENTS IN 15010.

B. UNDERWRITERS' LABORATORIES, INC., (UL) PUBLICATIONS: LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS.

C. NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLETS: STANDARD OF THE NFPA FOR THE INSTALLATION OF SPRINKLER EQUIPMENT.

1.05 SUPERVISION:

A. KEEP A COMPETENT SUPERINTENDENT ON THE JOB WHO SHALL COORDINATE THE ACTIVITIES OF THE CRAFTS AND MAINTAIN THE PROGRESS OF THE WORK TO THE SATISFACTION OF THE ARCHITECT.

1.06 SITE CONDITIONS:

A. VERIFY ALL DIMENSIONS AT THE BUILDING SITE AND CHECK EXISTING CONDITIONS BEFORE BEGINNING WORK. MAKE CHANGES WHICH ARE NECESSARY TO INSTALL THE WORK IN HARMONY WITH OTHER CRAFTS, THEY SHALL BE FIRST APPROVED BY THE ARCHITECT.

1.07 REGULATIONS:

A. ALL WORK SHALL BE INSTALLED IN STRICT CONFORMITY WITH CALIFORNIA BUILDING CODE (CBC), CALIFORNIA PLUMBING CODE (CPC), AND CALIFORNIA ELECTRIC CODES (CEC), ALL INDUSTRIAL SAFETY ORDERS, CALIFORNIA MECHANICAL CODE (CMC), NATIONAL FIRE CODE (NFC), AND ANY OTHER LAWS AND REGULATIONS OF LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION.

1.08 FEES AND PERMITS:

A. TAKE OUT ALL PERMITS AND PAY ALL FEES AND CHARGES OF ANY KIND REQUIRED IN CONNECTION WITH THIS WORK.

1.09 TEMPORARY CONNECTIONS:

A. ALL TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICES DURING THE COURSE OF THIS CONTRACT SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. THE NORMAL FUNCTION OF THE BUILDING MUST NOT BE INTERRUPTED; NOTIFY THE OWNER SEVEN DAYS IN ADVANCE BEFORE DISTURBING ANY SERVICE.

1.10 QUALITY ASSURANCE:

A. QUALIFICATIONS OF INSTALLER: UNLESS THE CONTRACTOR HAS SUBSTANTIAL PREVIOUS EXPERIENCE WITH THE CLASS OF WORK, THE SYSTEM SHALL BE INSTALLED BY A SUBCONTRACTOR WHO SPECIALIZES IN THIS WORK.

1.11 SUBMITTALS:

A. SHOP DRAWINGS AND PRODUCT DATA:

1. SUBMIT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 01340.

2. SUBMIT SHOP DRAWINGS SHOWING THE LOCATION OF ALL SPRINKLER HEADS, PIPING, BRACING, HANGERS AND ANCHORS AND ALL NECESSARY WORKING DRAWINGS SHOWING COMPLETE DETAILS OF PIPING WITHIN THE BUILDING. DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF ANY WORK. THE DRAWINGS SHALL BE REVIEWED, STAMPED AND APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL AND/OR THE AUTHORITY HAVING JURISDICTION AFTER REVIEW BY THE ENGINEER.

B. OPERATIONS AND MAINTENANCE DATA:

1. SUBMIT IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 1.

C. INSTALLATION DRAWINGS: THE CONTRACTOR SHALL PREPARE INSTALLATION DRAWINGS FOR ALL PIPING AND EQUIPMENT, AND SHALL COORDINATE THEM WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND WITH DRAWINGS FOR WORK OF OTHER TRADES. THE CONTRACTOR SHALL OBTAIN TRANSPARENCIES OF REFLECTED CEILING PLANS FROM THE ENGINEER AND SHALL SHOW ALL HEAD LOCATIONS THEREON, AND SHALL SUBMIT THESE DRAWINGS WITH SPRINKLER LAYOUT DRAWINGS, TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL ALSO SUBMIT THESE DRAWINGS TO THE AUTHORITY HAVING JURISDICTION, AND OBTAIN THEIR APPROVALS. AFTER SUCH APPROVALS ARE OBTAINED, FURNISH FOUR SETS OF APPROVED INSTALLATION DRAWINGS TO THE ENGINEER.

PART 2 – PRODUCTS

2.01 GENERAL:

A. THE EQUIPMENT TO BE FURNISHED UNDER THIS SPECIFICATION SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER; HOWEVER, THE COMPONENT PARTS OF THE SYSTEM NEED NOT BE THE PRODUCTS OF THE SAME MANUFACTURER.

2.02 MATERIALS:

A. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SPECIFIED, OR DIRECTED BY THE ARCHITECT, ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THE SPRINKLER SYSTEMS SHALL BE LISTED AS APPROVED BY THE UL AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER. THE FOLLOWING MATERIALS SHALL CONFORM TO THE RESPECTIVE SPECIFICATIONS AND OTHER REQUIREMENTS SPECIFIED BELOW. ALL MATERIALS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.

B. WET SPRINKLER PIPE ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A-53, PIPE WITH UL APPROVED CAST IRON SCREWED SPRINKLER FITTINGS. UL APPROVED GROOVED FITTINGS AND COUPLINGS AT THE CONTRACTOR'S OPTION.

C. PIPE BELOW GRADE TO 12" ABOVE SHALL BE J.M BLUE BRUT PVC CLASS 150, C900, PIPE AND FITTINGS, UL LISTED, MAY BE USED UNDERGROUND, OUTSIDE THE BUILDING IF ALLOWED BY LOCAL CODES. PIPING BELOW THE BUILDING TO 6" ABOVE FINISHED FLOOR (WITHIN FIVE FEE OUTSIDE THE BUILDING FOOTPRINT) SHALL BE DUCTILE IRON PIPE WITH MECHANICAL RESTRAINT JOINTS IN ACCORDANCE WITH THE LOCAL JURISDICTION.

D. SPRINKLER HEADS:

1. IN GENERAL: PENDANT OR UPRIGHT HEADS, EXPOSED PATTERN ON EXPOSED PIPING; FUSING ELEMENT TEMPERATURE RATINGS PER NFPA PAMPHLET NO. 13 REQUIREMENTS.

2. IN AREAS WITH SUSPENDED CEILINGS: SEMI-RECESSED STYLE HEADS, WITH INTEGRAL ESCUTCHEON, SEMI "AQUARIUS", OR EQUAL; C.P. FINISH; FUSING ELEMENT TEMPERATURE RATINGS PER NFPA 13 REQUIREMENTS.

3. SIDEWALL: HORIZONAL, SIDE WALL STAN-CHROME FINISH WITH CHROME ESCUTCHEON; VIKING MODEL C4, CENTRAL MODEL H OR HF.

4. WIRE GUARDS: FACTORY-FABRICATED; CLAMP-ON TYPE.

5. HEADS IN EQUIPMENT ROOMS, STORAGE ROOMS AND ELECTRICAL ROOMS SHALL BE FURNISHED WITH CHROME-PLATED WIRE GUARDS. HEADS IN UNFINISHED SPACES SUCH AS MECHANICAL ROOMS MAY BE BRONZE FINISH.

6. SPARE HEADS: THE CONTRACTOR SHALL FURNISH SPARE HEADS EQUAL TO ONE PERCENT OF THE TOTAL NUMBER OF HEADS INSTALLED UNDER CONTRACT, BUT NOT LESS THAN 12. THE HEADS SHALL BE INSTALLED IN A SUITABLE CABINET AND SHALL BE REPRESENTATIVE OF, AND IN PROPORTION TO, THE NUMBER OF EACH TYPE AND TEMPERATURE RATING HEAD INSTALLED, AT LEAST ONE OF EACH. IN ADDITION TO THE SPARE HEADS, THE CONTRACTOR SHALL FURNISH NOT LESS THAN TWO SPECIAL SPRINKLER HEAD WRENCHES. CABINET SHALL BE CONSTRUCTED OF MINIMUM 20-GAUGE COLD-ROLLED STEEL, WITH 16-GAUGE SHELVES AND SHALL BE EQUIPPED WITH LOCK.

E. HANGERS AND PIPE RINGS, SWAY BRACING AND SUPPORTS: PER NFPA STANDARD NO. 13 AND AS FOLLOWS:

1. MANUFACTURER: GRINNELL OR CARPENTER & PATTERSON.

2. TYPES: ROD TYPE, WITH ADJUSTABLE MALLEABLE IRON OR FORMED STEEL PIPE RINGS; CADMIUM-PLATED, PRIME PAINTED OR GALVANIZED HANGER RODS AND PIPE RINGS; THREADED HOT ROLLED STEEL OR CONTINUOUSLY THREADED HANGER RODS. HANGER ROD COUPLINGS ARE NOT ACCEPTABLE.

3. EMBEDDED INSERTS: MALLEABLE IRON, EMBEDDED DURING CONSTRUCTION FOR ALL HANGERS.

F. MISCELLANEOUS CONNECTIONS AND FITTINGS: AS REQUIRED BY NFPA PAMPHLET NO. 13 AND NFPA NO. 14. PROVIDE ALL DRAINS; INSPECTOR'S TEST FITTINGS; DISCHARGE OUTLETS AND FLUSHING CONNECTIONS; SWAY BRACING; FLEXIBLE JOINTS WITH GROOVED-END PIPE AND FITTINGS.

G. FIRE DEPARTMENT INLET CONNECTION: REFER TO CIVIL SITE REQUIREMENTS.

H. ZONE CONTROL VALVES: UL APPROVED, OUTSIDE SCREW AND YOKE OR BUTTERFLY. VALVES SHALL BE SEALED OPEN WITH APPROVED SEAL. VALVES SHALL HAVE TAMPER SWITCH.

I. DRAIN VALVES: ANGLE, STRAIGHTWAY, VIKING, OR EQUAL.

J. WATER FLOW INDICATOR FOR LOCAL ALARM: UL APPROVED SUITABLE FOR VARIABLE PRESSURE, COMPLETE WITH INSTANTANEOUS RECYCLING RETARD AND ELECTRICAL CONTACTS FOR ALARM SYSTEM (NUMBER AS REQUIRED).

K. ANGLE, CHECK AND GLOBE VALVES FOR FIRE SPRINKLER SERVICE: FEDERAL SPECIFICATION WW-V-51, CLASS A, TYPE AS SUITABLE FOR APPLICATION, VIKING, OR EQUAL.

L. BACKFLOW PREVENTER: REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, WILKINS, FEBCO OR EQUAL.

PART 3 – EXECUTION

3.01 GENERAL

A. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF EXISTING SPRINKLER SYSTEM, IF ANY) HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION.

1. ALL PIPING SHALL BE CONCEALED UNLESS SHOWN OR OTHERWISE DIRECTED.

2. WHERE PIPING IS LEFT EXPOSED WITHIN A ROOM, THE SAME SHALL BE RUN TRUE TO PLUMB, HORIZONTAL OR INTENDED PLANES. WHERE POSSIBLE, UNIFORM MARGINS ARE TO BE MAINTAINED BETWEEN PARALLEL LINES AND/OR ADJACENT WALL FLOOR OR CEILING SURFACES.

3. HORIZONTAL RUNS OF PIPES AND/OR ELECTRICAL CONDUIT SUSPENDED FROM CEILINGS SHALL PROVIDE FOR A MAXIMUM HEADROOM CLEARANCE. THIS CLEARANCE SHALL NOT BE LESS THAN 7'-0" WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.

4. MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, ETC., FROM LOCATIONS SHOWN SHALL BE MADE WHEN DIRECTED BY THE ARCHITECT AT NO

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

PLUMBING FIXTURE SCHEDULE

DF-1	ELECTRIC WATER COOLER, "ELKAY" LZWS-LRPBM28K, HI-LO WITH BOTTLE FILLER, 12" IN-WALL, FILTERED WATER, STAINLESS STEEL, 115V-1PH, 370 WATT, FLA 1.0, R134a REFRIGERANT, PROVIDE SUPPLY AND STOP, ADA. COMPLIANT.
FD-1	FLOOR DRAIN, "SMITH" 2005, 5" DIA., NB TOP, CAST IRON BODY, TRAP PRIMER CONNECTION.
HB-1	HOSE BIBB, "WOODFORD" MODEL B74, LOCKING COVER, VACUUM BREAKER, LOOSE KEY
L-1	LAVATORY, "AMERICAN STANDARD" 0483.000 19¾"Wx13¾" RECTANGLE, UNDER COUNTER MOUNT, VITREOUS CHINA, ELECTRONIC BATTERY OPERATED FAUCET 7025103.002, 0.35 GPM, GRID STRAINER, PROVIDE SUPPLIES STOPS AND 17 GA. CHROME PLATED BRASS P-TRAP, ADA COMPLIANT. PROVIDE TRUBRO LAV GUARD AT WATER AND WASTE PIPING.
L-2	LAVATORY: WALL MOUNTED AMERICAN STANDARD 0955.001EC, 21.25X20.5 VITREOUS CHINA, ELECTRONIC BATTERY OPERATED FAUCET 7025103.002, 0.35 GPM, PROVIDE 0062.000 SHROUD, PROVIDE WALL HANGAR WITH FLOOR FEET ZURN Z1231, PROVIDE RISERS, STOPS, AND TAILPIECE. ADA COMPLIANT. PROVIDE TRUBRO LAV GUARD AT WATER AND WASTE PIPING.
MS-1	MOP SINK: "FLORESTONE" 95, NEO ANGLE DROP FRONT, 3" INTEGRAL DRAIN WITH 18 GA. STAINLESS STEEL GRID, MR-371 FAUCET WITH VACUUM BREAKER AND BUCKET HOOK, MR-372 MOP HANGER WITH 3 CLAMPS, AND MR-370, 30" HOSE WITH SS CLAMP. PROVIDE SUPPLIES AND STOPS.
S-1	ELKAY MODEL LRAD191855, SELF RIMMING COUNTER MOUNTED SINK, 18 GAUGE TYPE 304 STAINLESS STEEL, 19"x18" SINGLE COMPARTMENT UNIT WITH 16"x11½"x5½" DEEP BOWL, SYMMONS SINGLE HANDLE FAUCET MODEL S-23-1.0, LEAD-FREE, 1.0 GPM FLOW. PROVIDE ELKAY MODEL LK-99 DRAIN. PROVIDE ZURN MODEL Z8802LRLK-XL-PC LEAD-FREE ANGLE STOPS. PROVIDE "BADGER" GABAGE DISPOSAL, ½ HP, 120V POWER CONNECTION. WATER AND DRAIN PIPING CONNECT TO ADJACENT DISHWASHER.
UR-1	URINAL, "AMERICAN STANDARD" 6002001 PINTBROOK, 0.125 GPF, 6063013.002 BATTERY OPERATED FLUSH VALVE, WALL MOUNT, INSTALLED AT ADA HEIGHT WHERE REQUIRED PER ARCHITECTURAL DRAWINGS. PROVIDE FLOOR MOUNT CARRIER.
WHA-1	WATER HAMMER ARRESTER, "J. R. SMITH" HYDROTROL, PROVIDE 12"X12" "J. R. SMITH" STAINLESS STEEL ACCESS DOOR.
TP-1	TRAP PRIMER: DIFFERENTIAL PRESSURE AUTOMATIC TYPE, CORROSION RESISTANT BRASS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS, PROVIDE J.R. SMITH 12"X12" ACCESS PANEL, PPP #PR-500 OR EQUAL.
WC-1	WATER CLOSET, "AMERICAN STANDARD" 2294.011EC. WALL HUNG. FLUSH VALVE: 6065.121 ELECTRONIC FLUSH VALVE 1.28GPF, LITHIUM BATTERY INCLUDED. TOP OF SEAT @ 17" HIGH (ADA COMPLIANT), OPEN FRONT, 5901.100SS SELF-SUSTAINING CHECK HINGE. PROVIDE "ZURN" OR "J.R. SMITH" WALL HUNG CARRIER.
WC-2	WATER CLOSET: SAME AS WC-1, INSTALL @ STANDARD HEIGHT (TOP OF SEAT @ 15" HIGH, NON-ADA COMPLIANT)
IMB-1	ICE MAKER BOX, "GUY GRAY", 16GA STEEL, WALL FLANGE, COLD WATER INLET OPENING. PROVIDE "BRASS CRAFT" ANGLE STOP ORO7C.

PLUMBING EQUIPMENT SCHEDULE

WH 1 — ELECTRIC WATER HEATER:
A.O. SMITH DSE-30A, 30 GALLON STORAGE, 6000 WATT HEATING INPUT, 28 GPH RECOVERY AT 90°F, 208 VOLT/1 PHASE ELECTRICAL SERVICE, FACTORY INSTALLED T&P RELIEF VALVE. 475 LBS OPER WT.

WH 2 — ELECTRIC WATER HEATER:
A.O. SMITH DSE-30A, 30 GALLON STORAGE, 6000 WATT HEATING INPUT, 28 GPH RECOVERY AT 90°F, 208 VOLT/1 PHASE ELECTRICAL SERVICE, FACTORY INSTALLED T&P RELIEF VALVE. 475 LBS OPER WT.

ET 1, ET 2 — EXPANSION TANK:
"AMTROL" MODEL ST-5, DIAPHRAGM, PRE-PRESSURISED THERMAL EXPANSION TANK. EXPANSION TANK SHALL BE DESIGNED FOR MAXIMUM WORKING TEMPERATURE OF 200°F, MAXIMUM WORKING PRESSURE OF 150 PSI, AND MINIMUM TOTAL VOLUME OF 2.0 GALLONS.

CP 1 — CIRCULATING PUMP:
B&G MODEL, NBF 9U/LW. 1 GPM @ 8 FT HEAD, 41 WATTS, 120V-1PH. PROVIDE AQUASTAT AND TIME CLOCK.

PLUMBING ABBREVIATIONS

ABV	ABOVE
ABC, OH	ABOVE CEILING, OVERHEAD
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIP	ABANDON IN PLACE
BR	BRANCH
CL	CENTERLINE
CO	CLEANOUT
CW	COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA, ø	DIAMETER
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FSR	FIRE SPRINKLER RISER
GCO	GRADE CLEANOUT
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
(N) (E)	NEW, EXISTING
NIC	NOT IN CONTRACT
POC	POINT OF CONNECTION
P, TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
RI	ROUGH-IN
RO	RUN-OUT
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TP	TRAP PRIMER
UG, UF	UNDERGROUND, UNDERFLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
WT	WATERTIGHT
WCO	WALL CLEANOUT

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24,

2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2022 EDITION OF THE CALIFORNIA FIRE CODE.
2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2022 EDITION OF THE CALIFORNIA PLUMBING CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE NAME	SYMBOL	VENT	WASTE		COLD WATER		HOT WATER	
			BR	RI	BR	RI	BR	RI
LAVATORY	L	1½"	2"	1½"	¾"	½"	¾"	½"
WATER CLOSET FLUSH VALVE (FV)	WC	2"	4"	4"	1¼	1"	–	–
URINAL FLUSH VALVE (FV)	UR	2"	4"	4"	1¼	1"	–	–
MOP SINK	MS	2"	3"	3"	¾"	¾"	¾"	¾"
SINK	S	1½"	2"	1½"	¾"	½"	¾"	½"
FLOOR DRAIN	FD	2"	2"	2"	–	–	–	–
ICE MAKER BOX	IMB	–	–	–	½"	½"	–	–

PLUMBING LEGEND

CW	COLD WATER LINE
CD	CONDENSATE DRAIN
F	FIRE SERVICE LINE
G	GAS
HW	HOT WATER LINE
HWR	HOT WATER RETURN
LPG	LIQUID PETROLEUM GAS
OFL	OVERFLOW
X X X X X	PIPING OR EQUIPMENT TO BE REMOVED
RWL	RAINWATER LEADER
	RISE OR DROP IN DIRECTION OF FLOW
	SANITARY SOIL OR WASTE LINE
SCD	SECONDARY CONDENSATE DRAIN LINE
TP	TRAP PRIMER LINE
	VENT
	CLEANOUT & WALL CLEANOUT
	FIRE DEPARTMENT CONNECTION
	FLOOR/ GRADE CLEAN OUT
	FLOOR DRAIN
	HOSE BIBB/ WALL HYDRANT
	TRAP
	TRAP PRIMER
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	FLEXIBLE CONNECTION
	GATE VALVE
	SHUT OFF COCK
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
	REDUCER
	PRESSURE & TEMPERATURE RELIEF VALVE
	SHUT OFF VALVE
	STRAINER
	STRAINER & DRAIN VALVE WITH HOSE FITTING
	SOLENOID VALVE
	THERMOMETER
	UNION
MA	MEDICAL AIR
PA	PLANT COMPRESSED AIR
N	NITROGEN LINE
ND	NITROUS OXIDE
OX	OXYGEN LINE
MV	VACUUM LINE

COMPLIANCE NOTES

MECHANICAL AND PLUMBING EQUIPMENT SHALL CONFORM TO THE FOLLOWING AS STATED IN THE ENERGY EFFICIENCY STANDARDS, 2022.

1. BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS:
   - 110.1 APPLIANCES REGULATED BY THE APPLIANCE EFFICIENCY STANDARDS:
   - 110.2 HVAC EQUIPMENT EFFICIENCY AND PACKAGED CONTROLS:
   - 110.3 SERVICE WATER HEATING EFFICIENCY AND CONTROLS:
   - 110.4 POOL AND SPA HEATING EFFICIENCY AND CONTROLS:
   - 110.5 RESTRICTIONS ON PILOT LIGHTS:
2. BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTIONS.
   - 120.1 REQUIREMENTS FOR VENTILATION:
   - 120.2 REQUIRED CONTROLS FOR HVAC SYSTEMS:
     - 102.2 (H) DEMAND SHED CONTROLS.
     - 120.2 (J) ECONOMIZER FAULT DETECTION & DIAGNOSTIC.
   - 120.3 REQUIREMENTS FOR PIPE INSULATION:
   - 120.4 REQUIREMENTS FOR DUCT INSULATION:
   - 120.5 REQUIREMENTS FOR MECHANICAL SYSTEMS
   - 120.8 BUILDING COMMISSIONING
   - 120.9 REQUIREMENTS FOR COMMERCIAL BOILERS

PIPING MATERIAL SCHEDULE

SYSTEM	LOCATION	MATERIAL		MATERIAL	
		MATERIAL	TEST METHOD	MATERIAL	TEST METHOD
WASTE & VENT	ABOVE OR BELOW SLAB	STANDARD WEIGHT COATED CAST IRON PIPE	CISPI 301, ASTM A888	PLAIN END NO-HUB WITH NEOPRENE GASKET & STAINLESS STEEL COUPLING	ASTM A74, ASTM C564
WASTE & VENT	BELOW SLAB	PVC-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D1784 ASTM D1785	SOLVENT WELD	ASTM D2665 ASTM D2564
DOMESTIC CW & HW	ABOVE SLAB	TYPE "L" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 95/5 TIN-SILVER SOLDERED JOINTS	ANSI B16.22
CONDENSATE DRAIN	ABOVE SLAB	TYPE "M" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 95/5 TIN-SILVER SOLDERED JOINTS	ANSI B16.22
NATURAL GAS	ABOVE SLAB	SCHEDULE 40 BLACK STEEL PIPE	ASTM A120	150 PSI BLACK MALLEABLE IRON SCREWED FITTINGS	ANSI B16.3 ANSI B16.8

NOTES:
1. ALL CAST IRON PIPE SHALL BE AMERICAN MADE AND TESTED, NO IMPORTED PIPE IS ACCEPTABLE. TYLER PIPE, AB&I FOUNDRY OR CHARLOTTE PIPE.

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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CONSTRUCTION DOCUMENTS

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Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:43pm	
Project Drafter:		Login: GYang	

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Project
TENANT IMPROVEMENTS

Sheet Title
PLUMBING LEGEND, NOTES AND SCHEDULES

Client Project Number: N/A

Scale: As indicated
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

Sheet
P0.01
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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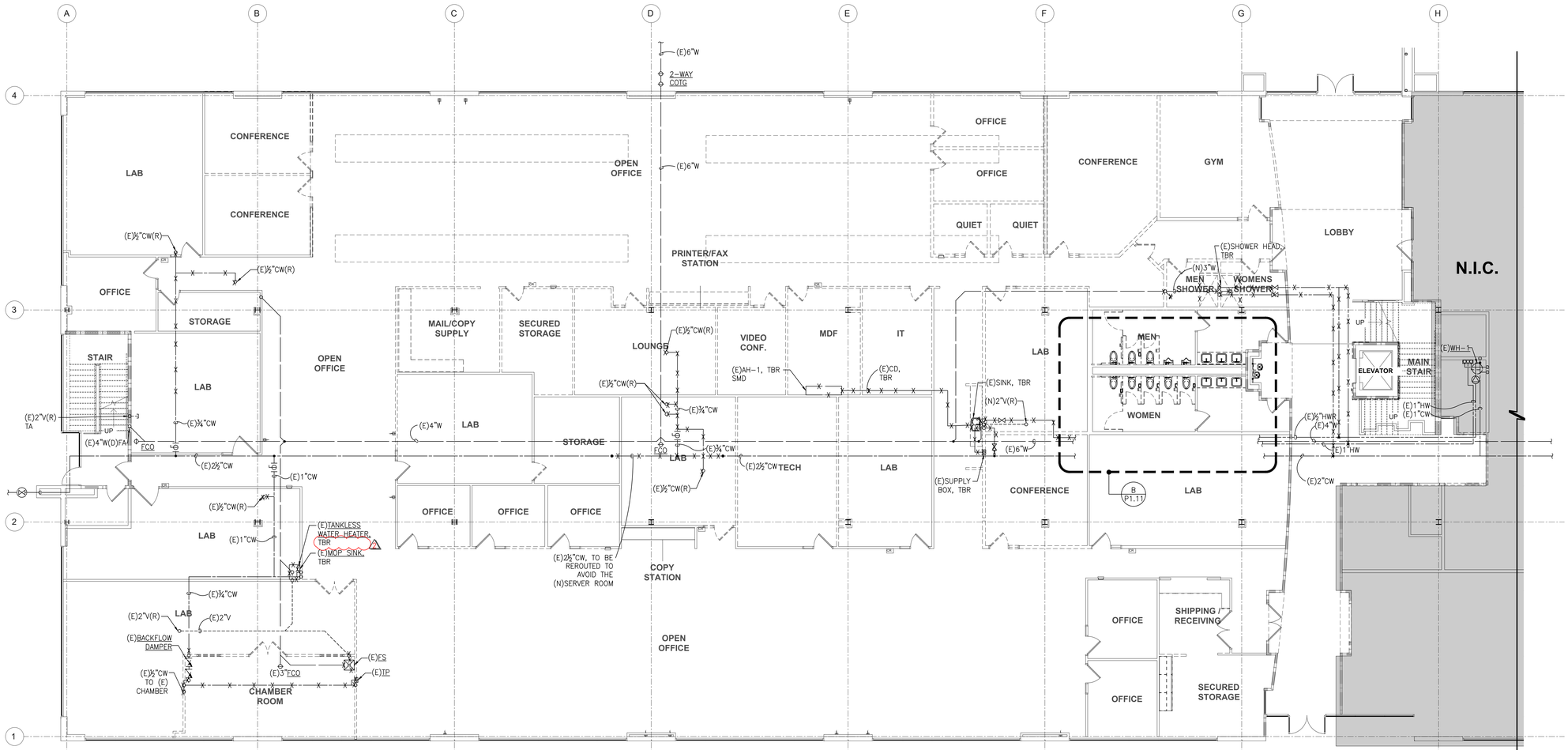
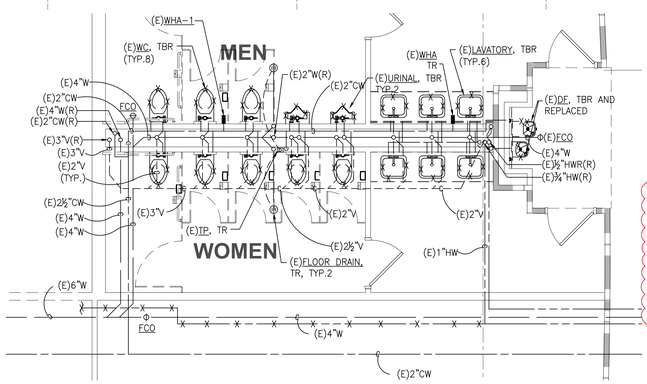


A PLUMBING FIRST FLOOR PARTIAL DEMOLITION FLOOR PLAN – WEST

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

NOTES:

1. FOR ALL DEMOED FIXTURES ON THIS PLAN, DISCONNECT PIPING CONNECTION, CUT WASTE AND VENT PIPING BEHIND ARCHITECTURAL FINISHES AND CAP. CUTBACK WATER PIPING TO MAIN BRANCH AND CAP TO AVOID DEAD LEGS.
2. MAIN RESTROOMS (SEE B/P1.11) ARE BEING FIXTURES TEMPORARILY REMOVED FOR NEW ARCHITECTURAL FINISHES. ⚠



NOTES:

1. FOR ALL DEMOED FIXTURES ON THIS PLAN IN RESTROOMS, REMOVE FIXTURE AND SAVE FOR REINSTALLATION AT SAME LOCATION. REUSE (E)FINISH VALVES AND FAUCETS. FIXTURE ARE BEING REMOVED FOR (N)TILE WORK. REPLACE ALL DAMAGED COMPONENTS THAT OCCUR DURING REMOVAL. REPLACE ALL RISER AND WALL STOPS (VALVES) FOR LAVATORIES. ⚠

B PLUMBING FIRST FLOOR PARTIAL DEMOLITION FLOOR PLAN – RESTROOMS

SCALE: 1/4" = 1'-0"

PCOE
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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 7:43pm
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REGISTERED PROFESSIONAL ENGINEER — JEFFREY W. THOMPSON — No. M-028560 Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

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Sheet Title

PLUMBING FIRST FLOOR PARTIAL DEMOLITION PLAN - WEST

Client Project Number: N/A

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Sheet **P1.11**

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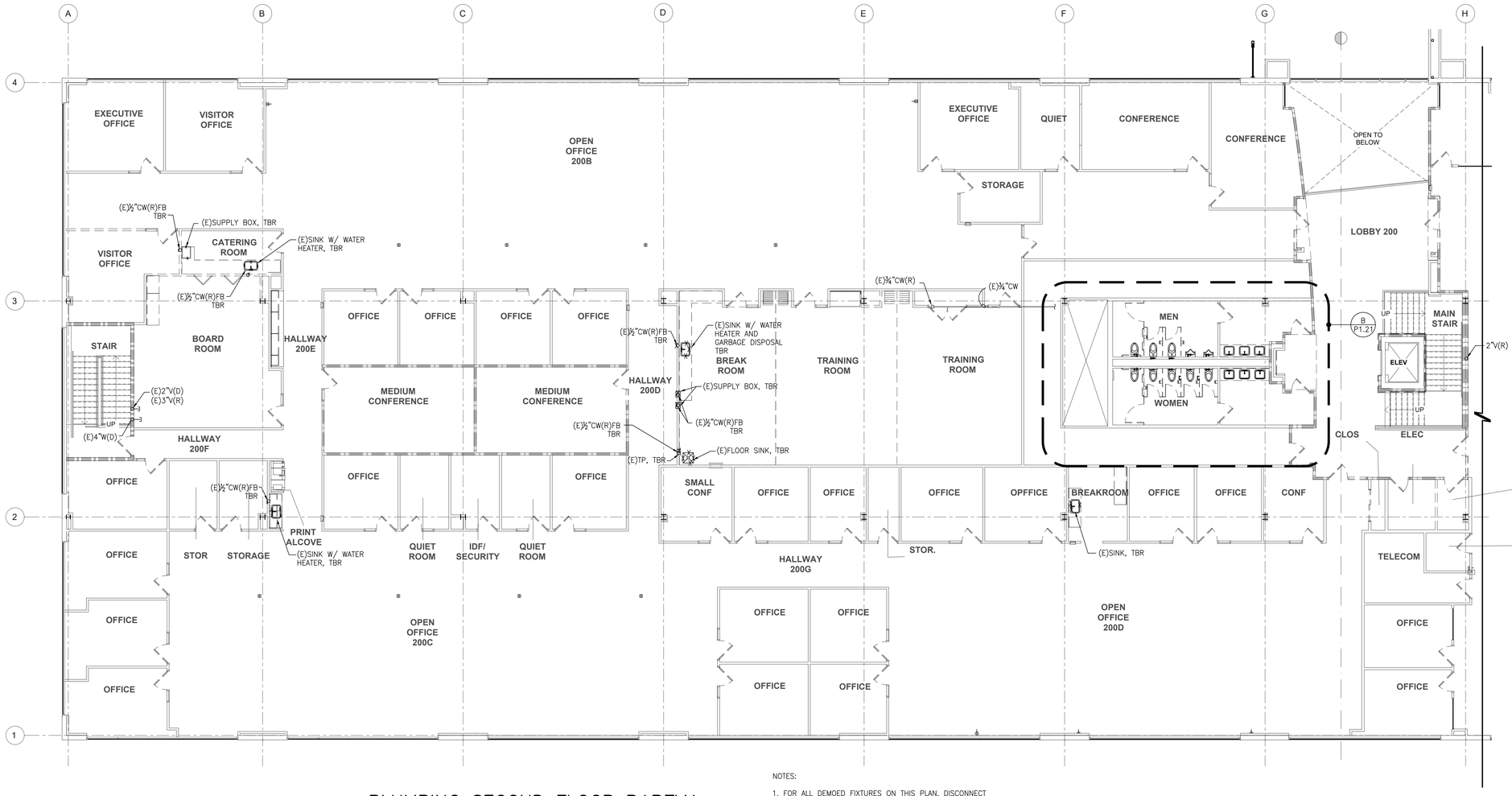
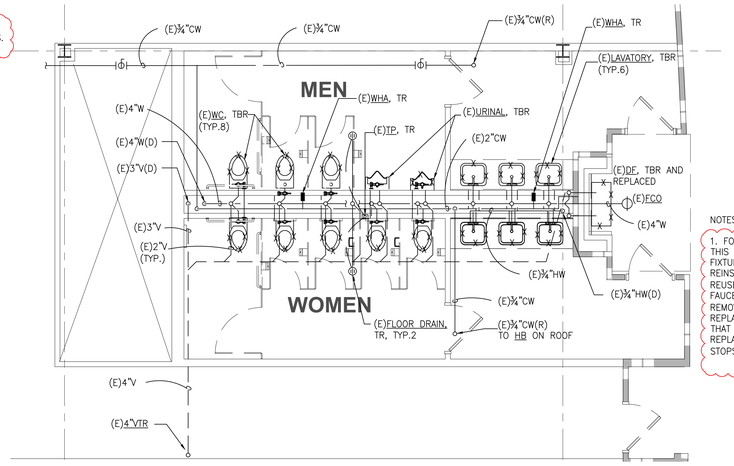


A PLUMBING SECOND FLOOR PARTIAL DEMOLITION FLOOR PLAN – WEST

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

NOTES:

1. FOR ALL DEMOED FIXTURES ON THIS PLAN, DISCONNECT PIPING CONNECTION, CUT WASTE AND VENT PIPING BEHIND ARCHITECTURAL FINISHES AND CAP, CUTBACK WATER PIPING TO MAIN BRANCH AND CAP TO AVOID DEAD LEGS.
2. MAIN RESTROOMS (SEE B/P1.11) ARE BEING FIXTURES TEMPORARILY REMOVED FOR NEW ARCHITECTURAL FINISHES. ⚠1



NOTES:

1. FOR ALL DEMOED FIXTURES ON THIS PLAN IN RESTROOMS, REMOVE FIXTURE AND SAVE FOR REINSTALLATION AT SAME LOCATION. REUSE (E)FINISH VALVES AND FAUCETS. FIXTURE ARE BEING REMOVED FOR (N)TILE WORK. REPLACE ALL DAMAGED COMPONENTS THAT OCCUR DURING REMOVAL. REPLACE ALL RISER AND WALL STOPS (VALVES) FOR LAVATORIES. ⚠1

B PLUMBING SECOND FLOOR PARTIAL DEMOLITION FLOOR PLAN – RESTROOMS

SCALE: 1/4" = 1'-0"

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 7:43pm
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PLUMBING SECOND FLOOR PARTIAL DEMOLITION PLAN - WEST

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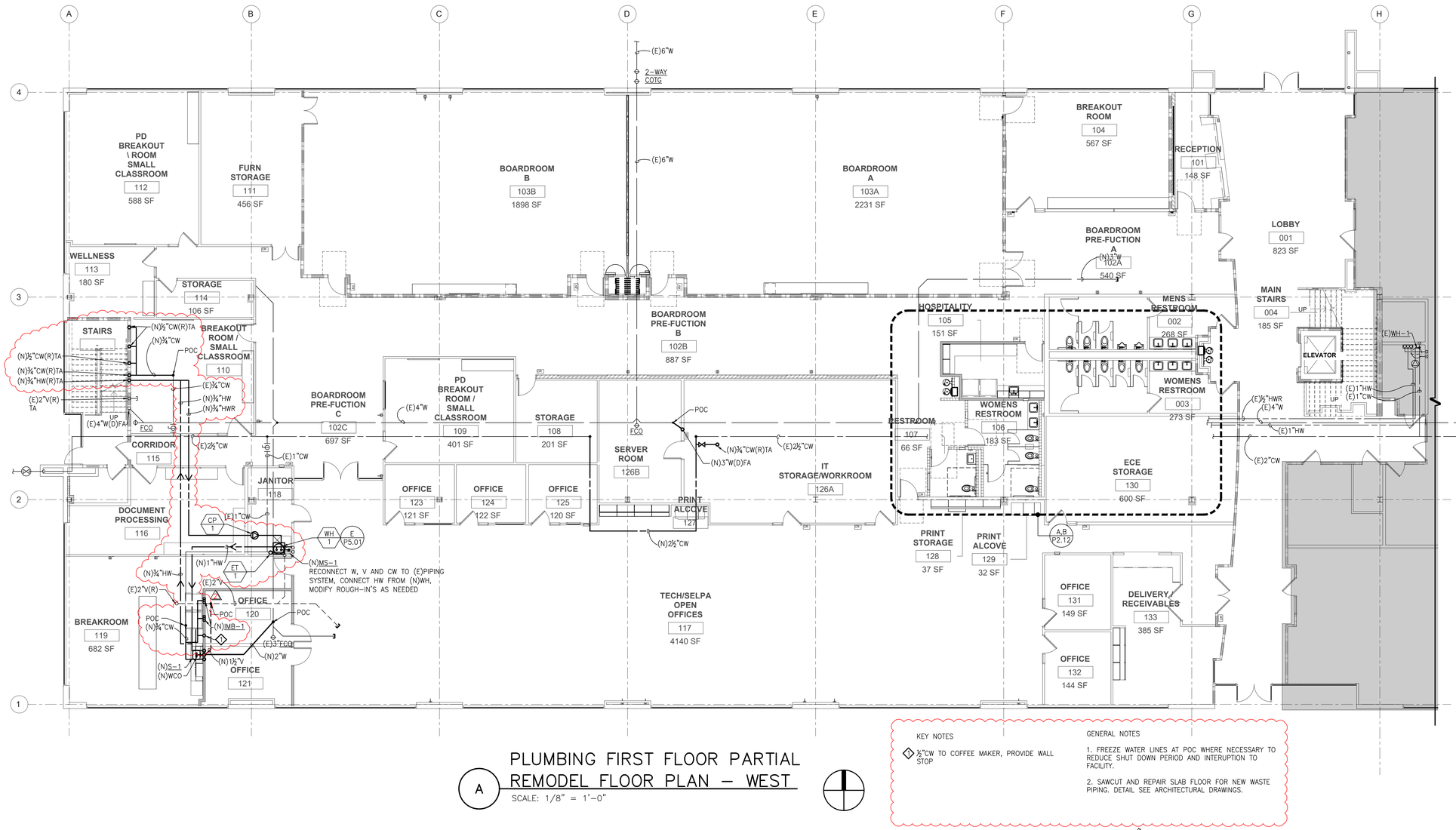

PLUMBING FIRST FLOOR PARTIAL REMODEL FLOOR PLAN – WEST

A SCALE: 1/8" = 1'-0"

KEY NOTES

1. ½"CW TO COFFEE MAKER, PROVIDE WALL STOP

GENERAL NOTES

1. FREEZE WATER LINES AT POC WHERE NECESSARY TO REDUCE SHUT DOWN PERIOD AND INTERUPTION TO FACILITY.
2. SAWCUT AND REPAIR SLAB FLOOR FOR NEW WASTE PIPING, DETAIL SEE ARCHITECTURAL DRAWINGS.

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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TENANT IMPROVEMENTS

Sheet Title

PLUMBING FIRST FLOOR PARTIAL REMODEL PLAN - WEST

Client Project Number: N/A

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Sheet **P2.11**

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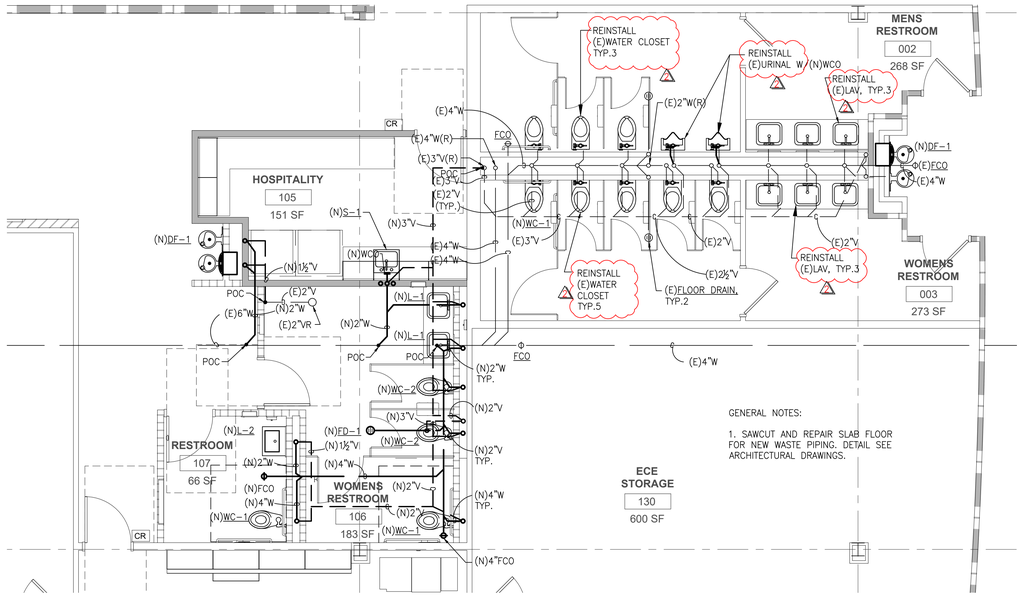
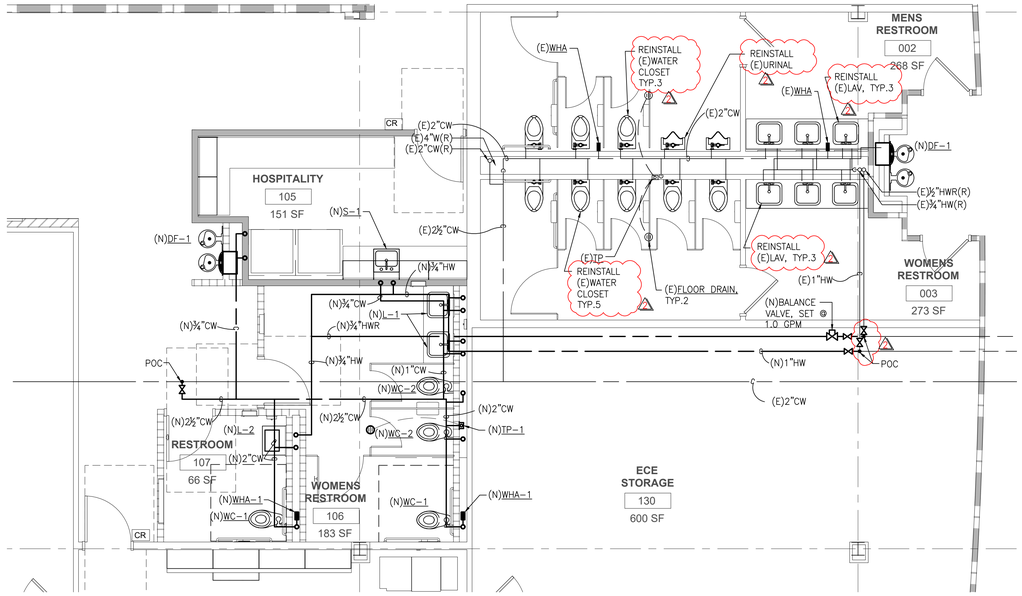


A

PLUMBING FIRST FLOOR PARTIAL REMODEL FLOOR PLAN – RESTROOMS – WASTE AND VENT

SCALE: 1/4" = 1'-0"



B

PLUMBING FIRST FLOOR PARTIAL REMODEL FLOOR PLAN – RESTROOMS – DOMESTIC WATER

SCALE: 1/4" = 1'-0"

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Revisions

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1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project

TENANT IMPROVEMENTS

Sheet Title

PLUMBING FIRST FLOOR PARTIALENLARGED REMODEL PLANS - RESTROOMS

Scale:	As indicated
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Sheet **P2.12**

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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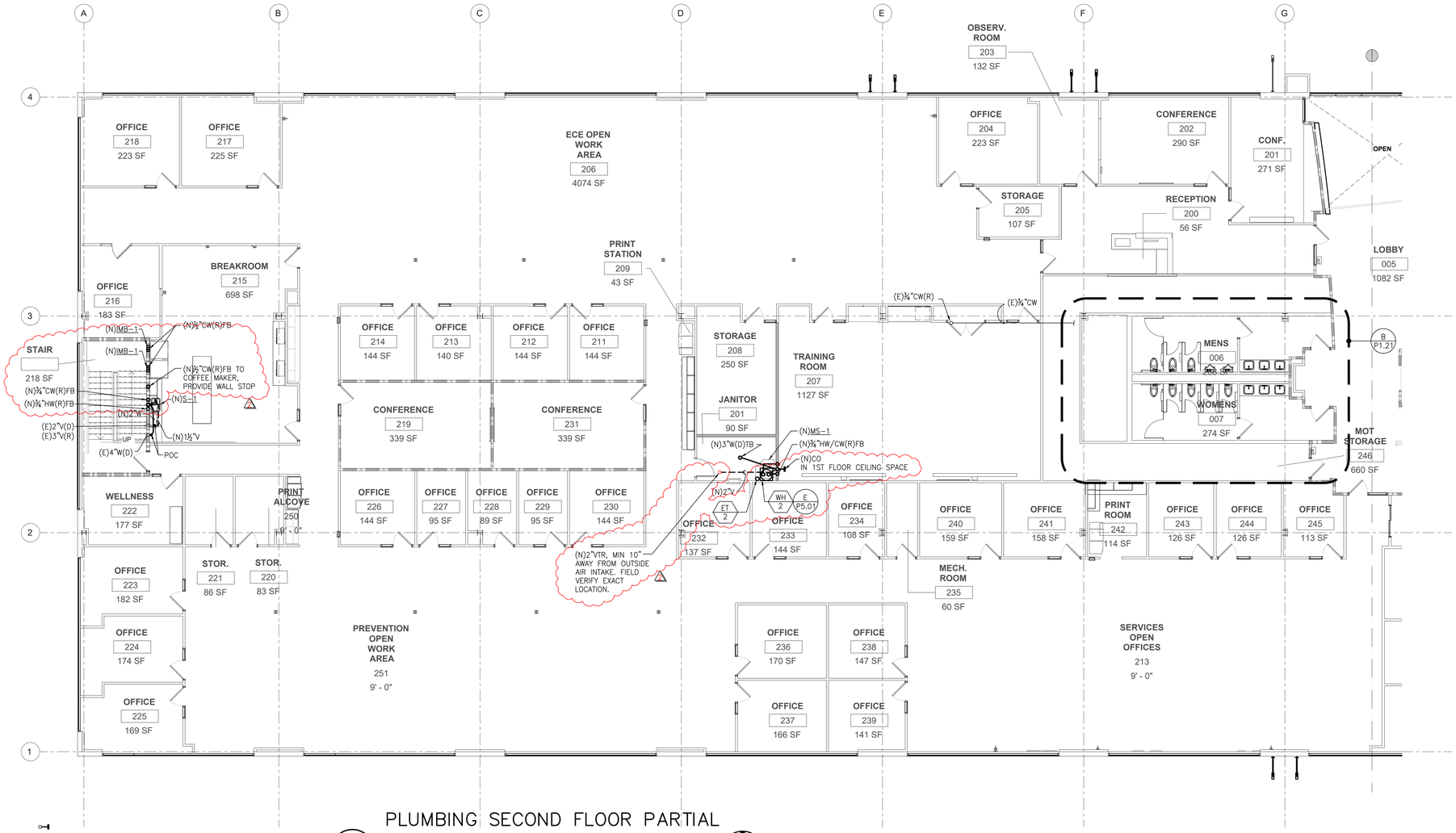
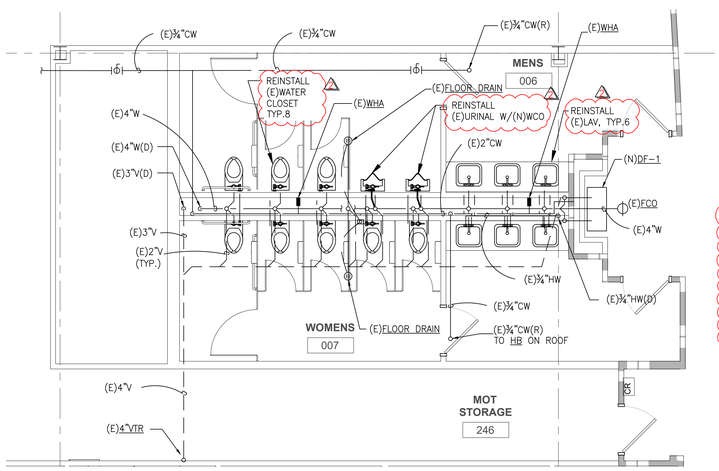


A PLUMBING SECOND FLOOR PARTIAL REMODEL FLOOR PLAN – WEST

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



B PLUMBING SECOND FLOOR PARTIAL REMODEL FLOOR PLAN – RESTROOMS

SCALE: 1/4" = 1'-0"

NOTES:

1. RECONNECT (E)PIPING TO (N) AND REINSTALLED (E)FIXTURES. MODIFY ROUGH-INS AS NEEDED. PROVIDE (N)RISERS, (N)P-TRAP, AND (N)TAILPIECE FOR LAVS, PROVIDE (N)WALL STOPS FOR URINALS.
2. REUSE (E)FLASH VALVES.

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC
2431 Capitol Avenue, Sacramento, CA 95816
(916) 325-1065 FAX: (916) 325-1075 Email: office@turleymech.com

Project Engineer:	JT	Job Number:	23131
Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:43pm	
Project Drafter:	I	Login: GYang	

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REGISTERED PROFESSIONAL ENGINEER — JOSEPH W. TURLEY — No. M-028547 Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

PLUMBING SECOND FLOOR PARTIAL REMODEL PLAN - WEST

Client Project Number: N/A

Scale:	As indicated
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **P2.21**

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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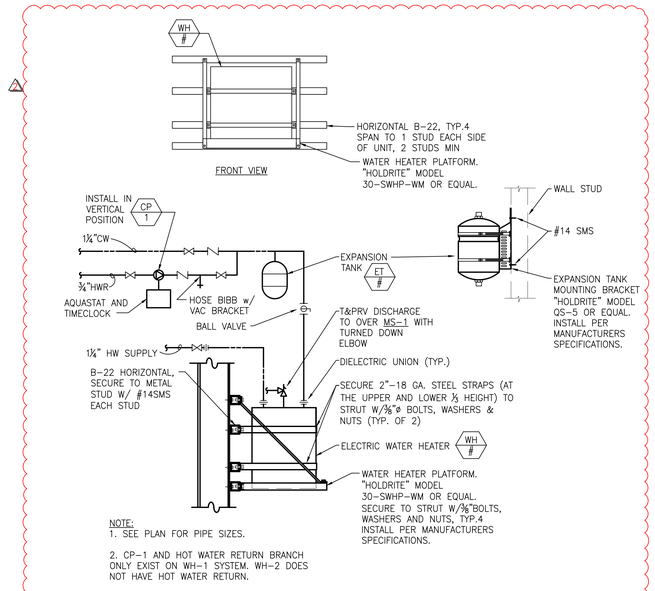


E ELECTRIC WATER HEATER DETAIL

NO SCALE

PIPE SUPPORT SCHEDULE

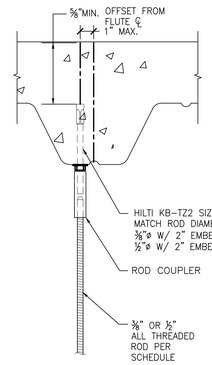
HORIZONTAL STEEL PIPE

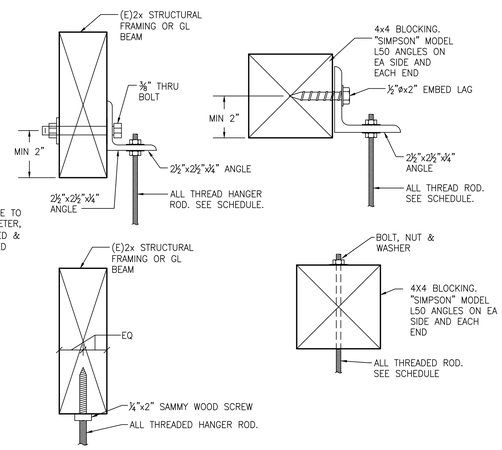
NOMINAL PIPE SIZE	ROD DIAMETER	MAX. SPACING
½ – 1¼	⅜	7'0"
1½	⅜	9'0"
2	⅜	10'0"
2½	½	11'0"
3	½	12'0"
4	⅝	12'0"

HORIZONTAL COPPER PIPE

NOMINAL PIPE SIZE	ROD DIAMETER	MAXIMUM SPACING
½ –¾	⅜	5'0"
1	⅜	6'0"
1¼	⅜	6'0"
1½	⅜	6'0"
2	⅜	8'0"
2½	½	9'0"
3	½	10'0"

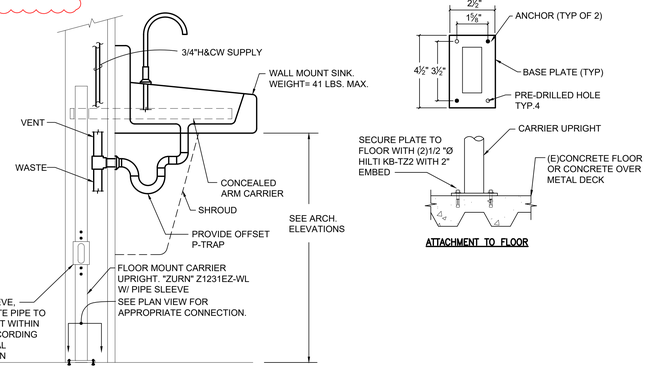
NOTES:
1. PROVIDE MEANS OF PREVENTING DISSIMILAR METAL CONTACT SUCH AS FELT OR NON ADHESIVE ISOLATION TAPE. GALVANIZED FELT ISOLATORS SIZED FOR COPPER TUBING MAY ALSO BE USED, TOLCO FIG.83.
2. SUPPORT HORIZONTAL CAST IRON ADJACENT TO EACH HUB, WITH 5 FEET MAXIMUM SPACING BETWEEN HANGERS.
3. INSTALL HANGERS TO PROVIDE A MINIMUM OF ½ INCH SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
4. HANGERS SHALL BE INSTALLED WITHIN 18" OF EACH HORIZONTAL ELBOW.





