ADDENDUM NO. 03

CYPRESS COLLEGE
Fine Arts Swing Space

DSA #: 04-120540

Project Site:
Cypress College
9200 Valley View St
Cypress, CA 90630

DLR Group #: 75-21204-02

May 19, 2022

Owner: North Orange Community College District
1830 W. Romneya Drive
Anaheim CA 92801-1819

Architect: DLR GROUP
700 South Flower, 22nd Floor
Los Angeles, CA 90017

Construction Manager: Sundt Construction
41 Corporate Park, Suite 310
Irvine, CA, 92606

The following changes, deletions, additions and/or alterations in, on and to the drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby.

Careful note of this addendum shall be taken by all parties of interest so that the proper allowance may be made in all computations, estimates, and contracts, and all trades affected shall be fully advised in the performance of the work which will be required of them.

GENERAL CLARIFICATIONS

ITEM	SHEET	NARRATIVE
AD-3-1	NA	An additional *non-mandatory* job walk will be available Friday, May 20, 2002 at 1:00PM. Meeting location will be the SEM building south entrance near the pond.

PROJECT MANUAL & SPECIFICATIONS

Specifications: Revised sections to the specification are noted as "*Revised*" in the section header and specific changes are noted in underline or ~~strikeout~~ with the corresponding addendum reference "*ADD 03*". Reissued sections with comprehensive revisions are noted as "Reissued" in the section header. New issued sections are noted as "Issued" in the section header.

ITEM	SHEET	NARRATIVE
AD-3-2	Notice Inviting Bids, Section 1.	Revise 1. Submittal of Bid Proposals as follows: All bids shall be made and presented only on the forms presented by the District. Bids shall be received at **1830 W. Romneya Drive,** ~~8th~~ **2nd Floor, Anaheim, CA 92801** and shall be opened and publicly read aloud at the above stated time and place. Any bids received after the time specified above or after any extensions due

		to material changes shall be returned unopened. The District reserves the right to reject any or all bids or to waive any irregularities or informalities in any bids or in the bidding. It is each bidder's sole responsibility to ensure its bid is timely delivered and received at the location designated as specified above. Any bid received at the designated location after the scheduled closing time for receipt of bids shall be returned to the bidder unopened.
AD-3-3	(4 pages)	00 00 01 Table of Contents a. Added three sections
AD-3-4	(4 pages)	01 12 16 Phasing of the Work – New Section
AD-3-5	(5 pages)	01 32 10 Construction Schedule – Deleted section
AD-3-6	(5 pages)	01 32 13 Construction Schedule – New Section
AD-3-7	(24 pages)	08 71 00 Door Hardware a) Added door HW set 07
AD-3-8	(8 pages)	09 30 13 Ceramic Tiling a. 2.3 Added drawing tag and revised sheet number
AD-3-9	(3 pages)	09 51 13 Acoustical Panel Ceilings a. 1.5: Added drawing tag, Revised size indication
AD-3-10	(4 pages)	09 65 13 Resilient Base and Accessories a. Revised 2.1: Colors b. Revised 2.2: Rubber Molding Accessory
AD-3-11	(5 pages)	09 65 16 Resilient Tile Flooring a. Revised 1.2 Summary b. Revised 2.2 Solid Floor Tile c. Deleted 2.3, C Floor polish
AD-3-12	(8 pages)	09 68 16 Sheet Carpeting a. Added 2.1: Drawing tag
AD-3-13	(6 pages)	09 84 00 Room Acoustic Components a. 2.3: Deleted drawing tag
AD-3-14	(12 pages)	10 14 00 Signage a. 2.02: Revised basis of design manufacturer b. 2.03: Deleted manufacturer
AD-3-15	(5 pages)	10 28 00 Toilet and Bath Accessories a. Revised Section title b. Revised 2.2, A: Public Use Washroom Accessories c. Revised 2.2, A: Toilet Tissue Roll Dispenser d. Revised 2.2, B: Combination Towel (Folded)Dispenser/Waste Receptacle e. Revised 2.2, D: Liquid Soap Dispenser f. Revised 2.2, G: Mirror Unit

DRAWINGS

ITEM	SHEET	NARRATIVE
AD-3-16	(1 pg typ)	AD1.1 First Floor Demolition Plan a) Legend revised
AD-3-17		AD1.2 Second Floor Demolition Plan

		a) Legend revised
AD-3-18		AD1.3 Third Floor Demolition Plan a) Legend revised
AD-3-19		AD3.1 First Floor Reflected Ceiling Demolition Plan a) Legend revised b) Keynote “D19” added
AD-3-20		A1.1 First Floor Plan a. Revised door schedule b. Added new door frame c. Revised door FA129D d. Revised room numbers e. Added items to legend f. Revised keynote N3, N29 g. Removed keynote N8 h. Revised dual deep sink at Ceramic lab
AD-3-21		A1.2 Second Floor Plan a) Revised room numbers b) Added new legend c) Removed rooms FA214 & 208 from “NIC” d) Revised door schedule
AD-3-22		A1.3 Third Floor Plan a) Revised room numbers b) Added new legend c) Removed casework in FA221, FA225, FA313 d) Revised door schedule e) Added push plates at FA221
AD-3-23		A3.1 First Floor Reflected Ceiling Plan a) Added dimensions at restrooms 118 & 120 b) Revised keynotes C5 & C9 c) Revised legend
AD-3-24		A4.1 Enlarged Restroom Plans and Elevations a) Revised keynote N9 & N29 b) Removed General Notes “C, G & H” c) Removed General note for Accessibility “G” d) Added “TD/WR” to Abbreviations
AD-3-25		A10.0 Wall types and finish schedule a) Revised Finish Schedule
AD-3-26		A10.1 Details – Interior a) Removed callouts from details 11, 12, 54 & 55 b) Revised header detail ref. on detail 54 c) Added spec section for mirror on detail 34
AD-3-27		A11.1 Details – Casework a) Revised detail numbers b) Added detail ref. on detail 25 c) Revised deep sink elevation on detail 22

AD-3-28		M1.1 First Floor HVAC Plan a) Revised sheet note #7. b) Revised sheet note #9.
AD-3-29		M1.2 Second Floor HVAC Plan a) Updated “Not in Contract” surface area.
AD-3-30		M1.2 Second Floor HVAC Plan a) Updated “Not in Contract” surface area.
AD-3-31		PD2.1 OVERALL FIRST FLOOR PLUMBING DEMOLITION PLAN a) Existing single height electric water cooler to be demolished b) Existing sink demolishing notes updated to match arch drawings.
AD-3-32		PD2.2 OVERALL SECOND FLOOR PLUMBING DEMOLITION PLAN a) Existing single height electric water cooler to be demolished
AD-3-33		PD2.3 OVERALL THIRD FLOOR PLUMBING DEMOLITION PLAN a) Existing single height electric water cooler to be demolished.
AD-3-34		P2.1 OVERALL FIRST FLOOR PLUMBING PLAN a) Existing single height electric water cooler to be demolished b) Ceramics lab sink updated to S-2 and detail callout added
AD-3-35		P6.1 PLUMBING SCHEDULE a) S-2 added to plumbing fixture schedule b) Detail 2 for S-2 installation added
AD-3-36		E0.1- ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES 1. Added LIGHTING FIXTURE SCHEDULE to the sheet.
AD-3-37		E0.2- TITLE 24 FORMS 1. Updated Title 24 forms to include lighting fixtures in level 2 and 3 restrooms.
AD-3-38		E1.0- OVERALL FIRST FLOOR LIGHTING PLAN 1. Updated sheet notes.
AD-3-39		E1.1- OVERALL SECOND FLOOR LIGHTING PLAN 1. New sheet added to set.
AD-3-40		E1.2- OVERALL THIRD FLOOR LIGHTING PLAN 1. New sheet added to set.
AD-3-41		E2.1- OVERALL FIRST FLOOR POWER PLAN 1. Added hardwired data outlets for the following rooms: a. JOURNALISM/COMPUTER LAB FA120/121 (14 computers) b. MEDIA & GRAPHICS DESIGN LAB-2 FA220/FA220A-2 (30 computers) 2. Added power outlets in 3D ART FA130 for the following equipment: a. (1) PORTABLE FUME EXTRACTOR

		b. (2) DUST COLLECTORS 3. Updated and added to sheet notes block. 4. Added general notes to provide new data outlets for new telecom equipment. 5. Added dimensions for junction boxes serving MEDIA & GRAPHICS DESIGN LAB-2. 6. Located automatic door operator push button. 7. Relocated panelboard '1A'.
AD-3-42		E2.2- OVERALL SECOND FLOOR POWER PLAN 1. Added hardwired data outlets for the following rooms: a. THEATRICAL LIGHTING LAB 205 b. COMMERCIAL MUSIC LAB FA214 2. Updated and added to sheet notes block. 3. Added general notes to provide new data outlets for new telecom equipment. 4. Located automatic door operator push button.
AD-3-43		E2.3- OVERALL THIRD FLOOR POWER PLAN 1. Updated and added to sheet notes block. 2. Added general notes to provide new data outlets for new telecom equipment. 3. Located automatic door operator push button.
AD-3-44		E6.1- ELECTRICAL DETAILS 1. Added 'DUAL CHANNEL DETAIL' to the sheet.
AD-3-45		E7.1- ELECTRICAL SCHEDULES 1. Updated panelboard directory '2C'.
AD-3-46		E7.2- ELECTRICAL SCHEDULES 1. Updated panelboard directory '1D'.

RESPONSES TO PRE-BID CLARIFICATIONS ("PBC")

ITEM	SHEET	NARRATIVE
AD-2-28	(5 pages)	Responses to PBC 01 through 05

REFERENCE DOCUMENTS

ITEM	SHEET	NARRATIVE

AD-2-29	(9 sheets)	Furniture and Equipment Floor Plans from Dovetail Consulting dated 5/13/22 for reference of planned uses only

END OF ADDENDUM

TABLE OF CONTENTS

Revised, Addendum 03, 05/19/22
Revised, Addendum 02, 04/29/22

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS
PROCUREMENT AND CONTRACTING INFORMATION PENDING FROM OWNER
00 01 07 SEALS PAGE

DIVISION 01 – GENERAL REQUIREMENTS
01 10 00 SUMMARY ***ADD 02***
01 11 00 SUMMARY OF WORK ***ADD 02***
01 12 16 PHASING OF THE WORK ***ADD 03***
01 21 00 ALLOWANCES ***ADD 02***
01 25 00 SUBSTITUTION PROCEDURES ***ADD 02***
01 26 00 CONTRACT MODIFICATION PROCEDURES
01 26 13 REQUEST OF INFORMATION PROCEDURES ***ADD 02***
01 29 00 PAYMENT PROCEDURES ***ADD 02***
01 29 73 SCHEDULE OF VALUES ***ADD 02***
01 29 76 PROGRESS PAYMENT PROCEDURES ***ADD 02***
01 31 00 PROJECT MANAGEMENT AND COORDINATION ***ADD 02***
01 31 13 PROJECT COORDINATION ***ADD 02***
01 31 19 PROGRESS MEETINGS ***ADD 02***
01 31 30 ELECTRONIC PROJECT MANAGEMENT INFORMATION SYSTEM
~~01 32 10 CONSTRUCTION SCHEDULE~~ ***ADD 03***
01 32 13 CONSTRUCTION SCHEDULE ***ADD 03***
01 32 29 PROJECT FORMS ***ADD 02***
01 32 33 PHOTOGRAPHIC DOCUMENTATION
01 33 00 SUBMITTAL PROCEDURES ***ADD 02***
01 35 27 SITE SAFETY
01 40 00 QUALITY REQUIREMENTS
01 41 00 EIR – (CC) ***ADD 02***
01 42 00 REFERENCES
01 42 13 ABBREVIATIONS, SYMBOLS AND ACONYMS
01 45 23 TESTING AND INSPECTION ***ADD 02***
01 45 24 ENVIRONMENTAL IMPORT & EXPORT ***ADD 02***
01 50 00 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS ***ADD 02***
01 57 23 STORMWATER POLLUTION CONTROL
01 60 00 PRODUCT SUBSTITUTION PROCEDURES ***ADD 02***
01 60 10 MATERIALS AND EQUIPMENT
01 62 11 SUBSTITUTION REQUEST FORM ***ADD 02***
01 70 00 EXECUTION REQUIREMENTS
01 71 23 FIELD ENGINEERING SURVEY CONTROL ***ADD 02***
01 73 29 CUTTING & PATCHING ***ADD 02***
01 74 17 CLEANING AND SITE APPEARANCE
01 74 19 CONSTRUCTION WASTE MANAGEMENT ***ADD 02***
01 77 00 CONTRACT CLOSEOUT ***ADD 02***
01 78 23 OPERATION AND MAINTENANCE DATA
01 78 36 WARRANTIES WARRANTY PROCEDURES ***ADD 02***

01 78 39 PROJECT RECORD DOCUMENTS
01 79 00 DEMONSTRATION AND TRAINING
01 86 20 TEST AND BALANCE

DIVISION 02 – EXISTING CONDITIONS
02 41 19 SELECTIVE STRUCTURE DEMOLITION

DIVISION 03 – CONCRETE
03 31 00 CONCRETE WORK

DIVISION 04 – MASONRY
NOT USED

DIVISION 05 – METALS
NOT USED

DIVISION 06 – WOOD, PLASTICS AND COMPOSITES
06 10 53 MISCELLANEOUS ROUGH CARPENTRY
06 20 23 INTERIOR FINISH CARPENTRY
06 41 16 PLASTIC LAMINATE-CLAD ARCHITECTURAL CABINETS

DIVISION 07 – THERMAL AND MOISTURE PROTECTION
07 84 13 PENETRATION FIRESTOPPING
07 84 43 JOINT FIRESTOPPING
07 92 00 JOINT SEALANTS
07 92 19 ACOUSTICAL JOINT SEALANTS

DIVISION 08 – OPENINGS
08 14 00 WOOD DOORS
08 71 00 DOOR HARDWARE ***ADD 02***
08 71 13 AUTOMATIC DOOR OPERATORS

DIVISION 09 – FINISHES
09 29 00 GYPSUM BOARD
09 30 13 CERAMIC TILING
09 51 13 ACOUSTICAL PANEL CEILINGS
09 65 13 RESILIENT BASE AND ACCESSORIES
09 65 19 RESILIENT TILE FLOORING
09 68 16 SHEET CARPETING
09 84 00 ROOM ACOUSTIC COMPONENTS
09 91 00 PAINTING

DIVISIONS 10 - SPECIALTIES
10 14 00 SIGNAGE
10 21 16.14 STAINLESS STEEL TOILET COMPARTMENTS
10 28 00 TOILET AND BATH ACCESSORIES
10 44 13 FIRE PROTECTION CABINETS
10 44 16 FIRE EXTINGUISHERS

DIVISIONS 11 – EQUIPMENT

NOT USED

DIVISIONS 12 – FURNISHINGS
NOT USED

DIVISIONS 13 – SPECIAL CONSTRUCTION
13 52 00 SEISMIC REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS

DIVISIONS 14 – CONVEYING EQUIPMENT
NOT USED

DIVISIONS 21 – FIRE SUPPRESSION
NOT USED

DIVISIONS 22 – PLUMBING
SEE SHEET SPECIFICATIONS

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING
SEE SHEET SPECIFICATIONS

DIVISIONS 24 – 25
NOT USED

DIVISION 26 – ELECTRICAL
26 35 00 COMMON WORK RESULTS FOR ELECTRICAL
26 05 03 DEMOLITION OF ELECTRICAL SYSTEMS
26 05 19 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
26 05 29 HANGERS AND SUPPORT FOR ELECTRICAL SYSTEM
26 05 33 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
26 05 48.16 SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS
26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEM
26 27 26 WIRING DEVICES
26 28 16 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
26 51 19 LED INTERIOR LIGHTING
26 52 13 EMERGENCY AND EXIT LIGHTING

DIVISION 27 – COMMUNICATIONS
NOT USED

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY
NOT USED

DIVISIONS 29 – 30
NOT USED

DIVISION 31 – EARTHWORK
NOT USED

DIVISION 32 EXTERIOR IMPROVEMENTS
32 31 13 CHAINLINK FENCING AND GATES

DIVISION 33 UTILITIES
NOT USED

DIVISIONS 34 – 49
NOT USED

END OF TABLE OF CONTENTS

SECTION 01 12 16

PHASING OF THE WORK

Issued, Addendum 03, 5/19/22

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Requirements for phasing of the Work include logistics, phasing, and completion of designated phases prior to commencement of subsequent phases.

1.02 RELATED SECTIONS

A. General Conditions.

B. Construction Services Agreement.

C. Section 01 11 00: Summary of Work.

D. Section 01 31 13: Project Coordination.

E. Section 01 32 13: Construction Schedule.

F. Section 01 33 00: Submittal Procedures.

G. Section 01 50 00: Construction Facilities and Temporary Controls.

H. Section 01 77 00: Closeout Procedures.

1.03 SUBMITTALS

A. Contractor shall submit a Project site logistics plan in accordance with and as required by this Section.

PART 2 – PRODUCTS (Not applicable)

PART 3 – EXECUTION

3.01 LOGISTICS

A. Prior to commencement of the Work, Contractor shall prepare and submit to the District Representative, a detailed Project site logistic plan, for each phase of the Work, in the same size and scale of the Drawings, setting forth Contractor plan of the Work relative to the following, but not limited to, items:

1. Overall Site Usage Plan – Attached Appendix 'A' delineates the area available to the Contractor for the execution of the work, specified entries and exits to the site for deliveries, and employee/workforce parking.
2. Limits of Work for each Phase of the Work (see section 3.04 below).
3. In accordance with local ordinances a truck access route to and from the Project site.
4. The identification of any overhead wire restrictions for power, street lighting, signal, and/or cable.
5. Local sidewalk access and street closure requirements.
6. Protection of sidewalk pedestrians and vehicular traffic.
7. Project site fencing and access gate locations.
8. Construction parking.
9. Material staging and/or delivery areas.

10. Material storage areas.
11. Temporary trailer locations.
12. Temporary service location and proposed routing of all temporary utilities.
13. Location of temporary and/or accessible fire protection
14. Trash removal and location of dumpsters.
15. Concrete pumping locations.
16. Crane locations.
17. Location of portable sanitary facilities.
18. Mixer truck wash out locations.
19. Traffic control signage.
20. Perimeter and site lighting.
21. Stockpile and/or lay down areas.
22. Emergency Vehicle Access Routes.
23. Temporary Accessible Access Ramps and Pathways.
24. Demolition Safety Barricades and/or sound walls.

B. A revised Project site logistic plan may be required by the District Representative for separately identified phases of the Work as set forth in this Section.

C. Contractor is responsible for securing and obtaining all approvals and permits from authorities having jurisdiction relative to logistic plan activities.

3.02 PHASING OF THE WORK

A. Project will be constructed in separate Milestone increments, as identified or as described in this Section and/or the Contract Documents. Phasing will also delineate Work to be completed in each designated phase. Unless otherwise approved or directed by the District Representative, each phase shall be completed according to the approved Construction Schedule prior to the commencement of the next subsequent phase. Contractor shall incorporate and coordinate the Work of Separate Work Contracts relative to this Project into the Phasing and Construction Schedule.

B. Contractor shall install all necessary Work for phased Work before completion of the designated phase.

3.03 PHASING OF THE WORK – GENERAL

A. Contractor shall prepare the Milestone Schedule in order to complete the Work and related activities in accordance with the phasing plan. Contractor shall include all costs to complete all Work within the Milestones and Contract Time.

B. Owner will be seriously damaged by not having all Work completed within the Milestones and/or Contract Time. It is mandatory the Work be complete within the Milestones and Contract Time.

3.04 PHASING OF THE WORK – SPECIFIC

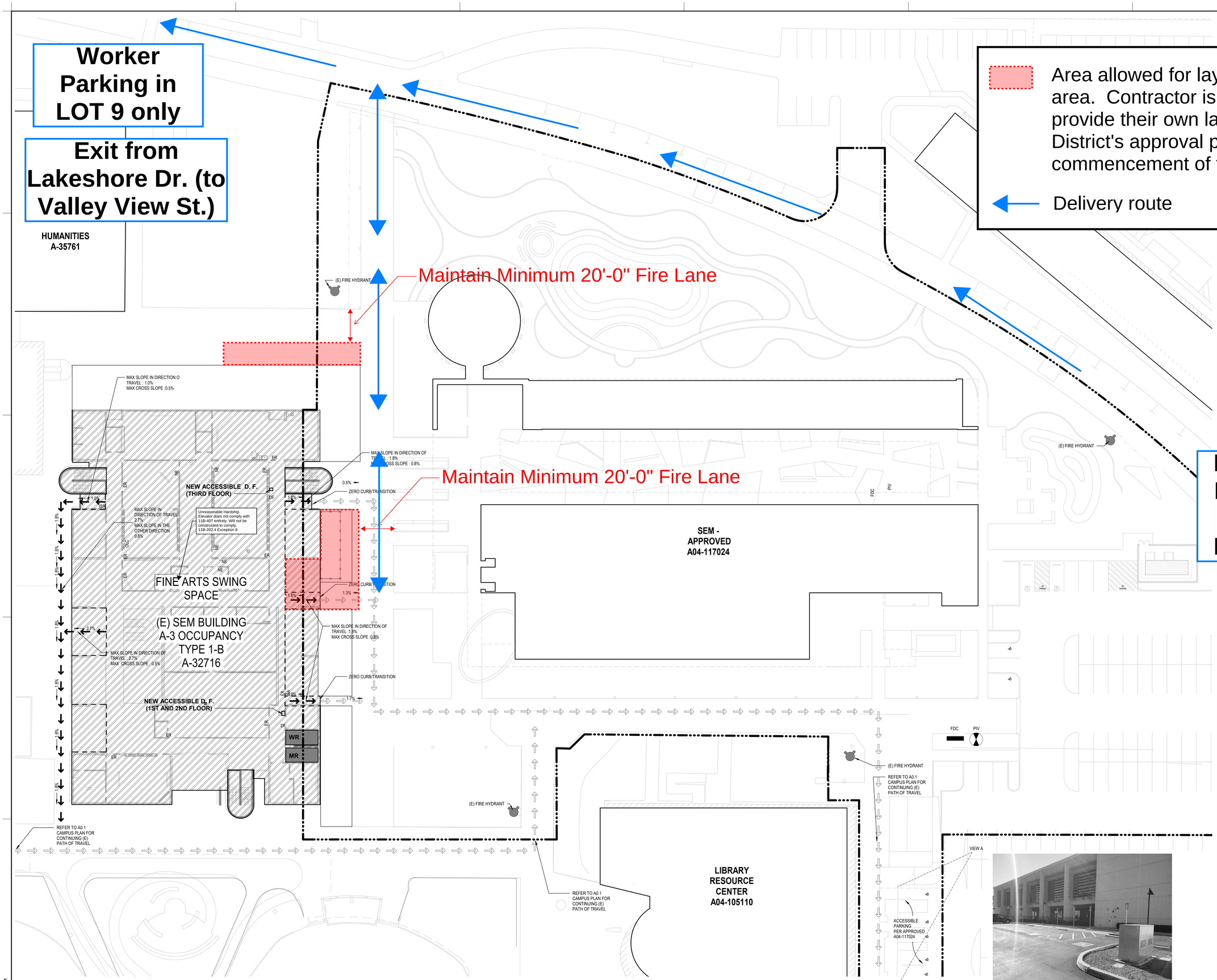
A. Contractor shall prepare a Construction Schedule and shall complete the Milestones indicated in the General Conditions.

B. Contractor shall plan the work to allow all rooms denoted as “NIC” in the Contract Documents to be available for District to occupy 30 days prior to substantial completion. Contractor to protect and provide access as necessary.

END OF SECTION 01 12 16

01 12 16 – PHASING OF THE WORK

APPENDIX A



1 A0.2 SITE PLAN
SCALE: 3/64" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-120540 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2022

LICENSED ARCHITECT
JOHN A. JEWETT
C-36282
05/31/2023
STATE OF CALIFORNIA

DLR Group
© DLR Group

UNDER CONSTRUCTION - PER APPROVED DSA A04-117024
BUILDINGS NOT IN SCOPE
BUILDINGS IN SCOPE
NOT IN SCOPE - AREA UNDER CONSTRUCTION - PER APPROVED DSA A04-117024
DF NEW ACCESSIBLE DRINK FOUNTAINS
MR MEN'S RESTROOM
WR WOMEN'S RESTROOM
POST INDICATOR VALVE PER APPROVED DSA A04-117024 UNDER CONSTRUCTION
FIRE WATER UTILITIES PER APPROVED DSA A04-117024 UNDER CONSTRUCTION
(E) FIRE HYDRANT TO REMAIN
(N) CHAINLINK FENCE

PATH OF TRAVEL (P.O.T.)

PATH OF TRAVEL - UNDER CONSTRUCTION PER APPROVED DSA A#04-117024
SITE VERIFIED PATH OF TRAVEL MAX 5% IN DIRECTION OF TRAVEL 2% SLOPE IN OTHER DIRECTION

PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307). DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH C.B.C. 11B.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THEREQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

Cypress College Swing Space
9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL
2/4/2022
Revisions

75-21204-00

SITE PLAN

A0.2

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_AR_2020.rvt
2/4/2022 2:12:04 PM

SECTION 01 32 13

CONSTRUCTION SCHEDULE

Issued, Addendum 03, 5/19/22

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Construction Schedule procedures, preparation, submittal, updates, and revisions.

1.02 RELATED REQUIREMENTS

A. General Conditions.

B. Construction Services Agreement.

C. Section 01 11 00: Summary of Work.

D. Section 01 12 16: Phasing of the Work.

E. Section 01 29 73: Schedule of Values Procedures.

F. Section 01 29 76: Progress Payment Procedures.

G. Section 01 31 13: Project Coordination.

H. Section 01 33 00: Submittal Procedures.

I. Section 01 50 00: Construction Facilities and Temporary Controls.

J. Section 01 78 36: Warranty Procedures.

1.03 PROCEDURES

A. Within thirty (30) calendar days after date of Notice to Proceed, Contractor shall submit to District Representative for review, a detailed Construction Schedule ("Preliminary Baseline Schedule") setting forth all requirements for complete execution of the Work.

B. Within seven (7) calendar days after receipt of the District Representative's review comments, submit a final Construction Schedule acceptable to District Representative ("Approved Baseline Schedule").

C. Include a written summary narrative sufficiently comprehensive to explain basis of Contractor's approach to work.

D. If a Construction Schedule is considered by District Representative to not be in compliance with any requirement of the Contract, Contractor will be notified to review and revise the Construction Schedule and bring it into compliance. Failure of Contractor to submit a Construction Schedule in full compliance with the Contract Documents will result in withholding of progress payment in accordance with the General Conditions or Construction Services Agreement. The Construction Schedule is to be used in evaluating progress for payment approval.

E. Subsequently with each Progress Payment Request, Contractor shall deliver to District Representative an updated Construction Schedule reflecting Work progress to the end of the Progress Payment Request period. Each such Construction Schedule shall indicate actual progress to date in execution of the Work, together with a projected schedule for completion of all the Work.

1.04 SCHEDULE SUBMITTAL PREPARATION GUIDELINES

A. The Contract Work shall be scheduled and progress monitored using a Critical Path Method (CPM) network type scheduling system. Schedule shall be broken into sub-activities which shall,

as a minimum, include major suppliers, all submittal approvals, all major trades, plumbing, mechanical, electrical, security, fire, and elevators and escalators. Scheduling system shall indicate all inter-relationships between trades and suppliers.

B. Contractor shall utilize the Critical Path Method (CPM) in the development and maintenance of the construction schedule network.

C. Duration and events indicated on schedule shall conform to phasing set forth in Section 01 12 16: Phasing of the Work and shall show any area or building within a particular phase. Schedule shall indicate any and all Contract "milestone events" and other milestones agreed to by District Representative, but no other manually-imposed dates will be accepted unless approved by District Representative.

D. Construction Schedule shall represent a practical plan to complete the Work within the Contract time requirement.

1. A schedule extending beyond Contract time or less than Contract time will not be acceptable.

2. A schedule found unacceptable by District Representative shall be revised by Contractor and resubmitted.

E. Construction schedule shall clearly indicate sequence of construction activities, grouped by applicable phase and sorted by areas, buildings, or facilities within phase, and shall specifically indicate:

1. Start and completion of all Work items, their major components, and interim milestone completion dates, as determined by Contractor and District Representative.

2. Activities for procurement, delivery, installation of equipment, materials, and other supplies, including:

a. Time for submittals, resubmittals, and reviews. Include decision dates for selection of finishes.

b. Time for manufactured products for the Work fabrication and delivery.

c. Interdependence of procurement and construction activities.

d. As applicable, dates for testing, balancing equipment, and final inspection.

F. Schedule shall be in sufficient detail to assure adequate planning and execution of the Work.

1. Each task activity shall range in duration from a 1 workday minimum to a fifteen (15) workday maximum and shall be total of actual days required for completion. The activity duration shall include consideration of weather impact on completion of that activity.

2. Schedule shall be suitable, in judgment of District Representative, to allow monitoring and evaluation of progress in performance of the Work; it shall be calendar time-scaled.

3. Activities shall include:

a. Description; what is to be accomplished and where.

b. Workday duration.

c. Scheduled activities shall indicate continuous flow, from left to right.

4. Contractor shall setup up the schedule calendar to identify workdays per week and shifts per day worked, non-work days, weekends and holidays.

G. Failure to include any element of Work required for performance of this Contract shall not excuse Contractor from completing Work required to comply with the Contract Documents, notwithstanding acceptance of Construction Schedule.

H. Submittal of Construction Schedule shall be understood to be Contractor's confirmation that the schedule meets requirements of the Contract Documents, and that the Work will be executed in sequence indicated in schedule.

I. All Construction Schedule submittals shall be transmitted with a Letter of Transmittal, PDF file, and the electronic file of the schedule in the original format as required by District Representative.

1.05 REVIEWS, UPDATES, AND REVISIONS

A. District Representative will review and return the initial submittal of Contractor's Construction Schedule, with summary comments. If revisions are required, Contractor shall resubmit Schedule within seven (7) calendar days following receipt of District Representative's comments.

B. After Contractor and District Representative agree to a base line schedule, it will become the Project Construction Schedule. No changes to the Baseline Schedule will be allowed unless accepted by District Representative.

C. Contractor shall analyze and update the Project Construction Schedule:

1. As part of monthly payment application, Contractor shall submit to and participate with District Representative in a schedule review to include:

a. Actual start dates for Work items started during report period.

b. The percent complete on activities that have actual start dates.

c. Actual completion dates for Work items completed during report period.

d. Estimated remaining duration for Work items in progress, which will not exceed original duration for activity.

e. Estimated start dates for Work items scheduled to start during month following report period, if applicable.

f. Changes in duration of Work items.

2. In case of a change to Contractor's planned sequence of Work, Contractor shall include a narrative report with updated progress schedule which shall include, but not be limited to, a description of problem areas, current and anticipated delaying factors, and any proposed revisions for a recovery plan.

3. Change Orders affecting the scheduled completion date shall be clearly identified as separate and new activities integrated into the schedule at the appropriate time and in the appropriate sequence as reviewed and approved by District Representative.

4. The Project Construction Schedule Review will not relieve Contractor of responsibility for accomplishing all Work in accordance with the Contract Documents.

D. Updates: Contractor shall submit to District Representative, with each payment application, an up-to-date Project Construction Schedule. Contractor submission of the Monthly Updated Project Construction Schedule is a condition precedent to District Representative's approval of Progress Payments. The Update Project Construction Schedule shall include the following:

1. Work Item Report: Detailing Work items and dependencies as indicated on the Schedule.

2. Actual Start and End Dates of Activities under construction

3. Separate listing of activities completed during reporting period.

4. Separate listing of activities which are currently in progress, indicating their remaining duration and percentages completed.

5. Separate listing of activities which are causing delay in Work progress.

6. Narrative report to define problem areas, anticipated delays, and impact on the Project Construction Schedule. Contractor shall report corrective action taken, or proposed, and its effect, including effect of changes on schedules of separate contractors.

7. Resolution of conflict between actual Work progress and schedule logic: when out-of-sequence activities develop in the Schedule because of actual construction progress,

Contractor shall submit a revised schedule to conform to current job sequence and direction.

E. If, according to current updated Project Construction Schedule, District Representative determines Contractor is behind schedule or any interim milestone completion dates will not be met, considering all time extensions to which Contractor is entitled, Contractor shall submit a revised recovery schedule, showing a workable plan and a narrative description to complete the project on time. Refer to General Conditions.

F. Scheduling of change or extra Work orders is responsibility of Contractor.

1. Contractor shall revise the Project Construction Schedule to incorporate all activities involved in completing change orders or extra Work orders and submit it to District Representative for review.

G. If District Representative finds Contractor is entitled to extension of any completion date, under provisions of the Contract, District Representative's determination of total number of days of extension will be based upon an analysis of the current Project Construction Schedule, and upon data relevant to the extension.

H. Contractor acknowledges and agrees that delays to non-critical activities will not be considered a basis for a time extension unless activities become critical. Non-critical activities are those activities which, when delayed, do not affect an interim or Substantial Completion date.

I. Contractor shall allow Float time for inclement weather, Government Delay, and Project Float in the Baseline Schedule in accordance with the General Conditions. The Inclement Weather Float and the Government Delay Float shall each be identified as a Critical Activity in the Baseline Schedule. No other activities may be concurrent with them. When rainfall at the Project site impacts Critical Path activities, Contractor may provide District Representative with a written request for a rain impact day describing the inclement weather delay on the Critical path activities. The inclement weather delay must be clearly indicated by a seventy-five percent (75%) decrease in the normal field labor workforce hours on Critical Path activities on the day in question as indicated by Contractor's Daily reports from the day in question and the scheduled Work days prior to the day in question. Upon District Representative's independent confirmation of the amount of rainfall and impact, District Representative will authorize Contractor to reduce the duration of the Rain Day Impact Allowance by one day. Rainfall on non-scheduled workdays shall not be granted as rain impact days. If the effects of rain from a non-scheduled Work day carry forward to a scheduled work day and impacts the Critical Path as noted above, then the scheduled work day will be considered impacted by rain.

1.06 CONTRACTOR'S RESPONSIBILITY

A. Nothing in these requirements shall be deemed to be an usurpation of Contractor's authority and responsibility to plan and schedule Work as Contractor sees fit, subject to all other requirements of Contract Documents.

B. Contractor shall provide at all times sufficient competent labor, materials, and equipment to properly carry on Work and to insure completion of each part in accordance with Construction Schedule and within time allowed in the Contract.

C. Contractor shall be responsible for ensuring that all submittals to the District Representative are accurate and consistent. Damage, including extra time and cost, caused by inaccuracies from Contractor will be compensated by Contractor.

1.07 SUSPENSION OF PAYMENTS

A. Initial Submittal: If Contractor fails to comply with the specified requirements, District Representative reserves the right to engage an independent scheduling consultant to fulfill these requirements. Upon additional notice to Contractor, District Representative shall retain against Contractor all incurred costs for additional services.

B. Update Submittals: District Representative has the right to withhold progress payments if Contractor fails to update and submit the Project Construction Schedule and reports as required by District Representative.

1.08 RECORD COPY

A. Prior to the Contract Completion, Contractor shall submit the Project Construction Schedule showing the as-built sequence. The as-built schedule shall have all activities with actual start and end dates.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION 01 32 13

SECTION 08 71 00 – DOOR HARDWARE
Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware for:

a. Swinging doors.
b. Gates.

B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors
6. Installation.
7. Rough hardware.
8. Conduit, junction boxes & wiring.
9. Sliding aluminum doors, except cylinders where detailed.
10. Access doors and panels, except cylinders where detailed.

C. Related Sections:

1. Division 01 Section “Alternates” for alternates affecting this section.
2. Division 07 Section “Joint Sealants” for sealant requirements applicable to threshold installation specified in this section.
3. Division 08 – metal doors and frames, interior aluminum frames, wood doors, storefront and glazed curtainwall systems.
4. Division 26 sections for connections to electrical power system and for low-voltage wiring.
5. Division 28 sections for coordination with other components of electronic access control system.

1.3 REFERENCES

A. UL - Underwriters Laboratories

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. ANSI - American National Standards Institute

1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties

C. NFPA – National Fire Protection Association

1. NFPA 80 – Standard for Fire Doors and Other Opening Protectives.
2. NFPA 105 – Smoke and Draft Control Door Assemblies
3. NFPA 252 – Fire Tests of Door Assemblies

D. UL – Underwriters Laboratories

1. UL10C – Positive Pressure Fire Tests of Door Assemblies.
2. UL 305 – Panic Hardware

E. BHMA – Builders Hardware Manufacturers Association

F. California Code of Regulations

1. Title 24: California Building Standards Code
2. 2019 California Building Code

a. Chapter 11B – Accessibility To Public Buildings, Public Accommodations, Commercial Buildings and Public Housing

1.4 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 requirements.
2.

B. Action Submittals:

1. Product Data: Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:

a. Wiring Diagrams: For power, signal, and control wiring and including:
1) Details of interface of electrified door hardware and building safety and security systems.
2) Schematic diagram of systems that interface with electrified door hardware.
3) Point-to-point wiring.
4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.

a. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.

4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:

a. Door Index; include door number, heading number, and Architects hardware set number.

b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
c. Type, style, function, size, and finish of each hardware item.
d. Name and manufacturer of each item.
e. Fastenings and other pertinent information.
f. Location of each hardware set cross-referenced to indications on Drawings.
g. Explanation of all abbreviations, symbols, and codes contained in schedule.
h. Mounting locations for hardware.
i. Door and frame sizes and materials.
j. Name and phone number for local manufacturer's representative for each product.
k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components). Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.
   1) Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.

5. Key Schedule:

   a. Initiate and conduct meeting(s) with Owner representatives and hardware supplier to determine system keyway(s), keybow styles, structure, stamping, degree of physical security and degree of geographic exclusivity. Furnish Owner's written approval of the system; do not order keys or cylinders without written confirmation of actual requirements from the Owner.
   b. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
   c. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
   d. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
   e. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
   f. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
      1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.

6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.

C. Informational Submittals:

1. Qualification Data: For Supplier and Installer.
2. Product Certificates for electrified door hardware, signed by manufacturer:

   a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.

3. Certificates of Compliance:

a. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.

4. Warranty: Special warranty specified in this Section.

D. Closeout Submittals:

1. Operations and Maintenance Data : Provide in accordance with Division 01 and include:

a. Complete information on care, maintenance, and adjustment; 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. Final approved hardware schedule, edited to reflect conditions as-installed.
e. Final keying schedule
f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
g. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

1.5 QUALITY ASSURANCE

A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.

1. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)

a. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.

2. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.

B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project.

1. Scheduling Responsibility: Preparation of door hardware and keying schedules.
2. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
3. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.

a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.

C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.

D. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.

E. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.

F. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.

1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.

G. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.

H. Means of Egress Doors: Latches do not require more than 5 lbs (67 N) to release latch. Locks do not require use of key, tool, or special knowledge for operation.

I. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in “REFERENCES” article, herein.

1. Provide operating devices that do not require tight grasping, pinching, or twisting of wrist and that operate with force of not more than 5 lbs (22.2 N).
2. Maximum opening-force requirements:

   a. Interior, Non-Fire-Rated Hinged Doors: 5 lbs (22.2 N) applied perpendicular to door.
   b. Sliding or Folding Doors: 5 lbs (22.2 N) applied parallel to door at latch.
   c. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.

3. Bevel raised thresholds with slope of not more than 1:2. Provide thresholds not more than 1/2 inch (13 mm) high.
4. Adjust door closer sweep periods so that, from open position of 70 degrees, door will take at least 3 seconds to move to 3 inches (75 mm) from latch, measured to leading edge of door.

J. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01.

1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Inspect and discuss preparatory work performed by other trades.
3. Inspect and discuss electrical roughing-in for electrified door hardware.
4. Review sequence of operation for each type of electrified door hardware.
5. Review required testing, inspecting, and certifying procedures.

K. Coordination Conferences:

1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.

   a. Attendees: Door hardware supplier, door hardware installer, Contractor.
   b. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.

2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

    a. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner, Owner's security consultant, Architect and Contractor.
    b. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

    1. Deliver each article of hardware in manufacturer's original packaging.

C. Project Conditions:

    1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
    2. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.

D. Protection and Damage:

    1. Promptly replace products damaged during shipping.
    2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
    3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.

E. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.7 COORDINATION

A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

E. Existing Openings:

    1. Prior to submittal, carefully inspect existing conditions to verify finish hardware required to complete Work, including sizes, quantities, existing hardware scheduled for re-use, and sill condition material. If conflict between the specified/scheduled hardware and existing

conditions, submit request for direction from Architect. Include date of jobsite visit in the submittal.

2. Submittals prepared without thorough jobsite visit by qualified hardware expert will be rejected as non-compliant.

F. Direct shipments not permitted, unless approved by Contractor.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Years from date of Substantial Completion, for durations indicated.

a. Closers:
   1) Mechanical: 30 years.
   2) Electrified: 2 years.

b. Automatic Operators: 2 year

c. Exit Devices:
   1) Mechanical: 3 years.
   2) Electrified: 1 year.

d. Locksets:
   1) Mechanical: 10 years.
   2) Electrified: 1 year.

e. Continuous Hinges: Lifetime warranty

f. Key Blanks: Lifetime

2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

1.9 MAINTENANCE

A. Maintenance Tools:

1. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

1.10 REGULATORY REQUIREMENTS**:**

A. Locate latching hardware between 34 inches to 44 inches above the finished floor, per 2019 California Building Code, Section 11B-404.2.7.

1. Panic hardware: locate between 36 inches to 44 inches above the finished floor.

B. Handles, pull, latches, locks, other operable parts**:**

1. Readily openable from egress side with one hand and without tight grasping, tight pinching, or twisting of the wrist to operate. 2019 California Building Code Section 11B-309.4.
2. Force required to activate the operable parts: 5.0 pounds maximum, per 2019 California Building Code Section 11B-309.4.

C. Adjust doors to open with not more than 5.0-pounds pressure to open at exterior doors and 5.0-pounds at interior doors. As allowed per 2019 California Building Code Section 11B-404.2.9, local authority may increase the allowable pressure for fire doors to achieve positive latching, but not to exceed 15-pounds.

1. Exception: exterior doors' pressure-to-open may be increased to 8.5-pounds if: at a single location, and one of a bank of eight leafs or fraction of eight, and one leaf of this bank is fitted with a low- or high-energy operator.

D. Low-energy powered doors: comply with ANSI/BHMA A156.19. Reference: 2019 California Building Code Section 11B-404.2.9, Exception 2.

1. Where powered door serves an occupancy of 150 or more, provide back-up battery power or stand-by generator power, capable of supporting a minimum of 100 cycles.

2. Actuators, vertical bar type: minimum 2-inches wide, 30-inches high, bottom located minimum 5-inches above floor or ground, top located minimum 35-inches above floor or ground. Displays International Symbol of Accessibility, per 2019 California Building Code Section 11B-703.7.

3. Actuators, plate type: use two at each side of the opening. Minimum 4-inches diameter or 4-inches square. Displays International Symbol of Accessibility, per 2019 California Building Code Section 11B-703.7. Locate centerline of lower plate between 7- and 8-inches above floor or ground, and upper plate between 30- and 44-inches above floor or ground.

4. Actuator location: conspicuously located, clear and level floor/ground space for forward or parallel approach.

E. Adjust door closer sweep periods so that from an open position of 90 degrees, the door will take at least 5 seconds to move to a point 12 degrees from the latch, measured to the landing side of the door, per 2019 California Building Code Section 11B-404.2.8.

1. Spring hinges: adjust for 1.5 seconds minimum for 70 degrees to fully-closed.

F. Smooth surfaces at bottom 10 inches of push sides of doors, facilitating push-open with wheelchair footrests, per 2019 California Building Code Section 11B-404.2.10.

1. Applied kickplates and armor plates: bevel the left and right edges; free of sharp or abrasive edges.
2. Tempered glass doors without stiles: bottom rail may be less than 10 inches if top leading edge is tapered 60 degrees minimum.

G. Door opening clear width no less than 32 inches, measured from face of frame stop, or edge of inactive leaf of pair of doors, to door face with door opened to 90 degrees. Hardware projection not a factor in clear width if located above 30 inches and below 80 inches, and the hardware projects no more than 4 inches. 2019 California Building Code Section 11B-404.2.3.

1. Exception: In alterations, a projection of 5/8 inch (15.9 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and overhead stops: not less than 78 inches above the finished floor or ground, per 2019 California Building Code 11B-307.4.

H. Thresholds**:** floor or landing no more than 0.50 inches below the top of the threshold of the doorway, per 2019 California Building Code Section 11B-404.2.5. Vertical rise no more than 0.25 inches, change in level between 0.25 inches and 0.50 inches**:** beveled to slope no greater than 1**:**2 (50 percent slope). 2019 California Building Code Section 11B-303.2 & ~.3.

I. Floor stops**:** Do not locate in path of travel. Locate no more than 4 inches from walls, per DSA Policy #99-08 (Access).

J. Pairs of doors with independently-activated hardware both leafs**:** limit swing of right-hand or right-hand-reverse leaf to 90 degrees to protect persons reading wall-mounted tactile signage, per 2019 California Building Code Section 11B-703.4.2.

K. Door and door hardware encroachment**:** when door is swung fully-open into means-of-egress path, the doo may not encroach/project more than 7 inches into the required exit width, with the exception of door release hardware such as lockset levers or panic hardware. These hardware items must be located no less than 34-inches and no more than 44-inches above the floor/ground. 2019 California Building Code, Section 1005.7.1.

L. In I-2 occupancies, latch release hardware is not permitted to project in the required exit width, regardless of its mounting height, per 2019 California Building Code, Section 1005.7.1 at Exception 1.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Where “No Substitute” is noted, submittals and substitution requests for other products will not be considered.

B. Approval of manufacturers and/or products other than those listed as “Scheduled Manufacturer” or “Acceptable Manufacturer” in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.

C. Approval of products from manufacturers indicated in “Acceptable Manufacturers” is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer’s product.

D. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.

E. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
4. Install hardware with fasteners provided by hardware manufacturer.

B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

2.3 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Ives 5BB series
2. Acceptable Manufacturers and Products: Hager BB series, McKinney TA/T4A series, Stanley FBB Series

B. Requirements:

1. Provide five-knuckle ball bearing hinges conforming to ANSI/BHMA A156.1.
2. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:

   a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
   b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high

3. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:

   a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

4. 2 inches or thicker doors:

   a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
   b. Interior: Heavy weight, steel, 5 inches (127 mm) high

5. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
6. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
7. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

   a. Steel Hinges: Steel pins
   b. Non-Ferrous Hinges: Stainless steel pins
   c. Out-Swinging Exterior Doors: Non-removable pins
   d. Out-Swinging Interior Lockable Doors: Non-removable pins
   e. Interior Non-lockable Doors: Non-rising pins

8. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inch (44 mm) thick doors, and 5 inches (127 mm) at 2 inches (51 mm) or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
9. Doors 36 inches (914 mm) wide or less furnish hinges 4-1/2 inches (114 mm) high; doors greater than 36 inches (914 mm) wide furnish hinges 5 inches (127 mm) high, heavy weight or standard weight as specified.
10. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
11. Provide mortar guard for each electrified hinge specified.
12. Provide spring hinges where specified. Provide two spring hinges and one bearing hinge per door leaf for doors 90 inches (2286 mm) or less in height. Provide one additional bearing hinge for each 30 inches (762 mm) of additional door height.

2.4 CONTINUOUS HINGES

A. Aluminum Geared

1. Manufacturers:

a. Scheduled Manufacturer: Ives.
b. Acceptable Manufacturers: Markar, Stanley.

2. Requirements:

a. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
b. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum, with 0.25-inch (6 mm) diameter Teflon coated stainless steel hinge pin.
c. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
d. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
e. On fire-rated doors, provide aluminum geared continuous hinges that are classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
f. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware.
g. Install hinges with fasteners supplied by manufacturer.
h. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.5 ELECTRIC POWER TRANSFER

A. Manufacturers:

a. Scheduled Manufacturer: Von Duprin EPT-10
b. Acceptable Manufacturers: ABH PT1000, Securitron CEPT-10

B. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires sufficient to accommodate electric function of specified hardware.

C. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.6 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.7 COORDINATORS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Where pairs of doors are equipped with automatic flush bolts, an astragal, or other hardware that requires synchronized closing of the doors, provide bar-type coordinating device, surface applied to underside of stop at frame head.
2. Provide filler bar of correct length for unit to span entire width of opening, and appropriate brackets for parallel arm door closers and surface vertical rod exit device strikes. Factory-prep coordinators for vertical rod devices if required.

2.8 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage L9000 series
2. Acceptable Manufacturers and Products: No substitute.

