WEST END REGIONAL NAVIGATION CENTER PROJECT
BID NO.: DE-26-222-SB

Addendum No. 2 Information
June 16, 2026

To All Prospective Bidders, the following changes have been made to the bid.

1. **Q&A:** Q&A Set 2 has been released for this project.

2. **BID SPECIFCATIONS**

   2.1 **Revised** "INSTRUCTIONS TO BIDDERS" Page 16 shall replace previously released "INSTRUCTIONS TO BIDDERS" Page 16.

   a. Added verbiage for revised deadline to receive questions.

See attached.

3. **PROJECT MANUAL**

   3.1 **Revised** "Project Manual" Sheets are hereby included and shall replace the previously released "Project Manual" Sheets. Changes to Manual include:

   a. Section 07 52 00: Section reissued with further clarifications.
   b. Section 23 23 00: Updated Section with additional clarifications.
   c. Section 28 13 00: Updated Section with additional clarifications.
   d. Section 28 14 00: Updated Section with additional clarifications.

See attached.

4. **PLANS/EXHIBITS**

   4.1 **Revised** "WEST END REGIONAL NAVIGATION CENTER" Plan Sheets are hereby included and shall replace the previously released "WEST END REGIONAL NAVIGATION CENTER" Plan Sheets. Changes to Plans include:

   ARCHITECTURAL

   a. **Sheet CS - Cover Sheet:** Revise signage plans added to sheet index: XT-1, XT-2. Programming and Operational Plan sheet added to index sheet. Project Data: Allowable Area – code analysis clarified, Project description clarified,

Building area clarified, Construction type revised to Type III-B. Building Code: Clarified to include notation regarding funding and code compliance.

b. **Sheet CS-1:** Deferred submittals clarified.
c. **Sheet CS-2:** New sheet added to include Project Programming and Operational information and occupancy diagram.
d. **Sheet CG-1:** Revised to Updated 2025 Edition.
e. **Sheet CG-2:** Revised to Updated 2025 Edition.
f. **Sheet CG-3:** Revised to Updated 2025 Edition.
g. **Sheet CG-4:** Revised to Updated 2025 Edition.
h. **Sheet EX-1:** Adjust POT travel distance at egress, adjust stair configuration at west Staff Entry, reconfigure South dorm rooms from original 3 rooms to 4 rooms, omit South exit egress doors. Reconfigure West Staff Stair.
i. **Sheet EX-2:** Adjust Occupant loads Distribution and Path of Travel.
j. **Sheet OCC-1:** Reconfigure south dorm room area, adjust occupant load and egress paths. Reconfigure West Stairs. Clarify Occupant Load table.
k. **Sheet OCC-2:** Reconfigure West Staff Stair. Clarify exiting travel path distance. Clarify occupant load table.
l. **Sheet XT-1:** New plan added.
m. **Sheet XT-2:** New plan added.
n. **Sheet SP1-1:** Add new concrete walkway at west pedestrian egress gate landing. Add detectable warning at walk at North Staff Entry. Add new concrete walkway at north façade. Add new accessible ramp at North Police Entry. Create a new EV charging station / stall at North Police Entry. Add new standard electrical charging station at sliding gate operator at north site (Enclosed Parking area). Omit light fixture AA symbol at interior parking area (3) locations. Omit new concrete landings at South Dorm area. Demolish existing concrete landings at abandoned south dorm egress doors. Include new parking tabulations at site & building information. Clarify plan keynote No. 11. Clarify plan keynote No. 28. Add new plan keynotes 48 and 49.
o. **Sheet SP-1.2:** Omit slide gate operator details (relocated to Details 16, 18, 21, 23 on Sheet A14.3).
p. **Sheet SP-1.3:** Add new EVCS parking stall.
q. **Sheet A-0.1:** Show demolition at west pedestrian egress gate. Demolition at north parking area to accommodate new concrete sidewalk, curb, and accessible ramp at EVCS. Clarify extent of demolition at truck well/loading dock. Clarify demolition of a/c paving at east parking area adjacent to trash enclosure and future DG at dog run enclosure. Clarify demolition extent at concrete area for container location. Omit demolition for proposed omitted south egress at dorm areas.
r. **Sheet A-0.2:** Clarify demolition at west stairs. Clarify demolition scope at south-side dorm room area.
s. **Sheet A-0.3:** Clarify demolition at west stairs. Clarify plan keynote No. 2. Clarify plan keynote No. 7.

t. **Sheet A-1.0:** Clarify reconfigured west stair. Clarify reconfigured south dorm rooms 188A, 188B, 187, and 186; omit south egress doors at each room. Omit south egress door at Room 171. Add new wall type “X” to wall legend.
u. **Sheet A-1.1:** Add additional card-reader location to doors throughout. Clarify reconfigured south dorm rooms 188A, 188B, 187, and 186; omit south egress doors at each room. Omit south egress door at Room 171. Clarify new designated Mobility Dorm Room 210 and add new General Note No. 13 with requirements. Revise room name for Room 121. Clarify “alarmed”-door locations throughout. Clarify reconfigured west stairs.
v. **Sheet A-1.2:** Clarify reconfigured west stair. Clarify wall type “X” in wall legend.
w. **Sheet A-1.3:** Add additional card-reader locations to doors throughout. Clarify reconfigured west stairs.
x. **Sheet A-2.1:** Clarify reconfigured west stair and ceiling. Clarify reconfigured south dorm rooms, omit exit signage at deleted doors. Omit exit sign at Room 171 deleted exit door. Indicate Room 210 as designated Mobility Dorm Room; add General Note No. 12 for Mobility Dorm Room. Requirements for fire alarm, door signal device, and audible signal device requirements. Add new keynote 11 for designated Mobility Dorm Room. Add plan note No. 12 to indicate gyp board soffit at west stair.
y. **Sheet A-2.2:** Clarify reconfigured West Stair.
z. **Sheet A-3.1:** Clarify card-reader locations at doors throughout. New West Stair configuration. Clarify South Dorm Room area reconfiguration; revise electrical outlet locations, etc. Clarify Room 210 as designated mobility dorm room; add General Note No. 9 for room requirements and compliance features. Clarify door-alarm locations throughout.
aa. **Sheet A-3.2:** Clarify card-reader locations at doors throughout. Clarify reconfigured West Stair.
bb. **Sheet A-4.1:** Clarify Finish General Note No. 10 for TCNA method/specification locations. Paint specification locations clarified. All Paint, Wall tiles, and wall murals have been identified on the Finish Floor Plan. Staff Lobby 100: Identify WM-4 wall mural location. Dining Area 157: Revised paint (P-2) location. Lounge Area 123: WM-5 has been added to the north wall. Intake Entry 161: revise P-2 and P-8 paint locations. Finish General Notes: General Note 15 has been added. General note 16 has been added. Finish Plan Key Notes: Clarification on Keynote #9. Finish Legend: B-1, clarify base color. FRP-4, add note to apply division bar between panels. WM-1, WM-2, WM-3 & WM-4. Wall Murals have been Specified. WM-5 Has been added to the legend. PL-6 Plastic Laminate has replaced Color Core CC-1. WT-8 Wall tile color has been revised. WT-10 Wall tile color has been revised. TP-1, Toilet Partition color has been identified. SP-1, Shower Partition color has been identified.
cc. **Sheet A-4.2:** Clarify Finish plan General Note No. 10 for TCNA method/specification locations. Paint specification locations clarified. General:

All Paint colors have been identified on the Finish Floor Plan. All Finish General Notes, Finish Plan Key Notes and Finish Legend have been updated.

dd. **Sheet A-4.3:** Clarify south dorm rooms, footings, etc. Omit south exit door landings at reconfigured dorm room area. Clarify west stair reconfiguration.

ee. **Sheet A-5:** Omit roof screen Detail 23. Omit exterior canopies at reconfigured south dorm room area egress doors. Clarify Plan Keynote No. 13 to include roof “to match existing” roof specification.

ff. **Sheet A-6.1:** Omit deleted exit doors at south dorm room reconfiguration. Omit new doors, new doors, exterior canopies, lighting, etc. at new doors. Remove existing doors and existing lighting and related where doors are demolished. Provide 2-hour-rated exterior stucco infill at demolished door locations, typical at Detail 7.

gg. **Sheet A-6.3:** Add new west stair sections. Clarify gyp-board requirements at east stair/elevator sections. Clarify Sections 9 and 10 for structural elements and insulation locations.

hh. **Sheet A-6.4:** Clarify Section 8, 9, and 10 for structural elements and insulation locations.

ii. **Sheet A-7.1:** Clarify General No. 3. Clarify General Note No. 9 for shower curb/drain details.

jj. **Sheet A-7.2:** Clarify General Note No. 3. Clarify General Note No. 9 for shower curb/drain details.

kk. **Sheet A-7.3:** Clarify General Note No. 3. Clarify General Note No. 9 for shower curb/drain details.

ll. **Sheet A-7.4:** Clarify General Note No. 3. Clarify General Note No. 9 for shower curb/drain details.

mm. **Sheet A-7.5:** Omit sump note No. 5, Detail 1. Clarify detail callout locations for Detail No. 5 and detail Plan Note No. 5. Omit drain, Details 15 and 25.

nn. **Sheet A-8.1:** General: All Paint colors have been identified on the Finish Floor Plan. All Finish General Notes, Finish Plan Key Notes and Finish Legend have been updated.

oo. **Sheet A-8.2:** General: Paint colors have been identified on all elevations.

pp. **Sheet A-8.3:** General: Paint colors have been identified on all elevations.

qq. **Sheet A-9.1:** General: All paint colors have been identified on all elevations. Elevation 2 Break Area 119: Wt-12 has been added backsplash.

rr. **Sheet A-9.2:** General: All paint colors have been identified on all elevations. Elevation 18 Drinking Fountain: note has been added to provide edge trim. Elevation 10 Elevator Elevation: finishes on elevations have been updated.

ss. **Sheet A-10:** Clarify doors equipped with alarms. Clarify doors equipped with card readers. Omit egress doors omitted at reconfigured south dorm areas; include new door at added dorm room as result of reconfiguration. Clarify Door 210 at Room 210 as designated Mobility Dorm; outfitted with viewing and audible visual device.

tt. **Sheet A-10.1:** Clarify doors equipped with alarms. Clarify doors equipped with card readers. Clarify window-entail callouts for Window Type “E”. Omit Window Type “L” elevation.
uu. **Sheet A-10.2:** Add new Detail 24, room occupancy signage.
vv. **Sheet A-10.3:** Modify Details 8 and 9 to 2-hour rated infill assembly.
ww. **Sheet A-11.1:** Provide new Detail 3, toilet accessories.
xx. **Sheet A-13.1:** Clarify Detail 14 to include “existing or new storefront, as occurs.”
yy. **Sheet A-14.1:** Clarify Details 1, 2, and 3 to 2-hour-rated infill assembly. Clarify Details 11 and 12 to include fire-resistive assembly, including fire-resistant band and fire-resistant dome glazing at roof area provided by manufacturer, with applicable code-compliance research report CORR-0131 for Solatube skylights.
zz. **Sheet A-14.2:** Enlarged reconfigured west stair details 21 and 22.
aaa. **Sheet A-14.3:** Relocated sliding gate details from 5/SP-1.2. Additional information/details provided for gate and loping installation. New Detail 24, enlarged plan for Mobility Dorm Room 210 – designated mobility sleeping room. New Details 20 and 25 for visual/audible fire alarm and doorbell A/V signal.