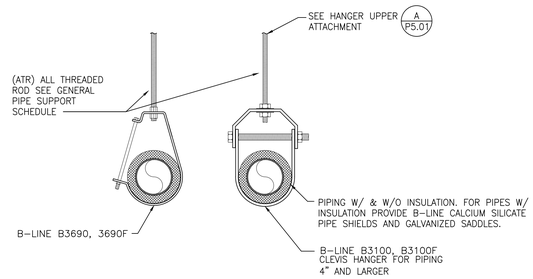
A HANGER ROD UPPER ATTACHMENT DETAIL

NO SCALE



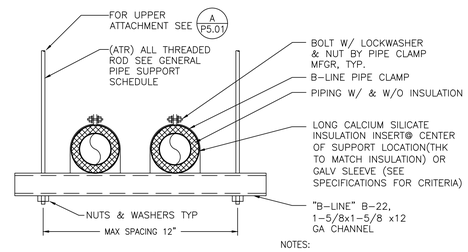
D WALL HUNG SINK/LAV SUPPORT

NO SCALE



B PIPE HANGER DETAIL

NO SCALE



TRAPEZE PIPE SUPPORT

NOTES:

1. MAX WEIGHT SUPPORTED BY A SINGLE TRAPEZE SHALL NOT EXCEED 100 LBS.

2. MAX SPACING BETWEEN TRAPEZE SUPPORT SHALL NOT EXCEED MAX SPACING REQUIREMENT FOR EACH PIPE (SEE GENERAL PIPE SUPPORT SCHEDULE) AND SHALL NOT EXCEED 10 FT.

C GRAVITY TRAPEZE PIPE SUPPORT DETAIL

NO SCALE

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Engineer:	JT	Job Number:	23131
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Project Drafter:	-	Login: GYang	

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REGISTERED PROFESSIONAL ENGINEER JOSEPH W. THOMPSON No. M-028557 Exp. 6/30/2025 MECHANICAL STATE OF CALIFORNIA

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530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

PLUMBING DETAILS

Client Project Number: N/A

Scale: As indicated
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

Sheet

P5.01

Sheet of

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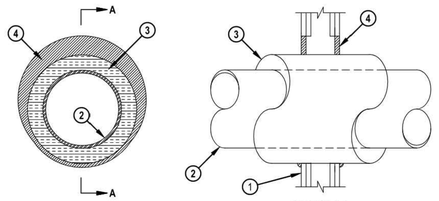
WL 5029

System No. W-L-5029

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



SECTION A-A

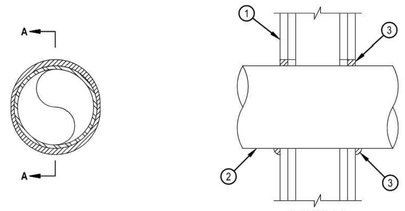
1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

WL 1290

System No. W-L-1290

F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less than 1 CFM/Sq Ft
L Rating (Without Movement) at 400°F — Less than 1 CFM/Sq Ft
M Rating (Movement) — See Table 1

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

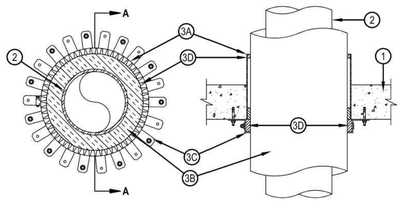
1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the Fire Resistance Directory. Max diam of opening is 5 in. (127 mm). For M Rating, max diam of opening is 4-3/8 in. (111 mm).
   The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The M Rating is applicable only to 1 hr rated walls.
2. Through Penetrant — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe or tube and periphery of the opening shall be min 0 in (point contact) to max 1/2 in. (13 mm). As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. As an option, for 1 hr F Rating, the annular space between pipe and opening can be max 1 in. (25 mm) for Item 2A penetrant in 2 in. (51 mm) diam (or smaller). The following types and sizes of metallic pipes, conduit or tube may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.
   D. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
   E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

FA 5009

System No. F-A-5009

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

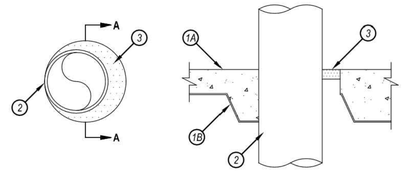
1. Floor Assembly — Min 4-1/2 In. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Max diam of opening is 15 In. (381 mm).
2. Through-Penetrants — One metallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes may be used:
   A. Steel Pipe — Nom 10 In. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

FA 1014

System No. F-A-1014

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Floor Assembly — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified In the IndMdual D900 Series designs In the UL Fire Resistance Directory and as summarized below:
   A. Concrete — Min 2-1/2 In. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete.
   B. Steel Floor and Form Units* — Composite or non-composite max 3 In. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design. Max diam of opening is 14-5/8 In. (371 mm).
2. Through Penetrants — One metallic tubing, pipe or conduit to be installed within the firestop system. Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The annular space between pipe, tubing or conduit and periphery of opening shall be min of 0 In. (point contact) to max 1-7/8 In. (48 mm). The following types and sizes of metallic pipes, tubing or conduit may be used:
   A. Steel Pipe — Nom 12 In. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit — Nom 4 In. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 In. (152 mm) diam (or smaller) steel conduit.
   C. Copper Tube — Nom 6 In. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   D. Copper Pipe — Nom 6 In. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Materials*-Sealant — Min 1 In. (25 mm) thickness of sealant applied within annular space, flush with top surface of floor. At the point contact location between pipe and concrete, a min 1/2 In. (13 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

WL 5029

System No. W-L-5029

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

WL 1290

System No. W-L-1290

3. Fill, Void or Cavity Material*-Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact and continuous point contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Table 1

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating
Y	2A	2 in.	Max 1 in.	5%	5/8 in.	1 hr.	N/A
Z	2A	2 in.	1 in.	0.25 in.	5/8 in.	1 hr.	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

FA 5009

System No. F-A-5009

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

3. Firestop System — The firestop system shall consist of the following:
   A. Metallic Sleeve — Cylindrical sleeve fabricated from min 0.028 In. (0.7 mm) thick (No. 24 gauge) galv sheet steel and having a min 1 In. (25 mm) lap along the longitudinal seam. Length of steel sleeve to be 1 In. (25 mm) to 4 In. (102 mm) more than the overall thickness of the wall or floor such that, when installed in opening, the bottom end of the sleeves is flush with bottom surface of floor. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the opening in the concrete floor.
   B. Pipe Covering* — Max 2 In. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space shall be min 1/4 In. (6 mm) to max 1/2 In. (13 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category In the Building Materials Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   C. Steel Collar — Collar fabricated from precut 0.017 In. (0.43 mm) thick (28 MSG) galv sheet steel available from the sealant manufacturer. Collar shall be nom 2 In. deep with min 1-1/4 In. (32 mm) wide by 2 In. (51 mm) long anchor tabs for securement to floor surface. Retainer tabs, 1/4 In. (6 mm) wide by 3/4 In. (19 mm) long and located opposite the anchor tabs are folded 90 degrees toward pipe surface to maintain the annular space around the pipe and to retain the fill material. Collar secured to surface of floor with 1/4 In. (6 mm) diam by min 1-1/2 In. (38 mm) long steel expansion bolts, or equivalent. In conjunction with steel nuts and min 3/4 In. (19 mm) diam steel washers. A nom 1/2 In. (13 mm) wide stainless steel hose clamp secured to collar at mid-depth.
   D. Fill, void or Cavity Material* — Sealant — Min 1-1/2 In. (38 mm) thickness of fill material applied within the annulus flush with the bottom of the floor. Min 1/2 In. (13 mm) thickness of fill material applied within the annulus flush with the top of the metallic sleeve. Additional fill material applied to completely fill the collar.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS611A, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

GENERAL NOTES

PIPE THRU RATED WALL / FLOOR DETAILS ON THIS PAGE ARE GENERAL DETAILS THROUGH OUT THE PROJECT

PCOE
GOLD IN EDUCATION

Revisions

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1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

PLAN CHECK SET

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REGISTERED PROFESSIONAL ENGINEER — No. M-028507 — Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

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Project

TENANT IMPROVEMENTS

Sheet Title

PLUMBING DETAILS

Client Project Number: N/A

Scale:	As indicated
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet

P5.02

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" (0, 5', 50') | 1/8" = 1'-0" (0, 5', 25') | 1/4" = 1'-0" (0, 1', 12') | 1/2" = 1'-0" (0, 1', 6') | 3/4" = 1'-0" (0, 4') | 1" = 1'-0" (0, 1', 3') | 1 1/2" = 1'-0" (0, 2') | 3" = 1'-0" (0, 1')

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

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Aug 30, 2023 – 1:59pm, / kerlo

ABBREVIATIONS

A	AMPERES	LM	LUMENS
AC	ALTERNATING CURRENT	LT.	LIGHT
AF	AUTO FAUCET / AUTO FLUSH	LV	LOW VOLTAGE
A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
A.I.C.	AMPERE INTERRUPTING CAPACITY	MDF	MAIN DISTRIBUTION FRAME
AMP	AMPERE	MFR.	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MIN.	MINIMUM
BKR	BREAKER	MTD.	MOUNTED
C.	CONDUIT	N	NEUTRAL
C.B.	CIRCUIT BREAKER	(N)	NEW
CKT	CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C.O.	CONDUIT ONLY, WITH PULL WIRE	NL	NIGHT LIGHT
C.T.	CURRENT TRANSFORMER	NM	NON-METALLIC CABLE
DC	DIRECT CURRENT	PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
(E)	EXISTING	PH	PHASE
EL	EVENING LIGHT	(R)	REMOVE
EM	EMERGENCY	(RE)	RELOCATE EXISTING
(ER)	EXISTING RELOCATED	RCPT.	RECEPTACLE
EMT	ELECTRICAL METALLIC CONDUIT	S.M.S	SHEET METAL SCREW
(F)	FUTURE	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SYS	SYSTEM
FAPS	FIRE ALARM POWER SUPPLY	TV	TELEVISION
FATC	FIRE ALARM TERMINAL CABINET	TYP.	TYPICAL
GA.	GAUGE	UG	UNDERGROUND
GND	GROUND	UL	UNDERWRITERS LABORATORY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
HP	HORSEPOWER	V	VOLT
A.	HERTZ (CYCLES/SEC)	VA	VOLT-AMPERES
Isc	SHORT CIRCUIT AMPERES	W	WIRE, WATT
ISO	ISOLATED	WP	WEATHER PROTECTED
K	THOUSAND	XFMR	TRANSFORMER
KVA	KILO VOLT AMPERE		
KW	KILO WATT		

ELECTRICAL SYMBOL LIST

- a_2 — LUMINAIRE - CEILING RECESSED MOUNTED (LETTER "a" DENOTES SWITCH FUNCTION, NUMBER "2" DENOTES CIRCUIT NUMBER - TYPICAL FOR ALL LUMINAIRES UNLESS NOTED OTHERWISE).
- LUMINAIRE - WALL MOUNTED
- WALL MOUNTED EXIT LUMINAIRE. ARROW SIGNIFIES DIRECTION, TYPICAL.
- WALL MOUNTED LOW LEVEL EXIT LUMINAIRE MOUNTED ADJACENT TO DOOR WITH CLOSEST EDGE OF SIGN MOUNTED WITHIN 4 INCHES OF DOOR FRAME. BOTTOM OF SIGN SHALL BE MOUNTED NOT LESS THAN 6 INCHES OR MORE THAN 8 INCHES ABOVE FINISHED FLOOR.
- CEILING OR PENDANT MOUNTED EXIT LUMINAIRE. ARROW SIGNIFIES DIRECTION, TYPICAL.
- CEILING OR PENDANT MOUNTED EXIT LUMINAIRE.
- ENCLOSED LUMINAIRE - SURFACE MOUNTED
- SUSPENDED LINEAR FIXTURE
- ENCLOSED LUMINAIRE - CEILING LAY-IN
- EMERGENCY ENCLOSED LUMINAIRE
- LUMINAIRE - CEILING SURFACE OR PENDANT MOUNTED
- $\$_K^{ab}$ — SWITCH, +45" A.F.F. - "a,b" LETTER DENOTES MULTI-SWITCH FUNCTION, TYPICAL FOR ALL SWITCHES, MOTION SENSORS AND DAYLIGHT SENSORS UNLESS NOTED OTHERWISE. "K" DENOTES SINGLE POLE TOGGLE SWITCH.
- DIMMER SWITCH - SIZE AS NOTED ON PLAN
- OCCUPANCY SENSOR SWITCH WITH MANUAL OVERRIDE - WALL MOUNTED AT +45" A.F.F. UNLESS NOTED OTHERWISE
- OCCUPANCY AREA SENSOR SWITCH - CEILING MOUNTED OS = OCCUPANCY SENSOR; PC = PHOTOCELL; DL = DAYLIGHT
- JUNCTION BOX - SIZE AS REQUIRED BY CODE
- +XX" ABC-# — DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (OUTLETS ABOVE COUNTER MOUNTED HORIZONTALLY AT +44" A.F.F. UNO, "+XX" INDICATES MOUNTING HEIGHT OTHER THAN 18", "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER - TYPICAL FOR ALL OUTLETS UNLESS NOTED OTHERWISE).
- GFCI DUPLEX CONVENIENCE OUTLET - NEMA 5-20R
- QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R
- GFCI QUAD CONVENIENCE OUTLET - NEMA 5-20R
- SPECIAL RECEPTACLE AS SHOWN ON PLANS
- $_C$ — QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R: (1) UNCONTROLLED DUPLEX RECEPTACLE, AND (1) CONTROLLED DUPLEX RECEPTACLE WITH A PERMANENT MARKING TO DIFFERENTIATE FROM THE UNCONTROLLED RECEPTACLES
- P — DIVIDED METAL POWER POLE, FLOOR TO CEILING WITH ONE COMPARTMENT FOR POWER CONDUCTORS AND DUPLEX RECEPTACLE, THE OTHER COMPARTMENT FOR VOICE DATA CABLING, COMPLETE WITH ALL MOUNTING HARDWARE.
- IN-FLOOR MULTI-SERVICE BOX WITH FLUSH ACCESSIBLE LID, 2 DUPLEX RECEPTACLES (POWER), DATA OUTLETS. REFER TO PLAN FOR SPECIFIC REQUIREMENTS.
- FLOOR MOUNTED DUPLEX CONVENIENCE OUTLET - NEMA 5-20R
- IN WALL DEVICE BOX WITH DESIGNATED DATA AND POWER OUTLETS.
- 4-11/16" SQUARE BOX FOR DATA OUTLET - FLUSH IN WALL +18" A.F.F. PROVIDE 1" CONDUIT STUB INTO ACCESSIBLE CEILING AREA.
- (4) — DATA OUTLET - FLUSH IN WALL +18" A.F.F. WHERE CONDUIT IS USED, 1" CONDUIT WITH A 4-11/16" SQUARE BOX 2-1/8" DEEP SHALL BE PLACED TO EACH COMMUNICATIONS OUTLET LOCATION. PROVIDE 1" CONDUIT STUB INTO ACCESSIBLE CEILING AREA. NUMBER IN PARENTHESIS INDICATE NUMBER OF DATA JACKS.
- CR — 4-SQUARE OUTLET BOX MOUNTED AT 45" A.F.F. UNLESS NOTED. PROVIDE 1/2" CONDUIT STUB. SEE NOTE 6.
- K — 4-SQUARE OUTLET BOX +45" AFF UNLESS NOTED. PROVIDE 3/4" CONDUIT STUB. SEE NOTE 6.
- SECURITY SYSTEM ELECTRONIC DOOR STRIKE. PROVIDE 1/2" CONDUIT STUB. SEE NOTE 6.
- PB — 4-SQUARE OUTLET BOX MOUNTED + 45" A.F.F. UNLESS NOTED. PROVIDE 1/2" CONDUIT STUB. SEE NOTE 6.
- AP — FUTURE WIRELESS ANTENNA CEILING MOUNTED ON SURFACE.
- WP AP-H — FUTURE WIRELESS ACCESS ANTENNA, WALL MOUNTED IN NEMA 3R ENCLOSURE AT HEIGHT REQUIRED BY PCOE I.T. DEPARTMENT. (2)

- F/S — FIRE/SMOKE DAMPER PROVIDED BY OTHER DIVISION, CONNECTION BY ELECTRICAL. SEE MECHANICAL PLANS
- PANELBOARD - SURFACE MOUNTED
- EXISTING PANELBOARD - SURFACE MOUNTED
- TERMINAL CABINET
- SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
- EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, FUSED WITH FUSE SIZE TO MATCH EQUIPMENT NAMEPLATE.
- EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, NON-FUSIBLE
- EQUIPMENT CIRCUIT BREAKER DISCONNECT - EXTERNALLY OPERATED
- EQUIPMENT CONTROLLER
- $\$_{OL}$ — TOGGLE TYPE MOTOR RATED DISCONNECT SWITCH WITH OVERLOAD PROTECTION
- EQUIPMENT MOTOR POWER CONNECTIONS PART OF ELECTRICAL WORK
- EQ 1 — MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS
- EXISTING CONDUIT AND WIRING
- EXISTING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. COORDINATE WITH OWNER.
- ///< — CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.
- FLEXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.
- CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
- CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
- CONDUIT TURNED AND RISED UP
- CONDUIT TURNED AND DROPPED DOWN
- CONDUIT WITH CAP
- CONDUIT STUB WITH INSULATED BUSHING
- 1 — DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET
- 1 / E1 — DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER
- T — ELECTRICAL TRANSFORMER. RATING PER SPECIFICATIONS.

SYMBOL LIST NOTES:

1. "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER.
2. MINIMUM CONDUCTOR SIZE FOR 120V BRANCH CIRCUITS SHALL BE #12 AWG. AT A MINIMUM ALL BRANCH CIRCUITS SHALL CONTAIN 3/4"C, 2#12 AWG AND 1#12 GND UNLESS OTHERWISE INDICATED.
3. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
4. ELECTRICAL OUTLET BOXES MOUNTED ON OPPOSITE SIDES OF FIRE-RATED WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES PER CBC, WHETHER SHOWN ON THE PLANS OR NOT.
5. VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.
6. WHERE CONDUIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND PULL ROPE INTO ACCESSIBLE CEILING AREA.

ELECTRICAL SHEET INDEX

No. OF SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	E0.01	ELECTRICAL SHEET INDEX, ABBREVIATIONS, SYMBOL LIST, AND NOTES
2	E0.02	LUMINAIRE SCHEDULE AND ELECTRICAL NOTES
3	E1.01	SITE PLAN - ELECTRICAL
4	E1.02	ENLARGED SITE PLAN - ELECTRICAL (2)
5	E1.03	ENLARGED SITE PLAN - LIGHTING
6	E2.01	FIRST FLOOR PARTIAL PLAN - DEMOLITION - WEST - LIGHTING
7	E2.02	SECOND FLOOR PARTIAL PLAN - DEMOLITION - WEST - LIGHTING
8	E2.03	SECOND FLOOR PARTIAL PLAN - DEMOLITION - EAST - LIGHTING
9	E2.04	FIRST FLOOR PARTIAL PLAN - REMODEL - WEST - LIGHTING
10	E2.05	SECOND FLOOR PARTIAL PLAN - REMODEL - WEST - LIGHTING
11	E2.06	SECOND FLOOR PARTIAL PLAN - REMODEL - EAST - LIGHTING
12	E3.01	FIRST FLOOR PARTIAL PLAN - DEMOLITION - WEST - ELECTRICAL
13	E3.02	SECOND FLOOR PARTIAL PLAN - DEMOLITION - WEST - ELECTRICAL
14	E3.03	SECOND FLOOR PARTIAL PLAN - DEMOLITION - EAST - ELECTRICAL
15	E3.04	FIRST FLOOR PARTIAL PLAN - REMODEL - WEST - ELECTRICAL
16	E3.05	SECOND FLOOR PARTIAL PLAN - REMODEL - WEST - ELECTRICAL
17	E3.06	SECOND FLOOR PARTIAL PLAN - REMODEL - EAST - ELECTRICAL
18	E4.01	PARTIAL ONE LINE POWER DIAGRAM, AND LOAD CALCULATIONS
19	E4.02	PANEL SCHEDULES
20	E5.01	ELECTRICAL DETAILS
21	E5.02	ELECTRICAL DETAILS
22	E6.01	TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS
23	E6.02	TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS
24	E6.03	TITLE 24 OUTDOOR LIGHTING COMPLIANCE FORMS (2)

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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08/30/2023

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Project
TENANT IMPROVEMENTS

Sheet Title
ELECTRICAL SHEET INDEX, ABBREVIATIONS, SYMBOL LIST, AND NOTES

Client Project Number: N/A

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Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
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Sheet **E0.01**

Sheet 1 of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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APPLICABLE CODES AND REGULATIONS

THE FOLLOWING ARE THE ENFORCEABLE CODES FOR FACILITIES UNDER THE AUTHORITY OF THE ALFRED E. ALQUIST HOSPITAL FACILITIES SEISMIC SAFETY ACT OF 1983:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)).

2022 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR (2021 IBC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR (2020 NEC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR (2021 UMC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR (2021 UPC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR (2021 IFC AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE - PART 11, TITLE 24

2015 N.F.P.A. 101 LIFE SAFETY CODE

2016 N.F.P.A. 72 NATIONAL FIRE ALARM CODE

2016 EDITION TITLE 19, CALIFORNIA CODE OF REGULATIONS, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

TITLE 8, CALIFORNIA CODE OF REGULATIONS, INDUSTRIAL STANDARDS.

TITLE 22, CALIFORNIA CODE OF REGULATIONS, SOCIAL SECURITY DIVISIONS 5, 7.

THE DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION (HCAI) REGULATIONS.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

FACTORY MUTUAL SYSTEM (FM) REQUIREMENTS.

ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS

DEMOLITION GENERAL NOTES

1. INFORMATION SHOWN RELATIVE TO EXISTING CONDITIONS IS BASED UPON AVAILABLE RECORDS AND DATA. THEREFORE, IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND/OR BEFORE START OF ANY ELECTRICAL WORK, INSPECT ALL EXISTING LOCATIONS AND CONDITIONS AND ASCERTAIN WORK REQUIRED TO CLEAR PROJECT AREA OF ALL EXISTING ELECTRICAL ITEMS NOT BEING REUSED OR EXISTING TO REMAIN AS IS. REPORT ALL DISCREPANCIES AND COORDINATE ALL DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE. MAINTAIN SERVICE TO EXISTING ELECTRICAL EQUIPMENT IN AREAS ADJACENT TO REMODEL AREA, UNLESS OTHERWISE NOTED.
2. PROTECT ALL EXISTING ELECTRICAL EQUIPMENT ON EXISTING WALLS AND CEILINGS NOT REQUIRED TO BE DEMOLISHED UNLESS OTHERWISE NOTED. DELIVER ALL EXISTING ELECTRICAL EQUIPMENT IN REMODELED AREAS, THAT ARE REMOVED AND NOT REUSED ELSEWHERE, AND ARE DEEMED TO BE SALVAGEABLE IN THE JUDGMENT OF THE CONTRACTOR AND OWNER'S REPRESENTATIVE, TO THE OWNER. DELIVER ALL SALVAGED ELECTRICAL EQUIPMENT AND OTHER ITEMS TO A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. REMOVE FROM SITE, ALL OTHER ELECTRICAL EQUIPMENT, HARDWARE, AND OTHER ITEMS THAT ARE DEEMED UNSALVAGEABLE BY CONTRACTOR AND THE OWNER'S REPRESENTATIVE.
3. CUT, PATCH AND MATCH IN ALL AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND DEVICES.
4. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND SERVICES. SCHEDULE ANY POWER OR OTHER UTILITY SHUTDOWN WITH THE OWNER'S REPRESENTATIVE. SHUTDOWNS WHICH MAY BE REQUIRED SHALL BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN WORK SHALL BE PERFORMED ON OVERTIME HOURS IF SO DIRECTED BY OWNER'S REPRESENTATIVE.
5. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, OUTLETS, DEVICES, CONDUIT, WIRING AND OTHER ELECTRICAL ITEMS, WHETHER SHOWN OR NOT, FROM EXISTING CEILINGS AND WALLS WHICH ARE TO BE DEMOLISHED. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REMAINING DEVICES, UNLESS OTHERWISE NOTED.
6. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
7. RELOCATE ALL CONDUITS THAT ARE TO REMAIN IN SERVICE WHICH ARE IN A LOCATION TO CONFLICT WITH NEW WORK.
8. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, AND OTHER ITEMS, CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS TO COORDINATE WITH NEW CONSTRUCTION.
9. REUSE EXISTING CONDUITS AND WIRING WHEREVER POSSIBLE UNLESS OTHERWISE NOTED TO BE REMOVED.
10. PROVIDE PROTECTIVE COVERING OVER EXISTING EQUIPMENT WHEN INSTALLING ALL NEW WORK.
11. DISPOSAL OF BALLASTS: DISPOSE OR RECYCLE ALL EXISTING BALLASTS PROPERLY ACCORDING TO ENVIRONMENTAL PROTECTION AGENCY (EPA) AND RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) STANDARDS. INCLUDE ALL COSTS FOR DISPOSAL OR RECYCLING IN BID PROPOSAL. A CURRENT LIST OF BALLAST RECYCLERS CAN BE OBTAINED THROUGH https://www.epa.gov/pcbs/list-approved-polychlorinated-biphenyl-pcb-commercial-storage-and-disposal-facilities. COMMERCIAL STORAGE FACILITIES OR LANDFILL FACILITIES AS MEANS OF DISPOSAL IS NOT ALLOWED.
12. ASBESTOS REMOVAL: IN THE EVENT ASBESTOS IS FOUND TO BE PRESENT IN AREAS CONFLICTING WITH ELECTRICAL WORK, BEFORE CONTINUATION OF WORK IN THOSE AREAS, NOTIFY THE OWNER'S REPRESENTATIVE FOR THE REMOVAL OF SUCH HAZARDOUS MATERIAL BY A CERTIFIED ASBESTOS CONTRACTOR.
13. CIRCUIT NUMBERS AND CIRCUITING BASED UPON AS-BUILTS. ACTUAL CONDITION MAY VARY. TRACE AND VERIFY ALL CIRCUITS SHOWN ARE AVAILABLE FOR DEMOLITION AND REUSE DURING THE REMODEL PHASE. DOCUMENT ALL CHANGES ON AS-BUILT DRAWINGS.

BRANCH CIRCUIT VOLTAGE DROP TABLE

VOLTAGE DROP VALUES NOT EXCEEDING 2% FOR FEEDERS HAVE BEEN SHOWN ON THE ONE LINE DIAGRAM. IN LIEU OF VOLTAGE DROP CALCULATIONS FOR EACH BRANCH CIRCUIT IN SCOPE OF WORK, THE GENERAL DESIGN STANDARD BELOW HAS BEEN FOLLOWED TO ENSURE A VOLTAGE DROP OF 3% IS NOT EXCEEDED. WHERE THE CIRCUIT LOAD OR CIRCUIT LENGTH LISTED HAS BEEN EXCEEDED, A DETAILED VOLTAGE DROP CALCULATION FOR THAT CIRCUIT HAS BEEN PROVIDED WITH THE TITLE 24 COMPLIANCE DOCUMENTATION.

VOLTAGE	MAXIMUM CIRCUIT LOAD FOR 20 AMP CIRCUIT BREAKER	CONDUCTOR SIZE	MAXIMUM BRANCH CIRCUIT LENGTH
120 VOLT	9 AMPS (1.08 KVA)	#8 AWG	285 FEET
		#10 AWG	180 FEET
		#12 AWG	115 FEET
	12 AMPS (1.44 KVA)	#8 AWG	210 FEET
		#10 AWG	135 FEET
		#12 AWG	85 FEET
	16 AMPS (1.92 KVA)	#8 AWG	130 FEET
		#10 AWG	85 FEET
		#12 AWG	55 FEET
208 VOLT	9 AMPS (1.87 KVA)	#8 AWG	440 FEET
		#10 AWG	285 FEET
		#12 AWG	170 FEET
	12 AMPS (2.49 KVA)	#8 AWG	330 FEET
		#10 AWG	215 FEET
		#12 AWG	130 FEET
	16 AMPS (3.33 KVA)	#8 AWG	250 FEET
		#10 AWG	160 FEET
		#12 AWG	95 FEET
277 VOLT	9 AMPS (2.49 KVA)	#8 AWG	660 FEET
		#10 AWG	420 FEET
		#12 AWG	270 FEET
	12 AMPS (3.32 KVA)	#8 AWG	495 FEET
		#10 AWG	315 FEET
		#12 AWG	200 FEET
	16 AMPS (4.43 KVA)	#8 AWG	370 FEET
		#10 AWG	235 FEET
		#12 AWG	150 FEET
480 VOLT	9 AMPS (2.49 KVA)	#8 AWG	1320 FEET
		#10 AWG	840 FEET
		#12 AWG	540 FEET
	12 AMPS (3.32 KVA)	#8 AWG	980 FEET
		#10 AWG	620 FEET
		#12 AWG	400 FEET
	16 AMPS (4.43 KVA)	#8 AWG	740 FEET
		#10 AWG	460 FEET
		#12 AWG	300 FEET

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER / CATALOG NO.	VOLTAGE / DESCRIPTION	LIGHT SOURCE (LED, WATTS, LUMENS, COLOR TEMPERATURE, CRI, R9 IF AVAILABLE)	MOUNTING	REMARK NOTE No.
A	FLUXWERX NB2-24-D-35-E1-M	UNV 120-277V 2X4 LED	LED, 47W, 5246LM, 3500K, 80CRI	T-BAR CEILING LAY-IN	1 2
B1	FLUXWERX NB1-22-B-35-E1-M	UNV 120-277V 2X2 LED	LED, 29W, 3300LM, 3500K, 80CRI	T-BAR CEILING LAY-IN	1 2
B2	FLUXWERX NB1-22-D-35-E1-M	UNV 120-277V 2X2 LED	LED, 47W, 5100LM, 3500K, 80CRI	T-BAR CEILING LAY-IN	1 2
C	LIGHTOLIER-SIGNIFY P6S-DL-25-935-CL-Z10-U	UNV 120-277V LED DOWNLIGHT	LED, 23.6W, 2500LM, 3500K, 90CRI	RECESSED	2
D	BRUCK - RENATA WEPLIGHT WEP-REN-32-LLED-3018-95	120-277V 12" ROUND LED CANOPY PENDANT	LED, 15.6W, 850LM, 3000K, 95CRI	SUSPENDED	
E	FINELITE HP-2-AM-WW-D-8'-K-V-835-277-FC-1%-AM12	UNV 120-277V LED LINEAR WALL WASHER	LED, 20.8W, 1872LM, 3500K, 80CRI	WALL, ARM MOUNT	2
F1	VODE LIGHTING LLC 707-Z2-SL-24'-ZZ-T1-AE-2-Z-SO-35-S4	UNV 120-277V 24' LINEAR LED	LED, 158.4W, 20352LM, 3500K, 80CRI	9/16" T-BAR CLIP, LOW PROFILE	2
F2	VODE LIGHTING LLC 707-Z2-SL-8'-96-T1-AE-2-Z-SO-35-S4	UNV 120-277V 8' LINEAR LED	LED, 52.8W, 6784LM, 3500K, 80CRI	9/16" T-BAR CLIP, LOW PROFILE	2
G	BRUCK - RENATA WEPLIGHT WEP-REN-30-LLED-3018-95	UNV 120-277V 11" ROUND LED CANOPY PENDANT	LED, 15.6W, 850LM, 3000K, 95CRI	SUSPENDED	
H	KENALL AUCLED-I-20L35K-277	277V 48" UNDER-CABINET LED	LED, 22W, 2003LM, 3500K	UNDER CABINET	
I	SONNEMAN SKU: 2583.25	120V 3-ARM LED CHANDELIER	LED, 75W, 2800LM, 3000K, 90 CRI	SUSPENDED	
J	LIGHTOLIER-SIGNIFY S7R-8-35K-10	277V ROUND LED DOWNLIGHT	LED, 14.7W, 1000LM, 3000K, 80 CRI	RECESSED	
K	AFX SSP-05MBSNSMRND3	120V MULTI ROUND PENDANT	LED, 60W	SUSPENDED	
L	NERA FNRS-	UNV 120-277V 8' LINEAR LED	LED, 36.2W, 4000LM, 3500K, 80 CRI	SUSPENDED	
M1	WILLIAMS LLM-4-L20-8-35-S-SQ	UNV 120-277V 1X4 LINEAR LED	LED, 13.8W, 2027LM, 3500K, 80CRI	SURFACE MOUNT	1
M2	WILLIAMS LLM-4-L20-8-35-P-SQ	UNV 120-277V 1X4 LINEAR LED, SUSPENDED	LED, 13.8W, 2027LM, 3500K, 80CRI	SUSPENDED	
O	LITHONIA KBR8 LED 16C 40K SYM MVOLT	UNV 120-277V 8" LED BOLLARD	LED, 39W, 2180LM, 4000K, >70CRI	GROUND	4 5
X	WILLIAMS EXIT / CA - G - AF - WHT - EM	UNV 120-277V EXIT LIGHT	LED, 3.6W	UNIVERSAL MOUNT	
X1	CHLORIDE BY SIGNIFY CLU3-N-W	120-277V 4" EMERGENCY LED LUMINAIRE	LED, 6.6W, 5000K	WALL MOUNTED	1 3

LUMINAIRE SCHEDULE REMARK NOTES:

1. PROVIDE WITH SELF TESTING, SELF DIAGNOSTIC BATTERY PACK TO MAINTAIN ILLUMINATION FOR A MINIMUM OF 90 MINUTES PER CBC TO PROVIDE FULL LUMEN OUTPUT. WHERE INDICATED AS EM. BATTERY PACK OPTION PROVIDED BY MANUFACTURER FOR LUMINAIRES ON EMERGENCY POWER.
2. CONTROLS TO BE WATTSTOPPER DLM SYSTEM AND SHALL MEET TITLE 24 REQUIREMENTS.
3. BRANCH CIRCUIT TO TIE INTO SAME BRANCH CIRCUIT SERVING NORMAL LIGHTING.
4. FINISH BY ARCHITECT.
5. BOLLARD TO BE CONTROLLED BY EXISTING LIGHTING CONTROL PANEL TO MEET TITLE 24 CONTROLS FOR OUTDOOR LIGHTING REQUIREMENTS.

GENERAL NOTE:

REFER TO PLAN FOR LOCATION, AND SWITCH FUNCTION.

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Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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HY Architects Project number: 6013

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TENANT IMPROVEMENTS

Sheet Title

LUMINAIRE SCHEDULE AND ELECTRICAL NOTES

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
Revit Version: 2023

Sheet

E0.02

Sheet 1 of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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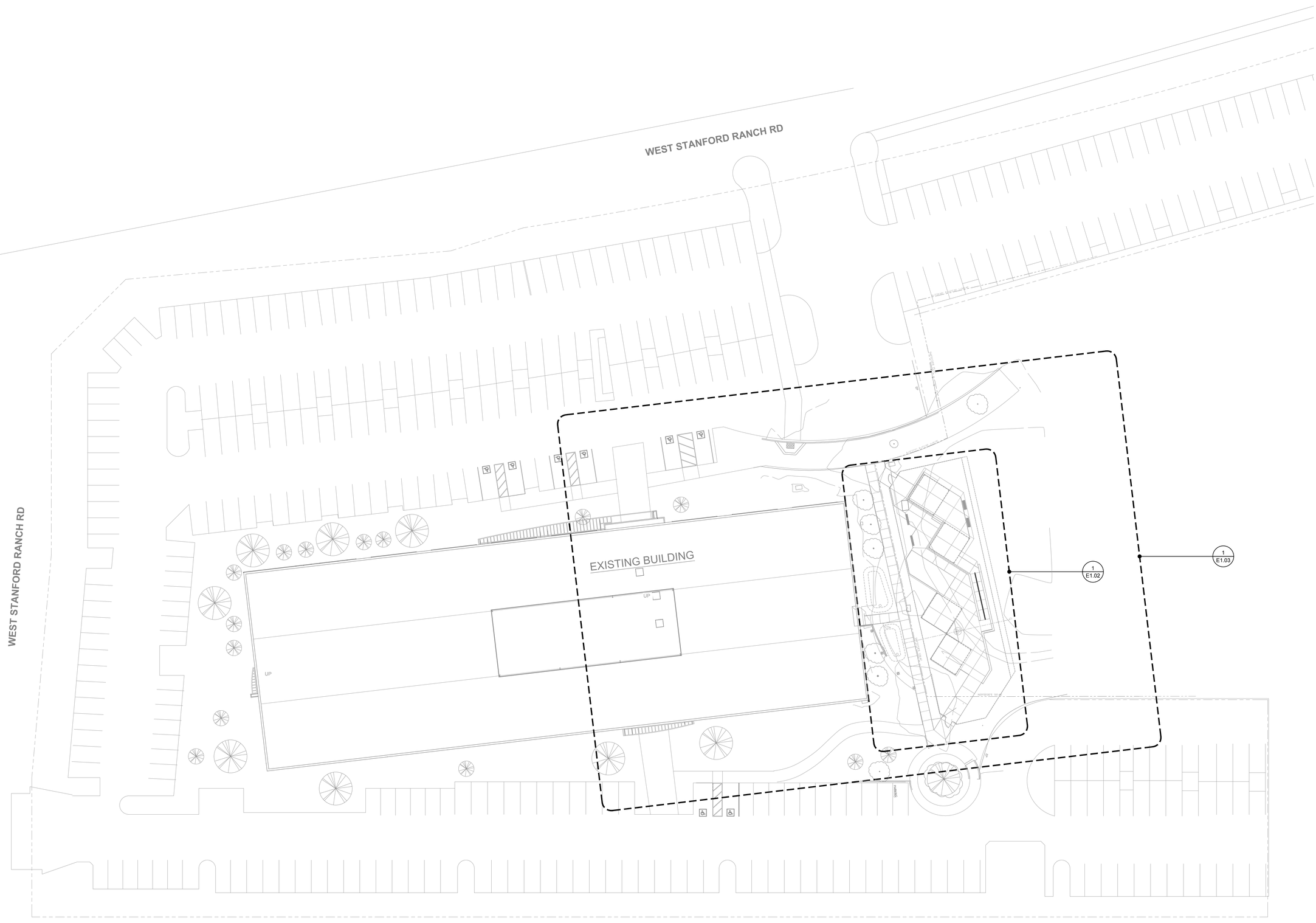

1 E1.01 SITE PLAN - ELECTRICAL

SCALE : 1" = 20'-0"

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SITE PLAN - ELECTRICAL

Client Project Number: N/A

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

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Sheet E1.01 2

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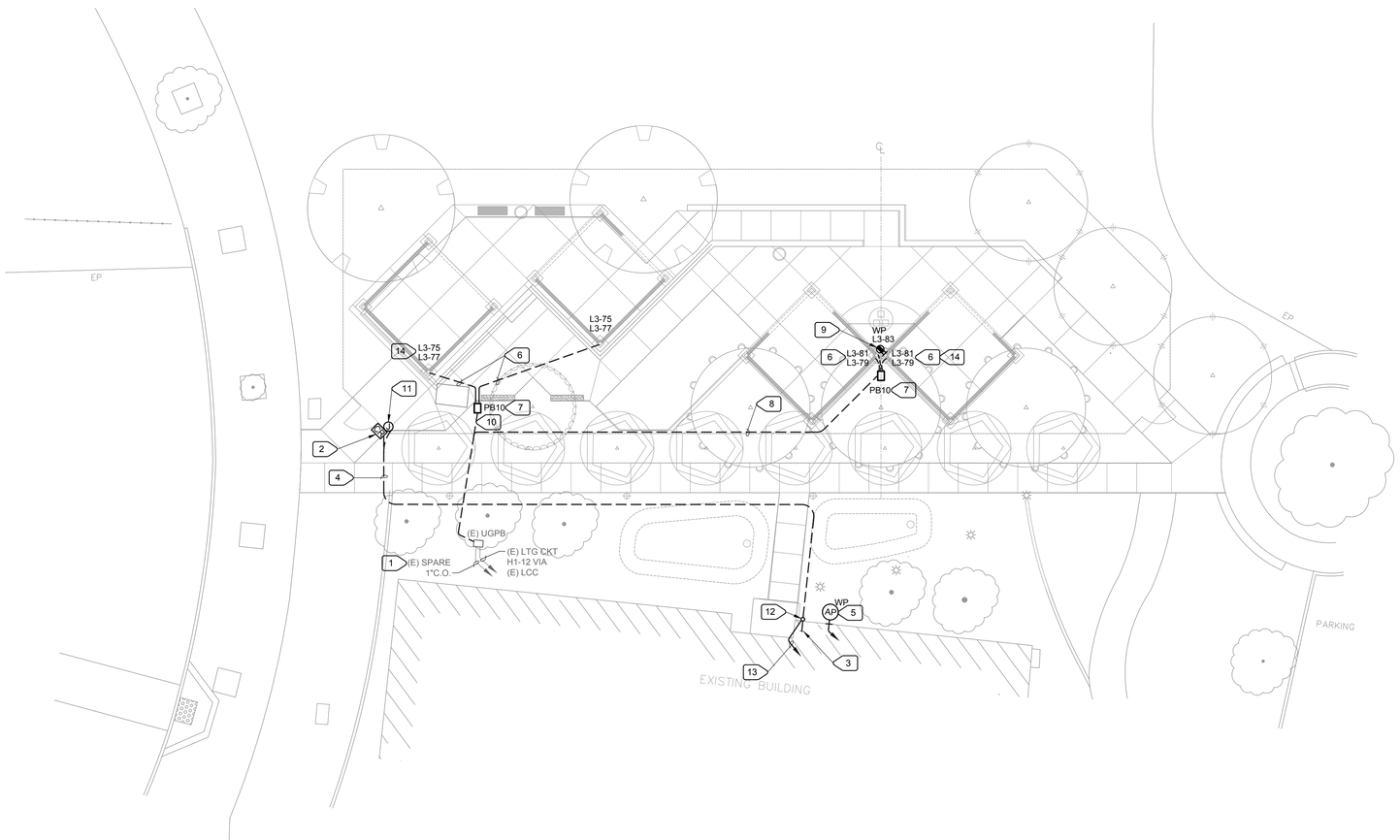
GENERAL NOTE

1. CEC 210.4 REQUIRES THAT ALL MULTI-WIRE BRANCH CIRCUITS THAT SHARE A NEUTRAL CONDUCTOR MUST HAVE A BREAKER HANDLE TIE SO THAT EACH CIRCUIT IS DISCONNECTED SIMULTANEOUSLY OR A SEPARATE NEUTRAL CONDUCTOR MUST BE USED FOR EACH CIRCUIT.

NUMBERED NOTES

1. EXISTING 1"C. PROVIDE 10 #10, 1 #10 GND TO EXISTING PANEL "L3".
2. PROVIDE CARD READER AT BOX PROVIDED ON FENCE. REFER TO DETAIL "8/L4.1".
3. STUB CARD READER CONDUIT INTO ABOVE CEILING SPACE. PROVIDE PROTECTIVE BUSHING ON CONDUIT STUB. PROVIDE CARD READER CABLE TO ACP PANEL IN MAIN TELEPHONE TERMINAL ROOM.
4. 1"C. WITH CARD READER CABLE AND 1"C. WITH 2 #10, 1 #10 GND (ELECTRIC STRIKE POWER).
5. LOCATE FOR WIRELESS ACCESS POINT. VERIFY EXACT HEIGHT WITH PCOE I.T. DEPARTMENT. PROVIDE 1"C. WITH (2) CAT6 DATA CABLES BACK TO MDF IN SERVER ROOM 126B. RUN CONDUIT IN ABOVE CEILING SPACE.
6. 1"C WITH 2 #10 (LTG RCPT), 2 #10 (RECPT), 1 #10 GND. EXTEND TO UPFIT LIGHTING RECEPTACLE LOCATION AND TO UPFIT POWER GARAGE. COORDINATE WITH UPFIT DRAWING SUBMITTAL.
7. SPLICE CONDUCTORS IN PULLBOX.
8. 1"C WITH 2 #10 (LTG RCPT), 2 #10 (RECPT), 2 #10 (PUMP), 1 #10 GND.
9. LOCATE FOR PONDLESS WATER FEATURE PUMP. PROVIDE METAL WEATHERPROOF, LOCKABLE WHILE-IN-USE COVER. MOUNT 12" ABOVE FINISHED GRADE ON UPFIT POST. PROVIDE 1/2" RIGID GALVANIZED STEEL CONDUIT WITH 2 #10, 1 #10 GND. PAINT TO MATCH STRUCTURE.
10. 1"C. WITH 2 #10 (LTG RCPT), 2 #10 (RECPT.), 1 #10 GND.
11. LOCATE FOR ELECTRIC STRIKE.
12. RISE ON BUILDING EXTERIOR WITH CONDUITS. PAINT EXPOSED CONDUIT TO MATCH BUILDING.
13. EXTEND 1"C. WITH 2 #10, 1#10 GND TO PANEL L3 CIRCUIT 73 FOR ELECTRIC STRIKE POWER.
14. EXTEND 3/4"C WITH RECEPTACLE CIRCUIT UNDER SLAB TO GO TABLE POWER GARAGE.



1 / E1.02 ENLARGED SITE PLAN - ELECTRICAL

SCALE : 1" = 10'-0"

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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08/30/2023

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Project

TENANT IMPROVEMENTS

Sheet Title

ENLARGED SITE PLAN - ELECTRICAL

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
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Revit Version: 2023

Sheet E1.02 2

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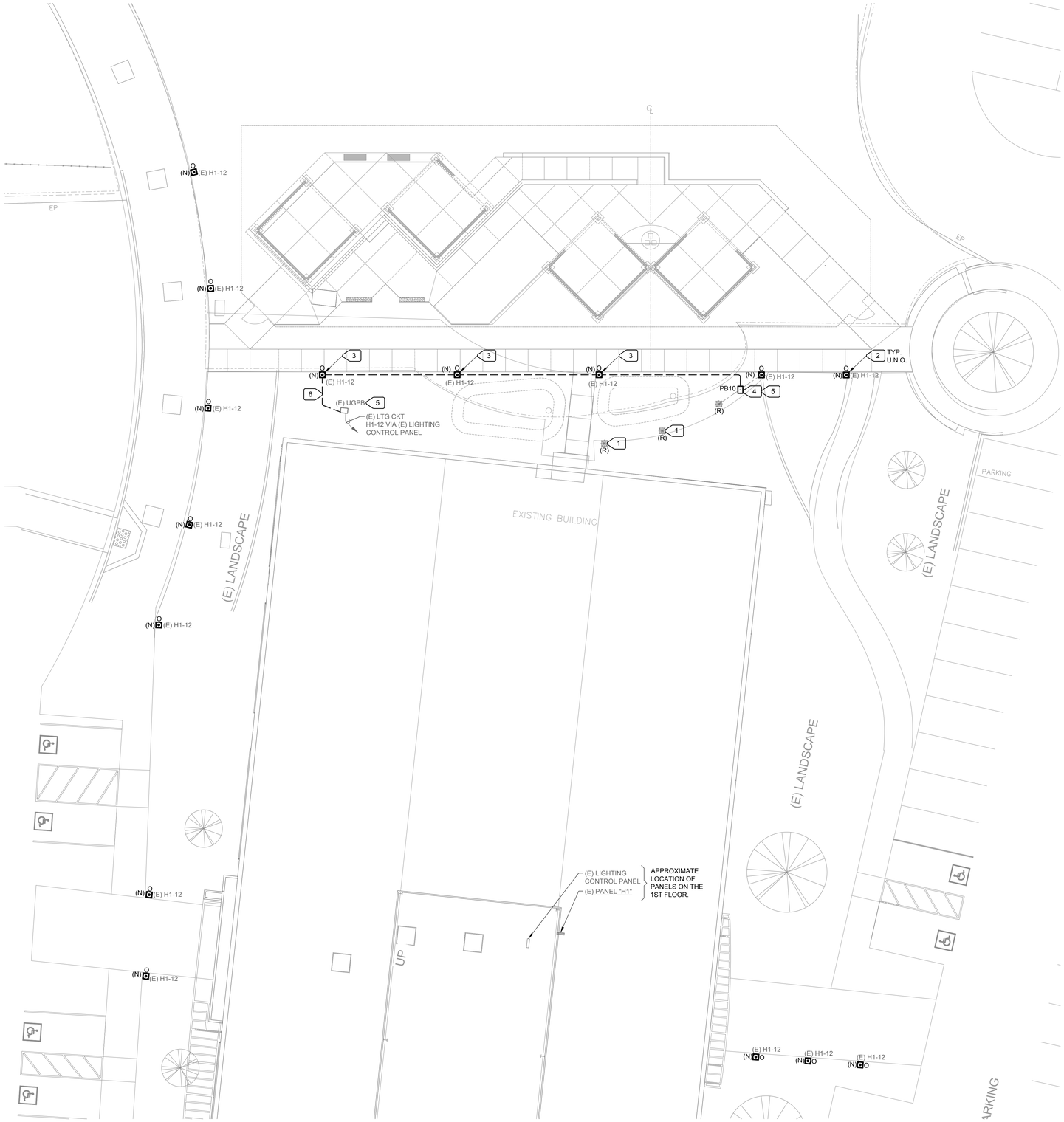

NUMBERED NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHTING BOLLARD. REMOVE EXISTING CONDUCTORS BACK TO EXISTING UNDERGROUND PULLBOX.
2. EXISTING 100W MH 8" BOLLARD TO BE REPLACED ONE-FOR-ONE WITH NEW TYPE "O" BOLLARD. REUSE EXISTING CIRCUIT AND CONTROLS.
3. PROVIDE NEW TYPE "O" BOLLARD IN INDICATED NEW LOCATION.
4. LOCATE EXISTING LIGHTING CIRCUIT AND INTERCEPT WITH NEW UNDERGROUND PULLBOX.
5. SPLICE EXISTING CONDUCTORS TO NEW IN NEW PULLBOX.
6. EXTEND EXISTING CIRCUIT AND CONTROLS TO NEW BOLLARD LOCATIONS.