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1 Operational, Grade 1 Security, and manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to “KEYING” article, herein.
2. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1 inch (25 mm) throw, constructed of stainless steel.
3. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
4. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide a request to exit (RX) switch that is actuated with rotation of inside lever.
5. Provide motor based electrified locksets with electrified options as scheduled in the hardware sets and comply with the following requirements:

   a. Universal input voltage – single chassis accepts 12 or 24V DC to allow for changes in the field without changing lock chassis.
   b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case
   c. Low maximum current draw – maximum 0.4 amps to allow for multiple locks on a single power supply.
   d. Low holding current – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
   e. Request to Exit Switch (RX) –
      1) Modular Design – provide electrified locks capable of using, adding, or changing a modular RX switch without opening the lock case.
      2) Monitoring – where scheduled, provide a request to exit (RX) switch that detects rotation of the inside lever.

   f. UL Listed – 3 hour fire door

6. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.

a. Lever Design: As scheduled.

C. Padlocks:

1. Manufacturers and Products:

a. Scheduled Manufacturer and Product: American 5200 series

2. Requirements:

a. Provide padlocks with 1 inch (25 mm) shackle height, unless noted otherwise, as specified. Cylinders: Refer to “KEYING” article, herein.

2.9 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Von Duprin 98 series
2. Acceptable Manufacturers and Products: No substitute

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1, and UL listed for Panic Exit or Fire Exit Hardware. Cylinders: Refer to “KEYING” article, herein.
2. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
3. Touchpad: Extend minimum of one half of door width. Match exit device finish, stainless steel for US26, US26D, US28, US32, and US32D finishes; and for all other finishes, provide compatible finish to exit device. No plastic inserts are allowed in touchpads.
4. Provide exit devices with dead-latching feature for security and for future addition of alarm kits and/or other electrified requirements.
5. Provide flush end caps for exit devices.
6. Provide exit devices with manufacturer’s approved strikes.
7. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
8. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
9. Provide cylinder dogging at non-fire-rated exit devices.
10. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
11. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set.

    a. Lever Style: Match lever style of locksets.

12. Accessibility: Maximum 5lbs force to retract latch bolt per CBC Chapter 11B.

    “AX” feature: touchpad directly retracts the latchbolt with 5 lb or less of force. Provide testing lab certification confirming that the mechanical device is independent third-party tested to meet this 5 lb requirement.

13. Provide UL labeled fire exit hardware for fire rated openings.
14. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
15. Provide electrified options as scheduled.

2.10 POWER SUPPLIES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage or Von Duprin PS900 series
2. Acceptable Manufacturers and Products: Securitron BPS series, Security Door Controls 600 series

B. Requirements:

1. Provide power supplies, recommended and approved by manufacturer of electrified locking component, for operation of electrified locks, electrified exit devices, magnetic locks, electric strikes, and other components requiring power supply.
2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
3. Provide regulated and filtered 24 VDC power supply , and UL class 2 listed.
4. Options:

   a. Provide power supply, where specified, with internal capability of charging sealed backup batteries 24 VDC, in addition to operating DC load.
   b. Provide sealed batteries for battery back-up at each power supply where specified.
   c. Provide keyed power supply cabinet.

5. Provide power supply in an enclosure, complete, and requiring 120VAC to fused input.
6. Provide power supply with emergency release terminals, where specified, that allow release of all devices upon activation of fire alarm system complete with fire alarm input for initiating “no delay” exiting mode.

2.11 CYLINDERS

A. Manufacturers:

1. Scheduled Manufacturer: Russwin
2. Acceptable Manufacturers: No substitute.

B. Requirements:

1. Provide cylinders to match Owner’s existing key system, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer’s series as indicated. Refer to “KEYING” article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.

   a. Exterior: Provide N15 keyway
   b. Interior: Provide N21 keyway
   c. Card reader locations: Provide N15 keyway.

3. Temporary Construction Cylinder Keying.

   a. Provide construction cores that permit voiding construction keys without cylinder removal, furnished in accordance with the following requirements.
      1) Split Key or Lost Ball Construction Keying System.
      2) 3 construction control keys, and extractor tools or keys as required to void construction keying.
      3) 12 construction change (day) keys.

b. Owner or Owner's Representative will void operation of temporary construction keys.

2.12 KEYING

A. Provide cylinders/cores keyed into Owner's existing factory registered keying system, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Provide permanent cylinders keyed by the manufacturer according to the following key system.

   a. Master Keying system as directed by the Owner.

2. Forward bitting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements shall be cause for replacement of cylinders/cores involved at no additional cost to Owner.
3. Provide keys with the following features:

   a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm)

4. Identification:

   a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.
   b. Identification stamping provisions must be approved by the Architect and Owner.
   c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE".
   d. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.
   e. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

5. Quantity: Furnish in the following quantities.

   a. Change (Day) Keys: 3 per cylinder.
   b. Master Keys: 6.

2.13 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4040XP series.
2. Acceptable Manufacturers and Products: No Substitute.

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2 inch (38 mm) diameter with 3/4 inch (19 mm) diameter double heat-treated pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.14 ELECTRO-HYDRAULIC AUTOMATIC OPERATORS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4600 series
2. Acceptable Manufacturers and Products: No substitute.

B. Requirements:

1. Provide low energy automatic operator units with hydraulic closer complying with ANSI/BHMA A156.19.
2. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
3. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door
4. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
5. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check valve, sweep valve, latch valve to control door.
6. Provide drop plates, brackets, or adapters for arms as required for details.
7. Provide hard-wired actuator switches for operation as specified.
8. Provide weather-resistant actuators at exterior applications.
9. Provide key switches with LED's, recommended and approved by manufacturer of automatic operator as required for function described in operation description of hardware group below. Cylinders: Refer to "KEYING" article, herein.
10. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.
11. Provide units with vestibule inputs that allow sequencing operation of two units, and SPDT relay for interfacing with latching or locking devices.

2.15 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide push plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick and beveled 4 edges. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
2. Provide push bars of solid bar stock, diameter and length as scheduled. Provide push bars of sufficient length to span from center to center of each stile. Where required, mount back to back with pull.
3. Provide offset pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
4. Provide flush pulls as scheduled. Where required, provide back-to-back mounted model.
5. Provide pulls of solid bar stock, diameter and length as scheduled. Where required, mount back to back with push bar.
6. Provide pull plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
7. Provide wire pulls of solid bar stock, diameter and length as scheduled.
8. Provide decorative pulls as scheduled. Where required, mount back to back with pull.

2.16 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes of plates:

   a. Kick Plates: 10 inches (254 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
   b. Mop Plates: 4 inches (102 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs
   c. Armor Plates: 36 inches (914 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs

2.17 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers: Glynn-Johnson
2. Acceptable Manufacturers: Rixson, Sargent

B. Requirements:

1. Provide heavy duty concealed mounted overhead stop or holder as specified for exterior and interior vestibule single acting doors.
2. Provide heavy duty concealed mounted overhead stop or holder as specified for double acting doors.
3. Provide heavy or medium duty and concealed or surface mounted overhead stop or holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking wall, open against equipment, casework, sidelights, and where conditions do not allow wall stop or floor stop presents tripping hazard.

4. Where overhead holders are specified provide friction type at doors without closer and positive type at doors with closer.

2.18 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
2. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

2.19 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer: Zero International
2. Acceptable Manufacturers: National Guard, Pemko

B. Requirements:

1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
2. Size of thresholds:

   a. Saddle Thresholds: 1/2 inch (13 mm) high by jamb width by door width
   b. Bumper Seal Thresholds: 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width

3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

2.20 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Rockwood, Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.21 MAGNETIC HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: LCN

2. Acceptable Manufacturers: Rixson, Sargent

B. Requirements:

1. Provide wall or floor mounted electromagnetic door release as specified with minimum of 25 pounds of holding force. Coordinate projection of holder and armature with other hardware and wall conditions to ensure that door sits parallel to wall when fully open. Connect magnetic holders on fire-rated doors into the fire control panel for fail-safe operation.

2.22 MAGNETIC CATCHES

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Engineered Products Company, Rockwood

B. Requirements:

1. Provide magnetic catches with self-aligning magnets that can be surface mounted or mortised.
2. Provide magnetic catches in an aluminum case 1 inch wide x 3-1/8 inch long. Provide dual triple pole (Ives 327), where scheduled, with 14 pound load capacity, and dual double pole catches (Ives 326), where scheduled, with 9 pound load capacity.

2.23 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer: Schlage
2. Acceptable Manufacturers: GE-Interlogix, Sargent

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.24 COAT HOOKS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Rockwood, Trimco

B. Provide coat hooks as specified.

2.25 FINISHES

A. Finish: BHMA 626/652 (US26D); except:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Continuous Hinges: BHMA 630 (US32D)
3. Continuous Hinges: BHMA 628 (US28)
4. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
5. Protection Plates: BHMA 630 (US32D)
6. Overhead Stops and Holders: BHMA 630 (US32D)
7. Door Closers: Powder Coat to Match

8. Wall Stops: BHMA 630 (US32D)
9. Latch Protectors: BHMA 630 (US32D)
10. Weatherstripping: Clear Anodized Aluminum
11. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Where on-site modification of doors and frames is required:

1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
2. Field modify and prepare existing door and frame for new hardware being installed.
3. When modifications are exposed to view, use concealed fasteners, when possible.
4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:

a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
b. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
2. Custom Steel Doors and Frames: HMMA 831.
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

B. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.

C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.

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

E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.

G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges are provided.

H. Lock Cylinders: Install construction cylinders to secure building and areas during construction period.

I. Wiring: Coordinate with Division 26, ELECTRICAL sections for:

1. Conduit, junction boxes and wire pulls.
2. Connections to and from power supplies to electrified hardware.
3. Connections to fire/smoke alarm system and smoke evacuation system.
4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
5. Testing and labeling wires with Architect's opening number.

J. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Closers shall not be visible in corridors, lobbies and other public spaces unless approved by Architect.

K. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

L. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.

1. Coordination: Coordinate provision with the security systems provider to mitigate excessive or redundant purchase.
2. Configuration: Provide least number of power supplies required to adequately serve doors with electrified door hardware.

M. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

N. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.

O. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

P. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

Q. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.4 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Spring Hinges: Adjust to achieve positive latching when door is allowed to close freely from an open position of 30 degrees.
2. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer shall examine and readjust each item of door hardware, including adjusting operating

forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.5 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.6 DEMONSTRATION

A. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

3.7 DOOR HARDWARE SCHEDULE

A. Locksets, exit devices, and other hardware items are referenced in the following hardware sets for series, type and function. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.

B. Do not order material until submittal has been reviewed, stamped, and signed by Architect’s door hardware consultant.

C. Hardware Sets:

HW SET: 05

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080L 03A	630	SCH
1	EA	MORTISE CYLINDER	1000-118-A06 x N15 or N21 KEYWAY	626	RUS
1	EA	OH STOP & HOLDER	90H	630	GLY
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 06

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070L 03A	626	SCH
1	EA	MORTISE CYLINDER	1000-118-A06 x N15 or N21 KEYWAY	626	RUS
1	EA	SURFACE CLOSER	4040XP EDA TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS436/438 AS REQ'D	626	IVE
1	EA	DOOR SEAL	188SBK PSA (HEAD & JAMBS)	BK	ZER

HW SET: 07

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
2	SET	CONST LATCHING BOLT	FB51P	630	IVE
1	EA	DUST PROOF STRIKE	DP1/DP2 AS REQ'D	626	IVE
1	EA	STOREROOM LOCK	L9080L 03A	630	SCH
1	EA	MORTISE CYLINDER	1000-118-A06 x N15 or N21 KEYWAY	626	RUS
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV AS REQ'D	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

ADD-3

HW SET: G01

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		SELF-CLOSING GATE HINGES	PROVIDED BY GATE FABRICATOR		B/O
1	EA	CANE BOLT - LOCKABLE	SPEC. NO. 48		RIC
1	EA	PADLOCK	AMERICAN 5200 (6-PIN-KNZ-PINNED TO BLANKS)	606	AML
1	EA	PANIC HARDWARE	PA-AX-98-NL-OP-110MD X STRIKE AS REQ'D	626	VON
1	EA	RIM CYLINDER	3000-200 x N15 (verify)		RUS
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE

BALANCE OF HARDWARE PROVIDED BY GATE FABRICATOR.
PROVIDE MOUNTING PLATES AS REQUIRED.

SECTION 093013 - CERAMIC TILING

Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Porcelain tile.

B. Related Requirements:

1. Section 079200 "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
2. Section 092900 "Gypsum Board" for cementitious backer units.

1.3 DEFINITIONS

A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.

B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.8, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.12, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."

C. Module Size: Actual tile size plus joint width indicated.

D. Face Size: Actual tile size, excluding spacer lugs.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.

C. Samples for Initial Selection: For tile, grout, and accessories involving color selection.

D. Samples for Verification:

1. Stone thresholds in 6-inch lengths.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.8 QUALITY ASSURANCE

A. Installer Qualifications:

1. Company specializing in installation of ceramic tile, trim units and thresholds with five years' experience with installations of similar scope, materials, and design.

B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Build mockup of each type of tile installation, minimum 4 ft. x 4 ft. as directed by Architect.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
3. Ceramic Tile Flooring shall be stable, firm, and slip resistant per compliance with CBC Section 11B-302.1.
4. Lippage of tile not to exceed 1/32”.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.

B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.

C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.

D. Store liquid materials in unopened containers and protected from freezing.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Tile: Obtain tile of each type and color or finish from single source or producer.

1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.

B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.

1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.

C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:

1. Schluter metal edge strips.

2.2 PRODUCTS, GENERAL

A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

1. Provide tile complying with Standard grade requirements unless otherwise indicated.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

2.3 TILE PRODUCTS

A. Ceramic Glazed porcelain tile: (T-01) ***ADD 03***

1. Basis-of-Design Product: To be confirmed to match existing tile conditions.
2. Certification: Tile certified by the Porcelain Tile Certification Agency.
3. Face Size: As indicated on Sheet A10.0 Finish Schedule, or approved equal. ***ADD 03***
4. Thickness: As indicated on Sheet A10.0 Finish Schedule, or approved equal. ***ADD 03***
5. Face: As indicated on Sheet A10.0 Finish Schedule, or approved equal. ***ADD 03***
6. Grout Color: As selected by Architect from manufacturer's full range.
7. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile.

   a. Provide shapes as indicated on drawings.

2.4 THRESHOLDS

A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.

1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.

B. Marble Thresholds: ASTM C 503/C 503M, with a minimum abrasion resistance of 10 according to ASTM C 1353 or ASTM C 241/C 241M and with honed finish.

1. Description: Uniform, fine- to medium-grained white stone with gray veining.

2.5 SETTING MATERIALS

A. Modified Dry-Set Mortar (Thinset): ANSI A118.4.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Custom Building Products.
b. LATICRETE SUPERCAP, LLC.
c. MAPEI Corporation.

2. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.4.

2.6 GROUT MATERIALS

A. High-Performance Tile Grout: ANSI A118.7.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Custom Building Products.
b. LATICRETE SUPERCAP, LLC.
c. MAPEI Corporation.

2.7 MISCELLANEOUS MATERIALS

A. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

2.8 MIXING MORTARS AND GROUT

A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B. Add materials, water, and additives in accurate proportions.

C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
3. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 CERAMIC TILE INSTALLATION

A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.

B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in

items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.

F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:

1. Glazed Wall Tile: 1/16 inch.

H. Lay out tile wainscots [SC1]to dimensions indicated or to next full tile beyond dimensions indicated.

I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.

J. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.

K. Metal Edge Strips: Install at locations indicated.

3.4 TILE BACKING PANEL INSTALLATION

A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.

3.5 ADJUSTING AND CLEANING

A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.

B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.

1. Remove grout residue from tile as soon as possible.
2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other

surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3.6 PROTECTION

A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls.

B. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.7 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

A. Interior Wall Installations, Wood or Metal Studs or Furring:

1. Ceramic Tile Installation: TCNA W244C or TCNA W244F; thinset mortar on cementitious backer units or fiber-cement backer board.
   a. Thinset Mortar: Modified dry-set mortar.
   b. Grout: High-performance unsanded grout.

END OF SECTION 093013

SECTION 095113 - ACOUSTICAL PANEL CEILINGS

Revised, Addendum 03, 05/19/22

1.1 SUMMARY

A. This Section includes acoustical panels and suspension systems for ceilings.

1.2 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of acoustical panel ceilings that fails in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
   2. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
   3. Warranty Period: 1 year.
   4. Installer's Warranty: 1 year.

1.3 MANUFACTURERS

A. Acoustical Panels: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
   1. Armstrong World Industries, Inc.
   2. Conwed
   3. Geometrik
   4. Woodfit Acoustics
   3. Or equal.

B. Suspension Systems: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
   1. Armstrong World Industries, Inc.
   2. Conwed
   3. Geometrik
   4. Woodfit Acoustics
   5. Or equal.

1.4 ACOUSTICAL PANELS, GENERAL

A. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectances, unless otherwise indicated.
   1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface per ASTM E 795.

1.5 ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING

A. Acceptable Product (ACT-1), (APC-01): Armstrong – Optima ***ADD-03***
   1. Surface Texture: Fine
   2. Composition: Mineral Fiber
   3. Color: White
   4. Size: Tegular Model 3152, ~~2'x2'x1".~~ As indicated on the drawings ***ADD 03***

5. Noise Reduction Coefficient (NRC): 0.95
6. Fire Rating: Class A

C. Or equal.

1.6 METAL SUSPENSION SYSTEMS, GENERAL

A. Metal Suspension System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635.

B. Finishes and Colors, General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated.

C. Attachment Devices: In accordance with the 2019 California Building Code, Section 1616 for Category D, E, and F.

D. Wire for Hangers and Ties: In accordance with the 2019 California Building Code, Section 1616.

E. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.

F. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04-inch- thick, galvanized steel sheet complying with ASTM A 653, G90 coating designation; with bolted connections and 5/16-inch- diameter bolts.

G. Seismic Stabilizer Bars: Manufacturer's standard perimeter stabilizers designed to accommodate seismic forces.

H. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces.

I. Seismic Clips: Manufacturer's standard seismic clips designed and spaced to secure acoustical panels in-place.

J. Hold-Down Clips: Where indicated, provide manufacturer's standard hold-down clips spaced 24 inches o.c. on all cross tees.

K. Impact Clips: Where indicated, provide manufacturer's standard impact-clip system designed to absorb impact forces against acoustical panels.

L. Wall Moldings: In accordance with the 2019 California Building Code, Section 1616 for Category D, E. and F.

1.7 METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING

A. Exposed Steel Suspension System: Formed galvanized steel, commercial quality cold rolled; heavy-duty.
1. Product: Armstrong Prelude or equal.
a. Profile: Tegular; 15/16 inch wide face.
b. Finish: Factory painted white.

2. Product: Armstrong Lyra Concealed or equal
    a. Profile: Quick Kerf Edge
    b. Finish: Factory painted white

1.8 METAL EDGE MOLDINGS AND TRIM

A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension system runners.

B. Provide manufacturer's standard edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners, unless otherwise indicated.

1.9 ACOUSTICAL SEALANT

A. Comply with requirement of Division 7 “Joint Sealants”.

END OF SECTION 095113

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

Revised, Addendum 03, 05/19/22

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Thermoset-rubber base.
2. Rubber molding accessories.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches long.

C. Product Schedule: For resilient base and accessory products.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.6 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following periods:

1. 48 hours before installation.
2. During installation.

3. 48 hours after installation.

C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 THERMOSET-RUBBER BASE

A. Basis-of-Design Product: Subject to compliance with requirements, provide ~~product indicated on Drawings or comparable~~ product by one of the following: ***ADD 03***

1. Burke Mercer Flooring Products; a division of Burke Industries Inc.
2. Flexco.
3. Roppe Corporation, USA.

B. Product Standard: ASTM F1861, Type TS (rubber, vulcanized thermoset), Group I (solid, homogeneous).

1. Style and Location:

a. Style B, Cove: Provide in areas with resilient floor coverings.

C. Thickness: 0.125 inch.

D. Height: 4 inches.

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Preformed.

G. Inside Corners: Job formed or preformed.

H. Colors: ~~As indicated on drawings.~~ Manufacturer's standard color to be chosen by Architect ***ADD 03***

2.2 RUBBER MOLDING ACCESSORY

A. Description: Rubber carpet edge for glue-down applications, nosing for carpet, nosing for resilient floor covering, reducer strip for resilient floor covering, joiner for tile and carpet, transition strips.

~~B. Profile and Dimensions: As indicated.~~ ***ADD 03***

C. ~~Locations: Provide rubber molding accessories in areas indicated.~~ ***ADD 03***

D. Colors and Patterns: As selected by the architect from manufacturer's full range.

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

1. Adhesives shall have a VOC content of 50 g/L or less.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until materials are the same temperature as space where they are to be installed.

1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.

G. Preformed Corners: Install preformed corners before installing straight pieces.

H. Job-Formed Corners:

1. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.

a. Miter or cope corners to minimize open joints.

3.4 RESILIENT ACCESSORY INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient accessories.

B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:

1. Remove adhesive and other blemishes from surfaces.
2. Sweep and vacuum horizontal surfaces thoroughly.
3. Damp-mop horizontal surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

END OF SECTION 096513

SECTION 096519 - RESILIENT TILE FLOORING

Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Solid ~~vinyl~~ floor tile ~~(LVT).~~ ***ADD 03***

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For each type of resilient floor tile.

1. Include floor tile layouts, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
2. Show details of special patterns.

C. Samples for Verification: Full-size units of each color and pattern of floor tile required.

D. Product Schedule: For floor tile. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of floor tile to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Floor Tile: Furnish one box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

A. Installer Qualifications: An entity that employs installers and supervisors who are competent in techniques required by manufacturer for floor tile installation and seaming method indicated.

1. Engage an installer who employs workers for this Project who are trained or certified by floor tile manufacturer for installation techniques required.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F. Store floor tiles on flat surfaces.

1.9 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive floor tile during the following periods:

1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.

B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

C. Close spaces to traffic during floor tile installation.

D. Close spaces to traffic for 48 hours after floor tile installation.

E. Install floor tile after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Comply with California Building Code, Section 11B-302.1.
1. Resilient flooring shall be stable, firm and slip resistant.

B. Fire-Test-Response Characteristics: For resilient floor tile, as determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

C. ASTM E 662/NFPA 258 (Smoke Density), less than 450.

2.2 SOLID ~~VINYL~~ FLOOR TILE (RF-01) ***ADD 03***

A. Basis-of-Design: ~~As indicated on drawings.~~ Forbo, Marmoleum Modular ***ADD 03***

C. Construction: ~~LVT (Luxury Vinyl Tile)~~ Primarily natural materials ***ADD 03***

D. Thickness: Manufacturer's standard thickness for size indicated, ~~0.160 inch (4mm), minimum.~~ 1/10" (2.5mm) ***ADD 03***

~~E.~~ Size: ~~As indicated on drawings.~~ 9.8" x 9.8" (25 cm x 25 cm) ***ADD 03***

F. Installation Method: Glue down.

G. Colors and Patterns: ~~As indicated on drawings.~~ Manufacturer's standard color, by Architect. ***ADD 03***

2.3 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.

1. Adhesives shall have a VOC content of 50 g/L or less.

~~C. Floor Polish: Provide protective, liquid floor-polish products recommended by floor tile manufacturer.~~ ***ADD 03***

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products.

B. Concrete Substrates: Prepare according to ASTM F710.

1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.

   Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 7 or more than 9 pH.

4. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas. Where moisture emissions are above manufacturer's recommendations, provide products as indicated in Section 09 0561.13 "Moisture vapor Emissions Control" and re-test the substrate.

   a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
   b. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

D. Do not install floor tiles until materials are the same temperature as space where they are to be installed.

   1. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.

E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

3.3 FLOOR TILE INSTALLATION

A. Comply with manufacturer's written instructions for installing floor tile.

B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.

   1. Lay tiles in pattern indicated.

C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.

   1. Lay tiles in pattern of colors and sizes indicated.

D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.

E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.

F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.

G. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in installation areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.

H. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

3.4 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.

B. Perform the following operations immediately after completing floor tile installation:

1. Remove adhesive and other blemishes from surfaces.
2. Sweep and vacuum surfaces thoroughly.
3. Damp-mop surfaces to remove marks and soil.

C. Protect floor tile from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Floor Polish: Remove soil, adhesive, and blemishes from floor tile surfaces before applying liquid floor polish.

E. Cover floor tile until Substantial Completion.

END OF SECTION 096519

SECTION 096816 - SHEET CARPETING

Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Woven carpet.
2. Carpet cushion.

B. Related Requirements:

1. Section 096813 "Tile Carpeting" for modular carpet tiles.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review methods and procedures related to carpet installation including, but not limited to, the following:

a. Review delivery, storage, and handling procedures.
b. Review ambient conditions and ventilation procedures.
c. Review subfloor preparation procedures.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include manufacturer's written data on physical characteristics and durability.
2. Include manufacturer's written installation recommendations for each type of substrate.

B. Sustainable Design Submittals:

1. Product Data: For adhesives, indicating VOC content.
2. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
3. Laboratory Test Reports: For flooring products, indicating compliance with requirements for low-emitting materials.

C. Shop Drawings: For carpet installation, showing the following:

1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet.
2. Carpet type, color, and dye lot.
3. Locations where dye lot changes occur.
4. Seam locations, types, and methods.
5. Type of subfloor.
6. Type of installation.
7. Pattern type, repeat size, location, direction, and starting point.
8. Pile direction.
9. Types, colors, and locations of insets and borders.
10. Types, colors, and locations of edge, transition, and other accessory strips.
11. Transition details to other flooring materials.
12. Type of carpet cushion.

D. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet: 12-inch- (300-mm-) square Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- (300-mm-) long Samples.
3. Carpet Cushion: 6-inch- (150-mm-) square Sample.
4. Carpet Seam: 6-inch (150-mm) Sample.
5. Mitered Carpet-Border Seam: 12-inch- (300-mm-) square Sample. Show carpet pattern alignment.

E. Samples for Initial Selection: For each type of product.

1. Include Samples of exposed edge, transition, and other accessory stripping involving color or finish selection.

F. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

1. Carpet: 12-inch- (300-mm-) square Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- (300-mm-) long Samples.
3. Carpet Cushion: 6-inch- (150-mm-) square Sample.
4. Carpet Seam: 6-inch (150-mm) Sample.

5. Mitered Carpet-Border Seam: 12-inch- (300-mm-) square Sample. Show carpet pattern alignment.

G. Product Schedule: For carpet and carpet cushion. Use same designations indicated on Drawings.

H. Sustainable Product Certification: Provide ANSI/NSF 140 certification for carpet products.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For carpet and carpet cushion, for tests performed by a qualified testing agency.

C. Sample Warranties: For special warranties.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For carpet to include in maintenance manuals. Include the following:

1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
2. Precautions for cleaning materials and methods that could be detrimental to carpet and carpet cushion.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Carpet: Full-width rolls equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd. (8.3 sq. m).

1.8 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the Commercial II certification level.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

1. Build mockups at locations and in sizes shown on Drawings.

2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Comply with CRI's "CRI Carpet Installation Standard."

B. Deliver carpet in original mill protective covering with mill register numbers and tags attached.

1.10 FIELD CONDITIONS

A. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.

B. Environmental Limitations: Do not deliver or install carpet and carpet cushion until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.

C. Do not install carpet and carpet cushion over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.

D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.

1.11 WARRANTY

A. Special Warranty for Carpet: Manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.

1. Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse.
2. Failures include, but are not limited to, the following:

   a. More than 10 percent loss of face fiber, edge raveling, snags, and runs.
   b. Loss of tuft bind strength.
   c. Excess static discharge.
   d. Delamination.

3. Warranty Period: 10 years from date of Substantial Completion.

B. Special Warranty for Carpet Cushion: Manufacturer agrees to repair or replace components of carpet cushion installation that fail in materials or workmanship within specified warranty period.

1. Warranty includes removal and replacement of carpet and accessories required by replacement of carpet cushion.

2. Warranty does not include deterioration or failure of carpet cushion due to unusual traffic, failure of substrate, vandalism, or abuse.
3. Failure includes, but is not limited to, permanent indentation or compression.
4. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 WOVEN CARPET (CPT-01) ***ADD 03***

A. Carpet Tile:

1. Basis-of-Design Product: To be confirmed with existing carpeting.

B. Backing: Flexaire Cushion Pad and Binding Edges or equal.

C. Applied Treatments:

1. Applied Soil-Resistance Treatment: Manufacturer's standard material.

2. Antimicrobial Treatment: Manufacturer's standard material.

a. Antimicrobial Activity: Not less than 2-mm halo of inhibition for gram-positive bacteria, not less than 1-mm halo of inhibition for gram-negative bacteria, and no fungal growth, according to AATCC 174.

D. Sustainable Design Requirements:

1. Sustainable Product Certification: Platinum level certification according to ANSI/NSF 140.

E. Performance Characteristics:

1. Appearance Retention Rati ng: Heavy traffic, 3.0 minimum according to ASTM D7330.
2. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm according to NFPA 253.
3. Dry Breaking Strength: Not less than 100 lbf (445 N) according to ASTM D2646.
4. Noise Reduction Coefficient (NRC): according to ASTM C423.
5. Colorfastness to Crocking: Not less than 4, wet and dry, according to AATCC 165.
6. Colorfastness to Light: Not less than 4 after 40 AFU (AATCC fading units) according to AATCC 16, Option E.
7. Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.
8. Carpet shall be securely attached and shall have firm cushion, pad, or backing, or no cushion or pad. It shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be ½” maximum.
9. Exposed edges shall be fastened to floor surfaces and shall have trim on the entire length. Carpet edges shall comply with CBC Section 11B-303.

2.2 CARPET CUSHION

A. Traffic Classification: CCC Class II, heavy traffic.

B. Cushion: Manufacturer's commercial standard.

C. Performance Characteristics:

1. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm according to NFPA 253.
2. Noise Reduction Coefficient (NRC): according to ASTM C423.

2.3 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer.

B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet and carpet cushion manufacturers.

C. Tackless Carpet Stripping: Water-resistant plywood, in strips as required to match cushion thickness and that comply with CRI's "CRI Carpet Installation Standard."

D. Seam Adhesive: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

E. Metal Edge/Transition Strips: Extruded aluminum with mill finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance.

B. Examine carpet for type, color, pattern, and potential defects.

C. Concrete Slabs: Verify that finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.

1. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m) and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.

a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
c. Perform additional moisture tests recommended in writing by adhesive, carpet cushion, and carpet] manufacturers. Proceed with installation only after substrates pass testing.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General: Comply with CRI's "CRI Carpet Installation Standard" and with carpet manufacturer's written installation instructions for preparing substrates.

B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3 mm) wide or wider, and protrusions more than 1/32 inch (0.8 mm), unless more stringent requirements are required by manufacturer's written instructions.

C. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive, carpet, and carpet cushion] manufacturers.

D. Broom and vacuum clean substrates to be covered immediately before installing carpet.

3.3 CARPET INSTALLATION

A. Comply with CRI's "CRI Carpet Installation Standard" and carpet and carpet cushion manufacturers' written installation instructions for the following:

1. Direct-glue-down installation.
2. Double-glue-down installation.
3. Carpet with attached-cushion installation.
4. Preapplied adhesive installation.
5. Hook-and-loop installation.
6. Stretch-in installation.
7. Stair installation.

B. Comply with carpet manufacturer's written instructions and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.

1. Stretch-in Carpet Installation: Install carpet cushion seams at 90-degree angle with carpet seams.

C. Install as indicated on Drawings.

D. Install borders with mitered corner seams.

E. Do not bridge building expansion joints with carpet.

F. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.

G. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

H. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet as marked on subfloor. Use nonpermanent, nonstaining marking device.

3.4 CLEANING AND PROTECTION

A. Perform the following operations immediately after installing carpet:

1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
2. Remove yarns that protrude from carpet surface.
3. Vacuum carpet using commercial machine with face-beater element.

B. Protect installed carpet to comply with CRI's "CRI Carpet Installation Standard."

C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods recommended in writing by carpet manufacturer and carpet cushion and adhesive manufacturers.

END OF SECTION 096816

SECTION 098400 – ROOM ACOUSTIC COMPONENTS

Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes shop-fabricated, acoustical panel units tested for acoustical performance, including the following:

1. Fabric wrapped sound-absorbing wall and ceiling panels.

B. Related Requirements:

1. Division 09 Section “Gypsum Board.”
2. Division 09 Section “Acoustical Panel Ceilings.”
3. Division 09 Section “Acoustic Insulation”

C. Fabric Selections indicated on Drawing Sheet A12.01 Interior Schedules

1.3 DEFINITIONS

A. NRC: Noise Reduction Coefficient.

B. SAA: Sound Absorption Average.

1.4 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that panels can be installed as indicated.

1.5 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.6 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include fabric/veneer facing, panel edge, core material, and mounting indicated.

B. Shop Drawings: For unit assembly and installation.

1. Include plans, elevations, sections, and mounting devices and details.
2. Include details at panel head, base, joints, and corners; and details at ceiling, floor base, and wall intersections. Indicate panel edge profile and core materials.
3. Include details at cutouts and penetrations for other work.
4. Include direction of fabric weave and pattern matching.

C. Samples for Initial Selection: For each type of fabric facing.

1. Include Samples of hardware and accessories involving color or finish selection.

D. Samples for Verification: For the following products:

1. Fabric: Full-width by approximately 36-inch- (900-mm-) long Sample, but not smaller than required to show complete pattern repeat, from dye lot to be used for the Work, and with specified treatments applied. Mark top and face of fabric.
2. Panel Edge: 12-inch- (300-mm-) long Sample(s) showing each edge profile, corner, and finish.
3. Core Material: 12-inch- (300-mm-) square Sample at corner.
4. Mounting Devices: Full-size Samples.

1.7 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Elevations and other details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Electrical outlets, switches, and thermostats.
2. Items penetrating or covered by units including the following:
   a. Lighting fixtures.
   b. Air outlets and inlets.
   c. Speakers.
   d. Alarms.
   e. Sprinklers.
   f. Access panels.
3. Show operation of hinged and sliding components covered by or adjacent to units.

B. Product Certificates: For each type of unit.

C. Sample Warranty: For manufacturer's special warranty.

1.8 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of unit to include in maintenance manuals. Include fabric manufacturers' written cleaning and stain-removal instructions.

1.9 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials from same production run that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Fabric: For each fabric, color, and pattern installed, provide length equal to 10 percent of amount installed, but no fewer than 10 sq. yd. (9 sq. m), full width of bolt.
2. Mounting Devices: Full-size units equal to 5 percent of amount installed, but no fewer than five devices, including unopened adhesives.

1.10 QUALITY ASSURANCE

A. Certified Wood: Provide an invoice including vendor's chain-of-custody number, product cost, and entity being invoiced.

B. Vendor Qualifications: A vendor that is certified for chain of custody by an FSC-accredited certification body.

C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials, fabrication, and installation.

1. Build mockup of typical wall area as shown on Drawings.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Comply with fabric and unit manufacturers' written instructions for minimum and maximum temperature and humidity requirements for shipment, storage, and handling.

B. Deliver materials and units in unopened bundles and store in a temperature-controlled dry place with adequate air circulation.

1.12 FIELD CONDITIONS

A. Environmental Limitations: Do not install units until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work at and above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Lighting: Do not install units until a permanent level of lighting is provided on surfaces to receive the units.

C. Air-Quality Limitations: Protect units from exposure to airborne odors, such as tobacco smoke, and install units under conditions free from odor contamination of ambient air.

D. Field Measurements: Verify unit locations and actual dimensions of openings and penetrations by field measurements before fabrication, and indicate them on Shop Drawings.

1.13 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace units and components that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to the following:

a. Acoustical performance.
b. Fabric sagging, distorting, or releasing from panel edge.
c. Warping of core.

2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations:
1. Obtain fabric wall and ceiling units specified in this Section from single source from single manufacturer.
2. Obtain perforated wood wall units and non-perforated wood wall units specified in this Section from single source from single manufacturer.
3. Obtain PET wall and ceiling units specified in this Section from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Wall materials shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

B. Fire-Test-Response Characteristics: Units shall comply with "Surface-Burning Characteristics" or "Fire Growth Contribution" Subparagraph below, or both, as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:

1. Surface-Burning Characteristics: Comply with ASTM E84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

a. Flame-Spread Index: 25 or less.
b. Smoke-Developed Index: 450 or less.

2. Fire Growth Contribution: Comply with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 265 Method B Protocol or NFPA 286.

2.3 ACOUSTIC WALL AND CEILING PANELS

A. Fabric-Faced Sound Absorbing Panels (AP-01, ~~AP-02~~): Sound absorbing wall and ceiling panels shall be provided. Panels shall be glass or mineral fiber with a density of 6 to 7 PCF. Bonded to this on the front side shall be a 1/8-inch-thick high-density glass fiberboard (if glass fiber core material is used). Edges of the panels shall be reinforced with resin or shall be protected with a framing strip, in order to make the panels damage resistant, inert, and dimensionally stable. Unless specified otherwise, edges shall be true and square. ***ADD 03***

1. Basis-of-Design Product: Subject to compliance with requirements, fabric-faced sound absorbing panels by one of the following manufacturers:
   a. Conwed
   b. Decoustics Limited
   c. Kinetics Noise Control
   d. MBI Products Company
   e. Perdue Acoustics

2. Thickness: As indicated on Drawings.
3. Noise Reduction Coefficient:
   a. 1-inch panels: 0.80 minimum
   b. 2-inch panels: 0.95 minimum
   c. 4-inch panels: 0.99 minimum
4. Fabric: As indicated on Interior Schedules
5. Core: Glass or mineral fiber with a density of 6 to 7 PCF
6. Flammability: ASTM E84, Class A.

2.4 FABRICATION

A. Standard Construction: Use manufacturer's standard construction unless otherwise indicated; with facing material applied to face, edges, and back border of dimensionally stable core; and with rigid edges to reinforce panel perimeter against warpage and damage.

B. Edge Hardening: For glass-fiber board cores, chemically harden core edges and areas of core where mounting devices are attached.

C. Core-Face Layer: Evenly stretched over core face and edges and securely attached to core; free from puckers, ripples, wrinkles, or sags.

D. Facing Material: Apply fabric facing fully covering visible surfaces of unit; with material stretched straight, on the grain, tight, square, and free from puckers, ripples, wrinkles, sags, blisters, seams, adhesive, or other visible distortions or foreign matter.

   1. Square Corners: Tailor corners.
   2. Radius and Other Nonsquare Corners: Attach facing material so there are no seams or gathering of material.
   3. Fabrics with Directional or Repeating Patterns or Directional Weave: Mark fabric top and attach fabric in same direction so pattern or weave matches in adjacent units.

E. Dimensional Tolerances of Finished Units: Plus or minus 1/16 inch (1.6 mm) for the following:

   1. Thickness.
   2. Edge straightness.
   3. Overall length and width.
   4. Squareness from corner to corner.
   5. Chords, radii, and diameters.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine fabric, fabricated units, veneers, substrates, areas, and conditions for compliance with requirements, installation tolerances, and other conditions affecting unit performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install units in locations indicated. Unless otherwise indicated, install units with vertical surfaces and edges plumb, top edges level and in alignment with other units, faces flush, and scribed to fit adjoining work accurately at borders and at penetrations.

B. Comply with manufacturer's written instructions for installation of units using type of mounting devices indicated. Mount units securely to supporting substrate.

C. Align fabric pattern and grain with adjacent units and as indicated on Drawings.

3.3 INSTALLATION TOLERANCES

A. Variation from Plumb and Level: Plus or minus 1/16 inch (1.6 mm) in 48 inches (1200 mm), noncumulative.

B. Variation of Joint Width: Not more than 1/16-inch (1.6-mm) variation from hairline in 48 inches (1200 mm), noncumulative.

3.4 CLEANING

A. Clip loose threads; remove pills and extraneous materials.

B. Clean panels on completion of installation to remove dust and other foreign materials according to manufacturer's written instructions.

C. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 098400

SECTION 10 14 00 – SIGNAGE

Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.01 SUMMARY

A. Provisions of Division 01 apply to this section.

1.02 Section Includes:

A. Interior and exterior accessibility and identification signs.

B. Interior directories.

C. Exterior directional signs.

D. Dimensional characters.

1.03 References

A. CAS/CAR - California Accessibility Statutes and California Accessibility Regulations current edition of CBC.

B. California Building Code.

C. Chapter 3, Title 19, CCR.

D. ASTM D4802-02 Standard Specification for Poly(Methyl Methacrylate) Acrylic Plastic Sheet.

E. A B209-04 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

F. ASTM B221-04a Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

G. California Fire Code, Article 79 - Flammable and Combustible Liquids - Section 7901, 9701.9 Labeling and Signs.

H. California fire code, Article 64 - Stationary Lead- Acid Battery Systems - Section 6401 and 6404.7 - Signs.

I. CBC Chapter 7, Fire Resistant Materials and Construction - 713.13 Signs.

J. Uniform Sign Code Book.

1.04 SUBMITTALS

A. Shop Drawings: Submit Shop Drawings indicating sign style, lettering, overall dimensions and quantities. Submit floor plans showing locations for each sign.

B. Material Samples: Submit three samples illustrating full size sample sign, of type, style and color specified.

C. Manufacturer’s installation instructions.

1.05 REGULATION REQUIREMENTS

A. Comply with CBC Sections 11B-703. Nothing in this specification shall be construed to relieve the Contractor of complying with all applicable codes.

B. Color of symbol: The international symbol of accessibility shall consist of blue equal to Color No. 15090 in Federal Standard 595C, CBC 11B-703.7.2.1.

C. Signage and Graphics:

1. Raised characters shall comply with CBC Section 11B-703.2.

a. Depth: It shall be 1/32 inch minimum above their background and shall be sans serif uppercase and be duplicated in Braille.

b. Height: It shall be 5/8" minimum and 2 inches maximum based on the height of the uppercase letter "i". CBC Section 11B-703.2.5.

c. Finish and Contrast: Characters and their background shall have non-glared finish. Character shall contrast with their background with either light characters on a dark background or dark characters on a light background. CBC Section 11B-703.5.1.

d. Proportions: It 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". Stroke thickness of the uppercase letter "I" shall be 15% maximum of the height of the character. CBC Section 11B-703.4 and 11B-703.6.

e. Character Spacing: Spacing between individual tactile characters shall comply with CBC Section 11B-703.2.7 and 11B-703.2.8.

f. Braille: It shall be contracted (Grade 2) and shall comply with CBC Section 11B-703.3 and 11B-703.4. Braiile dots shall have domed and rounded shape and shall comply with CBC Table and Figure 11B-703.3.1.

g. Mounting Height: A tactile sign shall be located 48" minimum to the baseline of the lowest Braille cells and 60" maximum to the baseline of the highest line of raised characters above the finish floor or ground surface.

h. Mounting Location: A tactile sign shall be located on the approach side, as one enters or exits rooms or space, and be reached within 0" of the required clear floor space per CBC Section and Figure 11B-703.4.2 as follows:

1) a clear floor space of 18" x 18" minimum, centered on the tactile characters, shall be provided beyond the arc of any door swings between the closed position and 45 degree open position.

2) on the wall at the latch side of a single door.

3) on the inactive leaf of a double door with one active leaf.

4) on the wall at the right side of a double door with two active leafs

5) on the nearest adjacent wall where there is no wall space at the latch side of a single door or no space at the right side of a double door with two active leafs.

2. Visual characters shall comply with CBC Section 11B-703.5 and shall be 40" minimum above finish floor or ground.

3. Pictograms shall comply with CBC Section 11B-703.6.

4. Symbol of accessibility shall comply with CBC Section 11B-703.7.

1.06 PRE-INSTALLATION CONFERENCE

A. Notify Architect when signs are ready for installation. Arrange for conference at site. Do not proceed with installation until Architect's approval of specific locations and methods of attachment has been obtained.

B. Provide signs from one manufacturer, unless otherwise approved.

1.07 DELIVERY, STORAGE AND HANDLING

A. Deliver products to site and protect from damage. Store until immediately prior to Notice of Completion.

1.08 WARRANTY

A. Project Warranty: Comply with requirements of Division 1.

B. Manufacturer's Warranty: Submit manufacturer's standard warranty document executed by authorized company official.

C. Warranty Period: Two (2) years from Notice of Completion.

PART 2 - PRODUCTS

2.01 GENERAL

A. Refer to drawings for additional information for signage types and locations.

2.02 MANUFACTURERS

A. Products of following manufacturers form basis for design and quality intended.

1. ~~ASI (as-basis-of design)~~ Arcadia 2000 Series ***ADD 03***

a. Infinity Series.

b. SignEtch I and II Series.

c. Compass Series.

d. SP Series.

2. Or Equal.

2.03 ROOM IDENTIFICATION SIGNAGE - INTERCHANGEABLE

A. Interior modular interchangeable signs mounted on perforated chassis backer; Infinity Series by ASI.

B. Chassis: Material: Cold rolled, low carbon steel, die perforated 18 ga. sheet with high temperature cured powder coating.

C. Module Attachment and Registration:

1. PresTab™: Permanently mounted attachment, injection molded black nylon.

D. Manufacturing tolerance: +/- 0.008 in.

E. ADA-Ready™ Panels: Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer’s phenolic photopolymer bonded process. Signface of single material, tactile characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.

1. Finish: Two-component high temperature cured polyester coating per manufacturer's standard for phenolic photopolymer material.

2. Panel size: As indicated on drawings.

3. Panel colors: To be selected by Architect from manufacturer's standard.

4. Text or graphic colors: To be selected by Architect from manufacturer's standard.

5. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.
6. Text or graphic schedule: To be determined by Owner as part of submittal review process.

F. Graphic Panels:

1. Material: Aluminum alloy per manufacturer's standard.
2. Finish: Two-component polyester coating per manufacturer's standard.
3. Panel size: As indicated on drawings.
4. Panel colors: To be selected by Architect from manufacturer's standard.
5. Text or graphic colors: To be selected by Architect from manufacturer's standard.
6. Graphic technique: Print on Panel (POP).
7. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

G. Text or graphic schedule: To be determined by Owner as part of submittal review process.

H. Accessories: Provide manufacturer's standard accessories as follows:

1. WindowSign™. Material: Extruded aluminum and painted.
2. Notebar™. Material: Extruded aluminum and painted.
3. Mounting: Wall Mounted with bond, closed cell tape.

I. Locations: All interior rooms except utility rooms. Refer to drawings for locations.

2.04 ROOM IDENTIFICATION SIGNAGE - PERMANENT

A. Interior modular permanent signs mounted on perforated chassis backer; ~~Infinity Series by ASI.~~ ***ADD 03***

B. Chassis: Material: Cold rolled, low carbon steel, die perforated 18 ga. sheet with high temperature cured powder coating.

C. Module Attachment and Registration:

1. PresTab™: Permanently mounted attachment, injection molded black nylon.

D. Manufacturing tolerance: +/- 0.008 in.

E. ADA-Ready™ Panels: Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer’s phenolic photopolymer bonded process. Signface of single material, tactile characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.

F. Finish: Two-component high temperature cured polyester coating per manufacturer's standard for phenolic photopolymer material.

G. Panel size: As indicated on drawings.

H. Panel colors: To be selected by Architect from manufacturer's standard.

I. Text or graphic colors: To be selected by Architect from manufacturer's standard.

J. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

K. Text or graphic schedule: To be determined by Owner as part of submittal review process.

L. Graphic Panels:

1. Material: Aluminum alloy per manufacturer's standard.
2. Finish: Two-component polyester coating per manufacturer's standard.
3. Panel size: As indicated on drawings.
4. Panel colors: To be selected by Architect from manufacturer's standard.
5. Text or graphic colors: To be selected by Architect from manufacturer's standard.
6. Graphic technique: Print on Panel (POP).
7. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.
8. Text or graphic schedule: To be determined by Owner as part of submittal review process.

M. Linear Accents: Provide manufacturer's standard linear accents as follows:

1. Type A-Square. Material: Aluminum alloy. Finish: High Temperature Cured Polyester Coating.

N. Mounting: Wall Mounted with bond, closed cell tape.

O. Locations: All interior rooms, except rooms to receive interchangeable room identification signs. Refer to drawings for locations.

2.05 ROOM IDENTIFICATION - EXTERIOR

A. ADA-Ready™ Panels; SignEtch I Series by ASI.

B. Base Material: Zinc, in 0.125 inch thickness. Photochemically-Etched ADA panels.

C. Paint: Primer and urethane based color coat, of type standard with manufacturer with U.V. resistant clear urethane top coat.

D. Tactile Graphics and Text:

1. Fabrication process: Provide tactile copy and grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer’s photochemical etching.

E. Provide lettering and graphics precisely formed, uniformly opaque to comply with relevant ADA regulations and requirements indicated for size, style, spacing, content, position, and colors.