CIVIL

bbb. **Sheet C1.1:** Update California code issues. Update Note No. 14 earthwork volumes / grading notes.
ccc. **Sheet C2.1:** Add new accessible ramp detail.
ddd. **Sheet C3.1:** Add increased area of demolition at north site. Reduce demolition scope at south site (omit exit doors at dorm rooms). Clarify Notes E and L. Increased area of demolition at west accessible gate egress.
eee. **Sheet C4.1:** Additional concrete walk at west pedestrian egress gate landing. Add detectable warning at west entry. Add addition concrete wall and accessible ramp at new egress at north site. Omit new landings at south dorm room exits. Add/clarify Plan Note No. 7.
fff. **Sheet C6.1:** Adjust area of EC at north side.

PLUMBING

ggg. **Sheet P011:** Updated Condensate Drain Sizing Table and Low-Pressure Gas Pipe Schedule to be 2025 code cycle.
hhh. **Sheet P201:** Revised General Note #20 to be 2025 code cycle.
iii. **Sheet P202:** Revised General Note #20 to be 2025 code cycle.
jjj. **Sheet P211:** Revised General Note #20 to be 2025 code cycle.
kkk. **Sheet P301:** Revised General Note #20 to be 2025 code cycle.
lll. **Sheet P302:** Revised General Note #20 to be 2025 code cycle.
mmm. **Sheet P401:** Revised General Note #20 to be 2025 code cycle.

nnn. **Sheet P402:** Revised General Note #20 to be 2025 code cycle.
ooo. **Sheet P403:** Revised General Note #20 to be 2025 code cycle.
ppp. **Sheet P404:** Revised General Note #20 to be 2025 code cycle.
qqq. **Sheet P405:** Revised General Note #20 to be 2025 code cycle.
rrr. **Sheet P406:** Revised General Note #20 to be 2025 code cycle.
sss. **Sheet P501:** Revised notes 8-13 in detail to reference 2025 code.

MECHANICAL

ttt. **Sheet M022:** Revisions made to Envelope Components.
uuu. **Sheet M025:** Revisions made to Room Names and Ventilation.
vvv. **Sheet M201:** Revised routing and distribution to new Dorm Room Layout. Slightly shifted diffuser to avoid interference with altered staircase.

ELECTRICAL

www. **Sheet E001:** Added Sheet E023 to sheet index.
xxx. **Sheet E022:** Added Title 24 compliance forms associated with the exterior lighting systems.
yyy. **Sheet E023:** New sheet added to provide exterior lighting Title 24 compliance documentation.
zzz. **Sheet E031:** Added lighting fixture type “TE” to the Lighting Fixture Schedule. Fixture type “TE” added at exit door locations to provide required emergency egress illumination
aaaa. **Sheet E101:** Added site electrical infrastructure including EV charging stations, sliding gate operator system, card reader access control devices, CCTV equipment, and security station utilities. Added power connections for (2) EV charging stations. Added power and rough-in for sliding gate operator and pedestrian gate access control systems. Added CCTV camera locations per latest security drawings. Added power feed and associated infrastructure for prefabricated security station. Added conduit routing and associated infrastructure required for security and access control systems. Coordinated site electrical scope with latest architectural and security documents.
bbbb. **Sheet E201:** Revised Dorm Rooms 186, 187, and 188 to reflect reconfiguration into four smaller dormitory rooms. Revised power distribution associated with the new dormitory room layout. Reconfigured laundry room equipment layout to align with latest architectural drawings and selected equipment. Revised branch circuiting and panel assignments associated with updated laundry equipment. Added card reader locations coordinated with security drawings. Added CCTV camera junction box locations coordinated with security drawings. Added power connections for (2) metal detector stations. Added Solatube daylighting devices with associated electrical connections and controls. Added power connection for hand dryer equipment. Added provisions for assistive listening system infrastructure to support CBC

11B-219 accessibility requirements. Added power provisions for mobility dorm room accessibility devices and communication systems in accordance with CBC 11B-809 requirements. Added miscellaneous power devices including televisions and printers. Added coordination keynotes for security, accessibility, and specialty systems. Added keynote requiring verification and upgrading of existing receptacles with GFCI protection where required by CEC 210.8(A). Increased Transformer T-1 and Panel P1 capacities to accommodate revised connected loads. Refer to Sheet E501.

cccc. **Sheet E202:** Added card reader locations coordinated with security drawings. Added miscellaneous power devices including televisions and printers. Added power connections for (3) hand dryers. Increased Transformer T-3 and Panel P3 capacities to accommodate revised connected loads. Refer to Sheet E501.

dddd. **Sheet E211:** Added HVAC control wiring keynote for thermostat and control system coordination.

eeee. **Sheet E301:** Revised lighting layout associated with reconfiguration of Dorm Rooms 186, 187, and 188 into four smaller dormitory rooms. Revised lighting layout associated with stairwell modifications at the northeast portion of the building and adjacent Elevator Lobby 124. Added exterior emergency wall-mounted fixture type "TE" at required exit door locations. Updated emergency lighting design to maintain compliant egress illumination throughout required exit discharge paths. Coordinated lighting revisions with updated architectural floor plans.

ffff. **Sheet E303:** Updated egress lighting photometric calculations to reflect lighting revisions shown on Sheet E301. Added emergency lighting fixtures at exit discharge doors. Verified emergency illumination coverage throughout required paths of egress and exit discharge locations.

gggg. **Sheet E401:** Added countertop receptacles and associated branch circuiting for kitchen work areas. Added GFCI protection as required by applicable code requirements. Coordinated receptacle locations with latest architectural kitchen layout.

hhhh. **Sheet E501:** Revised electrical distribution system to reflect increased load requirements associated with project revisions. Increased Transformer T-1 and Panel P1 ratings to accommodate revised first-floor loads. Increased Transformer T-3 and Panel P3 ratings to accommodate revised second-floor loads. Updated feeder sizing and equipment ratings associated with revised loading conditions. Updated overall service load calculations and load summary. Added Transformer T-SP and Panel SP to serve new site power infrastructure. Revised distribution from existing House Panel HB to support new site power equipment.

iiii. **Sheet E601:** Added Panel SP serving site electrical infrastructure. Revised House Panel HB to provide feeder to Transformer T-SP and Panel SP. Updated panel schedules to reflect new site power loads and associated circuit assignments. Revised Panel LB schedule to reflect updated laundry

equipment loads and circuit assignments. Revised Panel HB schedule to reflect updated laundry equipment loads and circuit assignments. Updated panel schedules to coordinate with revised laundry room equipment layout shown on Sheet E201.

jjjj. **Sheet E602:** Revised Panel P1 schedules to reflect new connected loads and revised distribution shown on Sheets E201 and E501. Revised Panel P3 schedules to reflect new connected loads and revised distribution shown on Sheets E202 and E501. Updated circuiting and load calculations to coordinate with revised electrical distribution system modifications.

See attached.

ADDENDUM 2 - 2.1.a

IRREGULAR PROPOSALS

Unauthorized conditions, limitations, or provisions attached to a proposal will render it irregular and may cause its rejection. The completed proposal forms shall be without interlineations, alterations, or erasures. Alternative proposals will not be considered unless specifically requested. No oral, telegraphic, or telephonic proposal, modification, or withdrawal will be considered.

SALES AND OTHER APPLICABLE TAXES, PERMITS, LICENSES AND FEES

Contractor and its subcontractors performing work under this Contract will be required to pay California sales tax and other applicable taxes, and to pay permits, licenses and fees required by the agencies with authority in the jurisdiction in which the work will be located, unless otherwise expressly provided by the Contract Documents.

INTERPRETATION OF PLANS AND DOCUMENTS

If any bidder contemplates submission of a bid for the proposed contract and is in doubt as to the true meaning of any part of the plans, specifications or other proposed contract documents, or finds discrepancies in, or omissions from, the Plans, Specifications or other Contract Documents or questions as to their meaning shall be immediately brought to the attention of the City by submission of a written request for an interpretation or correction to the City. Such submission, if any, must be sent using the "Q&A" tab of the electronic bid system at www.fontanapurchasing.org. **Interpretations or corrections received within ~~5~~ 8 days prior to bid opening will not be answered.**

Any interpretation of the Contract Documents will be made only by addendum duly issued electronically to each person registered on the prospective bidder's list. The City will not be responsible for any explanations or interpretations provided in any other manner. No person is authorized to make any oral interpretation of any provision in the Contract Documents to any Bidder, and no Bidder should rely on any such oral interpretation.

Bids shall include complete compensation for all items that are noted in the Contract Documents and are the responsibility of the Contractor.

ADDENDA

The City reserves the right to revise the Contract Drawings prior to the Bid opening date. Revisions, if any, shall be made by written Addenda. All Addenda issued by the City shall be included in the Bid and made part of the Contract Documents. Pursuant to the Public

ADDENDUM 2 - 3.1

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ADDENDUM 2 - 3.1

BUILDING AND SITE IMPROVEMENTS
WESTEND NAVIGATION CENTER

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BUILDING AND SITE IMPROVEMENTS
WESTEND NAVIGATION CENTER

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BUILDING AND SITE IMPROVEMENTS
WESTEND NAVIGATION CENTER

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ADDENDUM 2 - 3.1.a

SECTION 07 52 00
MODIFIED BITUMINOUS MEMBRANE ROOFING

Regional Navigation Center

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Hot Applied 3-Ply Asphalt Roofing

1.2 SCOPE OF WORK

1. Test all drainage for proper function and watertightness.
2. Remove existing roofing system down to decking and dispose of properly.
3. Replace any rotted or damaged decking per building code with like kind.
4. Replace any missing counter flashing around parapet wall.
5. Add crickets and coverboard to any low spots to promote proper drainage.
6. Nail Type II base sheet to all decking, curbs and base flashings.
7. Install (2) plies of type IV felts in hot asphalt over nailed base sheet.
8. Install Stressbase 80 modified ply sheet on all flashings and angles.
9. Install new lead jacks around all pipe penetrations and drain flashing per manufactures details.
10. Install Stressply Plus FR Mineral cap sheet in hot asphalt over the field, curbs, perimeter flashings angles, etc. per manufactures details.
11. Allow 30 days of cure time, then apply white reflective acrylic Pyramic coating over all membrane at 2.0 gallons per square.
12. Install Cool-Sil Silicone coating 3’ OC in all drainage areas and waterways.
13. Contractor to provide 5-year workmanship warranty.