1 E1.03 ENLARGED SITE PLAN - LIGHTING

SCALE : 1" = 10'-0"

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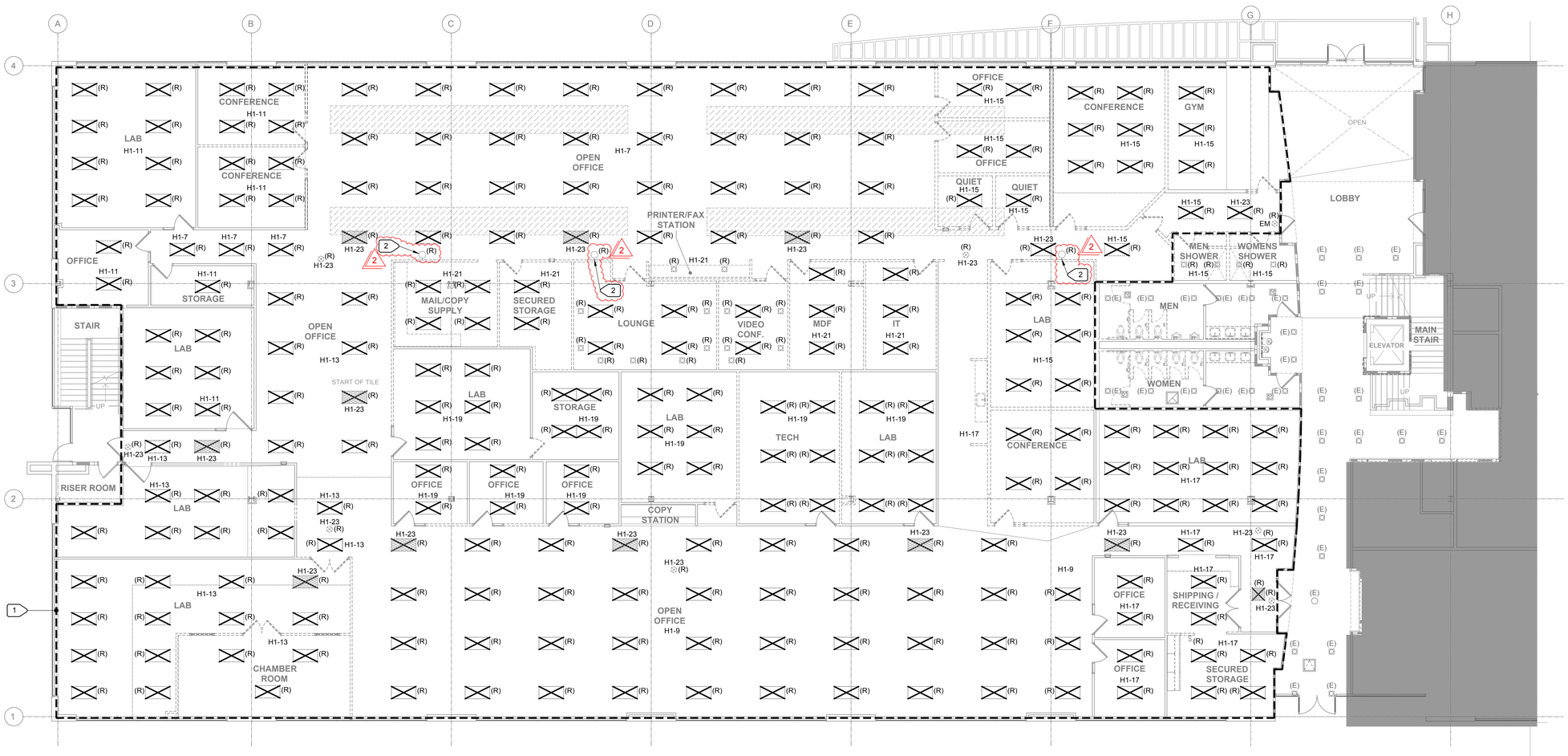
NUMBERED NOTES

1. DISCONNECT AND REMOVE EXISTING 2x4 LUMINAIRES AND LUMINAIRE CONTROLS. PREP EXISTING CIRCUITS FOR RECONNECTION TO NEW LUMINAIRES. TYPICAL.
2. DISCONNECT AND REMOVE EXISTING WALL SCONCE. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.



1 E2.01 — FIRST FLOOR PARTIAL PLAN - DEMOLITION - WEST - LIGHTING

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

PCOE — GOLD IN EDUCATION

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FIRST FLOOR PARTIAL PLAN - DEMOLITION - WEST - LIGHTING

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PROJECT MGR: Y. Van Zanten

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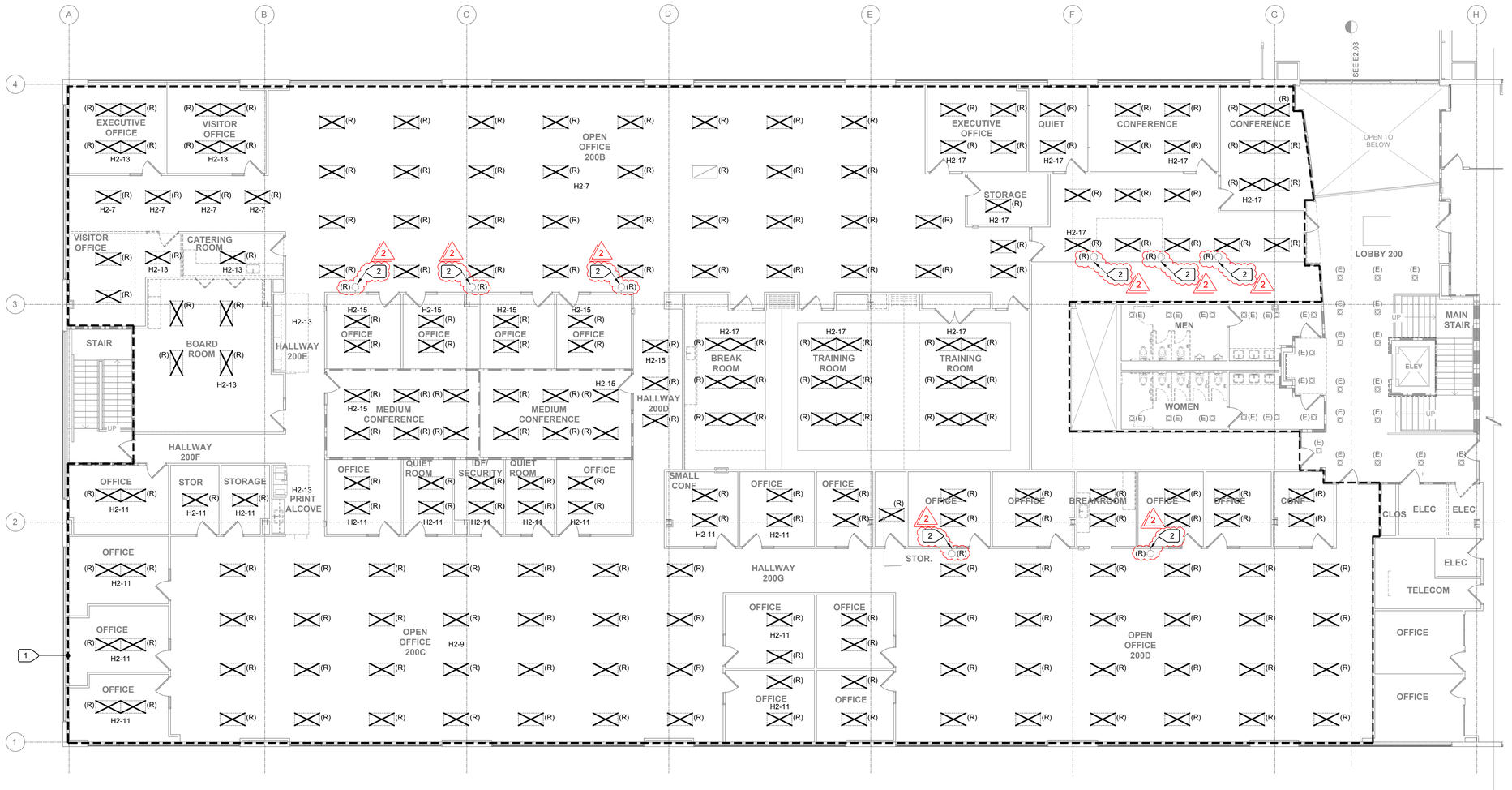
GENERAL NOTES

1. LIGHTING RECORD DRAWINGS FOR AREAS WITHOUT CIRCUIT NUMBERS ARE MISSING. CONTRACTOR TO FIELD VERIFY CIRCUIT NUMBERS.

NUMBERED NOTES

1. DISCONNECT AND REMOVE EXISTING 2x4 LUMINAIRES AND LUMINAIRE CONTROLS. PREP EXISTING CIRCUITS FOR RECONNECTION TO NEW LUMINAIRES. TYPICAL.
2. DISCONNECT AND REMOVE EXISTING WALL SCONCE. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.



1 E2.02 SECOND FLOOR PARTIAL PLAN - DEMOLITION - WEST - LIGHTING

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

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SECOND FLOOR PARTIAL PLAN - DEMOLITION - WEST - LIGHTING

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

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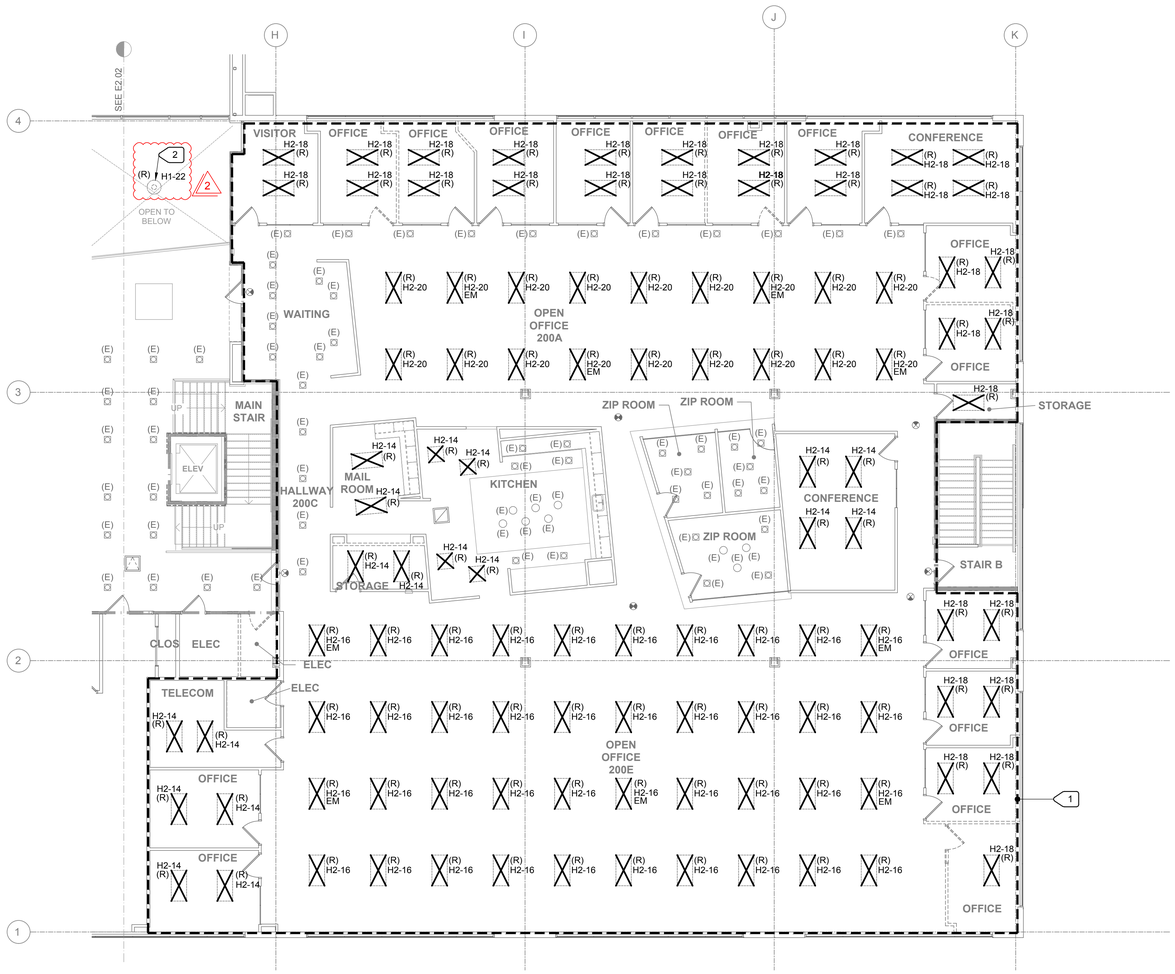
NUMBERED NOTES

1. DISCONNECT AND REMOVE EXISTING 2X4 AND 2X2 LUMINAIRES AND LUMINAIRE CONTROLS. PREP EXISTING CIRCUITS FOR RECONNECTION TO NEW LUMINAIRES. TYPICAL.
2. DISCONNECT AND REMOVE EXISTING CHANDELIER AND ASSOCIATED CONTROLS. REMOVE EXISTING CIRCUIT BACK TO SOURCE OR LAST REMAINING DEVICE.



1 / E2.03 SECOND FLOOR PARTIAL PLAN - DEMOLITION - EAST - LIGHTING

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

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SECOND FLOOR PARTIAL PLAN - DEMOLITION - EAST - LIGHTING

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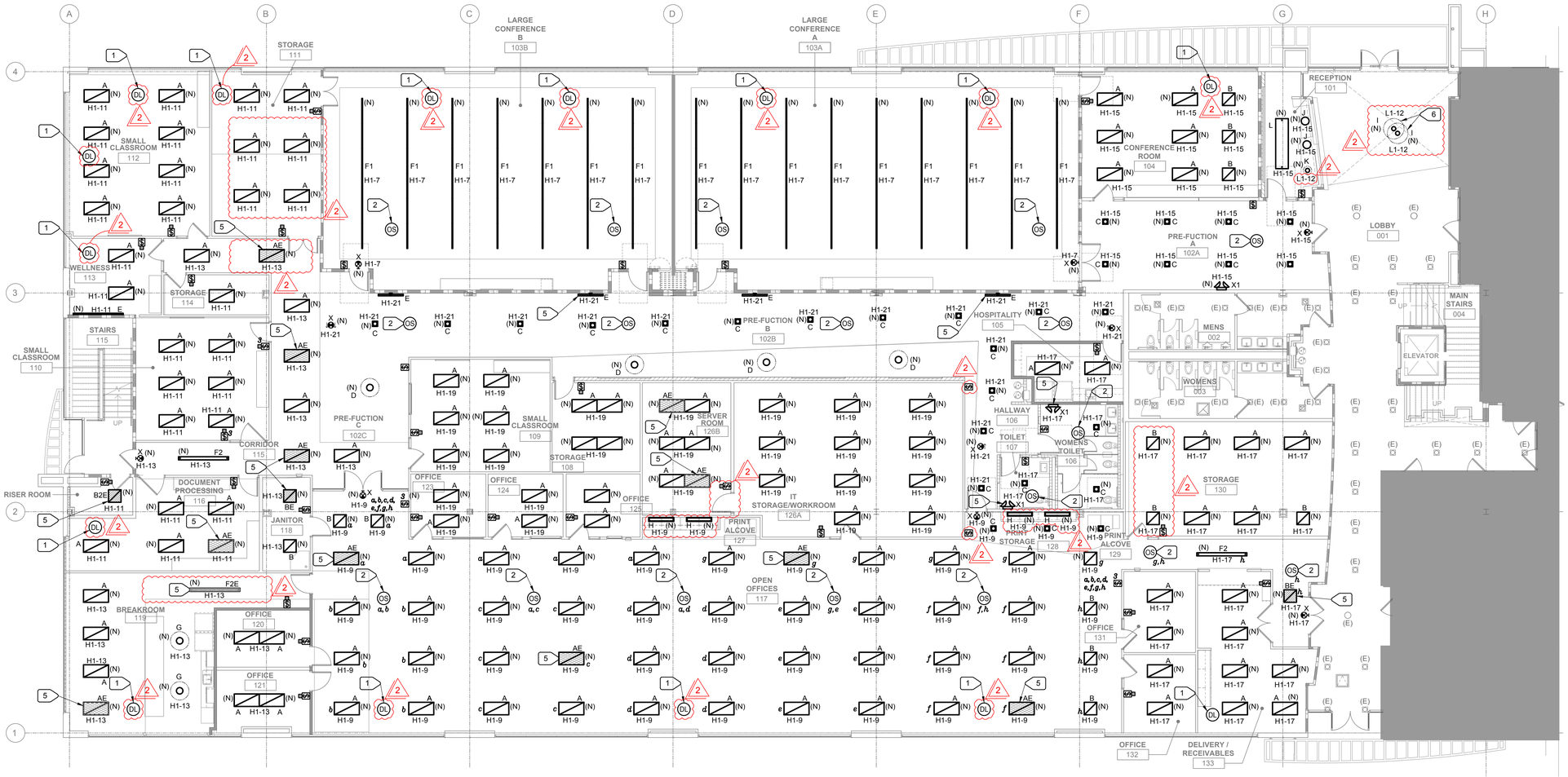
GENERAL NOTE

1. CONNECT NEW LUMINAIRES TO EXISTING CIRCUITS.
2. EMERGENCY LIGHTING AND EXIT LIGHTS ARE TO BE CONNECTED TO GENERAL ROOM LIGHTING CIRCUIT. CIRCUIT ALL EMERGENCY LIGHTS/EXIT SIGNS AHEAD OF LOCAL SWITCHING.

NUMBERED NOTES

1. PROVIDE DAYLIGHT SENSOR. SYMBOL REPRESENTS ZONE TO BE CONTROLLED AND IS NOT IN THE EXACT LOCATION, NOR SHOWING THE EXACT QUANTITY OF SENSORS. CONTRACTOR SHALL SUBMIT FLOOR PLANS WITH EXACT LOCATION AND QUANTITIES FOR APPROVAL.
2. PROVIDE OCCUPANCY SENSOR. AVOID MOUNTING SENSORS CLOSE TO AIR VENTS (PIR SENSORS SHOULD NOT BE WITHIN 4FT OF AIR VENT. ULTRASONIC SENSORS SHOULD NOT BE WITHIN 6FT OF AN AIR VENT), TYPICAL. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE MULTI-FUNCTIONAL DIMMING SWITCH.
4. EXISTING CIRCUITS IN PANEL "H1" TO BE REUSED.
5. INTERNAL BATTERY PROVIDED BY LUMINAIRE MANUFACTURER. ON LOSS OF POWER, LIGHTING TO BE 100% ON.
6. PROVIDE TWO NEW SUSPENDED LED CHANDELIERS. CONTRACTOR TO COORDINATE MOUNTING PLACEMENT WITH ARCHITECT.



1 / E2.04 FIRST FLOOR PARTIAL PLAN - REMODEL - WEST - LIGHTING

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

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Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

KEY PLAN

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REGISTERED PROFESSIONAL ENGINEER YVETTE J. VAN ZANTEN No. E15483 Exp. 6/30/25 ELECTRICAL STATE OF CALIFORNIA

08/30/2023

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Facility

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Project

TENANT IMPROVEMENTS

Sheet Title

FIRST FLOOR PARTIAL PLAN - REMODEL - WEST - LIGHTING

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **E2.04**

Sheet . of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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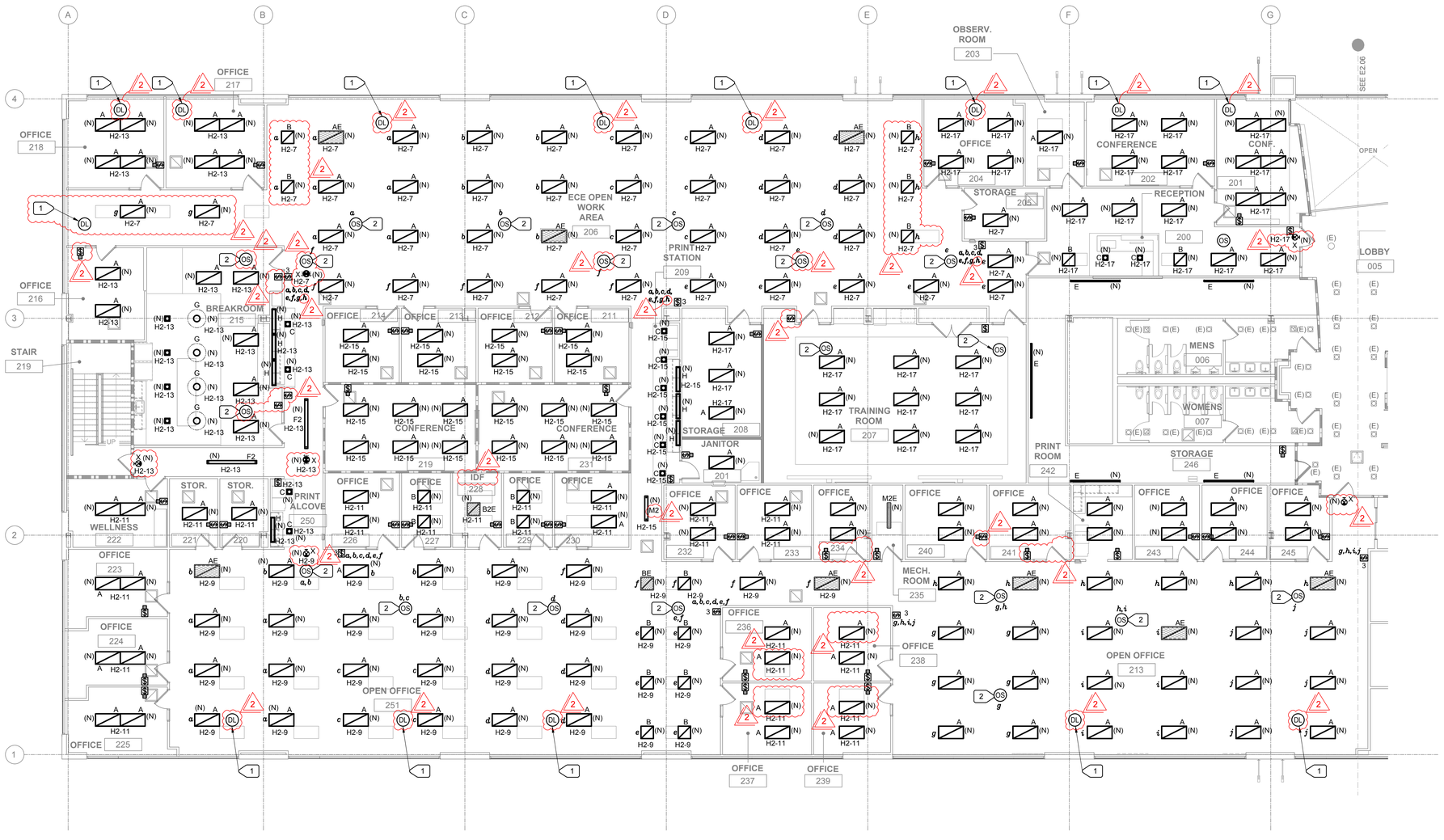
GENERAL NOTE

1. CONNECT NEW LUMINAIRES TO EXISTING CIRCUITS.
2. EMERGENCY LIGHTING AND EXIT LIGHTS ARE TO BE CONNECTED TO GENERAL ROOM LIGHTING CIRCUIT. CIRCUIT ALL EMERGENCY LIGHTS/EXIT SIGNS AHEAD OF LOCAL SWITCHING.
3. CONTRACTOR TO VERIFY CIRCUITS FOR AREAS SHOWN WITHOUT CIRCUIT NUMBERS. AS-BUILT DRAWINGS ARE NOT AVAILABLE FOR THESE AREAS.

NUMBERED NOTES

1. PROVIDE DAYLIGHT SENSOR. SYMBOL REPRESENTS ZONE TO BE CONTROLLED AND IS NOT IN THE EXACT LOCATION, NOR SHOWING THE EXACT QUANTITY OF SENSORS. CONTRACTOR SHALL SUBMIT FLOOR PLANS WITH EXACT LOCATION AND QUANTITIES FOR APPROVAL.
2. PROVIDE OCCUPANCY SENSOR. AVOID MOUNTING SENSORS CLOSE TO AIR VENTS (PIR SENSORS SHOULD NOT BE WITHIN 4FT OF AIR VENT. ULTRASONIC SENSORS SHOULD NOT BE WITHIN 6FT OF AN AIR VENT), TYPICAL. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE MULTI-FUNCTIONAL DIMMING SWITCH.
4. EXISTING CIRCUITS IN PANEL "H2" TO BE REUSED.
5. INTERNAL BATTERY PROVIDED BY LUMINAIRE MANUFACTURER. ON LOSS OF POWER, LIGHTING TO BE 100% ON.



1 E2.05 — SECOND FLOOR PARTIAL PLAN - REMODEL - WEST - LIGHTING

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

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Revisions			
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2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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Project

TENANT IMPROVEMENTS

Sheet Title

SECOND FLOOR PARTIAL PLAN - REMODEL - WEST - LIGHTING

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale:	AS NOTED
Drawn By:	KL
Checked By:	YVZ
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **E2.05**

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GENERAL NOTE

1. CONNECT NEW LUMINAIRES TO EXISTING CIRCUITS.
2. EMERGENCY LIGHTING AND EXIT LIGHTS ARE TO BE CONNECTED TO GENERAL ROOM LIGHTING CIRCUIT. CIRCUIT ALL EMERGENCY LIGHTS/EXIT SIGNS AHEAD OF LOCAL SWITCHING.

NUMBERED NOTES

1. PROVIDE DAYLIGHT SENSOR. SYMBOL REPRESENTS ZONE TO BE CONTROLLED AND IS NOT IN THE EXACT LOCATION, NOR SHOWING THE EXACT QUANTITY OF SENSORS. CONTRACTOR SHALL SUBMIT FLOOR PLANS WITH EXACT LOCATION AND QUANTITIES FOR APPROVAL.
2. PROVIDE OCCUPANCY SENSOR. AVOID MOUNTING SENSORS CLOSE TO AIR VENTS (PIR SENSORS SHOULD NOT BE WITHIN 4FT OF AIR VENT. ULTRASONIC SENSORS SHOULD NOT BE WITHIN 6FT OF AN AIR VENT), TYPICAL. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE MULTI-FUNCTIONAL DIMMING SWITCH.
4. EXISTING CIRCUITS IN PANEL "H2" TO BE REUSED.
5. INTERNAL BATTERY PROVIDED BY LUMINAIRE MANUFACTURER. ON LOSS OF POWER, LIGHTING TO BE 100% ON.

1 E2.06 SECOND FLOOR PARTIAL PLAN - REMODEL - EAST - LIGHTING

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

Revisions			
Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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Project
TENANT IMPROVEMENTS

Sheet Title
SECOND FLOOR PARTIAL PLAN - REMODEL - EAST - LIGHTING

Client Project Number: N/A

M. NEILS ENGINEERING, INC.
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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Scale:	AS NOTED
Drawn By:	KL
Checked By:	YVZ
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **E2.06**

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GENERAL NOTE

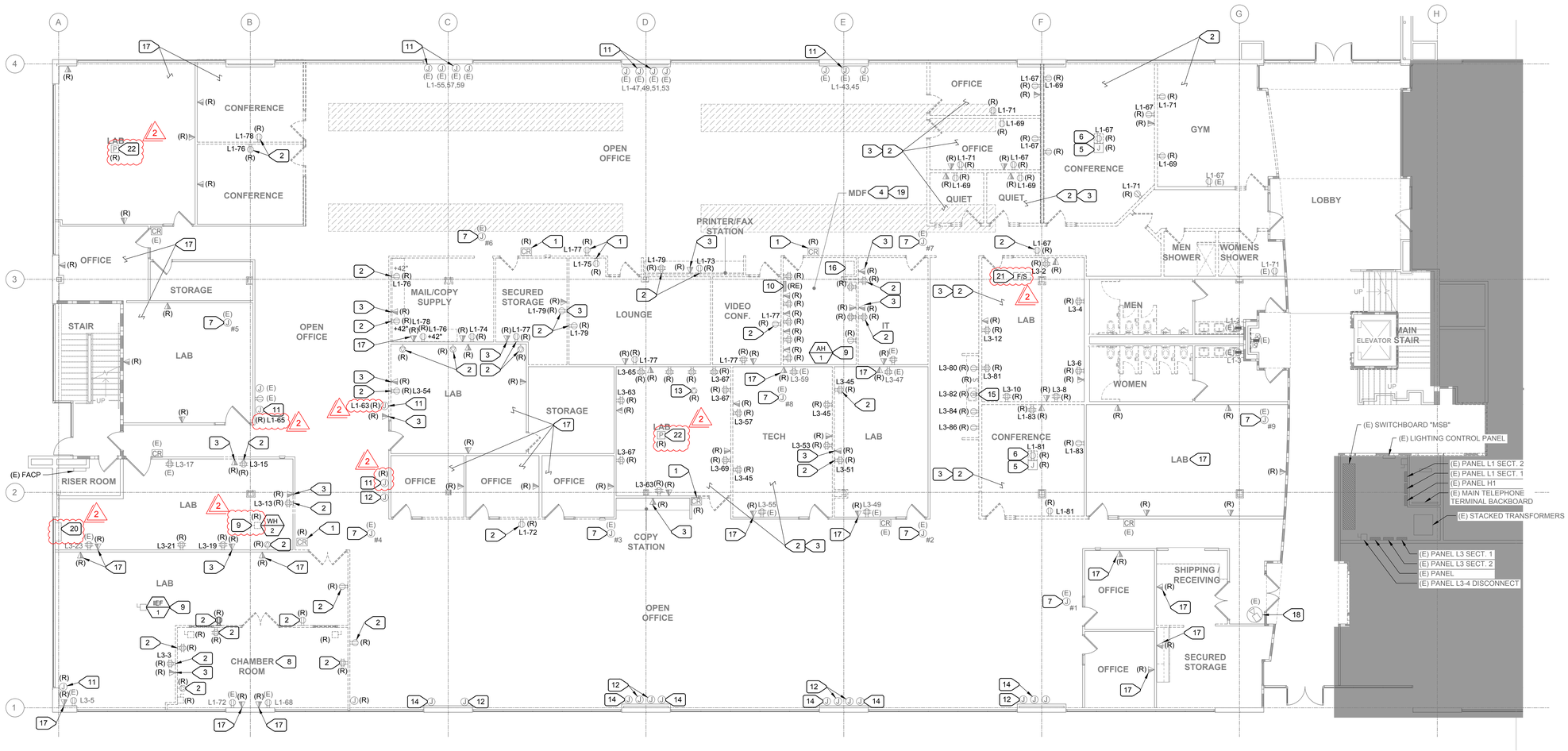
1. EXISTING DEVICES TO REMAIN ARE NOT SHOWN.
2. WHERE CIRCUIT NUMBERS ARE NOT SHOWN. CONTRACTOR SHALL VERIFY CIRCUIT NUMBERS SO THAT PANEL SCHEDULES CAN BE UPDATED.

EXISTING POWER JUNCTION BOX SCHEDULE (FROM AS-BUILT DRAWINGS)

1	PANEL L1 - CIRCUITS 40, 42; CIRCUITS 44, 46, 48; CIRCUITS 50, 52; CIRCUITS 54, 56, 58; CIRCUITS 60, 62 64
2	PANEL L1 - CIRCUITS 79, 81, 83; CIRCUITS 82, 84, 86; PANEL L3 - CIRCUITS 28, 30
3	PANEL L1 - CIRCUITS 66, 68, 70; CIRCUITS 61, 63, 65; PANEL L3 - CIRCUITS 44, 46, 48; CIRCUITS 50, 52, 54
4	PANEL L3 - CIRCUITS 1, 3, 5; CIRCUITS 7, 9, 11; CIRCUITS 13, 15, 17; CIRCUITS 19, 21, 23
5	PANEL L3 - CIRCUITS 25, 27, 29; CIRCUITS 31, 33, 35; CIRCUITS 63, 64, 66, 68; CIRCUITS 56, 58, 60, 62; PANEL L1 - 13
6	PANEL L1 - CIRCUITS 74, 76, 78; CIRCUITS 55, 57, 59; CIRCUITS 43, 45; CIRCUITS 47, 49; CIRCUITS 51 53
7	PANEL L1 - CIRCUITS 67, 69, 71; CIRCUITS 73, 75, 77; CIRCUITS 37, 39, 41; PANEL L3 - CIRCUITS 16, 26
8	PANEL L3 - CIRCUITS 55, 57, 59; CIRCUITS 63, 65, 67, 69; CIRCUITS 43, 45, 47; CIRCUITS 49, 51, 53
9	PANEL L3 - CIRCUITS 2,4, 6; CIRCUITS 8, 10, 12; CIRCUITS 14, 16, 18; CIRCUITS 20, 22, 24

NUMBERED NOTES

1. EXISTING CARD READER TO BE REMOVED. REMOVE CABLES BACK TO SOURCE.
2. DISCONNECT AND REMOVE EXISTING RECEPTACLE. REMOVE EXISTING CONDUCTORS AND CONDUIT TO LAST REMAINING DEVICE. ENSURE CIRCUIT CONTINUITY TO DOWNSTREAM DEVICES. TYPICAL.
3. DISCONNECT AND REMOVE EXISTING DATA OUTLET. REMOVE EXISTING CABLES AND CONDUIT BACK TO SOURCE. TYPICAL.
4. DISCONNECT AND REMOVE EXISTING RECEPTACLES, DATA OUTLETS, GROUND BUS BAR, DISCONNECT SWITCH AND UPS. REMOVE EXISTING CONDUCTORS, CABLES AND CONDUIT BACK TO SOURCE. RECEPTACLES ARE CIRCUITED TO PANEL "LUPS".
5. DISCONNECT AND REMOVE EXISTING DEVICE AND FLOOR BOX. REMOVE CABLES BACK TO SOURCE.
6. DISCONNECT AND REMOVE EXISTING FLOOR RECEPTACLE. REMOVE EXISTING CONDUCTORS BACK TO LAST REMAINING DEVICE.
7. EXISTING ABOVE CEILING JUNCTION BOX TO REMAIN. REFER TO SCHEDULE FOR EXISTING CIRCUITS. VERIFY LOCATION IN FIELD.
8. DISCONNECT AND REMOVE EXISTING DISCONNECT SWITCHES, CHAMBER CONTROL PANEL, BOOSTER TRANSFORMERS AND ALL ASSOCIATED EQUIPMENT. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.
9. DISCONNECT AND REMOVE ELECTRIC SERVICE TO MECHANICAL EQUIPMENT BEING REMOVED AS INDICATED BY MECHANICAL DEMOLITION PLANS. REMOVE DISCONNECT SWITCH AND REMOVE EXISTING CONDUCTORS AND CONDUIT COMPLETE TO SOURCE.
10. EXISTING PANEL "LUPS" TO BE REMOVED. DISCONNECT AND REMOVE EXISTING FEEDER BACK TO SOURCE.
11. EXISTING BOX WITH CONDUCTORS. REMOVE EXISTING CONDUCTORS BACK TO SOURCE OR TO RESPECTIVE J-BOX. IN J-BOX, TAPE AND TAG ALL CONDUCTORS. PROVIDE BLANK COVER PLATE.
12. PROVIDE BLANK COVER PLATES ON OPEN BOX THAT ARE NOT BEING REUSED. TYPICAL.
13. DISCONNECT AND REMOVE EXISTING TWISTLOCK RECEPTACLE. REMOVE EXISTING CONDUCTORS AND CONDUIT COMPLETE BACK TO SOURCE.
14. EXISTING BOX WITH CONDUCTORS TO REMAIN FOR FUTURE CONNECTION TO MODULAR FURNITURE. IF NOT BEING CONNECTED, CONDUCTORS MUST BE REMOVED AND BLANK COVER PLATE PROVIDED.
15. DISCONNECT EXISTING GARBAGE DISPOSAL. REMOVE EXISTING RECEPTACLE AND ASSOCIATED SWITCH. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.
16. DISCONNECT AND REMOVE EXISTING UPS. REMOVE EXISTING FEEDER BACK TO SOURCE. DISCONNECT FEEDER CONNECTED TO EXISTING PANEL LUPS.
17. DISCONNECT AND REMOVE EXISTING DATA OUTLET. REMOVE EXISTING CABLES BACK TO SOURCE. PROTECT EXISTING BOX AND CONDUIT STUB FOR REUSE. TYPICAL.
18. ABANDON EXISTING CAMERA IN PLACE.
19. DISCONNECT AND REMOVE EXISTING FIBER OPTIC CABLE FROM EXISTING MDF BACK TO SOURCE.
20. DISCONNECT AND REMOVE EXISTING BUCK/BOOST TRANSFORMER, DISCONNECT SWITCH AND WIRING GUTTER. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.
21. DISCONNECT 120V POWER TO EXISTING FIRE SMOKE DAMPER. REMOVE EXISTING CONDUCTORS TO LAST REMAINING DEVICE. COORDINATE WITH MECHANICAL.
22. DISCONNECT AND REMOVE EXISTING POWER POLE. REMOVE EXISTING CONDUCTORS AND ASSOCIATED CONDUIT BACK TO SOURCE.



1 E3.01 — FIRST FLOOR PARTIAL PLAN - DEMOLITION - WEST - ELECTRICAL

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

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Revisions

Delta	Date	Revisions	By
1	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

KEY PLAN

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08/30/2023

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Project

TENANT IMPROVEMENTS

Sheet Title

FIRST FLOOR PARTIAL PLAN - DEMOLITION - WEST - ELECTRICAL

M. NEILS ENGINEERING, INC.
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Tel: (916) 923-4400
PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale:	AS NOTED
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Checked By:	YVZ
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Sheet **E3.01**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GENERAL NOTES

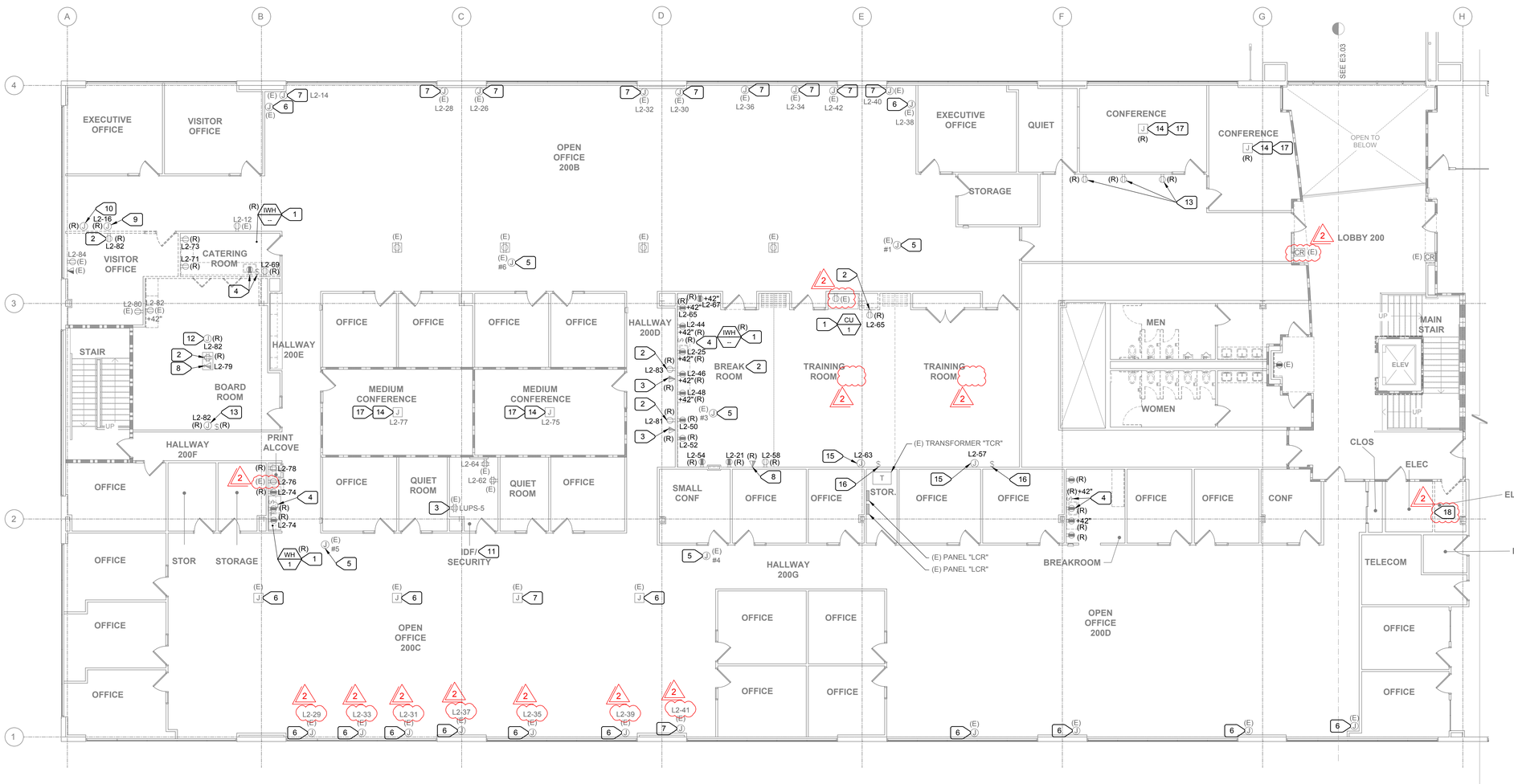
1. EXISTING DEVICES TO REMAIN ARE NOT SHOWN.
2. WHERE CIRCUIT NUMBERS ARE NOT SHOWN. CONTRACTOR SHALL VERIFY CIRCUIT NUMBERS SO THAT PANEL SCHEDULES CAN BE UPDATED.

EXISTING POWER JUNCTION BOX SCHEDULE (FROM AS-BUILT DRAWINGS)

1	PANEL L2 - CIRCUITS 34,36; CIRCUITS 38,40,42; CIRCUIT 23. PANEL L2 - CIRCUITS 43,45,47; CIRCUITS 49,51.
2	PANEL L2 - CIRCUITS 53,55,57; CIRCUITS 59,61,63. PANEL L2 - CIRCUITS 65,67; CIRCUITS 50,52,54,56.
3	PANEL L2 - CIRCUITS 18,20; CIRCUITS 44,46,48; CIRCUIT 81,83. PANEL L2 - CIRCUITS 75,77,79; CIRCUITS 25,19.
4	PANEL L2 - CIRCUITS 27,29; CIRCUITS 31,33,35,37; CIRCUIT 39,41. PANEL L2 - CIRCUITS 56,58,60.
5	PANEL L2 - CIRCUITS 80,82,84; CIRCUITS 62,64,66; CIRCUIT 68,70,72. PANEL L2 - CIRCUITS 74,76,78.
6	PANEL L2 - CIRCUITS 12,14,16; CIRCUITS 26,28; CIRCUIT 22,24. PANEL L2 - CIRCUITS 69,71,73; CIRCUITS 30,32.

NUMBERED NOTES

1. DISCONNECT AND REMOVE ELECTRIC SERVICE TO MECHANICAL EQUIPMENT BEING REMOVED AS INDICATED BY MECHANICAL DEMOLITION PLANS. REMOVE DISCONNECT SWITCH AND REMOVE EXISTING CONDUCTORS AND CONDUIT COMPLETE TO SOURCE.
2. DISCONNECT AND REMOVE EXISTING RECEPTACLE. REMOVE EXISTING CONDUCTORS AND CONDUIT TO LAST REMAINING DEVICE. ENSURE CIRCUIT CONTINUITY TO DOWNSTREAM DEVICES.
3. INTERCEPT EXISTING CONDUCTORS AND EXTEND TO NEW UPS PANEL IN NEW SERVER ROOM. REFER TO SHEET E3.04 FOR NEW LOCATION.
4. DISCONNECT EXISTING GARBAGE DISPOSAL. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.
5. EXISTING ABOVE CEILING JUNCTION BOX TO REMAIN. REFER TO SCHEDULE FOR EXISTING CIRCUITS. VERIFY LOCATION IN FIELD.
6. EXISTING BOX WITH CONDUCTORS TO REMAIN FOR FUTURE CONNECTION TO MODULAR FURNITURE. IF NOT BEING USED, CONDUCTORS MUST BE REMOVED BACK TO SOURCE AND BLANK COVER PROVIDED ON EXISTING BOX.
7. PROVIDE BLANK COVER PLATE ON OPEN BOX THAT IS NOT BEING REUSED.
8. DISCONNECT AND REMOVE EXISTING DATA OUTLET. REMOVE CABLES AND CONDUIT BACK TO SOURCE.
9. EXISTING BOX WITH CONDUCTORS. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO SOURCE.
10. EXISTING BOX WITH BLANK COVER PLATE. REMOVE BOX AND REMOVE CONDUIT BACK TO SOURCE. IF CABLING EXISTS, REMOVE BACK TO SOURCE.
11. EXISTING IDF AND SECURITY PANELS TO REMAIN. DISCONNECT AND REMOVE EXISTING FIBER OPTIC CABLE BACK TO SOURCE. 2
12. DISCONNECT AND REMOVE J-BOX FOR EXISTING PROJECTOR. REMOVE CONDUCTORS AND CONDUITS BACK TO SOURCE.
13. DISCONNECT AND REMOVE EXISTING UNDER COUNTER SURFACE MOUNTED RECEPTACLE. REMOVE EXISTING CONDUCTORS AND CONDUIT COMPLETE TO SOURCE.
14. DISCONNECT AND REMOVE DATA DEVICE. REMOVE CABLES BACK TO SOURCE. PROVIDE BLANK COVER ON EXISTING FLOOR BOX.
15. DISCONNECT AND REMOVE EXISTING POWER TO PROJECTOR AND PROJECTOR SCREEN. REMOVE EXISTING CONDUCTORS AND CABLES BACK TO SOURCE.
16. DISCONNECT AND REMOVE EXISTING SWITCH FOR PROJECTOR SCREEN. REMOVE CONDUCTORS BACK TO SOURCE.
17. DISCONNECT AND REMOVE EXISTING RECEPTACLES. REMOVE EXISTING CONDUCTORS BACK TO SOURCE.
18. VERIFY WITH PCOE I.T. DEPARTMENT WHETHER EQUIPMENT HAS TO BE RELOCATED PRIOR TO REMOVING ANY EQUIPMENT OF DEMOLISHING WALL. 2



1 E3.02 SECOND FLOOR PARTIAL PLAN - DEMOLITION - WEST - ELECTRICAL

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

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Revisions

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2	08-23-2023	ADDENDUM #2	YJV

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KEY PLAN

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08/30/2023

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Project

TENANT IMPROVEMENTS

Sheet Title

SECOND FLOOR PARTIAL PLAN - DEMOLITION - WEST - ELECTRICAL

Client Project Number: N/A

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **E3.02**

Sheet . of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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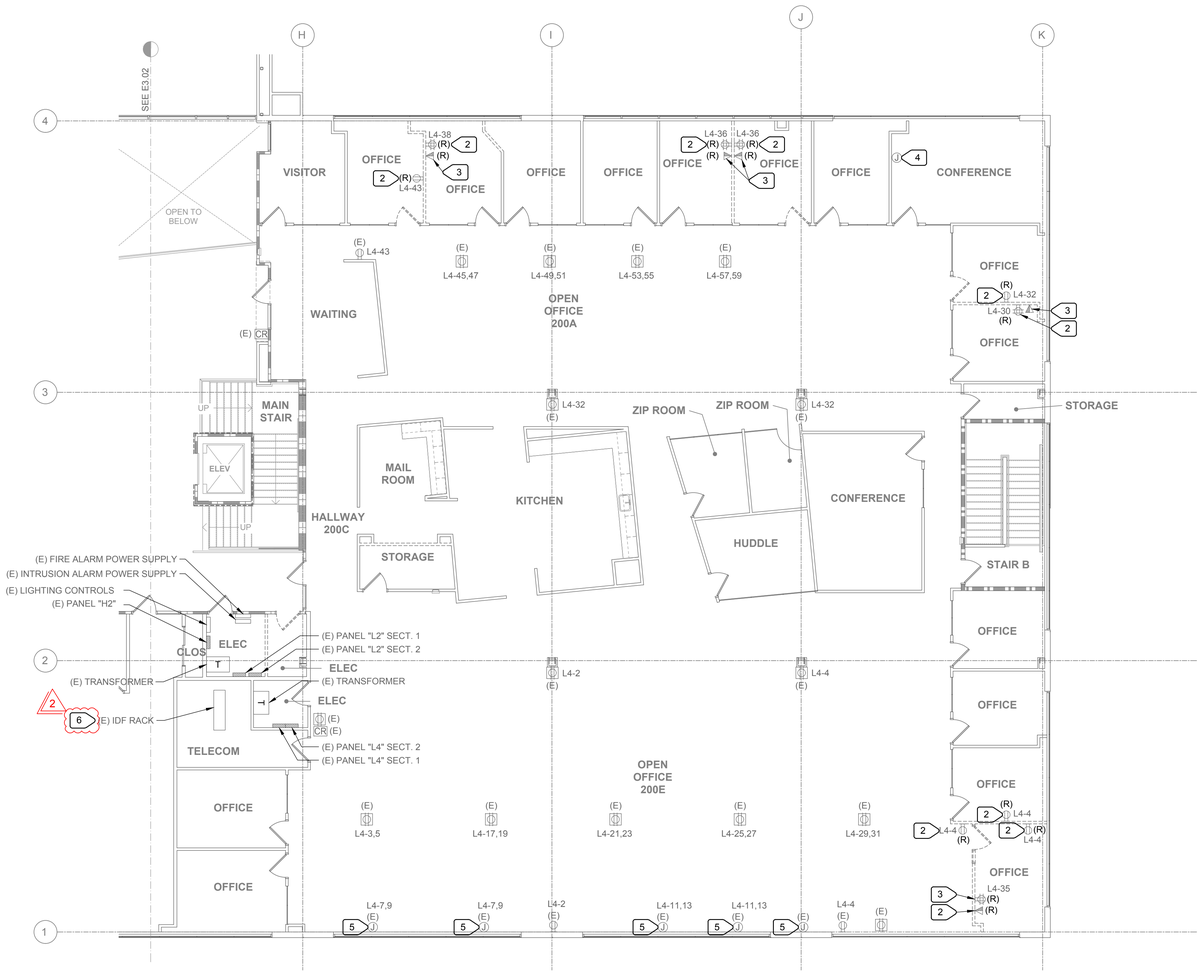
GENERAL NOTE

1. EXISTING DEVICES TO REMAIN ARE NOT SHOWN.
2. WHERE CIRCUIT NUMBERS ARE NOT SHOWN. CONTRACTOR SHALL VERIFY CIRCUIT NUMBERS SO THAT PANEL SCHEDULES CAN BE UPDATED.

NUMBERED NOTES

1. EXISTING CARD READER TO BE REMOVED. REMOVE EXISTING CABLES AND CONDUIT BACK TO SOURCE.
2. DISCONNECT AND REMOVE (E) RECEPTACLE. REMOVE EXISTING CONDUCTORS AND CONDUIT TO LAST REMAINING DEVICE. ENSURE CIRCUIT CONTINUITY TO DOWNSTREAM DEVICES. TYPICAL.
3. DISCONNECT AND REMOVE DATA OUTLET. REMOVE EXISTING CABLES AND CONDUIT BACK TO SOURCE. TYPICAL.
4. EXISTING BOX AT +46" WITHOUT FACEPLATE. PROVIDE NEW BLANK FACEPLATE.
5. EXISTING FURNITURE WHIP TO REMAIN.
6. EXISTING IDF TO REMAIN. DISCONNECT AND REMOVE FIBER OPTIC CABLE BACK TO SOURCE.



1 / E3.03 SECOND FLOOR PARTIAL PLAN - DEMOLITION - EAST - ELECTRICAL

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

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Revisions

Delta	Date	Revisions	By
1	08-23-2023	ADDENDUM #2	YJV

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08/30/2023

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Project

TENANT IMPROVEMENTS

Sheet Title

SECOND FLOOR PARTIAL PLAN - DEMOLITION - EAST - ELECTRICAL

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Scale: AS NOTED
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Sheet **E3.03**

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UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Aug 30, 2023 - 2:09pm, / kerlo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

GENERAL NOTE

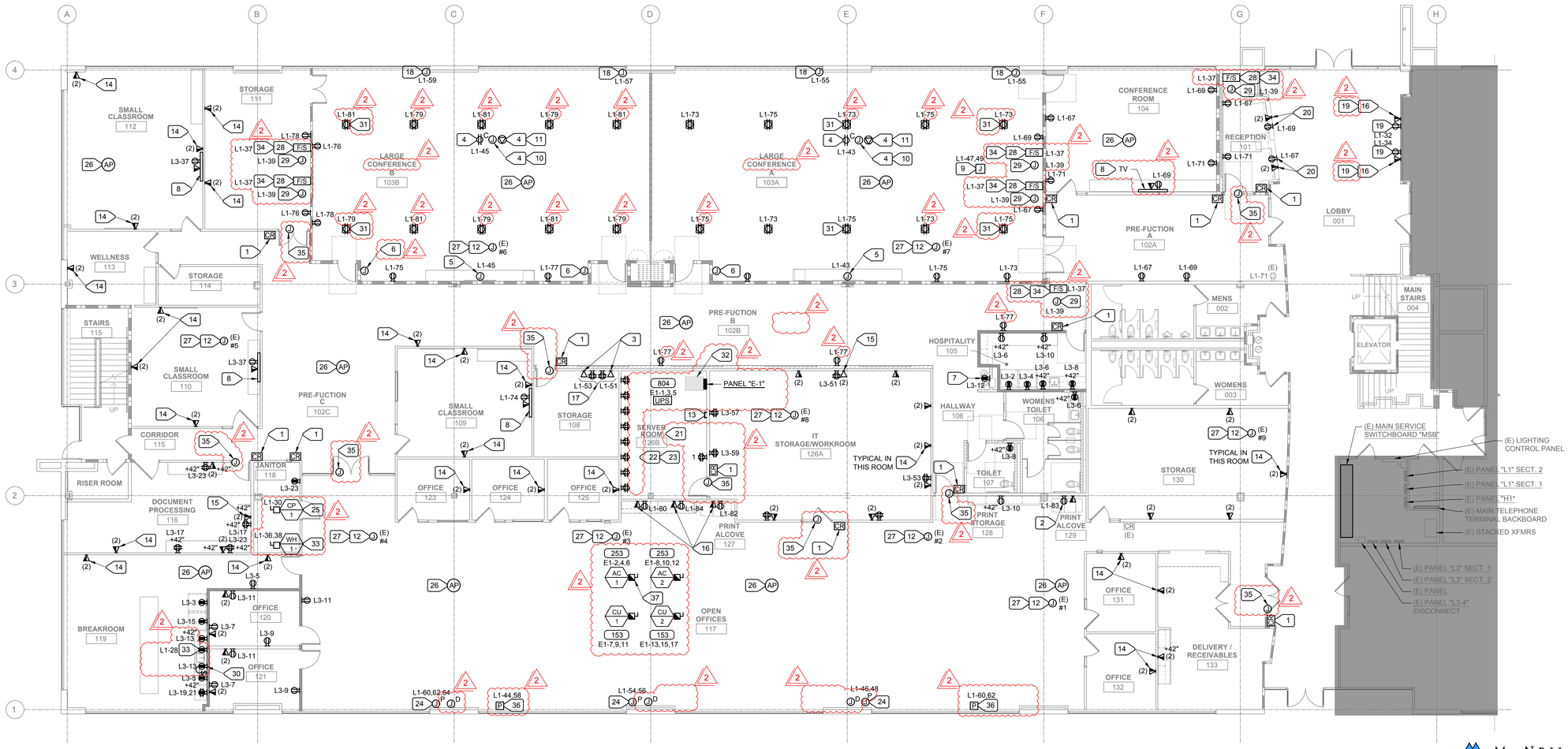
1. CEC 210.4 REQUIRES THAT ALL MULTI-WIRE BRANCH CIRCUITS THAT SHARE A NEUTRAL CONDUCTOR MUST HAVE A BREAKER HANDLE TIE SO THAT EACH CIRCUIT IS DISCONNECTED SIMULTANEOUSLY.