F. Edge Detail: Square

G. Edge Finish: Painted.

H. Panel size: As indicated on drawings.

I. Panel colors: To be selected by Architect from manufacturer's standard.

J. Text or graphic colors: To be selected by Architect from manufacturer's standard.

K. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

L. Type A-Square. To be selected by Architect from manufacturer's standard.

M. Mounting: VT, vinyl tape and SA, silicone adhesive.

2.06 INTERIOR DIRECTORIES

A. Interior directories mounted on perforated chassis backer; Infinity Series by ASI.

B. Chassis: Material: Cold rolled, low carbon steel, die perforated 18 ga. sheet with high temperature cured powder coating.

C. Module Attachment and Registration:

1. LocTab™: Tamper resistant attachment, injection molded black nylon.

D. Manufacturing tolerance: +/- 0.008 in.

E. Size: As indicated on drawings.

F. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

G. Text or graphic schedule: To be determined by Owner as part of submittal review process.

H. Graphic Panels:

1. Material: Aluminum alloy per manufacturer's standard.

2. Finish: Two-component polyester coating per manufacturer's standard.

3. Panel size: As indicated on drawings.

4. Panel colors: To be selected by Architect from manufacturer's standard.

5. Text or graphic colors: To be selected by Architect from manufacturer's standard.

6. Graphic technique: LTV vinyl process. To be selected by Architect from manufacturer's standard.

7. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

8. Text or graphic schedule: To be determined by Owner as part of submittal review process.

I. Accessories:

1. Spare Panels.

J. Linear Accents: Provide manufacturer's standard linear accents as follows:

1. Type A-Square. To be selected by Architect from manufacturer's standard.

K. Mounting: System shall have a concealed locking method to increase level of tamper resistant.

L. Locations: As indicated on drawings. Provide directories for all floor levels on the first floor. For second floor, provide directory for its own floor level.

2.07 EMERGENCY EVACUATION MAPS

A. Interior modular interchangeable signs mounted on perforated chassis backer; Infinity Series by ASI.

B. Chassis: Material: Cold rolled, low carbon steel, die perforated 18 ga. sheet with high temperature cured powder coating.

C. Module Attachment and Registration:

1. PresTab™: Permanently mounted attachment, injection molded black nylon.

D. Manufacturing tolerance: +/- 0.008 in.

E. ADA-Ready™ Panels: Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer’s phenolic photopolymer bonded process. Signface of single material, tactile characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.

F. Finish: Two-component high temperature cured polyester coating per manufacturer's standard for phenolic photopolymer material.

G. Panel size: As indicated on drawings.

H. Panel colors: To be selected by Architect from manufacturer's standard.

I. Text or graphic colors: To be selected by Architect from manufacturer's standard.

J. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

K. Text or graphic schedule: To be determined by Owner as part of submittal review process.

L. Linear Accents: Provide manufacturer's standard linear accents as follows:

1. Type A-Square. Material: Aluminum alloy. Finish: High Temperature Cured Polyester Coating.

M. Accessories: Provide manufacturer's standard accessories as follows:

1. WindowSign™. Material: Extruded aluminum and painted.

2. Graphic technique: Print on Panel (POP).

3. Minimum 144 sq. in size, manufacturer’s standard approved by Architect, graphic layout indicating major building elements, corridors, exits, fire protection devices, routes of travel and required emergency information, in minimum 3 colors, tactile where required.

4. Conform to Section 3.09, Title 19, CCR.

N. Linear Accents: Provide manufacturer's standard linear accents as follows:

O. Type A-Square. To be selected by Architect from manufacturer's standard.

P. Mounting: Wall Mounted with bond, closed cell tape.

1. Locations: Locate at each stair and elevator landing and immediately inside all public entrances. Refer to drawings for locations.

2.08 ACCESSIBILITY EXIT/EXIT ROUTE SIGNAGE

A. Interior Applications:

1. ADA-Ready™ Panels; Infinity Series by ASI.

2. Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer’s phenolic photopolymer bonded process. Signface of single material, tactile characters and Braille integral to photopolymer. Adhesive-fixed characters are not acceptable.

3. Finish: Two-component high temperature cured polyester coating per manufacturer's standard for phenolic photopolymer material.

B. Exterior Applications:

1. ADA-Ready™ Panels; SignEtch I Series by ASI.

2. Base Material: Zinc, in 0.125 inch thickness. Photochemically-Etched ADA panels.

3. Paint: Primer and urethane based color coat, of type standard with manufacturer with U.V. resistant clear urethane top coat.

C. Tactile Graphics and Text:

1. Fabrication process: Provide tactile copy and grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer's photochemical etching.

D. Provide lettering and graphics precisely formed, uniformly opaque to comply with relevant ADA regulations and requirements indicated for size, style, spacing, content, position, and colors.

E. Edge Detail: Square

F. Edge Finish: Painted.

G. Panel size: As indicated on drawings.

H. Panel colors: To be selected by Architect from manufacturer's standard.

I. Text or graphic colors: To be selected by Architect from manufacturer's standard.

J. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

K. Type A-Square. To be selected by Architect from manufacturer's standard.

L. Mounting (interior applications): Wall mounted with bond, closed cell tape.

M. Mounting (exterior applications): VT, vinyl tape and SA, silicone adhesive.

N. Locations: Provide at each accessible building entrance. Include International symbol of accessibility with text "This facility entirely accessible by persons with disabilities", manufacturer's standard, approved by Architect. Sign shall be visible to persons along approaching pedestrian ways.

O. Provide Traffic Control Directional signs at every junction along the Route of Travel with arrow indicators and international sign of accessibility, Section 1117B.5.10.

P. Conform to Sections 1115.B.5 through 1117B.5, California Building Code.

2.09 RESTROOM SIGNS

A. Restroom Wall Signs:

1. ADA-Ready™ Panels; Infinity Series by ASI.

2. Material: Provide tactile copy and Grade 2 Braille raised 1/32 inch minimum from plaque first surface by manufacturer's phenolic photopolymer bonded process. Signface of single material, tactile characters and Braille integral to photopolymer. Provide raised characters and symbols to conform to California Building Code. Adhesive-fixed characters are not acceptable.

3. Finish: Two-component high temperature cured polyester coating per manufacturer's standard for phenolic photopolymer material.

B. Restroom Door Signs:

1. Panels; SP Series by ASI.

2. Material: Photo-etched polymer panel with subsurface paint and graphics applied to non-glare clear lens.

3. Provide restroom signage on door, and restroom identification sign as shown on drawings.

C. Panel size: As indicated on drawings.

D. Panel colors: To be selected by Architect from manufacturer's standard.

E. Text or graphic colors: To be selected by Architect from manufacturer's standard.

F. Letter styles, letter sizes and layout position: As indicated on drawings. To be selected by Architect from manufacturer's standard.

G. Mounting: Wall mounted with bond, closed cell tape.

2.10 OCCUPANT LOAD SIGNS

A. Refer to Restroom Door Sign above for panel materials and finish.

B. Provide maximum occupancy load signs in locations noted on the Drawings. Conform to Section 1003.2.2 California Building Code.

C. Panel size: As indicated on drawings.

2.11 STAIRWAY LEVEL IDENTIFICATION

A. Refer to Accessibility Exit/Exit Route Signage above for panel materials and finish.

B. Mount signs 60 inches above each floor landing immediately adjacent to door on strike side. Conform to Section 1133B.4.3 and 1117B5.2 California Building Code

C. Panel size: As indicated on drawings.

2.12 ELEVATOR EMERGENCY SIGNS AND WHEELCHAIR LIFT

A. Refer to Accessibility Exit/Exit Route Signage above for panel materials and finish.

B. Provide approved pictorial sign of standardized design, posted adjacent to each elevator and wheelchair lift call station, except main entrance level. Conform to Section 3003.6 California Building Code.

C. Sign shall indicate that in case of fire, elevator or wheelchair lift will not operate and exit stairways shall be used.

D. Panel size: As indicated on drawings.

2.13 EMERGENCY GAS-SHUT OFF SIGN

A. Refer to SignEtch I Series above for panel type and finish.

B. Locations: Refer to Mechanical drawings.

C. Size: 6” x 6”, text to include: “Emergency Gas-Shut Off Valve.”

2.14 FIRE SPRINKLER RISER ROOM SIGN

A. Refer to Restroom Door Sign above for panel materials and finish.

B. Locate one sign at each fire sprinkler riser room door as indicated in drawings.

C. Text: Sign to read “Fire Sprinkler Riser Room”, white color letters, 1 inch high on red background.

2.15 MISCELLANEOUS SIGNS

A. For all other signs indicated on drawings, provide materials and finish per the Accessibility Exit/Exit Route Signage section above with ADA Panel, Infinity Series for interior applications, and Sign Etch I Series for exterior applications.

2.16 EXTERIOR DIRECTIONAL SIGNAGE

A. Basis-of-Design: Compass Series Double Posts and Panel by ASI, Inc. or equal. Exterior aluminum sign with interchangeable components.

1. Double Post and Panel Signs:

2. Panel size:(1) 12”(h) x 18”(w) panel, and (2) 4-3/4”(h) x 18”(w) panels

3. Panel type: Regular panel, 1" (25 mm) wide.
4. Panel Attachment Type: Top loading panels.
5. Posts:
   a. (1) Round Post: 3-1/2" (90 mm) diameter x 60”(h), one channel post.
   b. (1) Triangular Post: 6-7/8" (175 mm) face width post x 60”(h).
6. Mounting: Manufacturer's standard galvanized steel ground sleeve in 24” diameter x 36” deep concrete footing for posts. Concrete strength shall be a minimum 2,500psi.

B. Materials and Components:
1. Aluminum Panels: Meeting ASTM B209, alloy EN 5052 H12, minimum 0.05" (1.25mm) thick.
2. Aluminum Extrusions: Meeting ASTM B221, alloy 6063-T5.
3. Accessories: Provide end caps, couplings, coupling fittings, mounting fittings, interchangeable fittings, and other hardware and accessories for a complete installation.
4. Finish: Manufacturer's standard two-phase, high temperature cured polyester color coating as follows:
5. Primer: 2 mil thick chromium layer for optimum surface coat adhesion and weatherability.
6. Top Coat: Two-component, water-based, non-toxic, lead-free, zero emissions, high temperature cured polyester coating of 2-3 mil thickness.
7. Colors: To be selected by Architect from manufacturer's standard.
8. Text/Graphics Color: Refer to Drawings.
9. Font: To be selected by Architect from manufacturer's standard.

C. Tamper Resistance: System shall a concealed locking method to increase level of tamper resistance.

D. Mounting: Signs must be able to accommodate installation via fully concealed mechanical fasteners.

2.17 DUAL PLUMBED RECLAIMED WATER SIGNAGE

A. Provide signage per requirement for **Irvine Ranch Water Dsitrict (IRWD)** requirements.

B. Products of the following manufacturer form the basis for design and quality intended:
1. APCO Signs; Full View Series

C. Material: laminated plastic
1. Upper layer: Non-glare, clear acrylic, 1/8” thick.
2. Lower layer: Opaque acrylic, 1/8” thick.
3. Polished edges.
4. Color selected by Architect.
5. Location and Size: As indicated on drawings.

D. Material: aluminum
1. Color: Per IRWD standards
2. Location and Size: As indicated on drawings.

E. Material: vinyl

1. Color: Per IRWD standards

2. Location and Size: As indicated on drawings.

F. Provide vinyl with adhesive on backside in order to attach to inside of access panel door as indicated on Drawings.

2.18 DIMENSIONAL CHARACTERS

A. Basis-of-Design: Series LPS Dimensional Cut Letters by ASI, Inc. or equal.

B. Building Name: Comply with requirements indicated for finish, style, and size:

1. Material: Aluminum, Clear Anodized.

2. Character Thickness: 1 inch.

3. Character Height: 12 inch high. Letters shall read "ADVANCED TECHNOLOGY & EDUCATION PARK".

4. Character Style: Deep Ribbon.

5. Location: To be determined owner.

a. Mounting: Projected mechanical attachment to substrate. Field verify mounting substrate prior to fabrication

C. Adjacent to Interior Directory: Comply with requirements indicated for finish, style, and size:

1. Material: Aluminum, Clear Anodized.

2. Character Thickness: As shown on drawings.

3. Character Height: As shown on drawings.Letters shall read "DIRECTORY".

4. Character Style: Deep Ribbon.

5. Location: As shown on drawings.

a. Mounting: Projected mechanical attachment to substrate. Field verify mounting substrate prior to fabrication

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify fonts, texts for each signs with Architect.

B. Verify that surfaces are ready to receive work.

C. Beginning of installation means installer accepts existing surfaces.

3.02 METHODS OF INSTALLATION

A. Interior Identification Signs and Interior Directional Signs:

1. Fasten sign to wall with very high-bond double-faced tape.

2. For installation on glass, fasten sign to glass with very high bond double faced tape. On opposite side of glass, anchor matching backplate to glass with very high-bond double-faced tape.

a. Exterior Wall Mounted Identification Signs :

1) Install to wall with 4 tampered-proof counter-sunk fasteners; one at each corners of sign.

b. Exterior Building Sign:

1) Each letter shall be furnished with a minimum of 3 cast mounting lugs on backside, drilled and tapped to receive installation bolts.

2) Letters shall be installed according to manufacturer's method PMC-1. Letters shall be installed 3/4 inch away from wall surface, by an aluminum sleeve spacer.

3.03 CLEANUP

A. Remove rubbish, debris, and waste materials and legally dispose of off Project site.

B. PROTECTION

1. Protect Work of this section until Substantial Completion.

END OF SECTION

SECTION 102800 - TOILET, BATH, ~~AND LAUNDRY~~ ACCESSORIES ***ADD 03***

Revised, Addendum 03, 05/19/22

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Public-use washroom accessories.
2. Warm-air dryers.
3. Underlavatory guards.
4. Custodial accessories.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: Full size, for each exposed product and for each finish specified.

1.3 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 WARRANTY

A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. California Building Code:

1. Elements of sanitary facilities shall be mounted at location in compliance with CBC Sections 11B-602 through 11B-612
2. Grab bars in toilet facilities and bathing facilities shall comply with CBC Section 11B-609. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or

be as follows:

a. 1-1/2 inch between the grab bar and wall.
b. 1-1/2 inch minimum between the grab bar and projecting objects below and at the ends.
c. 12 inch minimum between the grab bar and projecting objects above.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

A. Manufacturers:

1. Bobrick (Basis-of-Design)
2. American Specialties, Inc. ***ADD 03***
3. Bradley Corporation ***ADD 03***
4. Approved Equal

B. General: Provide heavy duty, 22 gauge, type 304 stainless steel accessories with satin finish (no. 4).

C. Source Limitations: Obtain public-use washroom accessories from single source from single manufacturer.

A. Toilet Tissue (Roll) Dispenser:

1. Basis-of-Design:
   ~~a. Bobrick B-2888 (surface mounted)~~ ***ADD 03***
   b. Georgia Pacific #59209
      i. Type: Surface-Mounted Twin Jumbo-Roll
      ii. Cabinet: Plastic
      iii. Color: Translucent Smoke
      iv. Dimensions 20-1/4"W, 5 2/3" D, 12-19/25"H ***ADD 03***

   ~~b. Bobrick B-3888 (Recessed - at accessible toilets)~~ ***ADD 03***

2. Double roll, stainless steel unit with tumbler lock.
3. Provide toilet tissue dispenser with continuous flow at accessible toilets.

B. Combination Towel (Folded) Dispenser/Waste Receptacle:

~~1. Basis-of-Design: Bobrick B-3944.~~
~~2. Recessed with projecting waste receptacle, stainless steel; seamless wall flanges, continuous piano hinges, tumbler locks on upper and lower doors.~~ ***ADD 03***
1. Product Basis of Design: Bobrick B3961

a. Type: Semi-recess mount
b. Material: 18-8 S, type 304, 22-gage, satin-finish stainless steel
c. Waste Receptacle Lid: Metal cover
d. Seamless beveled flange
e. Accepts paper rolls 8" wide, 800 ft long
f. Delivers preset length of towel: 2-1/2", 4" or 5" per stroke
g. Removable, 12-gal receptacle locks into cabinet ***ADD 03***

C. Toilet Seat Cover Dispenser:

1. Basis-of-Design: Bobrick B221
2. Satin-finish stainless steel. Dispense 250 single- or half-fold toilet seat covers or one box.

D. Liquid-Soap Dispenser:

1. Basis-of-Design: Bobrick B-2111.
2. Liquid soap dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gage refill indicator, tumbler lock. ***ADD 03***

E. Grab Bar: Stainless steel, nonslip grasping surface finish.

2. Standard Duty Grab Bars:
   a. Push/Pull Point Load: 250 pound-force, minimum.
   b. Dimensions: 1-1/4 inch outside diameter, minimum 0.05 inch wall thickness, exposed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar.
   c. Length and Configuration: As indicated on drawings.

F. Sanitary-Napkin Disposal Unit:

1. Basis-of-Design: Bobrick B-254
2. Stainless steel, surface-mounted or recessed as indicated, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.

G. Mirror Unit:

1. Basis-of-Design: ~~Bobrick B-165 series~~. Bobrick B-290 2436 MBLK
2. ~~One-piece roll-formed, type 304 stainless steel angle framed mirror with continuous stiffener on all sides. No. 1 quality, ¼ inch select float glass mirror with type 304 stainless steel channel frame with bright polished finish.~~
3. Type 304 stainless steel angle with matte black finish.
4. Size: 24" x 36". ***ADD 03***

2.3 WARM-AIR DRYERS

A. Warm-Air Dryer:

1. Basis-of-Design: Excel Dryer Model XL-SB
2. Description: Standard-speed, vandal resistant, ADA compliant warm-air hand dryer.
3. Mounting: Semi-recessed. Provide manufacturer's standard stainless steel recess kit.
4. Operation: Electronic-sensor activated with timed power cut-off switch.
5. Cover Material and Finish: Stainless steel, No. 4 finish (satin).

6. Electrical Requirements: 11.3-12.2 amps, 1240-1450 Watts at 120 Vac Nominal.

2.4 UNDERLAVATORY GUARDS

A. Under lavatory Guard:

1. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.
2. Material and Finish: Antimicrobial, molded plastic, white.

2.5 CUSTODIAL ACCESSORIES

A. Utility Shelf:

1. Description: With exposed edges turned down not less than 1/2 inch and supported by two triangular brackets welded to shelf underside.
2. Size: 16 inches long by 6 inches deep.
3. Material and Finish: Not less than nominal 0.05-inch- thick stainless steel, No. 4 finish (satin).
4. Description: Unit with shelf, hooks, holders, and rod suspended beneath shelf.
5. Length: 36 inches.
6. Hooks: Four.
7. Mop/Broom Holders: Three, spring-loaded, rubber hat, cam type.
8. Material and Finish: Stainless steel, No. 4 finish (satin).

   a. Shelf: Not less than nominal 0.05-inch- thick stainless steel.
   b. Rod: Approximately 1/4-inch- diameter stainless steel.

2.6 FABRICATION

A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

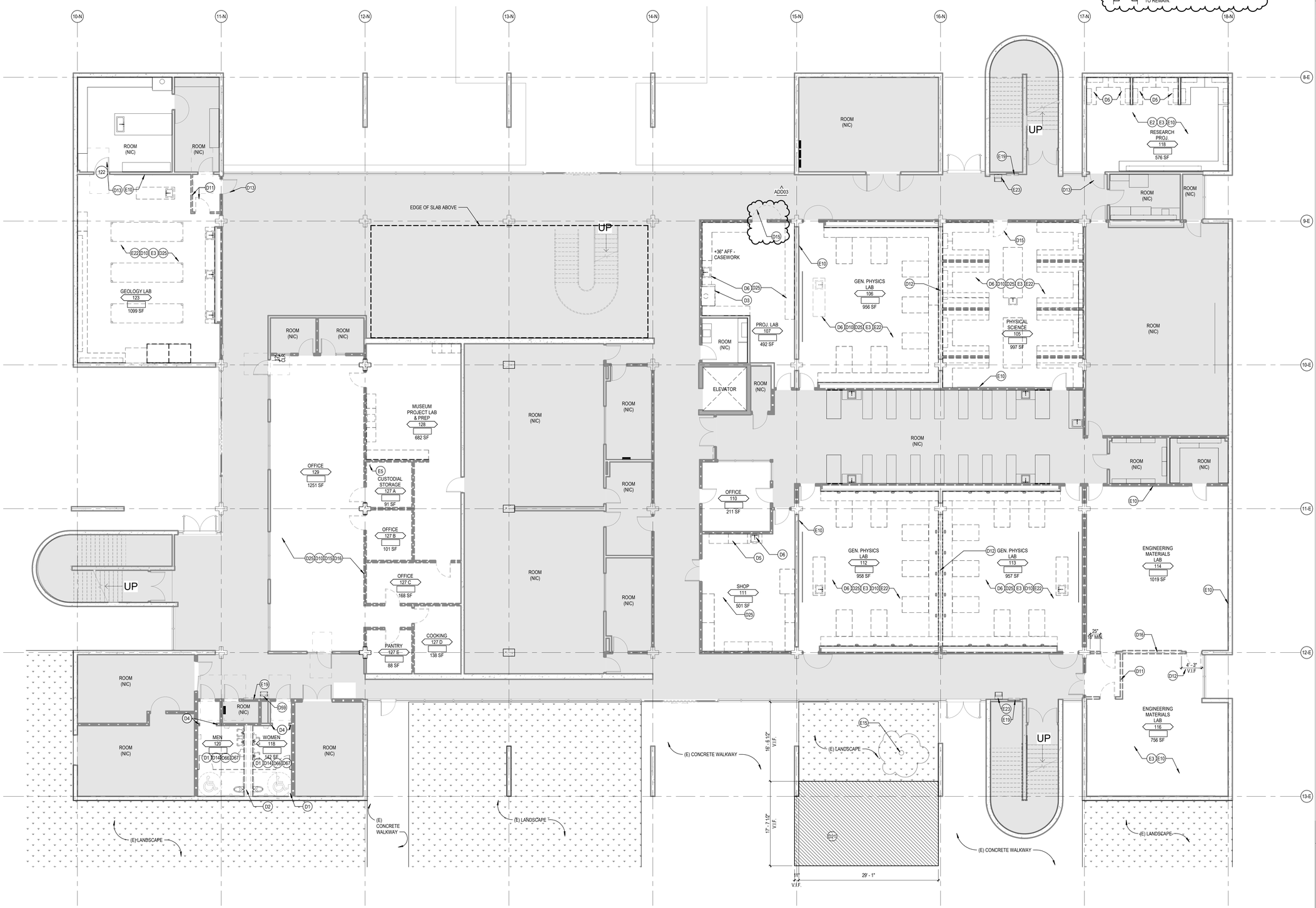
A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

END OF SECTION 102800

DEMOLITION LEGEND

- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE
- EXISTING TO BE DEMOLISHED
- EXISTING NON-BEARING WALL TO BE DEMOLISHED
- EXISTING WALLS TO REMAIN
- EXISTING DOOR AND FRAME ASSEMBLY TO BE DEMOLISHED.
- EXISTING DOOR AND DOOR FRAME ASSEMBLY TO REMAIN.



OVERALL DEMOLITION PLAN, LEVEL 1

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

0 5 10 20
SCALE: 1/8" = 1'=0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. CEILINGS AND ACCESSORIES ARE EXISTING TO REMAIN UNLESS NOTE OTHERWISE.
B. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
C. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
D. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
E. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
F. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
G. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
H. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY MATERIALS.
I. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO ANY DEMOLITION OR CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.
J. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND/OR CONDITION.
K. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED OTHERWISE OR AS AUTHORIZED BY ARCHITECT.
L. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, COMMUNICATION AND DATA CABLES TO PREVENT INTERRUPTION OF THEIR SERVICE.
M. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO MAINTAIN FIRE-RESISTANCE-RATED SEPARATIONS. FINISH AS REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.
N. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE WALL OR FLOOR. PATCH AND FINISH AS REQUIRED TO MATCH NEW OR EXISTING ADJACENT SURFACES.
O. SEE MECHANICAL PLUMBING AND ELECTRICAL DRAWINGS AND NOTES FOR FURTHER SEQUENCING AND SCOPE OF WORK.
P. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY SAWCUTTING ADJACENT PLASTER FINISH A MINIMUM OF 1'-0" BEYOND DEMOLITION.
Q. ALL DEMOLISHED MATERIALS TO BE DISPOSED OF OFF SITE IN A LEGAL MANNER PER ALL FEDERAL, STATE, COUNTY AND LOCAL ORDINANCES, REGULATIONS AND DIRECTIVES.
R. THE INTENT OF THE DEMOLITION DRAWINGS IS NOT TO SHOW EVERY ITEM, APPURTENANCES, SYSTEMS OR PIECES OF EQUIPMENT TO BE REMOVED. IT SHALL BE IMPLIED THAT DEMOLITION SHALL BE INCLUSIVE WHERE INDICATED AND THAT ITEMS, APPURTENANCES, SYSTEMS, SURFACES OR PIECES OF EQUIPMENT TO REMAIN SHALL BE PREPARED AND MADE READY TO RECEIVE ALTERATIONS AND NEW WORK AS REQUIRED.

REFERENCE KEYNOTES

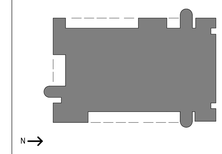
Key Value	Keynote Text
D1	DEMO (E) TOILET ACCESSORIES
D2	DEMOLISH (E) DOUBLE STUD WALL
D3	DEMO (E) HOOD - EXHAUST TO REMAIN
D4	DEMO (E) WALL TO ALIGN WITH ADJACENT WALL.
D5	DEMO (E) CASEWORK AS INDICATED
D6	EXISTING SINK TO BE REMOVED BY PLUMBING CONTRACTOR.
D10	DEMO (E) FLOOR FINISH
D11	DEMO (E) TEMP. PARTIAL HEIGHT PARTITION WALL AND DOOR
D12	DEMO FULL HEIGHT OF (E) NON-BEARING WALL
D13	DEMO (E) DOOR HARDWARE AND DOOR STOP. (E) DOOR AND FRAME TO REMAIN.
D14	DEMO (E) PLUMBING FIXTURE
D15	DEMO (E) DOOR & FRAME
D16	DEMO (E) WALL TO CEILING HEIGHT TO PROVIDE SOFFIT. REFER TO DETAIL 13/A10.1
D21	DEMO AND PREP (E) LANDSCAPE AREA FOR (N) CONCRETE PAD. VERIFY LOCATIONS OF (E) IRRIGATION TO BE RELOCATED AS REQUIRED.
D25	DEMO (E) FURNISHINGS AND EQUIPMENT AS INDICATED, REFER TO DEMOLITION LEGEND.
D59	(E) DF TO BE DEMOED. PIPES TO BE CAPPED. AFFECTED WALLS AND FLOOR FINISHES TO BE PATCHED TO MATCH EXISTING
D66	DEMO/REMOVE (E) TOILET PARTITIONS AS INDICATED
D67	DEMO/REMOVE (E) RESTROOM GRAB BARS
E2	PROTECT IN PLACE (E) CASEWORK TO REMAIN, U.N.O.
E3	(E) CEILING/SURFACE MOUNTED AV EQUIPMENT TO REMAIN. PROTRUSION AND LOCATIONS SHALL BE PER 25/G0.3 TYP.
E5	(E) PLUMBING PIPE TO REMAIN AND PROTECT IN PLACE
E10	PROTECT IN PLACE (E) WALL MOUNTED ACCESSORIES; MARKER BOARDS, WALL CLOCKS, POSTER CABINETS, TYP. ALL PROTRUSION OF ACCESSORIES SHALL BE 4" MAX FROM WALL UNLESS MOUNTED LESS THAN 27" MAX AFF TYP.
E15	VERIFY LOCATION OF (E) PALM TREE TO BE PROTECTED AND REMAIN DURING CONSTRUCTION
E19	(E) FIRE HOSE CABINET TO REMAIN
E22	(E) WALL FINISHES TO REMAIN, PROTECT IN PLACE
E23	(E) PLUMBING FIXTURE TO REMAIN. ALL PIPES SHALL BE INSULATED OR COVERED. AND FIXTURES SHOULD BE WITH NO SHARP EDGES OR ABRASIVE SURFACES

NOTE:
REFER TO PLANS TO SEE EXTENTS OF DEMOLITION

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



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9/30/2023
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9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL

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Revisions
AD003 5/19/22

75-21204-00

FIRST FLOOR DEMOLITION PLAN

AD1.1

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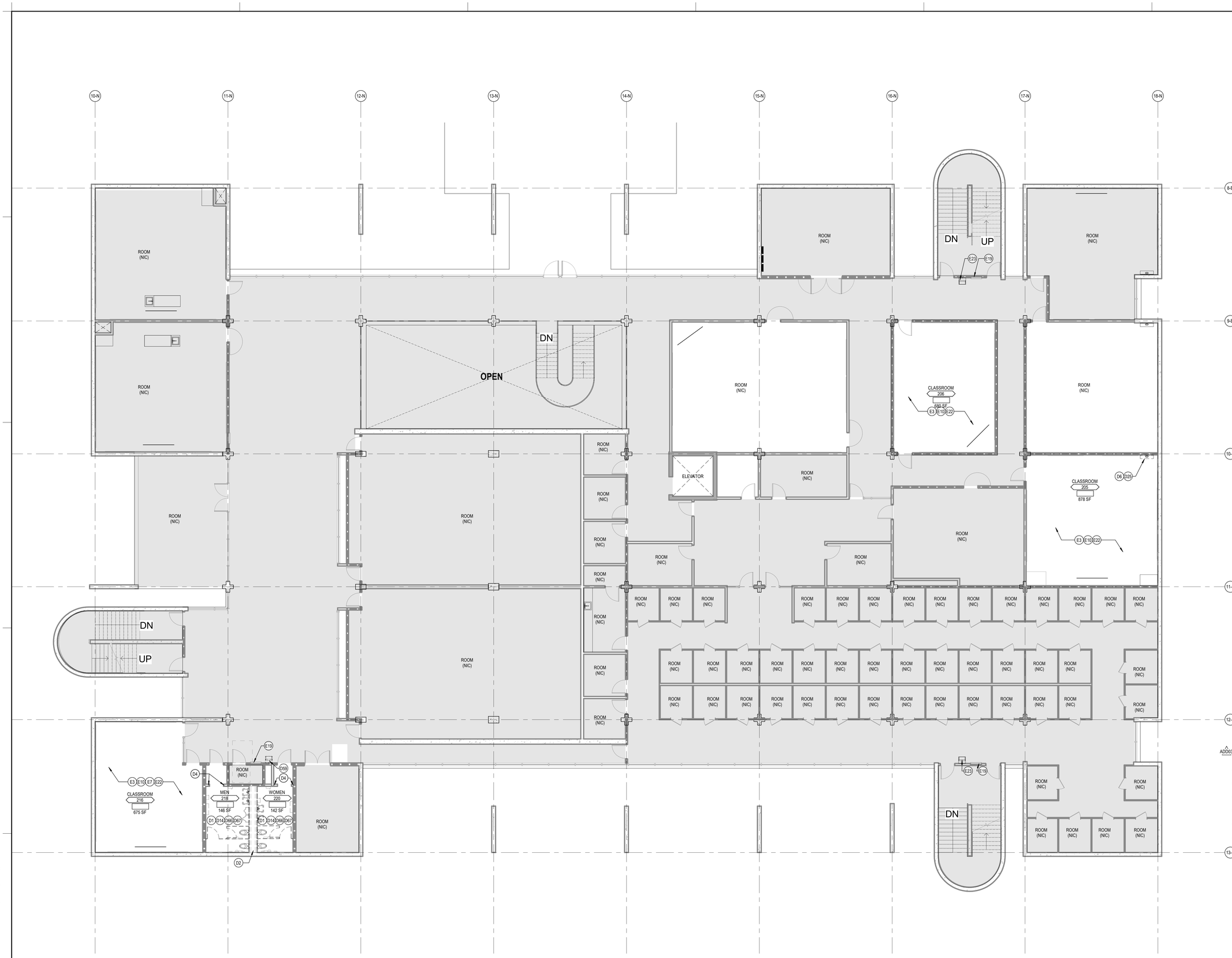

SECOND FLOOR DEMOLITION PLAN

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

0 5 10 20
SCALE: 1/8" = 1"=0"

DEMOLITION GENERAL NOTES

DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

THE CONTRACTOR SHALL:

A. CEILINGS AND ACCESSORIES ARE EXISTING TO REMAIN UNLESS NOTE OTHERWISE.
B. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S OPERATIONS. EXCESSIVE NOISE OR VIBRATION SHALL BE PRE-APPROVED AND COORDINATED WITH THE OWNER'S REPRESENTATIVE. IN ALL CASES, PROVISIONS SHALL BE MADE FOR USER'S SAFETY.
C. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE OWNER AND AS SPECIFIED.
D. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN THE EXISTING BUILDING WHICH OFFER A ONE-HOUR ENCLOSURE TO ISOLATE ANY DEMOLITION/CONSTRUCTION WORK FROM THE GENERAL PUBLIC AND AS DEEMED NECESSARY BY THE OWNER AND CODE OFFICIAL HAVING JURISDICTION. COORDINATE LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS THROUGHOUT THE WORK.
E. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
F. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
G. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
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D25	DEMO (E) FURNISHINGS AND EQUIPMENT AS INDICATED. REFER TO DEMOLITION LEGEND.
D59	(E) DF TO BE DEMOED. PIPES TO BE CAPPED. AFFECTED WALLS AND FLOOR FINISHES TO BE PATCHED TO MATCH EXISTING
D66	DEMO/REMOVE (E) TOILET PARTITIONS AS INDICATED
D67	DEMO/REMOVE (E) RESTROOM GRAB BARS
E3	(E) CEILING/SURFACE MOUNTED AV EQUIPMENT TO REMAIN, PROTRUSION AND LOCATIONS SHALL BE PER 25/G0.3 TYP.
E7	(E) DOOR AND FRAME TO REMAIN
E10	PROTECT IN PLACE (E) WALL MOUNTED ACCESSORIES; MARKER BOARDS, WALL CLOCKS, POSTER CABINETS, TYP. ALL PROTRUSION OF ACCESSORIES SHALL BE 4" MAX FROM WALL UNLESS MOUNTED LESS THAN 27" MAX AFF.TYP.
E19	(E) FIRE HOSE CABINET TO REMAIN
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E23	(E) PLUMBING FIXTURE TO REMAIN, ALL PIPES SHALL BE INSULATED OR COVERED. AND FIXTURES SHOULD BE WITH NO SHARP EDGES OR ABRASIVE SURFACES

NOTE:
REFER TO PLANS TO SEE EXTENTS OF DEMOLITION

DEMOLITION LEGEND

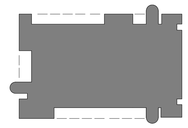
ADD03

- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE
- EXISTING TO BE DEMOLISHED
- EXISTING NON-BEARING WALL TO BE DEMOLISHED
- EXISTING WALLS TO REMAIN
- EXISTING DOOR AND FRAME ASSEMBLY TO BE DEMOLISHED.
- EXISTING DOOR AND DOOR FRAME ASSEMBLY TO REMAIN.

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



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Cypress College

DSA APPROVAL

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Revisions
ADD03 5/19/22

75-21204-00

SECOND FLOOR DEMOLITION PLAN

AD1.2

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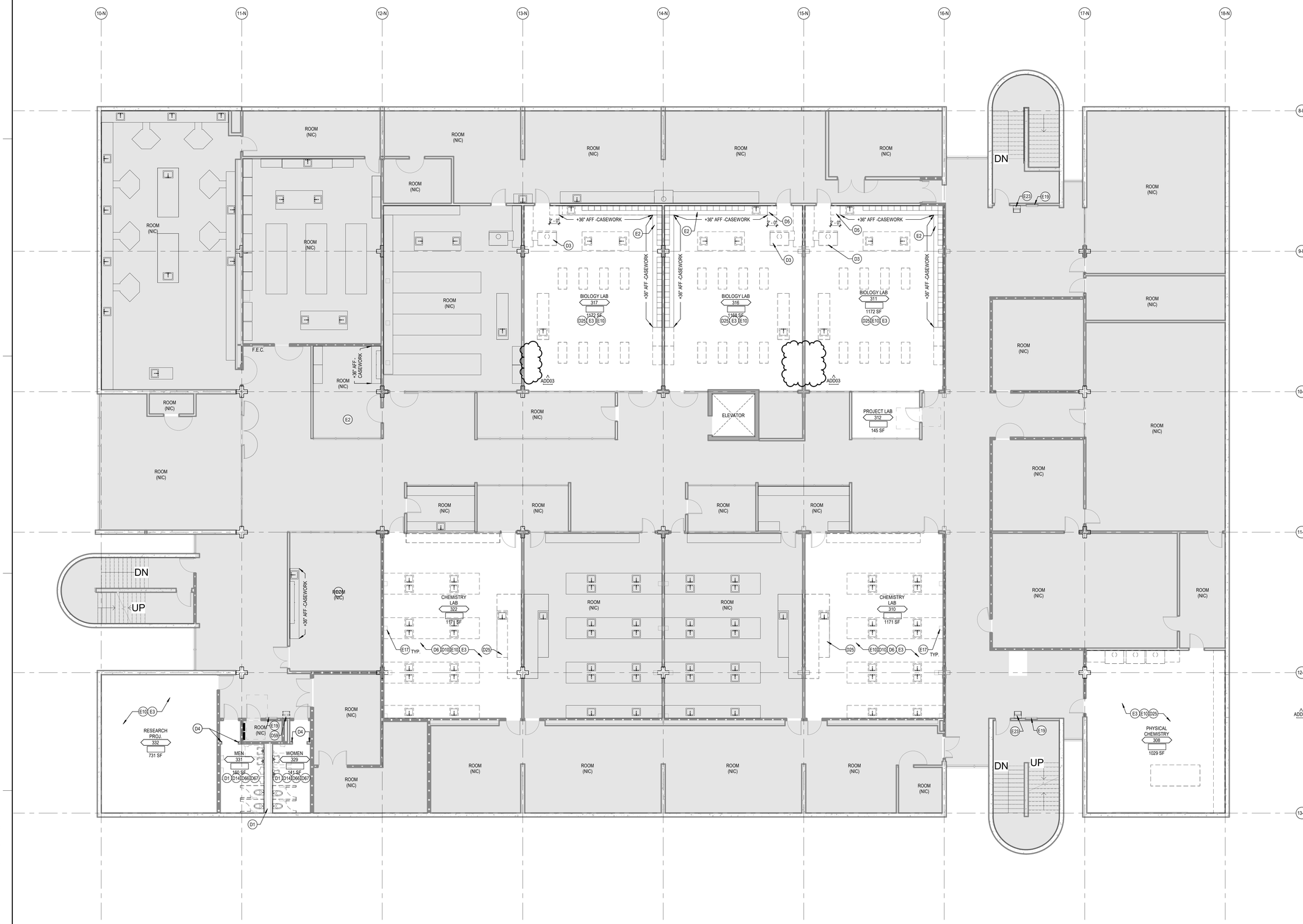

THIRD FLOOR DEMOLITION PLAN

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

0 5 10 20
SCALE: 1/8" = 1"=0"

DEMOLITION GENERAL NOTES

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REFERENCE KEYNOTES

Key Value	Keynote Text
D1	DEMO (E) TOILET ACCESSORIES
D3	DEMO (E) HOOD - EXHAUST TO REMAIN
D4	DEMO (E) WALL TO ALIGN WITH ADJACENT WALL.
D5	DEMO (E) CASEWORK AS INDICATED
D6	EXISTING SINK TO BE REMOVED BY PLUMBING CONTRACTOR.
D10	DEMO (E) FLOOR FINISH
D14	DEMO (E) PLUMBING FIXTURE
D25	DEMO (E) FURNISHINGS AND EQUIPMENT AS INDICATED, REFER TO DEMOLITION LEGEND.
D59	(E) DF TO BE DEMOED. PIPES TO BE CAPPED. AFFECTED WALLS AND FLOOR FINISHES TO BE PATCHED TO MATCH EXISTING
D66	DEMO/REMOVE (E) TOILET PARTITIONS AS INDICATED
D67	DEMO/REMOVE (E) RESTROOM GRAB BARS
E2	PROTECT IN PLACE (E) CASEWORK TO REMAIN, U.N.O.
E3	(E) CEILING/SURFACE MOUNTED AV EQUIPMENT TO REMAIN. PROTRUSION AND LOCATIONS SHALL BE PER 25/G0.3 TYP.
E10	PROTECT IN PLACE (E) WALL MOUNTED ACCESSORIES: MARKER BOARDS, WALL CLOCKS, POSTER CABINETS, TYP. ALL PROTRUSION OF ACCESSORIES SHALL BE 4" MAX FROM WALL UNLESS MOUNTED LESS THAN 27" MAX AFF. TYP.
E17	(E) FUME EXHAUST HOOD TO REMAIN
E19	(E) FIRE HOSE CABINET TO REMAIN
E23	(E) PLUMBING FIXTURE TO REMAIN, ALL PIPES SHALL BE INSULATED OR COVERED, AND FIXTURES SHOULD BE WITH NO SHARP EDGES OR ABRASIVE SURFACES

NOTE:
REFER TO PLANS TO SEE EXTENTS OF DEMOLITION

DEMOLITION LEGEND

ADD03

- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE
- EXISTING TO BE DEMOLISHED
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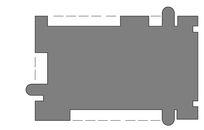
WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



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Revisions
ADD03 5/19/22

75-21204-00

THIRD FLOOR DEMOLITION PLAN

AD1.3

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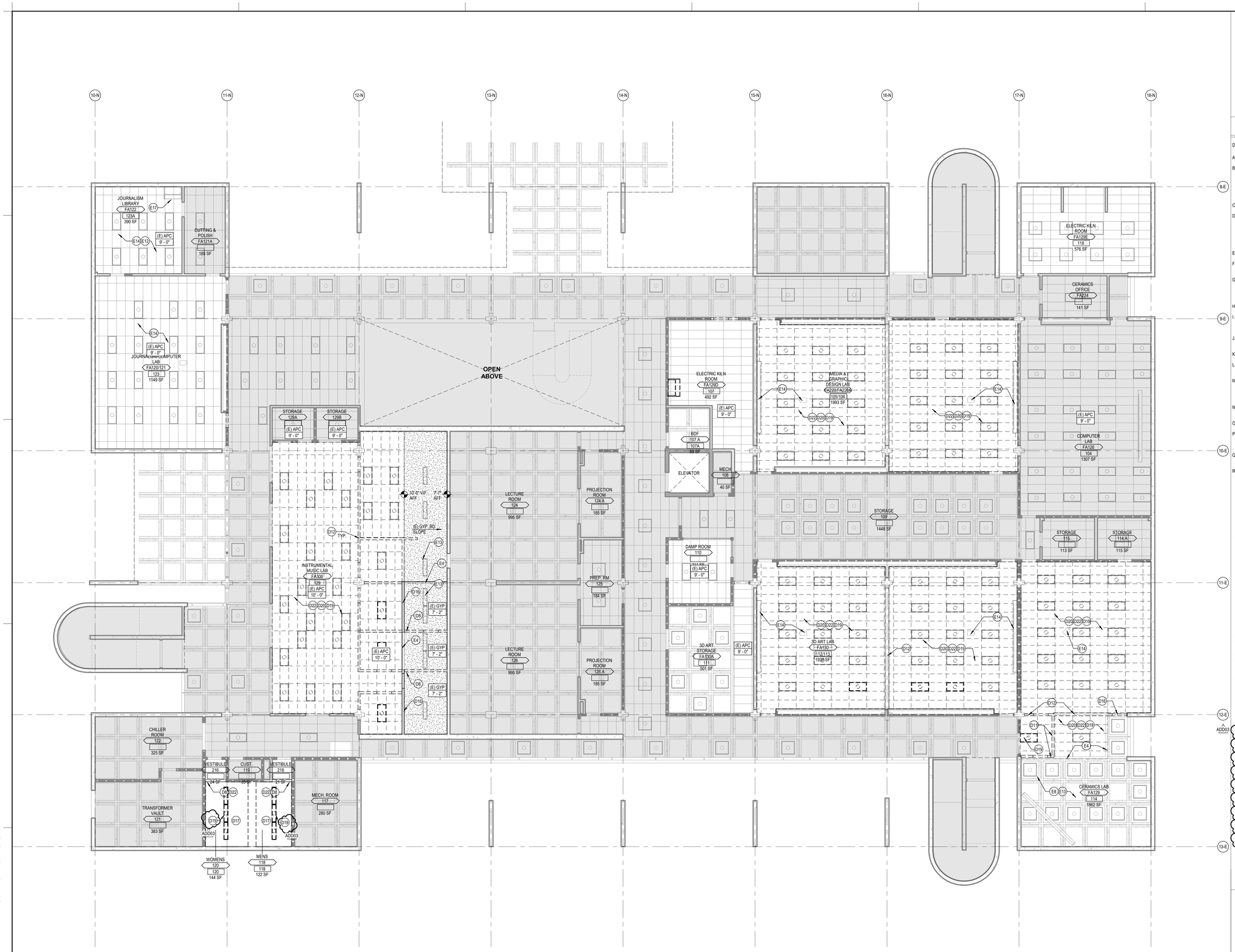

FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN

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

SCALE: 1/8" = 1'=0"

DEMOLITION GENERAL NOTES

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THE CONTRACTOR SHALL:

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E. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL TIMES.
F. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
G. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, MARKERBOARDS, AND OTHER ITEMS, AS REQUIRED TO EXECUTE THE DEMOLITION/CONSTRUCTION WORK DESCRIBED BY THE DRAWINGS.
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REFERENCE KEYNOTES

Key Value	Keynote Text
D8	DEMO (E) WALL TO CEILING HEIGHT TO ALIGN WITH ADJACENT CEILING.
D11	DEMO (E) TEMP. PARTIAL HEIGHT PARTITION WALL AND DOOR
D12	DEMO FULL HEIGHT OF (E) NON-BEARING WALL
D16	DEMO (E) WALL TO CEILING HEIGHT TO PROVIDE SOFFIT. REFER TO DETAIL 13/A10.1
D17	DEMO (E) INTERIOR RESTROOM PLASTER CEILING - APPLY TO ALL RESTROOMS THREE LEVELS
D19	REMOVE (E) CEILING LIGHTING FIXTURES
D20	DEMO (E) 24" X 48" CEILING TILES
D22	(E) CEILING/ WALL MOUNTED DIFFUSERS/EXHAUSTS REMOVED AND RECORDED. GRILLS TO BE STORED AND LOCATIONS TO REMAIN FOR USE AT INSTALLATION OF (N) CEILING.
E4	(E) GYP. BD CEILING SOFFIT TO REMAIN.
E8	PROTECT IN PLACE (E) EXPOSED STRUCTURE/ BEAMS.
E12	(E) SPRINKLER HEADS, SYSTEM TO REMAIN
E13	(E) LIGHTING TO REMAIN, PROTECT IN PLACE.
E14	(E) CEILING, EQUIPMENT, AND ACCESSORIES TO BE PROTECTED IN PLACE AND REMAIN
E17	(E) FUME EXHAUST HOOD TO REMAIN

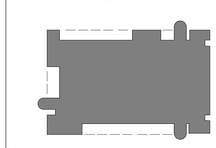
DEMO REFLECTED CEILING PLAN LEGEND

- (E) LIGHT FIXTURES TO REMAIN
- (E) 24"X48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TO REMAIN
- (E) 24"X48" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM TO DEMOLISH
- (E) PLASTER/GYP BOARD CEILING TO REMAIN
- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



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LICENSED ARCHITECT
ANN M. KNUDSEN
C-27459
8/30/2023
STATE OF CALIFORNIA

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Cypress College Swing Space

9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL

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Revisions
AD003 5/19/22

75-21204-00

FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN

AD3.1

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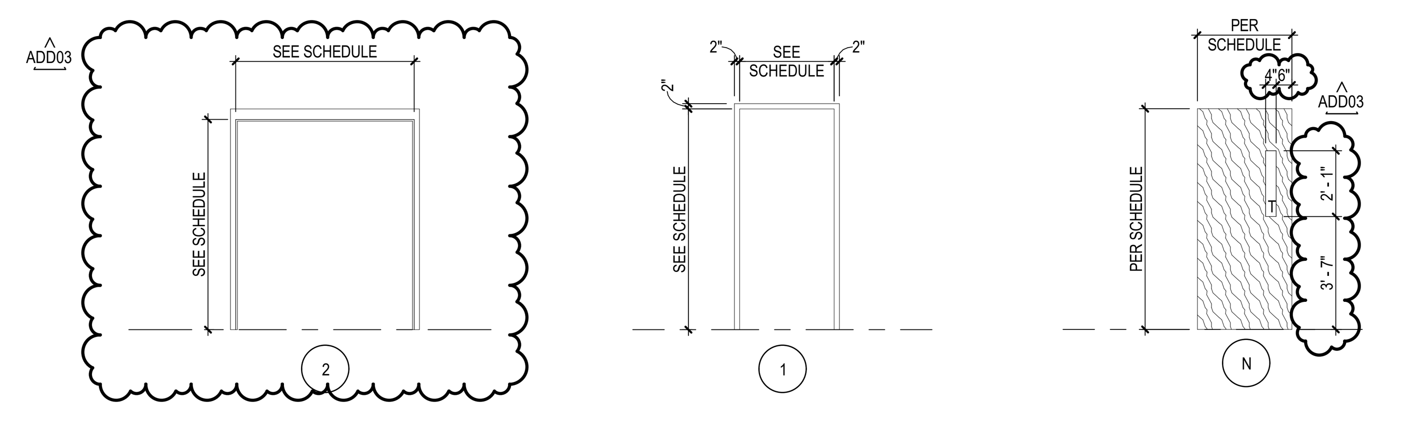