1.3 REFERENCES

A. ASTM E 108 - Standard Test Methods for Fire Test of Roof Coverings

B. Factory Mutual Research (FM): Roof Assembly Classifications.

C. National Roofing Contractors Association (NRCA): Roofing and Waterproofing Manual.

D. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - Architectural Sheet Metal Manual.

E. Underwriters Laboratories, Inc. (UL): Fire Hazard Classifications.

F. Intertek/Warnock Hersey (WH): Fire Hazard Classifications.

G. ANSI-SPRI ES-1 Wind Design Standard for Edge Systems used with Low Slope Roofing Systems.

H. ASCE 7, Minimum Design Loads for Buildings and Other Structures

I. UL - Fire Resistance Directory.

J. California Title 24 Energy Efficient Standards.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

A. Perform work in accordance with all federal, state and local codes.

B. Exterior Fire Test Exposure: Roof system shall achieve a WH Class rating for roof slopes indicated on the Drawings as follows:
1. Intertek/Warnock Hersey Class A Rating.

C. Design Requirements:
1. Uniform Wind Uplift Load Capacity
a. Installed roof system shall withstand negative (uplift) design wind loading pressures complying with the following criteria.
1) Design Code: ASCE 7, Method 2 for Components and Cladding.
2) Importance Category:
a) II.
3) Importance Factor of:
a) 1.0
4) Wind Speed: 105 mph
5) Exposure Category:
a) C.

D. LEED: Roof system shall meet the reflectivity and emissivity criteria to qualify for one point under the LEED credit category, Credit 7.2, Landscape & Exterior Design to Reduce Heat Island - Roof.

E. Roof system shall have been tested in compliance with the following codes and test requirements:
1. Cool Roof Rating Council:
a. CRRC Directory CRRC
2. International Code Council Evaluation Service (ICC-ES):
a. Membrane Systems
1) ESR

1.5 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation instructions.

B. Design Pressure Calculations: Submit design pressure calculations for the roof area in accordance with ASCE 7 and local Building Code requirements. Include a roof system attachment analysis report, certifying the system's compliance with applicable wind load requirements before Work begins. Report shall be by a Professional Engineer who has provided roof system attachment analysis for not less than 5 consecutive years.

C. Manufacturer's Certificates: Provide to certify products meet or exceed specified requirements.

D. Manufactures Inspections: Provide letter from corporate officer of manufacture stating intent to provide inspections (4) per week, during project as outlined in section 3.8 “Field Quality Control”.

E. Test Reports: Submit test reports, prepared by an independent testing agency, for all modified bituminous sheet roofing, indicating compliance with ASTM D5147. Testing must be performed at 77 deg. F. Tests at 0 deg. F will not be considered.

F. Manufacturer's Fire Compliance Certificate: Certify that the roof system furnished is approved by Warnock Hersey (WH) or approved third party testing facility in accordance with ASTM E108, Class A for external fire and meets local or nationally recognized building codes.

G. Manufacturer’s Certificates: Provide letter from manufacture stating contractor is approved to install manufactures system and receive warranty.

H. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic inspection and maintenance of all completed roofing work. Provide product warranty executed by the manufacturer. Assist Owner in preparation and submittal of roof installation acceptance certification as may be necessary in connection with fire and extended coverage insurance on roofing and associated work.

1.6 QUALITY ASSURANCE

A. Perform Work in accordance with NRCA Roofing and Waterproofing Manual.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified with documented ISO 9001 certification and minimum of twelve years of documented experience and must not have been in Chapter 11 bankruptcy during the last five years.

C. Installer Qualifications: Company specializing in performing Work of this section with minimum five years documented experience and a certified Pre-Approved Garland Contractor.

D. Installer's Field Supervision: Maintain a full-time Supervisor/Foreman on job site during all phases of roofing work while roofing work is in progress.

E. Manufacturer's Field Supervision: A representative of the roof system manufacturer must be present (insert days here) days per week during the roof system installation.

F. Product Certification: Provide manufacturer's certification that materials are manufactured in the United States and conform to requirements specified herein, are chemically and physically compatible with each other, and are suitable for inclusion within the total roof system specified herein.

G. Source Limitations: Obtain all components of roof system from a single manufacturer. Secondary products that are required shall be recommended and approved in writing by the roofing system Manufacturer. Upon request of the Architect or Owner, submit Manufacturer's written approval of secondary components in list form, signed by an authorized agent of the Manufacturer.

1.7 PRE-INSTALLATION MEETINGS

A. Convene minimum two weeks prior to commencing Work of this section.

B. Review installation procedures and coordination required with related Work.

C. Inspect and make notes of job conditions prior to installation:

1. Record minutes of the conference and provide copies to all parties present.
2. Identify all outstanding issues in writing designating the responsible party for follow-up action and the timetable for completion.
3. Installation of roofing system shall not begin until all outstanding issues are resolved to the satisfaction of the Architect.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging with labels intact until ready for installation.

B. Store all roofing materials in a dry place, on pallets or raised platforms, out of direct exposure to the elements until time of application. Store materials at least 4 inches above ground level and covered with "breathable" tarpaulins.

C. Stored in accordance with the instructions of the manufacturer prior to their application or installation. Store roll goods on end on a clean flat surface except store KEE-Stone HP and FB 60 rolls flat on a clean flat surface. No wet or damaged materials will be used in the application.

D. Store at room temperature wherever possible, until immediately prior to installing the roll. During winter, store materials in a heated location with a 50-degree F (10 degree C) minimum temperature, removed only as needed for immediate use. Keep materials away from open flame or welding sparks.

E. Avoid stockpiling of materials on roofs without first obtaining acceptance from the Architect/Engineer.

F. Adhesive storage shall be between the range of above 50-degree F (10 degree C) and below 80-degree F (27 degree C). Area of storage shall be constructed for flammable storage.

1.9 COORDINATION

A. Coordinate Work with installing associated metal flashings as work of this section proceeds.

1.10 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.11 WARRANTY

A. Upon completion of the work, provide the Manufacturer's written and signed Warranty, warranting that, if a leak develops in the roof during the term of this warranty, due to defective material or workmanship, the manufacturer shall provide the Owner, at the Manufacturer's expense, with the labor and material necessary to return the defective area to a watertight condition, in accordance with the terms of the Manufacturer's warranty, warranty requirements and limitations.
   1. Warranty Period: 30 years from date of acceptance (in accordance with manufacturer's applicable warranty.

B. Installer is to guarantee all work against defects in materials and workmanship for a period indicated following final acceptance of the Work.
   1. Warranty Period:
      a. 5 years from date of acceptance.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Garland Company, Inc. (The); 3800 E. 91st St., Cleveland, OH 44105. ASD. Toll Free: 800-321-9336. Phone: 216-641-7500. Fax: 216-641-0633. Web Site: www.garlandco.com or equal.

2.2 HOT APPLIED 3-PLY ASPHALT ROOFING - STRESSPLY

A. Nailable Base Sheet: One ply fastened to the deck per wind uplift calculations.
1. HPR Glasbase:

B. Base (Ply) Sheet: Two plies bonded to the prepared substrate with Interply Adhesive:
1. HPR Glasfelt:

C. Modified Cap (Ply) Sheet: One ply bonded to the prepared substrate with interply Adhesive.
1. StressPly Plus FR Mineral:

D. Interply Adhesive: (1, 2 and 3)
1. Generic Type III Asphalt:

E. Flashing Base Ply: One ply bonded to the prepared substrate with Interply Adhesive except for torch applied:
1. StressBase 80 Plus:

F. Flashing Cap (Ply) Sheet: One ply bonded to the prepared substrate with Interply Adhesive except for torch applied:
1. StressPly Plus FR Mineral:

G. Flashing Ply Adhesive:
1. Generic Type III Asphalt:

H. Surfacing:
1. Surface Coatings
a. Pyramic:
b. Cool-Sil:

2.3 EDGE TREATMENT AND ROOF PENETRATION FLASHINGS

A. Vents and Breathers: Heavy gauge aluminum and fully insulated vent that allows moisture and air to escape but not enter the roof system as recommended and furnished by the membrane manufacturer.

B. Pitch pans, Rain Collar 24 gauge stainless or 20oz (567gram) copper. All joints should be welded/soldered watertight. See details for design.

C. Drain Flashings should be 4lb (1.8kg) sheet lead formed and rolled.

D. Liquid Flashing - Tuff-Flash Plus LO: An asphaltic-polyurethane, low odor, liquid flashing material designed for specialized details unable to be waterproofed with typical modified membrane flashings.
1. Tensile Strength, ASTM D 412: 650 psi.
2. Elongation, ASTM D 412: 325%
3. Density @77 deg. F 8.3 lb/gal typical.

E. Fabricated Flashings:
1. Fabricated flashings and trim shall conform to the detail requirements of SMACNA

"Architectural Sheet Metal Manual" and/or the CDA Copper Development Association "Copper in Architecture - Handbook" as applicable.

F. Manufactured Roof Specialties:
1. Manufactured roof specialties shall conform to the detail requirements of SMACNA "Architectural Sheet Metal Manual" and/or the NRCA "Roofing and Waterproofing Manual" as applicable.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. Inspect and approve the deck condition, slopes and fastener backing if applicable, parapet walls, expansion joints, roof drains, stack vents, vent outlets, nailers and surfaces and elements.