FEEDER SCHEDULE

153	3/4" C., 3 #12, AND 1 #12 GND.
253	3/4" C., 3 #10, AND 1 #10 GND.
804	1-1/4" C., 4 #3, AND 1 #6 GND.

NUMBERED NOTES

1. LOCATE 4 SQUARE BOX FOR CARD READER. STUB 1/2" C. TO ABOVE CEILING SPACE. PROVIDE PROTECTIVE BUSHING ON CONDUIT STUB.
2. PROVIDE 1/2" C. WITH (2) CAT6 CABLES TO MDF.
3. LOCATE FOR A/V RACK.
4. LOCATE FOR O.F.C.I. PROJECTOR.
5. LOCATE FOR O.F.C.I. PROJECTION SCREEN. VERIFY LOCATION OF CONTROL SWITCH WITH ARCHITECT.
6. LOCATE 4-GANG BOX FOR A/V CONTROLS. PROVIDE (2) 1-1/2" C. TO A/V RACK LOCATION FOR A/V CABLING.
7. LOCATE FOR ELECTRIC DRINKING FOUNTAIN.
8. PROVIDE CHIEF PAC525 IN WALL DEVICE BOX WITH DESIGNATED DATA AND POWER OUTLETS. PROVIDE 3/4" POWER CONDUIT. PROVIDE 1-1/4" DATA CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE AND (1) CAT6 DATA CABLE TO MDF. PROVIDE PROTECTIVE BUSHING ON CONDUIT STUB. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
9. PROVIDE (2) 2" CONDUITS TO AV RACK LOCATION FOR AV CABLING. PROVIDE 2" POWER CONDUIT TO PANEL "L1". PROVIDE (12) OSP RATED CAT6 CABLES TO AV RACK FOR MICROPHONES.
10. PROVIDE 1-1/2" CONDUIT TO AV RACK FOR AV CABLES.
11. PROVIDE (1) CAT6 DATA CABLE BETWEEN PROJECTOR AND DATA OUTLET AT AV RACK. RUN DATA CABLE IN SAME CONDUIT AS AV CABLING.
12. EXISTING POWER JUNCTION BOX ABOVE CEILING. REFER TO SHEET E2.04 FOR CIRCUITS.
13. PROVIDE GROUND BUS BAR WITH STANDOFF INSULATORS, CHATSWORTH #40153-020 TMGB PATTERN, 4"W X 1/4"D X 20"L, SEE GROUND BUS DETAIL ON SHEET E5.01.
14. PROVIDE (2) DATA CAT6 CABLES TO MDF THROUGH EXISTING PATHWAY. PROVIDE (2) DATA JACKS AND NEW FACEPLATE AT EXISTING OUTLET BOX.
15. PROVIDE (2) CAT6 DATA CABLES TO MDF. TYPICAL UNLESS NOTED OTHERWISE .
16. PROVIDE (1) CAT6 DATA CABLE TO MDF.
17. LOCATE FOR AV RACK. VERIFY EXACT REQUIREMENTS WITH PCOE I.T. DEPARTMENT PRIOR TO ROUGH-IN. A/V RACK AND ASSOCIATED COMPONENETS ARE O.F.C.I.
18. LOCATE FOR AND CONNECT MOTORIZED SHADES. VERIFY LOCATION OF CONTROLS WITH ARCHITECT.
19. LOCATE FOR DIGITAL DISPLAYS. VERIFY EXACT HEIGHT WITH ARCHITECT.
20. MOUNT UNDER COUNTER. VERIFY EXACT LOCATION WITH ARCHITECT.
21. PROVIDE (4) 8-STRAND MM FIBER OPTIC CABLES IN INNERDUCT SIZED PER 40% FILL PER CEC FROM SERVER ROOM BACK TO EXISTING MPOE AT (E) MAIN TELEPHONE TERMINAL BACKBOARD. RUN IN ONE CONTINUOUS RUN WITHOUT SPLICES. ALLOW FOR TEN FOOT SERVICE LOOP. COORDINATE WITH PCOE I.T. DEPARTMENT AND SMART ROW INSTALLATION..
22. RECEPTACLES IN SERVER ROOM WILL BE FED FROM SMARTROW SYSTEM PROVIDED BY OWNER.
23. PROVIDE FLOOR TO CEILING 3/4" FIRE RETARDANT PLYWOOD BACKBOARD ON WEST WALL OF SERVER ROOM. PROVIDE (1) 4" CONDUIT ONLY AND (1) 2" CONDUIT ONLY TO ABOVE CEILING SPACE. LOCATE GROUND BUS CALLED FOR IN NOTE 13 ON PLYWOOD BACKBOARD.
24. PROVIDE POWER AND DATA MODULAR FURNITURE CONNECTIONS WITHIN 12" OF MODULAR FURNITURE. PROVIDE RECESSED BACK BOXES, FOR POWER AND DATA, WITH COVER PLATES.
    - (J) D - DATA - PROVIDE COVER PLATES WITH 1-1/4" DIAMETER OPENING, FLEX CONDUIT AND GROMMET FOR DATA CABLING. PROVIDE (6) CAT6 CABLES TO MDF.
    - (J) P - POWER - PROVIDE COVER PLATES WITH 3/4" DIAMETER OPENING WITH 90 DEGREE SHORT ELBOW AND WHIP FOR POWER. PROVIDE CONNECTORS FOR THE WHIPS AND TERMINATE POWER WHIP INTO CONNECTORS AT MODULAR FURNITURE. PROVIDE A MINIMUM OF ONE UNCONTROLLED AND ONE CONTROLLED DUPLEX RECEPTACLES PER WORK STATION.
25. PROVIDE 3/4" CONDUIT WITH 2 #10, 1 #10 GND. LOCATE DISCONNECT SWITCH UNDER SINK ADJACENT TO WATER HEATER.
26. PROVIDE (2) CAT6 CABLES TO MDF. VERIFY LOCATION WITH PCOE I.T. DEPARTMENT.
27. TAPE AND TAG EXISTING CONDUCTORS LEFT AS SPARE IN EXISTING JUNCTION AND AT EXISTING PANEL.
28. LOCATE FOR AND CONNECT POWER FOR FIRE SMOKE DAMPER. COORDINATE WITH MECHANICAL.
29. LOCATE FOR AND CONNECT POWER FOR DUCT SMOKE DETECTORS. COORDINATE WITH MECHANICAL AND FIRE ALARM CONTRACTOR.
30. LOCATE FOR GARBAGE DISPOSAL. MOUNT SWITCH ABOVE COUNTER AT +42".
31. RUN CONDUIT IN TRENCH SHOWN ON ARCHITECTURAL DRAWINGS. RUN CONDUIT TO NEW WALL AND RISE TO ABOVE CEILING SPACE. EXTEND TO EXISTING ABOVE CEILING JUNCTION OR TO PANEL "L1".
32. MAINTAIN REQUIRED CEC WORKING CLEARANCE IN FRONT OF PANEL "E-1".
33. LOCATE FOR DISHWASHER. PROVIDE 1"C., 2 #8, 1 #10 GND.
34. CONNECT VIA FIRE ALARM SYSTEM SUCH THAT WHEN FIRE SMOKE DAMPER CLOSES ASSOCIATED HVAC UNIT SHUTS DOWN. COORDINATE WITH MECHANICAL AND FIRE ALARM CONTRACTOR.
35. LOCATE FOR ELECTRIC STRIKE. PROVIDE 1/2"C. WITH 2 #12, 1 #12 GND. CIRCUIT TO PANEL L3 CIRCUIT 73 FOR ELECTRIC STRIKE.
36. PROVIDE 13.4"W X 3.8"D ALUMINUM POWER POLE WITH DIVIDER FOR (2) COMPARTMENTS: (1) POWER AND (1) FOR DATA CABLING, MANUFACTURED BY LEGRAND VISTA ARCHITECTURAL COLUMN #VF-L-77-2345-FF-ZZ-P. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE. ENSURE INTERIOR DATA COMPARTMENT SIZE, AT A MINIMUM, IS EQUIVALENT TO 1-1/4" CONDUIT. PROVIDE (6) CAT6 DATA CABLES TO MDF.
37. PROVIDE NEMA 3R MOTOR RATED, FUSED DISCONNECT SWITCH WITH OVERLOAD PROTECTION WITH LOCKABLE COVER. PROVIDE FUSES SIZED TO EQUIPMENT NAMEPLATE REQUIREMENT. TYPICAL. VERIFY LOCATION OF UNITS WITH SMART ROW INSTALLER.



1 / E3.04 FIRST FLOOR PARTIAL PLAN - REMODEL - WEST - ELECTRICAL

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

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PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

KEY PLAN

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REGISTERED PROFESSIONAL ENGINEER YVES J. VAN ZANTEN No. E15483 Exp. 6/30/25 ELECTRICAL STATE OF CALIFORNIA

08/30/2023

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HY Architects Project number: 6013

Facility

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Project

TENANT IMPROVEMENTS

Sheet Title

FIRST FLOOR PARTIAL PLAN - REMODEL - WEST - ELECTRICAL

Client Project Number: N/A

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Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400

PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
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Sheet

E3.04

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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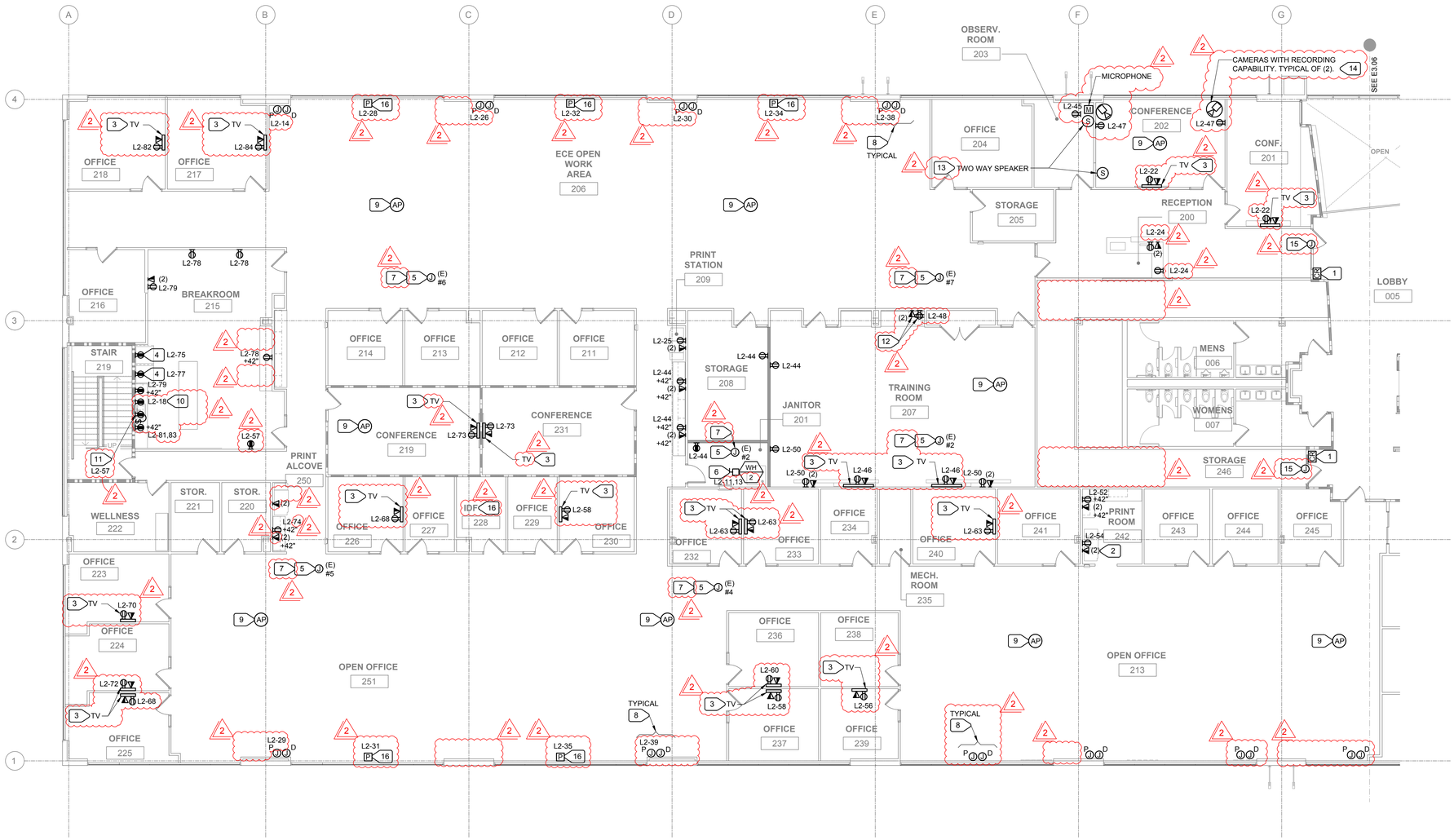
GENERAL NOTES

1. CEC 210.4 REQUIRES THAT ALL MULTI-WIRE BRANCH CIRCUITS THAT SHARE A NEUTRAL CONDUCTOR MUST HAVE A BREAKER HANDLE TIE SO THAT EACH CIRCUIT IS DISCONNECTED SIMULTANEOUSLY.
2. WHERE CIRCUIT NUMBERS ARE NOT SHOWN, CONTRACTOR TO VERIFY.
3. REUSE EXISTING BOXES AND PATHWAY WHERE POSSIBLE.

NUMBERED NOTES

1. LOCATE SQUARE BOX FOR CARD READER, STUB 1/2" C. TO ABOVE CEILING SPACE. PROVIDE PROTECTIVE BUSHING ON CONDUIT STUB.
2. PROVIDE (2) CAT6 CABLES TO IDF IN ROOM 228. TYPICAL.
3. PROVIDE CHIEF PAC525 IN WALL DEVICE BOX WITH DESIGNATED AV AND POWER OUTLETS. PROVIDE 3/4" POWER CONDUIT. PROVIDE 1-1/4" DATA CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE AND (1) CAT6 DATA CABLE TO IDF. PROVIDE PROTECTIVE BUSHING ON CONDUIT STUB. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
4. LOCATE FOR REFRIGERATOR.
5. EXISTING POWER JUNCTION BOX ABOVE CEILING. REFER TO SHEET E3.02 FOR CIRCUITS.
6. PROVIDE 1" CONDUIT WITH 2 #8, 1 #10.
7. TAPE AND TAG EXISTING CONDUCTORS LEFT AS SPARE IN JUNCTION BOX AND AT PANEL.
8. PROVIDE POWER AND DATA MODULAR FURNITURE CONNECTIONS WITHIN 12" OF MODULAR FURNITURE. PROVIDE RECESSED BACK BOXES, FOR POWER AND DATA, WITH COVER PLATES.
   - J D DATA - PROVIDE COVER PLATES WITH 1-1/4" DIAMETER OPENING, FLEX CONDUIT AND GROMMET FOR DATA CABLING. PROVIDE (6) CAT6 CABLES TO MDF.
   - J P POWER - PROVIDE COVER PLATES WITH 3/4" DIAMETER OPENING WITH 90 DEGREE SHORT ELBOW AND WHIP FOR POWER. PROVIDE CONNECTORS FOR THE WHIPS AND TERMINATE POWER WHIP INTO CONNECTORS AT MODULAR FURNITURE. PROVIDE A MINIMUM OF ONE UNCONTROLLED AND ONE CONTROLLED DUPLEX RECEPTACLES PER WORK STATION.
9. PROVIDE (2) CAT6 CABLES TO IDF IN ROOM 228. VERIFY LOCATION WITH PCOE I.T. DEPARTMENT.
10. PROVIDE 3/4" CONDUIT WITH 2 #10, 1 #10. LOCATE FOR DISHWASHER.
11. LOCATE FOR GARBAGE DISPOSAL. MOUNT SWITCH ABOVE COUNTER AT +42".
12. LOCATE UNDER COUNTER FOR AV RACK.
13. PROVIDE 1/2"C. BETWEEN O.F.C.I. MICROPHONE AND TWO-WAY SPEAKERS FOR REQUIRED CABLES. VERIFY EXACT REQUIREMENTS WITH PCOE I.T. PRIOR TO ROUGH-IN. LOCATE RECEPTACLE AT HEIGHT REQUIRED FOR TWO-WAY SYSTEM.
14. PROVIDE 1/2"C. WITH (2) CAT6 CABLES TO IDF. VERIFY REQUIREMENTS WITH PCOE I.T. DEPARTMENT. PROVIDE RECEPTACLE AT HEIGHT OF CAMERA IF REQUIRED BY EQUIPMENT PROVIDED.
15. PROVIDE 13.4"W X 3.8"D ALUMINUM POWER POLE WITH DIVIDER FOR (2) COMPARTMENTS: (1) POWER AND (1) FOR DATA CABLING, MANUFACTURED BY LEGRAND VISTA ARCHITECTURAL COLUMN #VF-L-77-2345-FF-ZZ-P. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE. ENSURE INTERIOR DATA COMPARTMENT SIZE, AT A MINIMUM, IS EQUIVALENT TO 1-1/4" CONDUIT. PROVIDE (6) CAT6 DATA CABLES TO MDF.
16. LOCATE FOR ELECTRIC STRIKE. PROVIDE 1/2"C. WITH 2 #12, 1 #12 GND. CIRCUIT TO PANEL L3 CIRCUIT 73.FOR ELECTRIC STRIKE.
16. PROVIDE (4) 8-STRAND MM FIBER OPTIC CABLE FROM IDF TO SERVER ROOM 126B. CABLE SHALL BE RUN IN INNERDUCT SIZED FOR 40% FILL PER CEC. FIBER OPTIC CABLE SHALL RUN CONTINUOUSLY WITHOUT SPLICES. ALLOW FOR 10 FOOT SERVICE LOOP.



1 / E3.05 SECOND FLOOR PARTIAL PLAN - REMODEL - WEST - ELECTRICAL

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

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AGENCY APPROVAL

KEY PLAN

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08/30/2023

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HY Architects Project number: 6013

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Project

TENANT IMPROVEMENTS

Sheet Title

SECOND FLOOR PARTIAL PLAN - REMODEL - WEST - ELECTRICAL

Client Project Number: N/A

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **E3.05**

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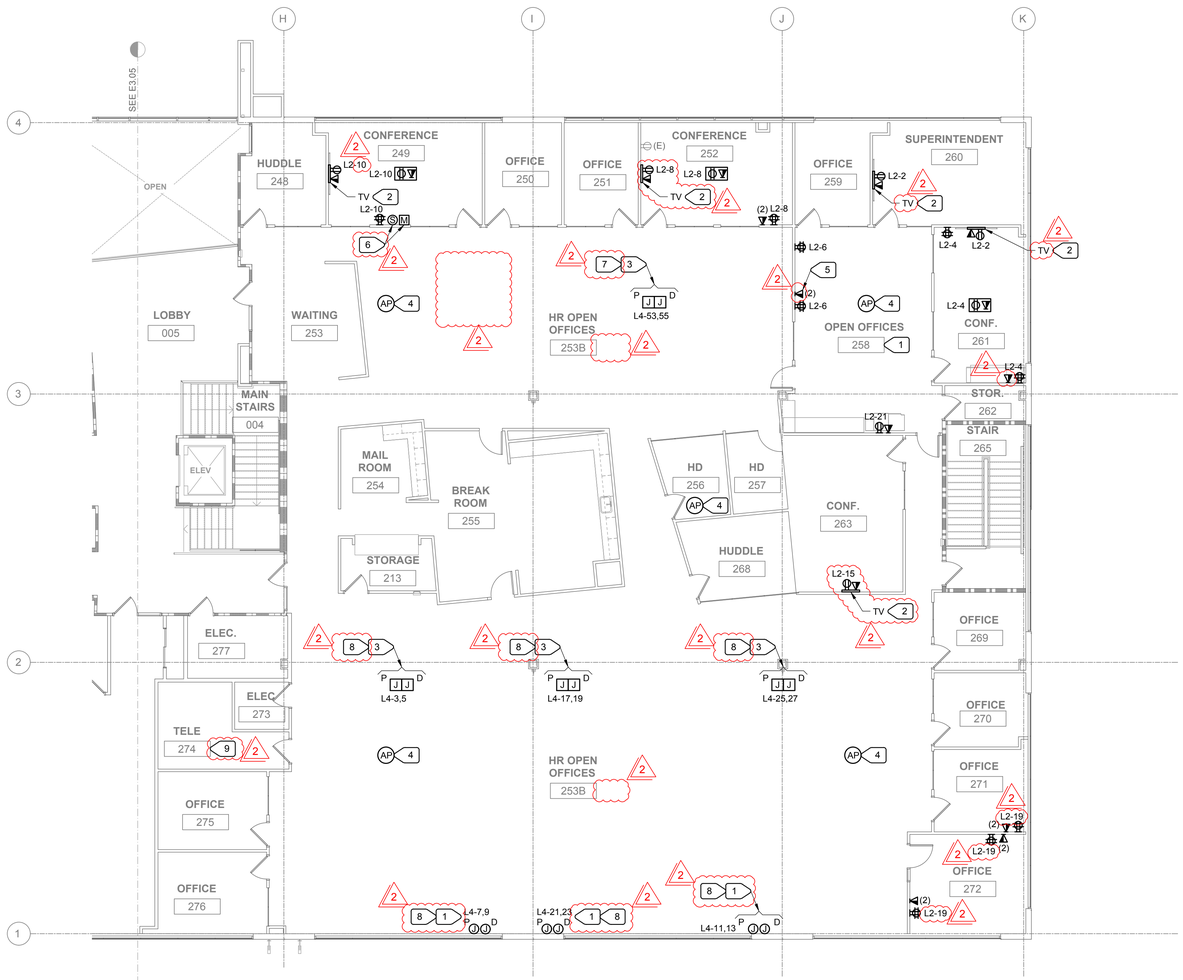
GENERAL NOTE

1. CEC 210.4 REQUIRES THAT ALL MULTI-WIRE BRANCH CIRCUITS THAT SHARE A NEUTRAL CONDUCTOR MUST HAVE A BREAKER HANDLE TIE SO THAT EACH CIRCUIT IS DISCONNECTED SIMULTANEOUSLY.

NUMBERED NOTES

1. PROVIDE POWER AND DATA MODULAR FURNITURE CONNECTIONS WITHIN 12" OF MODULAR FURNITURE. PROVIDE RECESSED BACK BOXES, FOR POWER AND DATA, WITH COVER PLATES.
   - (J) D DATA - PROVIDE COVER PLATES WITH 1-1/4" DIAMETER OPENING, FLEX CONDUIT AND GROMMET FOR DATA CABLING.
   - (J) P POWER - PROVIDE COVER PLATES WITH 3/4" DIAMETER OPENING WITH 90 DEGREE SHORT ELBOW AND WHIP FOR POWER. PROVIDE CONNECTORS FOR THE WHIPS AND TERMINATE POWER WHIP INTO CONNECTORS AT MODULAR FURNITURE. PROVIDE A MINIMUM OF ONE UNCONTROLLED AND ONE CONTROLLED DUPLEX RECEPTACLE PER WORK STATION.
2. PROVIDE CHIEF PAC525 IN WALL DEVICE BOX WITH DESIGNATED AV, DATA AND POWER OUTLETS. PROVIDE 3/4" POWER CONDUIT. PROVIDE 1-1/4" DATA CONDUIT. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
3. SIMILAR TO NUMBERED NOTE 1 BUT REUSE EXISTING FLOOR BOXES. TYPICAL.
4. PROVIDE (2) CAT6 DATA CABLES TO IDF IN ROOM 274. VERIFY EXACT LOCATION WITH PCOE I.T. DEPARTMENT.
5. PROVIDE (2) CAT6 DATA CABLES TO IDF IN ROOM 274. STUB 3/4" CONDUIT TO ABOVE CEILING SPACE. PROVIDE PROTECTIVE BUSHING ON CONDUIT STUB. TYPICAL.
6. O.F.C.I. TELECONFERENCING SPEAKER AND MICROPHONE SYSTEM. VERIFY REQUIREMENTS WITH OWNER.
7. PROVIDE (10) CAT6 DATA CABLES BACK TO IDF IN ROOM 274.
8. PROVIDE (4) CAT6 DATA CABLES BACK TO IDF IN ROOM 274.
9. PROVIDE (4) 8-STRAND MM FIBER OPTIC CABLE FROM IDF TO SERVER ROOM 126B. CABLE SHALL BE RUN IN INNERDUCT SIZED FOR 40% FILL PER CEC. FIBER OPTIC CABLE SHALL RUN CONTINUOUSLY WITHOUT SPLICES. ALLOW FOR 10 FOOT SERVICE LOOP.



1 / E3.06 SECOND FLOOR PARTIAL PLAN - REMODEL - EAST - ELECTRICAL

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

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Aug 30, 2023 – 2:01pm, / kerlo

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Revisions

Delta	Date	Revisions	By
1	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

KEY PLAN

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REGISTERED PROFESSIONAL ENGINEER – YVETTE J. VAN ZANTEN – No. E15483 Exp. 6/30/25 – ELECTRICAL – STATE OF CALIFORNIA

08/30/2023

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HY Architects Project number: 6013

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Project

TENANT IMPROVEMENTS

Sheet Title

SECOND FLOOR PARTIAL PLAN - REMODEL - EAST - ELECTRICAL

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PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

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Issue Date: July 21, 2023
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Sheet **E3.06**

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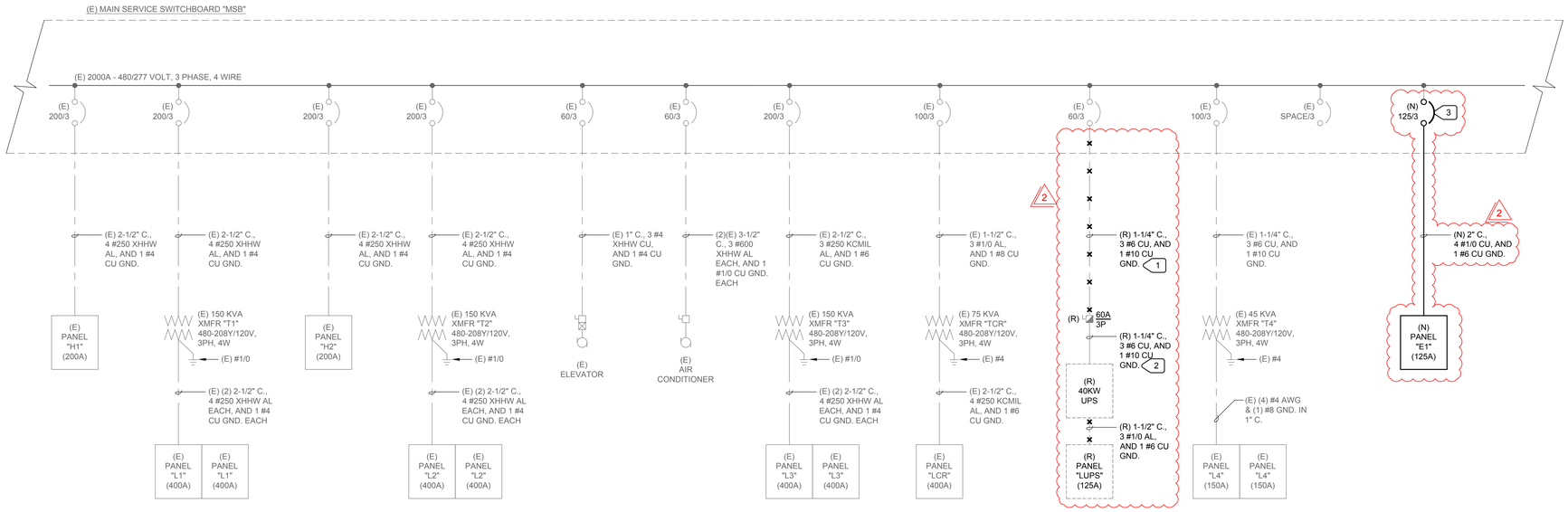
NUMBERED NOTES

2

1. REMOVE EXISTING FEEDER BACK TO EXISTING SWITCHBOARD.
2. REMOVE EXISTING CONDUCTORS BETWEEN EXISTING UPS AND EXISTING PANEL LUPS.
3. PROVIDE NEW 125/3 CIRCUIT BREAKER IN EXISTING SPACES. PROVIDE ALL HARDWARE NECESSARY FOR A COMPLETE CLOSED INSTALLATION. NEW CIRCUIT BREAKER TO MATCH EXISTING TYPE AND A.I.C. RATING.



1 PARTIAL ONE LINE POWER DIAGRAM

E4.01

NO SCALE

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Aug 30, 2023 – 2:01pm, / kerlo

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1	08-23-2023	ADDENDUM #2	YJV

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08/30/2023

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Project
TENANT IMPROVEMENTS

Sheet Title
PARTIAL ONE-LINE DIAGRAM

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PROJECT #: 23045.21
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Sheet **E4.01**

Sheet 1 of

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EXISTING PANEL "L1" SECTION 1 SCHEDULE

POWER SOURCE: MAIN SWITCHBOARD "MSB" VIA XFMR "T1" | LOCATION: ELECTRICAL ROOM 1ST FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MAIN BKR: 400A | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
LIGHTING LOBBY	0.6	20/1	1	A	2	20/1	0.4	RECEPTS ELEC ROOM
RECEPTS BATHROOM	0.4	20/1	3	B	4	20/1	0.5	LIGHTING CONTROL PANEL
RECEPTS LOBBY	0.5	20/1	5	C	6	20/1	0.5	IRRIGATION CONTROLLER
RECEPTS LOBBY	0.5	20/1	7	A	8	20/1	0.5	FIRE RISER
ELEVATOR PIT	0.2	20/1	9	B	10	20/1	0.5	FIRE ALARM CTRL PANEL
ELEVATOR PIT	0.2	20/1	11	C	12	20/1 [2]	1.0	**(N) LOBBY CHANDELIER**
LIGHTING ELEVATOR	0.2	20/1	13	A	14	20/1		SPARE
ELEVATOR EQUIPMENT	0.2	20/1	15	B	16	20/1		SPARE
SUMP PUMP	1.2	20/1	17	C	18	20/1		SPARE
RECEPTS EXTERIOR	0.4	20/1	19	A	20	20/1		SPARE
RECEPTS EXTERIOR	0.4	20/1	21	B	22	20/1		SPARE
RECEPTS BLDG SIGNAGE	1.2	20/1	23	C	24	20/1		SPARE
FIRE SMOKE DAMPERS	0.5	20/1	25	A	26	20/1		SPARE
FIRE SMOKE DAMPERS	0.5	20/1	27	B	28	20/1 [2]	1.0	**(N) DISHWASHER**
VAV-101	1.0	20/1	29	C	30	20/1 [2]	0.1	**(N) CP-1**
VAV-102	1.0	20/1	31	A	32	20/1 [2]	1.1	**(N) DIGITAL DISPLAY**
DRINKING FOUNTAIN	0.5	20/1	33	B	34	20/1 [2]	1.1	**(N) DIGITAL DISPLAY**
RECEPT WP	0.2	20/1	35	C	36	(N)40/2	3.0	**(N) WH-1**
(N) FIRE SMOKE DAMPERS	**0.5**	20/1 [2]	37	A	38		3.0	
(N) DUCT DETECTORS	**0.5**	20/1 [2]	39	B	40	20/1 [2]	1.1	**(N) RCPT-DEL/RECEIV.**
SPARE		20/1 [2][3]	41	C	42	20/1 [2]	1.1	**(N) RCPT-DEL/RECEIV.**

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS THAT SHARE A NEUTRAL CONDUCTOR TO MEET CEC 210.4.
[3] DISCONNECT EXISTING CONDUCTORS FROM CIRCUIT BREAKERS LEFT AS SPARE. TAPE AND TAG EXISTING SPARE CONDUCTORS.
[4] CONNECTED LOAD INCLUDES LOAD FROM PANEL "L1" SECTION 2.

CONNECTED LOAD [4]
PHASE A= 20.8 kVA
PHASE B= 15.4 kVA
PHASE C= 18.5 kVA
TOTAL = 54.7 kVA
TOTAL = 151.9 Amperes

EXISTING PANEL "L2" SECTION 1 SCHEDULE

POWER SOURCE: MAIN SWITCHBOARD "MSB" VIA XFMR "T2" | LOCATION: ELECTRICAL ROOM 2ND FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MAIN BKR: 400A | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
RCPTS BATHROOM	0.4	20/1	1	A	2	**(N) 20/1 [2]**	**1.4**	**(N) TV - RM 260, 261**
RCPTS LOBBY	0.5	20/1	3	B	4	**(N) 20/1 [2]**	**0.7**	**(N) RCPT - RM 261**
RCPTS ELECTRIC RM	0.4	20/1	5	C	6	**(N) 20/1 [2]**	**0.7**	**(N) RCPT - RM 258**
RCPT ROOF	0.2	20/1	7	A	8	**(N) 20/1 [2]**	**1.4**	**(N) RCPT - RM 252**
DRINKING FOUNTAIN	0.5	20/1	9	B	10	**(N) 20/1 [2]**	**1.4**	**(N) RCPT - RM 249**
(N) WATER HEATER WH-2	**3.0**	**(N) 40/2**	11	C	12	20/1 [2]	1.1	OPEN OFFICE **206** FURN
(N) TV - RM 263	0.7	**(N) 20/1**	15	B	16	20/1 [2]	0.4	OPEN OFFICE **206** FURN
SPACE		PFB	17	C	18	**(N) 20/1 [2]**	**1.0**	**(N) DISHWASHER**
(N) RCPT-RM 271, RM 272	**1.1**	**(N) 20/1 [2]**	19	A	20	**(N) 20/1 [2]**		**SPARE**
(N) COPIER - RM 258	**1.2**	20/1 [2]	21	B	22	**(N) 20/1**	1.4	**(N) TV - RM 201, RM 202**
SPARE	1.2	20/1 [3]	23	C	24	**(N) 20/1**		**(N) RCPT-RM 200**
(N) COPIER-RM 209	**1.2**	20/1 [2]	25	A	26	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	27	B	28	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	29	C	30	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	31	A	32	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	33	B	34	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	35	C	36	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	37	A	38	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	39	B	40	20/1 [2]	1.1	OPEN OFFICE **206** FURN
OPEN OFFICE **251** FURN	1.1	20/1 [2]	41	C	42	20/1 [2]	1.1	OPEN OFFICE **206** FURN

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS THAT SHARE A NEUTRAL CONDUCTOR TO MEET CEC 210.4.
[3] DISCONNECT EXISTING CONDUCTORS FROM CIRCUIT BREAKERS LEFT AS SPARE. TAPE AND TAG EXISTING SPARE CONDUCTORS.
[4] **CONNECTED LOAD INCLUDES LOAD FROM PANEL "L2" SECTION 2.**

CONNECTED LOAD [4]
PHASE A= 25.5 kVA
PHASE B= 20.1 kVA
PHASE C= 26.9 kVA
TOTAL = 72.5 kVA
TOTAL = 201.4 Amperes

EXISTING PANEL "L3" SECTION 1 SCHEDULE

POWER SOURCE: MAIN SWITCHBOARD "MSB" VIA XFMR "T3" | LOCATION: ELECTRICAL ROOM 1ST FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MAIN BKR: 400A | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
(N) RCPTS-BREAKROOM	0.4	20/1	1	A	2	20/1	**1.0**	**(N)REFRIGERATOR-RM 105**
(N) REFRIGERATOR	**1.5**	20/1	3	B	4	20/1	**1.0**	**(N)REFRIGERATOR-RM 105**
(N) RCPTS- BREAKROOM	**0.5**	20/1	5	C	6	20/1	1.0	**(N) RCPT-RM 105, 106**
(N) RCPTS-BREAKROOM	**0.7**	20/1	7	A	8	20/1	1.0	**(N) RCPT-RM 105, 107**
(N) RCPTS-BREAKROOM	**0.5**	20/1	9	B	10	20/1	1.0	**(N) RCPT-RM 105, 128**
(N) RCPTS-BREAKROOM	**0.7**	20/1	11	C	12	20/1	1.0	**(N) DRINKING FOUNTAIN**
(N) RCPT-COFFEE MAKER	**1.0**	20/1	13	A	14	20/1	1.0	RCPTS - **ECE STORAGE**
(N) REFRIGERATOR	**1.5**	20/1	15	B	16	20/1	1.0	RCPTS - **ECE STORAGE**
(N) RCPTS DOCUMENT PRO	**1.1**	20/1	17	C	18	20/1	1.0	RCPTS - **ECE STORAGE**
(N) RCPT-MICROWAVE	**1.5**	20/1	19	A	20	20/1	1.0	RCPTS- **ECE STORAGE**
(N) RCPT-MICROWAVE	**1.5**	20/1	21	B	22	20/1	1.0	RCPTS - **ECE STORAGE**
(N) RCPT DOCUMENT PROC	**1.3**	20/1	23	C	24	20/1	1.0	RCPTS - **ECE STORAGE**
RCPTS **ROOM 112**	1.0	20/1	25	A	26	20/1 [2]	1.2	**SPARE**
RCPTS **ROOM 112**	1.0	20/1	27	B	28	40/2	4.2	WATER HEATER 2
RCPTS **ROOM 112**	1.0	20/1	29	C	30		4.2	
RCPTS **ROOM 112**	1.0	20/1	31	A	32	20/1	1.0	RCPT DO LAB
RCPTS **ROOM 112**	1.0	20/1	33	B	34	20/1		SPARE
RCPTS **ROOM 112**	0.7	20/1	35	C	36	20/1		SPARE
(N) RM 109, 110 & 112, TV	**1.2**	20/1	37	A	38	20/1		SPARE
SPARE		20/1	39	B	40	20/1		SPARE
SPARE		20/1	41	C	42	20/1		SPARE

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] **DISCONNECT EXISTING CONDUCTORS FROM CIRCUIT BREAKERS LEFT AS SPARE. TAPE AND TAG EXISTING SPARE CONDUCTORS.**

CONNECTED LOAD
PHASE A= 12.6 kVA
PHASE B= 15.1 kVA
PHASE C= 13.3 kVA
TOTAL = 41.1 kVA
TOTAL = 114.0 Amperes

EXISTING PANEL "L4" SECTION 1 SCHEDULE

POWER SOURCE: MAIN SWITCHBOARD "MSB" VIA XFMR " | LOCATION: ELECTRICAL ROOM E2A
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 225 AMPS | MAIN BKR: 150A | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: PANEL TYPE NEMA 1 | REMARKS: 10k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
RECEPTACLES	0.7	20/1 [2]	1	A	2	20/1 [2]	0.9	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	3	B	4	20/1 [2]	1.3	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	5	C	6	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	7	A	8	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	9	B	10	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	11	C	12	20/1 [2]	1.0	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	13	A	14	20/1 [2]	1.0	RECEPTACLES
RCPTS FURNITURE	0.7	20/1 [2]	15	B	16	20/1 [2]	0.2	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	17	C	18	20/1 [2]	0.2	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	19	A	20	20/1 [2]	0.7	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	21	B	22	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	23	C	24	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	25	A	26	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	27	B	28	20/1 [2]	0.9	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	29	C	30	20/1 [2]	0.5	RECEPTACLES
RCPTS FURNITURE	1.1	20/1 [2]	31	A	32	20/1 [2]	1.1	RECEPTACLES
RECEPTACLES	0.9	20/1 [2]	33	B	34	20/1 [2]	0.4	RECEPTACLES
RECEPTACLES	0.9	20/1 [2]	35	C	36	20/1 [2]	1.1	RECEPTACLES
RECEPTACLES	0.5	20/1 [2]	37	A	38	20/1 [2]	1.1	RECEPTACLES
COPIER	1.0	20/1 [2]	39	B	40	20/1 [2]	0.7	RECEPTACLES
RECEPTACLES	0.5	20/1 [2]	41	C	42	20/1 [2]	1.1	RECEPTACLES

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS THAT SHARE A NEUTRAL CONDUCTOR TO MEET CEC 210.4.

CONNECTED LOAD
PHASE A= 12.8 kVA
PHASE B= 11.9 kVA
PHASE C= 12.7 kVA
TOTAL = 37.4 kVA
TOTAL = 103.9 Amperes

EXISTING PANEL "L1" SECTION 2 SCHEDULE

POWER SOURCE: PANEL "L1" SECTION 1 | LOCATION: ELECTRICAL ROOM 1ST FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MLO | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
(N) PROJECT/SCR-RM 103A	**1.0**	20/1 [2]	43	A	44	20/1 [2]	1.1	OPEN OFFICE **117**
(N) PROJECT/SCR-RM 103B	**1.0**	20/1 [2]	45	B	46	20/1 [2]	1.1	OPEN OFFICE **117**
(N) DAIS-RCPT	**1.1**	20/1 [2]	47	C	48	20/1 [2]	1.1	OPEN OFFICE **117**
(N) DAIS-RCPT	**1.1**	20/1 [2]	49	A	50	20/1 [2]	1.1	OPEN OFFICE **117**
(N)AV RACK-CONFER. RM A	**0.4**	20/1 [2]	51	B	52	20/1 [2]	1.1	OPEN OFFICE **117**
(N)AV RACK-CONFER. RM B	**0.4**	20/1 [2]	53	C	54	20/1 [2]	1.1	OPEN OFFICE **117**
(N) MOTORIZED SHADES	**1.0**	20/1 [2]	55	A	56	20/1 [2]	1.1	OPEN OFFICE **117**
(N) MOTORIZED SHADES	**0.5**	20/1 [2]	57	B	58	20/1 [2]	1.1	OPEN OFFICE **117**
(N) MOTORIZED SHADES	**0.5**	20/1 [2]	59	C	60	20/1 [2]	1.1	OPEN OFFICE **117**
SPARE		20/1 [2][3]	61	A	62	20/1 [2]	1.1	OPEN OFFICE **117**
SPARE		20/1 [2][3]	63	B	64	20/1 [2]	1.1	OPEN OFFICE **117**
SPARE		20/1 [2][3]	65	C	66	20/1 [2]	0.2	RCPT-PRINTER STATION
(N)RCPT-RM 101, 104, 103A	**1.1**	20/1 [2]	67	A	68	20/1 [2]	0.9	SW OFFICES
(N)RCPT-RM 101, 104, 103A	**0.9**	20/1 [2]	69	B	70	20/1 [2]	0.9	SW OFFICES
(N)RCPT-RM 101, 104, 103A	**0.9**	20/1 [2]	71	C	72	20/1 [2]	0.9	SW OFFICES
(N)RCPT-CONFER. ROOM A	**0.9**	20/1 [2]	73	A	74	20/1 [2]	1.0	**(N) RM. 109 - TV**
(N)RCPT-CONFER. ROOM A	**0.9**	20/1 [2]	75	B	76	20/1 [2]	**0.7**	**(N) RCPT-NW RM 111,113**
(N)RCPT-PREFUNCTION B	**0.5**	20/1 [2]	77	C	78	20/1 [2]	**0.7**	**(N) RCPT-NW RM 111,113**
(N)RCPT-CONFER. ROOM B	**0.9**	20/1 [2]	79	A	80	20/1 [2]	**1.2**	**(N) COPIER-RM 127**
(N)RCPT-CONFER. ROOM B	**0.9**	20/1 [2]	81	B	82	20/1 [2][3]		**SPARE**
(N) COPIER- RM 129	**1.2**	20/1 [2]	83	C	84	20/1 [2][3]		**SPARE**

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS THAT SHARE A NEUTRAL CONDUCTOR TO MEET CEC 210.4.
[3] DISCONNECT EXISTING CONDUCTORS FROM CIRCUIT BREAKERS LEFT AS SPARE. TAPE AND TAG EXISTING SPARE CONDUCTORS.

CONNECTED LOAD
PHASE A= 13.4 kVA
PHASE B= 10.5 kVA
PHASE C= 9.6 kVA
TOTAL = 33.5 kVA
TOTAL = 93.2 Amperes

EXISTING PANEL "L2" SECTION 2 SCHEDULE

POWER SOURCE: PANEL "L2" SECTION 1 | LOCATION: ELECTRICAL ROOM 2ND FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MLO | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
NE CONF RMS, OFFICES	0.9	20/1	43	A	44	20/1	1.0	RCPT BREAK ROOM
NE CONF RMS, OFFICES	0.9	20/1	45	B	46	20/1	1.0	RCPT BREAK ROOM
NE CONF RMS, OFFICES	0.9	20/1	47	C	48	20/1	1.0	VENDING MACHINE
RCPTS CONF RM FLOOR	1.0	20/1	49	A	50	20/1	1.0	VENDING MACHINE
RCPTS CONF RM FLOOR	1.0	20/1	51	B	52	20/1	1.0	VENDING MACHINE
RCPTS TRAINING RM FLOOR	0.5	20/1	53	C	54	20/1	1.0	VENDING MACHINE
RCPTS TRAINING RM FLOOR	0.5	20/1	55	A	56	20/1	1.1	RCPTS SE OFFICE
TRAINING POJECTOR	0.6	20/1	57	B	58	20/1	0.9	RCPTS SE OFFICE
RCPTS TRAINING RM FLOOR	0.5	20/1	59	C	60	20/1	0.9	RCPTS SE OFFICE
RCPTS TRAINING RM FLOOR	0.5	20/1	61	A	62	20/1	1.0	RECEPTACLE IDF
TRAINING POJECTOR	0.6	20/1	63	B	64	20/1	1.0	RECEPTACLE IDF
RCPTS BREAK RM, OFFICE	0.7	20/1	65	C	66	20/1	0.9	RECEPTACLE OFFICE
RCPTS BREAK RM, OFFICE	0.5	20/1	67	A	68	20/1	1.1	RCPTS SW OFFICE
RCPT FILE AREA	1.0	20/1	69	B	70	20/1	1.1	RCPTS SW OFFICE
RCPT FILE AREA	0.2	20/1	71	C	72	20/1	0.9	RCPTS SW OFFICE
CATERING REFRIGERATOR	1.0	20/1	73	A	74	20/1	1.0	RCPT COFFEE BAR
RCPTS CONF RM FLOOR	1.0	20/1	75	B	76	20/1	1.0	RCPT COFFEE BAR
RCPTS CONF RM FLOOR	1.0	20/1	77	C	78	20/1	1.0	RCPT COFFEE BAR
RCPTS CONF RM FLOOR	1.0	20/1	79	A	80	20/1	0.9	RCPTS NW OFFICE
RCPT FILE AREA	1.0	20/1	81	B	82	20/1	1.3	RCPTS NW OFFICE
RCPT FILE AREA	0.2	20/1	83	C	84	20/1	0.7	RCPTS NW OFFICE

NOTES:
[1]

CONNECTED LOAD
PHASE A= 12.6 kVA
PHASE B= 13.1 kVA
PHASE C= 11.0 kVA
TOTAL = 36.7 kVA
TOTAL = 102.0 Amperes

EXISTING PANEL "L3" SECTION 2 SCHEDULE

POWER SOURCE: PANEL "L3" SECTION 1 | LOCATION: ELECTRICAL ROOM 1ST FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MLO | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
SPARE		20/1 [2][3]	43	A	44	20/1 [2]	0.4	**RCPT-BREAKOUT RM 109**
RCPTS - **IT WORKROOM**	**1.4**	20/1 [2]	45	B	46	20/1 [2]	0.4	**RCPT-BREAKOUT RM 109**
RCPTS - **IT WORKROOM**	**1.0**	20/1 [2]	47	C	48	20/1 [2]	0.4	**RCPT-BREAKOUT RM 109**
RCPTS - **IT WORKROOM**	**1.0**	20/1 [2]	49	A	50	20/1 [2]	0.4	**RCPT-BREAKOUT RM 109**
RCPTS **IT WORKROOM**	**0.4**	20/1 [2]	51	B	52	20/1 [2]	0.4	**RCPT-BREAKOUT RM 109**
RCPT - **IT WORKROOM**	**0.4**	20/1 [2]	53	C	54	20/1 [2][3]		**SPARE**
RCPT - **IT WORKROOM**	**0.4**	20/1 [2]	55	A	56	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
RCPTS **IT WORKROOM**	**0.4**	20/1 [2]	57	B	58	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
RCPTS **IT WORKROOM**	**0.7**	20/1 [2]	59	C	60	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
SPARE		20/1 [2][3]	61	A	62	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
SPARE		20/1 [2][3]	63	B	64	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
SPARE		20/1 [2][3]	65	C	66	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
SPARE		20/1 [2][3]	67	A	68	20/1 [2]	0.4	**RCPT-BREAKOUT RM 110**
SPARE		20/1 [2][3]	69	B	70	20/1		SPACE
SPARE		20/1	71	C	72	20/1		SPACE
(N) ELECT STRIKE POWER	**0.2**	20/1	73	A	74	20/1		SPACE
(N) UPFIT LIGHTING RCPT	**0.4**	20/1	75	B	76	20/1		SPACE
(N) UPFIT POWER GARAGE	**0.8**	20/1	77	C	78	20/1		SPACE
(N) UPFIT LIGHTING RCPT	**0.4**	20/1	79	A	80	20/1		SPACE
(N) UPFIT POWER GARAGE	**0.8**	20/1	81	B	82	20/1		SPACE
(N) PONDLESS PUMP	**0.2**	20/1	83	C	84	20/1		SPACE

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS THAT SHARE A NEUTRAL CONDUCTOR TO MEET CEC 210.4.
[3] DISCONNECT EXISTING CONDUCTORS FROM CIRCUIT BREAKERS LEFT AS SPARE. TAPE AND TAG EXISTING CONDUCTORS.

CONNECTED LOAD
PHASE A= 3.9 kVA
PHASE B= 4.9 kVA
PHASE C= 4.2 kVA
TOTAL = 12.9 kVA
TOTAL = 36.0 Amperes

EXISTING PANEL "L4" SECTION 2 SCHEDULE

POWER SOURCE: PANEL "L4" SECTION 1 | LOCATION: ELECTRICAL ROOM E2A
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 200 AMPS | MLO | VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES | MOUNTING: PANEL TYPE NEMA 1 | REMARKS: 10k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
RECEPTACLES	0.5	20/1	43	A	44	20/2	1.4	FC-1 / CU-1
RECEPTACLES	0.7	20/1	45	B	46		1.4	
RECEPTACLES	0.7	20/1	47	C	48	20/2	0.7	RECEPTACLE T/D
RECEPTACLES	0.7	20/1	49	A	50		0.7	
RECEPTACLES	0.7	20/1	51	B	52	20/2	0.7	RECEPTACLE T/D
RECEPTACLES	0.7	20/1	53	C	54		0.7	
RECEPTACLES	0.7	20/1	55	A	56	20/2	0.7	RECEPTACLE T/D
RECEPTACLES	0.7	20/1	57	B	58		0.7	
RECEPTACLES	0.7	20/1	59	C	60	20/2	0.7	RECEPTACLE T/D
LIGHTING	0.2	20/1	61	A	62		0.7	
RECEPTACLES T/D	0.7	20/1	63	B	64	20/1	0.8	COND PUMP CD-1
RECEPTACLES T/D	0.7	20/1	65	C	66	20/1	0.5	FIRE/SMOKE DAMPER
RECEPTACLES T/D	0.7	20/1	67	A	68	PFB		SPACE
SECURITY QUAD	0.4	20/1	69	B	70	PFB		SPACE
SECURITY DUPLEX	0.2	20/1	71	C	72	20/1	0.2	ROOF RECEPTACLES
ELECTRIC STRIKE POWER	**0.2**	**(N) 20/1**	73	A	74	PFB		SPACE
SPACE		PFB	75	B	76	PFB		SPACE
SPACE		PFB	77	C	78	PFB		SPACE
SPACE		PFB	79	A	80	PFB		SPACE
SPACE		PFB	81	B	82	PFB		SPACE
SPACE		PFB	83	C	84	PFB		SPACE

NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.
[2] PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS THAT SHARE A NEUTRAL CONDUCTOR TO MEET CEC 210.4.