(N) FRAME ELEVATION

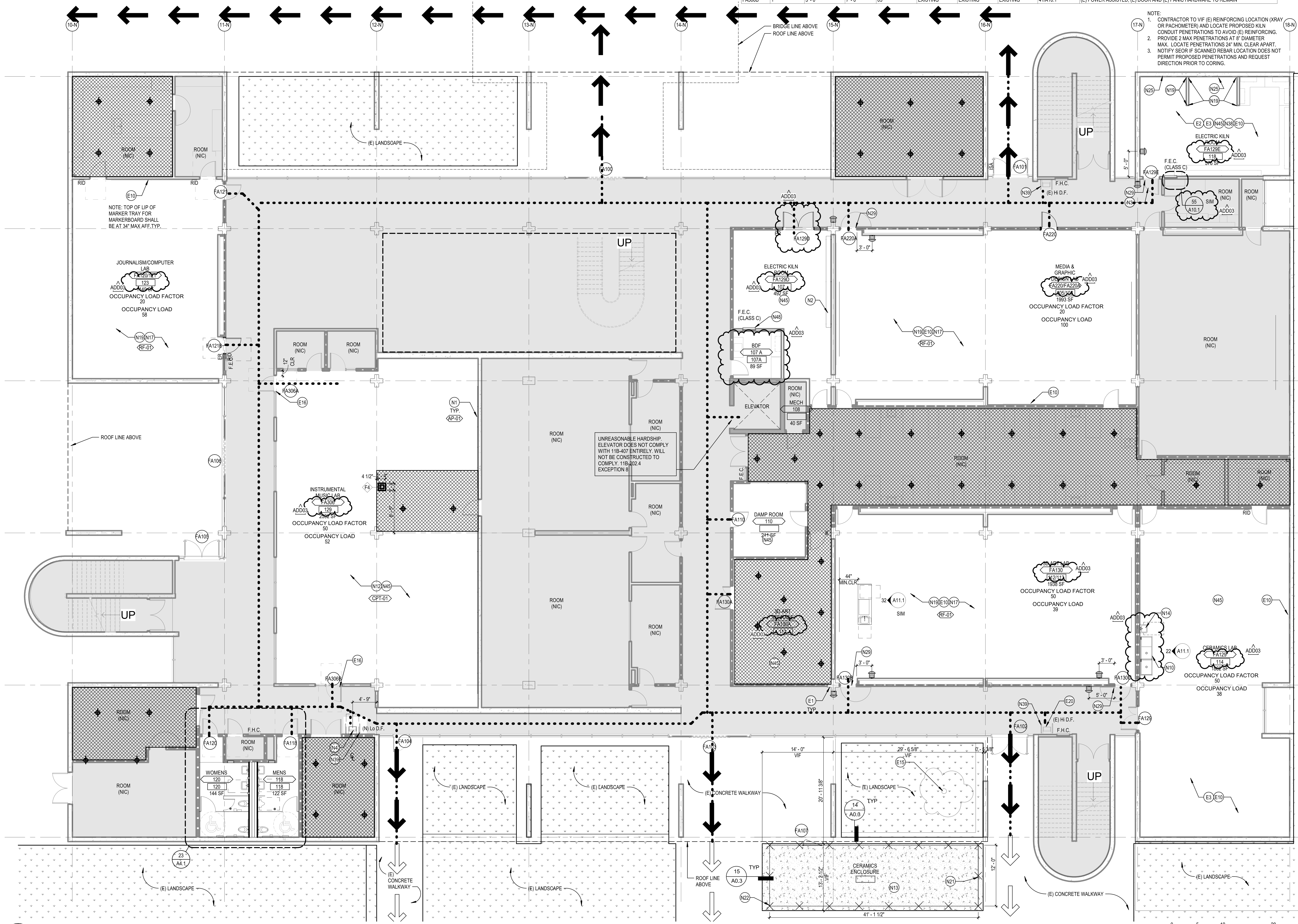
(N) DOOR PANEL

DOOR AND FRAME SCHEDULE Level 1

WT	PANEL: NO. OF PANELS	PANEL: WIDTH	PANEL: HEIGHT	HARDWARE SET	DETAILS: HEAD	DETAILS: JAMB LEFT	DETAILS: JAMB RIGHT	DETAILS: SILL	COMMENTS
FA100	2	4' - 0"	9' - 2 1/4"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, WITH BREAKAWAY, DUAL SLIDING DOORS TO REMAIN
FA101	2	3' - 5"	6' - 9"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, (E) DOOR AND (E) PANIC HARDWARE TO REMAIN
FA102	2	3' - 6"	6' - 9"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, (E) DOOR AND (E) PANIC HARDWARE TO REMAIN
FA103	2	4' - 0"	9' - 2 1/4"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, WITH BREAKAWAY, DUAL SLIDING DOORS TO REMAIN
FA104	1	3' - 0"	6' - 9"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, (E) DOOR AND (E) PANIC HARDWARE TO REMAIN
FA105	2	3' - 5"	6' - 9"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, (E) DOOR AND (E) PANIC HARDWARE TO REMAIN
FA106	2	4' - 0"	9' - 2 1/4"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) POWER ASSISTED, WITH BREAKAWAY, DUAL SLIDING DOORS TO REMAIN
FA107				G01					CHAINLINK GATE, REFER TO SHEET A0.3
FA110	1	3' - 0"	7' - 0"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	(E) DOOR AND HARDWARE TO REMAIN
FA118	1	3' - 0"	7' - 0"	03	EXISTING	EXISTING	EXISTING	EXISTING	(E) DOOR TO REMAIN
FA120	1	3' - 0"	7' - 0"	03	EXISTING	EXISTING	EXISTING	EXISTING	(E) DOOR TO REMAIN
FA121	1	3' - 0"	7' - 0"	02	EXISTING	EXISTING	EXISTING	31/A10.1	(E) PANEL AND LOCATION TO REMAIN, (N) HARDWARE
FA121B	1	3' - 0"	7' - 0"	02	1/A10.1	12/A10.1	12/A10.1	21/A10.1	(N) DOOR WITH PANIC HARDWARE,45MIN FIRE RATED
FA129	2	3' - 0"(1' - 6")	7' - 0"	01	EXISTING	EXISTING	EXISTING	EXISTING	(E) DOOR AND FRAME TO REMAIN, (N) HARDWARE
FA129D	2	3' - 0"	7' - 0"	07	11/A10.1	12/A10.1	12/A10.1	31/A10.1	(N) WD DOOR, HM FRAME AND HARDWARE WITH PANIC HARDWARE,45MIN FIRE RATED
FA129E	1	3' - 0"	7' - 0"	05A	EXISTING	EXISTING	EXISTING	EXISTING	(N) AUTOMATIC DOOR OPERATOR, (E) PANEL AND LOCATION TO REMAIN, (N) HARDWARE
FA130A	2	3' - 0"(1' - 6")	7' - 0"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	ADD03 (E) DOOR AND HARDWARE TO REMAIN
FA130B	1	3' - 0"	7' - 0"	04A	EXISTING	EXISTING	EXISTING	31/A10.1	(N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (N) HARDWARE
FA130C	1	3' - 0"	7' - 0"	04A	EXISTING	EXISTING	EXISTING	31/A10.1	(N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (N) HARDWARE
FA220	1	3' - 0"	7' - 0"	02	11/A10.1	12/A10.1	12/A10.1	31/A10.1	(N) WD DOOR, HM FRAME AND HARDWARE WITH PANIC HARDWARE,45MIN FIRE RATED
FA220A	1	3' - 0"	7' - 0"	02A	EXISTING	EXISTING	EXISTING	31/A10.1	(N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (N) HARDWARE WITH PANIC
FA306A	1	3' - 0"	7' - 0"	03	EXISTING	EXISTING	EXISTING	41/A10.1	ADD03 (E) POWER ASSISTED, (E) DOOR AND (E) PANIC HARDWARE TO REMAIN
FA306B	1	3' - 0"	7' - 0"	03	EXISTING	EXISTING	EXISTING	41/A10.1	(E) POWER ASSISTED, (E) DOOR AND (E) PANIC HARDWARE TO REMAIN

ADD03

NOTE:
1. CONTRACTOR TO VIF (E) REINFORCING LOCATION (XRAY OR PACHOMETER) AND LOCATE PROPOSED KILN CONDUIT PENETRATIONS TO AVOID (E) REINFORCING.
2. PROVIDE 2 MAX PENETRATIONS AT 8" DIAMETER MAX. LOCATE PENETRATIONS 24" MIN. CLEAR APART.
3. NOTIFY SEOR IF SCANNED REBAR LOCATION DOES NOT PERMIT PROPOSED PENETRATIONS AND REQUEST DIRECTION PRIOR TO CORING.



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'=0"

LEGEND NOTES

NOT ALL LEGEND NOTES SHOWN HERE APPLY TO DRAWINGS ON THIS SHEET

GENERAL NOTES - FLOOR PLANS

1. DOORS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
2. WALLS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
3. FURNISH AND INSTALL METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
4. "MBD" AND "TBD" INDICATE MARKER BOARDS AND TACK BOARDS ON PLANS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
5. PATCH, REPAIR AND INFILL EXISTING CONCRETE FLOOR SLAB AT ALL LOCATIONS WHERE IDENTIFIED BY THESE DRAWINGS.
6. PATCH AND REPAIR ALL EXISTING CRACKS, CHIPS, MISCELLANEOUS HOLES AND OVERALL GENERAL DAMAGE AT ALL EXISTING WALLS WHERE EXISTING FURNITURE, CASEWORK, EQUIPMENT HAVE BEEN DEMOLISHED.
7. PATCH AND REPAIR EXISTING EXTERIOR AND INTERIOR WALLS WHERE NEW ELECTRICAL CONDUITS AND J-BOXES ARE INSTALLED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT WALL SURFACE.
8. ALL INTERIOR WALL DIMENSIONS AT CONCRETE WALLS AND MASONRY WALLS ARE TAKEN FROM FACE OF WALL U.N.O.
9. PATCH AND REPAIR ALL EXCAVATIONS / DEMO ASSOCIATED WITH NEW AND MODIFIED UNDERGROUND UTILITY INSTALLATION, U.N.O.
10. WHERE FLOOR FINISH HAS BEEN REMOVED, PREP FLOORS FOR A SMOOTH FLOOR FINISH. FILL ALL CRACKS AND DIVOTS, GRIND ALL HIGH SPOTS.
11. ALL (E) CEILINGS, CEILING FIXTURES AND EQUIPMENT TO REMAIN UNLESSS INDICATED OTHERWISE.

REFERENCE KEYNOTES

Key Value	Keynote Text
E1	MAINTAIN (E) COLUMNS
E2	PROTECT IN PLACE (E) CASEWORK TO REMAIN, U.N.O.
E3	(E) CEILING/SURFACE MOUNTED AV EQUIPMENT TO REMAIN, PROTRUSION AND LOCATIONS SHALL BE PER 25/G0.3 TYP.
E10	PROTECT IN PLACE (E) WALL MOUNTED ACCESSORIES; MARKER BOARDS, WALL CLOCKS, POSTER CABINETS, TYP. ALL PROTRUSION OF ACCESSORIES SHALL BE 4" MAX FROM WALL UNLESS MOUNTED LESS THAN 27" MAX AFF.TYP.
E15	VERIFY LOCATION OF (E) PALM TREE TO BE PROTECTED AND REMAIN DURING CONSTRUCTION
E16	(E) DOOR WITH COMPLIANT PANIC HARDWARE
E20	(E) HIGH DRINKING FOUNTAIN, SEE DETAIL 21/G0.3
N1	(N) DIRECTLY APPLIED ACOUSTIC WALL PANEL. REFER TO 51/A10.1 TO BE CFCI.
N2	(N) PROVIDE STORAGE SHELVING, BOTTOM OF SHELF TO BE 27" MAX AFF FOR PROTRUSION OF 4" AND ABOVE FROM THE SURFACE OF WALL .BACKING PER 35/A10.1
N3	(N) COMPLIANT DOOR HARDWARE, INCLUDING CLOSER, KICKPLATE, ETC, REFER TO DOOR SCHEDULE (E) DOOR PANEL TO REMAIN (ADD03)
N4	(N) ACCESSIBLE DRINKING FOUNTAIN (E) WALL PATCH AND REPAIR AS REQ'D FOR INSTALLATION REF 21/G0.3 FOR MOUNTING AND CLEARANCE (ADD03)
N10	(N) DUAL DEEP SINKS.
N12	(N) SHORT TERM CARPET FLOOR FINISH
N13	(N) CONCRETE PAD FOR CERAMICS ENCLOSURE, REFER TO DETAIL 14/A0.3
N14	(N) ACCESSIBLE LAVATORY
N17	(N) INTERIOR RESILIENT FLOOR TILE FINISH
N19	(N) PAINT ENTIRETY OF INTERIOR WALLS
N21	(N) CHAINLINK FENCE ENCLOSURE, REFER TO DETAIL 53/A0.3
N22	(N) CHAINLINK SINGLE GATE, REFER TO DETAIL 55/A0.3
N25	(N) CORE OPENING FOR ELECTRIC KILN CONDUIT, REFER TO NOTES ABOVE. (ADD03)
N29	(N) AUTOMATIC DOOR OPERATOR ON (E) DOOR, REFER TO ELECTRICAL DWGS
N38	PATCH AND REPAIR FLOOR AS REQUIRED WHERE CASEWORK WAS DEMOLISHED. GRIND SMOOTH TO MATCH ADJACENT.
N39	(N) DRINKING FOUNTAIN GRAB BARS PER DETAIL 21/G0.3
N45	PATCH AND REPAIR WALL AS REQUIRED WHERE CASEWORK WAS DEMOLISHED.
N48	(N) SEMI-RECESSED FIRE EXTINGUISHER CABINET REFER TO DETAIL 55/A10.1

FLOOR PLAN LEGEND

- EXISTING DOOR AND DOOR FRAME ASSEMBLY TO REMAIN UNLESS NOTED OTHERWISE.
- FEC — (E) RECESSED FIRE EXTINGUISHER CABINET TO REMAIN UNLESS OTHERWISE NOTED.
- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE
- EXISTING ELEMENTS TO REMAIN
- XXX — DRINKING FOUNTAIN: (E) Hi D.F. EXISTING Hi DRINKING FOUNTAIN; (N) Lo D.F. NEW Lo DRINKING FOUNTAIN
- ACCESSIBLE PATH OF TRAVEL
- (E) PATH OF TRAVEL
- VERIFIED PATH OF TRAVEL
- (E) FIRE SPRINKLERED AREA
- (E) FIRE SPRINKLER HEADS
- LCN 8310-836TW PUSH PLATE BOTTOM ELEVATION AT 4" FF
- (N) CHAINLINK FENCE (ADD03)
- RF-01 — FINISH KEYNOTE SEE FINISH SCHEDULE ON A10.0

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN

N →

LICENSED ARCHITECT ANN M. KNUDSEN C-27459 9/30/2023 STATE OF CALIFORNIA

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Cypress College

DSA APPROVAL

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Revisions
ADD02 4/29/22
ADD03 5/19/22

75-21204-00

FIRST FLOOR PLAN

A1.1

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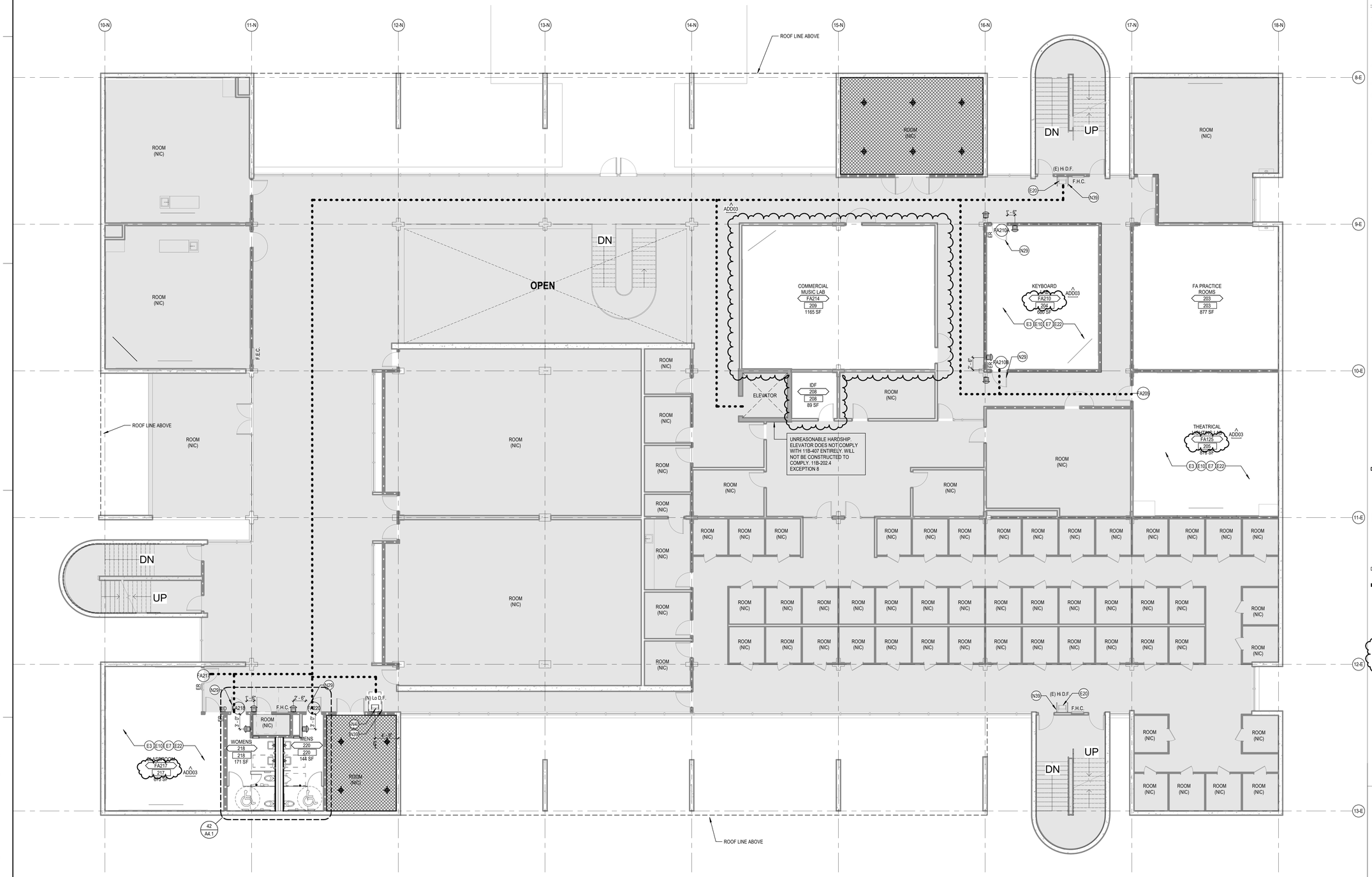
DOOR AND FRAME SCHEDULE Level 2

Level	Number	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	HARDWARE SET	COMMENTS
Level 02	FA205	1	3' - 0"	7' - 0"	(E) TO REMAIN	2ND LEVEL (E) DOOR AND (E) HARDWARE TO REMAIN
Level 02	FA210A	1	3' - 0"	7' - 0"	03A	2ND LEVEL (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 02	FA210B	1	3' - 0"	7' - 0"	03A	2ND LEVEL (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 02	FA217	1	3' - 0"	7' - 0"	(E) TO REMAIN	2ND LEVEL
Level 02	FA218	1	3' - 0"	7' - 0"	03A	2ND LEVEL (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 02	FA220	1	3' - 0"	7' - 0"	03A	2ND LEVEL (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN

ADD03



SECOND FLOOR PLAN

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

0 5 10 20
SCALE: 1/8" = 1'-0"

LEGEND NOTES

NOT ALL LEGEND NOTES SHOWN HERE APPLY TO DRAWINGS ON THIS SHEET

GENERAL NOTES - FLOOR PLANS

1. DOORS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
2. WALLS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
3. FURNISH AND INSTALL METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
4. "MBO" AND "TBD" INDICATE MARKER BOARDS AND TACK BOARDS ON PLANS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
5. PATCH, REPAIR AND INFILL EXISTING CONCRETE FLOOR SLAB AT ALL LOCATIONS WHERE IDENTIFIED BY THESE DRAWINGS.
6. PATCH AND REPAIR ALL EXISTING CRACKS, CHIPS, MISCELLANEOUS HOLES AND OVERALL GENERAL DAMAGE AT ALL EXISTING WALLS WHERE EXISTING FURNITURE, CASEWORK, EQUIPMENT HAVE BEEN DEMOLISHED.
7. PATCH AND REPAIR EXISTING EXTERIOR AND INTERIOR WALLS WHERE NEW ELECTRICAL CONDUITS AND J-BOXES ARE INSTALLED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT WALL SURFACE.
8. ALL INTERIOR WALL DIMENSIONS AT CONCRETE WALLS AND MASONRY WALLS ARE TAKEN FROM FACE OF WALL U.N.O.
9. PATCH AND REPAIR ALL EXCAVATIONS / DEMO ASSOCIATED WITH NEW AND MODIFIED UNDERGROUND UTILITY INSTALLATION, U.N.O.
10. WHERE FLOOR FINISH HAS BEEN REMOVED, PREP FLOORS FOR A SMOOTH FLOOR FINISH. FILL ALL CRACKS AND DIVOTS, GRIND ALL HIGH SPOTS.
11. ALL (E) CEILINGS, CEILING FIXTURES AND EQUIPMENT TO REMAIN UNLESSS INDICATED OTHERWISE.

REFERENCE KEYNOTES

Key Value	Keynote Text
E3	(E) CEILING/SURFACE MOUNTED AV EQUIPMENT TO REMAIN, PROTRUSION AND LOCATIONS SHALL BE PER 25/G0.3 TYP.
E7	(E) DOOR AND FRAME TO REMAIN
E10	PROTECT IN PLACE (E) WALL MOUNTED ACCESSORIES; MARKER BOARDS, WALL CLOCKS, POSTER CABINETS, TYP. ALL PROTRUSION OF ACCESSORIES SHALL BE 4" MAX FROM WALL UNLESS MOUNTED LESS THAN 27" MAX AFF.TYP.
E20	(E) HIGH DRINKING FOUNTAIN, SEE DETAIL 21/G0.3
E22	(E) WALL FINISHES TO REMAIN, PROTECT IN PLACE
N4	(N) ACCESSIBLE DRINKING FOUNTAIN (E) WALL PATCH AND REPAIR AS REQ'D FOR INSTALLATION REF 21/G0.3 FOR MOUNTING AND CLEARANCE
N29	(N) AUTOMATIC DOOR OPERATOR ON (E) DOOR, REFER TO ELECTRICAL DWGS
N39	(N) DRINKING FOUNTAIN GRAB BARS PER DETAIL 21/G0.3

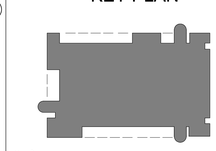
FLOOR PLAN LEGEND

- EXISTING DOOR AND DOOR FRAME ASSEMBLY TO REMAIN UNLESS NOTED OTHERWISE.
- FEC — (E) RECESSED FIRE EXTINGUISHER CABINET TO REMAIN UNLESS OTHERWISE NOTED.
- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE
- EXISTING ELEMENTS TO REMAIN
- XXX — DRINKING FOUNTAIN
- (E) Hi D.F. — EXISTING Hi DRINKING FOUNTAIN
- (N) Lo D.F. — NEW Lo DRINKING FOUNTAIN
- ACCESSIBLE PATH OF TRAVEL
- (E) PATH OF TRAVEL
- VERIFIED PATH OF TRAVEL
- (E) FIRE SPRINKLERED AREA
- (E) FIRE SPRINKLER HEADS
- LCN 8310-836TW PUSH PLATE BOTTOM ELEVATION AT 4" FF.
- (N) CHAINLINK FENCE — ADD03
- RF-01 — FINISH KEYNOTE SEE FINISH SCHEDULE ON A10.0

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



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ANN M. KNUDSEN
C-27459
9/30/2023
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Revisions
ADD02 4/29/22
ADD03 5/19/22

75-21204-00

SECOND FLOOR PLAN

A1.2

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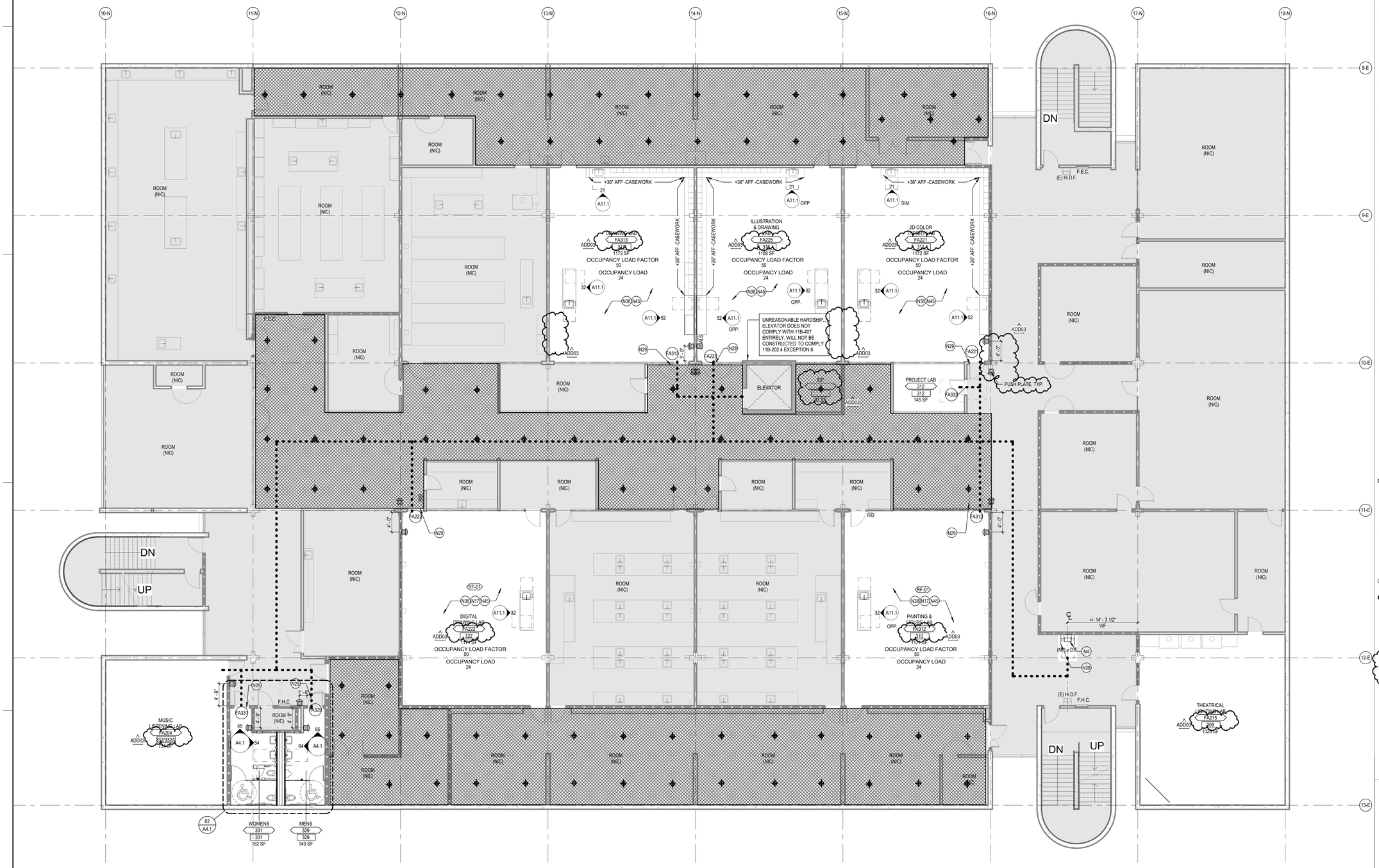
DOOR AND FRAME SCHEDULE Level 3

Level	DOOR NUMBER	PANEL NO. OF PANELS	PANEL WIDTH	PANEL HEIGHT	HARDWARE SET	DETAILS HEAD	DETAILS JAMB LEFT	DETAILS JAMB RIGHT	DETAILS SILL	COMMENTS
Level 03	FA221	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	EXISTING	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA222	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	31/A10.1	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA225	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	EXISTING	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA312	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	31/A10.1	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA313	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	EXISTING	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA209	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	EXISTING	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA331	1	3' - 0"	7' - 0"	03A	EXISTING	EXISTING	EXISTING	EXISTING	3RD LEVEL, (N) AUTOMATIC DOOR OPERATOR, (E) DOOR AND (E) HARDWARE TO REMAIN
Level 03	FA332	1	3' - 0"	7' - 0"	(E) TO REMAIN	EXISTING	EXISTING	EXISTING	EXISTING	3RD LEVEL, (E) DOOR AND HARDWARE TO REMAIN



THIRD FLOOR PLAN

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

LEGEND NOTES

NOT ALL LEGEND NOTES SHOWN HERE APPLY TO DRAWINGS ON THIS SHEET

GENERAL NOTES - FLOOR PLANS

1. DOORS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
2. WALLS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
3. FURNISH AND INSTALL METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS. I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.
4. "MBO" AND "TBD" INDICATE MARKER BOARDS AND TACK BOARDS ON PLANS TO REMAIN AS EXISTING UNLESS OTHERWISE NOTED.
5. PATCH, REPAIR AND INFILL EXISTING CONCRETE FLOOR SLAB AT ALL LOCATIONS WHERE IDENTIFIED BY THESE DRAWINGS.
6. PATCH AND REPAIR ALL EXISTING CRACKS, CHIPS, MISCELLANEOUS HOLES AND OVERALL GENERAL DAMAGE AT ALL EXISTING WALLS WHERE EXISTING FURNITURE, CASEWORK, EQUIPMENT HAVE BEEN DEMOLISHED.
7. PATCH AND REPAIR EXISTING EXTERIOR AND INTERIOR WALLS WHERE NEW ELECTRICAL CONDUITS AND J-BOXES ARE INSTALLED. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS. PAINT TO MATCH ADJACENT WALL SURFACE.
8. ALL INTERIOR WALL DIMENSIONS AT CONCRETE WALLS AND MASONRY WALLS ARE TAKEN FROM FACE OF WALL U.N.O.
9. PATCH AND REPAIR ALL EXCAVATIONS / DEMO ASSOCIATED WITH NEW AND MODIFIED UNDERGROUND UTILITY INSTALLATION, U.N.O.
10. WHERE FLOOR FINISH HAS BEEN REMOVED, PREP FLOORS FOR A SMOOTH FLOOR FINISH. FILL ALL CRACKS AND DIVOTS, GRIND ALL HIGH SPOTS.
11. ALL (E) CEILINGS, CEILING FIXTURES AND EQUIPMENT TO REMAIN UNLESSS INDICATED OTHERWISE.

REFERENCE KEYNOTES

Key Value	Keynote Text
N4	(N) ACCESSIBLE DRINKING FOUNTAIN (E) WALL PATCH AND REPAIR AS REQ'D FOR INSTALLATION REF 21/G0.3 FOR MOUNTING AND CLEARANCE
N17	(N) INTERIOR RESILIENT FLOOR TILE FINISH
N29	(N) AUTOMATIC DOOR OPERATOR ON (E) DOOR, REFER TO ELECTRICAL DWGS
N38	PATCH AND REPAIR FLOOR AS REQUIRED WHERE CASEWORK WAS DEMOLISHED. GRIND SMOOTH TO MATCH ADJACENT.
N39	(N) DRINKING FOUNTAIN GRAB BARS PER DETAIL 21/G0.3
N45	PATCH AND REPAIR WALL AS REQUIRED WHERE CASEWORK WAS DEMOLISHED.

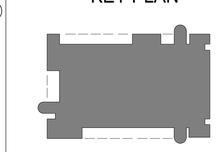
FLOOR PLAN LEGEND

- EXISTING DOOR AND DOOR FRAME ASSEMBLY TO REMAIN UNLESS NOTED OTHERWISE.
- FEC — (E) RECESSED FIRE EXTINGUISHER CABINET TO REMAIN UNLESS OTHERWISE NOTED.
- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE
- EXISTING ELEMENTS TO REMAIN
- XXX — DRINKING FOUNTAIN
- (E) Hi D.F. — EXISTING Hi DRINKING FOUNTAIN
- (N) Lo D.F. — NEW Lo DRINKING FOUNTAIN
- ACCESSIBLE PATH OF TRAVEL
- (E) PATH OF TRAVEL
- VERIFIED PATH OF TRAVEL
- (E) FIRE SPRINKLERED AREA
- (E) FIRE SPRINKLER HEADS
- LCN 8310-836TW PUSH PLATE BOTTOM ELEVATION AT 4" FF
- (N) CHAINLINK FENCE
- RF-01 — FINISH KEYNOTE SEE FINISH SCHEDULE ON A10.0

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



LICENSED ARCHITECT ANN K. KNUDSEN C-27459 9/30/2023 STATE OF CALIFORNIA

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Revisions
ADD02 4/29/22
ADD03 5/19/22

75-21204-00

THIRD FLOOR PLAN

A1.3

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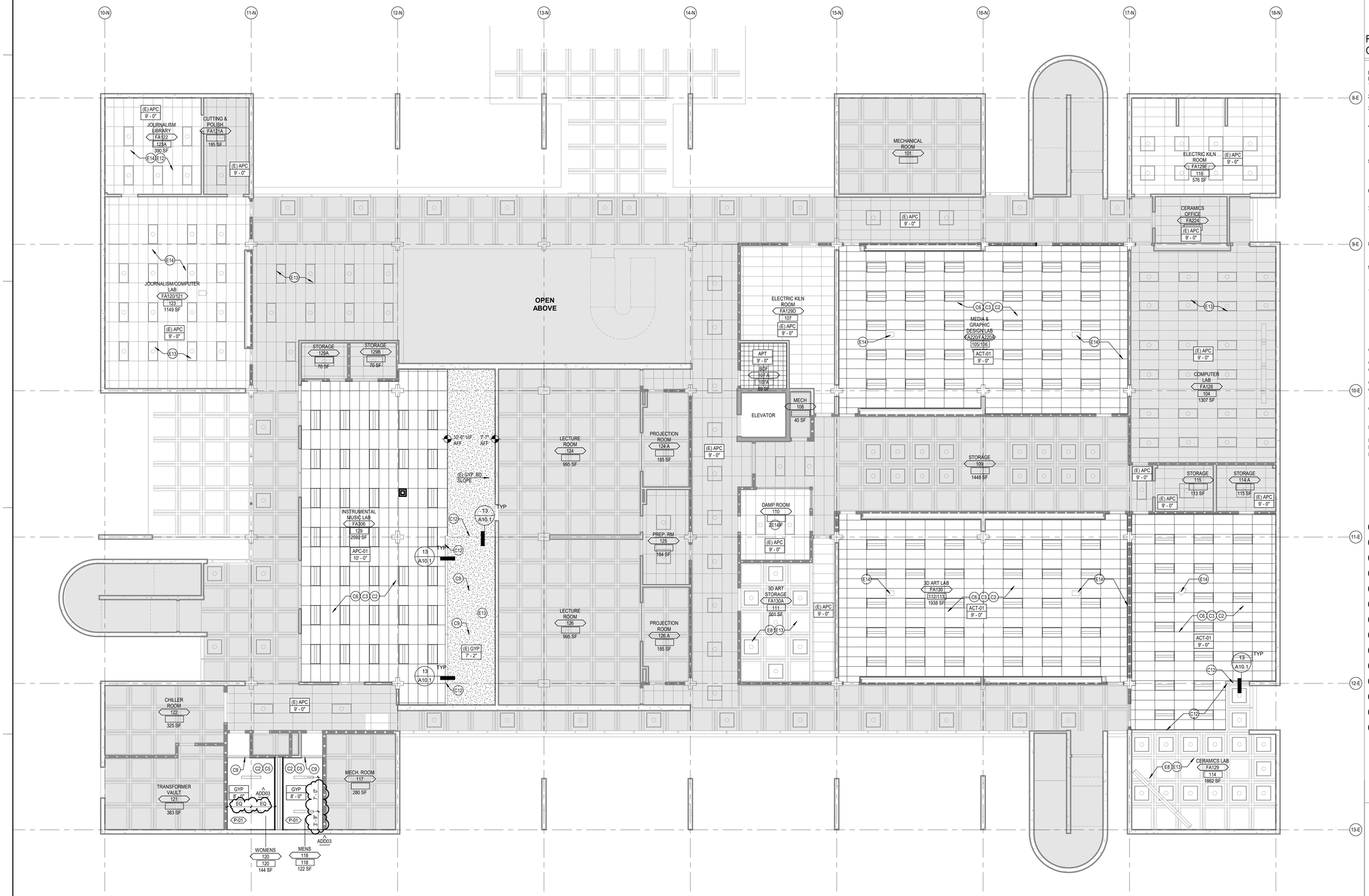


FIRST FLOOR REFLECTED CEILING PLAN

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

0 5 10 20
SCALE: 1/8" = 1'-0"

LEGEND NOTES

NOT ALL LEGEND NOTES SHOWN HERE APPLY TO DRAWINGS ON THIS SHEET

LICENSED ARCHITECT
ANN M. KNUDSEN
C-27459
9/30/2023
STATE OF CALIFORNIA

REFLECTED CEILING PLAN GENERAL NOTES

REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.

1. CEILINGS AND ACCESSORIES ARE EXISTING TO REMAIN UNLESS NOTE OTHERWISE, REFER TO DEMOLITION SHEETS
2. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
3. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.
4. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
5. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
6. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.
7. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
8. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
9. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.
10. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS SHOWN ON THE DRAWINGS.

REFERENCE KEYNOTES

Key Value	Keynote Text
C2	(E) CEILING/ WALL MOUNTED DIFFUSERS/EXHAUST GRILLS TO BE PLACED IN EXISTING LOCATIONS.
C3	(N) CEILING LIGHTING FIXTURES
C5	ADD03 (N) GYPSUM BOARD CEILING, REFER TO DETAIL 4A/A10.2
C6	(N) 24 X 48 CEILING TILES
C9	PATCH AND REPAIR CEILING WHERE WALL PARTITION WAS DEMOLISHED. FLUSH AND PAINT TO MATCH ADJACENT (E) FINISH. ADD03
C12	PATCH AND REPAIR CEILING/ SOFFIT AS REQUIRED WHERE WALL PARTITION WAS DEMOLISHED. PAINT TO MATCH ADJACENT (E) FINISH.
E8	PROTECT IN PLACE (E) EXPOSED STRUCTURE/ BEAMS.
E12	(E) SPRINKLER HEADS, SYSTEM TO REMAIN
E13	(E) LIGHTING TO REMAIN, PROTECT IN PLACE.
E14	(E) CEILING, EQUIPMENT, AND ACCESSORIES TO BE PROTECTED IN PLACE AND REMAIN

REFLECTED CEILING PLAN SYMBOL LEGEND

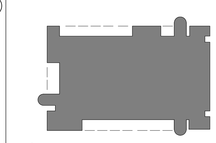
ADD03

- (E) LIGHTING FIXTURES, UNLESS NOTED OTHERWISE
- (E) GWB/PLASTER- GYP. BOARD CEILING, U.N.O.
- (E) APC- 24"X48" ACOUSTIC PANEL CEILING, U.N.O.
- (N) ACT - REFERENCE A10.0 FOR FINISH SCHEDULE AND 22/A10.2 FOR CEILING DETAILS
- EXISTING AREA/ ROOM TO REMAIN AS-IS - NOT IN SCOPE

WALL SEPARATION LEGEND

WALL HOURLY RATING
1 = (E) 1-HOUR

KEY PLAN



N →

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Revisions
ADD03 5/19/22

75-21204-00

FIRST FLOOR REFLECTED CEILING PLAN

A3.1

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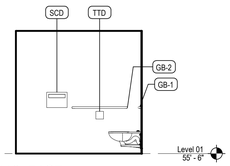
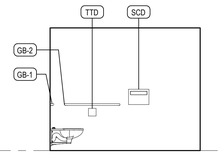
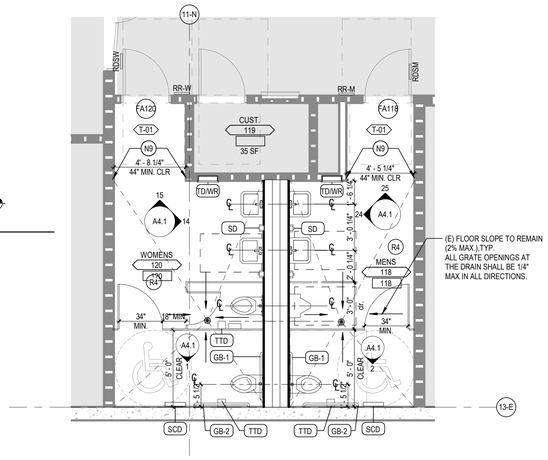


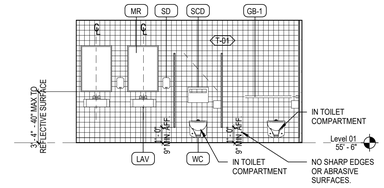
2 A4.1 ELEVATION 118- EAST SIMILAR FOR 220 AND 329
SCALE: 1/4" = 1'-0"



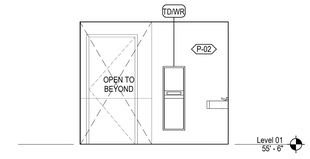
1 A4.1 ELEVATION 120- EAST SIMILAR FOR 218 AND 331
SCALE: 1/4" = 1'-0"



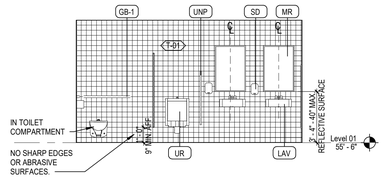
23 A4.1 ENLARGED RESTROOM PLAN - 120 AND 118
SCALE: 1/4" = 1'-0"



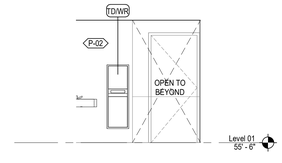
14 A4.1 ELEVATION 120 - NORTH
SCALE: 1/4" = 1'-0"



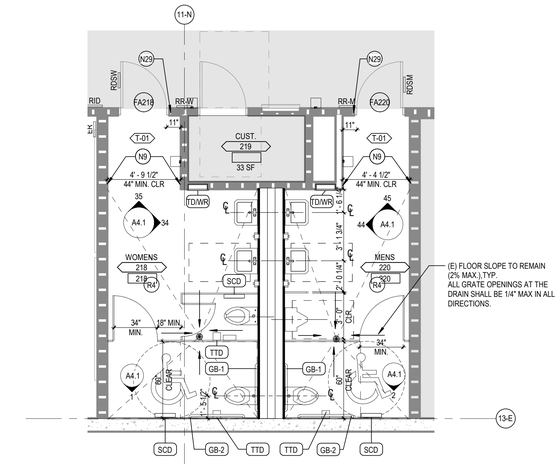
15 A4.1 ELEVATION 120 - WEST
SCALE: 1/4" = 1'-0"



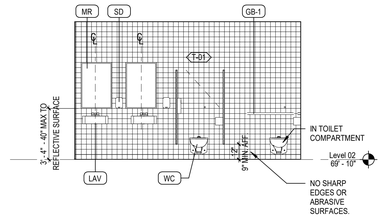
24 A4.1 ELEVATION 118 - SOUTH
SCALE: 1/4" = 1'-0"



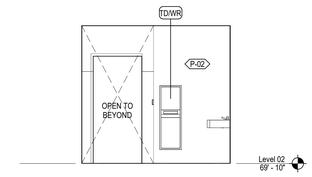
25 A4.1 ELEVATION 118 - WEST
SCALE: 1/4" = 1'-0"



42 A4.1 ENLARGED RESTROOM PLAN - 218 AND 220
SCALE: 1/4" = 1'-0"



34 A4.1 ELEVATION 218 - NORTH
SCALE: 1/4" = 1'-0"



35 A4.1 ELEVATION 218 - WEST
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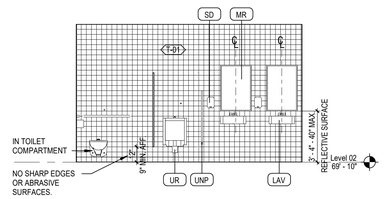

44 A4.1 ELEVATION 220 - SOUTH
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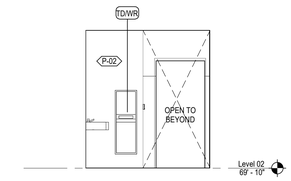
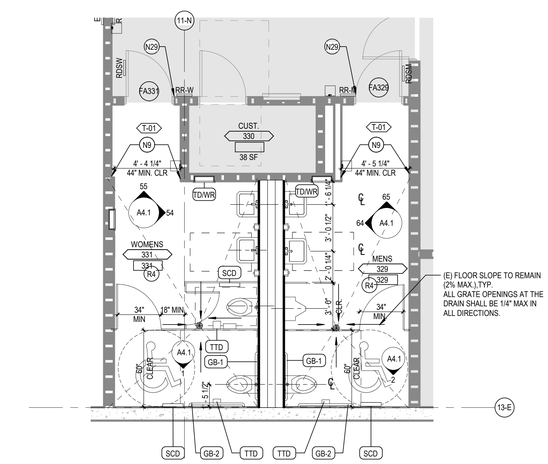
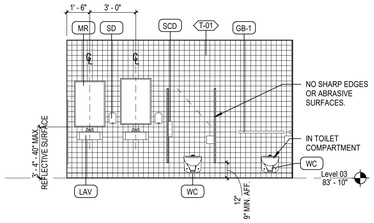


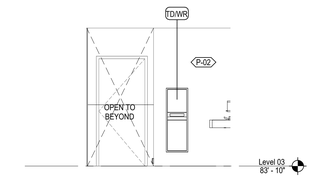
45 A4.1 ELEVATION 220 - WEST
SCALE: 1/4" = 1'-0"



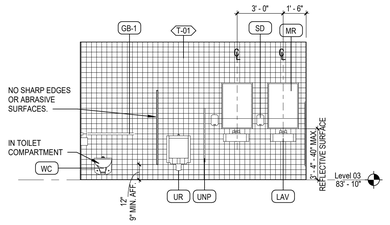
62 A4.1 ENLARGED RESTROOM PLAN - 331 AND 329
SCALE: 1/4" = 1'-0"



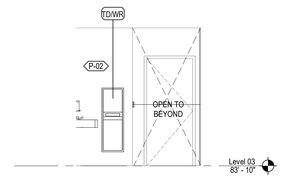
54 A4.1 ELEVATION 331 - NORTH
SCALE: 1/4" = 1'-0"



55 A4.1 ELEVATION 331 - WEST
SCALE: 1/4" = 1'-0"



64 A4.1 ELEVATION 329 - SOUTH
SCALE: 1/4" = 1'-0"



65 A4.1 ELEVATION 329 - WEST
SCALE: 1/4" = 1'-0"

LEGEND NOTES

NOT ALL LEGEND NOTES SHOWN HERE APPLY TO DRAWINGS ON THIS SHEET

GENERAL NOTES

A. ALL DIMENSIONS FOR ACCESS COMPLIANCES ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
B. AREA(S) WITH FLOOR DRAINS SHALL HAVE 2% MAX SLOPE IN ALL DIRECTIONS.
C. PROVIDE ROBE HOOKS AT TOILET PARTITION DOORS, ACCESSIBLE FROM WITHIN TOILET COMPARTMENT. 48" MAX. AFF TO TOP OF HOOK.
D. PROVIDE PIPE INSULATION UNDER ALL LAVATORIES.NO SHARP EDGES OR ABRASIVE SURFACES ALLOWED UNDER LAVATORY
E. PROVIDE 16 GAUGE METAL STUDS AT BATHROOM WALLS.
F. FLOOR SINKS OR DRAINS OR TROUGHS EXPOSED TO P.O.T. OR TO PREDESTRIAN CIRCULATION PATHS SHALL HAVE 1/2" MAX. GRATE OPENING IN ALL DIRECTIONS. (CBC SEC. 11B-302.3).
G. OPERABLE PARTS OF ALL ACCESSIBLE ELEMETS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX. (CBC SEC. 11B-205 AND 11B-309.4).
H. OPERABLE PARTS OF ALL ACCESSIBLE ELEMENTS SHALL BE PLACED WITHIN ACCESSIBLE REACH RANGES.