C. Verify that work penetrating the roof deck, or which may otherwise affect the roofing, has been properly completed.

D. If substrate preparation and other conditions are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. General: Clean surfaces thoroughly prior to installation.
1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
2. Fill substrate surface voids that are greater than 1/4 inch wide with an acceptable fill material.
3. Roof surface to receive roofing system shall be smooth, clean, free from loose gravel, dirt and debris, dry and structurally sound.
4. Wherever necessary, all surfaces to receive roofing materials shall be power broom and vacuumed to remove debris and loose matter prior to starting work.
5. Do not apply roofing during inclement weather. Do not apply roofing membrane to damp, frozen, dirty, or dusty surfaces.
6. Fasteners and plates for fastening components mechanically to the substrate shall provide a minimum pull-out capacity of 300 lbs. (136 k) per fastener. Base or ply sheets attached with cap nails require a minimum pullout capacity of 40 lb. per nail.
7. Prime decks where required, in accordance with requirements and recommendations of the primer and deck manufacturer.

B. Wood Deck:
1. Dimensional wood deck shall be minimum 1 inch (25 mm) thick, knotholes and cracks larger than 1/4 inch shall be covered with sheet metal. All boards shall be appropriately nailed and have adequate end bearing to the centers of beams/rafters. Lumber shall be kiln dried.
2. Plywood shall be a minimum 15/32 inch (11.9 mm) thick and conform to the standards and installation requirements of the American Plywood Association (APA).
3. If no roof insulation is specified, provide a suitable dry sheathing paper, followed by an approved base sheet nailed appropriately for the specified roof system, with 1 inch (25 mm) diameter caps and annular nails unless otherwise required by the applicable Code or Approval agency.
4. Insulation is to be mechanically attached in accordance with the insulation manufacturer's recommendations unless otherwise required by the applicable Code.
5. In all retrofit roof applications, it is required that deck be inspected for defects. Any

defects are to be corrected per the deck manufacturer's recommendations and standards of the APA/Engineered Wood Association prior to new roof application.

6. Light metal wall ties or other structural metal exposed on top of the wood deck shall be covered with one ply of a heavy roofing sheet, such as HPR Glasbase Base Sheet, extending 2 inches to 6 inches (51 mm to 152 mm) beyond the metal in all directions. Nail in place before applying the base ply.

3.3 INSTALLATION - GENERAL

A. Install modified bitumen membranes and flashings in accordance with manufacturer's instructions and with the recommendations provided by the National Roofing Contractors Association's Roofing & Waterproofing Manual, the Asphalt Roofing Manufacturers Association, and applicable codes.

B. General: Avoid installation of modified bitumen membranes at temperatures lower than 40-45 degrees F. When work at such temperatures unavoidable use the following precautions:
   1. Take extra care during cold weather installation and when ambient temperatures are affected by wind or humidity, to ensure adequate bonding is achieved between the surfaces to be joined. Use extra care at material seam welds and where adhesion of the applied product to the appropriately prepared substrate as the substrate can be affected by such temperature constraints as well.
   2. Unrolling of cold materials, under low ambient conditions must be avoided to prevent the likelihood of unnecessary stress cracking. Rolls must be at least 40 degrees F at the time of application. If the membrane roll becomes stiff or difficult to install, it must be replaced with roll from a heated storage area.

C. Commence installation of the roofing system at the lowest point of the roof (or roof area), working up the slope toward the highest point. Lap sheets shingle fashion so as to constantly shed water

D. All slopes greater than 2:12 require back-nailing to prevent slippage of the ply sheets. Use ring or spiral-shank 1 inch cap nails, or screws and plates at a rate of 1 fastener per ply (including the membrane) at each insulation stop. Place insulation stops at 16 ft o.c. for slopes less than 3:12 and 4 feet o.c. for slopes greater than 3:12. On non-insulated systems, nail each ply directly into the deck at the rate specified above. When slope exceeds 2:12, install all plies parallel to the slope (strapping) to facilitate backnailing. Install 4 additional fasteners at the upper edge of the membrane when strapping the plies.

3.4 INSTALLATION HOT APPLIED ROOF SYSTEM

A. Base/Felt Ply(s): Install base sheet or felt plies in twenty-five (25) lbs (11.3kg) per square of bitumen shingled uniformly to achieve one or more plies over the entire prepared substrate. Shingle in direction of slope of roof to shed water on each area of roof. Do not step on base rolls until asphalt has cooled, fish mouths should be cut and patched.
   1. Lap ply sheet ends 8 inches (203 mm). Stagger end laps 2 inches (304mm) minimum.
   2. Install base flashing ply to all perimeter and projection details after membrane application.
   3. Extend plies 2 inches beyond top edges of cants at wall and projection bases.
   4. Install base flashing ply to all perimeter and projection details.
   5. Allow the one ply of base sheet to cure at least 30 minutes before installing the modified membrane. However, the modified membrane must be installed the same day as the base plies.

B. Modified Cap Ply(s): Solidly bond the modified membrane to the base layers with specified material at the rate of 25 to (30). (11-13kg) per 100 square feet.
   1. Roll must push a puddle of hot material in front of it with material slightly visible at all side laps. Use care to eliminate air entrapment under the membrane. Exercise care

during application to eliminate air entrapment under the membrane.
2. Apply pressure to all seams to ensure that the laps are solidly bonded to substrate.
3. Install subsequent rolls of modified membrane as above with a minimum of 4-inch (101 mm) side laps and 8-inch (203 mm) end laps. Stagger end laps. Apply membrane in the same direction as the previous layers but stagger the laps so they do not coincide with the laps of the base layers.
4. Apply hot material no more than 5 feet (1.5 m) ahead of each roll being embedded.
5. Extend membrane 2 inches (50 mm) beyond top edge of all cants in full moppings of the specified hot material.

C. Fibrous Cant Strips: Provide non-combustible perlite or glass fiber cant strips at all wall/curb detail treatments where angle changes are greater than 45 degrees. Cant may be set in approved cold adhesives, hot asphalt or mechanically attached with approved plates and fasteners.

D. Wood Blocking, Nailers and Cant Strips:
1. Provide nailers at all roof perimeters and penetrations for fastening membrane flashings and sheet metal components.
2. Wood nailers should match the height of any insulation, providing a smooth and even transition between flashing and insulation areas.
3. Nailer lengths should be spaced with a minimum 1/8-inch gap for expansion and contraction between each length or change of direction.
4. Nailers and flashings should be fastened in accordance with Factory Mutual "Loss Prevention Data Sheet 1 -49, Perimeter Flashing" and be designed to be capable of resisting a minimum force of 200 lbs/lineal foot in any direction.

E. Install in accordance with the SMACNA "Architectural Sheet Metal Manual" or the NRCA Roofing Waterproofing manual.

F. Termination Bar: Provide a metal termination bar or approved top edge securement at the terminus of all flashing sheets at walls and curbs. Fasten the bar a minimum of 8 inches (203 mm) o/c to achieve constant compression. Provide suitable, sealant at the top edge if required.

G. Flashing Base Ply: Install flashing sheets by the same application method used for the base ply.
1. Seal curb, wall and parapet flashings with an application of mastic and mesh on a daily basis. Do not permit conditions to exist that will allow moisture to enter behind, around or under the roof or flashing membrane.
2. Prepare all walls, penetrations, expansion joints and surfaces to be flashed with required primer at the rate of 100 square feet per gallon. Allow primer to dry tack free.
3. Adhere to the underlying base flashing ply with specified hot material unless otherwise noted in these specifications. Nail off at a minimum of 8 inches (203 mm) o.c. from the finished roof at all vertical surfaces.
4. Solidly adhere the entire sheet of flashing membrane to the substrate.
5. Coordinate counter flashing, cap flashings, expansion joints, and similar work with modified bitumen roofing work as specified.
6. Coordinate roof accessories, miscellaneous sheet metal accessory items, including piping vents and other devices with the roofing system work.

H. Flashing Cap Ply: Install flashing cap sheets by the same application method used for the cap ply.
1. Seal curb, wall, and parapet flashings with an application of mastic and mesh on a daily basis. Do not permit conditions to exist that will allow moisture to enter behind, around or under the roof or flashing membrane.
2. Prepare all walls, penetrations, expansion joints and where shown on the Drawings to be flashed with required primer at the rate of 100 square feet per gallon. Allow primer

to dry tack free.

3. Adhere to the underlying base flashing ply with specified flashing ply adhesive unless otherwise specified. Nail off at a minimum of 8 inches (203 mm) o.c. from the finished roof at all vertical surfaces.
4. Coordinate counter flashing, cap flashings, expansion joints and similar work with modified bitumen roofing work as specified.
5. Coordinate roof accessories, miscellaneous sheet metal accessory items with the roofing system work.
6. All stripping shall be installed prior to flashing cap sheet installation.
7. Heat and scrape granules when welding or adhering at cut areas and seams to granular surfaces at all flashings.
8. Secure the top edge of the flashing sheet using a termination bar only when the wall surface above is waterproofed or nailed 4 inches o.c. and covered with an acceptable counter flashing.
9. Seal all vertical laps of cap flashing ply with a three-course application of trowel-grade mastic and fiberglass mesh.

I. Surface Coatings: Apply roof coatings in strict conformance with the manufacturer's recommended procedures.

3.5 INSTALLATION EDGE TREATMENT AND ROOF PENETRATION FLASHING

A. Scupper Through Wall:
1. Inspect the nailer to ensure proper attachment and configuration.
2. Run base ply over nailer, into scupper hole and up flashing as in typical wall flashing detail. Assure coverage of all wood nailers.
3. Install a scupper box in a 1/4-inch (6 mm) bed of mastic. Assure all box seams are soldered and have a minimum 4-inch (101 mm) flange. Make sure all corners are closed and soldered. Prime scupper and allow to dry.
4. Fasten flange of scupper box every 3 inches (76 mm) o.c. staggered.
5. Strip in flange of scupper box with base flashing ply covering entire area with 6 inch (152 mm) overlap on to the field of the roof and wall flashing.
6. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
7. Install a second ply of thermoplastic flashing cap ply heat welded over the thermoplastic cap ply, 9 inches (228 mm) on to the field of the roof.
8. Heat weld a cover strip over all seams.

B. Scupper Through Wall (Overflow):
1. Inspect the nailer to ensure proper attachment and configuration.
2. Run base ply over nailer up the overflow, into the scupper hole and up flashing as in typical wall flashing detail. Assure coverage of all wood nailers.
3. Install scupper box in a 1/4-inch (6 mm) bed of mastic. Assure all box seams are soldered and have a minimum 4-inch (101 mm) flange. Make sure all corners are closed and soldered. Prime scupper and allow to dry.
4. Fasten flange of scupper box every 3 inches (76 mm) o.c. staggered.
5. Strip in flange scupper box with base flashing ply covering entire area with 6 inch (152 mm) overlap on to the field of the roof and wall flashing.
6. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
7. Install a second ply of thermoplastic flashing cap ply heat welded over the thermoplastic cap ply, 9 inches (228 mm) on to the field of the roof.
8. Heat weld a cover strip over all seams.