CONNECTED LOAD
PHASE A= 6.6 kVA
PHASE B= 6.9 kVA
PHASE C= 5.9 kVA
TOTAL = 19.3 kVA
TOTAL = 53.7 Amperes

EXISTING PANEL "H1" SCHEDULE

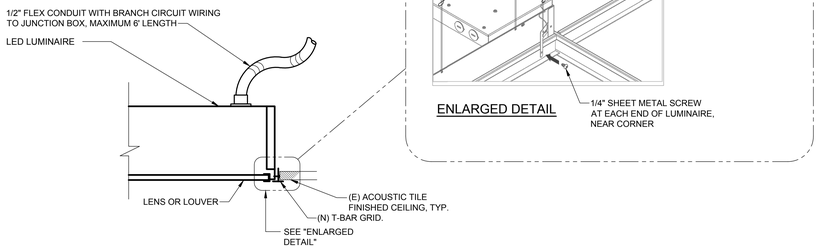
POWER SOURCE: MAIN SWITCHBOARD "MSB" | LOCATION: ELECTRICAL ROOM 1ST FLOOR
SYSTEM: NORMAL BRANCH

TYPE: | BUS: 400 AMPS | MLO | VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES | MOUNTING: SURFACE PANEL TYPE NEMA 1 | REMARKS: 42k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
WH-1	9.0	50/1	1	A	2	20/1	3.7	SITE LIGHTING EL
LIGHITNG CONTROL PANEL	0.5	20/1	3	B	4	20/1	3.7	SITE LIGHTING NL
SPACE		PFB	5	C	6	20/1	2.0	BUILDING UPLIGHTS
CONF. RMS A & B LTG	**2.7**	20/1 [2]	7	A	8	20/1	2.3	SITE LIGHTING EL
TECH/SELPA RM 117 LTG	**2.2**	20/1 [2]	9	B	10	20/1	2.3	SITE LIGHTING NL
1ST FLOOR WEST LTG	**1.5**	20/1 [2]	11	C	12	20/1	**0.6**	**SITE BOLLARDS**
RM 118,119,120,121,115 LTG	**1.0**	20/1 [2]	13	A	14	20/1	0.4	SOFFIT LIGHTING
1ST FLOOR NE LIGHTING	**1.0**	20/1 [2]	15	B	16	20/1	2.2	1ST FLOOR CORE LTG
1ST FLOOR SE LIGHTING	**1.5**	20/1 [2]	17	C	18	20/1	1.0	CORE NIGHT LIGHTS
1ST FLOOR INTERIOR LTG	**2.7**	20/1 [2]	19	A	20	20/1	1.6	2ND FLOOR CORE LTG

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

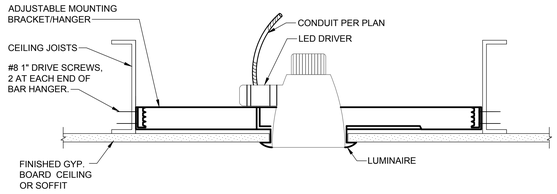
IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



SIDE VIEW

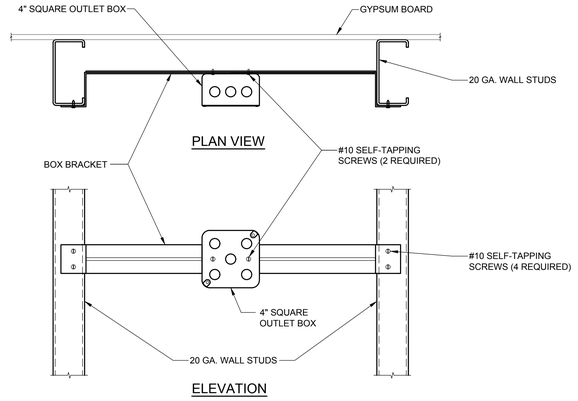
1 E5.01 — LAY-IN LUMINAIRE MOUNTING DETAIL (T-BAR CEILING)

NO SCALE



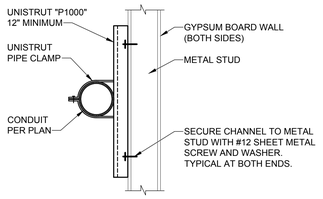
2 E5.01 — RECESSED DOWNLIGHT LED LUMINAIRE MOUNTING DETAIL

NO SCALE



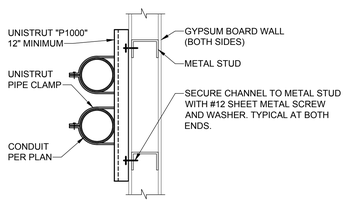
3 E5.01 — BOX SUPPORT (BETWEEN STUDS)

NO SCALE



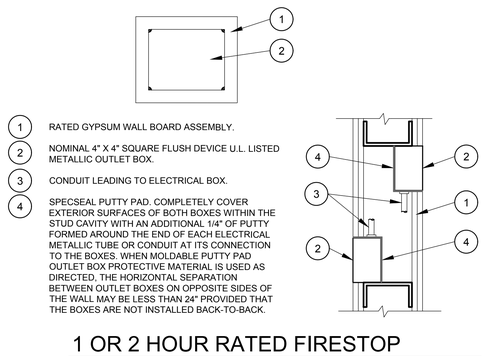
4 E5.01 — CONDUIT SURFACE MOUNTING DETAIL

NO SCALE



5 E5.01 — CONDUIT SURFACE MOUNTING DETAIL

NO SCALE



1 OR 2 HOUR RATED FIRESTOP FOR METALLIC ELECTRICAL OUTLET BOXES USING SPECSEAL PUTTY PADS

6 E5.01

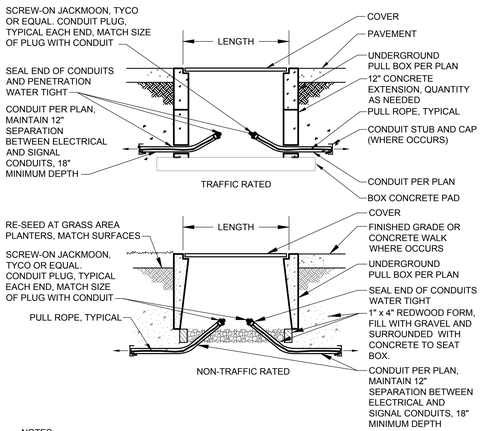
NO SCALE

2

UNDERGROUND PULL BOX SCHEDULE

TAG	NOMINAL WIDTH	NOMINAL LENGTH	NOMINAL DEPTH
PB10	10"	17"	12"
PB13	13"	24"	12"
PB17	17"	30"	12"
PB24	24"	36"	12"
PB30	30"	48"	12"

REFER TO PLAN FOR LOCATION OF BOXES AND TYPES USED.

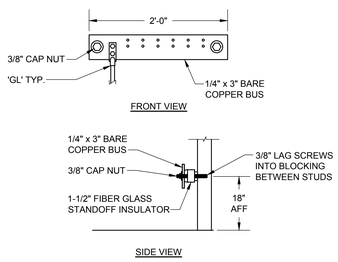


NOTES:

1. PULL BOX SHALL BE TRAFFIC RATED WHEN SUBJECT TO VEHICULAR TRAFFIC
2. CLEAN 2" AND LARGER SPARE EMPTY CONDUITS WITH APPROPRIATE SIZE MANDREL PRIOR TO PLACING PULL ROPE AND PLUGGING EMPTY CONDUITS WITH CONDUIT PLUGS.
3. PULL ROPE: TIE OFF EACH END TO DUCT PLUG TO PREVENT PULL ROPE LOSS IN CONDUIT.

9 E5.01 — UNDERGROUND PULL BOX DETAIL & SCHEDULE

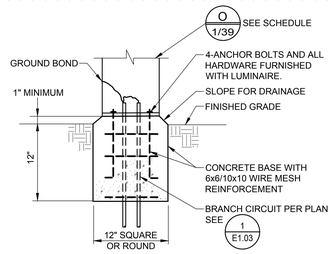
NO SCALE



7 E5.01 — GROUND BUS DETAIL

NO SCALE

2



8 E5.01 — BOLLARD LUMINAIRE MOUNTING DETAIL

NO SCALE

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Aug 30, 2023 - 2:02pm, / kerlo

PCOE GOLD IN EDUCATION

Revisions			
Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/25 — ELECTRICAL — STATE OF CALIFORNIA

08/30/2023

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 6013

Facility

NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project

TENANT IMPROVEMENTS

Sheet Title

ELECTRICAL DETAILS

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **E5.01**

Sheet 1 of

0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**

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 for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: 23045.21 PCOE Stanford Ranch Corp Center Rocklin CA — **Report Page:** (Page 1 of 10)
Project Address: — **Date Prepared:** 2023-08-17T15:11:20-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Rocklin	04	Total Conditioned Floor Area (ft²)	54,228
02	Climate Zone	11	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2

● Office ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	54228	N/A	0
Total Area of Work (ft²)	54228			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**
Project Name: 23045.21 PCOE Stanford Ranch Corp Center Rocklin CA — **Report Page:** (Page 2 of 10)
Date Prepared: 2023-08-17T15:11:20-04:00

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07	08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)		
Conditioned		26,812.05			=	26,812.05	≥	25,380.4		25380.4	COMPLIES
Unconditioned					=		≥				
										Controls Compliance (See Table H for Details)	COMPLIES
										Rated Power Reduction Compliance (See Table Q for Details)	

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**
Project Name: 23045.21 PCOE Stanford Ranch Corp Center Rocklin CA — **Report Page:** (Page 3 of 10)
Date Prepared: 2023-08-17T15:11:20-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector Pass	Fail
A	2X4 LED	No	NA	45	Mfr. Spec	431	No	19,395	☐	☐
B1	2X2 LED	No	NA	29	Mfr. Spec	43	No	1,247	☐	☐
B2	2X2 LED	No	NA	47	Mfr. Spec	2	No	94	☐	☐
C	LED DOWNLIGHT	No	NA	23.6	Mfr. Spec	43	No	1,014.8	☐	☐
D	12" ROUND LED CANOPY PENDANT	No	NA	15.6	Mfr. Spec	4	No	62.4	☐	☐
E	LED LINEAR WALL WASH	No	NA	20.8	Mfr. Spec	10	No	208	☐	☐
F1	24" LINEAR LED	No	NA	158.4	Mfr. Spec	15	No	2,376	☐	☐
F2	8' LINEAR LED	No	NA	52.8	Mfr. Spec	6	No	316.8	☐	☐
G	11" ROUND LED CANOPY	No	NA	15.6	Mfr. Spec	6	No	93.6	☐	☐
H	48" UNDER-CABINET LED	No	NA	22	Mfr. Spec	11	No	242	☐	☐
I	3-ARM LED CHANDELIER	No	NA	75	Mfr. Spec	2	No	150	☐	☐
J	ROUND LED DOWNLIGHT	No	NA	14.7	Mfr. Spec	2	No	29.4	☐	☐
K	MULTI ROUND PENDANT	No	NA	60	Mfr. Spec	1	No	60	☐	☐
L	8' LINEAR LED	No	NA	36.2	Mfr. Spec	1	No	36.2	☐	☐
M1	1X4 LINEAR LED	No	NA	13.8	Mfr. Spec	2	No	27.6	☐	☐
M2	1X4 LINEAR LUMINAIRE SUSPENDED	No	NA	13.8	Mfr. Spec	2	No	27.6	☐	☐
						Total Designed Watts: CONDITIONED SPACES		25,380.4		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**
Project Name: 23045.21 PCOE Stanford Ranch Corp Center Rocklin CA — **Report Page:** (Page 4 of 10)
Date Prepared: 2023-08-17T15:11:20-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**
Project Name: 23045.21 PCOE Stanford Ranch Corp Center Rocklin CA — **Report Page:** (Page 5 of 10)
Date Prepared: 2023-08-17T15:11:20-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector Pass	Fail
OPEN OFFICES 117, 251, 213, 206	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
BOARDROOMS (2)	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
ROOMS 104, 112, 111, 113, 116, 133, 201, 202	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
BOARDROOM PREFUNCTION A, B AND C	Lounge	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
RESTROOMS 106 and 107	Restroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
BREAKROOM 119	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
TRAINING ROOM 207	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
ALL REMAINING CORRIDORS AND OFFICES	All Other Space Types	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
BREAKROOMS 215 and 255	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
								13	
								Plan Sheet Showing Daylit Zones:	
								Plan sheets E2.04, E2.05, E2.06	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — **NRCC-LTI-E**
Project Name: 23045.21 PCOE Stanford Ranch Corp Center Rocklin CA — **Report Page:** (Page 6 of 10)
Date Prepared: 2023-08-17T15:11:20-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	PAF
OPEN OFFICES 117, 251, 213, 206	Office (>250 square feet)	0.6	12,648	7,588.8	No	No
BOARDROOMS (2)	Convention, Conference, Multipurpose and Meeting Center	0.75	4,080	3,060	No	No
ROOMS 104, 112, 111, 113, 116, 133, 201, 202	All Other Space Types	0.4	2,645	1,058	No	No
BOARDROOM PREFUNCTION A, B AND C	Lounge	0.55	2,545	1,399.75	No	No
RESTROOMS 106 and 107	Restroom	0.65	128	83.2	No	No
BREAKROOM 119	Kitchen/ Food Preparation	0.95	650	617.5	No	No
TRAINING ROOM 207	All Other Space Types	0.4	1,127	450.8	No	No
ALL REMAINING CORRIDORS AND OFFICES	All Other Space Types	0.4	31,385	12,554	No	No
		TOTALS:	55,208	26,812.05	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.
UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans.
Aug 30, 2023 – 2:02pm, / kerlo

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Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/25 — ELECTRICAL — STATE OF CALIFORNIA
08/30/2023

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Client Project Number: N/A

Scale:	AS NOTED
Drawn By:	KL
Checked By:	YVZ
Issue Date:	July 21, 2023
Revit Version:	2023

Sheet **E6.01**
Sheet 1 of

0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
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CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:	23045.21 PCOE Stanford Ranch Corp Center Rocklin CA	**Report Page:**	**(Page 1 of 6)**
Project Address:		**Date Prepared:**	2023-08-16T15:18:22-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Rocklin	04	Total Illuminated Hardscape Area (ft²)	24096
02	Climate Zone	11			

03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Urban Clusters ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Rural Areas ☒ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project

● Office

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☐ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ● No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☒ >= 10% and < 50% ☐ >= 50%	15	Not Increasing Existing Power Method per 141.0(b)2L / 180.2(b)4Bv

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	23045.21 PCOE Stanford Ranch Corp Center Rocklin CA	**Report Page:**	**(Page 2 of 6)**
		Date Prepared:	2023-08-16T15:18:22-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
---	+	---	+	---	+	---	+	---	OR	1,950	=	1,950	≥	585	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	23045.21 PCOE Stanford Ranch Corp Center Rocklin CA	**Report Page:**	**(Page 3 of 6)**
		Date Prepared:	2023-08-16T15:18:22-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
O	8" LED Bollard	☐ Linear	39	Mfr. Spec	15	Existing Alteration	☐	585	NA: < 6200 lumens	☐	☐
							Total Design Watts:	585			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	23045.21 PCOE Stanford Ranch Corp Center Rocklin CA	**Report Page:**	**(Page 4 of 6)**
		Date Prepared:	2023-08-16T15:18:22-04:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Sidewalk/walkway: "O"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This section does not apply to this project.

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	23045.21 PCOE Stanford Ranch Corp Center Rocklin CA	**Report Page:**	**(Page 5 of 6)**
		Date Prepared:	2023-08-16T15:18:22-04:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This table includes all existing luminaires being replaced to establish the lighting power allowance per 141.0(b)2Lii, 141.0(b)2Liii, 180.2(b)4Bvb and 180.2(b)4Bvc. Existing luminaires that are remaining or being moved should NOT be included.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Existing Conditions Wattage:

01	02	03	04	05	06	07	
Name or Item Tag	Complete Luminaire Description	Watts per luminaire[1,2]	How is Wattage determined	# of Luminaires Being Replaced[2]	Existing Watts	Field Inspector	
						Pass	Fail
(R) or Numbered Note 3	Existing bollard to be removed.	130	Mfr. Spec[3]	15	1950	☐	☐
				Total Existing Watts	1950		
				Allowance per 141.0(b)2L / 180.2(b)4Bv:	1950		

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

CERTIFICATE OF COMPLIANCE — **NRCC-LTO-E**

Project Name:	23045.21 PCOE Stanford Ranch Corp Center Rocklin CA	**Report Page:**	**(Page 6 of 6)**
Project Address:		**Date Prepared:**	2023-08-16T15:18:22-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Yvette J Van Zanten	Documentation Author Signature:
Company: M. Neils Engineering	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Yvette J Van Zanten	Responsible Designer Signature:
Company: M. Neils Engineering	Date Signed:
Address:	License:
City/State/Zip:	Phone:

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.
Aug 30, 2023 – 2:02pm, / kerlo

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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REGISTERED PROFESSIONAL ENGINEER YVETTE J. VAN ZANTEN No. E15483 Exp. 6/30/25 ELECTRICAL STATE OF CALIFORNIA
08/30/2023

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
TITLE 24 OUTDOOR LIGHTING COMPLIANCE FORMS

Client Project Number: N/A

M. NEILS ENGINEERING, INC.
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400

PROJECT #: 23045.21
PROJECT MGR: Y. Van Zanten

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date: July 21, 2023
Revit Version: 2023

Sheet **E6.03** 2

Sheet 1 of

GRAPHIC SCALES: 0 5' 50' 1/16" = 1'-0" | 0 5' 25' 1/8" = 1'-0" | 0 1' 12' 1/4" = 1'-0" | 0 1' 6' 1/2" = 1'-0" | 0 4' 3/4" = 1'-0" | 0 1' 3' 1" = 1'-0" | 0 2' 1 1/2" = 1'-0" | 0 1' 3" = 1'-0"

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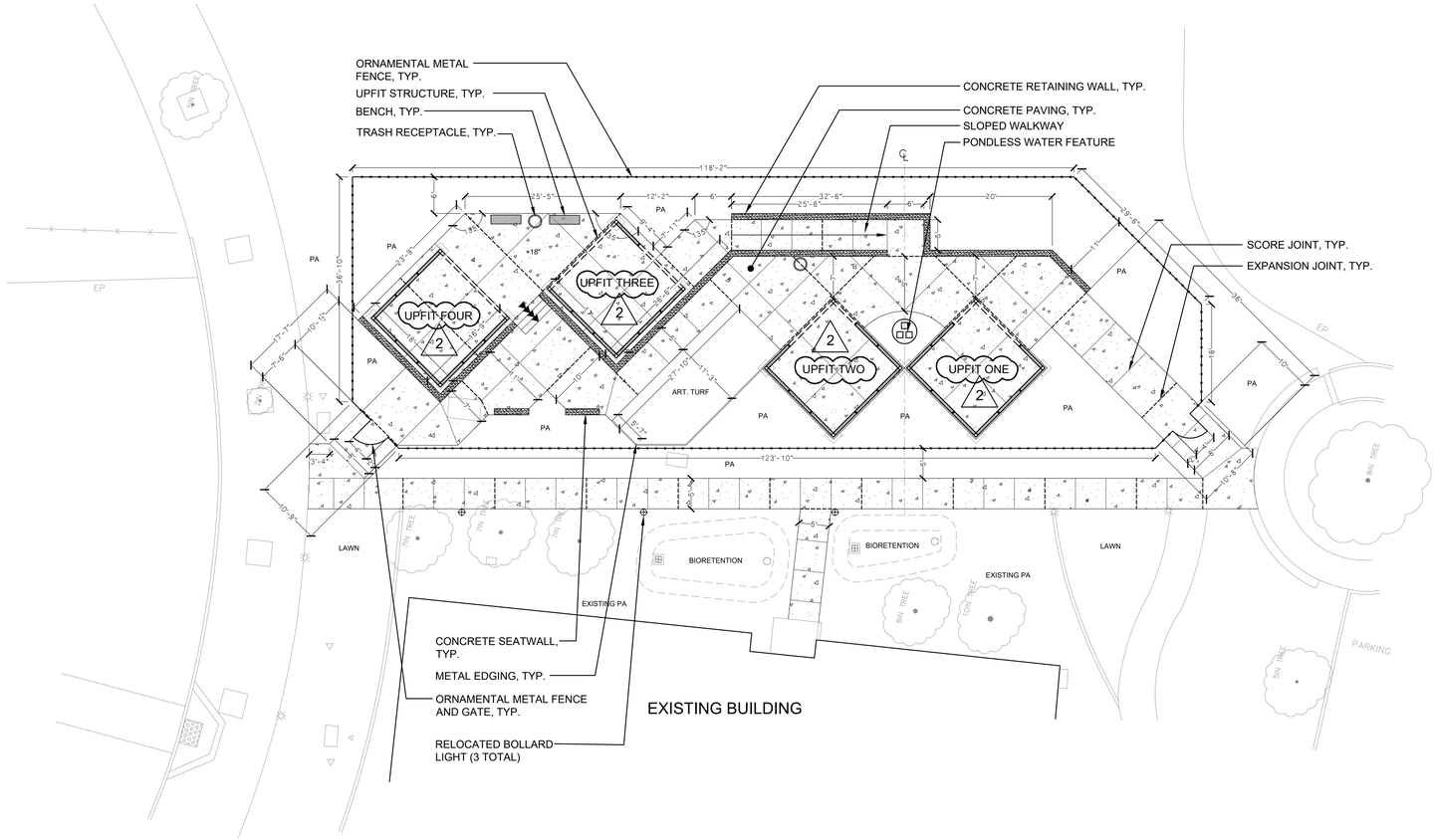

KEY / SITE LEGEND

- CONCRETE PAVING
  FINISH: BROOM
  COLOR: NO COLOR
  SEE CIVIL SHEETS
- SCORE JOINT
  SEE DETAIL 2/L4.1
- EXPANSION JOINT
  SEE DETAIL 1/L4.1
- METAL EDGING
  SEE DETAIL 4/L4.1
- PA — DENOTES PLANTER AREA
- ORNAMENTAL METAL FENCE AND GATE
  6' TALL ORNAMENTAL METAL FENCE
  COLOR: BLACK
  SEE DETAIL 7/L4.1 AND 8/L4.1
- STAIR STEPS WITH HANDRAILS
  SEE DETAIL 5/L4.1 AND 6/L4.1
- CONCRETE RETAINING WALL OR SEATWALL
  SIZE: 12" WIDE, 18" TALL
  COLOR: NO COLOR
  SEE DETAIL 3/L4.1 AND 4/L4.1
- PONDLESS WATER FEATURE
  MANUFACTURER: THEPONDGUY.COM
  PRODUCT: RUSTIC TRIPLE BASALT FOUNTAIN KIT WITH MIXED POLISHED PEBBLES
- BENCH (2 TOTAL)
  MANUFACTURER: VICTOR STANLEY
  PRODUCT MODEL #: S-13
  SLATS: WOOD
  LEGS AND ARMRESTS COLORS: BLACK
  SEE DETAIL 9/L4.1.
- TRASH RECEPTACLE (2 TOTAL)
  MANUFACTURER: VICTOR STANLEY
  PRODUCT MODEL #: DYN-SD-36
  LID: TAPERED FORMED
  COLOR: BLACK
  SEE DETAIL 10/L4.1.
- SHADE STRUCTURES (4 TOTAL) (OFCI):
  MANUFACTURER: LANDSCAPE FORMS
  PRODUCT: UPFIT ADAPTIVE OUTDOOR STRUCTURE
  TOTAL SIZE: 16'X16'
  CONTACT: NATHAN DAMRATOWSKI
  (269)337-1247
  NATHAND@LANDSCAPEFORMS.COM
  CONTRACTOR TO POUR FOOTINGS FOR POSTS AND USE CERTIFIED UPFIT INSTALLER FOR STRUCTURE INSTALLATION. FOOTINGS TO BE INSTALLED 4'-6" BELOW TOP OF CONCRETE
  FOOTING SIZE IS 24" X 24" X 24"
- RELOCATED BOLLARD LIGHT (2)
  SEE ELECTRICAL SHEETS

10' 5' 0 10' 20'
SCALE: 1"= 10'-0"

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Revisions		
2	ADDENDUM #2	8/31/23

AGENCY APPROVAL

PLAN CHECK SET
ISSUE DATE: 7/21/23 BY: BG

23-23

MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

PETER D. LARIMER — LANDSCAPE ARCHITECT — No. 5284 — 7/21/23 — 6/30/24 — STATE OF CALIFORNIA

Peter D. Larimer C-5284

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530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 6013

Facility
NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
SITE PLAN

Client Project Number: N/A

Scale:
Drawn By: AC/PL
Checked By: PL
Issue Date: July 21, 2023
Revit Version:

Sheet
L0.1
Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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NOTE:
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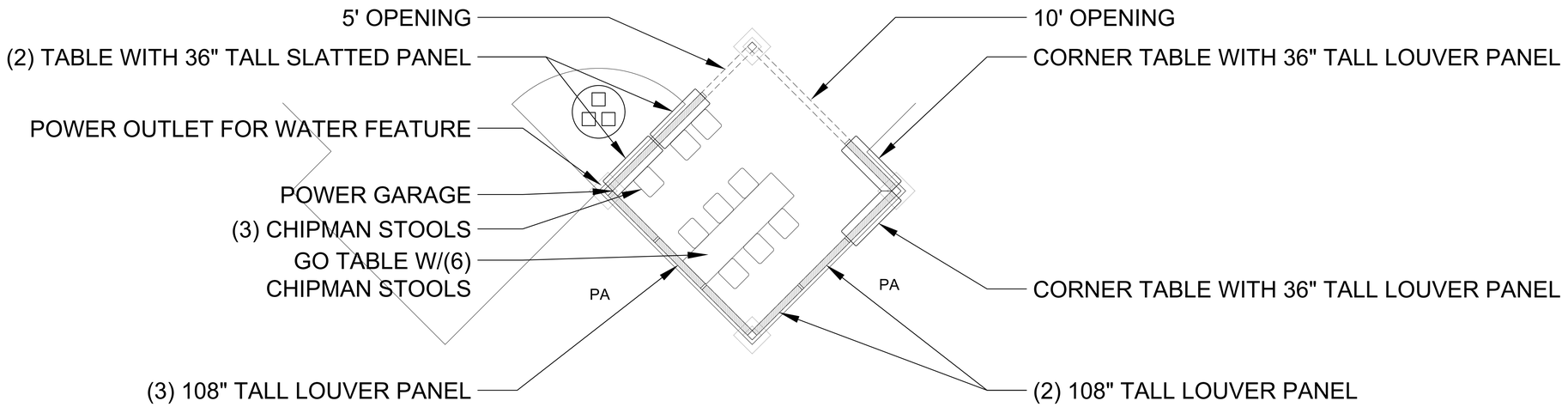
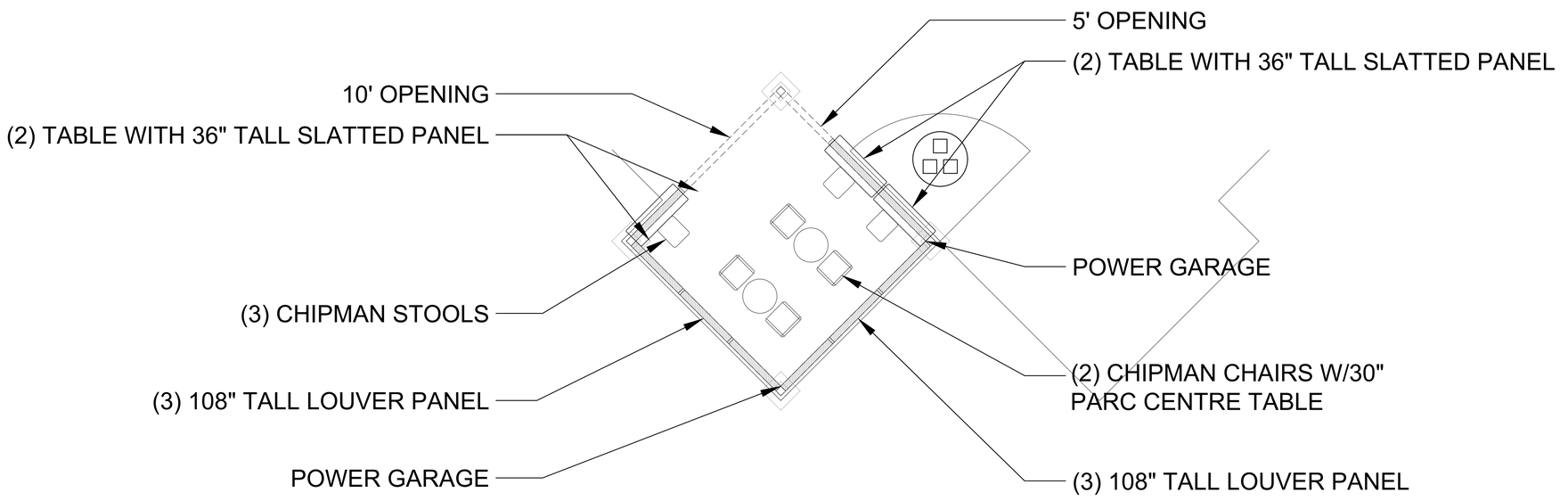
UPFIT ONE



UPFIT TWO



4' 2' 0 4' 8'
SCALE: 1/4"= 1'-0"

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Revisions

	Revisions	By
2	ADDENDUM #2 8/31/23	

AGENCY APPROVAL

PLAN CHECK SET
ISSUE DATE: 7/21/23 BY: BG

23-23

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LANDSCAPE ARCHITECTURE AND PLANNING
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PROFESSIONAL LANDSCAPE ARCHITECT — 7/21/23 — 6/30/24 — STATE OF CALIFORNIA

Peter D. Larimer C-5284

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HY Architects Project number: 6013

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NEW MAIN OFFICE
1400 STANFORD RANCH, ROCKLIN CA 95765

Project
TENANT IMPROVEMENTS

Sheet Title
UPFIT STRUCTURE ENLARGEMENTS

Client Project Number: N/A

Scale:
Drawn By: AC/PL
Checked By: PL
Issue Date: July 21, 2023
Revit Version:

Sheet
L0.2
Sheet of 2

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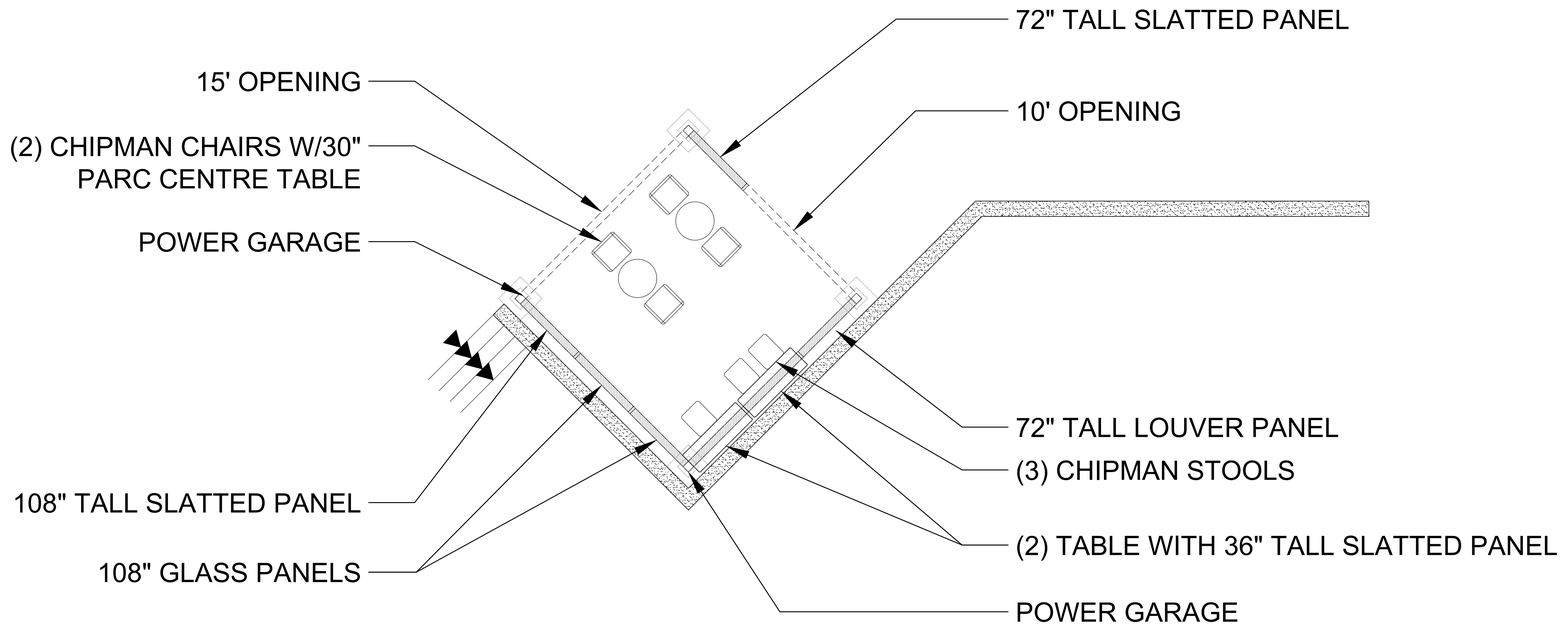
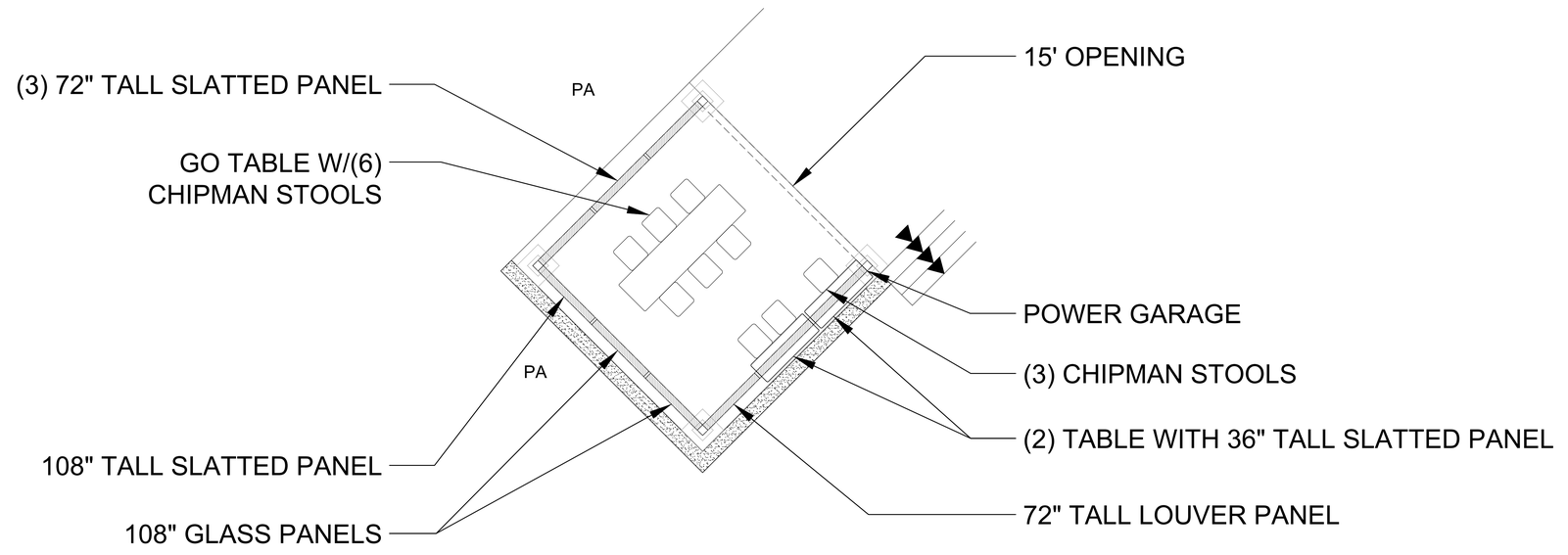
UPFIT THREE



UPFIT FOUR



4' 2' 0 4' 8'
SCALE: 1/4"= 1'-0"

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	Revisions	By
2	ADDENDUM #2	8/31/23

AGENCY APPROVAL

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PROFESSIONAL LANDSCAPE ARCHITECT — PETER D. LARIMER — 7/21/23 — 6/30/24 — STATE OF CALIFORNIA

Peter D. Larimer C-5284

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NEW MAIN OFFICE
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Project
TENANT IMPROVEMENTS

Sheet Title
UPFIT STRUCTURE ENLARGEMENTS

Client Project Number: N/A

Scale:
Drawn By: AC/PL
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Issue Date: July 21, 2023
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Sheet
L0.3
2
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DOOR AND FRAME SCHEDULE

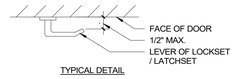
LOCATION	DOOR MARK	DOOR NOMINAL SIZE WIDTH	DOOR NOMINAL SIZE HEIGHT	DOOR MATERIAL	DOOR TYPE	DOOR GLASS	FRAME MATERIAL	FRAME TYPE	FRAME GLASS	FRAME DETAILS (REF. DWG. A8.01 U.O.N.) HEAD	JAMB	SILL	DOOR HARDWARE	FIRE RATING	REMARKS	SIGNAGE TYPE	SIGN TEXT/ROOM
	109A	4' - 0"	7' - 0"														
	130	9' - 0"	8' - 6"	STL	E	-	STL	-	-	6/A8.01	2/A8.01		2				
	131R	20' - 0"	8' - 6"	STL	E	-	STL	-	-	6/A8.01	2/A8.01						
	131B	3' - 0"	7' - 0"	HM	A		HM	1	-	1/A9.03	2/A9.03		C	45			
	131C	6' - 0"	7' - 0"	HM	C		HM	2	-	1/A9.03	2/A9.03		D	45			
	132A	12' - 0"	8' - 6"	STL	E		STL	-	-	6/A8.01	2/A8.01						
	132B	6' - 0"	7' - 0"	HM	C		HM	2	-	1/A9.03	2/A9.03		B				
	132C	3' - 0"	7' - 0"	HM	A		HM	1	-	1/A9.03	2/A9.03		A				
	134A	3' - 0"	7' - 0"	HM	B		HM	1	-	1/A9.03	2/A9.03		A				
	134B	6' - 0"	7' - 0"	HM	D		HM	2	-	1/A9.03	2/A9.03		B				
	SG01	20' - 0"	8' - 6"														
	SG02	20' - 0"	8' - 6"														

GENERAL DOOR NOTES

1. WHERE DIMENSIONS ARE NOT PROVIDED ON DWGS. OTHER THAN THE FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:

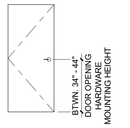
A. B.

2. SEE SPECIFICATIONS FOR HARDWARE GROUPS.
3. ALL NEW HARDWARE TO BE ADA COMPLIANT, INCLUDING LEVER ACTION DOOR KNOBS. ALL LEVER RETURNS. SHALL BE WITHIN 1/2" OF THE FACE OF DOORS AS SHOWN BELOW.



TYPICAL DETAIL

4. ADJUST DOOR CLOSER FOR MAXIMUM PUSH/PULL EFFORT TO OPERATE DOOR AS FOLLOWS: (EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO CENTER PLANE OF DOOR):
   A. INTERIOR DOORS: NOT TO EXCEED 5 POUNDS.
   B. EXTERIOR DOORS: NOT TO EXCEED 5 POUNDS
   C. FIRE RATED DOORS: THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS IN ORDER TO ACHIEVE POSITIVE LATCHING, BUT NOT EXCEEDING THE 15 LBF MAX.
5. PAINT DOORS & FRAMES , TYPICAL, U.O.N.
6. ALL DOORS 1-3/4" THICK U.O.N.
7. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" MIN AND 44" MAX ABOVE THE FINISHED FLOOR CBC 1008.1.9.2 CBC 1133B.2.5.2



8. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. CBC 11B-309.4 AND CBC 1010.1.9.1
9. DOOR CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM PER 11B-404.2.8.1.
10. ALL INTERIOR WOOD DOORS AT BLDG G TO BE STAINED AND HM FRAMES TO BE PAINTED.
11. ALL INTERIOR HM & WOOD DOORS AND FRAMES TO BE PAINTED .
12. ALL EXTERIOR HM DOORS IN HM FRAMES TO BE PAINTED
13. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT EXCEPT AS SPECIFICALLY PERMITTED IN CBC 1010.1.9.
14. (E) INDICATES (E) DOOR HARDWARE TO REMAIN

DOOR & FRAME SCHEDULE REFERENCE GUIDE

1. DOOR MARK: — SPECIFIC NUMBER ASSIGNED TO INDIVIDUAL DOOR.
2. NOMINAL DOOR SIZE: — DESIGNATES NOMINAL WIDTH AND HEIGHT OF DOOR IN FEET AND INCHES. DOOR WIDTH IS GIVEN PER LEAF. REFER TO FLOOR PLAN FOR PAIRS OF DOORS. THICKNESS OF DOOR IS 3/4" THK., TYP. U.O.N.
1. DOOR MATERIAL: — INDICATES MATERIAL FROM WHICH DOOR IS CONSTRUCTED I.E., HM-HOLLOW METAL, WD-SOLID CORE WOOD, AL-ALUMINUM, FRP - SOLID CORE WOOD FINISHED W/ FRP, FG - FULL GLASS
2. DOOR DESCRIPTION: — DESCRIBE THE NUMBER OF LEAVES
3. DOOR TYPE: — ALPHANUMERICAL DESIGNATION OF DOOR TYPE AS SHOWN IN ELEVATION.
4. FRAME MATERIAL: — INDICATES MATERIAL FROM WHICH FRAME IS CONSTRUCTED, I.E., HM-HOLLOW METAL, WD-WOOD, AL-ALUMINUM, SST - STAINLESS STEEL, ETC.
5. FRAME TYPE: — NUMERICAL DESIGNATION OF FRAME TYPE AS SHOWN IN FRAME TYPE ELEVATION.
6. GLASS: — DESIGNATES TYPE OF GLASS TO BE USED IN FRAME, W.O., I.E., TG-TEMPERED GLASS, WG-WIRE GLASS, LAM-LAMINATED GLASS, ETC.
7. HARDWARE GROUP: — NUMERICAL DESIGNATION OF HARDWARE GROUPING. TO BE APPLIED TO DOOR. REFER TO SPECIFICATIONS FOR DESCRIPTION OF HARDWARE CONTAINED WITHIN GROUPING.
8. LOCK: — DESIGNATES DOORS THAT SHALL HAVE LOCK HARDWARE THAT WILL ALLOW ROOMS WITH AN OCCUPANCY OF FIVE OR MORE TO BE LOCKED FROM THE INSIDE, PURSUANT TO CBC 1010.1.11, WITH LOCKS THAT CONFORM TO THE SPECIFICATION AND REQUIREMENT FOUND IN CBC 1010.1.9
9. DOOR AND FRAME FIRE RATING: — DESIGNATES ALPHABETICAL FIRE RESISTANCE RATING CLASSIFICATION LABEL REQUIRED FOR DOOR AND FRAME WITH TIME PERIOD REQUIRED IN MINUTES.
10. REMARKS: — DESIGNATES OR REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THRU 14. REFER TO REMARKS REFERENCE SCHEDULE FOR NUMERICAL DESIGNATION AND REMARKS LEGEND FOR SPECIFIC INFORMATION.
11. SIGNAGE: — DESIGNATES SIGNS ADJACENT TO DOORS. REFER TO SIGNAGE SCHEDULE FOR SIGN TYPE AND DETAILS.
12. SIGN TEXT: — INDICATES TEXT FOR ROOM IDENTIFICATION SIGNS, (E) INDICATES (E) TO REMAIN.

LEGEND

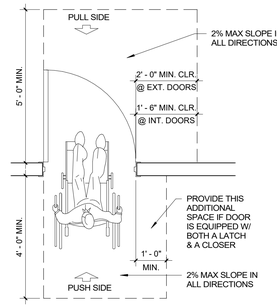
ALL DOORS ARE TO BE 1-3/4" THICK U.N.O.

HM = HOLLOW METAL
WD = WOOD
ALUM = ALUMINUM
TRACK = ROLLER TRACK
T= THRESHOLD (ALL CLASSROOMS AND RESTROOMS)
L= GROUP E LOCKABLE DOORS FROM THE INSIDE DOORS MARKED SHALL MEET CBC 1010.1.11 WITH LOCKS THAT ALLOW ROOMS WITH AN OCCUPANCY OF FIVE OR MORE TO BE LOCKED FROM THE INSIDE

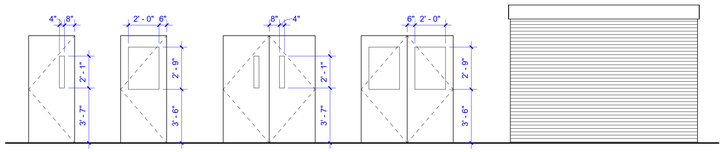
TEMP = TEMPERED GLASS
SF = STOREFRONT
STL = STEEL
INSUL = INSULATED

DOOR TAG

ACCESSIBLE DOOR CLEARANCE



DOOR TYPES

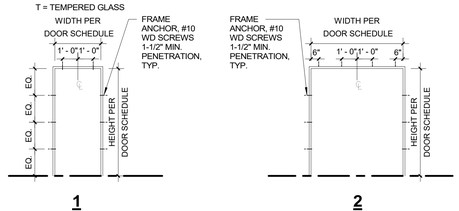


A SINGLE DOOR | **B** SINGLE DOOR | **C** DOUBLE DOOR | **D** DOUBLE DOOR | **E** ROLL-UP DOOR

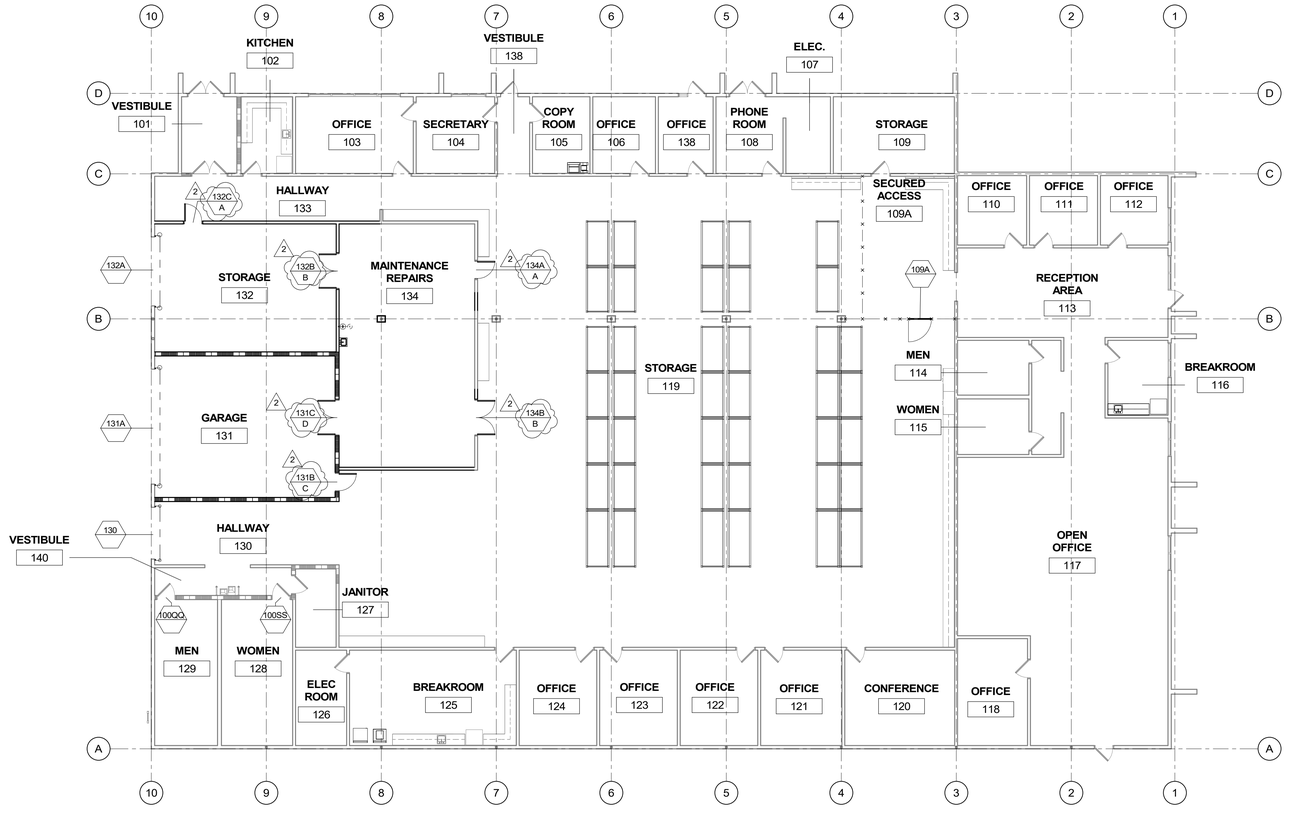
DOOR FRAME TYPES

1 SINGLE DOOR | **2** DOUBLE DOOR

FRAME ANCHORAGE



1 SINGLE DOOR | **2** DOUBLE DOOR



20 FIRST FLOOR - DOOR PLAN
3/32" = 1'-0"

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9/1/2023 9:37:01 AM

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Revisions			
Delta	Date	Revisions	By
2	9/1/2023	ADDENDUM 2	HW

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CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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Project
ANNEX BUILDING ALTERATIONS

Sheet Title
DOOR PLANS & DOOR SCHEDULE

Client Project Number:

Scale: AS NOTED
Drawn By: GB
Checked By: HC
Issue Date: 7/24/2023
Revit Version: 2023

Sheet **A2.10**
Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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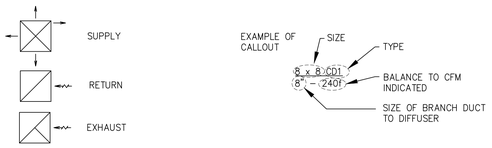
DIFFUSER, REGISTER, & GRILLE SCHEDULE



SYMBOL	DESCRIPTION SHALL BE EQUAL TO:
CD1	CEILING DIFFUSER – 1 "TITUS" MODEL MCD, MODULAR CORE, STEEL CONSTRUCTION, FRAME TYPE 3 FOR T-BAR INSTALLATION. DIFFUSER, SIZE AND BLOW PATTERN AS INDICATED ON DRAWINGS. WHITE FINISH.
CD2	CEILING DIFFUSER – 2 "TITUS" MODEL MCD, MODULAR CORE, STEEL CONSTRUCTION, FRAME TYPE 1 FOR SURFACE MOUNTING. DIFFUSER, SIZE AND BLOW PATTERN AS INDICATED ON DRAWINGS. WHITE FINISH.
R1	RETURN REGISTER – 1 "TITUS" MODEL 50F, ½"x½"x1" EGG-CRATE GRID, ALUMINUM CONSTRUCTION, FRAME TYPE 3 FOR T-BAR INSTALLATION, WHITE PAINT, SIZE AS INDICATED ON DRAWINGS.
R2	RETURN REGISTER – 2 "TITUS" MODEL 50F, ½"x½"x1" EGG-CRATE GRID, ALUMINUM CONSTRUCTION, FRAME TYPE 1 FOR SURFACE MOUNTING, WHITE PAINT, SIZE AS INDICATED ON DRAWINGS.
ER1	EXHAUST REGISTER – 1 SAME AS R1
ER2	EXHAUST REGISTER – 2 SAME AS R2
TG1	TRASFER GRILL – 1 "TITUS" MODEL 23RL, STEEL CONSTRUCTION, 45 DEG. BLADE ANGLE, WHITE PAINT, SIZE AS INDICATED ON DRAWINGS.

COMPLIANCE NOTES

MECHANICAL AND PLUMBING EQUIPMENT SHALL CONFORM TO THE FOLLOWING AS STATED IN THE ENERGY EFFICIENCY STANDARDS, 2022.

1. BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS:

110.1 APPLIANCES REGULATED BY THE APPLIANCE EFFICIENCY STANDARDS:
110.2 HVAC EQUIPMENT EFFICIENCY AND PACKAGED CONTROLS:
110.3 SERVICE WATER HEATING EFFICIENCY AND CONTROLS:
110.4 POOL AND SPA HEATING EFFICIENCY AND CONTROLS:
110.5 RESTRICTIONS ON PILOT LIGHTS:

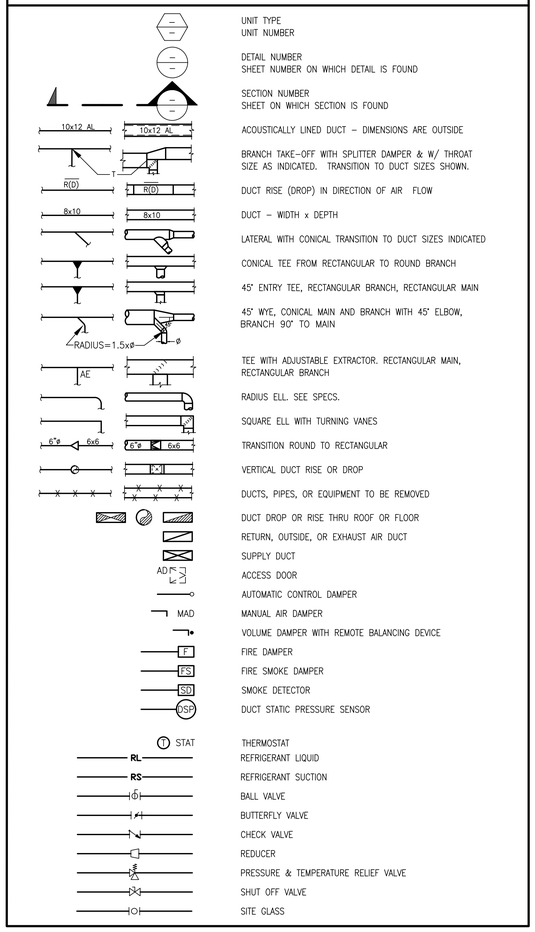
2. BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTIONS.