ADD03

GENERAL NOTES FOR ACCESSIBILITY

A. ACCESSIBLE URINAL SHALL PROVIDE CLEAR FLOOR SPACE PER CBC 2019 11B - 605.3.
B. ACCESSIBLE WATER CLOSETS SHALL PROVIDE CLEAR SPACE PER CBC 2019 11B - 604.3.1
C. ACCESSIBLE LAVATORIES AND SINKS SHALL PROVIDE CLEAR SPACE PER CBC 2019 11B - 606.2.
D. ACCESSIBLE TOILET ROOMS SHALL PROVIDE A TURNING SPACE OF 60 INCHES IN DIAMETER PER CBC 2019 11B- 304.3.1.
E. ACCESSIBLE WATER FOUNTAINS SHALL PROVIDE CLEAR FLOOR SPACE PER CBC 2019 11B - 602.2.
F. ACCESSIBLE TOILET PARTITIONS SHALL COMPLY WITH CBC 2019 11B - 604.8.1.
G. MOUNT FIXTURES AND ACCESSORIES PER ADULT MOUNTING HEIGHTS. SEE SHEET G0.3
J. ALL DOORS AT ACCESSIBLE RESTROOM COMPARTMENTS SHALL BE SELF-CLOSING

ADD03

REFERENCE KEYNOTES

Key Value	Keynote Text
N9	IN-FILL AREA WHERE DEMOLISHED (E) WALL. ALIGN AND FINISH TO MATCH ADJACENT WALL. ADD03
N29 ADD03	(N) AUTOMATIC DOOR OPERATOR ON (E) DOOR. REFER TO ELEC FOR DETAILS
R4	PATCH AND REPAIR CERAMIC TILE AREA AFFECTED BY DEMOLISHED/RELOCATED FIXTURES AND ACCESSORIES WITH NEW FINISH TO MATCH (E) ADJACENT FINISH. 6" TO 1'-0" PAST DEMOLISHED FIXTURES TO BE REPAIR TO MATCH

NOTE:
REFER TO SHEET A10.1 - TYP. INTERIOR DETAILS
SEE FINISH SCHEDULE ON A10.0 FOR FINISHES. ADD03

TOILET ACCESSORIES ABBREVIATIONS

ABBREV	DESCRIPTION
ACC	ADA ACCESSIBLE HEIGHT
FD	FLOOR DRAIN
GB-1	GRAB BAR (BACK WALL)
GB-2	GRAB BAR (SIDE WALL)
LAV	LAVATORY PER PLUMBING
MR	MIRROR (24x36)
PDT	RECESSED PAPER TOWEL DISPENSER AND TRASH
SCD	SURFACE MOUNTED SEAT COVER DISPENSER
SND	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
SDR	SOAP DISPENSER
TD/WR	TOWEL DISPENSER/ WASTE RECEPTACLE
TTD	SURFACE MOUNTED TOILET PAPER DISPENSER
UNP	URINAL PARTITION
URN	URINAL PER PLUMBING
WC	WATER CLOSET

ADD03

SEE 55/G0.3 FOR MOUNTING HEIGHTS.
SEE A14.2, A14.3, & A14.4 FOR SIGNAGE ABBREVIATIONS.
ADD03

LICENSED ARCHITECT
ANN K. KNUDSEN
C-27459
9/30/2023
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Revisions
ADD03 5/19/22

75-21204-00

ENLARGED RESTROOM PLANS AND ELEVATIONS

A4.1

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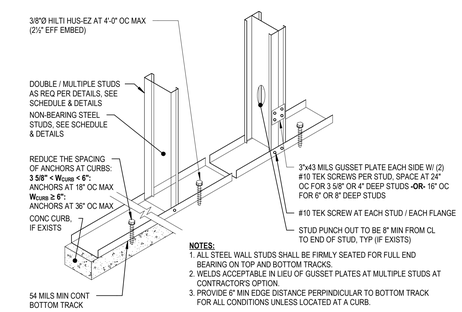
ADD03 FINISH SCHEDULE

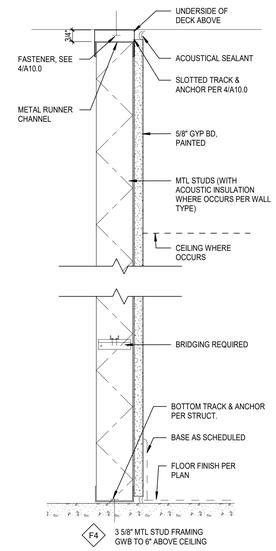
TAG	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR/FINISH	SIZE	COMMENTS
093013 TILING						
MT-01	METAL BASE TRIM	SCHLUTER	DILEX-AHK	STANDARD MANUF COLOR		
T-01	TILE	---	---	---	---	MATCH EXISTING
095113 ACOUSTIC CEILING TILE						
ACT-01	ACOUSTIC CEILING TILE	ARMSTRONG	OPTIMA	WHITE	REF A3.1	
APC-01	ACOUSTIC PANEL CEILING	ARMSTRONG	OPTIMA	WHITE	REF A3.1	
096516 RESILIENT FLOORING						
RF-01	RESILIENT FLOORING	FORBO	MARMOLEUM MODULAR	STANDARD MANUF COLOR		
096800 CARPET						
CPT-01	CARPET	---	---	---	---	MATCH EXISTING
098400 ACOUSTIC ROOM COMPONENTS						
AP-01	ACOUSTIC PANEL	DECOUSTICS		STANDARD MANUF COLOR		CHAMFERED EDGE
099000 PAINTING						
P-01	CEILING PAINT	SHERWIN WILLIAMS	LOW VOC, PREMIUM PAINT	COLOR TBD; FLAT FINISH	---	
P-02	WALL PAINT	SHERWIN WILLIAMS	LOW VOC, PREMIUM PAINT	COLOR TBD; EGGSHELL FINISH (OR SATIN)	---	
P-03	HM DOORS AND TRIM	SHERWIN WILLIAMS	LOW VOC, PREMIUM PAINT	COLOR TBD; SEMI-GLOSS FINISH	---	
104400 FIRE PROTECTION SPECIALTIES						
FEC-01	PAINTED FIRE EXTINGUISHER CABINET	LARSEN		PAINTED TO MATCH ADJACENT WALL	FULLY RECESSED - 2409-R2, SEMI RECESSED 2409-R4	
FEC-02	STAINLESS STEEL FIRE EXTINGUISHER CABINET	LARSEN		STAINLESS STEEL	FULLY RECESSED - 2409-R2, SEMI RECESSED 2409-R4	
123661 SOLID SURFACING						
SSM-01	SOLID SURFACE	CAESARSTONE	---	STANDARD MANUF COLOR	---	



NOTES:
1. ALL STEEL WALL STUDS SHALL BE FIRMLY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACKS.
2. WELDS ACCEPTABLE IN LIEU OF GUSSET PLATES AT MULTIPLE STUDS AT CONTRACTOR'S OPTION.
3. PROVIDE 6" MIN EDGE DISTANCE PERPINDICULAR TO BOTTOM TRACK FOR ALL CONDITIONS UNLESS LOCATED AT A CURB.

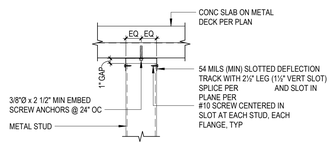
3 / A10.0 TYP. NON BEARING BOTTOM TRACK DETAIL

SCALE: 1" = 1'-0"

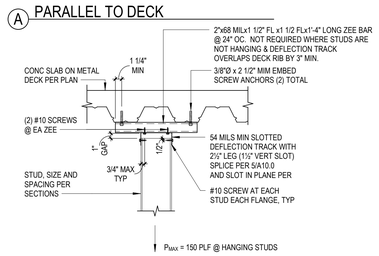


WALL TYPE - F

SCALE: 3" = 1'-0"



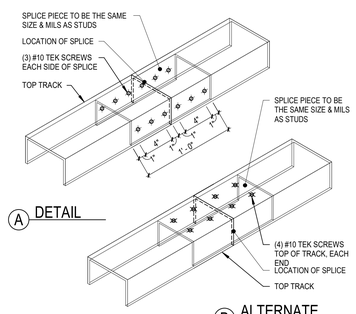
A PARALLEL TO DECK



B PERPINDICULAR TO DECK

4 / A10.0 TYP TOP TRACK DETAIL

SCALE: 1" = 1'-0"

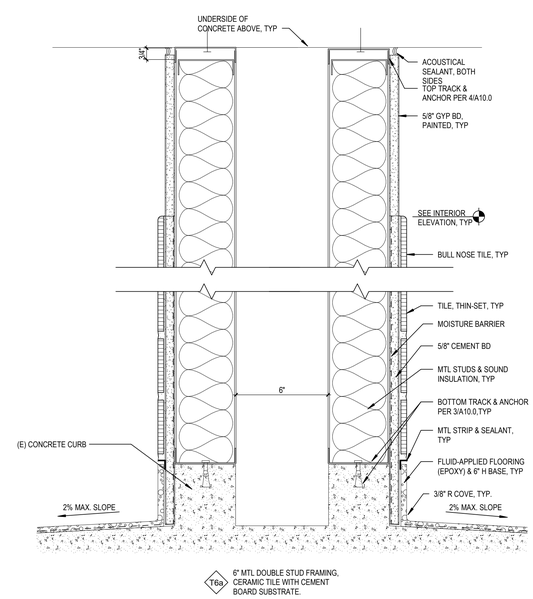


A DETAIL

B ALTERNATE

5 / A10.0 TYP TOP TRACK SPLICE DETAIL

SCALE: 1 1/2" = 1'-0"



WALL TYPE - T

SCALE: 3" = 1'-0"

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75-21204-00

WALL TYPES AND FINISH SCHEDULE

A10.0

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_AR_2020.rvt
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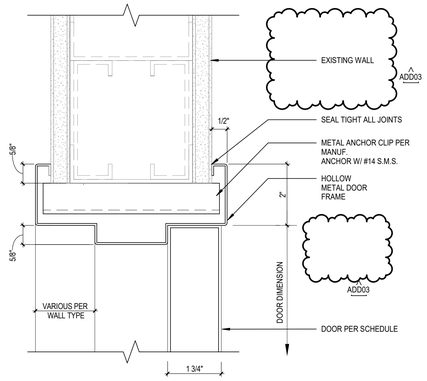
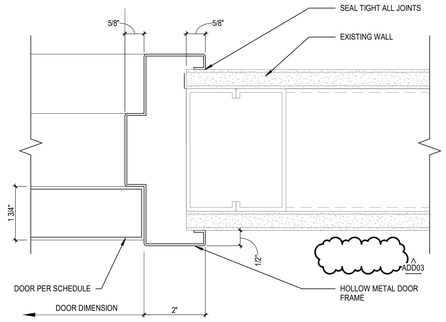
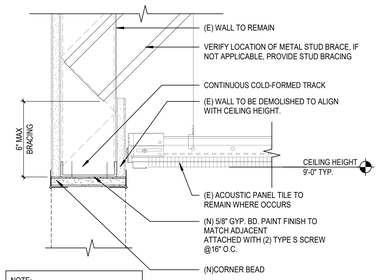


11 A10.1 HM DOOR HEAD (INT)
SCALE: 6" = 1'-0"

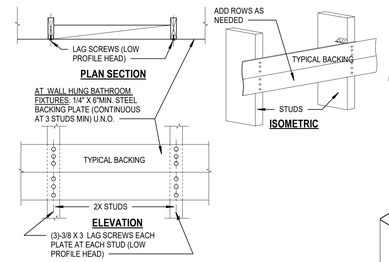


12 A10.1 HM DOOR JAMB (INT)
SCALE: 6" = 1'-0"



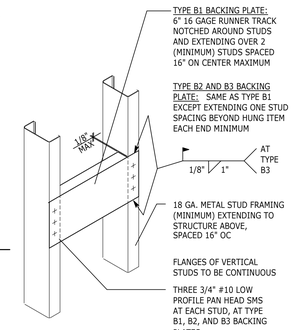
NOTE:
CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING FRAMING.

13 A10.1 DEMOLISH WALL TO SOFFIT
SCALE: 3" = 1'-0"

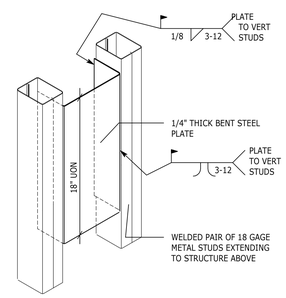


14 A10.1 WALL BACKING DIAGRAM
SCALE: 3/4" = 1'-0"

A NOT USED



B BACKING PLATE TYPES B1, B2 AND B3



C BACKING PLATE TYPE C

D NOT USED

35 A10.1 TYPICAL BACKING DETAILS
SCALE: 12" = 1'-0"

GENERAL BACKING PLATE NOTES

1. PROVIDE BACKING PLATES AS INDICATED ON THE DRAWINGS OR, WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING SCHEDULE:

TYPE D BACKING PLATE:

- NOT USED

TYPE B1 BACKING PLATE:

- AT SMALL ITEMS (SUCH AS TOILET ACCESSORIES, MIRRORS, CLOTHES HOOKS, DOOR STOPS ETC) WHICH WEIGH OR SUPPORT WEIGHTS OF LESS THAN 50 POUNDS

TYPE B2 BACKING PLATE:

- AT ALL UPPER WALL-HUNG CABINETS
- AT ALL BASE CABINETS
- AT ALL FULL HEIGHT CABINETS
- AT ALL WALL-MOUNTED HANDRAILS, GUARDRAILS, GRAB BARS, BUMPER RAILS, CRASH RAILS
- AT WALL-MOUNTED ADJUSTABLE SHELVING & KITCHEN SHELVING

TYPE B3 BACKING PLATE:

- AT WALL-MOUNTED ITEMS AS INDICATED ON ANCHORAGE DETAILS
- AT WALL-MOUNTED TOILET PARTITIONS
- WALL MOUNTED URINALS
- WALL MOUNTED WATER CLOSETS

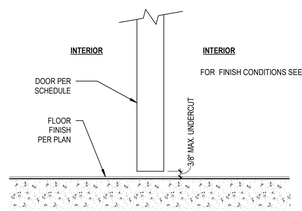
TYPE C BACKING PLATE:

- AT WALL-MOUNTED EQUIPMENT AS INDICATED ON THE DRAWINGS

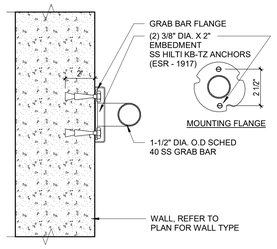
TYPE D BACKING PLATE:

- NOT USED

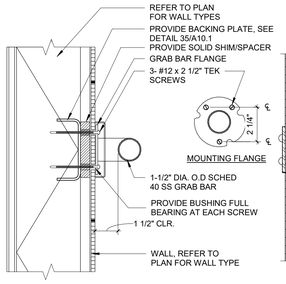
2. COORDINATE LOCATION, LENGTH, HEIGHT, AND NUMBER OF BACKING PLATES REQUIRED WITH ITEM TO BE MOUNTED.
3. FOR METHOD OF ATTACHMENT OF ITEM TO BE MOUNTED, REFER TO THE APPLICABLE DETAIL OR, IF NOT DETAILED, THE INSTRUCTIONS PROVIDED BY THE MANUFACTURER.



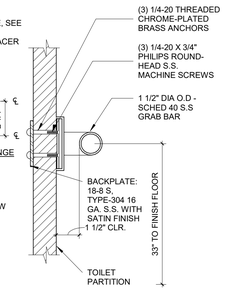
21 A10.1 DOOR SILL (INTERIOR)
SCALE: 3" = 1'-0"



GRAB BAR
AT CONCRETE WALL



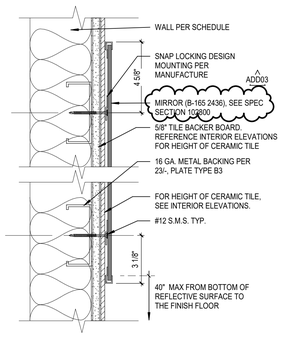
GRAB BAR
AT CERAMIC TILE WALL



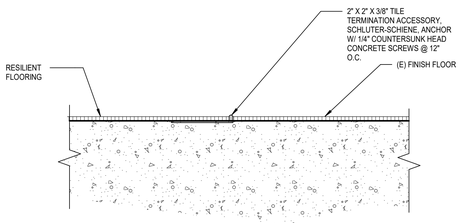
GRAB BAR
AT PARTITION

NOTES:
1. INSTALL BACKING PLATES ACROSS MIN. 3 STUD SPACES. BACKING PLATE LENGTH AS REQUIRED TO SUPPORT ITEMS.
2. FOR GRAB BAR ANCHORAGE AT TOILET PARTITIONS, REFER TO MANUFACTURERS RECOMMENDATION.
3. REFER TO 12/A10.6 FOR TOP OVERHEAD BRACING AND FLOOR ANCHORED LEVELING DETAIL.

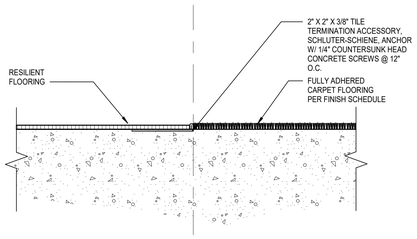
33 A10.1 GRAB BAR
SCALE: 3" = 1'-0"



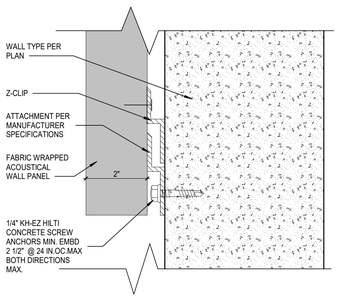
34 A10.1 BATHROOM MIRROR MOUNTING DETAIL
SCALE: 3" = 1'-0"



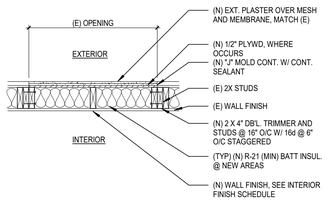
31 A10.1 RESILIENT TO (E) RESILIENT (INT)
SCALE: 6" = 1'-0"



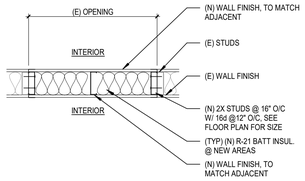
41 A10.1 RESILIENT TO CARPET (INT)
SCALE: 6" = 1'-0"



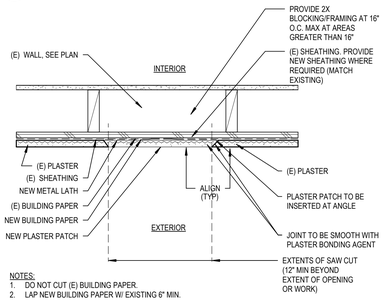
51 A10.1 WALL COVERING TO GYP.
SCALE: 6" = 1'-0"



42 A10.1 IN-FILL AT EXTERIOR STUCCO WALL
SCALE: 3/4" = 1'-0"

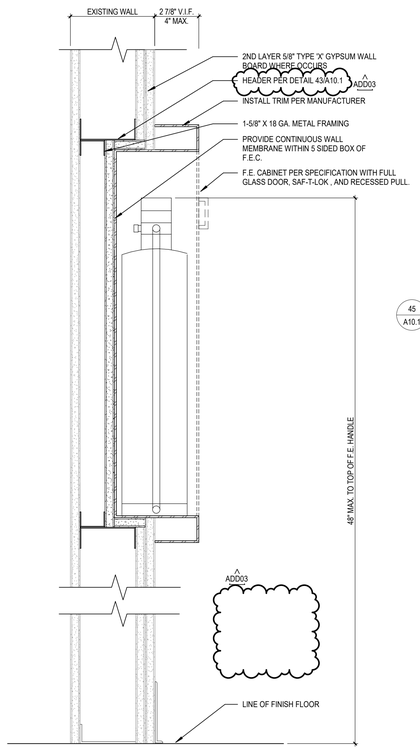


43 A10.1 IN-FILL AT INTERIOR WALL
SCALE: 3/4" = 1'-0"

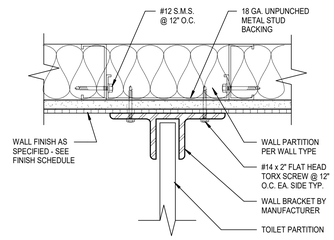


NOTES:
1. DO NOT CUT (E) BUILDING PAPER.
2. LAP NEW BUILDING PAPER W/ EXISTING 6" MIN.

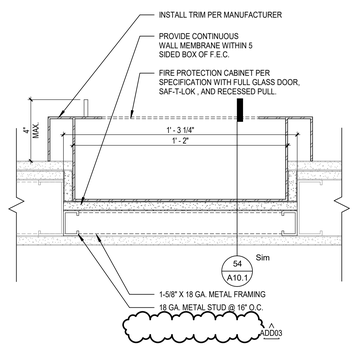
52 A10.1 PLASTER PATCH PLAN
SCALE: 1 1/2" = 1'-0"



54 A10.1 F.E.C. SECTION
SCALE: 3" = 1'-0"



45 A10.1 TOILET PARTITION CONNECTION
SCALE: 3" = 1'-0"



55 A10.1 FIRE EXTINGUISHER CABINET DETAILS
SCALE: 3" = 1'-0"

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DETAILS - INTERIOR

A10.1

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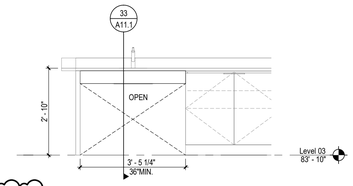
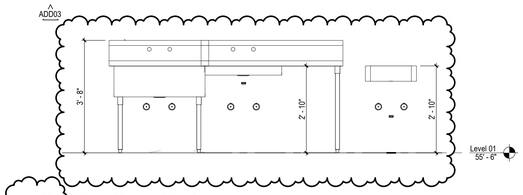
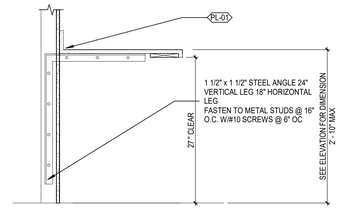


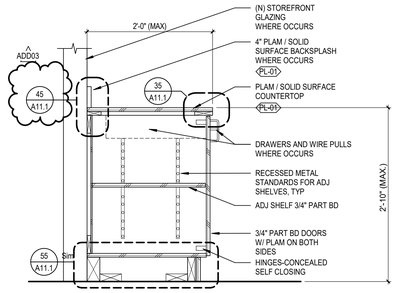
21 A11.1 EXISTING SINK AT COUNTER
SCALE: 1/2" = 1'-0"
ADD03



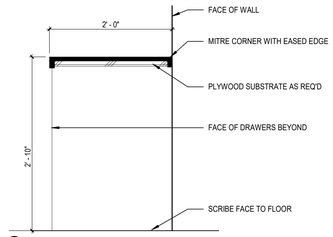
22 A11.1 CERAMIC LAB SINKS
SCALE: 1/2" = 1'-0"
ADD03



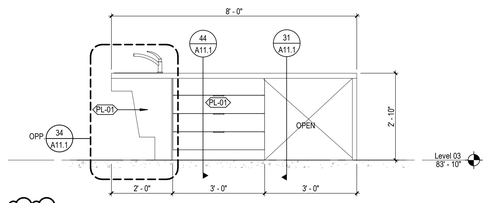
24 A11.1 COUNTERTOP W/CONCEALED STEEL SUPPORTS
SCALE: 1" = 1'-0"



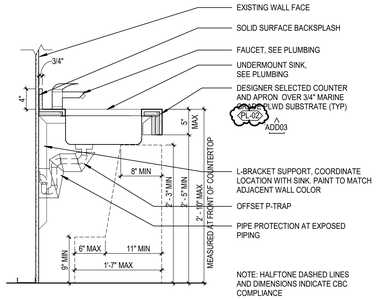
25 A11.1 LOWER CABINET SECTION
SCALE: 1" = 1'-0"



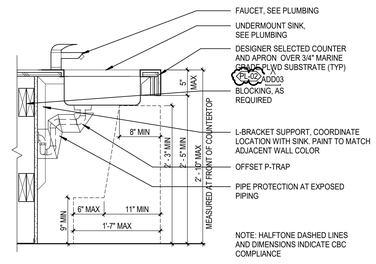
31 A11.1 COUNTER SECTION DETAIL
SCALE: 1" = 1'-0"
ADD03



32 A11.1 TYPICAL ISLAND CASWORK
SCALE: 1/2" = 1'-0"
ADD03

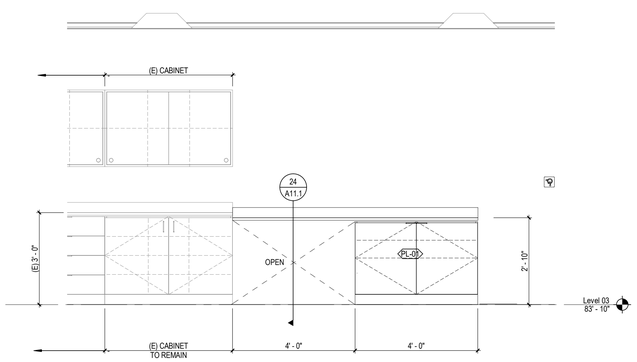


33 A11.1 SINK AT COUNTER DETAIL
SCALE: 1" = 1'-0"

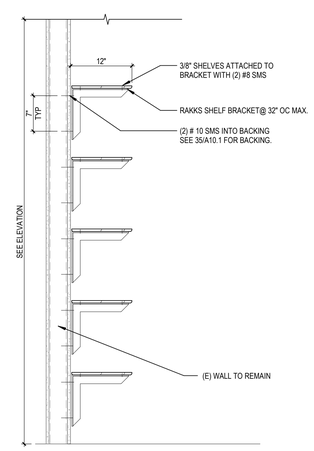


34 A11.1 COUNTER LAV DETAIL
SCALE: 1" = 1'-0"

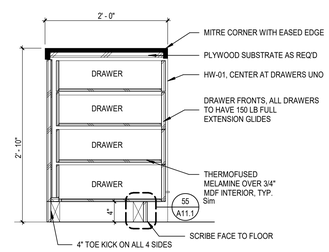
35 A11.1 TYPICAL COUNTERTOP EDGE SECTION
SCALE: 3" = 1'-0"



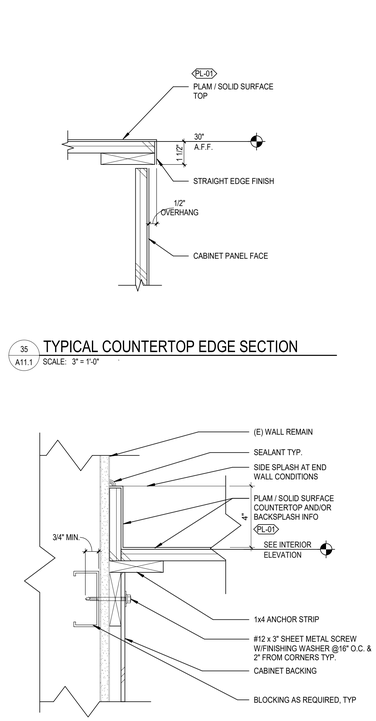
52 A11.1 3RD LEVEL CASEWORK ELEVATION -TYP.
SCALE: 1/2" = 1'-0"



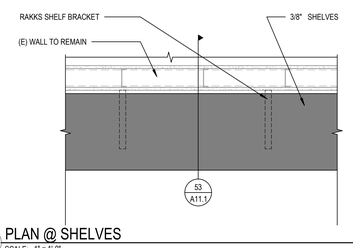
53 A11.1 SECTION @ SHELVES
SCALE: 1" = 1'-0"



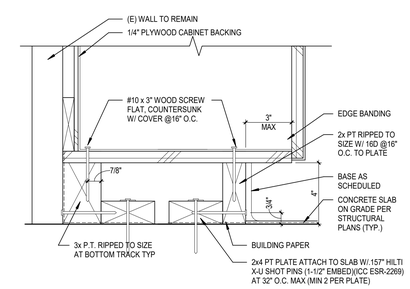
44 A11.1 ISLAND
SCALE: 1" = 1'-0"



45 A11.1 BASE CABINET ANCHORAGE AT TOP
SCALE: 3" = 1'-0"



54 A11.1 PLAN @ SHELVES
SCALE: 1" = 1'-0"



55 A11.1 BASE CABINET ANCHORAGE AT BASE
SCALE: 3" = 1'-0"

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DETAILS - CASEWORK

A11.1

SHEET NOTES

1. PROVIDE A NEW DIFFUSER TITUS MODEL PAR.
2. DEMO HOOD AND DUCT ABOVE THE CEILING SPACE.
3. EXISTING THERMO-STAT TO REMAIN.
4. EXISTING DIFFUSER TO REMAIN.
5. CAP EXISTING RETURN DUCT ABOVE CEILING AND CONNECT NEW EXHAUST DUCT TO DIFFUSER.
6. DEMO EXISTING RETURN PLENUM AND PREPARE FOR NEW DUCT CONNECTION.
7. NEW HOOD: 54"X54"X12", MODEL: VHB BY CAPTIVEAIRE. CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE TO 700 EXHAUST CFM. ADD03
8. CONNECT 12" DIA DUCT TO AN EXISTING EF-43.
9. INSTALL OWNER FURNISHED FLUE TERMINATION KIT - SKUTT KILNS ENVIROVENT-2. 3" DIA FLEXIBLE DUCT WITH WALL MOUNTED BLOWER/MOTOR. TERMINATE OUT THRU WALL. ADD03
10. EXISTING DIFFUSERS/GRILLES SHALL BE CLEAN WITH WATER/SPONGE.

FIRST FLOOR HVAC PLAN

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

REGISTERED PROFESSIONAL ENGINEER JAY CHAPLGANOV No. M 35133 MECHANICAL STATE OF CALIFORNIA

Exp. 12/31/22

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2/4/2022

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75-21204-02

FIRST FLOOR HVAC PLAN

M1.1

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SHEET NOTES

1. EXISTING DUCTWORK IN THE ROOM TO REMAIN.

SECOND FLOOR HVAC PLAN

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

REGISTERED PROFESSIONAL ENGINEER
JAY CHAPLGANOV
No. M 35133
MECHANICAL
STATE OF CALIFORNIA
Exp. 12/31/22

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SECOND FLOOR HVAC PLAN

M1.2

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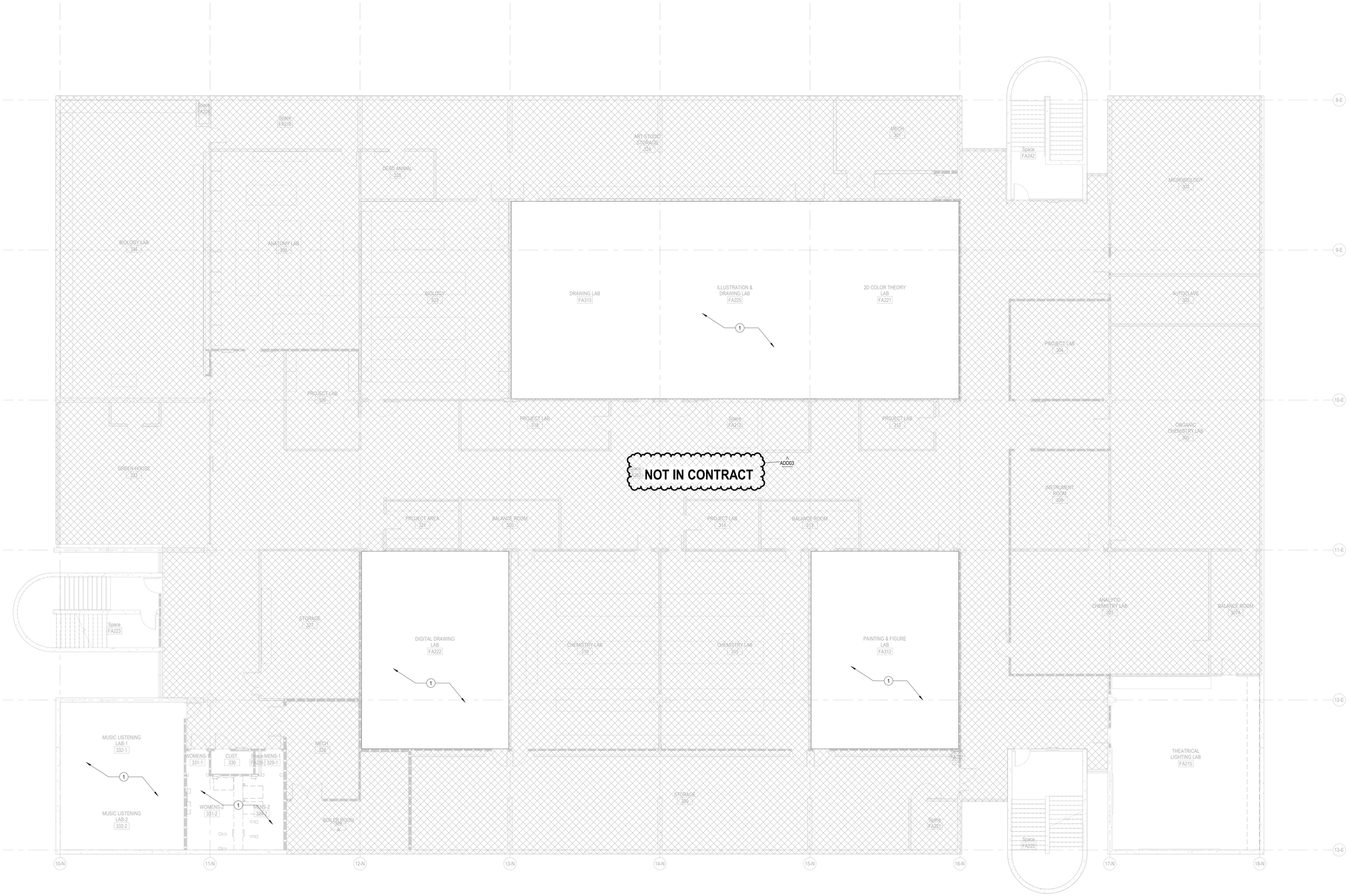

SHEET NOTES

1. EXISTING DUCTWORK IN THE ROOM TO REMAIN.

THIRD FLOOR HVAC PLAN

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

REGISTERED PROFESSIONAL ENGINEER
JAN CHAPLGANOV
No. M 35133
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Exp. 12/31/22

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Cypress College Swing Space
9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL

2/4/2022
Revisions

Add03	5/19/2022	AD003

75-21204-02

THIRD FLOOR HVAC PLAN

M1.3

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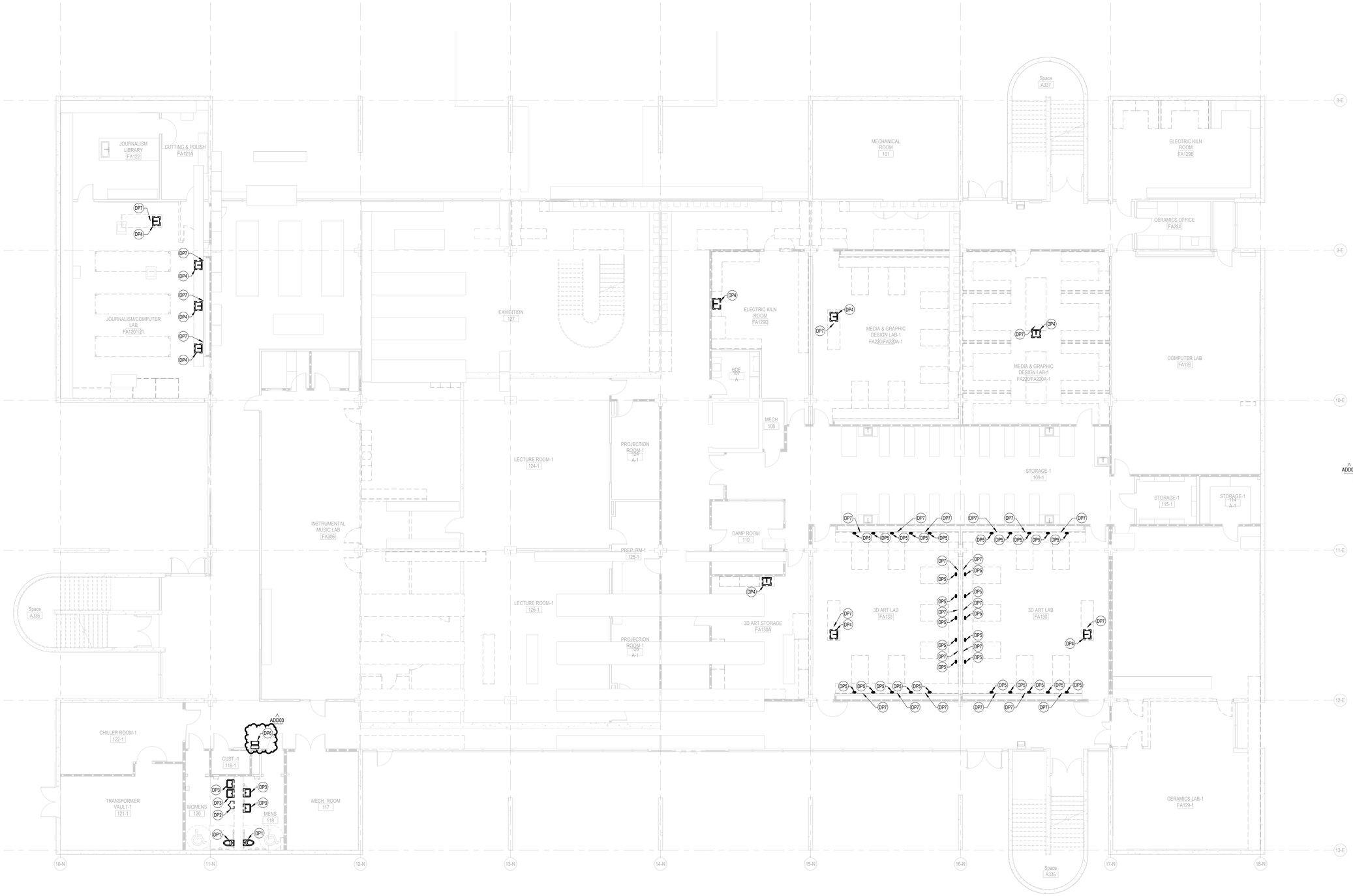

GENERAL NOTES

A SEE GENERAL NOTES AND GENERAL PLUMBING NOTES ON P0.1.

SHEET NOTES

DP1 EXISTING WATER CLOSET TO BE REMOVED BY PLUMBING CONTRACTOR.

DP2 EXISTING URINAL TO BE REMOVED BY PLUMBING CONTRACTOR.

DP3 EXISTING LAVATORY TO BE REMOVED BY PLUMBING CONTRACTOR.

DP4 EXISTING SINK TO BE REMOVED BY PLUMBING CONTRACTOR.

A DP5 EXISTING CUP SINK TO BE REMOVED BY PLUMBING CONTRACTOR.

ADD03 DP6 EXISTING ELECTRIC WATER COOLER TO BE REMOVED BY PLUMBING CONTRACTOR.

DP7 EXISTING GAS & AIR TURRETS TO BE REMOVED BY PLUMBING CONTRACTOR.

OVERALL BASEMENT PLUMBING DEMOLITION PLAN

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

REGISTERED PROFESSIONAL ENGINEER
LAI CHAPMAN
No. M38133
Exp. 12/31/22
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75-21204-02

OVERALL FIRST FLOOR PLUMBING DEMOLITION PLAN

PD2.1

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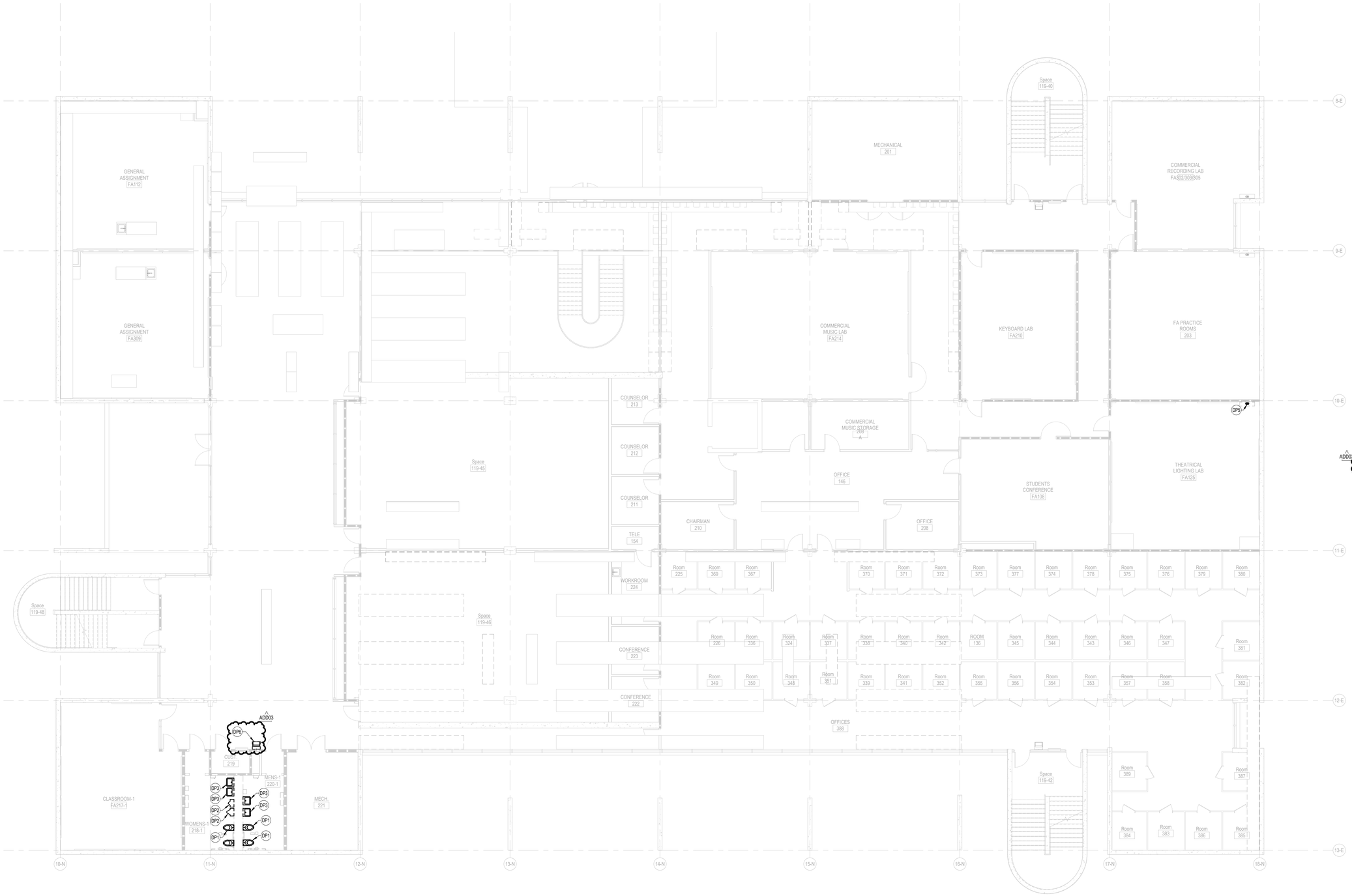

GENERAL NOTES

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DP3 EXISTING LAVATORY TO BE REMOVED BY PLUMBING CONTRACTOR.

DP5 EXISTING CUP SINK TO BE REMOVED BY PLUMBING CONTRACTOR.

ADD03 DP6 EXISTING ELECTRIC WATER COOLER TO BE REMOVED BY PLUMBING CONTRACTOR.

OVERALL SECOND FLOOR PLUMBING DEMOLITION PLAN

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

REGISTERED PROFESSIONAL ENGINEER
LAU CHAPMAN
No. M38510
Exp. 12/31/22
MECHANICAL
STATE OF CALIFORNIA

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Add03	5/19/2022	ADD03

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OVERALL SECOND FLOOR PLUMBING DEMOLITION PLAN

PD2.2

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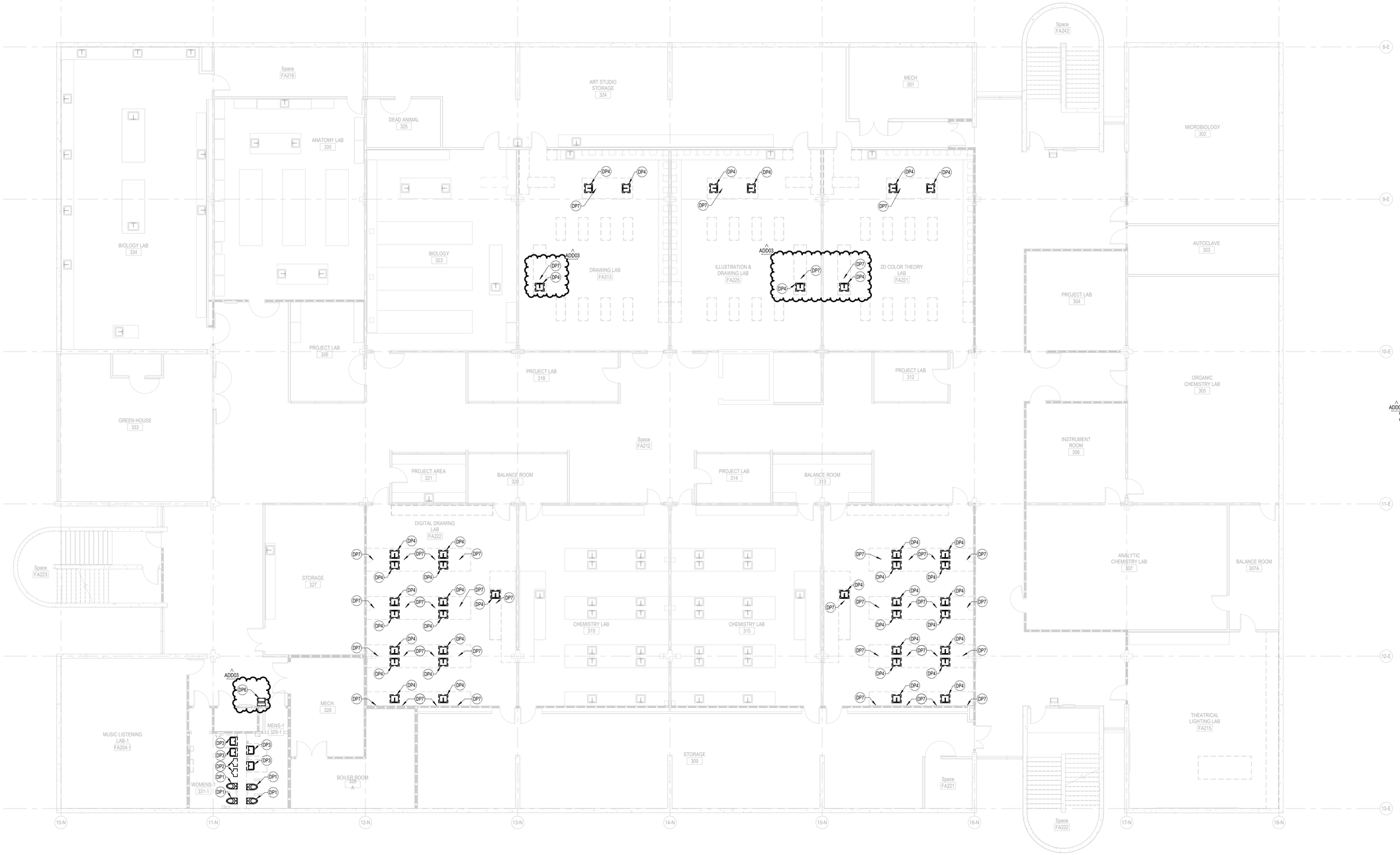

GENERAL NOTES

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SHEET NOTES

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ADD03 DP6 EXISTING ELECTRIC WATER COOLER TO BE REMOVED BY PLUMBING CONTRACTOR.

DP7 EXISTING GAS & AIR TURRETS TO BE REMOVED BY PLUMBING CONTRACTOR.