C. Reglet Mounted Counterflashing:
1. Minimum flashing height is 8 inches (203 mm) above finished roof height. Maximum flashing height is 24 inches. Prime vertical wall and allow to dry.

2. Set cant in bitumen. Run all base field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering wall set in bitumen with 6 inches (152 mm) on to the base field ply and set in bitumen.
4. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
5. Install the thermoplastic flashing ply in bitumen or foam over the base flashing ply, 9 inches (228 mm) on to the field of the roof.
6. Apply butyl tape to wall behind flashing. Secure termination bar through flashing, butyl tape and into wall. Alternatively use caulk to replace the butyl tape.
7. Cut reglet in masonry one joint above flashing.
8. Secure reglet counterflashing with expansion fasteners and caulk reglet opening.

D. Equipment Support:
1. Minimum curb height is 8 inches (203 mm) above finished roof height. Prime vertical and allow to dry.
2. Set cant in bitumen. Run all base field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering the curb set in bitumen with 6 inches (152 mm) on to the base field ply and set in bitumen.
4. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
5. Install the thermoplastic flashing ply in bitumen or foam over the base flashing ply, 9 inches (228 mm) on to the field of the roof.
6. Install pre-manufactured cover. Fasten sides at 24 inches (609 mm) o.c. with fasteners and neoprene washers. Furnish all joint cover laps with butyl tape between metal covers.
7. Set equipment on neoprene pad and fasten as required by equipment manufacturer.

E. Curb Detail/Air Handling Station:
1. Minimum curb height is 8 inches (203 mm) above finished roof height. Prime vertical and allow to dry.
2. Set cant in bitumen. Run all base field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering the curb set in bitumen with 6 inches (152 mm) on to the base field ply and set in bitumen.
4. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
5. Install the thermoplastic flashing ply in bitumen or foam over the base flashing ply, 9 inches (228 mm) on to the field of the roof.
6. Install pre-manufactured counterflashing with fasteners and neoprene washers or per manufacturer's recommendations.
7. Set equipment on neoprene pad and fasten as required by equipment manufacturer.

F. Skylight:
1. Minimum curb height is 8 inches (203 mm) above finished roof height. Prime vertical and allow to dry.
2. Set cant in bitumen. Run all base field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering wall set in bitumen with 6 inches (152 mm) on to the base field ply and set in bitumen.
4. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
5. Install the thermoplastic flashing ply in bitumen or foam over the base flashing ply, 9 inches (228 mm) on to the field of the roof.
6. Install pre-manufactured lens and fasten flashing sides at 8 inches (203 mm) o.c. with fasteners and neoprene washers.

G. Exhaust Fan:
1. Minimum curb height is 8 inches (203 mm) above finished roof height. Prime vertical

and allow to dry.
2. Set cant in bitumen. Run all base field plies over cant a minimum of 2 inches (50 mm).
3. Install base flashing ply covering wall set in bitumen with 6 inches (152 mm) on to the base field ply and set in bitumen.
4. Then install thermoplastic cap field ply run over the base flashing ply in bitumen or foam adhesive.
5. Install the thermoplastic flashing ply in bitumen or foam over the base flashing ply, 9 inches (228 mm) on to the field of the roof.
6. Install metal exhaust fan over the wood nailers and flashing to act as counterflashing. Fasten per manufacturer's recommendation.

H. Roof Drain:
1. Plug drain to prevent debris from entering plumbing.
2. Taper insulation to drain minimum of 24 inches (609 mm) from center of drain.
3. Run roof system base plies over drain. Cut out plies inside drain bowl.
4. Set lead/copper flashing (30-inch square minimum) in 1/4-inch bed of mastic. Run lead/copper into drain a minimum of 2 inches (50 mm). Prime lead/copper and allow to dry.
5. Install base flashing ply (40-inch square minimum) in bitumen.
6. Install thermoplastic cap ply (48-inch square minimum) in bitumen or foam adhesive.
7. Install clamping ring and assure that all plies are under the clamping ring.
8. Remove drain plug and install strainer.

3.6 CLEANING

A. Clean-up and remove daily from the site all wrappings, empty containers, paper, loose particles and other debris resulting from these operations.

B. Remove asphalt markings from finished surfaces.

C. Repair or replace defaced or disfigured finishes caused by Work of this section.

3.7 PROTECTION

A. Provide traffic ways, erect barriers, fences, guards, rails, enclosures, chutes, and the like to protect personnel, roofs and structures, vehicles and utilities.

B. Protect exposed surfaces of finished walls with tarps to prevent damage.

C. Plywood for traffic ways required for material movement over existing roofs shall be not less than 5/8 inch (16 mm) thick.

D. In addition to the plywood listed above, an underlayment of minimum 1/2 inch (13 mm) recover board is required on new roofing.

E. Special permission shall be obtained from the Manufacturer before any traffic shall be permitted over new roofing.

3.8 FIELD QUALITY CONTROL

A. Inspection: Provide manufacturer's field observations at intervals of at least (4) days per week.
1. Warranty shall be issued upon manufacturer's acceptance of the installation.
2. Field observations shall be performed by a Sales Representative employed full-time by the manufacturer and whose primary job description is to assist, inspect and approve membrane installations for the manufacturer.
3. Provide observation reports from the Sales Representative indicating procedures followed, weather conditions and any discrepancies found during inspection.

4. Provide a final report from the Sales Representative, certifying that the roofing system has been satisfactorily installed according to the project specifications, approved details and good general roofing practice.

3.9 SCHEDULES

A. Nailed Base Sheet:
1. HPR Glasbase: ASTM D 146 Type II Base Sheet, Asphalt coated fiberglass base sheet.
a. Meets or Exceeds ASTM D 146 Type II Performance Criteria.

B. Base (Ply) Sheet:
1. HPR Glasfelt: ASTM D 2178 Type IV, Asphalt saturated fiberglass felt.
a. Meets or Exceeds ASTM D 2178 Type IV Performance Criteria.

C. Modified Cap (Ply) Sheet:
1. StressPly Plus FR Mineral: 155 mil SBS (Styrene-Butadiene-Styrene) mineral surfaced, rubber modified roofing membrane reinforced with a fiberglass and polyester composite scrim. ASTM D 6162, Type III Grade G
a. Tensile Strength, ASTM D 5147
1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 310 lbf/in XD 310 lbf/in
2) 50 mm/min. @ 23 +/- 2 deg. C MD 54.25 kN/m XD 54.25 kN/m
b. Tear Strength, ASTM D 5147
1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 500 lbf XD 500 lbf
2) 50 mm/min. @ 23 +/- 2 deg. C MD 2224 N XD 2224 N
c. Elongation at Maximum Tensile, ASTM D 5147
1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 8% XD 8%
2) 50 mm/min. @ 23 +/- 2 deg. C MD 8% XD 8%
d. Low Temperature Flexibility, ASTM D 5147, Passes -30 deg. F (-34 deg. C)

D. Interply Adhesive:
1. Generic Type III Asphalt: Hot Bitumen, ASTM D 312, Type III steep asphalt having the following characteristics:
a. Softening Point 185 deg. F - 205 deg. F
b. Flash Point 500 deg. F
c. Penetration @ 77 deg. F 15-35 units
d. Ductility @ 77 deg. F 2.5 cm

E. Flashing Base Ply:
1. StressBase 80: 80 mil SBS (Styrene-Butadiene-Styrene) rubber modified roofing base sheet reinforced with a fiberglass scrim ASTM D 6163, Type I.
a. Tensile Strength, ASTM D 5147
1) 0.08 in/min. @ 0 +/-3.6 deg. F MD 140 lbf/in XD 100 lbf/in
2) 2 mm/min. @ -18 +/- -3 deg. C MD 24.5 kN/m XD 17.5 kN/m
b. Tear Strength, ASTM D 5147
1) 0.08 in/min. @ 0 +/- 3.6 deg. F MD 130 lbf XD 100 lbf
2) 2 mm/min. @ -18 +/- 3 deg. C MD 578 N XD 444 N
c. Elongation at Maximum Tensile, ASTM D 5147
1) 0.08 in/min. @ 0 +/- 3.6 deg. F MD 4 % XD 4 %
2) 2 mm/min. @ -18 +/- 3 deg. C MD 4 % XD 4 %
d. Low Temperature Flexibility, ASTM D 6163, Passes -40 deg. F (-40 deg. C)

F. Flashing Cap (Ply) Sheet:
1. StressPly Plus FR Mineral: 155 mil SBS (Styrene-Butadiene-Styrene) mineral surfaced, rubber modified roofing membrane reinforced with a fiberglass and polyester composite scrim. ASTM D 6162, Type III Grade G
a. Tensile Strength, ASTM D 5147

1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 310 lbf/in XD 310 lbf/in
2) 50 mm/min. @ 23 +/- 2 deg. C MD 54.25 kN/m XD 54.25 kN/m

b. Tear Strength, ASTM D 5147
1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 500 lbf XD 500 lbf
2) 50 mm/min. @ 23 +/- 2 deg. C MD 2224 N XD 2224 N

c. Elongation at Maximum Tensile, ASTM D 5147
1) 2 in/min. @ 73.4 +/- 3.6 deg. F MD 8% XD 8%
2) 50 mm/min. @ 23 +/- 2 deg. C MD 8% XD 8%

d. Low Temperature Flexibility, ASTM D 5147, Passes -30 deg. F (-34 deg. C)

G. Flashing Ply Adhesive:
1. Generic Type III Asphalt: Hot Bitumen, ASTM D 312, Type III steep asphalt having the following characteristics:
a. Softening Point 185 deg. F - 205 deg. F
b. Flash Point 500 deg. F
c. Penetration @ 77 deg. F 15-35 units
d. Ductility @ 77 deg. F 2.5 cm

H. Surfacing:
1. Surface Coatings:
a. Surfacing:
1) Pyramic: White elastomeric, acrylic roof coating:
a) Weight/Gallon 12 lbs./gal. (1.44 g/cm3)
b) Non-Volatile % (ASTM D 1644) 66% min
c) Reflectance 81%

END OF SECTION

SECTION 232300 - REFRIGERANT PIPING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Piping.