120.1 REQUIREMENTS FOR VENTILATION:
120.2 REQUIRED CONTROLS FOR HVAC SYSTEMS:
120.2 (H) DEMAND SHED CONTROLS.
120.2 (I) ECONOMIZER FAULT DETECTION & DIAGNOSTIC.
120.3 REQUIREMENTS FOR PIPE INSULATION:
120.4 REQUIREMENTS FOR DUCT INSULATION:

MECHANICAL ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AB.C, OH	ABOVE CEILING, OVERHEAD
AC	AIR CONDITIONING
AD	ACCESS DOOR
ADA	AMERICANS W/ DISABILITIES ACT
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICALLY LINED
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BR	BRANCH
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM, f	CUBIC FEET OF AIR PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CO	CLEANOUT
CONC.	CONCRETE
CONN.	CONNECT
CR	CONDENSATE RETURN (STEAM)
CS	CURRENT SENSOR
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CVB	CONSTANT VOLUME BOX
CW	COLD WATER
DB	DRY BULB
DF	DOUGLAS FIR
DIA, ø	DIAMETER
DSP	DUCT STATIC PRESSURE SENSOR
EA, OA, RA, SA	EXHAUST, OUTSIDE, RETURN & SUPPLY AIR
E.C.	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FA	FACE AREA (SQUARE FEET)
FC	FLEXIBLE CONNECTION
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GALV.	GALVANIZED
GA	GAUGE
GC	GENERAL CONTRACTOR
HP	HORSE POWER
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HZ	FREQUENCY (HERTZ)
LBS	POUNDS
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	BTU PER HOUR (THOUSAND)
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
(N) (E)	NEW, EXISTING
N.C.	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OP	OPERATING
PH	PHASE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTDF	PRESSURE TREATED DOUGLAS FIR
P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
REF	ROOF EXHAUST FAN
REQ'D	REQUIRED
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION,
SM	SHEET METAL
SMS	SHEET METAL SCREWS
ST SMS	SELF TAPPING SHEET METAL SCREW
SOV	SHUT OFF VALVE
SS	STAINLESS STEEL
STL	STEEL
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
THK	THICK
TR	TO REMAIN
TSP	TOTAL STATIC PRESSURE
TV	TURNING VANES
TYP	TYPICAL
UG, UF	UNDERGROUND, UNDERFLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VAC	VOLTS ALTERNATING CURRENT
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB
WG	WATER GAUGE
WOG	WATER OIL GAS PRESSURE RATING
WP	WATER PRESSURE
WPD	WATER PRESSURE DROP
WT, AT	WATERTIGHT, AIRTIGHT

MECHANICAL LEGEND



(E) AIR CONDITIONING UNIT

SYMBOL	MANUFACTURER	MODEL	NOMINAL TONS	COOLING CAPACITY						FAN				OSA		HEATING CAPACITY			COMPRESSOR		CONDENSER	COMB. FAN	UNIT ELECTRICAL					MIN. UNIT DICONNECT SIZE		OPERATING WEIGHT LBS.	REMARKS
				TOTAL MBH	SENSIBLE MBH	EDB °F	EWB °F	AMB °F	SEER @ ARI	(E) CFM	(N) CFM	ESP IN WG	BHP	(E) CFM	(N) CFM	MBH INPUT	MBH OUTPUT	AFUE	RLA	LRA	FLA	FLA	VOLTS	PHASE	HZ	MCA	MOCP	FLA	LRA		
AC 1	CARRIER	48HJD006	5	56.6	43.7	81	64	100	13	1700	1625	0.75	0.77	460	380	72	59.2	82%	17	123	1.5	0.57	208	3	60	28.9	35	28	168	612	SEE BELOW
AC 2	CARRIER	48HJD004	3	34.3	25.2	86	66	100	13	1200	1050	0.51	0.34	540	190	72	59.2	82%	10.3	77	0.7	0.57	208	3	60	18.5	25	18	90	580	SEE BELOW
AC 3	CARRIER	48HJD005	4	47.6	34.5	86	66	100	13	1500	1400	0.50	0.75	600	200	72	59.2	82%	13.5	99	0.7	0.57	208	3	60	22.5	30	22	112	597	SEE BELOW
AC 4	CARRIER	48HJD012	10	103.1	90.8	80	63	100	–	3200	3200	0.7	3.7	700	700	180	147.6	82%	17.3	123	1.4	0.57	208	3	60	52.3	60	55	337	1320	SEE BELOW
AC 5	CARRIER	48HJD012	10	103.1	90.8	80	63	100	–	3200	3200	0.7	3.7	700	700	180	147.6	82%	17.3	123	1.4	0.57	208	3	60	52.3	60	55	337	1320	SEE BELOW
AC 6	CARRIER	48HJD005	4	47.6	34.5	84	65	100	13	1600	1585	0.5	0.75	700	450	72	59.2	82%	13.5	99	0.7	0.57	208	3	60	22.5	30	22	112	597	SEE BELOW
AC 9	CARRIER	48GS036	3	34.3	26.6	86	65	100	10	1200	1200	0.7	2	350	350	60	48.6	80%	10.9	78	1.6	0.8	208	3	60	18.8	25	–	–	400	SEE BELOW

(ORIGINAL DESIGN) PROVIDE:
A) 7 DAY PROGRAMMABLE THERMOSTAT, "HONEYWELL" T7300.
B) ROOF CURB.
C) DISPOSABLE FILTER.
D) ECONOMIZER W/ BAROMETRIC RELIEF.

NEW NOTES
1. REUSED (E)AC UNITS INFORMATION LISTED ABOVE ARE FROM RECORD DRAWINGS.
2. REBALANCE SUPPLY AND OUTSIDE AIR AIRFLOW OF EACH UNIT TO (N) VALUES. CHANGE DRIVES AND SHEAVES WHERE NECESSARY.
3. REPLACE (E)DISPOSABLE FILTER W/(N)MERV 13 FILTERS
4. PROVIDE (N)7-DAY PROGRAMMABLE THERMOSTAT WHERE NECESSARY. LOCATIONS SEE PLAN.

NEW ROOF EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CFM	ESP (IN. WG.)	SONES MAX.	ELECTRICAL				WEIGHT LBS	SERVES	CONTROL	REMARKS
						HP	BHP	VOLTS	PH				
EF 4	GREENHECK	G-097-A	250	0.75	9.9	1/4	0.13	120	1	75	COPY ROOM 105	INTERLOCK W/ (E) AC-1	SEE BELOW
EF 5	GREENHECK	G-099-A	1000	0.75	12.4	1/4	0.25	120	1	75	GARAGE 131	BY WALL SWITCH	SEE BELOW
EF 6	GREENHECK	G-0140-B	1250	0.75	8.4	1/3	0.29	120	1	95	SHOP 134	BY WALL SWITCH	SEE BELOW

NOTES
1. PROVIDE COMPLETE W/ ROOF CURB AND BACKDRAFT DAMPER

APPLICABLE CODES

CODES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, BUILDING STANDARDS:

2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2022 EDITION OF THE CALIFORNIA PLUMBING CODE.
2022 EDITION OF THE CALIFORNIA ENERGY CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE, CR.

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

PLAN CHECK SET

CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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Project Manager:	JT	Plot Date:	Aug 31, 2023 - 2:36pm
Project Drafter:	-	Login:	GYang

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HY Architects Project number: 6014

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365 NEVADA STREET
AUBURN, CA 95603

Project
ANNEX BUILDING ALTERATIONS

Sheet Title
MECHANICAL LEGEND, NOTES AND SCHEDULES

Client Project Number:

Scale: AS NOTED
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

Sheet
M0.01
Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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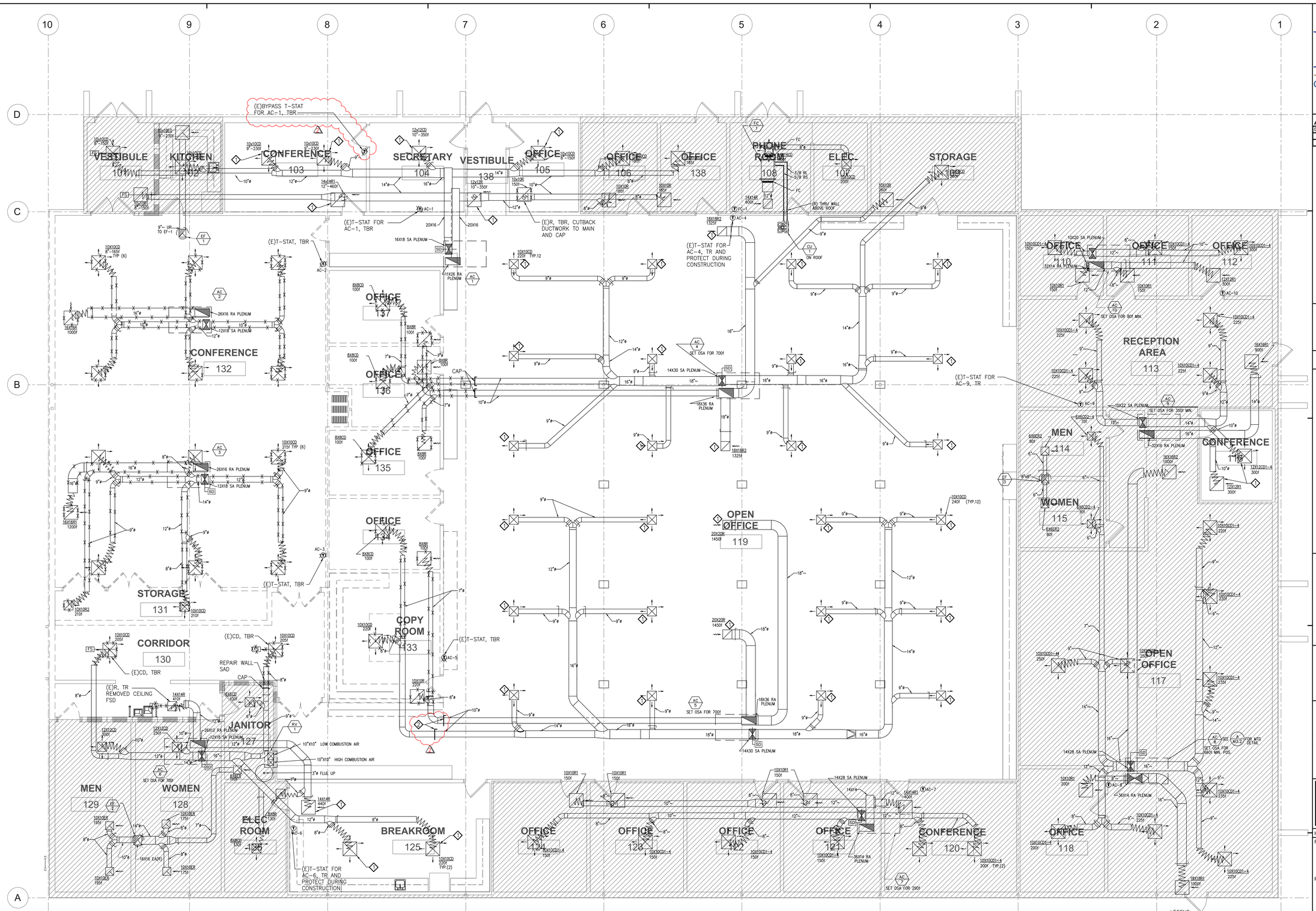

MECHANICAL DEMOLITION FLOOR PLAN

A — SCALE: 3/16" = 1'-0"

KEY NOTES

1. (E)REGISTER, TR
2. (N)TIGHT FITTING DAMPER. SET AT 0 CFM WHEN (E)AC-5 IS OPERATING DURING CONSTRUCTION.

GENERAL NOTES

1. ALL ITEMS SHOWING ON PLAN ARE EXISTING UNLESS NOTED.
2. MECHANICAL SCOPE INCLUDES MODIFICATIONS IN SYSTEMS OF AC-1, AC-2, AC-3, AC-4, AC-5, AC-6 AND AC-9. OTHER SYSTEMS IN SHADED AREAS ARE NOT INCLUDED IN THIS PROJECT.
3. CFM#'s LISTED ON PLAN ARE FROM RECORD DRAWINGS AND ARE FOR ENGINEER REFERENCE ONLY.

LEGEND

AREA NOT IN SCOPE OF WORK EXCEPT WHERE REQUIRED FOR BALANCING.

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Engineer:	JT	Job Number:	23130
Project Manager:	JT	Plot Date:	Aug 31, 2023 - 2:38pm
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AUBURN, CA 95603

Project

ANNEX BUILDING ALTERATIONS

Sheet Title

MECHANICAL OVERALL FIRST FLOOR PLAN - DEMO

Client Project Number:

Scale:	AS NOTED	Sheet	M1.01
Drawn By:	TURLEY		
Checked By:	TURLEY		
Issue Date:	08/25/2023	Sheet	of

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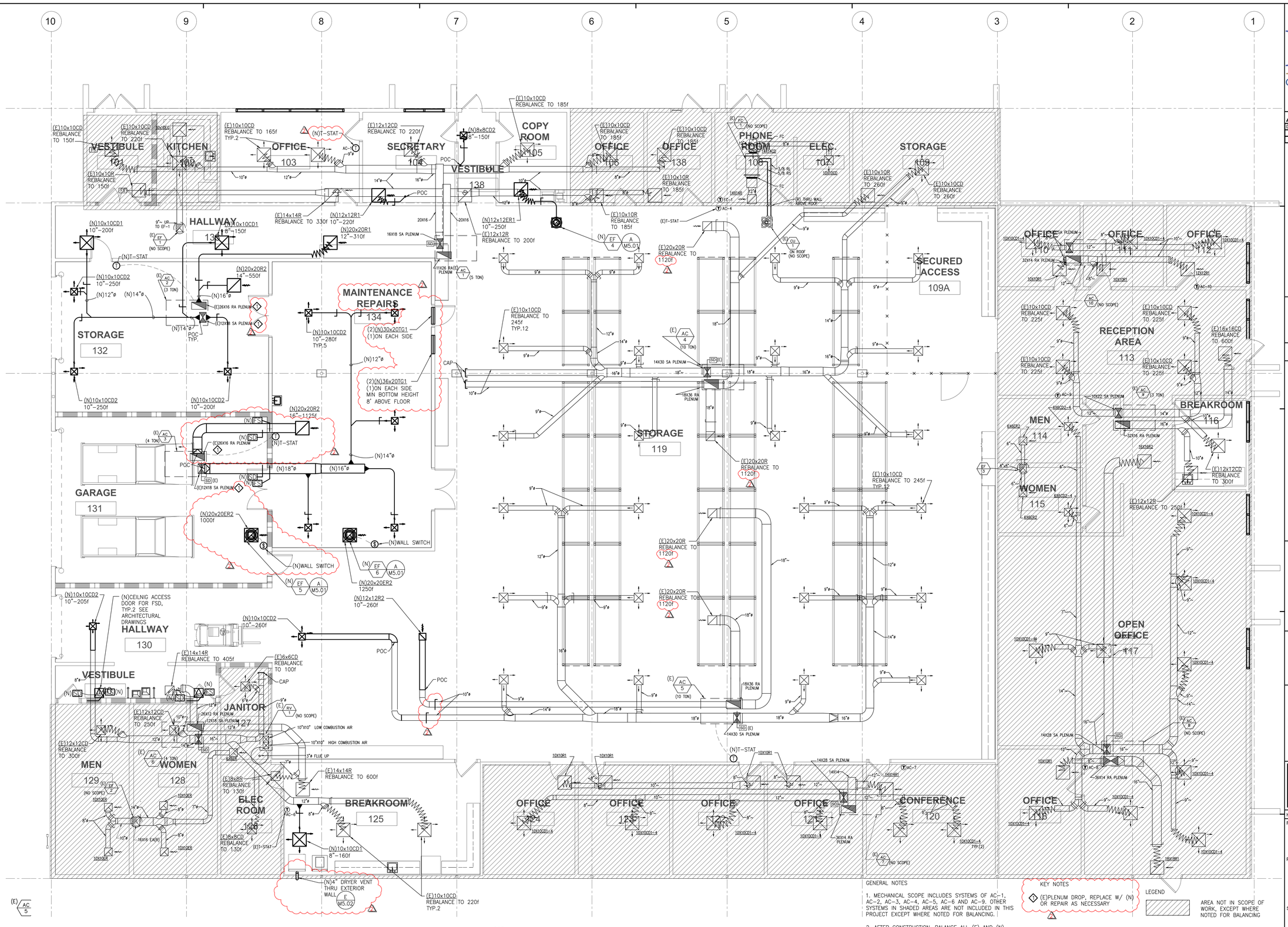
VESTIBULE 101
KITCHEN 102
OFFICE 103
SECRETARY 104
COPY ROOM 105
VESTIBULE 138
OFFICE 106
OFFICE 138
PHONE ROOM 108
ELEC. T02
STORAGE 109
HALLWAY 135
MAINTENANCE REPAIRS 134
STORAGE 132
GARAGE 131
HALLWAY 130
VESTIBULE
JANITOR 127
MEN 129
WOMEN 128
ELEC ROOM 126
BREAKROOM 125
STORAGE 119
SECURED ACCESS 109A
OFFICE 110
OFFICE 111
OFFICE 112
RECEPTION AREA 113
BREAKROOM 116
MEN 114
WOMEN 115
OPEN OFFICE 117
OFFICE 118
OFFICE 124
OFFICE 123
OFFICE 122
OFFICE 121
CONFERENCE 120
(E)10x10CD REBALANCE TO 185f
(E)10x10CD REBALANCE TO 150f
(E)10x10CD REBALANCE TO 220f
(E)10x10CD REBALANCE TO 165f TYP.2
(E)12x12CD REBALANCE TO 220f
(E)10x10R REBALANCE TO 150f
(E)10x10R REBALANCE TO 185f
(E)10x10CD REBALANCE TO 260f
(E)14x14R REBALANCE TO 330f
(E)14x14R REBALANCE TO 405f
(E)12x12R REBALANCE TO 200f
(E)20x20R REBALANCE TO 1120f
(E)10x10CD REBALANCE TO 245f TYP.12
(E)10x10CD REBALANCE TO 225f
(E)16x16CD REBALANCE TO 600f
(E)12x12CD REBALANCE TO 300f
(E)12x12R REBALANCE TO 250f
(E)6x6CD REBALANCE TO 100f
(E)8x8RR REBALANCE TO 130f
(E)14x14R REBALANCE TO 600f
(E)6x8CD REBALANCE TO 130f
(N)10x10CD1 10"–200f
(N)10x10CD1 8"–150f
(N)10x10CD2 10"–250f
(N)10x10CD2 10"–200f
(N)10x10CD2 10"–280f TYP.5
(N)10x10CD2 10"–205f
(N)10x10CD2 10"–260f
(N)20x20R1 12"–310f
(N)20x20R2 14"–550f
(N)20x20R2 16"–1125f
(N)20x20ER2 1000f
(N)20x20ER2 1250f
(N)12x12R1 10"–220f
(N)12x12ER1 10"–250f
(N)12x12R2 10"–260f
(N)10x10CD1 8"–160f
(2)(N)30x20TG1 (1)ON EACH SIDE
(2)(N)36x20TG1 (1)ON EACH SIDE MIN BOTTOM HEIGHT 8" ABOVE FLOOR
(N)T–STAT
(N)WALL SWITCH
(N)CEILNIG ACCESS DOOR FOR FSD, TYP.2 SEE ARCHITECTURAL DRAWINGS
(N)4" DRYER VENT THRU EXTERIOR WALL
(E)10x10CD REBALANCE TO 220f TYP.2
POC
CAP
10"x10" LOW COMBUSTION AIR
10"x10" HIGH COMBUSTION AIR
3"ø FLUE UP
(E)T–STAT
(N)T–STAT
(E) AC 1 (NO SCOPE)
(E) AC 2 (3 TON)
(E) AC 3 (4 TON)
(E) AC 4 (10 TON)
(E) AC 5 (10 TON)
(E) AC 6 (4 TON)
(E) AC 7 (NO SCOPE)
(E) AC 8 (NO SCOPE)
(E) AC 9 (3 TON)
(E) AC 10 (NO SCOPE)
(E) RV 1 (NO SCOPE)
(E) EF 1 (NO SCOPE)
(E) CU 1 ON ROOF (NO SCOPE)
(N) EF 4 A M5.01
(N) EF 5 A M5.01
(N) EF 6 A M5.01
(N) EF 2 E M5.02
(E) EF 2
(E) FC 1 (NO SCOPE)
(N) FC 1
(N) FS
(N) SD
(E) SD
(N) ES
(E) ES
(E)26X16 RA PLENUM
(E)12X18 SA PLENUM
(N)16"ø
(N)18"ø
(N)14"ø
(N)12"ø
16X18 SA PLENUM
11X26 RA(E) PLENUM
(5 TON)
(E)26X12 SA PLENUM
(E)26X12 RA PLENUM
(E)12X18 RA PLENUM
(E)12X18 SA PLENUM
18X36 RA PLENUM
14X30 SA PLENUM
14X28 SA PLENUM
32X14 RA PLENUM
32X16 RA PLENUM
10X32 SA PLENUM
36X14 RA PLENUM
16X16 EA(9)
6X6CD2
6X6ER2
10X10CD1–4
10X10CD1–6
10X10CD2–4
10X10CD2–6
10X10R1
12X12R1
16X16R1
16X16R2
10X10CR
10X10ER
(R) THRU WALL ABOVE ROOF
1/8 SL 2/8 RS
14X14R
14X14SR
14X14R1
14X14R2
12"x24" GRILLE
20X16
16X16
(E)T–STAT
(E)AC–4
(E)AC–7
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(E)AC–10
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(E)AC–44
(E)AC–45
(E)AC–46

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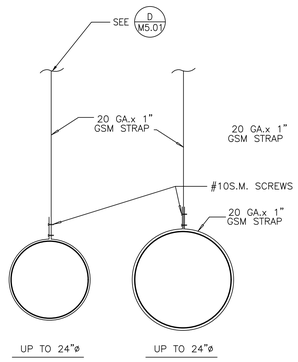
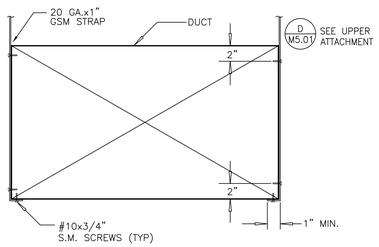
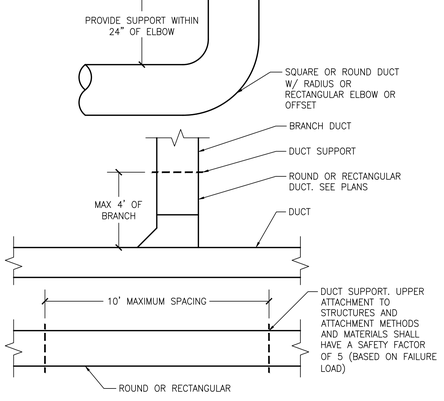




DUCT UP TO 20" WIDE OR LESS THAN 10 LBS/L.F.

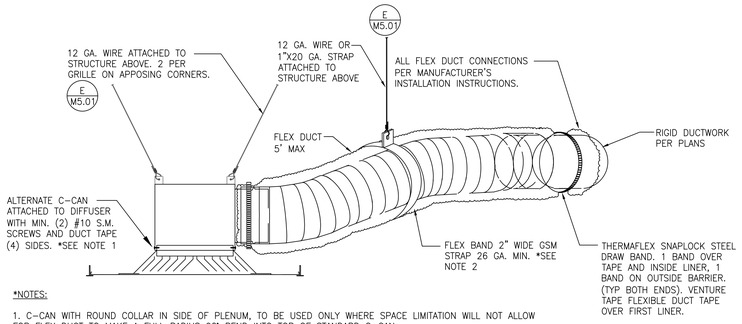
F LOWER DUCT HANGER ATTACHMENT DETAILS

NO SCALE



G DUCT SUPPORT LOCATION PLAN VIEW – TYP ALL DUCTING

NO SCALE

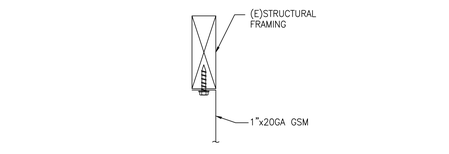


*NOTES:

1. C-CAN WITH ROUND COLLAR IN SIDE OF PLENUM, TO BE USED ONLY WHERE SPACE LIMITATION WILL NOT ALLOW FOR FLEX DUCT TO MAKE A FULL RADIUS 90° BEND INTO TOP OF STANDARD C-CAN.
2. MAXIMUM HANGER SPACING 48" O.C. MAXIMUM SAG BETWEEN HANGERS IS 1/2" PER FOOT, 2" MAXIMUM.
3. SEE UPPER ATTACHMENT DETAILS FOR HANGER WIRE SUPPORT TO STRUCTURE.
4. RIGID DUCTING MAY BE USED IN LIEU OF FLEXIBLE DUCTING.

C ALTERNATE DIFFUSER/GRILLE MOUNTING DETAIL

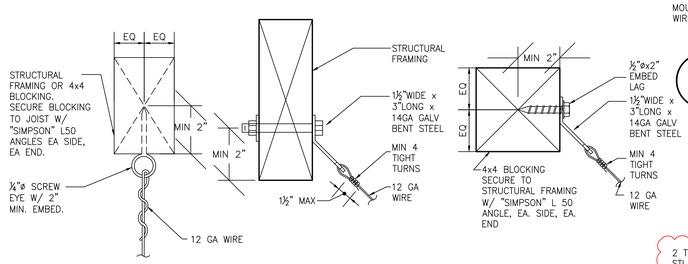
NO SCALE



WOOD FRAMING ATTACHMENT DETAIL

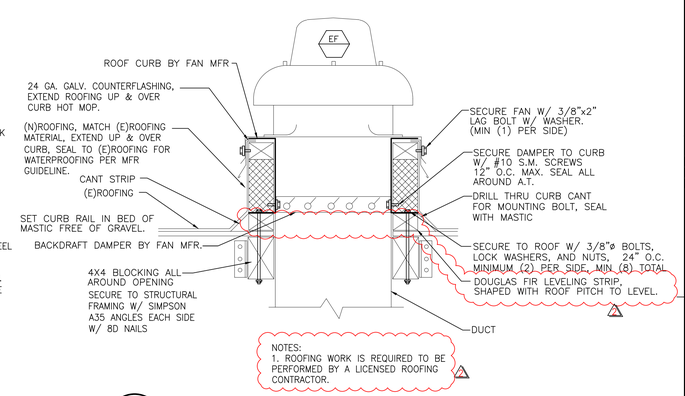
D STRAP UPPER ATTACHMENT DETAIL

NO SCALE



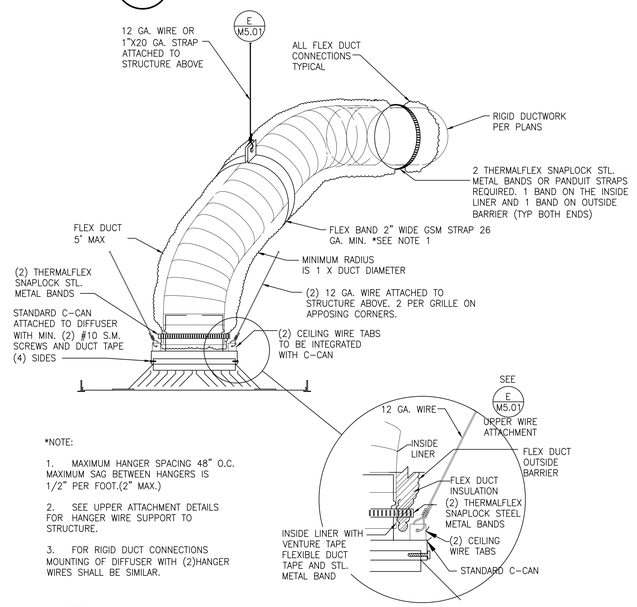
E SPLAY WIRE ATTACHMENT DETAIL

NO SCALE



A ROOF EXHAUST FAN DETAIL

NO SCALE

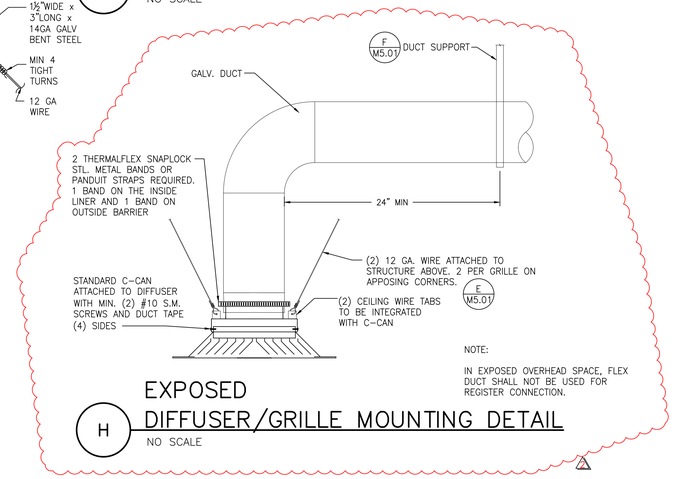


*NOTE:

1. MAXIMUM HANGER SPACING 48" O.C. MAXIMUM SAG BETWEEN HANGERS IS 1/2" PER FOOT.(2" MAX.)
2. SEE UPPER ATTACHMENT DETAILS FOR HANGER WIRE SUPPORT TO STRUCTURE.
3. FOR RIGID DUCT CONNECTIONS MOUNTING OF DIFFUSER WITH (2)HANGER WIRES SHALL BE SIMILAR.

B DIFFUSER/GRILLE MOUNTING DETAIL

NO SCALE



H EXPOSED DIFFUSER/GRILLE MOUNTING DETAIL

NO SCALE

PCOE
GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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Project Engineer:	JT	Job Number:	23130
Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:36pm	
Project Drafter:	-	Login: GYang	

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REGISTERED PROFESSIONAL ENGINEER — JOSEPH W. TURLEY — No. M-028557 Exp. 6/30/2025 — MECHANICAL — STATE OF CALIFORNIA

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HY Architects Project number: 6014

Facility

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365 NEVADA STREET
AUBURN, CA 95603

Project

ANNEX BUILDING ALTERATIONS

Sheet Title

MECHANICAL DETAILS

Client Project Number:

Scale: AS NOTED
Drawn By: TURLEY
Checked By: TURLEY
Issue Date: 08/25/2023

Sheet

M5.01

Sheet of

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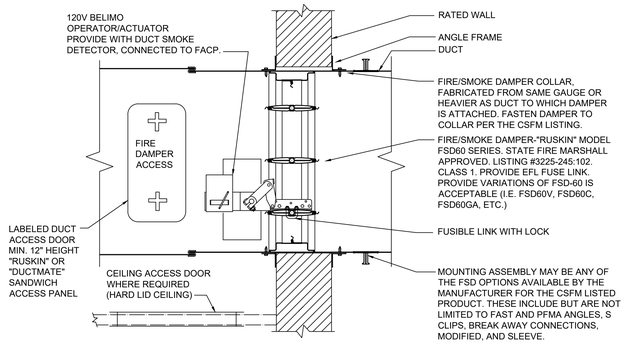
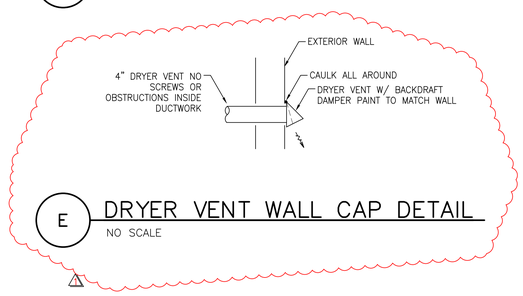


NOTES:

1. ALL FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE TERMS OF THE LISTING
2. FIRE/SMOKE DAMPER DETAIL FOR REFERENCE ONLY.
3. FIRE/SMOKE DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY PER MANUFACTURERS PRINTED INSTRUCTIONS.
4. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
5. DAMPER ACTUATOR & SMOKE DETECTOR SHALL BE INTERLOCKED WITH BUILDING ALARM SYSTEM. SEE ELECTRICAL DRAWINGS.
6. DAMPER SHALL CLOSE UPON LOSS OF POWER.
7. BALANCE CONTRACTOR TO TEST PRESSURE DIFFERENTIAL FOR PROJECTS WITH SAMPLE TUBE SMOKE DETECTORS. PROJECTS WITH TOTAL AREA DETECTION DO NOT REQUIRE PRESSURE VERIFICATION.
8. CLOSURE OF FSD SHALL CAUSE AIR MOVING EQUIPMENT TO SHUT DOWN.
9. ACCESS POINT TO THE FIRE/SMOKE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING NOT LESS THAN 0.5" HIGH LETTERS READING "FIRE SMOKE DAMPER".

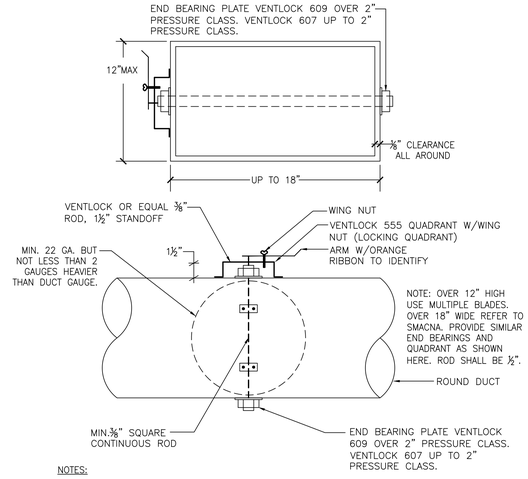
D FIRE SMOKE DAMPER DETAIL

NO SCALE



E DRYER VENT WALL CAP DETAIL

NO SCALE

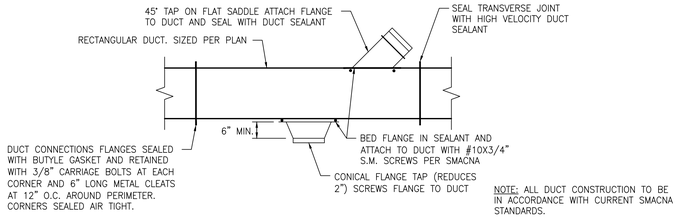


NOTES:

1. SEAL ALL JOINTS W/ A PERMANENT FLEXIBLE, HIGH PRESSURE DUCT SEALANT (UL 181 LISTED).
2. SYSTEM BUILT TO COMPLY W/ SMACNA LATEST REVISION. ITEMS LISTED ABOVE ARE MINIMUM REQUIREMENTS. PROVIDE ALL MATERIAL AND LABOR NECESSARY FOR COMPLETE WORKABLE SYSTEM.
3. SQUARE DAMPERS ARE ALSO REQUIRED AND SHALL MEET LATEST SMACNA STANDARDS. QUADRANTS SHALL HAVE STANDOFFS SIMILAR TO ONES SHOWN FOR ROUND DUCT.

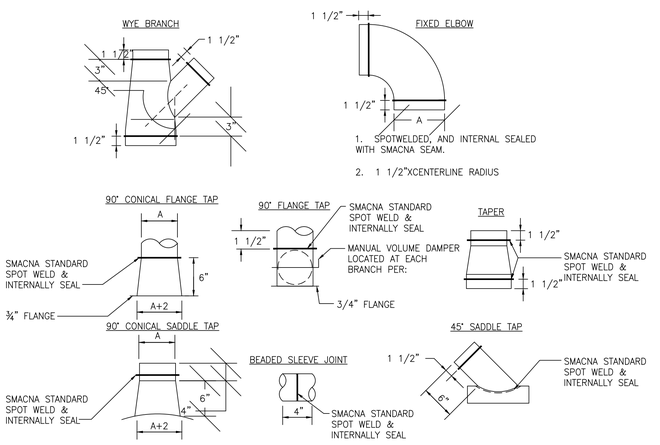
A TYPICAL BALANCE DAMPER

NO SCALE



NOTE: ALL DUCT CONSTRUCTION TO BE IN ACCORDANCE WITH CURRENT SMACNA STANDARDS.

B RECTANGULAR DUCT CONNECTION



C ROUND DUCT FITTINGS

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Engineer:	JT	Job Number:	23130
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HY Architects Project number: 6014

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ANNEX BUILDING ALTERATIONS

Sheet Title

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SECTION 15400 - PLUMBING AND UTILITIES

SECTION 15400 – PLUMBING AND UTILITIES

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK:

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND DIVISION 1 APPLY TO ALL WORK HEREUNDER; ALSO, APPLICABLE PROVISIONS OF SECTION 15010 MECHANICAL WORK – GENERAL REQUIREMENTS.

B. FURNISH AND INSTALL ALL PLUMBING WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. ALSO, ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED NECESSARY TO PROVIDE THE COMPLETE SYSTEM.

1.02 SERVICES:

A. MAKE ALL ARRANGEMENTS FOR THE UTILITIES REQUIRED. PAY ALL COSTS INVOLVED IN OBTAINING THE SERVICES, INCLUDING GAS SERVICE AND METER, WATER METER AND ACCESS BOX, STREET WORK, IN LIEU FEES FOR SEWER, ETC.

B. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COST SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN.

C. DETERMINE STORM AND SANITARY SEWER ELEVATION AT POINT OF CONNECTION BEFORE INSTALLING ANY SEWER PIPING. NOTIFY ARCHITECT IMMEDIATELY IF INDICATED GRADES CANNOT BE MAINTAINED.

1.03 RECORD DRAWINGS:

A PRINT OF THE PLUMBING PLAN SHOWING UNDERGROUND PIPING WILL BE FURNISHED BY THE CONTRACTOR ON WHICH HE SHALL INDICATE THE LOCATIONS OF THE UNDERGROUND INSTALLATIONS AS THE WORK PROGRESSES. THIS SHALL BE RETURNED TO ARCHITECT AT COMPLETION OF JOB.

PART 2 – PRODUCTS

2.01 CLEANOUTS:

A. CLEANOUTS SHALL BE "T" OR "Y" BRANCHES OR TRAP HUBS OF SAME MATERIAL AS PIPE IN WHICH THEY ARE PLACED. CLEANOUTS IN CAST IRON LINES SHALL HAVE CAST IRON BODIES BRASS PLUGS. CLEANOUTS IN FLOORS AND SIDEWALKS SHALL BE JOSAM 56010 OR 56030 FOR CERAMIC TILE FLOORS WITH NICKEL BRONZE COVERS. CLEANOUTS IN VERTICAL LINES SHALL BE JOSAM 58710. FURNISH CLEANOUTS AT ENDS OF BRANCH LINES, AT THE BASE OF VERTICAL LINES, AT CHANGES IN DIRECTION AND WHERE SHOWN OR REQUIRED TO FACILITATE CLEANING. A MAXIMUM SPACING OF 50 FEET SHALL BE PROVIDED IN STRAIGHT RUNS OF HORIZONTAL PIPING. NOTIFY ARCHITECT IMMEDIATELY IF INDICATED GRADES CANNOT BE MAINTAINED.

2.02 PIPE AND FITTINGS INSIDE BUILDING:

A. SEE GENERAL REQUIREMENTS, SECTION 15010, FOR DIELECTRIC FITTINGS AND PIPE PROTECTION. TERMINATE 5'-0" OUTSIDE THE BUILDING LINE OR WHERE MARKED.

B. SOIL, STORM, WASTE AND VENT PIPE UNDERGROUND AND TO 6" ABOVE GROUND: SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASPHALTIC COATED, CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #301 ASTM A-888 OR ASTM A-74 AND SO STAMPED. JOINTS SHALL BE NO-HUB CONFORMING TO CAST IRON SOIL PIPE INSTITUTE STANDARD #310; TY-SEAL OR EQUAL WITH GASKETS CONFORMING TO ASTM C 564 AND ASTM A74. SUSPENDED PIPE WITH NO-HUB JOINTS SHALL HAVE A SWAYBRACE AT 20'-0" MAXIMUM SPACING.

C. WASTE AND VENT PIPE ABOVE GROUND FROM LAVATORIES OR SINKS, DRAINWATER LEADERS AND OVERFLOWS ABOVE THE FLOOR: CAST IRON SOIL PIPE AND FITTINGS WITH NO HUB JOINTS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A-888 OR ASTM A-74 FOR ALL PIPE AND FITTINGS. JOINTS SHALL CONFORM TO CISPI 310 AND MAY BE COUPLINGS WITH CORROSION RESISTANT STAINLESS STEEL SHIELD, CLAMP ASSEMBLY AND ELASTOMERIC SEALING SLEEVE. TYPE 304 DRAINAGE TUBING AND FITTINGS IS ACCEPTABLE WHEN APPROVED. CONDENSATE DRAINS SHALL BE TYPE L OR TYPE DWV HARD COPPER, WITH LONG SWEEP ELBOWS AND CLEANOUT TEES AT CHANGE IN DIRECTION. CONNECT CONDENSATE DRAINS TO AIR CONDITIONING UNITS WITH P-TRAP AND RUN TO AN APPROVED RECEPTOR AND DRY WELL.

D. WATER PIPE (HOT AND COLD WATER): TYPE L COPPER TUBING, HARD TEMPER, WITH WROUGHT COPPER FITTINGS. CAPPED OR PLUGGED OUTLETS SHALL BE SCHEDULE 40 SCREWED BRASS. PROVIDE FULL SOLDER CUP FITTINGS.

E. GAS PIPE: SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS ABOVE GRADE; WELDED BELOW GRADE WITH CLASS 150 WELDING FITTINGS. CONNECT TO EACH ITEM OF GAS-FIRED EQUIPMENT WITH DRIP LEG AND VALVE. PROVIDE FLEX CONNECTION IN APPROVED SIZES WHERE APPLICABLE.

F. ACID WASTE AND VENT PIPE UNDERGROUND TO 6" ABOVEGROUND: OSR FUSEAL, ORION, OR ENFIELD FLAME-RETARDANT POLYPROPYLENE PIPE AND FITTINGS ASSEMBLED WITH FUSION JOINTS. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. PVC IS ALLOWED WHEN ACCEPTABLE BY LOCAL JURISDICTION. OBTAIN APPROVAL FROM LOCAL JURISDICTION.

G. ACID WASTE AND VENT PIPE ABOVEGROUND: IN INACCESSIBLE SPACES OR WITHIN WALLS: OSR FUSEAL, PVDF, ORION, OR ENFIELD FLAME-RETARDANT POLYPROPYLENE PIPE AND FITTINGS ASSEMBLED WITH FUSION JOINTS. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

IN ACCESSIBLE AREAS: FUSEAL ENFIELD "ENFUSION", POLYPROPYLENE DRAINAGE PIPE AND FITTINGS, WITH MECHANICAL JOINTS.

F. WATER SERVICE PIPE: REFER TO 15500. PROVIDE CONCRETE THRUST BLOCK AT EACH CHANGE OF DIRECTION.

G. FURNACE HEAT EXCHANGER CONDENSATE PIPE: POLYETHYLENE FLEXIBLE TUBING ASTM D3350 AND FITTINGS, FLAME RETARDANT. CONNECT TO FURNACE UNIT IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. ENCASE ALL TUBING IN EMT CONDUIT.

2.03 PIPE AND FITTINGS OUTSIDE BUILDINGS:

A. SEE GENERAL REQUIREMENTS SECTION FOR DIELECTRIC FITTINGS AND PIPE CORROSIVE PROTECTION. CONNECT TO BUILDING SERVICES WHERE TERMINATED 5' OUTSIDE FOOTING LINE.

B. SANITARY AND STORM DRAIN PIPE: FIRST QUALITY, EXTRA STRENGTH, BELL AND SPIGOT CLAY SEWER PIPE ASTM #C-700-39 WITH FITTINGS CONFORMING TO ASTM C425-T, J-M PVC SEWER PIPE AND FITTINGS WITH RING-TITE JOINTS, ASTM D3034 SDR 35, OR SERVICE WEIGHT CAST IRON WHERE MARKED.

C. WATER PIPE IN GROUND 2" AND LARGER: SCHEDULE 40 GALVANIZED STEEL. FITTINGS SHALL BE THREADED GALVANIZED MALLEABLE IRON TO SIZES 4" AND SMALLER. J-M RING-TITE PVC, OR EQUAL, CONFORMING TO ASTM D2241-SDR21, CLASS 200 WITH RING-TITE FITTINGS OR DUCTILE IRON MECHANICAL JOINT COUPLINGS MAY BE USED BELOW GROUND AS ALLOWED BY LOCAL CODES OR TYPE K COPPER WITH WROUGHT COPPER FITTINGS AT THE CONTRACTORS OPTION. SIZES 1-1/2" AND SMALLER SHALL BE TYPE K COPPER TUBING, HARD TEMPER, WITH WROUGHT COPPER FITTINGS.

D. WATER SERVICE PIPING ABOVE GRADE:
CLASS 150 BELL AND SPIGOT DUCTILE CAST IRON WATER PIPE CONFORMING TO ANSI A21.6. PIPE SHALL BE LINED WITH A FACTORY-APPLIED 1/16" THICK CEMENT LINING WITH SMOOTH DENSE FINISH. FITTINGS SHALL CONFORM TO ANSI SPECIFICATION A21-10-1952, CLASS 250 PATTERN. FITTINGS SHALL BE LINED. PROVIDE CONCRETE THRUST BLOCK AT EACH CHANGE OF DIRECTION.

E. GAS PIPING ABOVEGROUND TO 18" BELOW GROUND:
SCHEDULE 40 BLACK STEEL WITH BEVELED ENDS FOR WELDING, WITH CLASS 150 WELDING FITTINGS. MITERING TO FORM ELBOWS OR TEES WILL NOT BE PERMITTED, WHERE BRANCH TEE CONNECTIONS OF WELDED PIPING ARE REQUIRED BONNEY "WELDOLET" FITTINGS MAY BE USED, IF THE BRANCH IS ONE-HALF OR THE DIAMETER OF THE MAIN OR LESS. PROVIDE GAS SERVICE SHUT-OFF VALVE ON DOWNSTREAM SIDE OF METER AND AT ENTRY TO EACH BUILDING CONSPICUOUSLY MARKED "GAS" WITH SIGN.

F. GAS PIPING UNDERGROUND:
PLEXCO PE2406 POLYETHYLENE GAS DISTRIBUTION PIPE ASTM D2513 AND ASTM D2683 FITTINGS WITH FUSION WELDED JOINTS. PIPE SHALL BE LABELED FOR NATURAL GAS IN ACCORDANCE WITH CPC.

AT TRANSITION BETWEEN POLYETHYLENE AND STEEL PIPING BELOW GRADE, PROVIDE CENTRAL PLASTICS COMPANY, OR EQUAL, DOUBLE "O" SEAL TRANSITION FITTINGS. PROVIDE MINIMUM OF 30 INCHES OF HORIZONTAL STEEL PIPE AT ALL CONNECTIONS TO ABOVE GROUND PIPING.

2.04 WATER HEATER:

A. CONNECT TO THE HOT AND COLD WATER LINES WITH A GATE VALVE, CHECK VALVE, J.R. SMITH #5020 HYDROTROL, UNION IN THE COLD WATER LINE AND A 3/4" ASME STANDARD PRESSURE AND TEMPERATURE RELIEF VALVE AND UNION HOT WATER LINE AT THE HEATER. RELIEF VALVE DIP TUBE SHALL EXTEND TO WITHIN 2" OF TANK.

B. DIP TUBES, SUPPLY AND HOT WATER NIPPLES, SUPPLY WATER BAFFLES OR HEAT TRAPS USED IN THE CONSTRUCTION OF THE TANK SHALL BE MADE TO WITHSTAND A TEMPERATURE OF 400 DEGREES F. WITHOUT DETERIORATING IN ANY MANNER AND THE OUTSIDE OF THE TANK JACKET SO LABELED.

C. HEATER SHALL HAVE A GLASS LINED STEEL TANK.

D. GAS FIRED: AUTOMATIC GAS-FIRED WATER HEATER, OF THE SIZE AND CAPACITY AS SCHEDULED ON THE DRAWINGS; AGA LABELED; 100% SAFETY SHUT-OFF CONTROLS. PROVIDE DURAVENT OR METALBESTOS FLUE CONNECTION THROUGH THE ROOF AND A TYPE L BREIDENT TOP, FLASH WATERTIGHT AT ROOF.

E. ELECTRIC: UNDERWRITER LABELED AUTOMATIC ELECTRIC WATER HEATER OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS WITH HIGH TEMPERATURE CUTOFF. HEATER SHALL BE ON THE APPROVED LIST OF THE STATE OF CALIFORNIA AND COMPLY WITH TITLE 24 ENERGY REQUIREMENTS.

2.05 FIXTURES AND TRIM:

A. DESIGNATIONS ARE AMERICAN STANDARD UNLESS NOTED. KOHLER, ELJER, ARE ACCEPTABLE IF EQUAL IN UTILITY, QUALITY AND APPEARANCE.

B. P-TRAPS FOR LAVATORIES AND SINKS SHALL BE 17-GAUGE CHROME PLATED BRASS, ADJUSTABLE. PROVIDE OFSTET P-TRAPS FOR HANDICAPPED SINKS IN ORDER TO MAINTAIN ADA CLEARANCES.

C. CONCEALED STOPS SHALL BE 1/2" SPEEDWAY SSR44, LOCK SHIELD VALVES. 3/4" STOPS SHALL BE DCK BROS. #3150-LK. EXPOSED STOPS AND SUPPLIES SHALL BE 1/2" SPEEDWAY #537124 FOR LAVS, 537120L FOR WATER CLOSETS WITH IPS INLET, LOCK SHIELD, LOOSE KEY.

D. INSULATE DOMESTIC WATER AND WASTE PIPING BELOW HANDICAPPED PLUMBING FIXTURES WITH MOLDED PIPE INSULATION FOR ENTIRE EXPOSED REMOVABLE INSULATION COVERS, HANDI LAV-GUARD OR EQUAL. CONFORM WITH ADA REQUIREMENTS.

E. INSTALL VALVE LEVER ON HANDICAP WATER CLOSETS ON WIDE SIDE OF FIXTURE.

F. OPERATING HANDLE OR VALVE FOR HANDICAPPED FIXTURES SHALL OPERATE WITH LESS THAN 5 POUNDS FORCE.

PART 3 – EXECUTION

3.01 SERVICES:

A. MAKE ALL ARRANGEMENTS FOR THE UTILITIES REQUIRED. PAY ALL COSTS INVOLVED IN OBTAINING THE SERVICES INCLUDING GAS SERVICE AND METER, WATER METER, PRESSURE REDUCING VALVE, ACCESS BOXES, STREET WORK.

B. VERIFY THE LOCATION OF ALL SERVICES. NO EXTRA COST SHALL BE ALLOWED IF SERVICES ARE NOT AS SHOWN.

3.02 RECORD DRAWINGS:

A. A PRINT OF THE PLUMBING PLAN SHOWING UNDERGROUND PIPING WILL BE FURNISHED TO THE CONTRACTOR ON WHICH HE SHALL INDICATE THE LOCATIONS OF THE UNDERGROUND INSTALLATIONS AS THE WORK PROGRESSES. THIS SHALL BE RETURNED TO THE ARCHITECT AT COMPLETION OF JOB.

3.03 DISINFECTION:

A. CLEAN AND DISINFECT: ALL HOT AND COLD WATER SYSTEMS CONNECTED TO DOMESTIC WATER SYSTEMS IN ACCORDANCE WITH AWWA STANDARD C651-92 AND AS REQUIRED BY THE LOCAL BUILDING AND HEALTH DEPARTMENT CODES. THIS PROCEDURE SHALL BE PERFORMED BY A WATER TREATMENT COMPANY THAT HAS A CURRENT CAL-EPA LICENSE TO APPLY DISINFECTANT CHLORINE IN POTABLE WATER.

B. PRELIMINARY PREPARATION: PROVIDE A 1" SERVICE COCK OR VALVE CONNECTED TO SYSTEM AT A POINT WITHIN 2'-0" OF ITS JUNCTION WITH WATER SUPPLY LINE AND INSTALL DISINFECTING AGENT INTO SYSTEM THROUGH THIS COCK. WHEN PROJECT IS COMPLETE, WITH ALL FIXTURES CONNECTED AND OPERABLE AND READY FOR USE AND WHEN, BY TEST, SYSTEM IS PROVED TO BE FREE FROM LEAKS, IT SHALL BE THOROUGHLY FLUSHED BY FULLY OPENING EVERY OUTLET AND, WHEN EVERY FIXTURE UNTIL CLEAR WATER FLOWS FROM ALL OF THEM.

C. DISINFECTING AGENT: THE CHLORINE SHALL BE A REGISTERED PRODUCT WITH CAL-EPA FOR USE IN CALIFORNIA IN POTABLE WATER LINES, SUCH AS BACTICIDE, CAL-EPA REGISTRATION NO. 37962-20001.

D. DISINFECTING PROCEDURE: CHARGE SYSTEM AND PUMP, 100 PSI RATING, MINIMUM TO THE 1" SERVICE COCK OR VALVE.

1. WITH SYSTEM COMPLETELY FULL OF WATER AND SUPPLY VALVE OPEN, ADJUST FEED VALVE OF SYSTEM SO THAT A TRICKLE OF WATER FLOWS FROM EACH.

2. INJECT DISINFECTANT UNTIL AN ORTHOTOLIDIN TEST AT EACH OUTLET SHOWS A CHLORINE RESIDUAL CONCENTRATION OF AT LEAST 50 PARTS PER MILLION (P.P.M.).

3. CLOSE ALL OUTLETS AND VALVES, INCLUDING VALVE CONNECTING TO PUBLIC WATER SUPPLY LINE AND 1" SERVICE COCK ON SOLUTION INJECTION CONNECTION. MAINTAIN CONDITION FOR 24 HOURS AND CHLORINE RESIDUAL OF 50 P.P.M. SHOULD BE RETAINED IN SYSTEM FOR THIS 24 HOUR PERIOD. IF, AFTER 24 HOURS, ORTHOTOLIDIN TESTS INDICATE THAT CHLORINE RESIDUAL CONCENTRATION HAS DECREASED BELOW 50 P.P.M. THEN DISINFECTION PROCEDURE MUST BE REPEATED UNTIL AN APPROVED RESULT IS OBTAINED.

4. WHEN THE ABOVE PROCEDURE HAS BEEN COMPLETED, FLUSH OUT ENTIRE SYSTEM WITH FRESH WATER UNTIL AN ORTHOTOLIDIN TEST AT ANY OUTLET SHOWS A RESIDUAL OF NOT MORE THAN 0.5 P.P.M.

5. WARNING SIGNS SHALL BE PROVIDED AT ALL OUTLETS WHILE CHLORINATING THE SYSTEM.

3.04 PIPING CONNECTION:

A MINIMUM GRADE ON DRAIN, VENT, AND WASTE PIPING SHALL BE 1/4" PER FOOT UNLESS NOTED, OR LATER APPROVED. VENT PIPING SHALL BE CHARGED TO A SOIL OR WASTE LINE.

B. CONNECTIONS FROM STACKS OR HORIZONTAL WASTES TO WALL OR FLOOR FINISH FOR WASTES FROM LAVATORIES, URINALS, SINKS, AND DRINKING FOUNTAINS AND CONNECTION BETWEEN FLOOR DRAINS AND TRAPS SHALL BE IPS 85% RED BRASS PIPE.