OVERALL THIRD FLOOR PLUMBING DEMOLITION PLAN

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

REGISTERED PROFESSIONAL ENGINEER
LEE CHAPMAN
No. M36133
Exp. 12/31/22
MECHANICAL
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OVERALL THIRD FLOOR PLUMBING DEMOLITION PLAN

PD2.3

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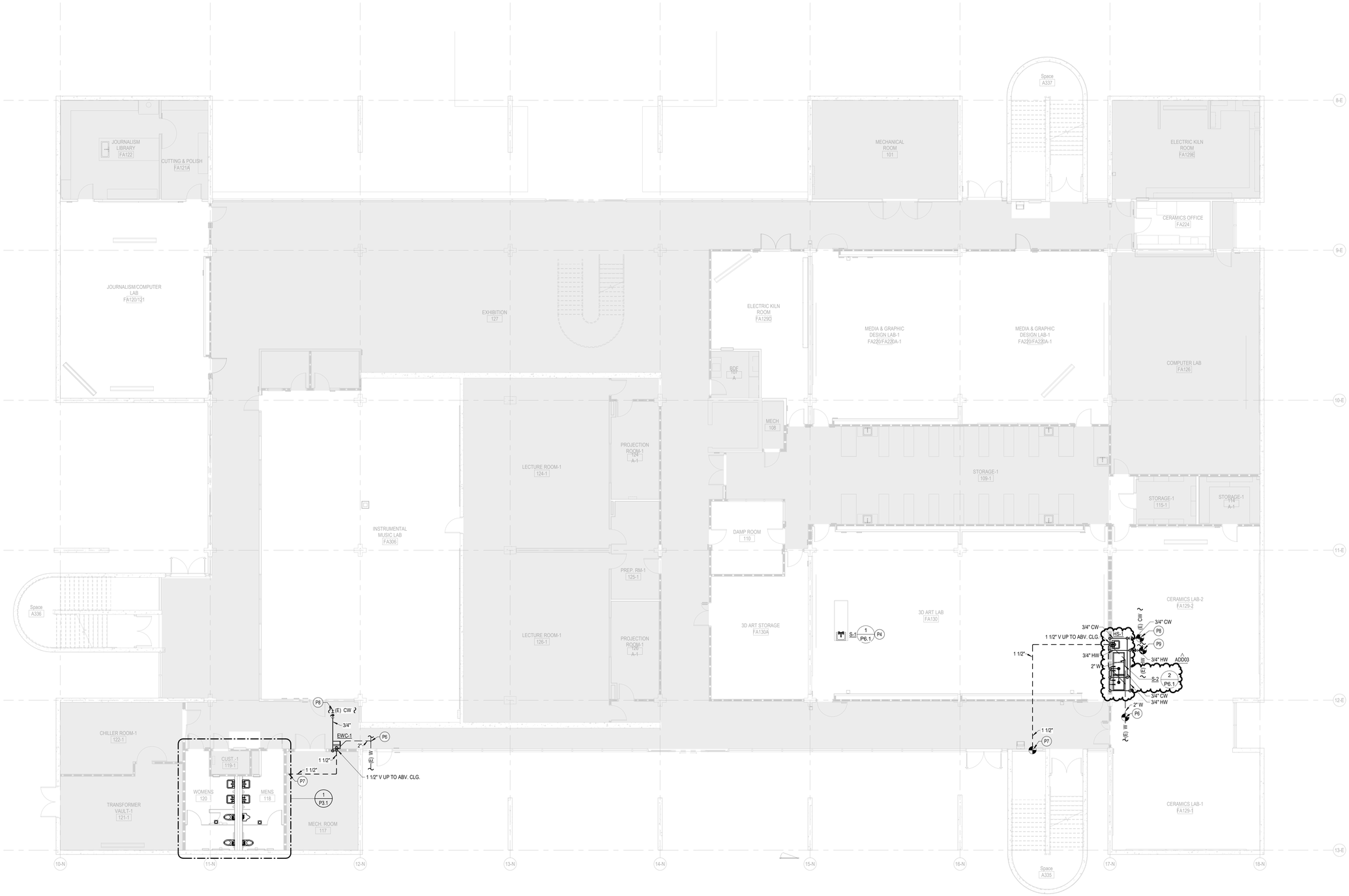

GENERAL NOTES

A SEE GENERAL NOTES AND GENERAL PLUMBING NOTES ON P0.1.

SHEET NOTES

P4 CONTRACTOR SHALL ROUGH-IN AND CONNECT TO EXISTING SERVICES FOR NEW SINK.

P6 P.O.C. NEW 2" WASTE LINE TO EXISTING SEWER LINE BELOW GRADE OR FLOOR. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.

P7 P.O.C. NEW 1-1/2" VENT LINE TO EXISTING VENT ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING

P8 P.O.C. NEW 3/4" COLD-WATER LINE WITH SHUT-OFF VALVE TO EXISTING COLD-WATER LINE ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.

P9 P.O.C. NEW 3/4" HOT-WATER LINE WITH SHUT-OFF VALVE TO EXISTING HOT-WATER LINE ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.

OVERALL FIRST FLOOR PLUMBING PLAN

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

REGISTERED PROFESSIONAL ENGINEER
LEE CHAPMAN
No. M38133
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2/4/2022

Revisions

1	xx/xx/xxx	REV 1
Ad003	5/19/2022	AD003

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OVERALL FIRST FLOOR PLUMBING PLAN

P2.1

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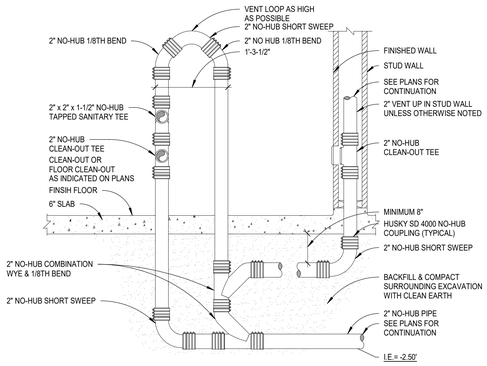
DOMESTIC FIXTURE SCHEDULE

NOTES:
1. ALL ACCESSIBLE WATER CLOSETS SHALL HAVE FLUSH VALVE WITH HANDLE ON THE OPEN SIDE.
2. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
3. ALL URINALS SHALL HAVE CLEANOUTS ABOVE FIXTURE, PER CPC 707.4. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
4. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS.

ID	DESCRIPTION	QTY	MATERIAL DESCRIPTION	FINISH	TRIM				FLOW FIXTURE					FLUSH FIXTURE		PIPE CONNECTION SIZE							SPECIFICATION	BASIS OF DESIGN	
					MANUFACTURER	MODEL	TYPE	MOTION SENSOR CONTROL	WATER FLOW	TIMER DURATION (SEC)	CWT	HWT	MAX. MWT	VOL. PER FLUSH	MIN. VOL. PER FLUSH	WASTE			VENT	COLD WATER	HOT WATER	GAS		MANUFACTURER	MODEL
																PRIMARY	AUX	INDIRECT							
WC-1	WATER CLOSET (WALL HUNG)	3	WHITE VITREOUS CHINA	WHITE	SLOAN	ROAYL 111-1.28	MANUAL	No			60 °F		60 °F	1.28 gal	1.28 gal	4"			2"	1"			ELONGATED WALL HUNG WATER CLOSET, 1-1/2" TOP SPUD. COMPLETE WITH 1.28 GPF FLUSH VALVE, OLSONITE NO. 95CC-SS SEAT, AND ZURN 1201 & 1202 SERIIES CARRIER. MOUNT AD ADA ACCESSIBLE HEIGHT.	AMERICAN STANDARD	2257.101 "AFWALL"
WC-2	WATER CLOSET (WALL HUNG, ADA)	6	WHITE VITREOUS CHINA	WHITE	SLOAN	ROAYL 111-1.28	MANUAL	No			60 °F		60 °F	1.28 gal	1.28 gal	4"			2"	1"			ELONGATED WALL HUNG WATER CLOSET, 1-1/2" TOP SPUD. COMPLETE WITH 1.28 GPF FLUSH VALVE, OLSONITE NO. 95CC-SS SEAT, AND ZURN 1201 & 1202 SERIES CARRIER. MOUNT AD ADA ACCESSIBLE HEIGHT.	AMERICAN STANDARD	2257.101 "AFWALL"
UR-1	URINAL (ADA)	3	WHITE VITREOUS CHINA	WHITE	SLOAN	ROYAL 186-0.125	MANUAL	No			60 °F		60 °F	0.125 gal	0.125 gal	2"			1-1/2"	3/4"			WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND 0.125 GPF FLUSHOMETER, AND ZURN Z-1222 WALL HANGER. INSTALL AT ADA COMPLIANT HEIGHT.	AMERICAN STANDARD	6590.001 "WASHBROOK"
L-1	LAVATORY (WALL HUNG, ADA)	12	WHITE VITREOUS CHINA	WHITE	CHICAGO FAUCET CO	3400-E39VPA BCP	MANUAL	No	0.5 GPM	10	60 °F	120 °F	105 °F			1-1/2"			1-1/2"	1/2"	1/2"		WALL HUNG LAVATORY WITH BACKSPLASH, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED SENSOR FAUCET, 0.5 GPM NON-AERATING SPRAY, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", MCGUIRE PW2125 PRE-WRAPPED P-TRAP & TRAP ARM, AND SUPPLY COVERS, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY, AND ZURN EZ-1231-WL ADJUSTABLE CONCEALED ARM CARRIER WITH SLEEVE FOR WASTE. MOUNT AT ADA COMPLIANT HEIGHT.	AMERICAN STANDARD	0355.041 "LUCERNE"
S-1	SINGLE BOWL SINK (ADA)	6	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	786-E35VPCA BCP	MANUAL	No	1.0 GPM	240	60 °F	120 °F	105 °F			1-1/2"			1-1/2"	1/2"	1/2"		SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF-RIMMING, 22" X 19" X 5-1/2" DEEP. COMPLETE WITH CHICAGO NO. 786-E35VPCABCP DECK MOUNTED, BLADE HANDLES, GOOSENECK FAUCET E35VPAB 1.5 GPM SOFTFLO AERATOR AND VANDAL RESISTANT COVER PLATE. McGUIRE NO. 152 1-1/2" OUTLET "WIDE TOP SINK STRAINER", McGUIRE NO. PW2150NCO 1-1/2" L.A. PATTERN P-TRAP WITH TRAP AND SUPPLY COVERS, AND CHICAGO NO. 1017-ABCP LOOSE KEY STOPS WITH RIGID SUPPLIES. MOUNT IN ACCORDANCE WITH ADA REQUIREMENTS.	ELKAY	LRAD221955 "LUSTERONE"
S-2	DOUBLE BOWL SINK (FREE STANDING, ADA)	1	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	(2) 445-E35ABCP	MANUAL	No	1.0 GPM	240	60 °F	120 °F	105 °F			1-1/2"			1-1/2"	1/2"	1/2"		ELKAY NO. CUSTOM STURDIBILT STAINLESS STEEL SINK, 91.5" x 27-1/2" x 5.5 (RIGHT) & 14" DEEP", 18 GAUGE TYPE 304 STAINLESS STEEL, AND 24" STAINLESS STEEL RIGHT DRAINBOARD. COMPLETE WITH (2) CHICAGO #445-E35ABCP 1.5 GPM FAUCET, ZURN Z1180 SOLIDS INTERCEPTOR, ON FLOOR WITH REMOVABLE PVC SEDIMENT BUCKET HAVING A REMOVABLE 3/32" DIA. PERFORATED FLOW DEFUSING/INTERCEPTING PVC SCREEN, TOP ACCESS GASKETED SECURED COVER, STAINLESS STEEL DRAW LATCHES AND HARWARE WITH AN ABS HANGLE FOR EASY REOVAL OF SEDIMENT BECKET AND SCREEN.LA PATTERN P-TRAP WITH GALVANIZED NIPPLE AND CHROMIUM PLATED BRASS CASING, AND CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY.	ELKAY	CUSTOM STURDIBILT
HS-1	HAND SINK (ADA)	1	STAINLESS STEEL	STAINLESS STEEL	CHICAGO FAUCET CO	3400-E39VPA BCP	MANUAL	No	0.5 GPM	0	60 °F	120 °F	105 °F			1-1/2"			1-1/2"	1/2"	1/2"		FAUCET, 0.5 GPM NON-AERATING SPRAY, McGUIRE NO. 155A 1-1/4" OUTLET "OPEN GRID P.O. PLUG", MCGUIRE PW2125 PRE-WRAPPED P-TRAP & TRAP ARM, AND SUPPLY COVERS, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, CHICAGO NO. 1017-ABCP LOOSE KEY STOP WITH RIGID SUPPLY, AND ZURN EZ-1231-WL ADJUSTABLE CONCEALED ARM CARRIER WITH SLEEVE FOR WASTE. MOUNT AT ADA COMPLIANT HEIGHT.	AMERICAN STANDARD	0355.041 "LUCERNE"
EWC-1	WATER COOLER (SINGLE HEIGHT, ADA)	4	STAINLESS STEEL	STAINLESS STEEL			MANUAL	No	0.1 GPM	15	60 °F		60 °F			2"			1-1/2"	1/2"			SINGLE HEIGHT WITH BOTTLE FILLING STATION, WALL MOUNTED, STAINLESS STEEL, BARRIER FREE, SELF–CONTAINED COMPRESSOR, 8 GPH OF 50° F WATER WITH 80° F INLET WATER AT 90° F AMBIENT, 1/5 HP, 115 VOLT, 1 PHASE. MOUNT AT ADA ACCESSIBLE HEIGHT.	ELKAY	LZS8WSSP



1 P6.1 ISLAND VENT DETAIL
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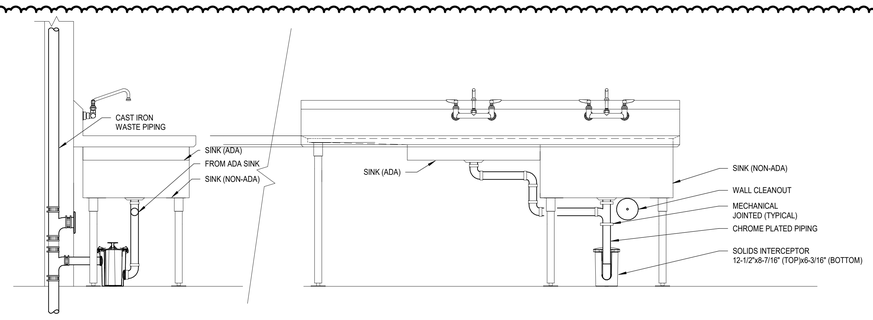
ADD03



2 P6.1 SOLIDS INTERCEPTOR DETAIL
SCALE: 1/8" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
LEE CHAPMAN
No. M35133
No. 1021032
MECHANICAL
STATE OF CALIFORNIA

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PLUMBING SCHEDULES

P6.1

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ABBREVIATIONS

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
Ø	PHASE
A	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME (CIRCUIT BREAKER)
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
AP	WIRELESS ACCESS POINT
AT	AMP TRIP (CIRCUIT BREAKER OR FUSE)
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO-VIDEO, AUDIO-VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BJ	BONDING JUMPER
BKR	BREAKER
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT	CIRCUIT
CU	COPPER
DB	DECIBEL
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANELBOARD
DW	DISHWASHER
ECS	EMERGENCY COMMUNICATION SYSTEM
EGB	ELECTRICAL GROUNDING BUSBAR
EMD	ESTIMATED MAXIMUM DEMAND
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EP	EXPLOSION PROOF
ER	EXISTING (TO BE) RELOCATED
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FLA	FULL LOAD AMPS
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
G	EQUIPMENT GROUNDING CONDUCTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION OF EQUIPMENT
GND	EQUIPMENT GROUNDING CONDUCTOR
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
IC	INTERCOM
IG	ISOLATED GROUND
JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CIRCUIT
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LT	LIGHT
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRTS	MOTOR RATED TOGGLE SWITCH
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TRANSFER SWITCH
N	NEUTRAL
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NON-FUSED
NL	NIGHT LIGHT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE SCREW AND YOKE
P	POLE(S)
PA	PUBLIC ADDRESS
PB	PULL BOX
PH	PHASE
PIV	POST INDICATOR VALVE
PWR	POWER
RCP	REFLECTED CEILING PLAN
RECPT	RECEPTACLE
REF	REFERENCE
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SEC	SECONDARY
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TIME CLOCK
TGB	TELECOMMUNICATIONS GRONDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GRONDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TS	TAMPER SWITCH
TV	TELEVISION
UG	UNDERGROUND
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WA	TELECOMMUNICATIONS WORK AREA
WG	WIRE GUARD
WP	WEATHER-PROOF (NEMA 3R)
XFMR	TRANSFORMER

GENERAL NOTES

1. DRAWINGS AND SPECIFICATIONS: THE ELECTRICAL DRAWINGS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF CONDUIT, EQUIPMENT, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EQUIPMENT TO BE FURNISHED FOR DIMENSIONS, MEASURMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC. REFER TO DIV. 26 SPECIFICATIONS.
2. EXISTING ITEMS INDICATED ON PLANS ARE BASED ON AS-BUILT DRAWINGS PROVIDED AND FIELD OBSERVATIONS AND ARE INTENDED TO GIVE A GENERAL REPRESENTATION OF EXISTING CONDITIONS.
3. ITEMS SHOWN HALF-TONE ARE EXISTING TO REMAIN.
4. EXISTING CONDUIT MAY REMAIN IF ALL THE FOLLOWING ARE TRUE:
   A. IT CAN BE REUSED TO FEED DEVICES INSTALLED UNDER THIS CONTRACT.
   B. IT DOES NOT INTERFERE WITH OTHER TRADES.
   C. IT WAS ORIGINALLY INSTALLED MEETING SPECIFICATIONS RELATED TO THIS PROJECT.
   D. IT WILL NOT BE EXPOSED IN A FINISHED AREA (UNLESS NOTED OTHERWISE).
5. POWER TO THE NEW MECHANICAL EQUIPMENT MAY UTILIZE THE EXISTING RACEWAYS AND BOXES THAT ARE IN A GOOD PHYSICAL CONDITION AND HAVE A SUFFICIENT FILL SPACE, PER THE ELECTRICAL CODE. NEC CHAPTER 9, TABLE 4 SHALL BE USED AS THE BASIS FOR MINIMUM CONDUIT SIZING. MAXIMUM NUMBER OF BRANCH CIRCUITS IN EACH HOMERUN CONDUIT SHALL BE PER NEC WITH DE-RATING FACTORS AS REQUIRED.
6. MAINTAIN FUNCTIONALITY OF ALL EXISTING LOW VOLTAGE SYSTEMS INCLUDING, BUT NOT LIMITED TO, TELECOM CABLING NETWORKS, INTERCOM, CLOCKS, FIRE ALARM, SAFETY AND SECURITY DURING ALL PHASES OF CONSTRUCTION. PROVIDE TEMPORARY INTERCONNECTIONS AS REQUIRED TO ACCOMMODATE CONSTRUCTION SCHEDULE.
7. ANY FLOOR CORING SHALL BE APPROVED BY THE DISTRICT AND COORDINATED WITH A STRUCTURAL ENGINEER.
8. USE OF MC/AC CABLES AND USE OF SET-SCREW FITTINGS ARE NOT ACCEPTABLE.
9. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO CURRENT BUILDING STANDARDS, NATIONAL ELECTRICAL CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA ENERGY CODE (TITLE 24), BOOK SPECIFICATIONS, OCEAN VIEW UNIFIED SCHOOL DISTRICT STANDARDS, AND ALL APPLICABLE CODES AND REGULATIONS INCLUDING REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. WHERE REQUIREMENTS BETWEEN GOVERNING CODES, REGULATIONS, AND SPECIFICATIONS VARY, THE MORE STRINGENT SHALL APPLY.
10. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REVISE, REARRANGE, REROUTE, OR REMOVE EXISTING WIRING CONDUITS, EQUIPMENT, AND DEVICES AS REQUIRED TO ACCOMMODATE THE CHANGES AND ADDITIONS SHOWN AND TO PROVIDE CONTINUING ELECTRICAL SERVICE TO THOSE EXISTING PORTIONS OF THE PROJECT WHICH ARE TO BE IN OPERATION.
11. BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AND OF THE PRESENT INSTALLATIONS TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE CHANGED OR ALTERED BEFORE SUBMITTING FOR BID. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN. NO CONSIDERATION SHALL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS, REQUIREMENTS, AND PRACTICES AT THE SITE.
12. REFER TO SYMBOL LEGEND AND ABBREVIATIONS LIST FOR DEFINITION OF ELEMENTS SHOWN ON DRAWINGS.
13. DRAWINGS ARE DIAGRAMMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS.
14. REFER TO ARCHITECTURAL PLANS, DETAILS, AND ELEVATIONS FOR LOCATIONS, MOUNTING HEIGHTS AND FINISHES FOR ALL EQUIPMENT AND WIRING DEVICES.
15. VERIFY ALL EXISTING CONDITIONS PRIOR TO PERFORMING ALL WORK. NOTIFY ENGINEER OF ANY ADVERSE FIELD CONDITIONS IMMEDIATELY. COORDINATE ENTIRE INSTALLATION WITH ALL OTHER NEW WORK AND EXISTING CONDITIONS.
16. IT IS NOT INTENDED THAT THE PLANS INDICATE ALL THE NECESSARY BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. FIELD COORDINATE EXACT ROUTING OF ALL BRANCH CIRCUITS AND FEEDERS. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS FOR INSTALLATION IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
17. ANY DISCREPANCIES BETWEEN ENGINEERING TRADE AND ARCHITECTURAL DRAWINGS CONCERNING DEVICE OR EQUIPMENT LOCATION SHALL BE BROUGHT TO THE ATTENTION OF AND APPROVED BY THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
18. COORDINATE WITH THE RESPECTIVE TRADE FOR ANY CONNECTIONS TO EQUIPMENT SPECIFIED BY OTHERS.
19. LOCATIONS FOR WIRING DEVICES ARE DEFINED FROM FINISHED FLOOR TO CENTER OF DEVICE.
20. HEIGHT OF DEVICES ARE DEFINED FROM FINISHED FLOOR TO CENTER OF DEVICE.
21. "FURNISH" SHALL BE DEFINED AS TO SUPPLY AND DELIVER TO THE PROJECT SITE INCLUDING UNLOADING FROM DELIVERY VEHICLES AND DROPPING OFF IN STORAGE/HOLDING LOCATIONS AS APPROVED BY THE CLIENT. "INSTALL" SHALL BE DEFINED AS WORK WHICH INCLUDES UNPACKING, ASSEMBLY AND SET UP TO BE READY FOR INTENDED USE. "PROVIDE" SHALL BE DEFINED AS TO FURNISH AND INSTALL. "WIRING" SHALL BE DEFINED AS TO BE ALL INCLUSIVE OF RACEWAYS, CONDUCTORS, JUNCTION BOXES, SAFETY SWITCHES AND MAKING FINAL CONNECTIONS.
22. ALL EXISTING ELECTRICAL EQUIPMENT AND CONDUITS THAT INTERFERE WITH ANY NEW CONSTRUCTION SHALL BE RELOCATED OR RE-ROUTED AS REQURIED TO CLEAR THE NEW CONSTRUCTION, RECONNECT ALL EXISTING EQUIPMENT THAT IS TO REMAIN AND NOT AFFECTED BY THE NEW CONSTRUCTION, TO THE NEWLY RELOCATED OR RE-ROUTED SYSTEM TO ENSURE A SAFE AND OPERATIONAL SYSTEM.
23. INFORMATION ON AVAILABLE CIRCUITS IN EXISTING PANELBOARDS TO BE USED FOR NEW WORK WAS OBTAINED FROM RECORD DOCUMENTS AND ON SITE VISUAL SURVEY. CONTRACTOR SHALL VERIFY ACCURACY AND REASSIGN CIRCUIT NUMBERS AS REQUIRED. UPDATE PANEL SCHEDULE WITH THE LATEST INFORMATION. ALL SPARE CIRCUIT BREAKERS SHALL BE SWITCHED TO THE "OFF" POSITION AFTER VERIFICATION OF NO LOAD CONDITION.
24. CUT AND PATCH TO MATCH ALL EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER INSTALLATION OF NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AS EXISTING AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
25. ALL CONDUCTORS AND PANEL BUSBARS SHALL BE OF COPPER. MINIMUM WIRE SIZE SHALL BE #12AWG. UNDERGROUND CONDUITS SHALL BE PVC MINIMUM SIZE 1". ABOVE GROUND CONDUITS SHALL BE A MINIMUM SIZE OF 3/4".
26. PROVIDE ALL CIRCUIT HOME RUNS IN A MINIMUM OF 1"C.
27. LABEL ALL COVER PLATES WITH PANEL DESIGNATION AND CIRCUIT NUMBER USING P-TOUCH TAPE.
28. IF CONFLICT ARISES BETWEEN DIV. 26 AND ELECTRICAL PLANS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. NOTIFY THEENGINEER OF RECORD IMMEDIATELY ABOUT SUCH CASES.
29. CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER OF RECORD OF ANY PROPOSED SUBSTITUTIONS, IN-WRITING, DURING THE BID PHASE, FOLLOWING THE SUBSTITUTION REQUEST PROCEDURE AS STIPULATED IN THE PROJECT SPEC. NO SUBSTITUTIONS WILL BE ALLOWED AFTER BID.
30. UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR AUTHORIZATION IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD AND DSA.

GENERAL POWER NOTES

(TYPICAL ALL POWER SHEETS)

1. VERIFY ANY NEUTRAL WIRES REQUIRED ON 1PH OR 3PH MECHANICAL UNITS FURNISHED UNDER DIVISION 23. IF REQUIRED, PROVIDE NEUTRAL.
2. ALL OVERCURRENT PROTECTION DISCONNECTING MEANS SHALL BE FULLY RATED. SERIES RATING NOT ALLOWED.
3. HOMERUNS SHALL NOT EXCEED THREE CURRENT CARRYING CONDUCTORS OR ADJUST FOR CODE REQUIRED DERATING.
4. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELS, DISCONNECT SWITCHES, ATS, MAINTENANCE BYPASS DISTRIBUTION BOARDS, UPS, BATTERY CABINETS, ENCLOSED CIRCUIT BREAKERS, TRANSFORMERS, SHALL HAVE LAMICOID LABEL DENOTING POWER SOURCE.
5. ALL PANELS SHALL COME WITH PANEL SCHEDULE DIRECTORY LOCATED INSIDE THE PANEL. ALL SWITCHBOARD CIRCUITS SHALL BE LABELED.
6. ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OUTLINED IN THE SEISMIC RESISTANCE QUALITY ASSURANCE PLAN.
7. ALL EXTERIOR ABOVE GROUND CONDUIT WALLS SHALL BE RGC, AND ROUTING SHALL BE APPROVED BY ARCHITECT.
8. RECEPTACLE RATINGS SHALL BE 15A OR 20A PER RESPECTIVE CIRCUIT OCPD RATING PER PANEL SCHEDULE.

GENERAL WORK EXECUTION NOTES

1. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH THE REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE SCHEDULED WITH OWNER TWO WEEKS IN ADVANCE. ALARM, EMERGENCY AND LIFE SAFETY SYSTEMS SHALL NOT BE INTERRUPTED OR COMPROMISED DURING ANY SHUTDOWNS.
2. CONNECT NEW WORK TO EXISTING IN A NEAT AND APPROVED MANNER. RESTORE EXISTING ELECTRICAL EQUIPMENT DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY OWNER. DISCONNECT, REMOVE, OR RELOCATE ELECTRICAL MATERIALS AND EQUIPMENT AS NOTED AND AS REQUIRED BY CHANGES IN CONSTRUCTION.
3. PROVIDE ALL CUTTING AND PATCHING WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL ADJACENT FINISHES.
4. CUT, CHANNEL OR FISH EXISTING WALLS SCHEDULED TO REMAIN AS REQUIRED TO INSTALL ELECTRICAL ITEMS AS SHOWN ON THE PLANS. WHERE EXISTING WALLS HAVE BEEN CUT, PATCH AND FINISH WALL SURFACE TO MATCH ADJACENT AREA AS DIRECTED BY ARCHITECT.
5. CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM THIS SITE. DISCONNECT AND REMOVE ALL TEMPORARY POWER INCLUDING BUT, NOT NECESSARILY LIMITED TO PANELS, FIXTURES, BOXES AND WIRING.
6. DEMONSTRATE TO THE OWNER'S SATISFACTION THE PROPER OPERATION OF EACH SYSTEM COMPRISING THIS CONTRACT BEFORE FINAL PAYMENT. GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.
7. PROVIDE A MINIMUM OF ONE (1) SET OF RECORD DRAWINGS TO ARCHITECT OR OWNER. THESE DRAWINGS SHALL SHOW EXACT EQUIPMENT LOCATIONS, CONCEALED FEEDER ROUTINGS, AND SHALL INDICATE THE "AS-BUILT" CONDITION.
8. PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR AND WALL PENETRATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS. FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED PER NEC ARTICLE 300.21.
9. FIRE STOPPING MATERIALS SHALL CONFORM TO FLAME (F) AND TEMPERATURE (T) RATINGS REQUIRED BY LOCAL BUILDING CODE AND AS TESTED BY NATIONALLY ACCEPTED TEST AGENCIES PER ASTM E-814 OR UL 1479 AND UL #WL1001 FIRE TESTS IN A CONFIGURATION THAT IS REPRESENTATIVE OF FIELD CONDITIONS. THE (F) RATING SHALL BE A MINIMUM OF ONE (1) HOUR BUT NOT LESS THAN THE FIRE RESISTANCE OF THE ASSEMBLY BEING PENETRATED.
10. ALL WIRING AND CONNECTORS SHALL BE SELECTED SO THEY ARE IN COMPLIANCE WITH NEC 110.14(C). COORDINATE ALL WIRING AND TERMINATION PROVISIONS FOR EQUIPMENT FOR CIRCUITS RATED 100 AMPS OR LESS SO THAT THE AMPACITY OF ALL CONDUCTORS AND TERMINATION CONNECTORS IS PROPERLY SELECTED BASED ON THE TEMPERATURE RATING FROM NEC TABLE 310.15(B)(16) MATCHES THE TEMPERATURE RATING OF THE EQUIPMENT TERMINALS.

CODE ANALYSIS

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators *(per 2019 CBC Part 2 Ch 35)*
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended)....2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems....2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems....2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection....2016 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection....2013 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)....2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended)....2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives....2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)....2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment....2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories....2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems....1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired....2002 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands....2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

ELECTRICAL SCOPE OF WORK

THE FOLLOWING IS ELECTRICAL SCOPE OF WORK IN GENERAL. CONTRACTOR SHALL PROVIDE REQUIRED MATERIALS, LABOR, EQUIPMENT, AND ALL APPURTENANCES TO HAVE A COMPLETE OPERATIONAL SYSTEM.

1. TO FEED NEW PORTABLE ROOMS AT PARKING LOT D FROM THE EXISTING MAIN SWITCHBOARD.
2. IDENTIFY ADEQUATE PATHING OF ELECTRICAL AND TELECOMM TRENCHING.
3. ESTABLISH OVERHEAD ELECTRICAL LINES THAT ARE TO BE FED FROM UNDERGROUND CONDUITS DOWNSTREAM.

LIGHTING FIXTURES

- LITHONIA WST LED P2 40K VW MVOLT E20WH
- LITHONIA WL4 30L MVOLT EZ1 LP835 PAF
- LITHONIA STAKS 2X4 AL06 SWW7
- LITHONIA STAKS 2X4 AL06 SWW7. PROVIDE WITH ILBLP CP10 HE SD A 90 MINUTE BATTERY.
- LITHONIA LQM S W 3 G MVOLT EL N - EXIT SIGN, WALL MOUNTED, DIRECTIONAL ARROW(S). AS INDICATED. PROVIDE WITH 90 MIN. BATTERY. MOUNT 94-INCHES AFF, UNO

LIGHTING CONTROLS SYMBOLS

- $_{LV}$ LOW VOLTAGE ROCKER SWITCH SYMBOL BASIS OF DESIGN: LEVITON 56081-2W
- $_{KS}$ LOW VOLTAGE KEYPAD STATION BASIS OF DESIGN: LEVITON RLVSW-4LW

CEILING MOUNTED LIGHTING CONTROL DEVICES

- X OS — OCCUPANCY SENSOR BASIS OF DESIGN: LEVITON OSC20-MWW PROVIDE WITH POWER PACK OPP20-D2 24VDC.
- FIXTURE CONTOL DESIGNATOR
- PW — POWER PACK BASIS OF DESIGN: LEVITON OPP20-D2 24VDC.
- RC — ROOM CONTROLLER BASIS OF DESIGN: LEVITON MZD20-102

LIGHTING CONTROL SEQUENCE OF OPERATION:

	MANUAL FULL ON	AUTO ON TO 50%	AUTO FULL ON	FULL OFF	MULTILEVEL LIGHTING CONTROL	DAYLIGHT HARVESTING
CLASSROOMS	X	-	X	X	X	-
RESTROOMS	X	-	X	X	-	-

X = REQUIRED
- = NOT REQUIRED

Applicable Code: 2019 CBC 02/05/2020 Revised: 02/14/2020

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☐ PP ☐ E ☐ Option 1: Detailed on the approved drawings with project specific notes and details.

MP ☐ MD ☐ PP ☐ E ☒ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) # 0052-13 .

ELECTRICAL SYMBOLS

POWER

- CIRCUIT HOME RUN
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB-UP
- CONDUIT SLEEVE
- CONDUIT SEAL
- CONDUIT CONCEALED IN CEILING OR WALLS, POWER
- CONDUIT CONCEALED IN CEILING OR WALLS, OTHER (* = SEE ABBREVIATIONS)
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, POWER
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND, OTHER (* = SEE ABBREVIATIONS)
- EXPOSED CONDUIT, POWER
- EXPOSED CONDUIT, OTHER (* = SEE ABBREVIATIONS)
- FRS — FIRE RATED SLEEVE
- T — TRANSFORMER
- XXX — BRANCH CIRCUIT PANELBOARD MOUNT 72-INCHES TO TOP
- XXX — DISTRIBUTION PANELBOARD MOUNT 72-INCHES TO TOP
- EQUIPMENT CABINET, AS NOTED
- XXX — SWITCHBOARD
- MULTI-OUTLET ASSEMBLIES MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER
- DIVIDED SURFACE RACEWAY MOUNT 18-INCHES AFF, UNO WHERE DENOTED 'AC', MOUNT ABOVE COUNTER

PUSHBUTTON STATION: MOUNT 42-INCHES AFF UNO

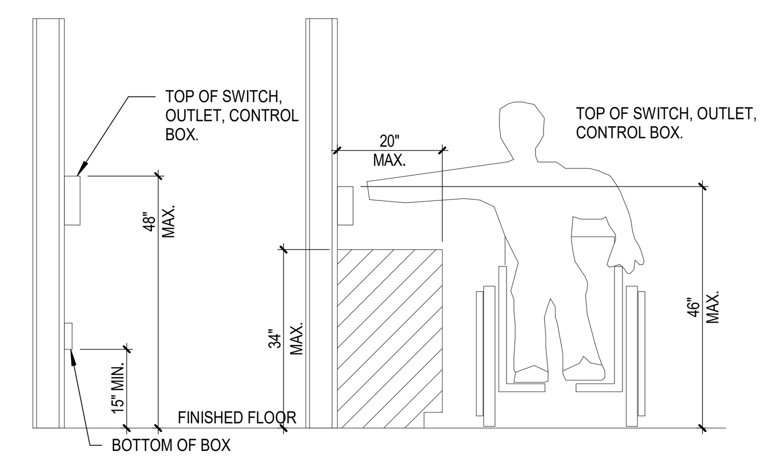
- SWITCH, PUSH BUTTON, SINGLE
- SWITCH, PUSH BUTTON, DOUBLE
- SWITCH, PUSH BUTTON, TRIPLE
- BX — BUCK-BOOST TRANSFORMER

RECEPTACLES: MOUNT 18-INCHES AFF, UNO

DIAGONAL LINE THROUGH SYMBOL OR DENOTED 'AC' INDICATES MOUNT DEVICE ABOVE COUNTER. WHERE INDICATED AS 'MOUNT ABOVE COUNTER' MOUNT BOTTOM OF BOX 2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH EXISTS.

LABELS SHALL BE MACHINE PRINTED, UNO

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, GFI TYPE
- DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER
- DUPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
- FOURPLEX RECEPTACLE
- FOURPLEX RECEPTACLE, GFI TYPE
- FOURPLEX RECEPTACLE, MOUNT ABOVE COUNTER
- FOURPLEX RECEPTACLE, GFI TYPE, MOUNT ABOVE COUNTER
- DUPLEX RECEPTACLE, FLUSH IN CEILING
- DUPLEX RECEPTACLE, HORIZONTALLY MOUNTED
- DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE
- DUPLEX RECEPTACLE, HORIZ. MTD, ABOVE COUNTER
- DUPLEX RECEPTACLE, HORIZ. MTD, GFI TYPE, MOUNT ABOVE COUNTER
- R — WEATHER RESISTANT GFI DUPLEX RECEPTACLE, ROOF MOUNT 18-INCHES ABOVE ADJACENT STRUCTURE WITH A WEATHERPROOF, IN-USE COVER
- DUPLEX RECEPTACLE, EMERGENCY
- FOURPLEX RECEPTACLE, EMERGENCY
- DUPLEX RECEPTACLE, LOWER SWITCH
- DUPLEX RECEPTACLE, SWITCHED
- RANGE RECEPTACLE, MOUNT 8-INCHES AFF
- SPECIAL RECEPTACLE, DEEP WELL BOX
- FLUSH FLOOR OUTLET BOX UNO
- FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE UNO



NOTE:
PROVIDE 30"WX27"HX19"-25"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION

5 / E0.1 ACCESSIBLE MOUNTING HEIGHT DETAIL
NO SCALE

GENERAL SYMBOLS

- ? SIM / ??? — DETAIL NUMBER, CROSS REFERENCE, SHEET NUMBER
- ? SIM / ??? — DETAIL REFERENCE
- ? East ? — BUILDING ELEVATION, INTERIOR ELEVATION
- ? — KEYED NOTE
- ? — COLUMN GRID LINE
- ROOM NAME ??? — ROOM NAME / ROOM NUMBER
- ? — DOOR NUMBER
- X — EQUIPMENT TAG
- DESCRIPTION — REVISION NUMBER

SHEET INDEX

E0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES
E0.2	TITLE 24 FORMS
E0.3	TITLE 24 FORMS
E1.0	OVERALL FIRST FLOOR LIGHTING PLAN
E1.1	OVERALL SECOND FLOOR LIGHTING PLAN
E1.2	OVERALL THIRD FLOOR LIGHTING PLAN
E2.1	OVERALL FIRST FLOOR POWER PLAN
E2.2	OVERALL SECOND FLOOR POWER PLAN
E2.3	OVERALL THIRD FLOOR POWER PLAN
E5.1	EXISTING LINE DIAGRAM
E6.1	ELECTRICAL DETAILS
E7.1	ELECTRICAL SCHEDULES
E7.2	ELECTRICAL SCHEDULES

ADD03

* NOTE *

ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THIS SET.

THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF DRAWINGS.

LIGHTING FIXTURE...

ID	Manufacturer	Model	Voltage	Apparent Load
				61 VA
A	LITHONIA	STAKS 2X4 AL06	277 V	32 VA
B	LITHONIA	WL4 30L	277 V	28 VA
W1	LITHONIA	WST LED	277 V	18 VA
X1	LITHONIA	EDG-1-G-ELN	277 V	10 VA

ADD03

GENERAL SYMBOLS

- POINT OF DISCONNECT - DEMOLITION REMOVED FROM EXISTING
- POINT OF CONNECTION - NEW CONNECTS TO EXISTING
- AREA NOT IN CONTRACT

ONE-LINE DIAGRAM

- X — ENCLOSED CONTROLLER (ACROSS-THE-LINE UNO) MOUNT 60-INCHES AFF TO TOP
  X = STARTER NEMA SIZE
- XX/X, XXAF, XX — ENCLOSED SWITCH; MOUNT 60-INCHES AFF TO TOP
  XX/X = AMP RATING / NO. OF POLES
  XXAF = FUSE SIZE; AF=AMP FUSE; NF=NO FUSE
  X = STARTER NEMA SIZE
- XX/X, XXAF, XX — COMBINATION CONTROLLER \ DISCONNECT; MOUNT 60-INCHES AFF TO TOP
  XX/X = AMP RATING / NO. OF POLES
  XXAF = FUSE SIZE; AF=AMP FUSE; NF=NO FUSE
  XX = ENCLOSURE NEMA RATING; BLANK=NEMA 1; WP=NEMA 3R
- M — METER SOCKET/METER
- SPD — SURGE PROTECTION DEVICE
- T, XX — TRANSFORMER
  T = TRANSFORMER ID
  XX = SIZE
- XXX/X, LSIG — BREAKER
  XXX/X = AMP RATING / POLES
  LSIG = ADJUSTABLE SETTINGS (WHERE NOTED)
  L = LONG TIME
  S = SHORT TIME
  I = INSTANTANEOUS
  G = GROUND FAULT PROTECTION OF EQUIPMENT
  GFPE = GROUND FAULT PROTECTION OF EQUIPMENT
  ERMS = ENERGY REDUCTION MAINTENANCE SWITCH
- XXX/3, XXX — FUSIBLE SWITCH
  XXX/X = SWITCH AMP RATING / POLES
  XXX = FUSE SIZE
- GROUNDING ELECTRODE SYSTEM

PROFESSIONAL ENGINEER ROOZBEH MEHRKISH E-19355 12/31/22 ELECTRICAL STATE OF CALIFORNIA

DLR Group
© DLR Group

Cypress College Swing Space
9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL

2/4/2022
Revisions

Add03	5/19/2022	ADD03

75-21204-02

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E0.1

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_MEP_2020.rvt
5/17/2022 3:35:25 PM

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — 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.			
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 1 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

A. GENERAL INFORMATION

01	Project Location (city)	CYPRESS	04	Total Conditioned Floor Area (ft^2)	6,169
02	Climate Zone	8	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☒ School ☒ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (Write in) See Table I

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 or §141.0(b)2 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 (ft^2)	Calculation Method	Area (ft^2)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	6169	Area Category Method	0
Total Area of Work (ft^2)	6169		0	

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2022-05-16 13:56:56

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 2 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

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	Allowed Lighting Power per §140.6(b) (Watts) 01 Complete Building §140.6(c)1 (See Table I)	02 Area Category §140.6(c)2 (See Table I)	03 Area Category Additional §140.6(c)2G (+) (See Table J)	04 Tailored §140.6(c)3 (+) (See Table K)		05 Total Allowed (Watts)	≥	Adjusted Lighting Power per §140.6(a) (Watts) 06 Total Designed (Watts)	07 Adjustments PAF Lighting Control Credits §140.6(a)2 (-)	=	08 Total Adjusted (Watts) *Includes Adjustments	Compliance Results 09 05 must be >= 08 §140.6
Conditioned		4,271.8	0		=	4,272	≥	3,952	395	=	3557	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.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	Fail
A	A	No	No	32	CEC Default	113	No	3,616	☐	☐

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 3 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	B	No	No	28	CEC Default	12	No	336	☐	☐
Total Designed Watts: CONDITIONED SPACES								3,952		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)H8 is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2] Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) 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. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03 Field Inspector Pass	Fail
Mandatory Demand Response §130.12(c)	Shut-off controls §130.1(c)		
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Skylit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(a)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*							13 Plan Sheet Showing Daylit Zones:		

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 4 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

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 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft^2)	04 Area (ft^2)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment: Area Category	PAF
1ST FLR CLASSROOMS	Classroom, Lecture, or Training Vocational Area	0.7	5,239	3,667.3	Yes	No
1ST FLR BATHROOMS	Restrooms	0.65	110	71.5	Yes	No
2ND FLR BATHROOMS	Restrooms	0.65	310	201.5	Yes	No
3RD FLR BATHROOMS	Restrooms	0.65	310	201.5	Yes	No
		TOTALS:	6,169	4,271.8	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.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 5 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This table includes all areas indicated in Table I or Table K as using a PAF credit described in §140.6(a)2.

Conditioned Spaces

01 Area Description	02 PAF per §140.6(a)2 [1]: 1 Pick up to one	2A Pick up to one	2B Pick up to one	2C Pick up to one	3A Pick up to one	3B Pick up to one	4 Pick up to one	5 Pick up to one	6 Pick up to one	7 Pick up to one	03 Luminaires Controlled for PAF Credit: Luminaire Name or Item Tag	04 Luminaire Design Watts	05 Number of Luminaires	06 Lighting Controlled (Watts)	07 Control Credit Power Adjustments (Watts)
1ST FLR CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	A	32	34	1088	108.8
1ST FLR CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	A	32	30	960	96.0
1ST FLR CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	A	32	30	960	96.0
1ST FLR CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	A	32	19	608	60.8
1ST FLR BATHROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	B	28	2	56	5.6
1ST FLR BATHROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	B	28	2	56	5.6
2ND FLR BATHROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	B	28	2	56	5.6
2ND FLR BATHROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	B	28	2	56	5.6
3RD FLR BATHROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	B	28	2	56	5.6
3RD FLR BATHROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	B	28	2	56	5.6
		08										09			
☐	All spaces applying PAF 5, 6 or 7 include a daylight design meeting requirements in §140.3(d). See Table S.										**Total Power Adjustment (Watts) CONDITIONED SPACES:**				395.2

[1] FOOTNOTES: PAFs outlined in Table 140.6-A include 1) Daylight dimming plus OFF; 2A) Occupant sensors in offices [dite/] 125 ft^2; 2B) Occupant sensors in offices 126 - 250 ft^2; 2C) Occupant sensors in offices 251 - 500 ft^2; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 6 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This table documents clerestories, horizontal slats or light shelves meet the requirements in §140.3(d) If a Power Adjustment Factor was claimed on Table P. These features must be documented on the architectural plans or where appropriate within the construction documents. This PAF also must be verified in the field with an acceptance test per Table U.

01	Compliance Strategy

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	CYPRESS COLLEGE SWING SPACE	**Report Page:**	**(Page 7 of 7)**
Project Address:	9200 VALLEY VIEW ST.,	**Date Prepared:**	5/16/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Michael Guerrero	Documentation Author Signature:
Company: DLR Group	Signature Date:
Address: 700 Flower S. St.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Los Angeles, CA 90017	Phone: 310-514-6278

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: ROOZBEH MEHRKISH	Responsible Designer Signature:
Company: DLR Group	Date Signed: 2022-05-16
Address: 700 South Flower Street, Suite 2200	License: E19355
City/State/Zip: Los Angeles CA 90017	Phone: (213) 800-3400

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft
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REGISTERED PROFESSIONAL ENGINEER ROOZBEH MEHRKISH E-19355 12/31/22 ELECTRICAL STATE OF CALIFORNIA

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2/4/2022
Revisions

Add03	5/19/2022	AD003

75-21204-02

TITLE 24 FORMS

E0.2

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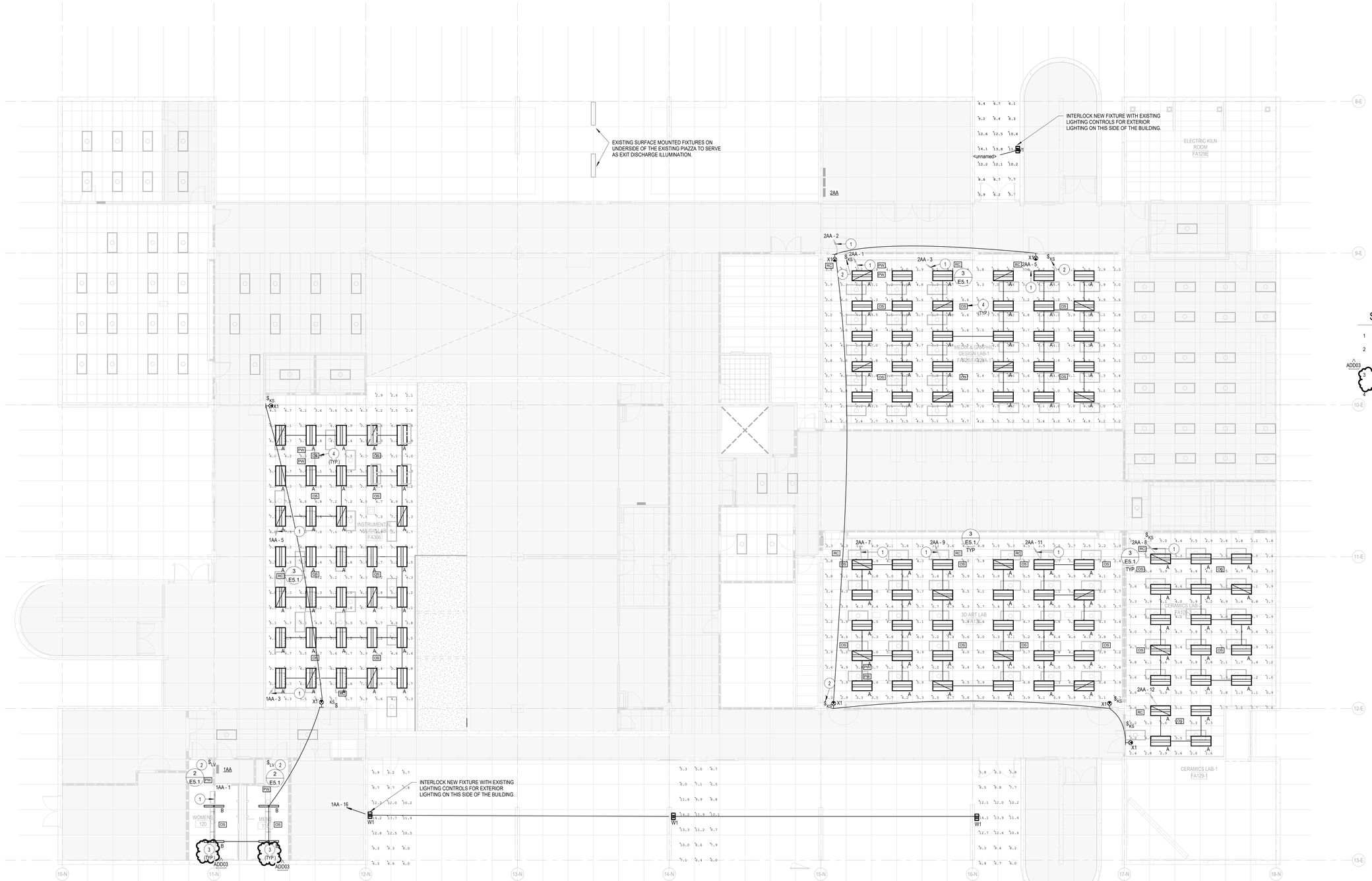

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
3D ART LAB_FLOOR	Illuminance	Fc	4.92	7.2	1.8	2.73	4.00
CERAMICS_FLOOR	Illuminance	Fc	3.72	6.4	0.6	6.20	10.67
EAST CENTER EXIT DISCHARGE_GROUND	Illuminance	Fc	8.73	14.2	4.7	1.86	3.02
INSTRUMENTAL MUSIC LAB_FLOOR	Illuminance	Fc	5.59	8.0	2.1	2.66	3.81
MEDIA & GRAPHICS_FLOOR	Illuminance	Fc	4.86	7.0	1.8	2.70	3.89
NORTH EAST EXIT DISCHARGE_GROUND	Illuminance	Fc	9.44	14.1	5.8	1.63	2.43
NORTH EXIT DISCHARGE_Floor	Illuminance	Fc	9.44	14.1	5.7	1.66	2.47
NORTH WEST EXIT DISCHARGE GROUND	Illuminance	Fc	9.44	14.1	5.7	1.66	2.47

SHEET NOTES

1. EXTEND EXISTING BRANCH CIRCUIT SERVING LIGHTING IN THIS AREA AS SHOWN. TYP.
2. DEMOLISH AND REMOVE EXITING LIGHTING SWITCH/ MOTION SENSOR COMBO. REPLACE WITH NEW LEVITON ROCKER SWITCH. INTERLOCK NEW LIGHT FIXTURES WITH NEW LIGHTING CONTROLS AS SHOWN.
3. DISCONNECT AND DEMOLISH EXISTING LIGHTING FIXTURES PRIOR TO INSTALLATION OF NEW FIXTURES ARE SHOWN. TYPICAL
4. INTERLOCK NEW LIGHTING CONTROLS DEVICES WITH LIGHTING FIXTURES.