B. Refrigerant.

C. Moisture and liquid indicators.

D. Valves.

E. Strainers.

F. Check valves.

G. Pressure regulators.

H. Pressure relief valves.

I. Filter-driers.

J. Solenoid valves.

K. Expansion valves.

1.2 RELATED REQUIREMENTS

A. Section 078400 - Firestopping.

B. Section 083100 - Access Doors and Panels.

C. Section 099123 - Interior Painting.

D. Section 230719 - HVAC Piping Insulation.

E. Section 260583 - Wiring Connections: Electrical characteristics and wiring connections.

1.3 REFERENCE STANDARDS

A. AHRI 495 - Performance Rating of Refrigerant Liquid Receivers; 2005.

B. AHRI 710 (I-P) - Performance Rating of Liquid-Line Driers; 2009.

C. AHRI 730 (I-P) - Flow Capacity Rating of Suction Line Filters and Suction Line Filter Driers; 2013 (Reapproved 2014).

D. AHRI 760 (I-P) - Performance Rating of Solenoid Valves for Use with Volatile Refrigerants; 2014.

E. ASHRAE Std 15 - Safety Standard for Refrigeration Systems; 2024, with Addendum (2026).

F. ASHRAE Std 34 - Designation and Safety Classification of Refrigerants; 2024, with Addendum (2025).

G. ASME B16.22 - Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings; 2021.

H. ASME B16.26 - Cast Copper Alloy Fittings for Flared Copper Tubes; 2024.

I. ASME B31.5 - Refrigeration Piping and Heat Transfer Components; 2022.

J. ASME B31.9 - Building Services Piping; 2025.

K. ASME BPVC-IX - Boiler and Pressure Vessel Code, Section IX - Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators; 2025, with Errata.

L. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2024.

M. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2022.

N. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric); 2020.

O. ASTM B280 - Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service; 2023.

P. ASTM F708 - Standard Practice for Design and Installation of Rigid Pipe Hangers; 2024.

Q. AWS A5.8M/A5.8 - Specification for Filler Metals for Brazing and Braze Welding; 2019.

R. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2025, with Amendment (2026).

S. CMC 2025 – California Mechanical Code; 2025.

T. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation; 2025.

U. UL 207 - Standard for Refrigerant-Containing Components and Accessories, Nonelectrical; Current Edition, Including All Revisions.

V. UL 429 - Electrically Operated Valves; Current Edition, Including All Revisions.

1.4 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide general assembly of specialties, including manufacturers catalogue information. Provide manufacturers catalog data including load capacity.

1.5 QUALITY ASSURANCE

A. Designer Qualifications: Design piping system under direct supervision of a Professional Engineer experienced in design of this type of work.

PART 2 PRODUCTS

2.1 SYSTEM DESCRIPTION

A. Where more than one piping system material is specified ensure system components are compatible and joined to ensure integrity of system is not jeopardized. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.

B. Provide pipe hangers and supports in accordance with ASME B31.5 unless indicated otherwise.

C. Valves:

1. Use service valves on suction and discharge of compressors.

2. Use gauge taps at compressor inlet and outlet.

3. Use gauge taps at hot gas bypass regulators, inlet and outlet.

4. Use check valves on compressor discharge.

5. Use check valves on condenser liquid lines on multiple condenser systems.

D. Refrigerant Charging (Packed Angle) Valve: Use in liquid line between receiver shut-off valve and expansion valve.

E. Strainers:

1. Use line size strainer upstream of each automatic valve.

2. Where multiple expansion valves with integral strainers are used, use single main liquid line strainer.

3. On steel piping systems, use strainer in suction line.

4. Use shut-off valve on each side of strainer.

F. Pressure Relief Valves: Use on ASME receivers and pipe to outdoors.

G. Filter-Driers:

1. Use a filter-drier immediately ahead of liquid-line controls, such as thermostatic expansion valves, solenoid valves, and moisture indicators.

2. Use a filter-drier on suction line just ahead of compressor.

3. Use sealed filter-driers in lines smaller than 1/2 inch (13 mm) outside diameter.

4. Use sealed filter-driers in low temperature systems.

5. Use sealed filter-driers in systems utilizing hermetic compressors.

6. Use replaceable core filter-driers in lines of 1/2 inch (13 mm) outside diameter or greater.

7. Use replaceable core liquid-line filter-driers in systems utilizing receivers.

8. Use filter-driers for each solenoid valve.

H. Solenoid Valves:

1. Use in liquid line of systems operating with single pump-out or pump-down compressor control.

2. Use in liquid line of single or multiple evaporator systems.

3. Use in oil bleeder lines from flooded evaporators to stop flow of oil and refrigerant into the suction line when system shuts down.

2.2 REGULATORY REQUIREMENTS

A. Comply with ASME B31.9 for installation of piping system.

B. Welding Materials and Procedures: Comply with ASME BPVC-IX and applicable state labor regulations.

C. Welders Certification: In accordance with ASME BPVC-IX.

D. Products Requiring Electrical Connection: Listed and classified by UL, as suitable for the purpose indicated.

2.3 PIPING

A. Copper Tube: ASTM B280, H58 hard drawn or O60 soft annealed.

1. Fittings: ASME B16.22 wrought copper.

2. Joints: Braze, AWS A5.8M/A5.8 BCuP silver/phosphorus/copper alloy.

3. Push-to-Connect Fittings: Complying with UL 207.
   a. Manufacturers:
      1) Parker Hannifin - Sporlan Division; ZoomLock PUSH: www.parker.com/#sle.
      2) Substitutions: See Section 016000 - Product Requirements.

4. Mechanical Press Fittings: Double-pressed type complying with UL 207 and CMC-2025.
   a. Manufacturers:
      1) RLS, LLC; RLS Cu (Copper): www.rlspressfittings.com/#sle.
      2) Parker Hannifin - Sporlan Division; ZoomLock MAX: www.parker.com/#sle.
      3) Substitutions: See Section 016000 - Product Requirements.

B. Copper Tube to 7/8-inch (22 mm) OD: ASTM B88 (ASTM B88M), Type K (A), annealed.

1. Fittings: ASME B16.26 cast copper.

2. Joints: Flared.

3. Push-to-Connect Fittings: Complying with UL 207.
   a. Manufacturers:
      1) Parker Hannifin - Sporlan Division; ZoomLock PUSH: www.parker.com/#sle.
      2) Substitutions: See Section 016000 - Product Requirements.

4. Mechanical Press Sealed Fittings: Double pressed type complying with UL 207 and CMC-2025.
   a. Manufacturers:
      1) FNW; Copper Press: www.fnw.com/#sle.
      2) RLS, LLC; RLS Cu (Copper): www.rlspressfittings.com/#sle.
      3) Parker Hannifin - Sporlan Division; ZoomLock MAX: www.parker.com/#sle.
      4) Substitutions: See Section 016000 - Product Requirements.

C. Pipe Supports and Anchors:

1. Provide hangers and supports that comply with MSS SP-58.
   a. If type of hanger or support for a particular situation is not indicated, select appropriate type using MSS SP-58 recommendations.

2. Hangers for Pipe Sizes 1/2 to 1-1/2 Inch (13 to 38 mm): Malleable iron adjustable swivel, split ring.

3. Hangers for Pipe Sizes 2 Inches (50 mm) and Over: Carbon steel, adjustable, clevis.

4. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

5. Wall Support for Pipe Sizes to 3 Inches (75 mm): Cast iron hook.

6. Vertical Support: Steel riser clamp.

7. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

8. Copper Pipe Support: Carbon steel ring, adjustable, copper plated.

9. Hanger Rods: Mild steel threaded both ends, threaded one end, or continuous threaded.

10. Inserts: Malleable iron case of galvanized steel shell and expander plug for threaded connection with lateral adjustment, top slot for reinforcing rods, lugs for attaching to forms; size inserts to suit threaded hanger rods.

11. Rooftop Supports for Low-Slope Roofs: Steel pedestals with bases that rest on top of roofing membrane, requiring attachment to the roof structure with support fixtures as specified; and as follows:
    a. Bases: High density, UV tolerant, polypropylene or reinforced PVC.
    b. Base Sizes: As required to distribute load sufficiently to prevent indentation of roofing assembly.
    c. Steel Components: Stainless steel, or carbon steel hot-dip galvanized after fabrication in accordance with ASTM A123/A123M.
    d. Attachment/Support Fixtures: As recommended by manufacturer, same type as indicated for equivalent indoor hangers and supports; corrosion resistant material.

e. Height: Provide minimum clearance of 6 inches (150 mm) under pipe to top of roofing.

2.4 REFRIGERANT

A. Refrigerant: Use only refrigerants that have ozone depletion potential (ODP) of zero and global warming potential (GWP) of less than 50.

2.5 MOISTURE AND LIQUID INDICATORS

A. Indicators: Single port type, UL listed, with copper or brass body, flared or soldered ends, sight glass, color coded paper moisture indicator with removable element cartridge and plastic cap; for maximum temperature of 200 degrees F (93 degrees C) and maximum working pressure of 500 psi (3450 kPa).

2.6 VALVES

A. Manufacturers:

1. Hansen Technologies Corporation; _____: www.hantech.com/#sle.
2. Henry Technologies; _____: www.henrytech.com/#sle.
3. Flomatic Valves; _____: www.flomatic.com/#sle.
4. Parker Hannifin - Sporlan Division; _____: www.parker.com/#sle.
5. Substitutions: See Section 016000 - Product Requirements.

B. Diaphragm Packless Valves:

1. UL listed, globe or angle pattern, forged brass body and bonnet, phosphor bronze and stainless steel diaphragms, rising stem and handwheel, stainless steel spring, nylon seat disc, soldered or flared ends, with positive backseating; for maximum working pressure of 500 psi (3450 kPa) and maximum temperature of 275 degrees F (135 degrees C).

C. Packed Angle Valves:

1. Forged brass or nickel plated forged steel, forged brass seal caps with copper gasket, rising stem and seat with backseating, molded stem packing, soldered or flared ends; for maximum working pressure of 500 psi (3450 kPa) and maximum temperature of 275 degrees F (135 degrees C).

D. Ball Valves:

1. Two piece bolted forged brass body with teflon ball seals and copper tube extensions, brass bonnet and seal cap, chrome plated ball, stem with neoprene ring stem seals; for maximum working pressure of 500 psi (3450 kPa) and maximum temperature of 300 degrees F (149 degrees C).

E. Service Valves:

1. Forged brass body with copper stubs, brass caps, removable valve core, integral ball check valve, flared or soldered ends, for maximum pressure of 500 psi (3450 kPa).

2.7 STRAINERS

A. Manufacturers:

1. Hansen Technologies Corporation; _____: www.hantech.com/#sle.
2. Parker Hannifin - Sporlan Division; _____: www.parker.com/#sle.
3. Substitutions: See Section 016000 - Product Requirements.