C. SPECIAL EQUIPMENT:

1. CERTAIN ITEMS OF EQUIPMENT WILL BE FURNISHED AND SET IN PLACE UNDER A DIFFERENT SECTION OF SPECIFICATIONS; FURNISH ALL SERVICES AND SINK FITTINGS AND WASTE TRAP IF REQUIRED.

2. MAKE COLD AND HOT WATER, DRAIN, VENT, AND OTHER REQUIRED CONNECTIONS TO ALL THE EQUIPMENT. EACH WATER CONNECTION SHALL HAVE A VALVE AND UNION IN THE LINE, UNLESS NOTED OTHERWISE.

3. SIZES AND LOCATIONS OF CONNECTION TO SPECIAL EQUIPMENT ARE SHOWN FOR EQUIPMENT MADE BY CERTAIN MANUFACTURERS. SECURE ROUGH-IN DATA FROM THE MANUFACTURER FOR THE EQUIPMENT TO BE INSTALLED AND ROUGH-IN ACCORDINGLY. FINAL CONNECTIONS SHALL CONFORM TO THE MANUFACTURER'S DIRECTIONS FOR THE EQUIPMENT FURNISHED AT NOT EXTRA COST TO THE OWNER.

D. TRAP PRIMERS: PROVIDE A TRAP PRIMER FOR EACH INDIRECT WASTE RECEPTACLE NOT RECEIVING DISCHARGE FROM A PLUMBING FIXTURE.

3.05 CLEANOUTS:

A. FURNISH CLEANOUTS AT ENDS OF BRANCH LINES, AT THE BASE OF VERTICAL LINES, AT CHANGES IN DIRECTION AND WHERE SHOWN OR REQUIRED TO FACILITATE CLEANING. A MAXIMUM SPACING OF 50 FEET INSIDE BUILDINGS, 100 FEET OUTSIDE, ALSO IN WASTE DROP FROM EACH SINK. CLEANOUT TO GRADE SHALL BE SET IN A 14" x 14" x 6" DEEP CONCRETE PAD, TROWEL SMOOTH AND EDGE; SET FLUSH WITH FINISHED GRADE. CLEANOUTS TO BE FULL SIZE OF LINE UP TO A MAXIMUM OF 6". CLEANOUTS SHALL CLEAR ALL OBSTRUCTIONS BY 18" MINIMUM. FURNISH TO OWNER ONE WRENCH FOR EACH SIZE AND TYPE OF CLEANOUT USED. PERMANENTLY IDENTIFY EXTERIOR CLEANOUTS: SS FOR SANITARY SEWER, SD FOR STORM DRAIN.

3.06 FIXTURES AND TRIM:

A. INSTALL ALL FIXTURES AT LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS. PROVIDE PROPER BACKING FOR HANGING BRACKETS AND HOLD DOWN SCREWS 2 X 6 BLOCKING SECURED WITH U.U.H. CLIPS OR CARRIERS AS SPECIFIED. GROUT VOIDS BETWEEN ALL FIXTURES AND ADJACENT SURFACES WITH CLEAR DOW SILICON SEALANT. INSTALL HOLD DOWN SCREWS AND WALL HUNG LAVATORIES.

B. ALL EXPOSED PIPING, BIBBBS, STOPS, FAUCETS, TRAPS, FLUSH VALVES AND OTHER TRIM FOR ALL FIXTURES SHALL BE CHROME PLATED INCLUDING PIPING INSIDE SINK CABINETS. PROVIDE HOSES RIM FOR ALL COUNTER TYPE SINKS AND LAVATORIES. ENAMELED WARE SHALL BE CAST IRON WITH ACID RESISTING ENAMEL.

C. PROVIDE 85% OR IPS RED BRASS PIPE, SECURELY ANCHORED TO BUILDING CONSTRUCTION FOR EACH CONNECTION TO FAUCETS, FLUSH VALVES, STOPS, HOSE BIBBS, ETC.; EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON WATER SUPPLY LINES TO PERMIT REPAIRING WITHOUT SHUTTING OFF WATER MAINS.

D. INSTALLATION FOR HANDICAP ACCESSIBLE FIXTURES SHALL CONFORM TO CHAPTER 16 CALIFORNIA PLUMBING CODE, SECTION 1115 B CALIFORNIA BUILDING CODE, AND ADA REQUIREMENTS.

E. PROVIDE WATER BRANCHES AT SINGLE PLUMBING FIXTURES WITH AIR CHAMBERS AT 12" LONG AND OF SAME DIAMETER PIPE AS BRANCHES. WHERE TWO OR MORE FIXTURES ARE LOCATED IN A ROW OR BATTER, CONTINUE WATER SUPPLY HEADER EITHER FULL SIZE OF BRANCH LINE WITH AIR CHAMBER ONE PIPE SIZE LARGER THAN HEADER AND A MINIMUM 24" LONG INSTALLED ON END OF HEADER OR PLACE AIR CHAMBER AT EACH FIXTURE, OR PROVIDE WATER HAMMER ARRESTOR.

F. GAS PIPING BELOW COVERED WALKS AND WHERE NOTED ON DRAWINGS SHALL BE INSTALLED IN WATERTIGHT SCHEDULE 40 PVC CONDUIT. CONDUIT SHALL BE VENTED WHERE NOTED.

G. INSTALL RAINWATER LEADERS, OVERFLOW DRAINS AND ROOF DRAINS IN ACCORDANCE WITH THE ARCHITECTURAL DETAILS.

H. PROVIDE CHRISTY, BROOKS, OR EQUAL, CONCRETE PIT, WITH SIZE AS NOTED ON DRAWINGS, OR AS REQUIRED, FOR WATER METER AND DETECTOR CHECK VALVE.

I. PROVIDE SHUT OFF VALVE ON EACH GAS BRANCH LINE AT GAS METER.

J. PROVIDE EXPANSION JOINT IN GAS PIPING AT BUILDING SEISMIC JOINTS.

END OF SECTION

SECTION 15500 - AUTOMATIC FIRE PROTECTION SYSTEM

SECTION 15500 – AUTOMATIC FIRE PROTECTION SYSTEM

CONDITIONS OF THE CONTRACT AND DIVISION 1 APPLY TO THIS SECTION.

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS:

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND DIVISION 1 APPLY TO ALL WORK HEREUNDER; ALSO, APPLICABLE PROVISIONS OF SECTION 15010 MECHANICAL WORK – GENERAL REQUIREMENTS.

B. FURNISH AND INSTALL ALL PLUMBING WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. ALSO, ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED NECESSARY TO PROVIDE THE COMPLETE SYSTEM.

1.02 SCOPE:

A. THE CONTRACTOR SHALL FURNISH ALL LABOR, DESIGN DRAWINGS, CALCULATIONS, MATERIALS, TOOLS AND EQUIPMENT TO INSTALL THE WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM AS HEREINAFTER DESCRIBED, READY FOR SERVICE TO THE ENTIRE SATISFACTION OF THE ARCHITECT. SYSTEM SHALL BE DESIGNED FOR THE OCCUPANCY AS DETERMINED BY NFPA. A HYDRAULIC CALCULATED SYSTEM WILL BE ACCEPTABLE.

B. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE FOR COMPLETE AND OPERATING FIRE PROTECTION AUTOMATIC SPRINKLER SYSTEM IN FULL COMPLIANCE WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET NO. 13, LATEST EDITION, AND CBC STANDARD 38-1. THE WORK SHALL ALSO BE IN ACCORDANCE WITH ALL LOCAL OR STATE REQUIREMENTS WHICH APPLY.

1.03 DRAWINGS:

A. ALL AREAS ABOVE AND BELOW THE FINISHED CEILINGS, EXTERIOR EXPOSURE, STAIRWAYS, ROOMS, AREAWAYS, ENTRY, ETC., AND OTHER AREAS REQUIRING SPRINKLERS SHALL BE ADEQUATELY PROTECTED. THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL ARCHITECTURAL AND OTHER DRAWINGS AS REQUIRED TO SATISFY THIS REQUIREMENT.

B. THE NUMBER OF HEADS INDICATED ON THE DRAWINGS SHALL NOT BE REDUCED. PROVIDE ANY ADDITIONAL HEADS REQUIRED TO OBTAIN APPROVALS.

1.04 APPLICABLE SPECIFICATIONS: THE FOLLOWING PUBLICATIONS FOR A PART OF THIS SPECIFICATION:

A. GENERAL: PER REQUIREMENTS IN 15010.

B. UNDERWRITERS' LABORATORIES, INC., (UL) PUBLICATIONS: LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS.

C. NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLETS: STANDARD OF THE NFPA FOR THE INSTALLATION OF SPRINKLER EQUIPMENT.

1.05 SUPERVISION:

A. KEEP A COMPETENT SUPERINTENDENT ON THE JOB WHO SHALL COORDINATE THE ACTIVITIES OF THE CRAFTS AND MAINTAIN THE PROGRESS OF THE WORK TO THE SATISFACTION OF THE ARCHITECT.

1.06 SITE CONDITIONS:

A. VERIFY ALL DIMENSIONS AT THE BUILDING SITE AND CHECK EXISTING CONDITIONS BEFORE BEGINNING WORK. MAKE CHANGES WHICH ARE NECESSARY TO INSTALL THE WORK IN HARMONY WITH OTHER CRAFTS, THEY SHALL BE FIRST APPROVED BY THE ARCHITECT.

1.07 REGULATIONS:

A. ALL WORK SHALL BE INSTALLED IN STRICT CONFORMITY WITH CALIFORNIA BUILDING CODE (CBC), CALIFORNIA PLUMBING CODE (CPC), AND CALIFORNIA ELECTRIC CODES (CEC), ALL INDUSTRIAL SAFETY ORDERS, CALIFORNIA MECHANICAL CODE (CMC), NATIONAL FIRE CODE (NFC), AND ANY OTHER LAWS AND REGULATIONS OF LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION.

1.08 FEES AND PERMITS:

A. TAKE OUT ALL PERMITS AND PAY ALL FEES AND CHARGES OF ANY KIND REQUIRED IN CONNECTION WITH THIS WORK.

1.09 TEMPORARY CONNECTIONS:

A. ALL TEMPORARY CONNECTIONS REQUIRED TO MAINTAIN SERVICES DURING THE COURSE OF THIS CONTRACT SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. THE NORMAL FUNCTION OF THE BUILDING MUST NOT BE INTERRUPTED; NOTIFY THE OWNER SEVEN DAYS IN ADVANCE BEFORE DISTURBING ANY SERVICE.

1.10 QUALITY ASSURANCE:

A. QUALIFICATIONS OF INSTALLER: UNLESS THE CONTRACTOR HAS SUBSTANTIAL PREVIOUS EXPERIENCE WITH THE CLASS OF WORK, THE SYSTEM SHALL BE INSTALLED BY A SUBCONTRACTOR WHO SPECIALIZES IN THIS WORK.

1.11 SUBMITTALS:

A. SHOP DRAWINGS AND PRODUCT DATA:

1. SUBMIT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 01340.

2. SUBMIT SHOP DRAWINGS SHOWING THE LOCATION OF ALL SPRINKLER HEADS, PIPING, BRACING, HANGERS AND ANCHORS AND ALL NECESSARY WORKING DRAWINGS SHOWING COMPLETE DETAILS OF PIPING WITHIN THE BUILDING. DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY WORK. THE DRAWINGS SHALL BE REVIEWED, STAMPED AND APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL AND/OR THE AUTHORITY HAVING JURISDICTION AFTER REVIEW BY THE ENGINEER.

B. OPERATIONS AND MAINTENANCE DATA:

1. SUBMIT IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 1.

C. INSTALLATION DRAWINGS: THE CONTRACTOR SHALL PREPARE INSTALLATION DRAWINGS FOR ALL PIPING AND SYSTEMS, AND SHALL COORDINATE THEM WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND WITH DRAWINGS FOR WORK OF OTHER TRADES. THE CONTRACTOR SHALL OBTAIN TRANSPARENCIES OF REFLECTED CEILING PLANS FROM THE ENGINEER AND SHALL SHOW ALL HEAD LOCATIONS THEREON, AND SHALL SUBMIT THESE DRAWINGS WITH SPRINKLER LAYOUT DRAWINGS, TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL THEN SUBMIT THESE DRAWINGS TO THE AUTHORITY HAVING JURISDICTION, AND OBTAIN THEIR APPROVALS. AFTER SUCH APPROVALS ARE OBTAINED, FURNISH FOUR SETS OF APPROVED INSTALLATION DRAWINGS TO THE ENGINEER.

PART 2 – PRODUCTS

2.01 GENERAL:

A. THE EQUIPMENT TO BE FURNISHED UNDER THIS SPECIFICATION SHALL BE ESSENTIALLY THE STANDARD PRODUCT OF THE MANUFACTURER. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF EQUIPMENT ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF A SINGLE MANUFACTURER. THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL ARCHITECTURAL AND OTHER DRAWINGS AS REQUIRED TO SATISFY THIS REQUIREMENT.

2.02 MATERIALS:

A. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SPECIFIED, OR DIRECTED BY THE ARCHITECT, ALL MATERIALS AND EQUIPMENT USED IN THE INSTALLATION OF THE SPRINKLER SYSTEMS SHALL BE LISTED AS APPROVED BY THE UL AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER. THE FOLLOWING MATERIALS SHALL CONFORM TO THE MODIFICATIONS SPECIFICATIONS AND OTHER REQUIREMENTS SPECIFIED BELOW. ALL MATERIALS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.

B. WET SPRINKLER PIPE ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A-53, PIPE WITH UL APPROVED CAST IRON SCREWED SPRINKLER FITTINGS. UL APPROVED GROOVED FITTINGS AND COUPLINGS AT THE CONTRACTOR'S OPTION.

C. PIPE BELOW GRADE TO 12" ABOVE SHALL BE J.M BLUE BRUT PVC CLASS 100, C900, PIPE AND FITTINGS, UL LABELED, MAY BE USED. UNDERGROUND, OUTSIDE THE BUILDING IF ALLOWED BY LOCAL CODES. PIPING BELOW THE BUILDING TO 4" ABOVE FINISHED FLOOR (WITHIN FIVE FEE OUTSIDE THE BUILDING FOOTPRINT) SHALL BE DUCTILE IRON PIPE WITH MECHANICAL RESTRAINT JOINTS IN ACCORDANCE WITH THE LOCAL JURISDICTION.

D. SPRINKLER HEADS:

1. IN GENERAL: PENDANT OR UPRIGHT HEADS, EXPOSED PATTERN ON EXPOSED PIPING; FUSING ELEMENT TEMPERATURE RATINGS PER NFPA PAMPHLET NO. 13 REQUIREMENTS.

2. IN AREAS WITH SUSPENDED CEILINGS: SEMI-RECESSED STYLE HEADS, WITH INTERNAL ESCUTCHEON, GEM "AQUARIUS", OR EQUAL; C.P. FINISH; FUSING ELEMENT TEMPERATURE RATINGS PER NFPA 13 REQUIREMENTS.

3. SIDEWALL: HORIZONTAL SIDE WALL; STAIN-CHROME FINISH WITH CHROME ESCUTCHEON; VIKING MODEL C4, CENTRAL MODEL H OR HF.

4. WIRE GUARDS: FACTORY-FABRICATED; CLAMP-ON TYPE.

5. HEADS IN EQUIPMENT ROOMS, STORAGE ROOMS AND ELECTRICAL ROOMS SHALL BE FURNISHED WITH CHROME-PLATED WIRE GUARDS. HEADS IN UNFINISHED SPACES SUCH AS MECHANICAL ROOMS MAY BE BRONZE FINISH.

6. SPARE HEADS: THE CONTRACTOR SHALL FURNISH SPARE HEADS EQUAL TO ONE PERCENT OF THE TOTAL NUMBER OF HEADS INSTALLED UNDER CONTRACT, BUT NOT LESS THAN 12. THE HEADS SHALL BE INSTALLED IN A SUITABLE CABINET AND SHALL BE REPRESENTATIVE OF, AND IN PROPORTION TO, THE NUMBER OF EACH TYPE AND TEMPERATURE RATING HEAD INSTALLED. NOT LESS THAN ONE OF EACH. IN ADDITION TO THE SPARE HEADS, THE CONTRACTOR SHALL FURNISH NOT LESS THAN TWO SPECI

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

PLUMBING FIXTURE SCHEDULE

S-1	SINK-1:	ELKAY MODEL ESSB2520C, WALL SERVICE SINK, 304 STAINLESS STEEL, LK173 CI PTRAP, LK940BR03L2H FAUCET W/VACUUM BREAKER, 25" LENGTHX19½" WIDTH OVERALL.
S-2	SINK-2 (KITCHEN SINK):	"JUST" MODEL US-ADA-1818-A, 18"x18"x5½" DEEP. COUNTER MOUNTED, SELF RIMMING,18GA STAINLESS STEEL SINK, PROVIDE WITH GRID DRAIN. "CHICAGO FAUCET" MODEL 786-GN8AE25ABCP. GOOSENECK, DECK MOUNTED, WRIST BLADE MANUAL FAUCET. 1.5GPM NON-AERATING LAMINAR FLOW. PROVIDE SUPPLIES, STOPS AND 17GA CHROME PLATED P-TRAP. PROVIDE "BADGER" GABAGE DISPOSAL, ½ HP, 120V POWER CONNECTION. WATER AND DRAIN PIPING CONNECT TO ADJACENT DISHWASHER.
WB-1	WASHER BOX-1:	"GUY GRAY" MODEL B200, GALVANIZED BODY, 2" DRAIN CONNECTION, ½"HW AND CW CONNECTION W/ STOP VALVES, PROVIDE P-TRAP. INSTALL ON WALL PER MANUFACTURE'S REQUIREMENTS.

PLUMBING ABBREVIATIONS

ABV	ABOVE
ABC, OH	ABOVE CEILING, OVERHEAD
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIP	ABANDON IN PLACE
BR	BRANCH
CL	CENTERLINE
CO	CLEANOUT
CW	COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA, ø	DIAMETER
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FSR	FIRE SPRINKLER RISER
GCO	GRADE CLEANOUT
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
(N) (E)	NEW, EXISTING
NIC	NOT IN CONTRACT
POC	POINT OF CONNECTION
P, TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
RI	ROUGH-IN
RO	RUN-OUT
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TP	TRAP PRIMER
UG, UF	UNDERGROUND, UNDERFLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
WT	WATERTIGHT
WCO	WALL CLEANOUT

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24,

2022 EDITION OF THE CALIFORNIA BUILDING CODE.
2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2022 EDITION OF THE CALIFORNIA FIRE CODE.
2022 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2022 EDITION OF THE CALIFORNIA PLUMBING CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE NAME	SYMBOL	VENT	WASTE		COLD WATER		HOT WATER	
			BR	RI	BR	RI	BR	RI
SINK (S-1)	S	2"	3"	3"	¾"	¾"	¾"	¾"
SINK (S-2)	S	1½"	2"	2"	¾"	½"	¾"	½"
WASHER BOX	WB	1½"	2"	2"	¾"	¾"	¾"	¾"

PLUMBING LEGEND

CW	COLD WATER LINE
CD	CONDENSATE DRAIN
F	FIRE SERVICE LINE
G	GAS
HW	HOT WATER LINE
HWR	HOT WATER RETURN
LPG	LIQUID PETROLEUM GAS
OFL	OVERFLOW
X X X X X	PIPING OR EQUIPMENT TO BE REMOVED
RWL	RAINWATER LEADER
	RISE OR DROP IN DIRECTION OF FLOW
	SANITARY SOIL OR WASTE LINE
SCD	SECONDARY CONDENSATE DRAIN LINE
TP	TRAP PRIMER LINE
	VENT
	CLEANOUT & WALL CLEANOUT
	FIRE DEPARTMENT CONNECTION
	FLOOR/ GRADE CLEAN OUT
	FLOOR DRAIN
	HOSE BIBB/ WALL HYDRANT
	TRAP
	TRAP PRIMER
	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	FLEXIBLE CONNECTION
	GATE VALVE
	SHUT OFF COCK
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
	REDUCER
	PRESSURE & TEMPERATURE RELIEF VALVE
	SHUT OFF VALVE
	STRAINER
	STRAINER & DRAIN VALVE WITH HOSE FITTING
	SOLENOID VALVE
	THERMOMETER
	UNION
MA	MEDICAL AIR
PA	PLANT COMPRESSED AIR
N	NITROGEN LINE
ND	NITROUS OXIDE
OX	OXYGEN LINE
VV	VACUUM LINE

COMPLIANCE NOTES

MECHANICAL AND PLUMBING EQUIPMENT SHALL CONFORM TO THE FOLLOWING AS STATED IN THE ENERGY EFFICIENCY STANDARDS, 2022.

1. BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS:
   - 110.1 APPLIANCES REGULATED BY THE APPLIANCE EFFICIENCY STANDARDS:
   - 110.2 HVAC EQUIPMENT EFFICIENCY AND PACKAGED CONTROLS:
   - 110.3 SERVICE WATER HEATING EFFICIENCY AND CONTROLS:
   - 110.4 POOL AND SPA HEATING EFFICIENCY AND CONTROLS:
   - 110.5 RESTRICTIONS ON PILOT LIGHTS:
2. BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTIONS.
   - 120.1 REQUIREMENTS FOR VENTILATION:
   - 120.2 REQUIRED CONTROLS FOR HVAC SYSTEMS:
     - 102.2 (H) DEMAND SHED CONTROLS.
     - 120.2 (I) ECONOMIZER FAULT DETECTION & DIAGNOSTIC.
   - 120.3 REQUIREMENTS FOR PIPE INSULATION:
   - 120.4 REQUIREMENTS FOR DUCT INSULATION:
   - 120.5 REQUIREMENTS FOR MECHANICAL SYSTEMS
   - 120.8 BUILDING COMMISSIONING
   - 120.9 REQUIREMENTS FOR COMMERCIAL BOILERS

PIPING MATERIAL SCHEDULE

SYSTEM	LOCATION	MATERIAL	TEST METHOD	MATERIAL	TEST METHOD
WASTE & VENT	ABOVE OR BELOW SLAB	STANDARD WEIGHT COATED CAST IRON PIPE	CISPI 301, ASTM A888	PLAIN END NO-HUB WITH NEOPRENE GASKET & STAINLESS STEEL COUPLING	ASTM A74, ASTM C564
WASTE & VENT	BELOW SLAB	PVC-DWV PIPE, SCHEDULE 40 THICKNESS	ASTM D1784 ASTM D1785	SOLVENT WELD	ASTM D2665 ASTM D2564
DOMESTIC CW & HW	ABOVE SLAB	TYPE "L" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 95/5 TIN-SILVER SOLDERED JOINTS	ANSI B16.22
CONDENSATE DRAIN	ABOVE SLAB	TYPE "M" HARD TEMPER SEAMLESS COPPER	ASTM B88	WROUGHT COPPER FITTINGS WITH 95/5 TIN-SILVER SOLDERED JOINTS	ANSI B16.22
NATURAL GAS	ABOVE SLAB	SCHEDULE 40 BLACK STEEL PIPE	ASTM A120	150 PSI BLACK MALLEABLE IRON SCREWED FITTINGS	ANSI B16.3 ANSI B16.8

NOTES:
1. PRIME AND PAINT ALL GAS PIPING (BY OTHERS).
2. ALL CAST IRON PIPE SHALL BE AMERICAN MADE AND TESTED, NO IMPORTED PIPE IS ACCEPTABLE. TYLER PIPE, AB&I FOUNDRY OR CHARLOTTE PIPE.
3. COPPER FITTINGS ALLOWED: PROPRESS BY VIEGA, ASME B16.51, IAPMO LISTED, LEAD FREE.
4. GAS PIPE FITTINGS ALLOWED: MEGAPRESS G, ASME B31, IAPMO LISTED. FOR USE WITH CARBON STEEL.

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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CONSTRUCTION DOCUMENTS

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HY Architects Project number: 6014

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Project

ANNEX BUILDING ALTERATIONS

Sheet Title

PLUMBING LEGEND, NOTES AND SCHEDULES

Client Project Number:

Scale:	AS NOTED
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **P0.01**

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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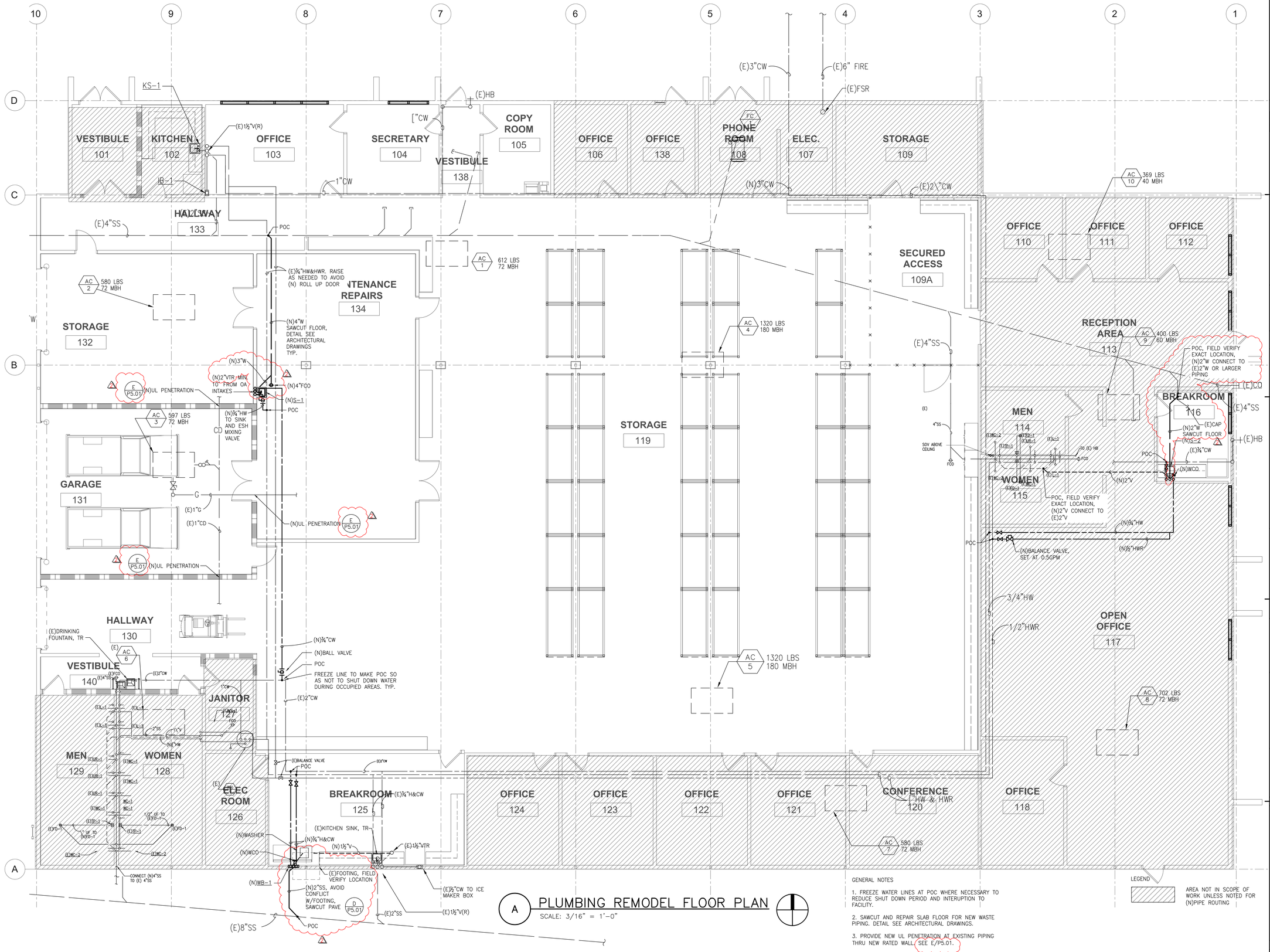

A PLUMBING REMODEL FLOOR PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. FREEZE WATER LINES AT POC WHERE NECESSARY TO REDUCE SHUT DOWN PERIOD AND INTERUPTION TO FACILITY.
2. SAWCUT AND REPAIR SLAB FLOOR FOR NEW WASTE PIPING. DETAIL SEE ARCHITECTURAL DRAWINGS.
3. PROVIDE NEW UL PENETRATION AT EXISTING PIPING THRU NEW RATED WALL. SEE E/P5.01.

LEGEND

AREA NOT IN SCOPE OF WORK UNLESS NOTED FOR (N)PIPE ROUTING

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:36pm	
Project Drafter:	-	Login: GYang	

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ANNEX BUILDING ALTERATIONS

Sheet Title

PLUMBING OVERALL FIRST FLOOR PLAN - REMODEL

Client Project Number:

Scale:	AS NOTED
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

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P2.01

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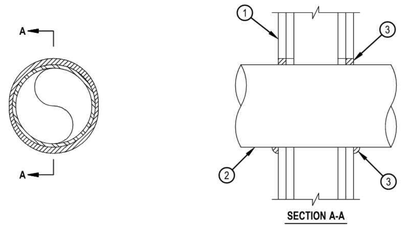
WL 1290

System No. W-L-1290

F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less than 1 CFM/Sq Ft
L Rating (Without Movement) at 400°F — Less than 1 CFM/Sq Ft
M Rating (Movement) — See Table 1

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the Fire Resistance Directory. Max diam of opening is 5 in. (127 mm). For M Rating, max diam of opening is 4-3/8 in. (111 mm).
   The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The M Rating is applicable only to 1 hr rated walls.
2. Through Penetrant — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe or tube and periphery of the opening shall be min 0 in (point contact) to max 1/2 in. (13 mm). As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. As an option, for 1 hr F Rating, the annular space between pipe and opening can be max 1 in. (25 mm) for Item 2A penetrant in 2 in. (51 mm) diam (or smaller). The following types and sizes of metallic pipes, conduit or tube may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.
   D. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
   E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

Hilti Firestop Systems

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Page: 1 of 2

WL 1290

System No. W-L-1290

3. Fill, Void or Cavity Material*-Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact and continuous point contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

The M Rating for the firestop system is dependent on the variables as noted in the Table 1 below.

Table 1

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F Rating	L Rating
Y	2A	2 in.	Max 1 in.	5%	5/8 in.	1 hr.	N/A
Z	2A	2 in.	1 in.	0.25 in.	5/8 in.	1 hr.	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Page: 2 of 2

E — UL PENETRATION UNINSULATED THRU RATED WALL
NO SCALE

PIPE SUPPORT SCHEDULE

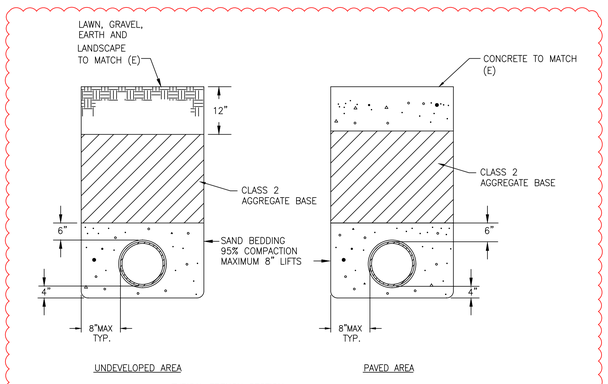
HORIZONTAL STEEL PIPE

NOMINAL PIPE SIZE	ROD DIAMETER	MAX. SPACING
½ – 1¼	⅜	7'0"
1½	⅜	9'0"
2	⅜	10'0"
2½	½	11'0"
3	½	12'0"
4	⅝	12'0"

HORIZONTAL COPPER PIPE

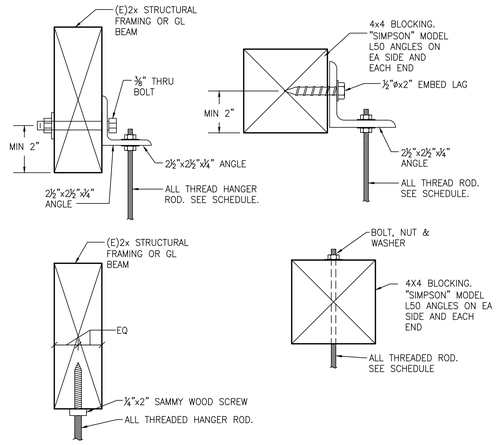
NOMINAL PIPE SIZE	ROD DIAMETER	MAXIMUM SPACING
½ –¾	⅜	5'0"
1	⅜	6'0"
1¼	⅜	6'0"
1½	⅜	6'0"
2	⅜	8'0"
2½	½	9'0"
3	½	10'0"

NOTES:
1. PROVIDE MEANS OF PREVENTING DISSIMILAR METAL CONTACT SUCH AS FELT OR NON ADHESIVE ISOLATION TAPE. GALVANIZED FELT ISOLATORS SIZED FOR COPPER TUBING MAY ALSO BE USED, TOLCO FIG.83.
2. SUPPORT HORIZONTAL CAST IRON ADJACENT TO EACH HUB, WITH 5 FEET MAXIMUM SPACING BETWEEN HANGERS.
3. INSTALL HANGERS TO PROVIDE A MINIMUM OF ½ INCH SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
4. HANGERS SHALL BE INSTALLED WITHIN 18" OF EACH HORIZONTAL ELBOW.

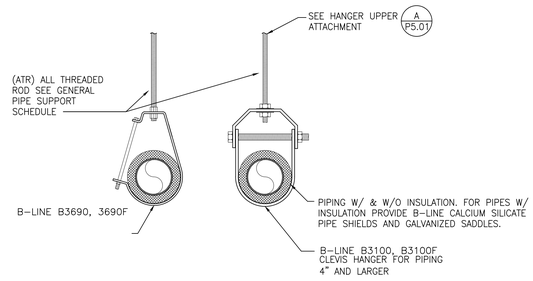


TYPICAL TRENCH SECTION

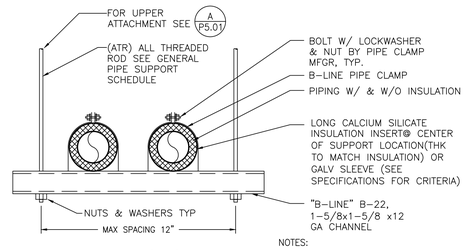
D — TRENCH BACKFILL DETAIL
NO SCALE



A — HANGER ROD UPPER ATTACHMENT DETAIL
NO SCALE



B — PIPE HANGER DETAIL
NO SCALE



TRAPEZE PIPE SUPPORT

NOTES:

1. MAX WEIGHT SUPPORTED BY A SINGLE TRAPEZE SHALL NOT EXCEED 100 LBS.

2. MAX SPACING BETWEEN TRAPEZE SUPPORT SHALL NOT EXCEED MAX SPACING REQUIREMENT FOR EACH PIPE (SEE GENERAL PIPE SUPPORT SCHEDULE) AND SHALL NOT EXCEED 10 FT.

C — GRAVITY TRAPEZE PIPE SUPPORT DETAIL
NO SCALE

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Revisions

Delta	Date	Revisions	By
1	08/17/2023	Addendum # 1	GY
2	08/25/2023	Addendum # 2	GY

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Project Manager:	JT	Plot Date: Aug 31, 2023 - 2:36pm	
Project Drafter:		Login: GYang	

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Project

ANNEX BUILDING ALTERATIONS

Sheet Title

PLUMBING DETAILS

Client Project Number:

Scale:	AS NOTED
Drawn By:	TURLEY
Checked By:	TURLEY
Issue Date:	08/25/2023

Sheet **P5.01**

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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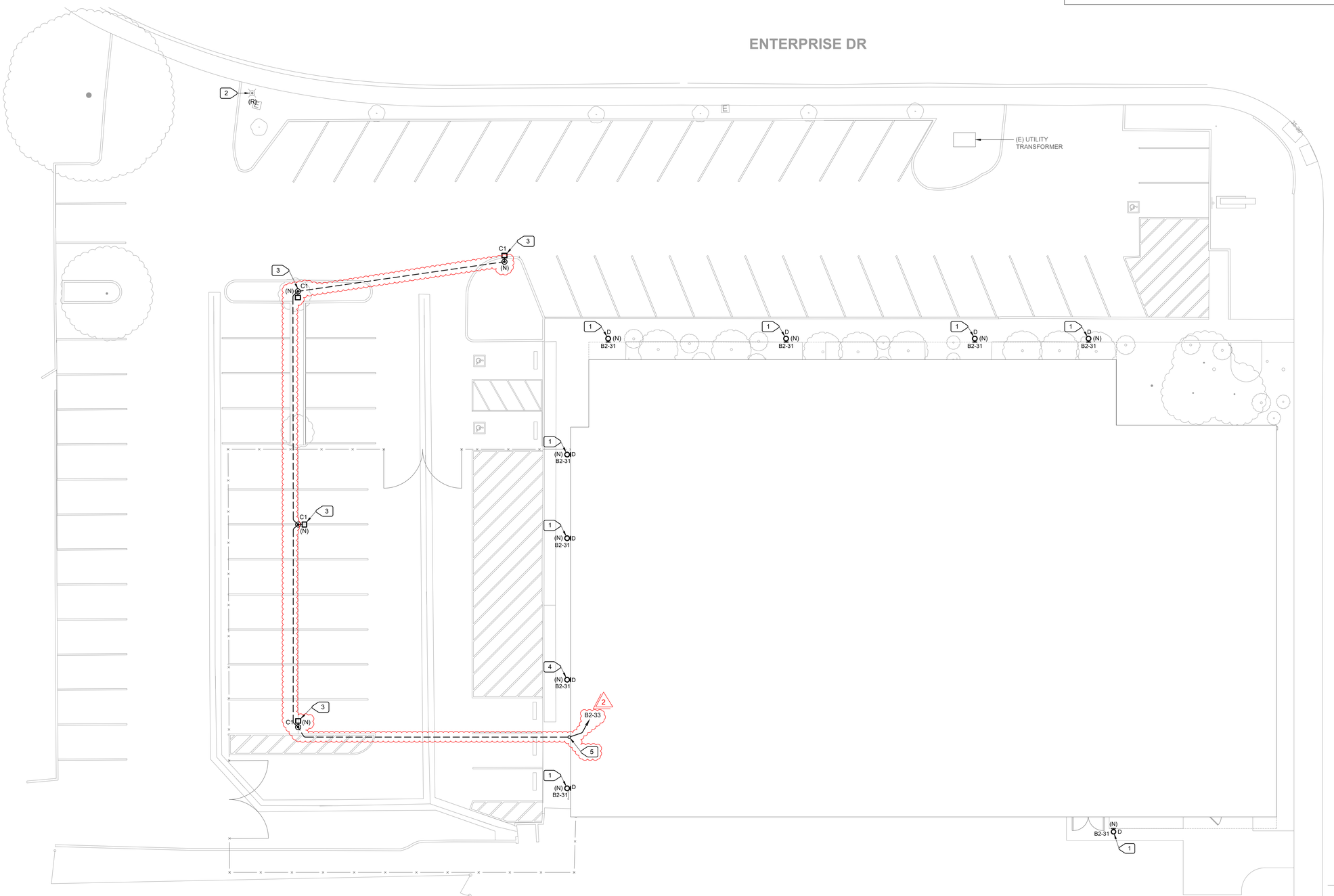
GENERAL NOTES

1. TIE ALL NEW OUTDOOR LIGHTING TO THE EXISTING OUTDOOR LIGHTING CONTROL CABINET "OLCC", LOCATED IN ELECTRICAL ROOM 107. CONTROLLED BY ASTRONOMICAL TIME SWITCH PER TITLE 24 REQUIREMENT.

NUMBERED NOTES

1. REMOVE EXISTING WALL PACKS AND PROVIDE NEW LED WALL PACK LUMINAIRES. MOTION SENSOR INTEGRAL WITH EXTERIOR LUMINAIRE.
2. REMOVE EXISTING POLE LIGHTING.
3. PROVIDE NEW LED SINGLE HEAD, NEW 4" SQUARE POLE AND BASE. MOTION SENSOR INTEGRAL WITH EXTERIOR LUMINAIRE.
4. PROVIDE NEW LED WALL PACK LUMINAIRE. MOUNTING HEIGHT TO MATCH THE EXISTING. MOTION SENSOR INTEGRAL WITH EXTERIOR LUMINAIRE. EXTEND EXISTING CIRCUIT TO NEW LOCATION.
5. RISE WITH CONDUIT ON BUILDING EXTERIOR. TURN WITH LB INTO ABOVE CEILING SPACE. RUN TO PANEL "B2" VIA EXISTING "OLCC". PROVIDE 3/4" CONDUIT WITH 2 #10, 1 #10 GND. FOR POLE LIGHTING CIRCUIT. PAINT EXPOSED CONDUIT TO MATCH BUILDING WALL.



1 SITE PLAN - REMODEL - ELECTRICAL (E1.01)

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

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Aug 23, 2023 – 2:37pm, / kerlo

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Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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PROJECT MGR: Y. Van Zanten

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ANNEX BUILDING ALTERATIONS

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SITE PLAN - REMODEL - ELECTRICAL

Client Project Number:

Scale: AS NOTED	Sheet E1.01
Drawn By: KL	
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Revit Version: 2023	Sheet 3 of 12

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Aug 23, 2023 - 2:37pm, / kerlo

NUMBERED NOTES

1. DISCONNECT AND REMOVE EXISTING LUMINAIRE AND LUMINARE CONTROLS. REMOVE EXISTING CONDUCTORS AND CONDUIT COMPLETE TO SOURCE. TYPICAL IN ROOMS 130 THROUGH 137.
2. DISCONNECT AND REMOVE EXISTING EXIT LIGHT. REMOVE EXISTING CONDUCTORS AND CONDUIT COMPLETE TO SOURCE.

1 / E2.01 OVERALL FIRST FLOOR PLAN - DEMO - LIGHTING

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

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Revisions			
Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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Project

ANNEX BUILDING ALTERATIONS

Sheet Title

OVERALL FIRST FLOOR PLAN - DEMO - LIGHTING

Client Project Number:

Scale:	AS NOTED	Sheet	E2.01
Drawn By:	KL		
Checked By:	YVZ		
Issue Date:			
Revit Version:	2023	Sheet	4 of 12

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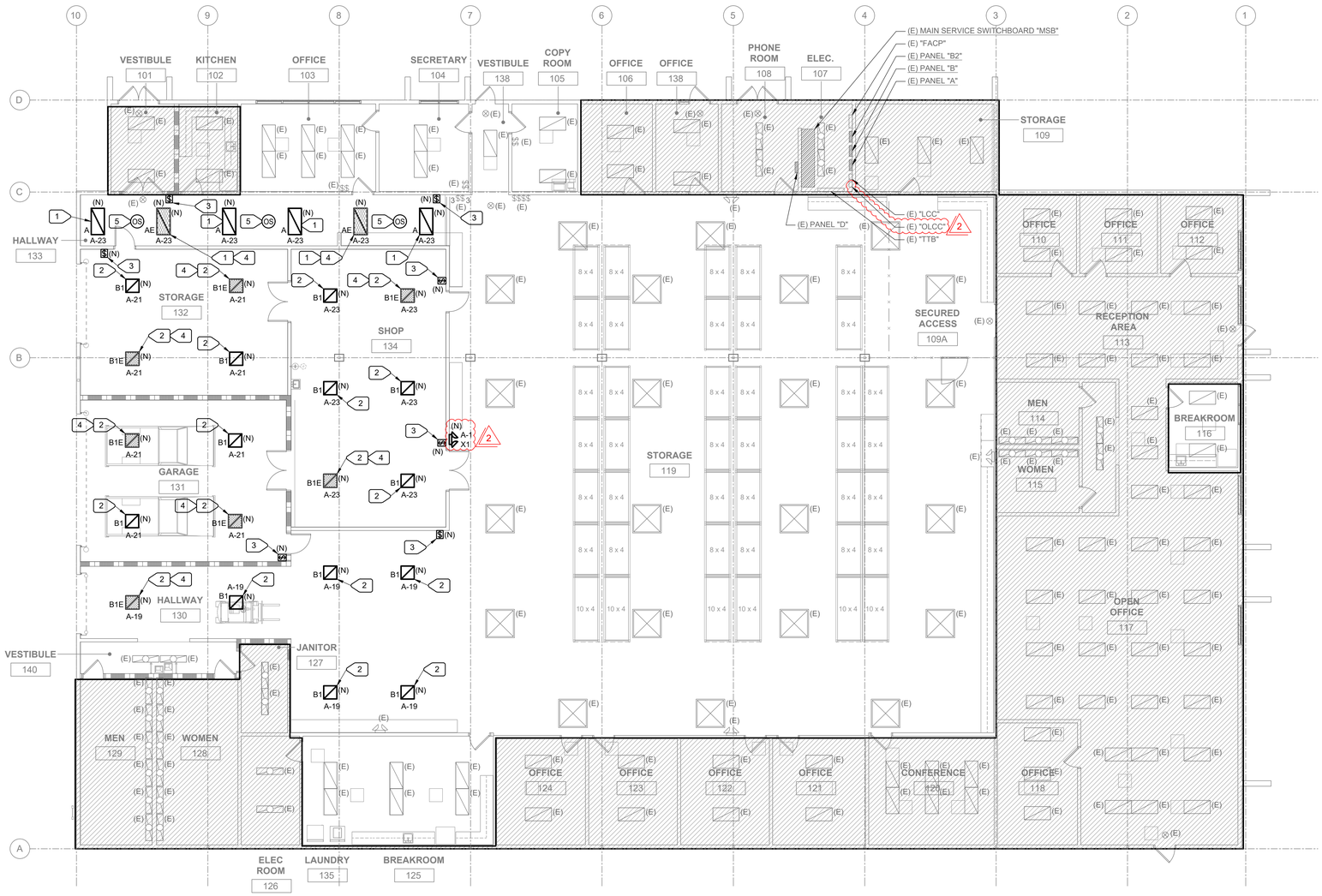

1 E2.02 OVERALL FIRST FLOOR PLAN - REMODEL - LIGHTING

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

GENERAL NOTES

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT, FOR MEANS TO SHUT-OFF EACH CIRCUIT INDIVIDUALLY.
2. LIGHTING CONDUCTORS SHALL BE #10 AWG THWN.
3. CIRCUIT ALL EMERGENCY LIGHTS/EXIT SIGNS AHEAD OF LOCAL SWITCHING.
4. TIE ALL NEW INDOOR LIGHTING TO THE EXISTING LIGHTING CONTROL CABINET "LCC", LOCATED IN ELECTRICAL ROOM 107. CONTROLS PER TITLE 24 REQUIREMENTS. (2)

NUMBERED NOTES

1. PROVIDE NEW LED LIGHTING. CIRCUITS TO PANEL "A" TO BE REUSED.
2. PROVIDE NEW LED LUMINAIRES WITH INTEGRAL OCCUPANCY SENSOR. LIGHTING TO BE TO FED FROM EXISTING PANEL "A".
3. PROVIDE NEW MULTI-FUNCTIONAL DIMMING SWITCH WITH ONE ZONE OF DIMMING.
4. INTERNAL BATTERY PROVIDED BY LUMINAIRE MANUFACTURER. ON LOSS OF POWER. LIGHTING TO BE 100% ON.
5. PROVIDE NEW OCCUPANCY SENSORS. AVOID MOUNTING SENSORS CLOSE TO AIR VENTS (PIR SENSORS SHOULD NOT BE WITHIN 4FT OF AN AIR VENT. ULTRONIC SENSORS SHOULD NOT BE WITHIN 6FT OF AN AIR VENT), TYPICAL. INSTALL PER MANUFACTURER'S REQUIREMENTS.

UNAUTHORIZED CHANGES & USES: All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans.

Aug 23, 2023 - 2:38pm, / kerlo

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Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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Tel: (916) 923-4400
PROJECT #: 23044.21
PROJECT MGR: Y. Van Zanten

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REGISTERED PROFESSIONAL ENGINEER YVETTE J. VAN ZANTEN No. E15483 Exp. 6/30/25 ELECTRICAL STATE OF CALIFORNIA

08/23/2023

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HY Architects Project number: 6014

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365 NEVADA STREET
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Project

ANNEX BUILDING ALTERATIONS

Sheet Title

OVERALL FIRST FLOOR PLAN - REMODEL - LIGHTING

Client Project Number:

Scale:	AS NOTED
Drawn By:	KL
Checked By:	YVZ
Issue Date:	
Revit Version:	2023

Sheet **E2.02**

Sheet 5 of 12

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

GENERAL NOTES

1. OWNER IS RESPONSIBLE FOR REMOVAL AND RELOCATION OF ALL A/V ITEMS IN EXISTING CONFERENCE ROOM 132.

NUMBERED NOTES

1. DISCONNECT AND REMOVE EXISTING RECEPTACLE. REMOVE EXISTING CONDUCTORS AND CONDUIT BACK TO LAST DEVICE. TYPICAL.
2. DISCONNECT AND REMOVE EXISTING DATA OUTLET. REMOVE EXISTING CABLES AND CONDUIT BACK TO SOURCE. TYPICAL.
3. DISCONNECT EXISTING POWER FOR MODULAR FURNITURE. REMOVE EXISTING CONDUCTORS BACK TO SOURCE. PROVIDE BLANK COVER PLATE ON EXISTING JUNCTION BOX. REMOVE EXPOSED CONDUIT.
4. DISCONNECT EXISTING TELEPHONE/DATA FOR MODULAR FURNITURE. REMOVE EXISTING CABLES BACK TO SOURCE. PROVIDE BLANK COVER PLATE ON EXISTING JUNCTION BOX. REMOVE EXPOSED CONDUIT.
5. DISCONNECT AND REMOVE RECEPTACLE AND DATA OUTLETS IN FLOOR BOX. REMOVE ELECTRICAL CONDUCTORS AND DATA CABLES BACK TO SOURCE. COORDINATE REMOVAL OF FLOOR BOX WITH ARCHITECT.
6. DISCONNECT EXISTING A/V DEVICE. REMOVE EXISTING CABLES BACK TO A/V RACK.
7. DISCONNECT EXISTING CAMERA. REMOVE EXISTING CABLES BACK TO A/V RACK.
8. DISCONNECT AND REMOVE EXISTING CEILING RECEPTACLE AND DATA OUTLET. REMOVE ELECTRICAL CONDUCTORS AND DATA CABLES BACK TO SOURCE.
9. DISCONNECT EXISTING A/V RACK. REMOVE ASSOCIATED RECEPTACLES AND DATA OUTLETS. REMOVE ELECTRICAL CONDUCTORS AND DATA CABLES BACK TO SOURCE.

1 E3.01 — OVERALL FIRST FLOOR PLAN - DEMO - ELECTRICAL

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

PCOE — GOLD IN EDUCATION

Revisions			
Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/25 — ELECTRICAL — STATE OF CALIFORNIA

08/23/2023

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Project
ANNEX BUILDING ALTERATIONS

Sheet Title
OVERALL FIRST FLOOR PLAN - DEMO - ELECTRICAL

Client Project Number:

Scale:	AS NOTED	Sheet	E3.01
Drawn By:	KL		
Checked By:	YVZ		
Issue Date:			
Revit Version:	2023	Sheet	6 of 12

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Aug 23, 2023 - 2:36pm, / kerlo

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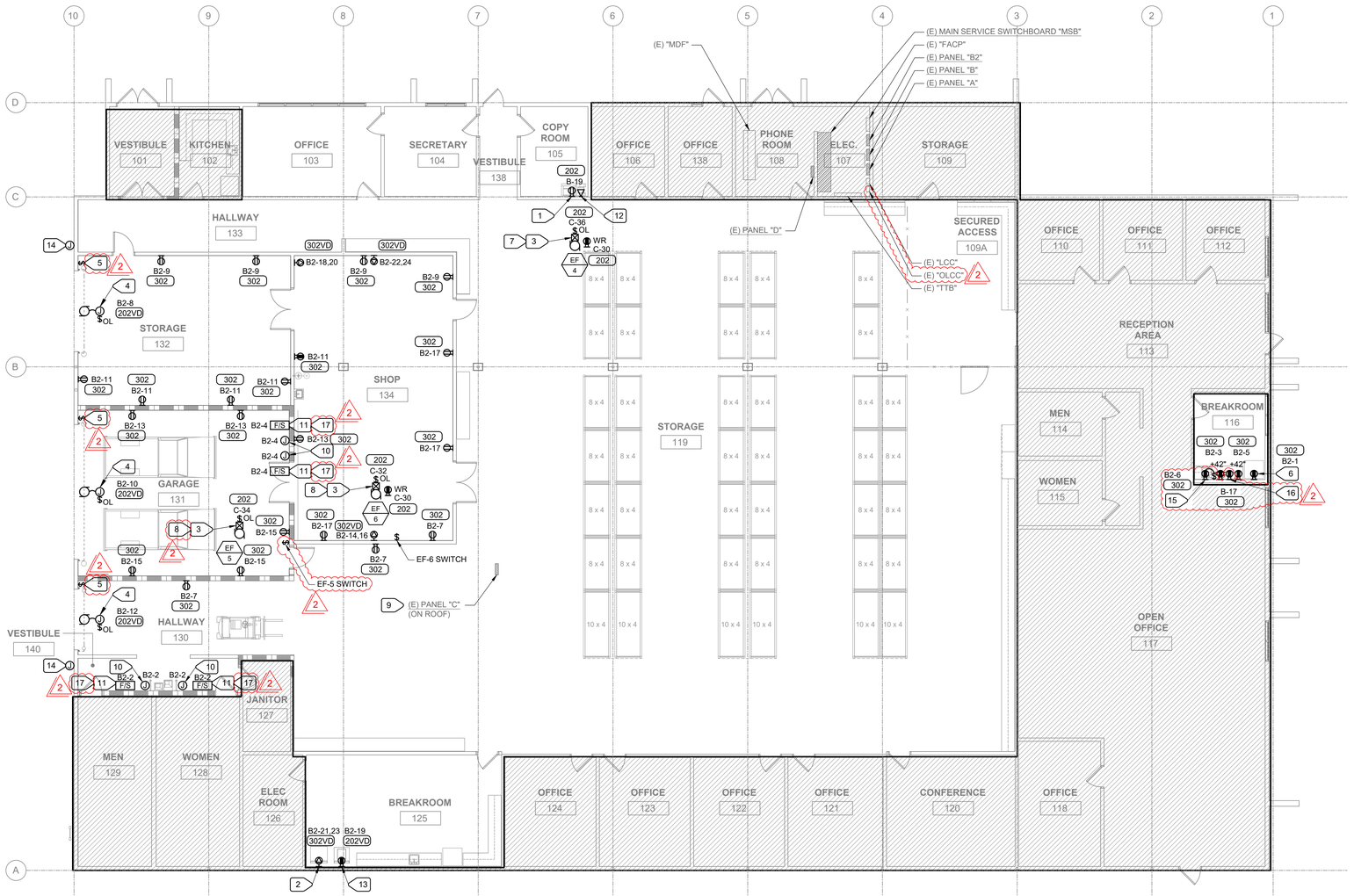
Aug 23, 2023 – 2:38pm, / kerlo

FEEDER SCHEDULE

TAG	DESCRIPTION
202	3/4" C., 2 #12, AND 1 #12 GND.
302	3/4" C., 2 #10, AND 1 #10 GND.
202VD	1"C., 2 #8, AND 1 #10 GND.
302VD	1" C., 2 #6, AND 1 #10 GND.