ADD03

OVERALL FIRST FLOOR LIGHTING PLAN

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

REGISTERED PROFESSIONAL ENGINEER SOOLABEH MEHROOSI E-19355 ELECTRICAL 12/31/22 STATE OF CALIFORNIA

DLR Group

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75-21204-02

OVERALL FIRST FLOOR LIGHTING PLAN

E1.0

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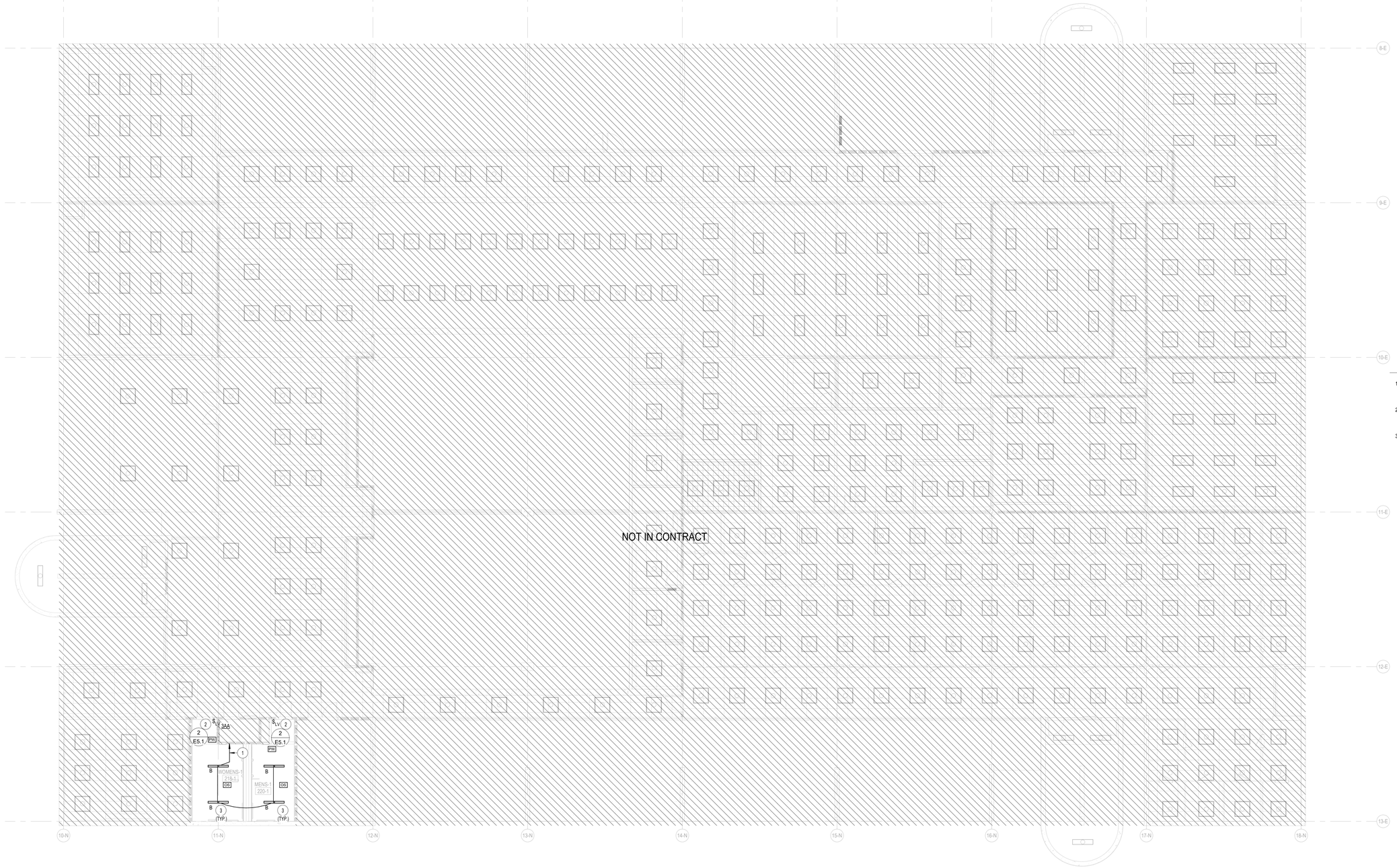

SHEET NOTES

1. DISCONNECT EXISTING BRANCH CIRCUIT AND PROTECT IN PLACE EXISTING BRANCH CIRCUIT DURING THE CEILING DEMOLITION PHASE. EXTEND EXISTING BRANCH CIRCUIT SERVING LIGHTING IN THIS AREA AS SHOWN. TYP.
2. DEMOLISH AND REMOVE EXITING LIGHTING SWITCH/ MOTION SENSOR COMBO. REPLACE WITH NEW LEVITON ROCKER SWITCH. INTERLOCK NEW LIGHT FIXTURES WITH NEW LIGHTING CONTROLS AS SHOWN.
3. DISCONNECT AND DEMOLISH EXISTING LIGHTING FIXTURES PRIOR TO INSTALLATION OF NEW FIXTURES ARE SHOWN. TYPICAL.

1 / E1.1 OVERALL SECOND FLOOR LIGHTING PLAN

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

REGISTERED PROFESSIONAL ENGINEER
SOOLBEH MEHROOM
E-19355
12/31/22
ELECTRICAL
STATE OF CALIFORNIA

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Add03	5/19/2022	AD003

75-21204-02

OVERALL SECOND FLOOR LIGHTING PLAN

E1.1

AD003

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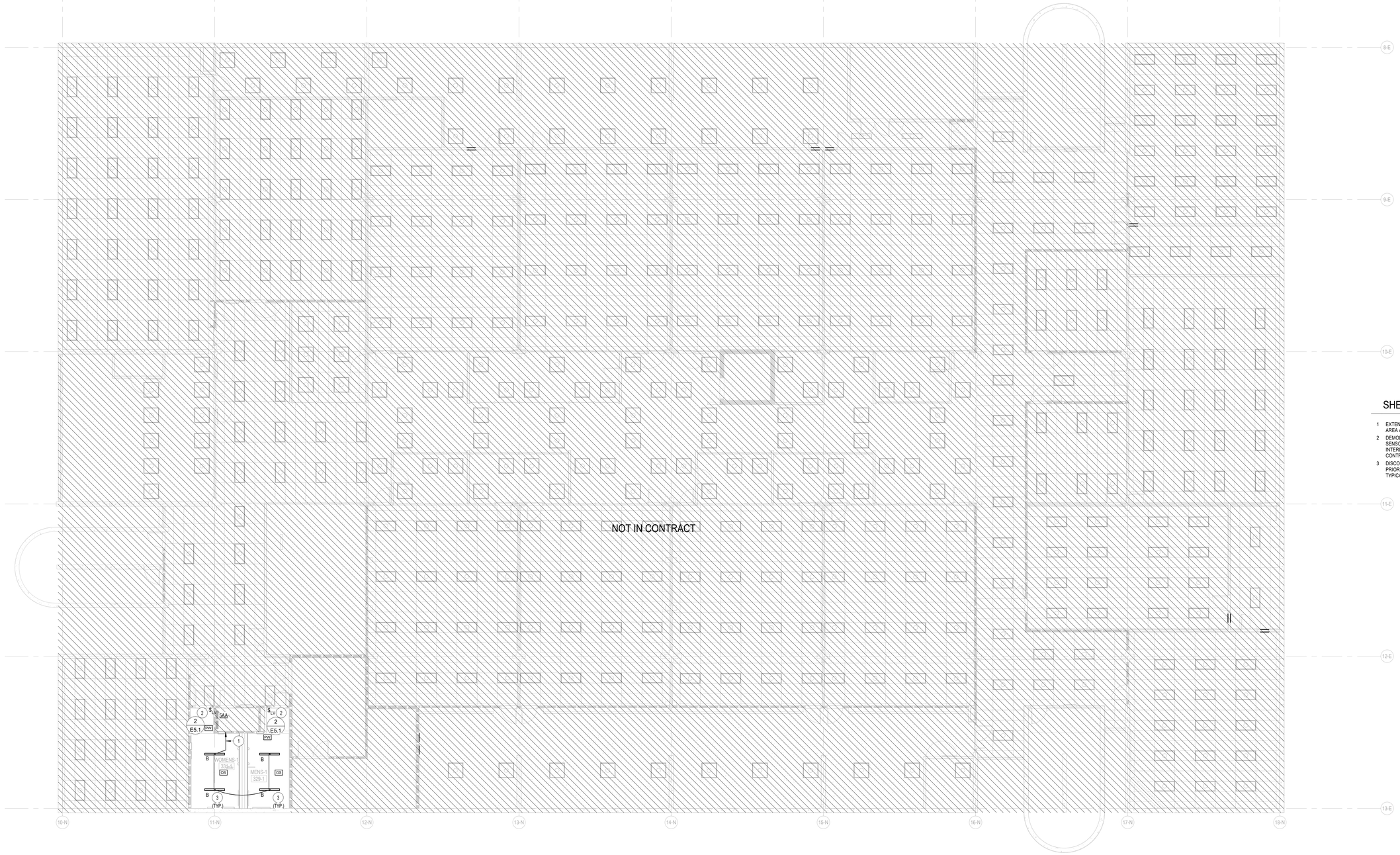

SHEET NOTES

1. EXTEND EXISTING BRANCH CIRCUIT SERVING LIGHTING IN THIS AREA AS SHOWN. TYP.
2. DEMOLISH AND REMOVE EXITING LIGHTING SWITCH/ MOTION SENSOR COMBO. REPLACE WITH NEW LEVITON ROCKER SWITCH. INTERLOCK NEW LIGHT FIXTURES WITH NEW LIGHTING CONTROLS AS SHOWN.
3. DISCONNECT AND DEMOLISH EXISTING LIGHTING FIXTURES PRIOR TO INSTALLATION OF NEW FIXTURES ARE SHOWN. TYPICAL.

1 / E1.2 OVERALL THIRD FLOOR LIGHTING PLAN

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

REGISTERED PROFESSIONAL ENGINEER SOOZBEH MEHROOY E-19355 12/31/22 ELECTRICAL STATE OF CALIFORNIA

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75-21204-02

OVERALL THIRD FLOOR LIGHTING PLAN

E1.2

AD003

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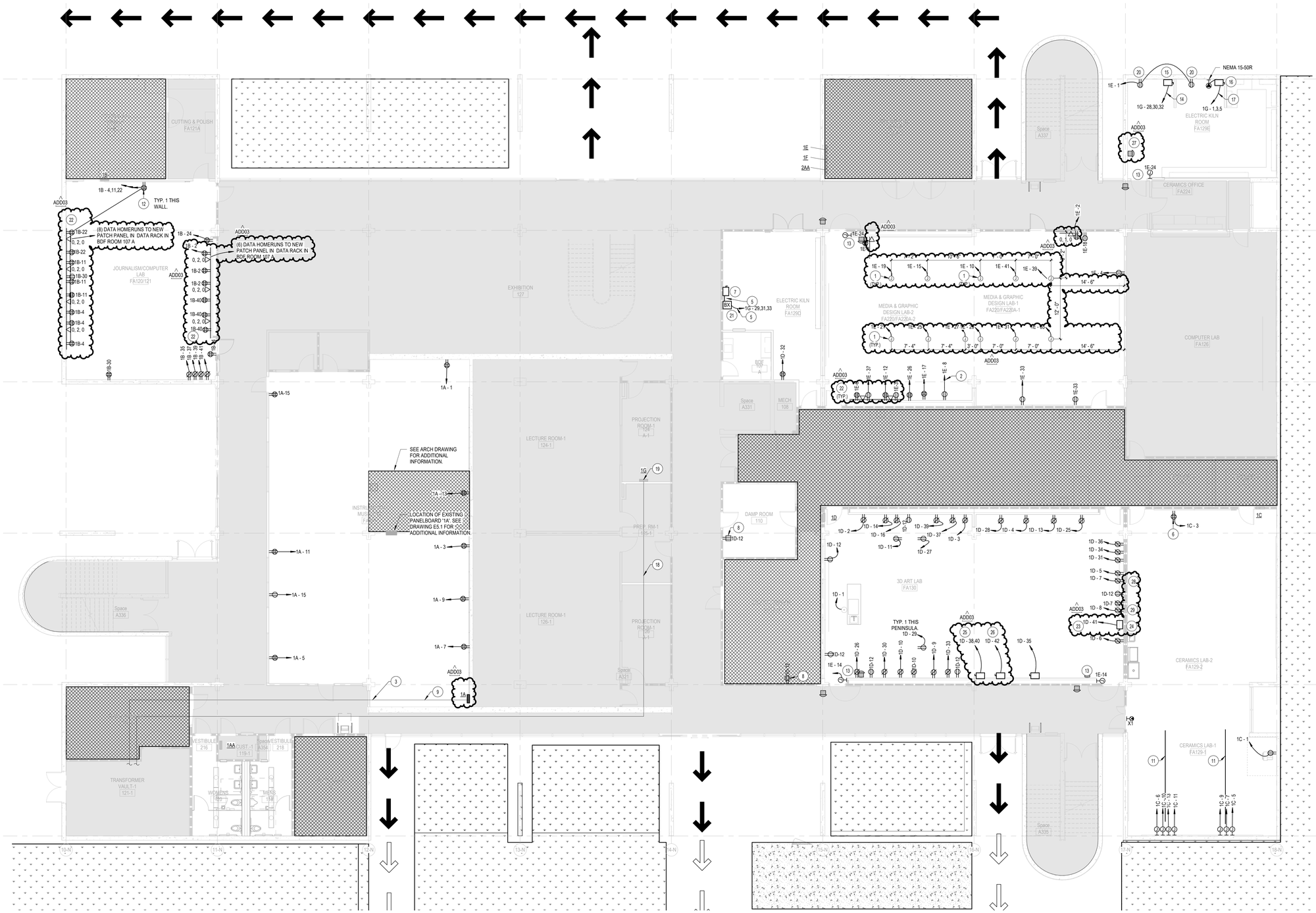

OVERALL FIRST FLOOR POWER PLAN

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

SHEET NOTES

ADD03

1. PROVIDE DEDICATED 20A BRANCH CIRCUIT IN SERVICE POLE RACEWAY FOR WORKSTATIONS. INCLUDE DEDICATED DATA HOMERUN FOR EACH WORKSTATION BACK TO DATA RACK IN BDF 107A.
2. PROVIDE DEDICATED BRANCH CIRCUIT. RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT TYPE.
3. 2-1/2"C., 4#4/0, #4 GND. ROUTE CONDUIT OVERHEAD.
5. 2"C., 3#250 KCMIL, 1#4 GND. CONFIRM VOLTAGE WITH NAMEPLATE AND MEASURE PRIOR TO CONNECTION.
6. EXTEND EXISTING BRANCH CIRCUIT TO NEW RECEPTACLE LOCATION AS SHOWN.
7. PROVIDE 250VAC, 3P. 250AF/200AT FUSED PER MANUFACTURER NAMEPLATE FOR ELECTRIC KILN.
8. LOCATE OUTLET AS SHOWN. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED. SEE ASSOCIATE PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
9. NEW PANELBOARD "1A". SEE PANELBOARD SCHEDULE SHEET E7.1.
11. SURFACE MOUNTED RACEWAY MOUNTED TO UNDERSIDE OF CENTER TABLE BETWEEN THROWING WHEELS.
12. PROVIDE NEW RECEPTACLE AS SHOWN AND EXTEND WIRING FROM EXISTING BRANCH CIRCUIT.
13. AUTOMATIC DOOR OPERATOR. PROVIDE POWER WIRING AND 1"C. FOR CONTROL WIRING TO PUSH PLATE. SEE ARCH DRAWINGS FOR ADDITIONAL INFORMATION.
14. 1-1/4"C., 3#4, #10 GND. CONFIRM VOLTAGE WITH NAMEPLATE AND MEASURE PRIOR TO CONNECTION.
15. PROVIDE 250VAC, 3P, 100AF/60AT FOR ELECTRIC KILN.
16. PROVIDE 250VAC, 3P, 100AF/45AT FOR ELECTRIC KILN.
17. 1"C., 3#6, 1#10 GND. CONFIRM VOLTAGE WITH NAMEPLATE AND MEASURE PRIOR TO CONNECTION.
18. DEMOLISH EXITING FEEDER AND CONDUIT. ROUTE NEW CONDUIT OVERHEAD. SEE DRAWING E5.1 FOR ADDITIONAL INFORMATION.
19. DEMOLISH EXISTING PANELBOARD AND DISCONNECT EXISTING BRANCH CIRCUITS. PROVIDE NEW PANELBOARD AS SHOWN IN DRAWING E5.1. RECONNECT AND REBALANCE EXISTING BRANCH CIRCUIT LOADS. SEE DRAWING E5.1 FOR ADDITIONAL INFORMATION. NEW PANELBOARD SHORT CIRCUIT CURRENT RATING SHALL BE COMPATIBLE WITH EXISTING SYSTEM.
20. PROVIDE NEW NEMA 5-20R FOR KILN EXHAUST VENT POWER OUTLET. USE EXISTING BRANCH CIRCUIT.
21. ACME BOOST TRANSFORMER T113076 FOR 208V-3PH TO 240V-3PH FOR EXISTING KILN.

ADD03

22. PROVIDE DEDICATED 20A BRANCH CIRCUIT FOR POWER AND DATA OUTLETS FOR WORKSTATIONS. RUN CABLES IN WIREMOLD 4000 SERIES RACEWAY WITH DIVIDER FITTING. SEE DETAIL 11/E6.1 FOR ADDITIONAL INFORMATION.
23. PROVIDE 40A, 120V OUTLET FOR PORTABLE FUME EXTRACTOR. COORDINATE LENGTH OF WIRING ON LOAD SIDE OF DISCONNECT SWITCH WITH OWNER FOR EQUIPMENT PORTABILITY. 1"C., 2#8, #10 GND.
24. PROVIDE 125VAC, 60A, FUSED PER MANUFACTURER RECOMMENDATION.
25. PROVIDE 25A, 208V OUTLET FOR PORTABLE DUST COLLECTOR. COORDINATE LENGTH OF WIRING ON LOAD SIDE OF DISCONNECT SWITCH WITH OWNER FOR EQUIPMENT PORTABILITY. 1"C., 2#10, #12 GND.
26. PROVIDE 40A, 120V OUTLET FOR PORTABLE DUST COLLECTOR. COORDINATE LENGTH OF WIRING ON LOAD SIDE OF DISCONNECT SWITCH WITH OWNER FOR EQUIPMENT PORTABILITY. 1"C., 2#8, #10 GND.
27. AUTOMATIC DOOR OPERATOR PUSH BUTTON. COORDINATE WITH ARCH DRAWINGS FOR EXACT LOCATIONS.
28. PROVIDE DEDICATED BRANCH CIRCUIT FOR FUME EXTRACTOR. RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT TYPE.
29. PROVIDE DEDICATED BRANCH CIRCUIT FOR MIG WELDER. RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT TYPE.

GENERAL NOTES

ADD03

1. COORDINATE INSTALLATION OF A NEW 48-PORT PATCH PANEL INSIDE EXISTING RACK.
2. NO MORE THAN (8) DATA PORTS ALLOWED ON A FACEPLATE.
3. DATA CONDUIT SIZE TO BE 1 1/4" MINIMUM. DATA OUTLET BACK BOX SIZE TO BE 4 11/16" X 4 11/16" X 2 1/8"D. USE TELECOMM SPECIFIC BACKBOXES, RANDL 55 OR DLR-APPROVED EQUAL.

REGISTERED PROFESSIONAL ENGINEER
SOOLBEH MEHROOM
E-19355
ELECTRICAL
12/31/22
STATE OF CALIFORNIA

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DSA APPROVAL

2/4/2022

Revisions

Add03	5/19/2022	ADD03

75-21204-02

OVERALL FIRST FLOOR POWER PLAN

E2.1

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_MEP_2020.rvt
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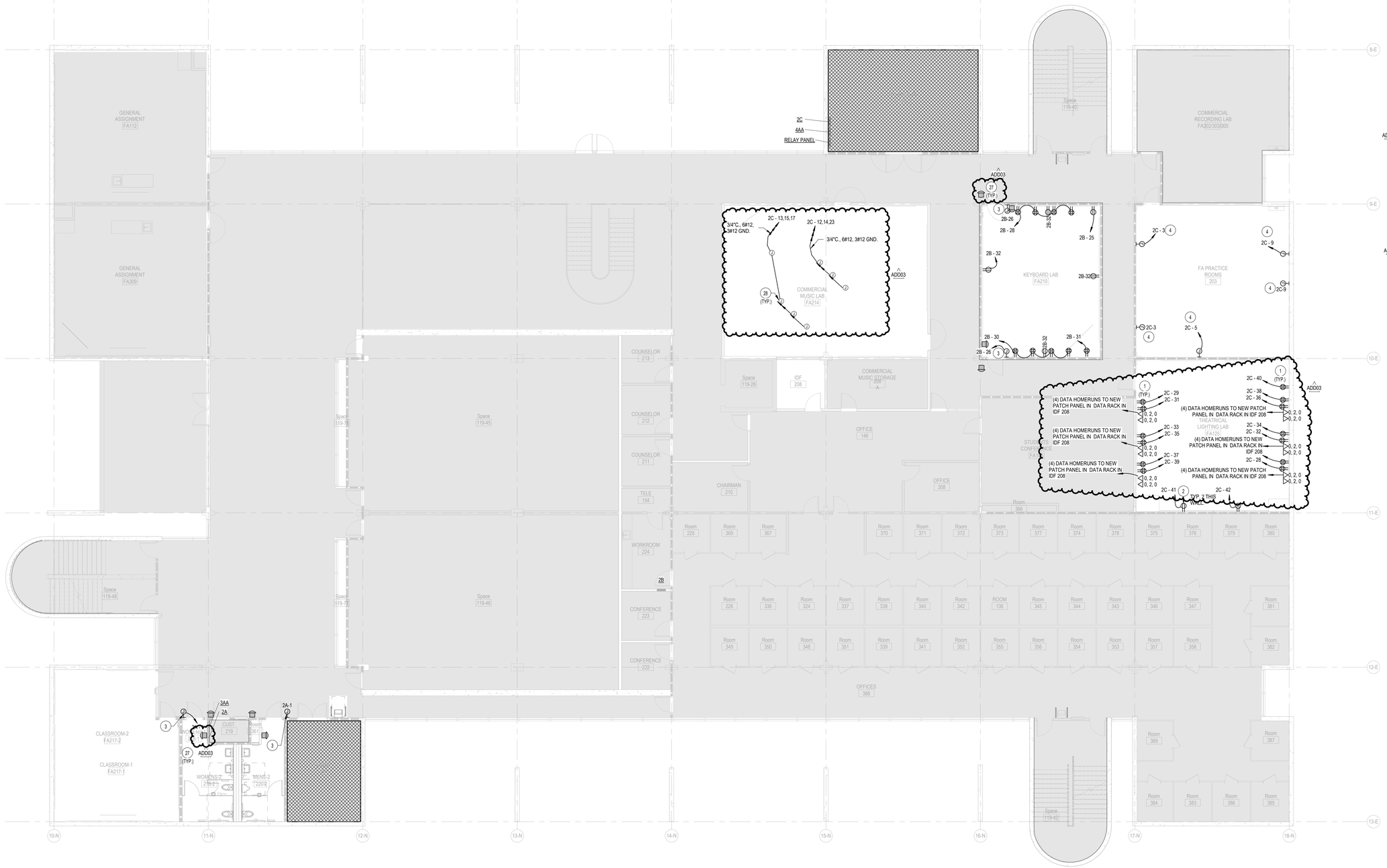

SHEET NOTES

ADD03

1. PROVIDE DEDICATED 20A BRANCH CIRCUIT FOR POWER AND DATA OUTLETS FOR WORKSTATIONS. RUN CABLES IN WIREMOLD 4000 SERIES RACEWAY WITH DIVIDER FITTING. SEE DETAIL 1/E5.1 FOR ADDITIONAL INFORMATION.
2. PROVIDE DEDICATED BRANCH CIRCUIT. RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT TYPE.
3. AUTOMATIC DOOR OPERATOR. PROVIDE POWER WIRING AND 1"C. FOR CONTROL WIRING TO PUSH PLATE. SEE ARCH DRAWINGS FOR ADDITIONAL INFORMATION.
4. UTILIZE EXISTING BRANCH CIRCUIT AS SHOWN. ADD OUTLET FOR AUTOMATIC DOOR OPERATOR PUSH BUTTON. COORDINATE WITH ARCH DRAWINGS FOR EXACT LOCATIONS.

27. PROVIDE DEDICATED 20A BRANCH CIRCUIT IN SERVICE POLE RACEWAY FOR MAX 3 WORKSTATIONS PER CIRCUIT. INCLUDE DEDICATED DATA HOMERUN FOR EACH WORKSTATION BACK TO DATA RACK IN IDF 208.

ADD03

GENERAL NOTES

1. COORDINATE INSTALLATION OF A NEW 48-PORT PATCH PANEL INSIDE EXISTING RACK.
2. NO MORE THAN (8) DATA PORTS ALLOWED ON A FACEPLATE.
3. DATA CONDUIT SIZE TO BE 1 1/4" MINIMUM. DATA OUTLET BACK BOX SIZE TO BE 4 11/16" X 4 11/16" X 2 1/8"D. USE TELECOMM SPECIFIC BACKBOXES, RANDL 55 OR DLR-APPROVED EQUAL.

ADD03

OVERALL SECOND FLOOR POWER PLAN

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

REGISTERED PROFESSIONAL ENGINEER SOOLBEH MEHROOM E-19355 12/31/22 ELECTRICAL STATE OF CALIFORNIA

DLR Group

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Cypress College Swing Space

9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL

2/4/2022

Revisions

Add02	4/29/2022	AD002
Add03	5/19/2022	AD003

75-21204-02

OVERALL SECOND FLOOR POWER PLAN

E2.2

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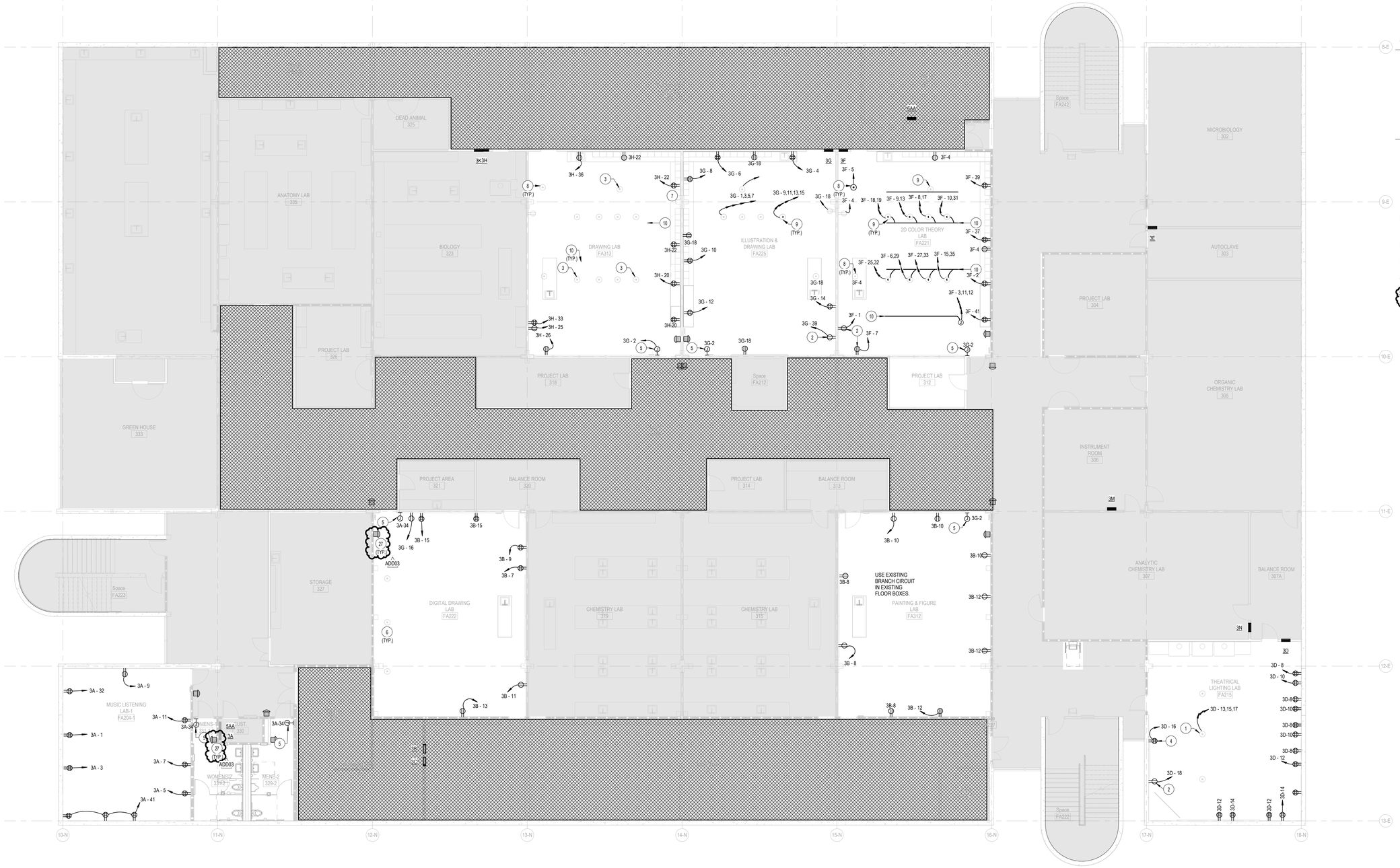

GENERAL NOTES

1. COORDINATE INSTALLATION OF A NEW 48-PORT PATCH PANEL INSIDE EXISTING RACK.
2. NO MORE THAN (6) DATA PORTS ALLOWED ON A FACEPLATE.
3. DATA CONDUIT SIZE TO BE 1 1/4" MINIMUM. DATA OUTLET BACK BOX SIZE TO BE 4 11/16" X 4 11/16" X 2 1/8"D. USE TELECOMM SPECIFIC BACKBOXES. RANDL 55 OR DLR-APPROVED EQUAL.

SHEET NOTES

1. UTILIZE EXISTING BRANCH CIRCUITS IN EXITING FLOOR BOXES.
2. PROVIDE DEDICATED BRANCH CIRCUIT. RECEPTACLE CONFIGURATION TO MATCH EQUIPMENT TYPE.
3. EXISTING FLOOR BOX. UTILIZE EXISTING BOXES AND BRANCH CIRCUITS AND EXTEND TO STUDENT TABLES AS REQUIRED.
4. PROVIDE DEDICATED 20A BRANCH CIRCUIT IN SURFACE MOUNTED RACEWAY FOR WORKSTATIONS.
5. AUTOMATIC DOOR OPERATOR. PROVIDE POWER WIRING AND 1"C. FOR CONTROL WIRING TO PUSH PLATE. SEE ARCH DRAWINGS FOR ADDITIONAL INFORMATION.
6. EXISTING FLOOR BOX. UTILIZE EXISTING BOXES AND BRANCH CIRCUITS.
7. UTILIZE EXISTING NEARBY BRANCH CIRCUITS. SEE PANEL SCHEDULE 3H.
8. EXISTING FLOOR BOX. UTILIZE EXISTING BOXES AND RACEWAY AND EXTEND EXISTING BRANCH CIRCUITS AS SHOWN.
9. EXISTING FLOOR BOX. UTILIZE EXISTING BOXES AND RACEWAY AND EXTEND EXISTING BRANCH CIRCUITS AS SHOWN TO SURFACE MOUNTED RACEWAY.
10. SURFACE MOUNTED METAL RACEWAY WITH OUTLETS FOR DRAWING PURPOSES.
27. AUTOMATIC DOOR OPERATOR PUSH BUTTON. COORDINATE WITH ARCH DRAWINGS FOR EXACT LOCATIONS.

ADD03

REGISTERED PROFESSIONAL ENGINEER
SOOLREH MEHROOSI
E-19355
12/31/22
ELECTRICAL
STATE OF CALIFORNIA

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Cypress College Swing Space

9200 Valley View St. Cypress CA, 90630

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DSA APPROVAL

2/4/2022

Revisions

Add03	5/19/2022	ADD03

75-21204-02

OVERALL THIRD FLOOR POWER PLAN

E2.3

OVERALL THIRD FLOOR POWER PLAN

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

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_MEP_2020.rvt
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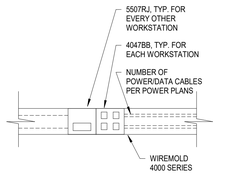
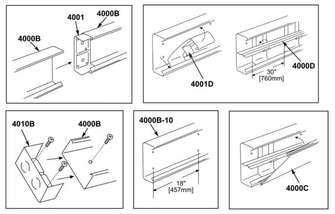
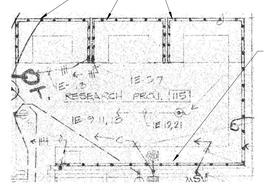


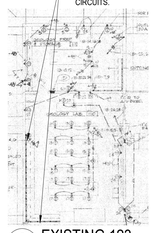


11 / E6.1 DUAL CHANNEL DETAIL
NO SCALE

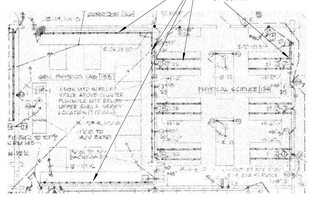
ADD03



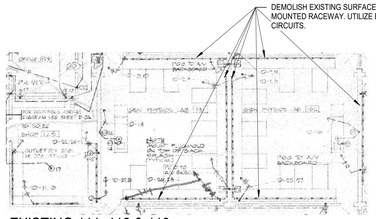
10 / E6.1 EXISTING 102
NO SCALE



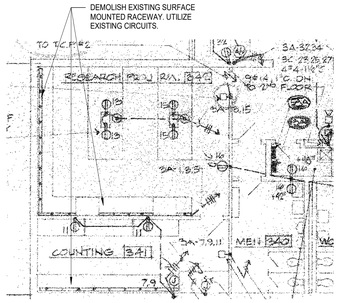
7 / E6.1 EXISTING 123
NO SCALE



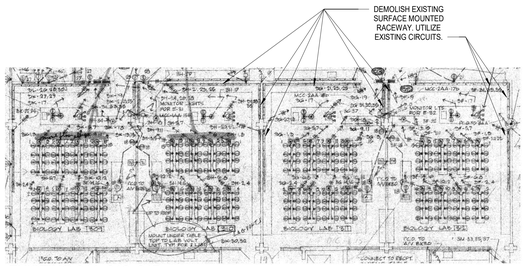
3 / E6.1 EXISTING 105 & 106 REFERENCE ONLY
NO SCALE



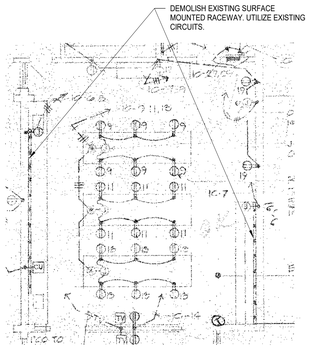
2 / E6.1 EXISTING 111, 112 & 113
NO SCALE



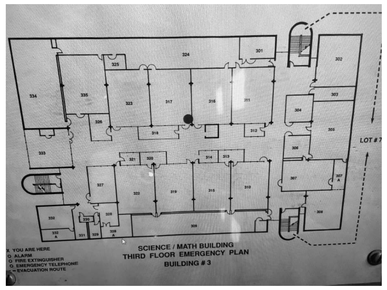
9 / E6.1 EXISTING 332
NO SCALE



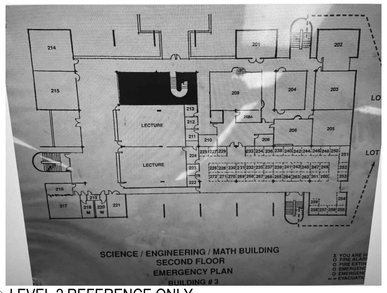
6 / E6.1 EXISTING 311, 316, 317
NO SCALE



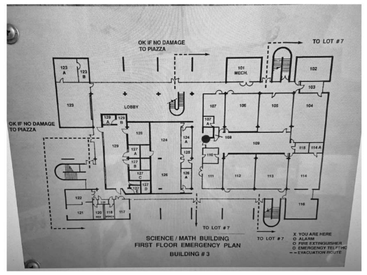
8 / E6.1 EXISTING 205
NO SCALE



4 / E6.1 LEVEL 3 REFERENCE ONLY
NO SCALE



5 / E6.1 LEVEL 2 REFERENCE ONLY
NO SCALE



1 / E6.1 LEVEL 1 REFERENCE ONLY
NO SCALE

REGISTERED PROFESSIONAL ENGINEER
SOOLBEH MEHROOM
E-19355
12/31/22
ELECTRICAL
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Cypress College Swing Space
9200 Valley View St. Cypress CA, 90630

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DSA APPROVAL

2/4/2022
Revisions

Add03	5/19/2022	AD003

75-21204-02

ELECTRICAL DETAILS

E6.1

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_MEP_2020.rvt
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PANEL: 3A

LOCATION: CUST. 330 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN) WORKSTATIONS MUSIC LISTENIN...	20	1	O	1,200	0					--	1	20	EXISTING LOAD	2
3	(EN) ISOLATION OUTLET MUSIC...	20	1	O			1,200	0			--	1	20	EXISTING LOAD	4
5	(EN) ISOLATION OUTLET MUSIC...	20	1	O					400	0	--	1	20	EXISTING LOAD	6
7	(EN) PRINTER	20	1	O	360	0					--	1	20	EXISTING LOAD	8
9	(EN) CONV. OUTLET	20	1	R			180	0			--	1	20	EXISTING LOAD	10
11	(EN) ISOLATION OUTLET MUSIC...	20	1	O					1,200	0	--	1	20	EXISTING LOAD	12
13	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	14
15	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	24
25	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	26
27	EXISTING LOAD	20	2	--			0	0			--	1	20	EXISTING LOAD	28
29									0	0	--	1	20	EXISTING LOAD	30
31	EXISTING LOAD	20	1	--	0	1,200					O	1	20	(EN) WORKSTATIONS MUSIC LISTENIN...	32
33	EXISTING LOAD	20	1	--			0	750			M	1	20	(EN) POWER ASSIST DOORS	34
35									0	0	--	1	20	EXISTING LOAD	36
37	EXISTING LOAD	20	3	--	0	0					--	1	20	EXISTING LOAD	38
39							0	0			--	2	20	EXISTING LOAD	40
41	(EN) WORKSTATIONS MUSIC LISTENIN...	20	1	O					1,200	0					42
				TOTA...	2760 VA		2130 VA		2800 VA						
				TOTA...	23.8 A		17.8 A		24.1 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	180 VA	100.0...	180 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 8 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 8 kVA
M	LARGEST...	750 VA	108.3...	813 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 21.3 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 21.5 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	6760 VA	100.0...	6760 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 2B

LOCATION: WORKROOM 224 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	2
3	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	4
5	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	6
7	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	8
9	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	10
11	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	12
13	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	14
15	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	24
25	(N)MOBILE KEYBOARD KEYBOARD LAB...	20	1	R	180	500					M	1	20	(N)POWER ASSIST DOORS	26
27	SPACE	--	--	--			0	1,440			R	1	20	(N) CONV. OUTLET KEYBOARD LAB	28
29	SPACE	--	--	--					0	1,440	R	1	20	(N)CONV. OUTLET KEYBOARD LAB	30
31	(N)CONV. OUTLETS KEYBOARD LAB	20	1	R	360	720					R	1	20	(N)CONV. OUTLETS KEYBOARD LAB	32
33	(E)SPACE	--	--	--			0	0			--	--	--	(E)SPACE	34
35	(E)SPACE	--	--	--					0	0	--	--	--	(E)SPACE	36
37	(E)SPACE	--	--	--	0	0					--	--	--	(E)SPACE	38
39	(E)SPACE	--	--	--			0	0			--	--	--	(E)SPACE	40
41	(E)SPACE	--	--	--					0	0	--	--	--	(E)SPACE	42
				TOTA...	1760 VA		1440 VA		1440 VA						
				TOTA...	14.7 A		12.0 A		12.0 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	4140 VA	100.0...	4140 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 5 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 5 kVA
M	LARGEST...	500 VA	112.5...	563 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 12.9 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 13.1 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	0 VA	0.00%	0 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 2AA

LOCATION: MECHANICAL RM. 273 **VOLTS:** 480Y/277 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN) LIGHTING MEDIA & GRAPHIC...	20	1	L	315	50					L	1	20	(EN) EXIT LIGHTS	2
3	(EN) LIGHTING MEDIA & GRAPHIC...	20	1	L			315	0			--	1	20	EXISTING LOAD	4
5	(EN) LIGHTING MEDIA & GRAPHIC...	20	1	L					315	0	--	1	20	EXISTING LOAD	6
7	(EN) LIGHTING 3D PRINTER 3D ART	20	1	L	315	473					L	1	20	(EN) LIGHTING CERAMICS LAB FA129	8
9	(EN) LIGHTING 3D PRINTER 3D ART	20	1	L			315	0			--	1	20	EXISTING LOAD	10
11	(EN) LIGHTING 3D PRINTER 3D ART	20	1	L					315	126	L	1	20	(EN) LIGHTING CERAMICS LAB FA129	12
13	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	14
15	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0						24
25					0	0					--	--	--	(E)SPACE	26
27	EXISTING LOAD	15	3	--			0	0			--	--	--	(E)SPACE	28
29									0	0	--	--	--	(E)SPACE	30
31	SPACE	--	--	--	0	0					--	--	--	(E)SPACE	32
33	SPACE	--	--	--			0	0			--	--	--	(E)SPACE	34
35	SPACE	--	--	--					0	0	--	--	--	(E)SPACE	36
37	SPACE	--	--	--	0	0					--	--	--	(E)SPACE	38
39	SPACE	--	--	--			0	0			--	--	--	(E)SPACE	40
41	SPACE	--	--	--					0	0	--	--	--	(E)SPACE	42
				TOTA...	1153 VA		630 VA		756 VA						
				TOTA...	4.2 A		2.3 A		2.8 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	2539 VA	125.0...	3173 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 3 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 3 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 3.1 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 3.8 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	0 VA	0.00%	0 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

GENERAL NOTES:

1. FOR THE FIRE ALARM AND SIGNALING SYSTEM, PROVIDE FOR THE FOLLOWING WHERE ANY OF THESE REQUIREMENTS DOES NOT EXIST:
   - A. LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT.
   - B. THE SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE MARKED TO IDENTIFY THE SYSTEM OR EQUIPMENT THAT IT SERVES.
   - C. THE CIRCUIT DISCONNECTING MEANS OR CIRCUIT BREAKER SHALL HAVE A RED MARKING.
   - D. THE RED MARKING SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICES OR OBSCURE THE MANUFACTURERS MARKINGS.
   - E. THE CIRCUIT DISCONNECTING MEANS SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
   - F. THE BRANCH CIRCUIT SHALL BE A DEDICATED CIRCUIT SERVING ONLY THE RELATED FIRE ALARM AND SIGNALING SYSTEM.
   - G. THE BRANCH CIRCUITS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.