B. Straight Line or Angle Line Type:

1. Brass or steel shell, steel cap and flange, and replaceable cartridge, with screen of stainless steel wire or monel reinforced with brass; for maximum working pressure of 430 psi (2960 kPa).

2.8 CHECK VALVES

A. Manufacturers:

1. Hansen Technologies Corporation; _____: www.hantech.com/#sle.
2. Parker Hannifin; _____: www.parker.com/#sle.
3. Substitutions: See Section 016000 - Product Requirements.

B. Globe Type:

1. Cast bronze or forged brass body, forged brass cap with neoprene seal, brass guide and disc holder, phosphor-bronze or stainless steel spring, teflon seat disc; for maximum temperature of 300 degrees F (149 degrees C) and maximum working pressure of 425 psi (2930 kPa).

C. Straight Through Type:

1. Brass body and disc, phosphor-bronze or stainless steel spring, neoprene seat; for maximum working pressure of 500 psi (3450 kPa) and maximum temperature of 200 degrees F (93 degrees C).

2.9 PRESSURE REGULATORS

A. Manufacturers:

1. Hansen Technologies Corporation; _____: www.hantech.com/#sle.
2. Parker Hannifin; _____: www.parker.com/#sle.
3. Substitutions: See Section 016000 - Product Requirements.

B. Brass body, stainless steel diaphragm, direct acting, adjustable over 0 to 80 psi (0 to 550 kPa) range, for maximum working pressure of 450 psi (3100 kPa).

2.10 PRESSURE RELIEF VALVES

A. Manufacturers:

1. Hansen Technologies Corporation; _____: www.hantech.com/#sle.
2. Henry Technologies; _____: www.henrytech.com/#sle.
3. Sherwood Valve/Harsco Corporation; _____: www.sherwoodvalve.com/#sle.
4. Substitutions: See Section 016000 - Product Requirements.

B. Straight Through or Angle Type: Brass body and disc, neoprene seat, factory sealed and stamped with ASME UV and National Board Certification NB, selected to ASHRAE Std 15, with standard setting of 235 psi (1620 kPa).

2.11 FILTER-DRIERS

A. Manufacturers:

1. Flow Controls Division of Emerson Electric; _____: www.emersonflowcontrols.com/#sle.
2. Parker Hannifin - Sporlan Division; Catch-All; _____: www.parker.com/#sle.
3. Substitutions: See Section 016000 - Product Requirements.

B. Cores: Molded or loose-fill molecular sieve desiccant compatible with refrigerant, activated alumina, activated charcoal, and filtration to 40 microns, with secondary filtration to 20 microns; of construction that will not pass into refrigerant lines.

C. Construction: UL listed.

1. Replaceable Core Type: Steel shell with removable cap.
2. Sealed Type: Copper shell.
3. Connections: As specified for applicable pipe type.

2.12 SOLENOID VALVES

A. Manufacturers:

1. Flow Controls Division of Emerson Electric; _____: www.emersonflowcontrols.com/#sle.
2. Parker Hannifin - Sporlan Division; _____: www.parker.com/#sle.
3. Substitutions: See Section 016000 - Product Requirements.

B. Valve: AHRI 760 (I-P), pilot operated, copper, brass or steel body and internal parts, synthetic seat, stainless steel stem and plunger assembly (permitting manual operation in case of coil failure), integral strainer, with flared, soldered, or threaded ends; for maximum working pressure of 500 psi (3450 kPa).

C. Coil Assembly: UL 429 UL listed, replaceable with molded electromagnetic coil, moisture and fungus proof, with surge protector and color coded lead wires, integral junction box with pilot light.

2.13 EXPANSION VALVES

A. Manufacturers:

1. Parker Hannifin - Sporlan Division; _____: www.parker.com/#sle.

2. Substitutions: See Section 016000 - Product Requirements.

B. Angle or Straight Through Type: AHRI 760 (I-P); design suitable for refrigerant, brass body, internal or external equalizer, bleed hole, adjustable superheat setting, replaceable inlet strainer, with nonreplaceable capillary tube and remote sensing bulb and remote bulb well.

C. Selection: Evaluate refrigerant pressure drop through system to determine available pressure drop across valve. Select valve for maximum load at design operating pressure and minimum 10 degrees F (6 degrees C) superheat. Select to avoid being undersized at full load and excessively oversized at part load.

PART 3 EXECUTION

3.1 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and dirt on inside and outside before assembly.

C. Prepare piping connections to equipment with flanges or unions.

3.2 INSTALLATION

A. Install refrigeration specialties in accordance with manufacturer's instructions.

B. Route piping in orderly manner, with plumbing parallel to building structure, and maintain gradient.

C. Install piping to conserve building space and avoid interference with use of space.

D. Group piping whenever practical at common elevations and locations. Slope piping one percent in direction of oil return.

E. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

F. Inserts:

1. Provide inserts for placement in concrete formwork.
2. Provide inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams.
3. Provide hooked rod to concrete reinforcement section for inserts carrying pipe over 4 inches (100 mm).
4. Where concrete slabs form finished ceiling, locate inserts flush with slab surface.
5. Where inserts are omitted, drill through concrete slab from below and provide through-bolt with recessed square steel plate and nut above slab.

G. Pipe Hangers and Supports:

1. Install in accordance with ASME B31.5.
2. Support horizontal piping as indicated.
3. Install hangers to provide minimum 1/2 inch (13 mm) space between finished covering and adjacent work.
4. Place hangers within 12 inches (300 mm) of each horizontal elbow.
5. Support vertical piping at every other floor. Support riser piping independently of connected horizontal piping.
6. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.
7. Provide copper plated hangers and supports for copper piping.

H. Arrange piping to return oil to compressor. Provide traps and loops in piping, and provide double risers as required. Slope horizontal piping 0.40 percent in direction of flow.

I. Provide clearance for installation of insulation and access to valves and fittings.

J. Provide access to concealed valves and fittings. Coordinate size and location of access doors with Section 083100.

K. Flood piping system with nitrogen when brazing.

L. Where pipe support members are welded to structural building frame, brush clean, and apply one coat of zinc rich primer to welding.

M. Prepare unfinished pipe, fittings, supports, and accessories ready for finish painting. See Section 099123.

N. Follow ASHRAE Std 15 procedures for charging and purging of systems and for disposal of refrigerant.

O. Provide replaceable cartridge filter-driers, with isolation valves and valved bypass.

P. Locate expansion valve sensing bulb immediately downstream of evaporator on suction line.

Q. Provide external equalizer piping on expansion valves with refrigerant distributor connected to evaporator.

R. Install flexible connectors at right angles to axial movement of compressor, parallel to crankshaft.

S. Fully charge completed system with refrigerant after testing.

T. Provide electrical connection to solenoid valves. See Section 260583.

3.3 FIELD QUALITY CONTROL

A. See Section 014000 - Quality Requirements, for additional requirements.

B. Test refrigeration system in accordance with ASME B31.5.

C. Pressure test system with dry nitrogen to 200 psi (1380 kPa). Perform final tests at 27 inches (92 kPa) vacuum and 200 psi (1380 kPa) using halide torch. Test to no leakage.

3.4 SCHEDULES

A. Hanger Spacing for Copper Tubing.

1. 1/2 inch (13 mm), 5/8 inch (16 mm), and 7/8 inch (22 mm) OD: Maximum span, 5 feet (1500 mm); minimum rod size, 1/4 inch (6.3 mm).

2. 1-1/8 inch (29 mm) OD: Maximum span, 6 feet (1800 mm); minimum rod size, 1/4 inch (6.3 mm).

END OF SECTION 232300

28 13 00 – Access Control Software and Database Management

28 14 00 – Access Control System Hardware

March 2026

Specifications

This Architectural and Engineering Specifications document utilizes MasterFormat™ Titles and Numbers 2020 Edition and SectionFormat™/PageFormat™ 2009 Edition standards by the Construction Specifications Institute (CSI) and adopted under license by Construction Specifications Canada (CSC).

This document specifies the architectural/engineering and bid criteria for a Cloud-Based Physical Access Control System and related hardware.

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Notes to Specifier

1. Where several alternative parameters or specifications exist, or where the Specifier has the option of inserting text, such choices are presented in **bold red text** or explained in <bracketed red text>. Edit or delete these.
2. Explanatory notes and comments are presented in red hidden text. Delete these when no longer needed.
3. Delete any item or paragraph that is not applicable to this project, renumber the paragraphs. Insert additional provisions as required for this project.

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SECTION 28 13 00
ACCESS CONTROL SOFTWARE AND DATABASE MANAGEMENT

PART 1 – GENERAL

1.1. SUMMARY

A. Section Includes:

1. Description of architecture and functionality for a cloud-managed personal-credential-centered Cloud-Based Physical Access Control System (or just “system” for short) for use in single-site LAN-based to multi-site WAN-based deployments utilizing private business networks, wireless IP-based cellular networks, and the Internet, with optional integrations to video surveillance, intrusion detection, perimeter protection and other physical security systems and devices, building automation systems, single and multi-tenant residential automation systems, on-site video recording platforms, plus networkable IoT sensors and sensor systems.
2. Design criteria for capabilities that the system must provide.
3. Design requirements for performance, functionality, and system characteristics that the system be designed to meet.
4. Detailed specifications for the system software that is being provided as a service.

B. General:

1. “System” or “system” refers to the entire Cloud-Based Physical Access Control System and is also used separately as a qualifier like “system manufacturer”, “system requirements”, “system software”, system hardware”, “system Web App” and “system Mobile App.”
2. Section 28 14 00 that follows provides System hardware specifications.

C. Specifications Language and Terms:

1. Imperative language is directed to Manufacturer and specifies required product design requirements, functionality or performance capabilities, unless otherwise noted.
2. “Customer” is used to refer to the Owner and Owner’s personnel is not capitalized as it is used in a business operational context rather than the owner-contractor or owner-architect contractual context.

1.2. RELATED SECTIONS

A. 28 14 00 – Access Control System Hardware (contained in this document).

1.3. REFERENCES

A. Abbreviations and Acronyms:

1. AES: Advanced Encryption Standard.

2. BLE: Bluetooth Low Energy.
3. DHCP: Dynamic Host Configuration Protocol.
4. DNS: Domain Name System.
5. HTTP: Hypertext Transfer Protocol.
6. IEC: Independent Edge Controller.
7. IP: Internet Protocol.
8. IAM: Identity and Access Management.
9. IDM: Identity Management.
10. IPAC: Internet Protocol Access Control.
11. ISO: International Standards Organization.
12. LAN: Local Area Network.
13. NIST: National Institute of Standards and Technology.
14. PACS: Physical Access Control System.
15. PII: Personally Identifiable Information.
16. PoE: Power over Ethernet.
17. RPC: Remote Procedure Call.
18. SaaS: Software as a Service.
19. SDC: Security Door Controller.
20. SIA: Security Industry Association.
21. SSO: Single Sign-on.
22. SSH: Secure Shell.
23. TLS: Transport Layer Security.
24. UI: User Interface.
25. UL: Underwriters Laboratories.
26. ULC: Underwriters Laboratories of Canada.
27. WAN: Wide Area Network.