NUMBERED NOTES

1. PROVIDE DEDICATED CIRCUIT FOR PRINTER/COPIER.
2. LOCATE FOR DRYER. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED BY OWNER.
3. PROVIDE NEMA 3R, MOTOR RATED DISCONNECT SWITCH, WITH OVERLOAD PROTECTION AND LOCKABLE COVER. MOUNT ADJACENT TO UNIT.
4. PROVIDE POWER AND CONTROLS FOR ROLL-UP DOOR PER MANUFACTURER'S REQUIREMENTS.
5. PROVIDE UP, DOWN, STOP SWITCH FOR ROLL-UP DOOR. CONNECT PER MANUFACTURER'S REQUIREMENTS.
6. LOCATE FOR REFRIGERATOR.
7. CIRCUIT VIA MECHANICAL INTERLOCK. COORDINATE WITH MECHANICAL.
8. DOWN TO SWITCH.
9. PROVIDE NEW CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULE ON SHEET E4.01.
10. LOCATE FOR AND CONNECT POWER FOR DUCT SMOKE DETECTORS. COORDINATE WITH MECHANICAL.
11. LOCATE FOR AND CONNECT POWER FOR FIRE SMOKE DAMPERS. COORDINATE WITH MECHANICAL.
12. PROVIDE 1/2" C., WITH (2) CAT6 CABLES TO MDF.
13. LOCATE FOR WASHER. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED.
14. LOCATE SQUARE BOX FOR SECURITY CAMERA. PROVIDE 3/4" CONDUIT WITH (1) CAT6 CABLE TO MDF. VERIFY EXACT LOCATION WITH PCOE I.T. DEPARTMENT.
15. LOCATE FOR GARBAGE DISPOSAL. MOUNT SWITCH ABOVE COUNTER AT +42".
16. LOCATE FOR DISHWASHER. VERIFY EXACT LOCATION WITH ARCHITECT.
17. CONNECT VIA FIRE ALARM SYSTEM SUCH THAT WHEN FIRE SMOKE DAMPER CLOSES ASSOCIATED HVAC UNIT SHUTS DOWN. COORDINATE WITH MECHANICAL AND FIRE ALARM CONTRACTORS.



1 / E3.02 OVERALL FIRST FLOOR PLAN - REMODEL - ELECTRICAL

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

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
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Project

ANNEX BUILDING ALTERATIONS

Sheet Title

OVERALL FIRST FLOOR PLAN - REMODEL - ELECTRICAL

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Sheet **E3.02**

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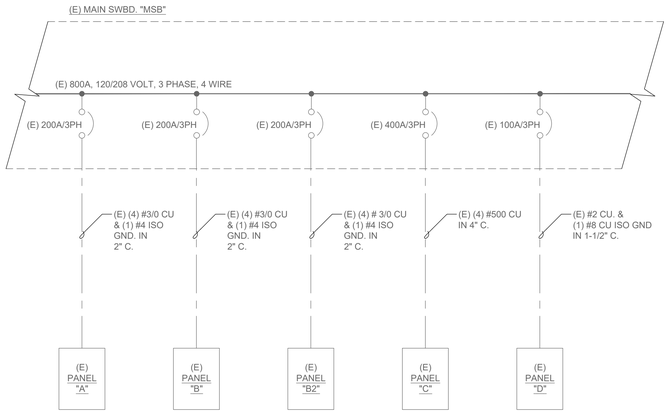

1 / E4.01 PARTIAL ONE LINE POWER DIAGRAM

NO SCALE

EXISTING PANEL "C" SCHEDULE

POWER SOURCE: EXISTING MAIN SWITCHBOARD — LOCATION: ROOF
SYSTEM: NORMAL BRANCH

TYPE:	BUS: 400 AMPS	MLO	VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE PANEL TYPE NEMA 3R	REMARKS: 10k AIC MIN. SYMM.

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
	3.5		1	A	2		2.2	
AC-1	3.5	45/3	3	B	4	30/3	2.2	AC-2
	3.5		5	C	6		2.2	
	2.7		7	A	8		6.3	
AC-3	2.7	30/3	9	B	10	60/3	6.3	AC-4
	2.7		11	C	12		6.3	
	6.3		13	A	14		2.7	
AC-5	6.3	60/3	15	B	16	40/3	2.7	AC-6
	6.3		17	C	18		2.7	
	2.2		19	A	20		3.9	
AC-7	2.2	30/3	21	B	22	50/3	3.9	AC-8
	2.2		23	C	24		3.9	
	2.3		25	A	26		1.5	
AC-9	2.3	30/3	27	B	28	25/2	1.5	AC-10
	2.3		29	C	30	**(N) 20/1 [2]**	**0.4**	**(N) ROOF RCPT**
DUCT DETECTORS	0.1	20/1 [1]	31	A	32	**(N) 20/1 [2]**	**0.9**	**(N) EF-6**
ROOF RCPT	1.1	20/1	33	B	34	**(N) 20/1 [2]**	**0.7**	**(N) EF-5**
SPACE		PFB	35	C	36	**(N) 20/1 [2]**	**0.7**	**(N) EF-4**
SPACE		PFB	37	A	38	PFB		SPACE
SPACE		PFB	39	B	40	PFB		SPACE
SPACE		PFB	41	C	42	PFB		SPACE

NOTES:
[1] RED LOCK-ON TAB

[2] PROVIDE NEW CIRCUIT BREAKER TO MATCH MANUFACTURER, EXISTING TYPE AND AIC RATING. PROVIDE COMPLETE WITH HARDWARE.

2 **[3] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.**

CONNECTED LOAD

PHASE A=	34.6	kVA
PHASE B=	35.4	kVA
PHASE C=	33.2	kVA
TOTAL =	103.1	kVA
TOTAL =	286.4	Amperes

EXISTING PANEL "A" SCHEDULE

POWER SOURCE: EXISTING MAIN SWITCHBOARD "MSB" — LOCATION: ELECTRICAL ROOM
SYSTEM: NORMAL BRANCH

TYPE:	BUS: 200 AMPS	MLO	VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE PANEL TYPE NEMA 1	REMARKS:

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
EXIT / EMERG LTG	1.5	20/1	1	A	2	20/1	1.7	OPEN OFFICE LTG
STOR / OFFICE LTG	0.8	20/1	3	B	4	20/1	1.7	OPEN OFFICE LTG
RECEP LTG	1.7	20/1	5	C	6	20/1	1.7	OPEN OFFICE LTG
OPEN OFFICE LTG	1.9	20/1	7	A	8	20/1	1.7	OPEN OFFICE LTG
OFFICE LTG	1.8	20/1	9	B	10	20/1	1.4	OPEN OFFICE LTG
CONF / OFFICE LIGHITNG	1.8	20/1	11	C	12	20/1	1.4	OPEN OFFICE LTG
CONF / OFFICE LIGHITNG	1.8	20/1	13	A	14	20/1	0.1	OPEN OFFICE LTG
MISC LTG	1.6	20/1	15	B	16	20/1	0.1	OPEN OFFICE LTG
OFFICE LTG	1.8	20/1	17	C	18	20/1	0.1	LTG CONTROL
(N) HALLWAY 130 LTG	**1.1**	20/1	19	A	20	20/1		**SPARE**
(N) GARAGE,STORAGE LTG	**1.4**	20/1	21	B	22	20/1		**SPARE**
(N) SHOP,HALLWAY LTG	**1.3**	20/1	23	C	24	20/1		**SPARE**
SPARE		20/1	25	A	26	20/1		**SPARE**
SPARE		20/1	27	B	28	20/1		**SPARE**
SPARE		20/1	29	C	30	20/1		**SPARE**
SPARE		20/1	31	A	32	20/1		**SPARE**
SPARE		20/1	33	B	34	20/1		**SPARE**
SPARE		20/1	35	C	36	20/1		**SPARE**
SPARE		20/1	37	A	38	20/1		**SPARE**
SPARE		20/1	39	B	40	20/1		**SPARE**
SPARE		20/1	41	C	42	20/1		**SPARE**

2 NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.

CONNECTED LOAD

PHASE A=	9.8	kVA
PHASE B=	8.8	kVA
PHASE C=	9.8	kVA
TOTAL =	28.4	kVA
TOTAL =	78.9	Amperes

EXISTING PANEL "B" SCHEDULE

POWER SOURCE: EXISTING MAIN SWITCHBOARD "MSB" — LOCATION: ELECTRICAL ROOM
SYSTEM: NORMAL BRANCH

TYPE:	BUS: 200 AMPS	MLO	VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE PANEL TYPE NEMA 1	REMARKS:

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
KITCHEN REC.	1.2	20/1	1	A	2	20/1	1.4	OFFICE REC.
KITCHEN REC.	1.2	20/1	3	B	4	20/1	1.4	OFFICE / CONF. REC.
KITCHEN REC.	1.2	20/1	5	C	6	20/1	1.4	OFFICE / OPEN OFF REC.
KITCHEN DISP/REF	1.5	20/1	7	A	8	20/1	0.9	OPEN OFF/MISC. REC.
CONT. MISC. REC.	1.3	20/1	9	B	10	20/1	1.4	OPEN OFF/RECEPT. REC.
WAITING/OFFICE REC.	1.4	20/1	11	C	12	20/1	1.3	OFFICE REC.
SPARE		20/1	13	A	14	20/1	1.3	STORAGE / MISC. REC.
OFFICE REC.	1.4	20/1	15	B	16	20/1	0.4	TTB REC.
(N) DISHWASHER	**1.2**	20/1	17	C	18	20/1	1.4	CONF. / OFFICE REC.
(N) COPIER - RM 105	**1.5**	20/1	19	A	20	20/1	1.0	OFFICE REC.
SPARE		20/1	21	B	22	20/1	1.0	OFFICE REC.
SPARE		20/1	23	C	24	20/1	1.0	OFFICE REC.
CORRIDOR . MISC. REC.	1.3	20/1	25	A	26	20/1	1.0	OFFICE REC.
BREAK RM. DISP/REF	1.5	20/1	27	B	28	20/1	1.0	OFFICE REC.
SHUNT TRIP	0.1	20/1	29	C	30	20/1	1.0	OFFICE REC.
BREAK RM. REC.	1.2	20/1	31	A	32	20/1	1.0	OFFICE REC.
BREAK RM. REC.	1.2	20/1	33	B	34	20/1	1.0	OFFICE REC.
BREAK RM. REC.	1.2	20/1	35	C	36	20/1	0.1	IRRIGATION CONTROL
BREAK RM. REC.	1.2	20/1	37	A	38	20/1	0.1	FACP / FSD
BREAK RM. REC.	1.2	20/1	39	B	40	20/1	1.0	RR RECEPT
BREAK RM. REC.	1.2	20/1	41	C	42	20/1	1.0	RR RECEPT

2 NOTES:
[1] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.

CONNECTED LOAD

PHASE A=	14.6	kVA
PHASE B=	15.0	kVA
PHASE C=	13.5	kVA
TOTAL =	43.1	kVA
TOTAL =	119.7	Amperes

EXISTING PANEL "B2" SCHEDULE

POWER SOURCE: EXISTING MAIN SWITCHBOARD "MSB" — LOCATION: ELECTRICAL ROOM
SYSTEM: NORMAL BRANCH

TYPE:	BUS: 225 AMPS	MLO	VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE PANEL TYPE NEMA 1	REMARKS:

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
(N) REFRIGERATOR-RM 116	**1.2**	20/1	1	A	2	20/1 **[1]**	**0.5**	**(N) FSD/DUCT DETECTOR**
(N) COUNTER RCPT-RM 116	**0.2**	20/1	3	B	4	20/1 **[1]**	**0.5**	**(N) FSD/DUCT DETECTOR**
(N) COUNTER RCPT-RM 116	**0.2**	20/1	5	C	6	20/1	**1.2**	**(N) GARBAGE DISPOSAL**
(N) RCPTS - RM 134, 130	**0.5**	20/1	7	A	8	20/1	**1.5**	**(N)ROLL-UP DOOR-RM 132**
(N) RCPTS - RM 132, 134	**0.7**	20/1	9	B	10	**(N) 25/1 [2]**	**2.1**	**(N)ROLL-UP DOOR-RM 131**
(N) RCPTS - RM 131, 132	**0.7**	20/1	11	C	12	20/1	**1.5**	**(N)ROLL-UP DOOR-RM 130**
(N) RCPTS - RM 134, 131	**0.5**	20/1	13	A	14	**(N) 30/2 [2]**	**1.6**	**(N) TWISTLOCK RCPT**
(N) RCPTS - RM 131	**0.5**	20/1	15	B	16		**1.6**	
(N) RCPTS - RM 134	**0.5**	20/1	17	C	18	**(N) 30/2 [2]**	**1.6**	**(N) TWISTLOCK RCPT**
(N) WASHER	**1.2**	20/1	19	A	20		**1.6**	
(N) DRYER	**2.3**	**30/2[2][3]**	21	B	22	**(N) 30/2 [2]**	**1.6**	**(N) TWISTLOCK RCPT**
	2.3		23	C	24		**1.6**	
EF - 3	0.9	20/1	25	A	26	20/1	1.5	OFFICE PRINTERS
EF - 1.2	0.6	20/1	27	B	28	20/1	1.0	SCREEN PROJECTOR
SCREEN PROJECTOR	1.0	20/1	29	C	30	20/1	1.5	OFFICE PRINTERS
BLDG. LTG.	1.8	20/1	31	A	32	20/1	1.5	OFFICE PRINTERS
I.T. RACK RCPTS	0.2	20/1	33	B	34	20/1	1.5	OFFICE PRINTERS
I.T. RACK RCPTS	0.2	20/1	35	C	36	20/1	1.5	OFFICE PRINTERS
CONF. RM. CEILING RCPTS	1.3	20/1	37	A	38	20/1	1.5	OFFICE PRINTERS
CONF. RM. FLR. RCPTS	1.1	20/1	39	B	40	20/1	1.5	OFFICE PRINTERS
ASTRONOMICAL TS-2	0.6	20/1	41	C	42	20/1	1.5	OFFICE PRINTERS

NOTES:
[1] PROVIDE HANDLE LOCK-ON DEVICE. PAINT BREAKER HANDLE RED.
[2] PROVIDE NEW CIRCUIT BREAKER TO MATCH MANUFACTURER AND AIC RATING. PROVIDE COMPLETE WITH HARDWARE.
2 **[3] PROVIDE GFCI CIRCUIT BREAKER.**
2 **[4] ALL CIRCUIT BREAKERS SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE. BOLD TEXT INDICATES NEW WORK.**

CONNECTED LOAD

PHASE A=	17.2	kVA
PHASE B=	15.4	kVA
PHASE C=	15.9	kVA
TOTAL =	48.5	kVA
TOTAL =	134.8	Amperes

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Aug 23, 2023 – 2:38pm, / kerlo

PCOE GOLD IN EDUCATION

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Project

ANNEX BUILDING ALTERATIONS

Sheet Title

PARTIAL ONE-LINE DIAGRAM, PANEL SCHEDULES, AND LOAD CALCULATIONS

Client Project Number:

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date:
Revit Version: 2023

Sheet **E4.01**

Sheet 8 of 12

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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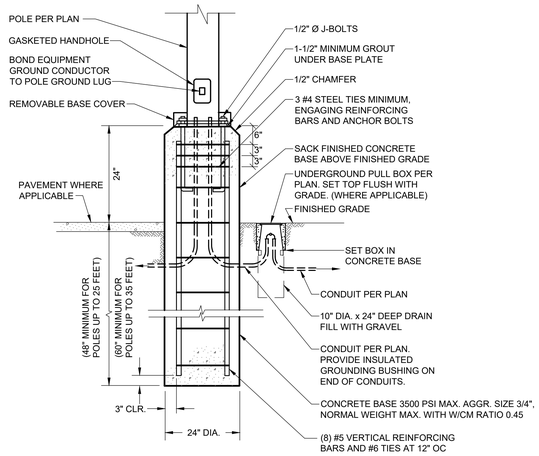
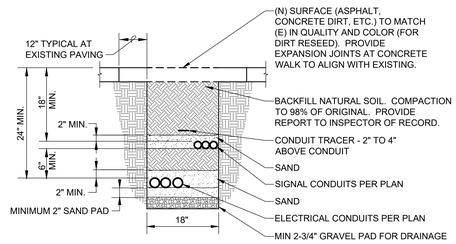


(CALCULATED DIMENSIONS AND MATERIALS BASED ON 100 MPH WIND)

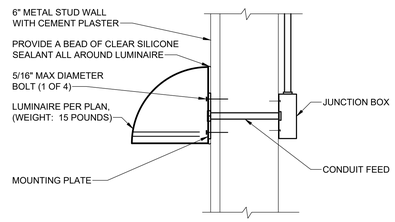
1 E5.02 **POLE BASE MOUNTING DETAIL**

NO SCALE



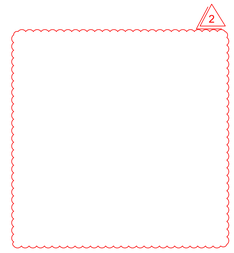
2 E5.02 **CONDUIT TRENCHING DETAIL**

NO SCALE



3 E5.02 **WALL SCONCE MOUNTING DETAIL**

NO SCALE — METAL STUD WALL WITH CEMENT PLASTER



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Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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PROJECT #: 23044.21
PROJECT MGR: Y. Van Zanten

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REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/25 — ELECTRICAL — STATE OF CALIFORNIA

08/23/2023

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HY Architects Project number: 6014

Facility

PLACER CO. OFFICES OF EDUCATION
365 NEVADA STREET
AUBURN, CA 95603

Project

ANNEX BUILDING ALTERATIONS

Sheet Title

ELECTRICAL DETAILS

Client Project Number:

Scale:	AS NOTED	Sheet	E5.02
Drawn By:	KL		
Checked By:	YVZ		
Issue Date:			
Revit Version:	2023	Sheet 10 of 12	

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Aug 23, 2023 – 2:38pm, / kerlo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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PLACER COUNTY OFFICE OF EDUCATION

PLACER COUNTRY OFFICE OF EDUCATION

SITE IMPROVEMENTS

360 NEVADA STREET, AUBURN, CA 95603

ABBREVIATIONS

&	AND
@	AT
℄	CENTERLINE
Ø	DIAMETER
#	POUND OR NUMBER
A/C	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
ADD	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALS	ASSISTED LISTENING SYSTEM
ALT	ALTERNATE
ALUM	ALUMINIUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BITUM	BITUMINOUS
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CT	CERAMIC TILE
CUST	CUSTODIAN
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DI	DRAIN OR DROP INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
E	EAST
EA	EACH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EVA	EMERGENCY VEHICLE ACCESS
EWC	ELECTRICAL WATER COOLER
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH
FLR	FLOOR
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED PANEL
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GSM	GALVANIZED WHEET METAL
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LT	LIGHT
MAX	MAXIMUM
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIREBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULAR
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION
(N)	NEW
N/A	NOT APPLICABLE
N	NORTH
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
(R)	RELOCATE
RB	RESILIENT OR RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED
REQ	REQUIRED
RF	RESILIENT FLOORING
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
S	SOUTH
SC	SOLID CORE
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	SOAP DISPENSER
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FEET
SFPD	SEE FIRE PROTECTION DRAWINGS
SHT	SHEET
SIM	SIMILAR
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPENSER
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
T.O.	TOP OF
TOC	TOP OF CURB
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
w/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING CODES LISTED IN "APPLICABLE CODES" AND ALL GOVERNING LOCAL CODES AND REGULATIONS.
2. THE OWNER / ARCHITECT HAVE OBTAINED APPROVAL OF THE PRIMARY AUTHORITY HAVING JURISDICTION (DSA, OSHPD, CITY BUILDING PERMIT). CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. UNLESS STATED OTHERWISE IN THE SPECIFICATIONS, SPECIAL INSPECTION IS REQUIRED FOR SHOP AND FIELD STRUCTURAL WELDING.
4. WHERE INCORPORATED IN THE CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF OSHPD OR DSA PRE-APPROVALS FOR PRE-APPROVED ITEMS OR SYSTEMS INCORPORATED INTO THE CONSTRUCTION AND DISTRIBUTE TO OWNER'S REPRESENTATIVE, ARCHITECT AND INSPECTOR.
5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FURNISH AND AND INSTALL ALL MATERIALS AND WORK DESCRIBED, DEPICTED OR DETAILED WITHIN THESE DOCUMENTS REGARDLESS OF THE LOCATION OF THAT MATERIAL OR WORK WITHIN THE DOCUMENTS OR OMISSION (WHETHER DELIBERATE OR ACCIDENTAL) OF THAT MATERIAL OR WORK BY A SUBCONTRACTOR ON HIS/HER BID.
6. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONSIDER THESE DOCUMENTS IN THEIR ENTIRETY. DISCREPANCIES OR CONTRADICTIONS BETWEEN PORTIONS OF THESE DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST 72 HOURS PRIOR TO BID OPENING FOR CLARIFICATION. OTHERWISE, THE MOST RESTRICTIVE REQUIREMENT SHALL BE IN FORCE AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. CONTRACTOR ESTABLISH PROCEDURES TO ASSURE ALL PERSONS ENTERING A POSSIBLY HAZARDOUS AREA, INCLUDING WORKERS, SUBCONTRACTORS, OTHER CONTRACTORS, VISTORS, AND OTHERS ARE AWARE OF APPROPRIATE / REQUIRED SAFETY PROCEDURES. COMPLY WITH LOCAL STATE, AND FEDERAL SAFETY STANDARDS, INCLUDING OSHA REQUIREMENTS AND WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY FENCING AND GATES, SIGNAGE, SECURITY LIGHTING OR OTHER SECURITY AND CONTROL MEASURES NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC AND FACILITY USERS UNTIL THE COMPLETION OF THE WORK.
9. THE CONTRACTOR IS RESPONSIBLE TO FOR PROTECTION OF ADJACENT PROPERTY AND SHALL REPAIR AND / OR REPLACE ALL PROPERTY DAMAGED DURING THE COURSE ON THE WORK.
10. THE CONTRACTOR SHALL LIMIT HIS / HER ACTIVITY TO THE AREA DESCRIBED WITHIN THE DOCUMENTS UNLESS OTHERWISE PERMITTED BY THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY ITEMS DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK. INSTALLATION SHALL MATCH EXISTING IN KIND, QUALITY, AND PERFORMANCE.
12. WHERE EXISTING CONSTRUCTION AND FINISES ARE CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, PERFORMANCE CHARACTERISTICS, AND APPEARANCE.
13. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLR" MEAN CLEAR DIMENSION TO FACE OF FINISH. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.
14. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED ITEMS, INCLUDING FURNITURE AND EQUIPMENT, TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
15. ALL ITEMS IN THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
16. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL OCCUPIED EXISTING FACILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES. ANY SHUT DOWNS FOR NEW CONNECTIONS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE TWO WEEKS PRIOR TO THE REQUESTED SHUT DOWN.
17. COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE OWNER'S REPRESENTATIVE ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
18. COORDINATION OF SCHEDULE: PORTIONS OF THIS WORK MAY BE REQUIRED TO BE COMPLETED ON SCHEDULE IN ORDER TO AVOID DELAY TO OTHER CONTRACTORS OR OWNERS OPERATIONS. CONTRACTOR SHALL STRICTLY ADHER TO ESTABLISHED COMPLETION DATES AS DESIGNATED IN THE SPECIFICATIONS AND COORDINATE WORK SCHEDULE WITH THE OWNER'S REPRESENTATIVE AND OTHER CONTRACTORS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND LIQUIDATED DAMAGES.
19. SCHEDULE ALL WORK WITH THE OWNER'S REPRESENTATIVE, INCLUDING CONSTRUCTION ACCESS AND STORAGE, AND WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
20. CONSTRUCTION PROCEDURES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
21. DEMOLITION IS NOT NECESSARILY LIMITED TO ONLY WHAT IS SHOWN ON THIS OR OTHER DRAWINGS OR AS OUTLINED IN THE SPECIFICATIONS. THE INTENT IS TO INDICATE GENERAL SCOPE OF DEMOLITION REQUIRED. CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS DEMOLITON, CUTTING AND PATCHING REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
22. ALL ITEMS IDENTIFIED TO BE SALVAGED SHALL BE DELIVERED IN GOOD CONDITION TO A PLACE OF STORAGE AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL OTHER ITEMS MUST BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
23. ARCHITECT IS NOT RESPONSIBLE FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO, HAZARDOUS MATERIALS OR TOXIC SUBSTANCES IN ANY FORM AT THE PROJECT SITE. TO THE EXTENT THESE DOCUMENTS RELATE TO SUCH ISSUES, ARCHITECT'S PARTICIPATION IS SOLELY ADMINISTRATIVE WITHOUT ANY RESPONSIBILITY FOR THE CONTENT OR EXECUTION OF SUCH DOCUMENTS.
24. DETAIL DRAWINGS WITH REFERENCES TO FIRE-RATED ASSEMBLIES OR CONSTRUCTION WHICH HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, THE CALIFORNIA BUILDING CODE OR ANY OTHER APPROVED TESTING AGENCY, SHALL BE CONSTRUED TO INCLUDE ALL WORK AND PROCEDURES CONTAINED IN THE REFERENCED ASSEMBLY DESCRIPTION..
25. ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED AND SEALED TO MAINTAIN THE REQUIRED RATING.
26. CONTRACTOR TO MAINTAIN CONTEMPORANEOUSLY RECORDED "AS-BUILT" INFORMATION OF ALL WORK, WHICH SHALL BE MARKED IN COLOR ON THE DRAWINGS AND SPECIFICATIONS. A SCANNED PDF OF THE "AS-BUILT" DRAWINGS AND SPECIFICATIONS SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE PRIOR TO FINAL APPLICATION FOR PAYMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
27. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION AND DUST COVERS ADJACENT TO OCCUPIED AREAS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS, INLCUDING SIDEWALKS AND DRIVEWAYS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
28. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND TO OCCUPANTS OF EXISTING BUILDING.
29. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES AND REGULATIONS:

2022 CALIFORNIA BUILDING ADMINISTRATIVE CODE,
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH 2021 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) WITH 2020 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH 2021 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH 2021 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY EFFICIENCY STANDARDS (ENERGY CODE), PART 6, TITLE 24 CCR

2022 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(ASME A17.1-2019)

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 CCR
(2021 IEB CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING CODE (CALGreen), PART 11, TITLE 24, CCR

2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS	2022 EDITION
NFPA 14	INSTALLATION OF STANDPIPE SYSTEMS	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYS.	2021 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL SYS.	2021 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS	2019 EDITION
NFPA 24	INSTALLATION OF PRIVATE FIRE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2022 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2018 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEM	2018 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CBC CHAPTER 35 AND 2022 CFC CHAPTER 45

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

SYMBOLS

GRID LINE

BUILDING ELEVATION
ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION IS SHOWN

BUILDING OR WALL SECTION
SECTION IDENTIFICATION
SHEET WHERE SECTION IS SHOWN

DETAIL
DETAIL IDENTIFICATION
SHEET WHERE DETAIL IS SHOWN

INTERIOR ELEVATION(S)
DETAIL NO. OF ELEVATION
NO ARROWS MEAN ELEVATION NOT SHOWN
SHEET WHERE ELEVATION IS SHOWN
ELEVATION IDENTIFICATION

WORK POINT, CONTROL POINT OR DATUM POINT

REVISIONS
REVISION NUMBER, SEE REVISION SCHEDULE ON TITLE BLOCK
AREA OF REVISION

ROOM IDENTIFICATION
ROOM NAME
KAISER ROOM CODE NAME
ROOM NUMBER
CEILING HEIGHT (OTHER THAN EXISTING OR 8'-0" A.F.F.)

KEYNOTE TAG
REFER TO KEYNOTE LIST LOCATED ON PLAN SHEETS

AREA OF NO WORK

DOOR TAG (SEE DOOR SCHEDULE)
DOOR MARK
HARDWARE GROUP

DOOR MARK

(E) DOOR TO REMAIN

(E) DOOR TO BE REMOVED

(N) DOOR & DOOR FRAME

WALL TAG
WALL TYPE - REFER TO DRAWING SHEET A9.01

WINDOW TAG
WINDOW MARK (SEE WINDOW SCHEDULE)

OWNER

PLACER COUNTY OFFICE OF EDUCATION

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AUBURN, CA 95603 TEL. (530) 889-5920
CONTACT: MARTIN FREGOSO

CONSULTANTS

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4206 2ND STREET, SUITE 3 FAX (530) 758-4789
DAVIS, CA 95618
CONTACT: HOWARD CHO

CIVIL

WARREN CONSULTING ENGINEERS, INC. TEL. (916) 985-1870
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762
CONTACT: ANTHONY J. TASSANO

LANDSCAPE

MTW GROUP TEL. (916) 369-3990
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K STREET, SUITE 201
SACRAMENTO, CA 95816
CONTACT: PETER D. LARIMER

SCOPE OF WORK

SITE IMPROBEMENTS AT OUTDOOR AREA NORTH OF BUILDING INCLUDING, BUT NOT LIMITED TO:

- MINOR GRADING
- LANDSCAPING
- SHADE STRUCTURES (OFCI)
- WALKWAY ACCESS UPGRADES

DEFERRED APPROVALS

NONE

INDEX OF DRAWINGS

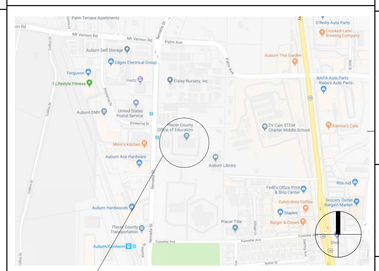
ARCHITECTURAL
A0.01 TITLE SHEET
A1.01 OVERAL SITE PLAN
A1.02 SITE PLAN - DEMO
A1.03 SITE PLAN - REMODEL
A8.01 DETAILS - SITE

4 ELECTRICAL
E0.01 ELECTRICAL SHEET INDEX, ABBREVIATIONS, SYMBOL LIST, AND NOTES
E1.01 PARTIAL SITE PLAN - ELECTRICAL

CIVIL
C0.0 CIVIL GENERAL NOTES AND ABBREVIATIONS
C0.1 TOPOGRAPHIC SURVEY
C1.1 DEMOLITION PLAN
C2.1 GRADING PLAN
C3.1 PAVING AND STRIPING PLAN
C4.1 EROSION CONTROL PLAN
C5.1 DETAILS AND SECTIONS

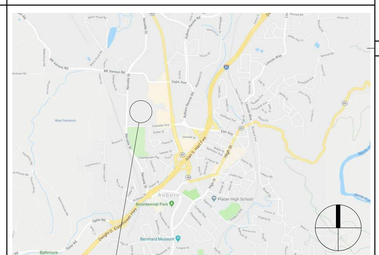
LANDSCAPE
LD.1 IRRIGATION DEMOLITION PLAN
L1.1 SITE PLAN
L2.1 LANDSCAPE TREE PLANTING PLAN AND SHRUBS/TURF PLANTING PLAN
L3.1 LANDSCAPE IRRIGATION PLAN
L4.1 LANDSCAPE PLATING DETAILS
L4.2 LANDSCAPE IRRIGATION DETAILS
L5.1 LANDSCAPE IRRIGATION SCHEDULE AND WATER USE CALCULATIONS

LOCATION MAP



364 NEVADA STREET, AUBURN, CA 95603

VICINITY MAP NO SCALE



PROJECT SITE

PCOE GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
	7/11/22	RFI 1	HC

PLAN CHECK SET
CONSTRUCTION DOCUMENTS

AGENCY APPROVAL

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HY Architects Project number: 6014

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Project
SITE IMPROVEMENTS

Sheet Title
TITLE SHEET

Client Project Number:

Scale:	AS NOTED
Drawn By:	GB
Checked By:	HC
Issue Date:	7/24/23
Revit Version:	2023

Sheet **A0.01**

Sheet of

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8/31/2023 8:26:55 PM

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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BRANCH CIRCUIT VOLTAGE DROP TABLE

VOLTAGE DROP VALUES NOT EXCEEDING 2% FOR FEEDERS HAVE BEEN SHOWN ON THE ONE LINE DIAGRAM. IN LIEU OF VOLTAGE DROP CALCULATIONS FOR EACH BRANCH CIRCUIT IN SCOPE OF WORK, THE GENERAL DESIGN STANDARD BELOW HAS BEEN FOLLOWED TO ENSURE A VOLTAGE DROP OF 3% IS NOT EXCEEDED. WHERE THE CIRCUIT LOAD OR CIRCUIT LENGTH LISTED HAS BEEN EXCEEDED, A DETAILED VOLTAGE DROP CALCULATION FOR THAT CIRCUIT HAS BEEN PROVIDED WITH THE TITLE 24 COMPLIANCE DOCUMENTATION.

VOLTAGE	MAXIMUM CIRCUIT LOAD FOR 20 AMP CIRCUIT BREAKER	CONDUCTOR SIZE	MAXIMUM BRANCH CIRCUIT LENGTH
120 VOLT	9 AMPS (1.08 KVA)	#8 AWG	285 FEET
		#10 AWG	180 FEET
		#12 AWG	115 FEET
	12 AMPS (1.44 KVA)	#8 AWG	210 FEET
		#10 AWG	135 FEET
		#12 AWG	85 FEET
	16 AMPS (1.92 KVA)	#8 AWG	130 FEET
		#10 AWG	85 FEET
		#12 AWG	55 FEET
208 VOLT	9 AMPS (1.87 KVA)	#8 AWG	440 FEET
		#10 AWG	285 FEET
		#12 AWG	170 FEET
	12 AMPS (2.49 KVA)	#8 AWG	330 FEET
		#10 AWG	215 FEET
		#12 AWG	130 FEET
	16 AMPS (3.33 KVA)	#8 AWG	250 FEET
		#10 AWG	160 FEET
		#12 AWG	95 FEET
277 VOLT	9 AMPS (2.49 KVA)	#8 AWG	660 FEET
		#10 AWG	420 FEET
		#12 AWG	270 FEET
	12 AMPS (3.32 KVA)	#8 AWG	495 FEET
		#10 AWG	315 FEET
		#12 AWG	200 FEET
	16 AMPS (4.43 KVA)	#8 AWG	370 FEET
		#10 AWG	235 FEET
		#12 AWG	150 FEET
480 VOLT	9 AMPS (2.49 KVA)	#8 AWG	1320 FEET
		#10 AWG	840 FEET
		#12 AWG	540 FEET
	12 AMPS (3.32 KVA)	#8 AWG	980 FEET
		#10 AWG	620 FEET
		#12 AWG	400 FEET
	16 AMPS (4.43 KVA)	#8 AWG	740 FEET
		#10 AWG	460 FEET
		#12 AWG	300 FEET

ABBREVIATIONS

A	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
A.I.C.	AMPERE INTERRUPTING CAPACITY
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C.	CONDUIT
C.B.	CIRCUIT BREAKER
CD	CANDELA
CKT	CIRCUIT
C.O.	CONDUIT ONLY, WITH PULL WIRE
C.T.	CURRENT TRANSFORMER
(E)	EXISTING
EL	EVENING LIGHT
EMT	ELECTRICAL METALLIC CONDUIT
GA.	GAUGE
GND	GROUND
Isc	SHORT CIRCUIT AMPERES
ISO	ISOLATED
KVA	KILO VOLT AMPERE
KW	KILO WATT
LT.	LIGHT
MIN.	MINIMUM
MTD.	MOUNTED
N	NEUTRAL
(N)	NEW
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
PH	PHASE
(R)	REMOVE
RCPT.	RECEPTACLE
S.M.S	SHEET METAL SCREW
TYP.	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
VA	VOLT-AMPERES
W	WIRE, WATT
WP	WEATHER PROTECTED
XFMR	TRANSFORMER

ELECTRICAL SYMBOL LIST

- (AP) — FUTURE WIRELESS ANTENNA CEILING MOUNTED ON SURFACE.
- #/#C — CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.
- CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
- CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
- CONDUIT TURNED AND RISED UP
- CONDUIT TURNED AND DROPPED DOWN
- CONDUIT WITH CAP
- CONDUIT STUB WITH INSULATED BUSHING
- 1 — DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET

** UNDERGROUND DIGGING CAUTION **

USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED UTILITY CABLES, CONDUITS, AND PIPING. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.):

811 or 1-800-642-2444

TWO WORKING DAYS BEFORE DIGGING TO VERIFY UNDERGROUND UTILITIES.

GROUND PENETRATION RADAR (GPR)

AREA CONTAINS EXISTING POWER AND SINGLE CONDUITS/CONDUCTORS AND THE LOCATIONS ARE UNKNOWN. THE CONTRACTOR SHALL USE GROUND PENETRATING RADAR (GPR) TO IDENTIFY UNDERGROUND INFRASTRUCTURE (CONDUITS AND PIPES) AND HAND DIG AROUND EXISTING UNDERGROUND INFRASTRUCTURE (CONDUITS AND PIPES).

ELECTRICAL SHEET INDEX

No. OF SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	E0.01	ELECTRICAL SHEET INDEX, ABBREVIATIONS, SYMBOL LIST, AND NOTES
2	E1.01	PARTIAL SITE PLAN - ELECTRICAL

APPLICABLE CODES AND REGULATIONS

THE FOLLOWING ARE THE ENFORCEABLE CODES FOR FACILITIES UNDER THE AUTHORITY OF THE ALFRED E. ALQUIST HOSPITAL FACILITIES SEISMIC SAFETY ACT OF 1983:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)).

2022 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR (2021 IBC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR (2020 NEC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR (2021 UMC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR (2021 UPC AND 2022 CALIFORNIA AMENDMENTS).

2022 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR (2021 IFC AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE - PART 11, TITLE 24

2015 N.F.P.A. 101 LIFE SAFETY CODE

2016 N.F.P.A. 72 NATIONAL FIRE ALARM CODE

2016 EDITION TITLE 19, CALIFORNIA CODE OF REGULATIONS, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

TITLE 8, CALIFORNIA CODE OF REGULATIONS, INDUSTRIAL STANDARDS.

TITLE 22, CALIFORNIA CODE OF REGULATIONS, SOCIAL SECURITY DIVISIONS 5, 7.

THE DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION (HCAI) REGULATIONS.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

FACTORY MUTUAL SYSTEM (FM) REQUIREMENTS.

ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS

PCOE
GOLD IN EDUCATION

Revisions

Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

AGENCY APPROVAL

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PROJECT #: 23044.21
PROJECT MGR: Y. Van Zanten

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REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/25 — ELECTRICAL — STATE OF CALIFORNIA

08/23/2023

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HY Architects Project number: 6014

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Project

SITE IMPROVEMENTS

Sheet Title

ELECTRICAL SHEET INDEX, ABBREVIATIONS, SYMBOL LIST, AND NOTES

Client Project Number:

Scale: AS NOTED
Drawn By: KL
Checked By: YVZ
Issue Date:
Revit Version: 2023

Sheet E0.01 2

Sheet 1 of 13

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

Aug 23, 2023 – 2:21pm, / kerlo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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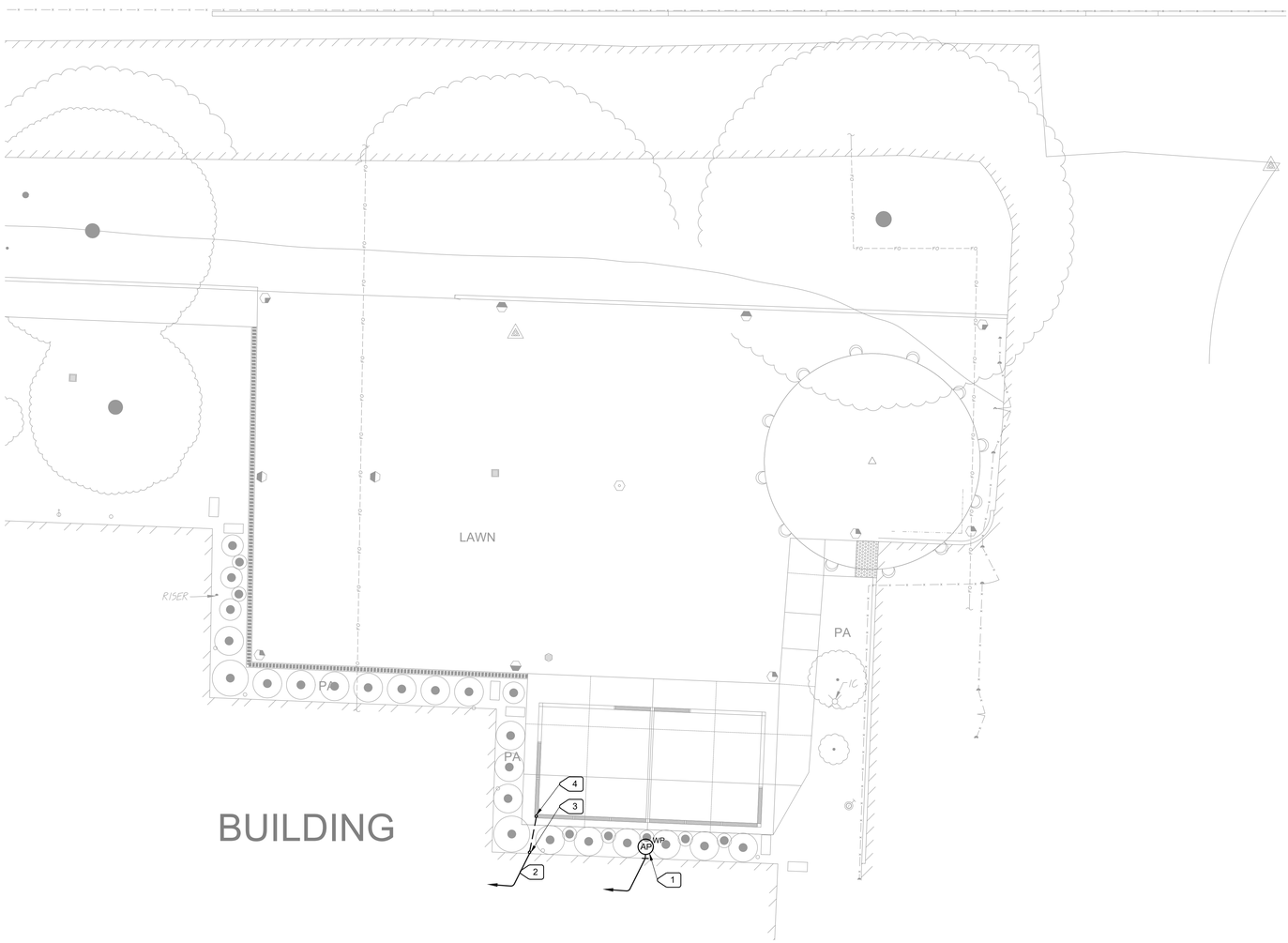
GENERAL NOTES

1. CEC 210.4 REQUIRES THAT ALL MULTI-WIRE BRANCH CIRCUITS THAT SHARE A NEUTRAL CONDUCTOR MUST HAVE A BREAKER HANDLE TIE SO THAT EACH CIRCUIT IS DISCONNECTED SIMULTANEOUSLY OR A SEPARATE NEUTRAL CONDUCTOR MUST BE USED FOR EACH CIRCUIT.

NUMBERED NOTES

1. LOCATE FOR WIRELESS ACCESS POINT. VERIFY EXACT HEIGHT WITH PCOE I.T. DEPARTMENT. PROVIDE 1" CONDUIT WITH (2) CAT6 DATA CABLES BACK TO MDF. RUN CONDUIT IN ACCESSIBLE CEILING SPACE.
2. 1" CONDUIT WITH 2 #10 (LIGHTING), 2 #10 (RECEPTACLES), AND 1 #10 GND. TO PANEL "1L" IN ELECTRICAL ROOM 134. PROVIDE (2) 20/1 CIRCUIT BREAKERS SIMILAR TO EXISTING TYPE IN EXISTING SPACES. UPDATE PANEL DIRECTORY. WHERE POSSIBLE, USE EXISTING AVAILABLE PATHWAY.
3. RISE WITH CONDUIT ALONG EXTERIOR BUILDING WALL. TURN INTO BUILDING IN ACCESSIBLE CEILING SPACE. PAINT EXPOSED CONDUIT TO MATCH BUILDING WALL.
4. RISE IN UPFIT BEAM. EXTEND LIGHTING CIRCUIT TO LIGHTING RECEPTACLE AND RECEPTACLE CIRCUIT TO POWER GARAGE. VERIFY LOCATIONS WITH UPFIT DRAWING SUBMITTAL.



1 / E1.01 PARTIAL SITE PLAN - ELECTRICAL

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

PCOE
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Revisions			
Delta	Date	Revisions	By
2	08-23-2023	ADDENDUM #2	YJV

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Project

SITE IMPROVEMENTS

Sheet Title

PARTIAL SITE PLAN - ELECTRICAL

Client Project Number:

Scale: AS NOTED	Sheet E1.01 2
Drawn By: KL	
Checked By: YVZ	
Issue Date:	
Revit Version: 2023	Sheet 3 of 13

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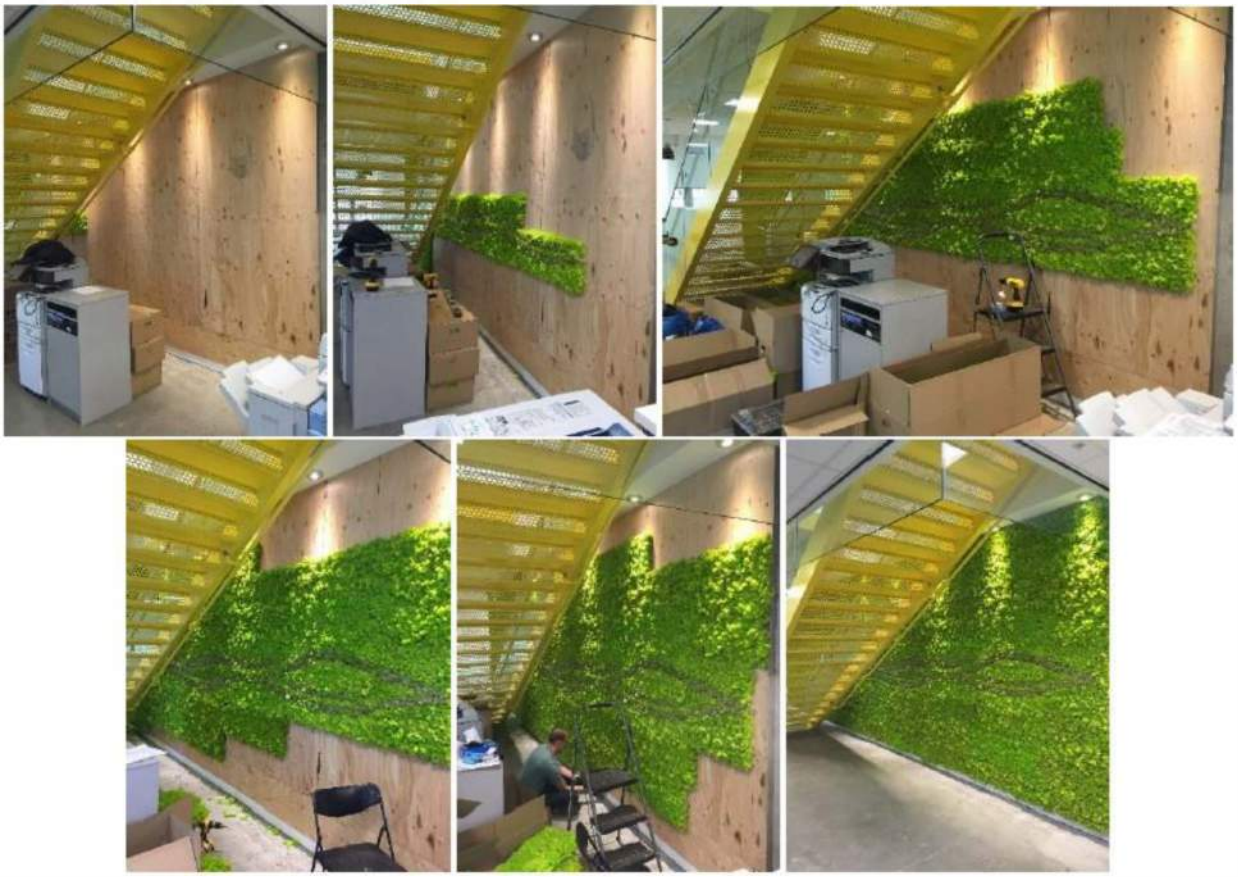
Aug 23, 2023 – 2:21pm, / kerlo

Quiet Earth
MOSS

MOSS WALL INSTALLATION GUIDE

This installation guide will explain the steps and provide all the necessary tools to assemble a moss wall efficiently and simply, as shown in the timeline below.

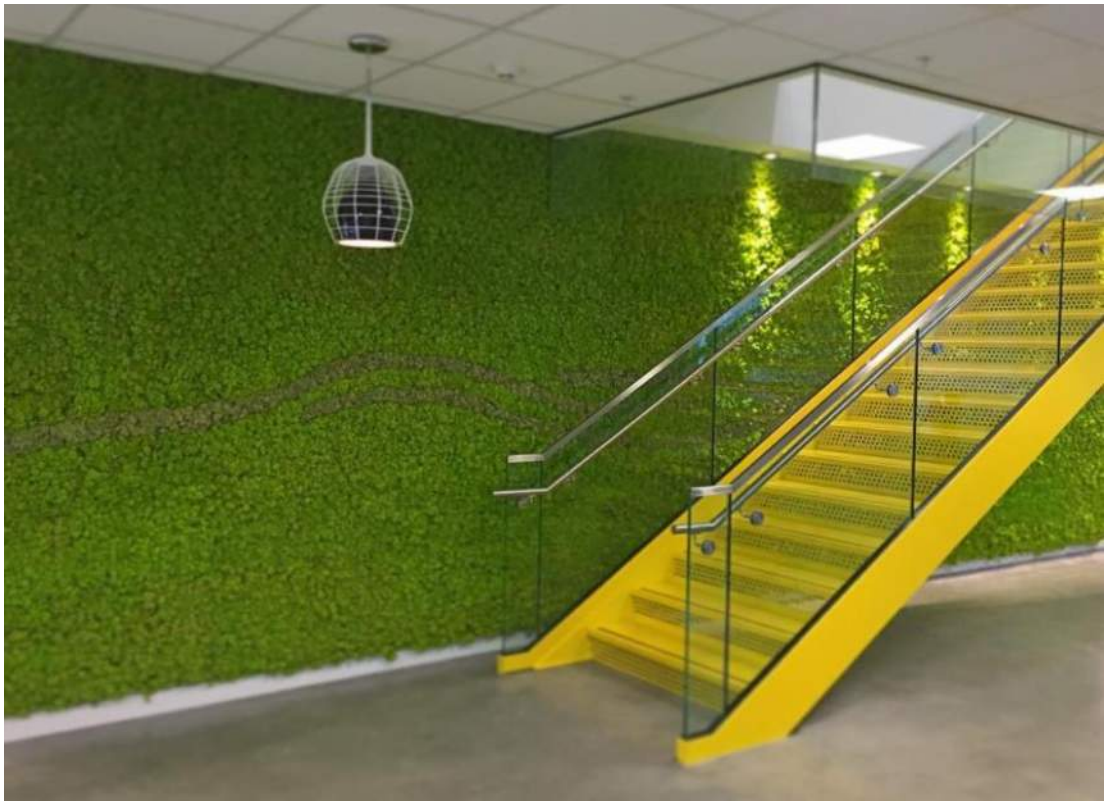


Moss is glued onto a sheet of 9mm or 12mm ezoBord.

Place the moss panel against the wall and screw it directly to the wall.
The moss panels are 1.5 lbs. per square foot. They can be screwed directly to the drywall.
Based on your wall structure, we recommend using 1 ¼" to 2 ¼" screws.

If you observe a hole or a seam between 2 tiles, patch it with some bulk moss, by gluing it in with a glue gun. We recommend wearing nitrile coated work gloves for protection.

COMPLETE!



NOTE: Moss panels will be labelled on the back to correspond with the reference drawing, so you know what order to attach panels to the wall.

Reindeer Moss: Keep moss panels wrapped up until right before you install, so moss is softer while installing. Reindeer moss is dryer in the winter months but softens back up in the summer.

Sheet/Pole/Mood Moss: Unwrap moss panels as soon as you can, so the panels can air out. These moss types don't dry out like Reindeer moss but tends to have a stronger mossy scent.

Ayrsonics

1-844-441-1122

QuietEarthMoss.com

sales@ayrsonics.com