PANEL: 3H

LOCATION: BIOLOGY 323 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O	800	800					O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	2
3	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O			800	800			O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	4
5	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O					800	0	--	1	20	(EN) SPARE	6
7	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O	800	800					O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	8
9	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O			800	0			--	1	20	(EN) SPARE	10
11	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O					800	800	O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	12
13	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O	800	800					O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	14
15	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O			800	800			O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	(E)SPARE	20	1	--	0	720					R	1	20	(EN)CONV. OUTLETS DRAWING LAB	20
21	(EN) EXISTING FLOOR BOXES DRAWIN...	20	1	O			800	900			R	1	20	(EN)CONV. OUTLETS DRAWING LAB	22
23	(EN)SPARE	20	1	--					0	800	O	1	20	(EN) EXISTING FLOOR BOXES DRAWIN...	24
25	(EN)CONV. OUTLETS DRAWING LAB	20	1	O	500	500					O	1	20	(EN)CONV. OUTLETS DRAWING LAB	26
27	EXISTING LOAD	20	1	--			0	500			O	1	20	(EN) EXISITING FLOOR BOX	28
29	EXISTING LOAD	20	1	--					0	0	--	2	20	EXISTING LOAD	30
31	EXISTING LOAD	20	1	--	0	0									32
33	(EN) CONV. OUTLETS DRAWING LAB	20	1	R			360	0			--	1	20	EXISTING LOAD	34
35	(E)SPARE	20	1	--					0	1,200	R	1	20	MICROWAVE DRAWING LAB	36
37					0	0									38
39	EXISTING LOAD	20	3	--			0	0			--	3	20	EXISTING LOAD	40
41									0	0					42
				TOTA...	6520 VA		6560 VA		4400 VA						
				TOTA...	57.1 A		57.4 A		36.7 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	3180 VA	100.0...	3180 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 17 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 17 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 48.5 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 48.5 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	14300 VA	100.0...	14300 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 2C

LOCATION: MECHANICAL 201 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

ADD03

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	2
3	(EN)SOUNDBOOTHS CLASSROOM 203	20	1	M			600	0			--	1	20	EXISTING LOAD	4
5	(EN)SOUNDBOOTHS CLASSROOM 203	20	1	M					300	0	--	1	20	EXISTING LOAD	6
7	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	8
9	(EN)SOUNDBOOTHS CLASSROOM 203	20	1	M			600	0			--	1	20	EXISTING LOAD	10
11	EXISTING LOAD	20	1	--					0	1,200	O	1	20	(EN)WORKSTATIONS COMMERCIAL...	12
13	(EN)WORKSTATIONS COMMERCIAL...	20	1	O	1,200	800					O	1	20	(EN)WORKSTATIONS COMMERCIAL...	14
15	(EN)WORKSTATIONS COMMERCIAL...	20	1	O			1,200	0			--	1	20	EXISTING LOAD	16
17	(EN)WORKSTATIONS COMMERCIAL...	20	1	O					1,200	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	(N)WORKSTATIONS COMMERCIAL...	20	1	O					1,200	0	--	1	20	EXISTING LOAD	24
25	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	26
27	EXISTING LOAD	20	1	--			0	800			O	1	20	(N)WORKSTATIONS THEATRICAL LTG....	28
29	(N)WORKSTATIONS THEATRICAL LTG....	20	1	O					1,200	1,200	O	1	20	(N)WORKSTATIONS THEATRICAL LTG....	30
31	(N)WORKSTATIONS THEATRICAL LTG....	20	1	O	400	800					O	1	20	(N)WORKSTATIONS THEATRICAL LTG....	32
33	(N)WORKSTATIONS THEATRICAL LTG....	20	1	O			1,200	1,200			O	1	20	(N)WORKSTATIONS THEATRICAL LTG....	34
35	(N)WORKSTATIONS THEATRICAL LTG....	20	1	O					800	400	O	1	20	(N)WORKSTATIONS THEATRICAL LTG....	36
37	(N)WORKSTATIONS THEATRICAL LTG....	20	1	O	1,200	1,200					O	1	20	(N)WORKSTATIONS THEATRICAL LTG....	38
39	(N)WORKSTATIONS THEATRICAL LTG....	20	1	O			800	1,200			O	1	20	(N)INSTRUCTOR WORKSTATION...	40
41	(N)PLOTTER THEATRICAL LTG. LAB	20	1	O					1,500	1,500	O	1	20	(N)PLOTTER THEATRICAL LTG. LAB	42
				TOTA...	5600 VA		7600 VA		10500 VA						
				TOTA...	46.7 A		65.9 A		90.1 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 24 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 24 kVA
M	LARGEST...	1500 VA	105.0...	1575 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 65.8 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 66.0 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	22200 VA	100.0...	22200 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 1E

LOCATION: MECHANICAL RM. 273 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN) KILN EXHAUST FANS RESEARCH...	20	1	R	360	300					O	1	20	(EN)SMALL PRINTER, SCANNER MEDIA ...	2
3	(EN)SPARE	20	1	--			0	1,500			O	1	20	(EN)SURE COLOR MEDIA & GRAPHICS	4
5	(EN)SPARE	20	1	--					0	800	O	1	20	(EN)TEACHER/WORKSTATIONS MEDIA ...	6
7	(EN)SPARE	20	1	--	0	1,500					O	1	20	(EN)LARGE FORMAT PRINTER MEDIA &...	8
9	(EN)SPARE	20	1	--			0	1,200			O	1	20	(EN)WORKSTATIONS MEDIA &...	10
11	(EN)SPARE	20	1	--					0	800	O	1	20	(EN)WORKSTATIONS MEDIA &...	12
13	EXISTING LOAD	20	1	--	0	500					M	1	20	(EN) POWER ASSIST DOORS	14
15	(EN)WORKSTATIONS MEDIA &...	20	1	O			1,200	0			--	1	20	(EN)SPARE	16
17	(EN)TABLET CHARGING CART MEDIA &...	20	1	O					1,500	300	O	1	20	(EN)WORK TABLE PRINTERS MEDIA &...	18
19	(EN)WORKSTATIONS MEDIA &...	20	1	O	1,200	0					--	1	20	EXISTING LOAD	20
21	(EN)WORKSTATIONS MEDIA &...	20	1	O			1,200	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	500	M	1	20	(EN) AUTOMATIC DOOR OPERATORS	24
25	(EN)WORKSTATIONS MEDIA &...	20	1	O	1,200	1,500					O	1	20	(EN)LAPTOP CHARGING CART MEDIA &...	26
27	(EN)WORKSTATIONS MEDIA &...	20	1	O			1,200	0			--	1	20	(EN)SPARE	28
29	(EN)WORKSTATIONS MEDIA &...	20	1	O					1,200	0	--	1	20	(EN)SPARE	30
31	(EN)WORKSTATIONS MEDIA &...	20	1	O	1,200	0					--	1	20	EXISTING LOAD	32
33	(EN) CONV. OUTLETS MEDIA &...	20	1	O			360	0			--	1	20	(E)SPARE	34
35	(EN)WORKSTATIONS MEDIA &...	20	1	O					1,200	0	--	1	20	EXISTING LOAD	36
37	(N) 3D PRINTER, SMALL PRINTER MEDI...	20	1	R	360	0					--	1	20	EXISTING LOAD	38
39	(N)WORKSTATIONS MEDIA & GRAPHICS	20	1	O			1,200	0			--	1	20	EXISTING LOAD	40
41	(N)WORKSTATIONS MEDIA & GRAPHICS	20	1	O					1,200	0	--	1	20	EXISTING LOAD	42
				TOTA...	8120 VA		7860 VA		7500 VA						
				TOTA...	68.1 A		66.0 A		62.5 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	720 VA	100.0...	720 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 23 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 24 kVA
M	LARGEST...	1000 VA	106.2...	1063 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 65.2 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 65.3 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	21760 VA	100.0...	21760 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 3D

LOCATION: THEATRICAL LIGHTING LAB... **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1					0	0									2
3	EXISTING LOAD	20	3	--			0	0			--	3	20	EXISTING LOAD	4
5									0	0					6
7					0	1,440					R	1	20	(EN)SCANNER THEATRICAL LIGHTING...	8
9	EXISTING LOAD	20	3	--			0	1,200			O	1	20	(EN) WORKSTATIONS THEATRICAL...	10
11									0	1,200	O	1	20	(EN) WORKSTATIONS THEATRICAL...	12
13	(EN) EXISITING FLOOR BOX	20	1	R	360	720					R	1	20	(EN)SCANNER THEATRICAL LIGHTING...	14
15	(EN) EXISITING FLOOR BOX	20	1	R			360	400			O	1	20	(EN) TEACHER WORKSTATION...	16
17	(EN) EXISITING FLOOR BOX	20	1	R					360	1,200	O	1	20	(EN) PLOTTER THEATRICAL LIGHTING...	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	24
25	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	26
27	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	28
29	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	30
31	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	32
33	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	34
35	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	36
37	(E)SPACE	--	--	--	0	0					--	--	--	(E)SPACE	38
39	(E)SPACE	--	--	--			0	0			--	--	--	(E)SPACE	40
41	(E)SPACE	--	--	--					0	0	--	--	--	(E)SPACE	42
				TOTA...	2520 VA		1960 VA		2760 VA						
				TOTA...	21.7 A		16.3 A		23.7 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	3240 VA	100.0...	3240 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 7 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 7 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 20.1 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 20.1 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	4000 VA	100.0...	4000 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 1A

LOCATION: INSTRUMENTAL MUSIC LAB... **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: 200/3 **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	CONV. OUTLET INSTR. MUSIC LAB	20	1	R	360										2
3	CONV. OUTLET INSTR. MUSIC LAB	20	1	R			360	0			--	1	20	SPARE	4
5	DIGITAL PIANO INSTRUMENTAL MUSIC...	20	1	O					500	0	--	1	20	SPARE	6
7	CONV. OUTLET INSTR. MUSIC LAB	20	1	R	360	0					--	1	20	SPARE	8
9	CONV. OUTLET INSTR. MUSIC LAB	20	1	R			360	0			--	1	20	SPARE	10
11	MOBILE SMART BOARD INSTRUMENTA...	20	1	O					500	0	--	1	20	SPARE	12
13	CONV. OUTLET INSTR. MUSIC LAB	20	1	R	360	0					--	1	20	SPARE	14
15	CONV. OUTLET INSTR. MUSIC LAB	20	1	R			540	0			--	1	20	SPARE	16
17	SPARE	20	1	--					0	0	--	1	20	SPARE	18
19	SPARE	20	1	--	0	0					--	1	20	SPARE	20
21	SPARE	20	1	--			0	0			--	1	20	SPARE	22
23	SPARE	20	1	--					0	0	--	1	20	SPARE	24
25	SPARE	20	1	--	0	0					--	1	20	SPARE	26
27	SPARE	20	1	--			0	0			--	1	20	SPARE	28
29	SPARE	20	1	--					0	0	--	1	20	SPARE	30
31	SPARE	20	1	--	0	0					--	1	20	SPARE	32
33	SPARE	20	1	--			0	0			--	1	20	SPARE	34
35	SPARE	20	1	--					0	0	--	1	20	SPARE	36
37					0	0					--	1	20	SPARE	38
39	EXISTING LOAD	100	3	--			0	0			--	1	20	SPARE	40
41									0	0	--	1	20	SPARE	42
				TOTA...	1080 VA		1260 VA		1000 VA						
				TOTA...	9.1 A		10.6 A		8.3 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	2340 VA	100.0...	2340 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 3 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 3 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 9.3 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 9.3 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	1000 VA	100.0...	1000 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 1C

LOCATION: ENGINEERING MATERIALS... **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN)SLIP MIXER CERAMICS LAB	20	1	O	900										2
3	(EN)MOBILE COMPUTER CART...	20	1	O			1,500	0			--	1	20	(E)SPARE	4
5	(EN)THROW WHEELS CERAMICS LAB	20	1	M					1,050	1,050	M	1	20	(EN)THROW WHEELS CERAMICS LAB	6
7	(EN)THROW WHEELS CERAMICS LAB	20	1	M	1,050										8
9	(EN)THROW WHEELS CERAMICS LAB	20	1	M			1,050	1,050			M	1	20	(EN)THROW WHEELS CERAMICS LAB	10
11	(EN)THROW WHEELS CERAMICS LAB	20	1	M					1,050	0	--	1	20	(E)SPARE	12
13	(EN)THROW WHEELS CERAMICS LAB	20	1	M	1,050	0					--	1	20	EXISTING LOAD	14
15	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0									20
21	(E)SPARE	20	1	--			0	0			--	3	20	(E)SPARE	22
23	(E)SPARE	20	1	--					0	0					24
25	(E)SPARE	20	1	--	0	0									26
27	EXISTING LOAD	20	2	--			0	0			--	3	20	(E)SPARE	28
29									0	0					30
31	(E)SPACE	--	--	--	0	0					--	--	--	(E)SPACE	32
33	(E)SPACE	--	--	--			0	0			--	--	--	(E)SPACE	34
35	(E)SPACE	--	--	--					0	0	--	--	--	(E)SPACE	36
37	(E)SPACE	--	--	--	0	0					--	--	--	(E)SPACE	38
39	(E)SPACE	--	--	--			0	0			--	--	--	(E)SPACE	40
41	(E)SPACE	--	--	--					0	0	--	--	--	(E)SPACE	42
				TOTA...	3000 VA		3600 VA		3150 VA						
				TOTA...	25.0 A		30.2 A		26.4 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	CONNECTED LOAD: 10 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	ESTIMATED DEMAND: 10 kVA
M	LARGEST...	7350 VA	103.5...	7613 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	CONNECTED CURRENT: 27.1 A
C	MOTOR	0 VA	0.00%	0 VA			EMD CURRENT: 27.8 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	2400 VA	100.0...	2400 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

3A	2B	2AA
3H	2C	1E
3D	1A	1C

REGISTERED PROFESSIONAL ENGINEER ROOZBEH MEHRKISH E-19355 12/31/22 ELECTRICAL STATE OF CALIFORNIA

DLR Group
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Cypress College Swing Space
9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL
2/4/2022
Revisions

Add03	5/19/2022	ADD03

75-21204-02

ELECTRICAL SCHEDULES

E7.1

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PANEL: 1B

LOCATION: GEOLOGY LAB 123 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD	20	1	--	0	1,200					O	1	20	(EN)WORKSTATIONS JOURNALISM	2
3	EXISTING LOAD	20	1	--			0	1,200			O	1	20	(EN)WORKSTATIONS JOURNALISM	4
5	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	6
7	EXISTING LOAD	20	1	--	0	0					--	1	20	(E) SPARE	8
9	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	10
11	(EN)WORKSTATIONS JOURNALISM	20	1	O					1,200	0	--	1	20	EXISTING LOAD	12
13	EXISTING LOAD	20	1	--	0	0									14
15	EXISTING LOAD	20	1	--			0	0			--	3	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0					18
19	(E) SPARE	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	(E) SPARE	20	1	--			0	1,200			O	1	20	(EN)WORKSTATIONS JOURNALISM	22
23	(E) SPARE	20	1	--					0	720	R	1	20	(EN)CONV.QUAD OUTLETS	24
25	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	26
27	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	28
29	(E) SPARE	20	1	--					0	540	R; O	1	20	(EN)CONV. RECEPT. JOURNALISM	30
31	(E) SPARE	20	1	--	0										32
33	(E) SPARE	20	1	--			0	0			--	1	20	(E) SPARE	34
35	(EN)MICROWAVE JOURNALISM	20	1	O					1,200	0	--	1	20	(E) SPARE	36
37	(EN)COFFEE JOURNALISM	20	1	O	1,200	0					--	1	20	(E) SPARE	38
39	(EN)TOASTER JOURNALISM	20	1	O			1,200	1,200			O	1	20	(EN)CONTROL DESK JOURNALISM	40
41	(EN)WATER DISPENSER JOURNALISM	20	1	O					1,200						42
				TOTA...	2400 VA		4800 VA		4860 VA						
				TOTA...	20.0 A		43.1 A		43.6 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	1080 VA	100.0...	1080 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 12 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 12 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 33.5 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 33.5 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	10980 VA	100.0...	10980 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD

MLO

PANEL: 1G

LOCATION: PROJECTION ROOM-2 124 A-2 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 400.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1					4,314	0					--	1	20	EXISTING LOAD	2
3	(EN)ELECTRIC KILN KM-1027 ROOM 118	50	3	R; O			4,314	0			--	1	20	EXISTING LOAD	4
5									4,314	0	--	1	20	EXISTING LOAD	6
7	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	8
9	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	10
11	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	12
13	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	14
15	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	(E) SPARE	20	1	--					0	0	--	1	20	EXISTING LOAD	24
25	EXISTING LOAD	20	2	--	0	0					--	1	20	EXISTING LOAD	26
27							0	7,208							28
29									12,353	7,208	O	3	70	(N) ELECTRIC KILN KM-1231 ROOM 118	30
31	(N)ELECTRIC KILN EL-3048 ROOM 107	225	3	O	12,353	7,208									32
33							12,353	0			--	1	20	EXISTING LOAD	34
35	(E) SPARE	20	1	--					0	0	--	1	20	EXISTING LOAD	36
37	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	38
39	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	40
41	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	42
				TOTA...	23875 VA		23875 VA		23875 VA						
				TOTA...	199.0 A		199.0 A		199.0 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 72 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 72 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 198.8 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 198.8 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	71625 VA	100.0...	71625 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 3B

LOCATION: BOILER ROOM 328 A **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	2
3	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	4
5	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	6
7	(EN) INK PRESS TABLE DIGITAL...	20	1	R	360	540					O	1	20	(EN) CONV. OUTLET PAINTING & FIGUR...	8
9	(EN) INK PRESS DIGITAL DRAWING	20	1	R			360	540			O	1	20	(EN) CONV. OUTLET PAINTING & FIGUR...	10
11	(EN) COPY/PRINT DIGITAL DRAWING	20	1	O					180	540	O	1	20	(EN) CONV. OUTLET PAINTING & FIGUR...	12
13	(EN) LIGHT TABLE DIGITAL DRAWING	20	1	O	180	0					--	1	20	EXISTING LOAD	14
15	(EN) CONV. OUTELTS DIGITAL DRAWING	20	1	R			720	0			--	1	20	EXISTING LOAD	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	24
25	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	26
27	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	28
29	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	30
31	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	32
33	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	34
35	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	36
37	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	38
39	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	40
41	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	42
				TOTA...	1080 VA		1620 VA		720 VA						
				TOTA...	9.5 A		14.0 A		6.0 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	1440 VA	100.0...	1440 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 3 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 3 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 9.5 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 9.5 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	1980 VA	100.0...	1980 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN EXISTING CLASSROOM 322. SEE SHEET E6.1 FOR REFERENCES.

GENERAL NOTES:
1. FOR THE FIRE ALARM AND SIGNALING SYSTEM, PROVIDE FOR THE FOLLOWING WHERE ANY OF THESE REQUIREMENTS DOES NOT EXIST:
   A. LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT.
   B. THE SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE MARKED TO IDENTIFY THE SYSTEM OR EQUIPMENT THAT IT SERVES.
   C. THE CIRCUIT DISCONNECTING MEANS OR CIRCUIT BREAKER SHALL HAVE A RED MARKING.
   D. THE RED MARKING SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICES OR OBSCURE THE MANUFACTURERS MARKINGS.
   E. THE CIRCUIT DISCONNECTING MEANS SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
   F. THE BRANCH CIRCUIT SHALL BE A DEDICATED CIRCUIT SERVING ONLY THE RELATED FIRE ALARM AND SIGNALING SYSTEM.
   G. THE BRANCH CIRCUITS SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE.

PANEL: 1D

LOCATION: GEN. PHYSICS LAB 112 **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN) FLOOR BOX GEN. PHYSICS LAB 112	20	1	Other	0	500					O	1	20	(EN) 3D PRINTER 3D ART	2
3	(EN) TOASTER 3D ART	20	1	O			1,000	1,200			O	1	20	(EN) BAND SAW 3D ART	4
5	(EN) MIG WELDER 130 3D ART	20	1	O					1,920	1,920	O	1	20	(EN) ROLLER MILL 3D ART	6
7	(EN) FUME EXTRACTOR 3D ART	20	1	O	1,000	1,920					O	1	20	(EN) MIG WELDER 100 3D ART	8
9	(EN) BAND SAW 3D ART	20	1	O			1,200	1,600			O	1	20	(EN) MOBILE COMP. 3D ART	10
11	(EN) SCROLL SAW 3D ART	20	1	O					1,200	1,440	R	1	20	(EN) CONV. OUTLETS 3D ART	12
13	(N)SANDER 3D ART	20	1	O	1,200	1,500					O	1	20	(EN) POLISHER 3D ART LAB	14
15	EXISTING LOAD	20	1	--			0	1,500			O	1	20	(EN) SPINNER 3D ART LAB	16
17	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	2	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	0					24
25	(EN) DRILL PRESS 3D ART	20	1	O	1,200	1,200					O	1	20	(EN) BELT DISC SANDER 3D ART	26
27	(EN) SCROLL SAW 3D ART	20	1	O			1,200	1,200			O	1	20	(EN) DRILL PRESS 3D ART	28
29	(EN) RADIAL SAW 3D ART	20	1	O					1,200	1,200	O	1	20	(EN) CHOP SAW 3D ART	30
31	(EN) ELECTRIC FURNACE 3D ART	20	1	O	1,500	360					R	1	20	(EN) CLAY MIXER	32
33	(EN) BENCH GRINDER 3D ART	20	1	O			1,200	1,500			O	1	20	(N)MINI FURNACE 3D ART	34
35	(EN) TABLE SAW 3D ART	20	1	M					1,500	1,500	O	1	20	(N)ELECTRIC FURNACE 3D ART	36
37	(N) BLASTER 3D ART LAB	20	1	O	1,500	1,250					M	2	25	(N)DUST COLLECTOR 3D ART FA130	38
39	(N) CASTING SYSTEM 3D ART	20	1	O			1,500	1,250							40
41	(N) PORTABLE FUME EXTRACTOR	40	1	M					1,100	1,500	M	1	40	(N)DUST COLLECTOR 3D ART FA130	42
				TOTA...	13130 VA		14350 VA		14480 VA						
				TOTA...	109.4 A		121.1 A		122.2 A						

ADD03

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	1800 VA	100.0...	1800 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 42 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 43 kVA
M	LARGEST...	6600 VA	109.4...	7225 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 116.5 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 118.2 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	33560 VA	100.0...	33560 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
FIELD VERIFY EXISTING SPACE AND SPARE CIRCUIT BREAKERS.
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.
UTILIZE EXISTING BRANCH CIRCUIT SERVING EXISTING SURFACE MOUNTED RACEWAY IN RESPECTIVE EXISTING CLASSROOM 111, 112, 113. SEE SHEET E2.1 FOR REFERENCES.

PANEL: 3F

LOCATION: 2D COLOR THEORY LAB... **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	LIGHT TABLE 2D COLOR THEORY LAB...	20	1	O	180	900					O	1	20	(EN)USER QUADS COLOR THEORY	2
3	(EN)POWER POLE COMP 2D COLOR...	20	1	O			1,200	720			R	1	20	(EN) EXISTING OUTLETS	4
5	(EN)FLOOR BOX FOR MOBILE WHITE...	20	1	O					500	800	O	1	20	(EN)DRAWING TABLES 2D COLOR...	6
7	(EN)PLOTTER 2D COLOR THEORY LAB...	20	1	O	1,500	800					O	1	20	(EN)DRAWING TABLES 2D COLOR...	8
9	(EN)DRAWING TABLES 2D COLOR...	20	1	O			800	800			O	1	20	(EN)DRAWING TABLES 2D COLOR...	10
11	(EN)POWER POLE COMP 2D COLOR...	20	1	O					1,200	800	O	1	20	(EN)POWER POLE COMP 2D COLOR...	12
13	(EN)DRAWING TABLES 2D COLOR...	20	1	O	800	0					--	1	20	(EN)SPARE	14
15	(EN)DRAWING TABLES 2D COLOR...	20	1	O			800	0			--	1	20	(EN)SPARE	16
17	(EN)DRAWING TABLES 2D COLOR...	20	1	O					800	800	O	1	20	(EN)DRAWING TABLES 2D COLOR...	18
19	(EN)DRAWING TABLES 2D COLOR...	20	1	O	800	0					--	1	20	(EN)SPARE	20
21	(EN)DRAWING TABLES 2D COLOR...	20	1	O			800	0			--	1	20	(EN)SPARE	22
23	(EN)DRAWING TABLES 2D COLOR...	20	1	O					800	0	--	1	20	(EN)SPARE	24
25	(EN)DRAWING TABLES 2D COLOR...	20	1	O	800	0					--	1	20	(EN)SPARE	26
27	(EN)DRAWING TABLES 2D COLOR...	20	1	O			800	0			--	1	20	(EN)SPARE	28
29	(EN)DRAWING TABLES 2D COLOR...	20	1	O					800	0	--	1	20	(EN)SPARE	30
31	(N)DRAWING TABLES 2D COLOR...	20	1	O	800	800					O	1	20	(EN)DRAWING TABLES 2D COLOR...	32
33	(N)DRAWING TABLES 2D COLOR...	20	1	O			800	0			--	1	20	(EN)SPARE	34
35	(N)DRAWING TABLES 2D COLOR...	20	1	O					800	0	--	1	20	(EN)SPARE	36
37	(EN)USER QUADS COLOR THEORY	20	1	O	900	0					--	1	20	(EN)SPARE	38
39	(EN)USER QUADS COLOR THEORY	20	1	O			900	0			--	1	20	(EN)SPARE	40
41	(EN)USER QUADS COLOR THEORY	20	1	O					900	0	--	1	20	(EN)SPARE	42
				TOTA...	8280 VA		7620 VA		8200 VA						
				TOTA...	69.7 A		63.5 A		69.1 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	720 VA	100.0...	720 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 24 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 24 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 66.9 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 66.9 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	23380 VA	100.0...	23380 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

PANEL: 1AA

LOCATION: CUST.-2 119-2 **VOLTS:** 480Y/277 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	(EN) LIGHTING RR 118, 120, EXIT LIGHTS	20	1	L	132	0					--	1	20	EXISTING LOAD	2
3	(EN) INSTRUMENTAL MUSIC LAB FA306	20	1	L			630	0			--	1	20	EXISTING LOAD	4
5	(EN) INSTRUMENTAL MUSIC LAB FA306	20	1	L					441	0	--	1	20	EXISTING LOAD	6
7	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	8
9	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	10
11	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	12
13	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	14
15	EXISTING LOAD	20	1	--			0	18			L	1	20	L	16
17	SPACE	--	--	--					0	0					18
19	SPACE	--	--	--	0	0					--	3	15	EXISTING LOAD	20
21	SPACE	--	--	--			0	0							22
23	SPACE	--	--	--					0	0	--	--	--	SPACE	24
25	SPACE	--	--	--	0	0					--	--	--	SPACE	26
27	SPACE	--	--	--			0	0			--	--	--	SPACE	28
29	SPACE	--	--	--					0	0	--	--	--	SPACE	30
31	SPACE	--	--	--	0	0					--	--	--	SPACE	32
33	SPACE	--	--	--			0	0			--	--	--	SPACE	34
35	SPACE	--	--	--					0	0	--	--	--	SPACE	36
37	SPACE	--	--	--	0	0					--	--	--	SPACE	38
39	SPACE	--	--	--			0	0			--	--	--	SPACE	40
41	SPACE	--	--	--					0	0	--	--	--	SPACE	42
				TOTA...	132 VA		648 VA		441 VA						
				TOTA...	0.5 A		2.5 A		1.8 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	1217 VA	125.0...	1521 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 1 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 2 kVA
M	LARGEST...	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 1.5 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 1.8 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	0 VA	0.00%	0 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
FIELD VERIFY EXISTING SPACE AND SPARE CIRCUIT BREAKERS.
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.
UTILIZE EXISTING BRANCH CIRCUIT SERVING EXISTING SURFACE MOUNTED RACEWAY IN RESPECTIVE EXISTING CLASSROOM 111, 112, 113. SEE SHEET E2.1 FOR REFERENCES.

PANEL: 3G

LOCATION: ILLUSTRATION & DRAWING... **VOLTS:** 208Y/120 **MOUNTING:** SURFACE
BUS RATING: 225.0 A **PHASES:** 3 **FED FROM:**
MAIN BREAKER: MLO **WIRES:** 4 **INTEGRAL SPD:** Type 1
SCCR: **LUG ACCESSORIES:**

CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	LOAD TYPE	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		LOAD TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1	STUDENT TABLE ILLUSTRATION &...	20	1	O	360	750					M	1	20	(EN) POWER ASSIST DOORS	2
3	STUDENT TABLE ILLUSTRATION &...	20	1	O			360	900			O	1	20	USER QUADS ILLUSTRATION &...	4
5	STUDENT TABLE ILLUSTRATION &...	20	1	O					360	900	O	1	20	USER QUADS ILLUSTRATION &...	6
7	STUDENT TABLE ILLUSTRATION &...	20	1	O	360	900					O	1	20	USER QUADS ILLUSTRATION &...	8
9	STUDENT TABLE ILLUSTRATION &...	20	1	O			360	900			O	1	20	USER QUADS ILLUSTRATION &...	10
11	STUDENT TABLE ILLUSTRATION &...	20	1	O					360	900	O	1	20	USER QUADS ILLUSTRATION &...	12
13	STUDENT TABLE ILLUSTRATION &...	20	1	O	360	900					O	1	20	USER QUADS ILLUSTRATION &...	14
15	STUDENT TABLE ILLUSTRATION &...	20	1	O			360	180			O	1	20	(EN) PRINTER DIGITAL DRAWING LAB...	16
17	DRAFTING TABLE ILLUSTRATION &...	20	1	O					360	900	R	1	20	EXISTING LOAD ILLUSTRATION &...	18
19	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	20
21	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	22
23	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	24
25	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	26
27	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	28
29	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	30
31	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	32
33	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	34
35	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	36
37	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	38
39	LIGHT TABLE ILLUSTRATION & DRAWING	20	1	O			180	0			--	1	20	EXISTING LOAD	40
41	SPARE	20	1	--					0	0	--	1	20	EXISTING LOAD	42
				TOTA...	3630 VA		3240 VA		3780 VA						
				TOTA...	30.8 A		27.0 A		32.0 A						

LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND...	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES	BKR TYPE	PANEL TOTALS
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%	G = GFCI (5mA)	
R	RECEPTACL...	900 VA	100.0...	900 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%	GP = GFP (30mA)	**CONNECTED LOAD:** 11 kVA
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220	ST = SHUNT TRIP	**ESTIMATED DEMAND:** 11 kVA
M	LARGEST...	750 VA	108.3...	813 VA	LARGEST MOTOR, NEC ART. 430	LO = LOCK OUT	**CONNECTED CURRENT:** 29.6 A
C	MOTOR	0 VA	0.00%	0 VA			**EMD CURRENT:** 29.7 A
H	COOLING	0 VA	0.00%	0 VA			
O	HEATING	9000 VA	100.0...	9000 VA			
Spare	OTHER	0 VA	0.00%	0 VA			
	SPARE						

NOTES:
EXISTING LOAD: TO REMAIN.
(E): EXISTING TO REMAIN, (ER): EXISTING TO REMOVE, (EN): EXISTING CIRCUIT BREAKER WITH NEW LOAD, (N): NEW CIRCUIT BREAKER WITH NEW LOAD TO BE FULLY RATED AND SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
FIELD VERIFY EXISTING SPACES/ SPARE CIRCUIT BREAKERS.
UTILIZE EXISTING BRANCH CIRCUITS IN RESPECTIVE EXISTING CLASSROOMS. SEE SHEET E6.1 FOR REFERENCES.

1B	1G	3B
3AA	1D	3F
-	1AA	3G

REGISTERED PROFESSIONAL ENGINEER
ROOZBEH MEHRKISH
E-19355
12/31/22
ELECTRICAL
STATE OF CALIFORNIA

DLR Group
© DLR Group

Cypress College Swing Space
9200 Valley View St. Cypress CA, 90630

Cypress College

DSA APPROVAL

2/4/2022
Revisions

Add03	5/19/2022	ADD03

75-21204-02

ELECTRICAL SCHEDULES

E7.2

BIM 360://75-21204-00 Cypress College Fine Arts/75-21204-02_Cyp-College-SwingSpace_MEP_2020.rvt
5/17/2022 3:35:45 PM

PRE-BID CLARIFICATION FORM

(Email this completed form to jho@nocccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Fine Arts Swing Space Project at Cypress College Pre-Bid RFI #01		
PROJECT NUMBER:	1116	BID NUMBER:	2122-24
DATE:	05-12-22		
FROM:	New Dynasty Construction	EMAIL:	estimating@new-dc.com
SPEC SECTION:	02-4119 Selective Demolition	DRAWING NUMBER:	AD1.1, AD1.2, AD1.3

REQUESTED CLARIFICATION:

1. Reference Keynote D25 on plan sheets AD1.1 to AD1.3 states 'Demo [E] furnishings and equipment as indicated, refer to Demolition Legend'. The Demolition Legend on the said pages, however, does not have a list of the 'furnishings and equipment' to be demo'd. Please provide this list for every room where we can find Ref. Keynote D25.

RESPONSE TO CLARIFICATION:

Contractor to remove Group I items as represented with dashed lines on the demo plans. All Group II furniture and equipment will be removed by others.

AK/DLR, 5/13/22

Response By:	---
Verified By (AOR):	A Knudsen/DLR Group

Attach additional numbered sheets as necessary; however, **only one (1) clarification request shall be contained on each submitted form**.

END OF DOCUMENT

PRE-BID CLARIFICATION FORM

(Email this completed form to jho@nocccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Fine Arts Swing Space Project at Cypress College Pre-Bid RFI #02		
PROJECT NUMBER:	1116	BID NUMBER:	2122-24
DATE:	05-12-22		
FROM:	New Dynasty Construction	EMAIL:	estimating@new-dc.com
SPEC SECTION:	02-4119 Selective Demolition, 09-2900 Gyp Board, 09-5113 Acoustic Panel Ceilings, 09-9100 Painting	DRAWING NUMBER:	

REQUESTED CLARIFICATION:

1. Please confirm there are no works on the ceiling on the Second Floor and Third Floor for this project. The plans only show a First Floor Reflected Ceiling Demolition Plan (AD3.1), and a First Floor Reflected Ceiling Plan (A3.1).

RESPONSE TO CLARIFICATION:

Reference Addendum 03 for electrical ceiling work in Level 2 Restrooms 218 and 220 and Level 3 Restrooms 329 and 331

AK/DLR, 5/13/22

Response By:	---
Verified By (AOR):	A Knudsen/DLR Group

Attach additional numbered sheets as necessary; however, **only one (1) clarification request shall be contained on each submitted form**.

END OF DOCUMENT

PRE-BID CLARIFICATION FORM

(Email this completed form to jho@nocccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Fine Arts Swing Space Project at Cypress College Pre-Bid RFI #03		
PROJECT NUMBER:	1116	BID NUMBER:	2122-24
DATE:	05-12-22		
FROM:	New Dynasty Construction	EMAIL:	estimating@new-dc.com
SPEC SECTION:	06-4116 Plastic Laminate-Clad Architectural Casework	DRAWING NUMBER:	A1.1 First Floor Plan

REQUESTED CLARIFICATION:

1. Reference Keynote N2 on plan sheet A1.1 First Floor Plan directs us to provide a storage shelving in Electric Kiln Room FA129D. There is, however, no drawing or section drawing given. Please provide.

RESPONSE TO CLARIFICATION:

Provide per 53/A11.1.

AK/DLR, 5/13/22

Response By:	---
Verified By (AOR):	A Knudsen/DLR Group

Attach additional numbered sheets as necessary; however, **only one (1) clarification request shall be contained on each submitted form**.

END OF DOCUMENT

PRE-BID CLARIFICATION FORM

(Email this completed form to jho@nocccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Fine Arts Swing Space Project at Cypress College Pre-Bid RFI #04		
PROJECT NUMBER:	1116	BID NUMBER:	2122-24
DATE:	05-12-22		
FROM:	New Dynasty Construction	EMAIL:	estimating@new-dc.com
SPEC SECTION:	06-4116 Plastic Laminate-Clad Architectural Casework, 12-3661 Solid Surfacing	DRAWING NUMBER:	A11.1 Details - Casework

REQUESTED CLARIFICATION:

1. Det. 33 Sink at Counter Detail and 34 Counter Lav Detail on plan sheet A11.1 Details-Casework both show SSM-01 Designer-selected counter and apron for the typical island casework.

Please advise what material of product exactly is SSM-01. On the Finish Schedule on plan sheet A10.0 Wall Types & Finish Schedule, SSM-01 falls under Spec Sec. 12-3661 Solid Surfacing but no specs are given.

RESPONSE TO CLARIFICATION:

Reference Addendum 03, details 33, 34/A11.1.

AK/DLR, 5/19/22

Response By:	---
Verified By (AOR):	A Knudsen/DLR Group

Attach additional numbered sheets as necessary; however, **only one (1) clarification request shall be contained on each submitted form**.

END OF DOCUMENT

PRE-BID CLARIFICATION FORM

(Email this completed form to jho@nocccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Fine Arts Swing Space Project at Cypress College Pre-Bid RFI #05		
PROJECT NUMBER:	1116	BID NUMBER:	2122-24
DATE:	05-12-22		
FROM:	New Dynasty Construction	EMAIL:	estimating@new-dc.com
SPEC SECTION:	08-1400 Wood Doors	DRAWING NUMBER:	A1.1 First Floor Plan

REQUESTED CLARIFICATION:

1. Please confirm that the two doors and frames that we are bidding are not to be STC rated. There is reference to STC material under the hollow metal spec and the details point to sound deadening insulation behind the frame. Door schedule only references a 45 min rating.

RESPONSE TO CLARIFICATION:

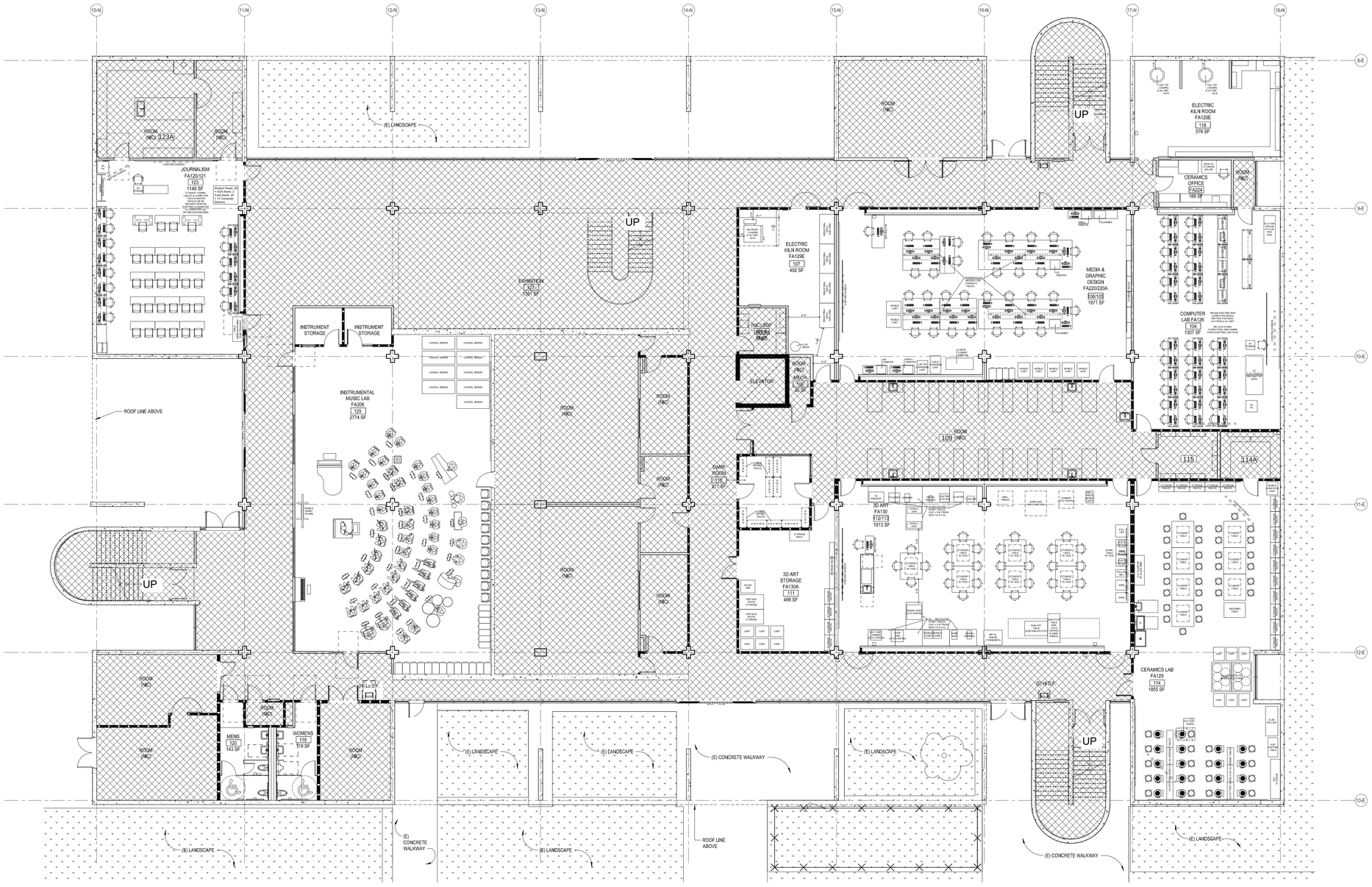
There is no STC rating. Reference Addendum 03 for updated details without insulation.

AK/DLR, 5/13/22

Response By:	---
Verified By (AOR):	A Knudsen/DLR Group

Attach additional numbered sheets as necessary; however, **only one (1) clarification request shall be contained on each submitted form**.

END OF DOCUMENT



General Notes

1st Floor FF&E Plan

No.	Revision/Issue	Date
7	Revision	05.13.22
6	Revision	01.19.22
5	Revision	12.14.21
4	Revision	08.19.21
3	Revision	08.04.21
2	Revision	07.22.21
1	Test Fit	07.07.21

Firm Name and Address

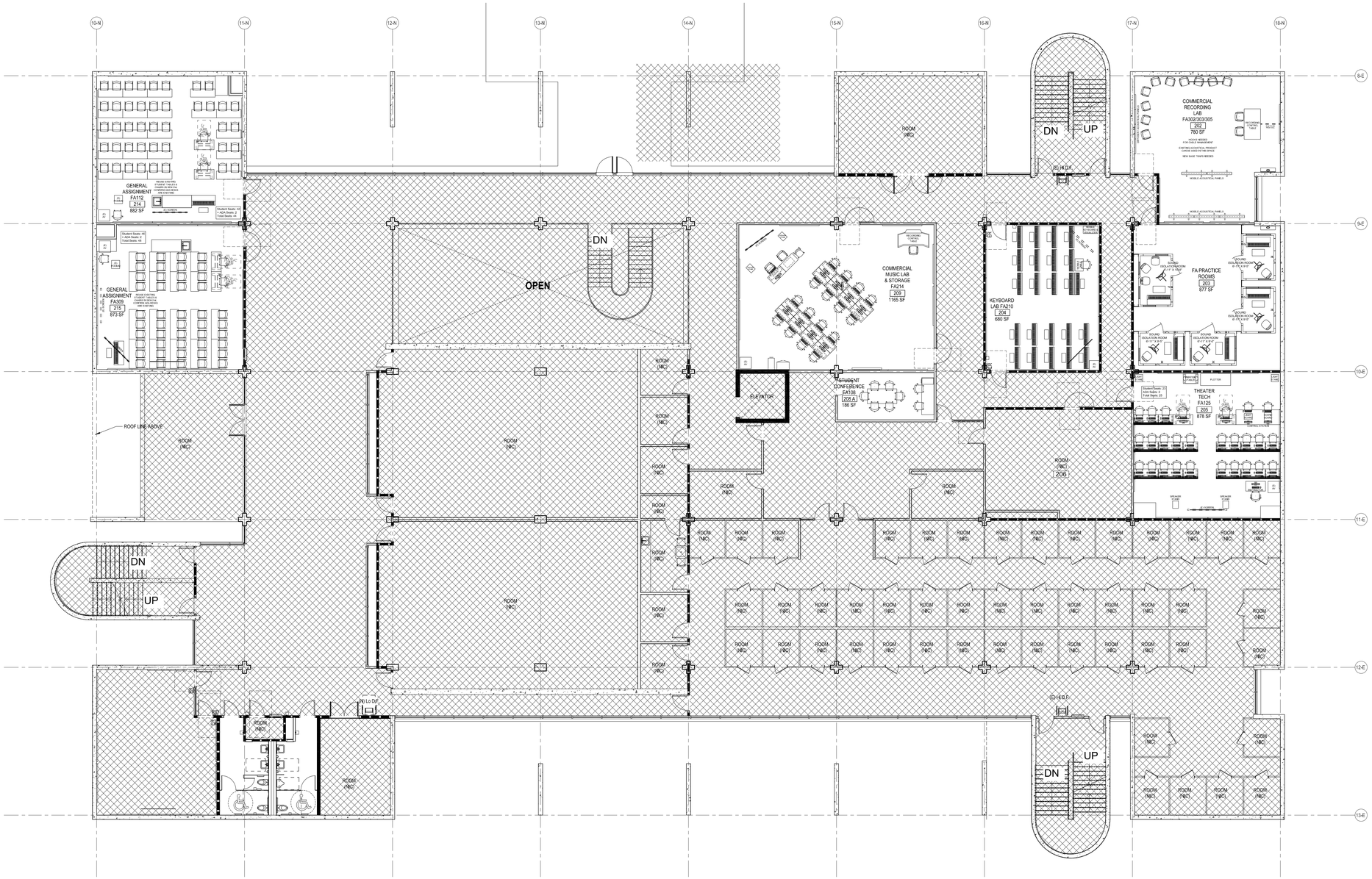
Dovetail DCI
237 Crescent Road, Ste 4
San Anselmo, CA 94960

DOVETAIL
Thinking That Moves Business Forward

Project Name and Address

NOCCCD
Cypress College
9200 Valley View Street
Cypress, CA 90630

Project	Sheet
Fine Arts Swing Space	1
Date: 05.13.2022	
Scale: 3/32" = 1'-0"	



General Notes

2nd Floor Plan - Test Fit

No.	Revision/Issue	Date
7	Revision	05.13.22
6	Revision	01.19.22
5	Revision	12.14.21
4	Revision	08.19.21
3	Revision	08.04.21
2	Revision	07.22.21
1	Test Fit	07.07.21

Firm Name and Address
Dovetail DCI
237 Crescent Road, Ste 4
San Anselmo, CA 94960
DOVETAIL
Thinking That Moves Business Forward

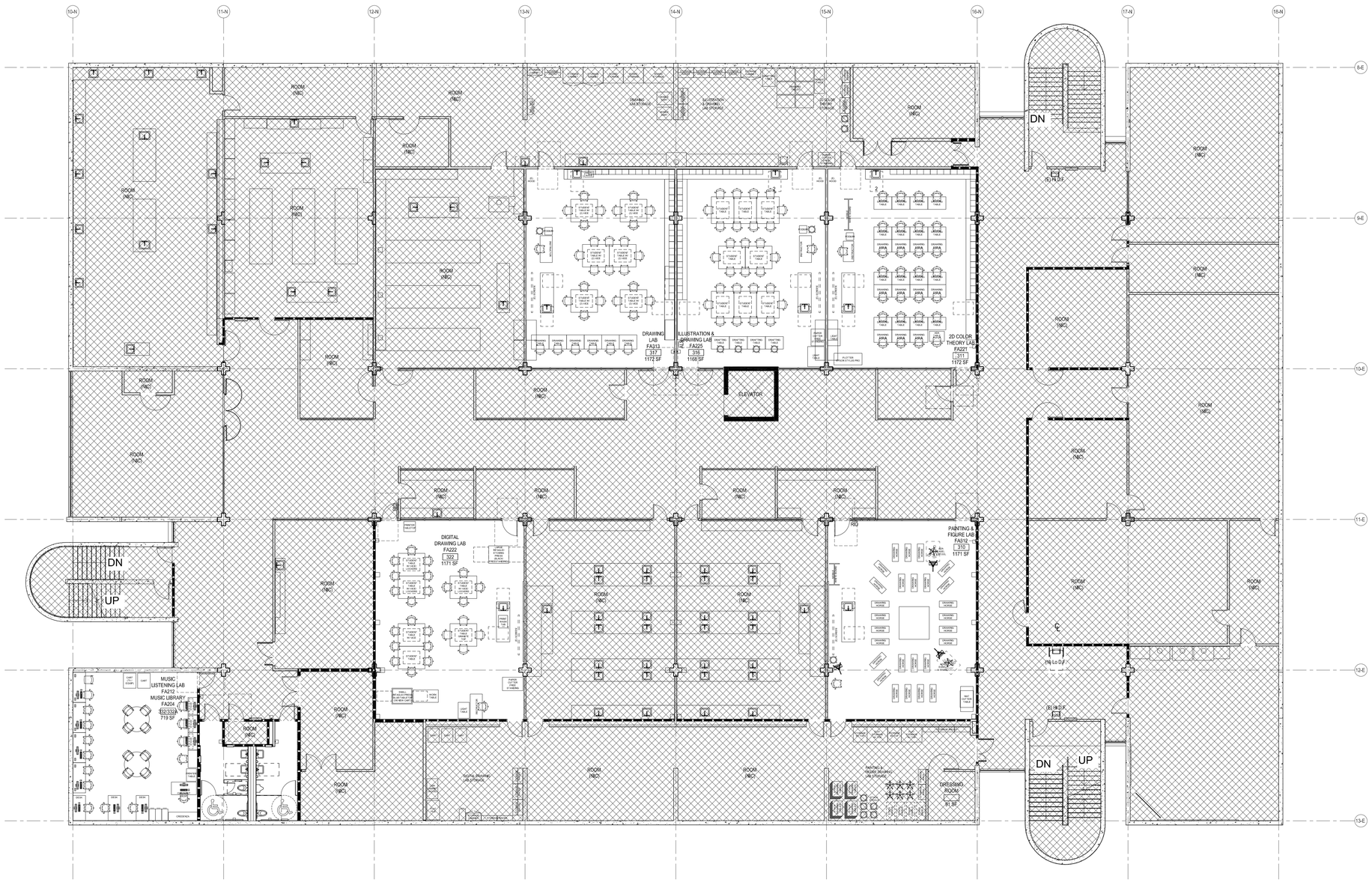
Project Name and Address
NOCCCD
Cypress College
9200 Valley View Street
Cypress, CA 90630

Project
Fine Arts Swing Space

Date
05.13.2022

Scale
3/32" = 1'-0"

Sheet
2



General Notes

3rd Floor Plan - FF&E Plan

No.	Revision/Issue	Date
7	Revision	05.13.22
6	Revision	01.19.22
5	Revision	12.14.21
4	Revision	08.19.21
3	Revision	08.04.21
2	Revision	07.22.21
1	Test Fit	07.07.21

Firm Name and Address
Dovetail DCI
237 Crescent Road, Ste 4
San Anselmo, CA 94960
DOVETAIL
Thinking That Moves Business Forward

Project Name and Address
NOCCCD
Cypress College
9200 Valley View Street
Cypress, CA 90630

Project
Fine Arts Swing Space

Date
05.13.2022

Scale
3/32" = 1'-0"

Sheet
3