B. Definitions:

1. *Antipassback:* Antipassback controls are intended to prevent an authorized user from bypassing access control for another individual, by passing back an access credential (card or mobile device) after using it to allow an accompanying individual to present the same credential and gain access.
2. *Application Programming Interface (API):* Documented set of definitions and protocols for developing integrations between networked software applications, including software running on IoT devices.
3. *Availability Zones:* Physically separate datacenter locations within each data center geographical region that are tolerant to local failures. Failures can range from software and hardware failures to events such as earthquakes, floods, and fires. Availability zones must be

designed so that if one zone is affected, cloud services, capacity, and high availability are fully supported by at least two other zones within the geographical region.

4. *Biometric:* Unique identifying physical or physiological characteristic of an individual that can be used to identify that individual, such as a facial image or fingerprint.
5. *Brivo Hardware*: Hardware manufactured by or on behalf of Brivo, branded with Brivo's trademarks and sold by Brivo or a Brivo Reseller for use in connection with the Brivo System.
6. *BUS:* Short for communication bus, a collection of wires forming a communication system that transfers data between components inside a computer, or between computers.
7. *CAN BUS:* Controller area network (CAN) communication bus standard designed to allow microcontrollers and devices to communicate with each other's applications without a host computer.
8. *Cloud-Native Software:* Web application developed specifically for deployment as a cloud service, designed per the NIST five essential characteristics of cloud computing.
9. *Container*: A discrete computing environment for running software code, typically set up with only those parts of an operating system and other code libraries that are necessary for the software code to run correctly. A container may hold a complete application, a set of software functions, or a single function that performs just one task – such as responding to an access control system event. Each container is autonomous, can be launched in milliseconds, and runs in its own isolated environment, ensuring it does not disrupt other running applications or its underlying system. For example, in a physical access control cloud application supporting tens of millions of users and millions of card reader events per day, parallel processing using containers is a critical element of high performance.
10. *Credential:* Piece of information, usually digital, which serves as a means of identifying a user to an access control system for the purposes of authenticating the user and determining what that user's permissions are within the system. In a physical access control system, credentials are typically PIN codes, smart card encoded values, biometric data, mobile credentials, etc.
11. *Destination Dispatch:* Destination dispatch is an optimization technique used for multi-elevator installations, in which groups passengers heading to the same destinations use the same elevators, thereby reducing waiting and travel times. Using destination dispatch, passengers request travel to a particular floor using a keypad, touch screen, or electronic credential prior in the lobby and are immediately directed to an appropriate elevator car.
12. *Digital Certificate:* Electronic document, issued by a Certificate Authority, for uniquely identifying a party (such as a software application or hardware device) in a networked communication session.
13. *General Data Protection Regulation (GDPR):* Regulation in European Union (EU) law on data protection and privacy in the EU and the European Economic Area (EEA). It also addresses the transfer of personal data outside the EU and EEA areas.
14. *IOT-Native Device:* Networkable cybersecure device specifically engineered to operate independently and communicate via local network and/or continuous, periodic or ad-hoc Internet connection.
15. *LEAF Consortium:* Association of industry manufacturers whose purpose is to foster interoperability in the access control and identity credentials markets.
16. *National Institute of Standards and Technology (NIST):* U.S. federal technology agency that works with industries to develop and apply technology, measurements, and standards.

17. *Principle of Least Privilege:* Information security concept in which a user is given the minimum levels of access – or permissions – needed to perform the user's job functions.
18. *Representational State Transfer (REST):* Set of architectural guidelines for the design and development of HTTP-based communications between computer systems on the web.
19. *Reader:* One of the several types of devices, mounted at a facility door or gate, or in an elevator cab or elevator lobby, which serves as an input device for credentials such as smartcards, PIN codes, biometrics, mobile credentials, etc.
20. *RESTful API:* API that conforms to the constraints of REST architectural guidelines.
21. *Serverless:* Serverless is a cloud-native development model that allows developers to build and run applications without having to manage individual virtual or physical servers directly, which are managed by the cloud service provider, chiefly through highly cost-effective automation. Serverless apps may be deployed in containers (see definition above) that automatically launch on demand when called.
22. *Single Sign-On (SSO):* Single Sign-On occurs when a user logs in (signs on) to one application or system, and is then automatically logged in to other applications or systems during the same session, regardless of the application, system, domain or network the user accesses during the session.
23. *System Administrator:* Individual who has the ability to login to an account and, based on assigned roles, view or change account information and perform manual access control actions.
24. *User:* Individual to whom a system access credential is provided that the access control system uses to perform authentication of the user and provide authorized access.
25. *X.509:*Standard for a public key infrastructure (PKI) to manage digital certificates and public-key encryption.

C. Reference Standards:

1. NIST Special Publication 800-145, The NIST Definition of Cloud Computing.
2. UL294 Underwriter Laboratory Safety Standard 294 for Access Control System Units.

1.4. QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer shall:
    a. Regularly and presently provide, as the manufacturer's principal cloud-based service, the Cloud-Based Physical Access Control System Software specified for this project.
    b. Have at least 15 years of deployment experience in providing Physical Access Control Software as a Service per the NIST Definition of Cloud Computing.
    c. Be a multi-national company with Cloud-Based Physical Access Control System deployments in at least 30 countries, with over 20 million active users, and over 50,000 deployments.
    d. Have at least 10 years of successfully-passed independent cybersecurity audits of its cloud-based system software platform, including SOC 2 Type 2 audits.
    e. Have an authorized dealer network consisting of at least 1,000 companies with technical certification from the Manufacturer, operating in all fifty US States, Europe, Latin America, and Asia.

2. Contractors shall:

   a. Provide evidence that installing service provider is an authorized dealer in good standing for the product's manufacturer, and that service provider meets the manufacturer's technical certification requirements.

   b. Have at least 5 years of experience deploying and maintaining installing and servicing systems of similar scope and complexity.

   c. Ensure installing/servicing technicians have minimum of five continuous years of technical experience in electronic security systems.

   d. Provide four current client references for systems of similar scope and complexity which became operational in past three years.

      1) References shall include current point of contact, company or agency name, address, telephone number, complete system description, date of completion, and approximate cost of the project.

      2) Owner reserves option to visit the reference sites, with the site owner's permission and representative, to verify the quality of installation and the reference's level of satisfaction with the system.

   e. Be properly licensed to install and service physical access control system equipment as required by the authorities having jurisdiction in the location where customer's physical access control system will be installed.

   f. Maintain service facility local to site where customer's physical access control system will be installed ("project site").

      1) Facility shall:

         a) Be located within 60 miles of project site.

         b) Maintain sufficient spare parts inventory to support the service requirements associated with project site.

         c) Include appropriate diagnostic equipment to perform diagnostic procedures.

      2) Owner's Representative reserves option to survey service facilities to verify the service inventory and presence of a local service organization.

1.5. PRODUCT STANDARDS

A. Provide at time of installation, latest version of all equipment and software.

   1. Discontinued equipment shall not be acceptable.

1.6. DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's labeled packages**.** Store and handle in accordance with manufacturer's requirements**.**

1.7. CODE REQUIREMENTS

A. System shall be installed in accordance with all applicable national, state, provincial, regional and local codes and standards. All equipment shall be U.L. listed or meet U.L. requirements for its intended use.

1.8. COMPLETION

A. Contractor shall substantially complete system installation by target date established by Owner.

1.9. SITE CONDITIONS

A. Ambient ConditionsExisting Conditions

1.10. WARRANTY

A. Manufacturer shall warrant that its branded hardware products are free from defect in materials and workmanship for at least one year from the date of shipment.

1.11. SUPPORT

A. Manufacturer Support:

1. For the duration of the System subscription, automatically provide documented feature and security updates to cloud-based System software and Mobile Apps at no additional charge. Software, Mobile App and firmware updates shall be provided on a continuous basis.
2. Provide direct live telephone technical support free of charge both to end users and installing/maintaining security services contractors.
3. Provide optional additional-cost professional services for on-site deployment support to installing/maintaining services firm.

B. *Maintenance and Service:* Servicing firm shall:

1. General Requirements:
   a. Provide all services required and equipment necessary to maintain the entire integrated electronic security system in an operational state as specified for a period of one year after formal written acceptance of the system**.** Provide all necessary material required for performing scheduled adjustments or other non-scheduled work**.** Minimize impacts on facility operations when performing scheduled adjustments or other non-scheduled work**.**
2. Description of Work:
   a. Provide adjustment and repair of the Cloud-Based Physical Access Control System on-site equipment consistent with Manufacturer guidance and instructions.
3. Personnel:
   a. Ensure service personnel are certified in the maintenance and repair of the selected type of equipment and qualified to accomplish all work promptly and satisfactorily**.**
4. Schedule of Work:
   a. Perform work during regular working hours, Monday through Friday, excluding federal holidays.

5. Emergency Service:
    a. Provide staffed emergency service center service 24 hours a day 365 days a year**.** Provide emergency service center telephone number for the Owner to request service when system is not functioning properly**.** Owner has sole authority for determining catastrophic and non-catastrophic system failures within parameters stated in General Project Requirements.
    b. For catastrophic system failures, provide same day four-hour service response with a defect correction time not to exceed eight hours from [notification] [OR] [arrival on site]**.** Catastrophic system failures are defined as any system failure that Owner determines will place the security of one or more sites at increased risk**.**
    c. For non-catastrophic failures, provide eight-hour service response with a defect correction time not to exceed 24 hours from notification**.**
6. Operation:
    a. In performance of scheduled adjustments and repair, at completion of work document the following:
        1) For routine maintenance, briefly describe the work done.
        2) For problem resolution, describe the problem, the troubleshooting work done, root cause discovered, and remedial action taken.
        3) Verify operation of the system relative to any changes, repairs or part replacements made.

PART 2 – PRODUCTS

2.1. OWNER-FURNISHED PRODUCTS

CLOUD-BASED PHYSICAL ACCESS CONTROL SYSTEM

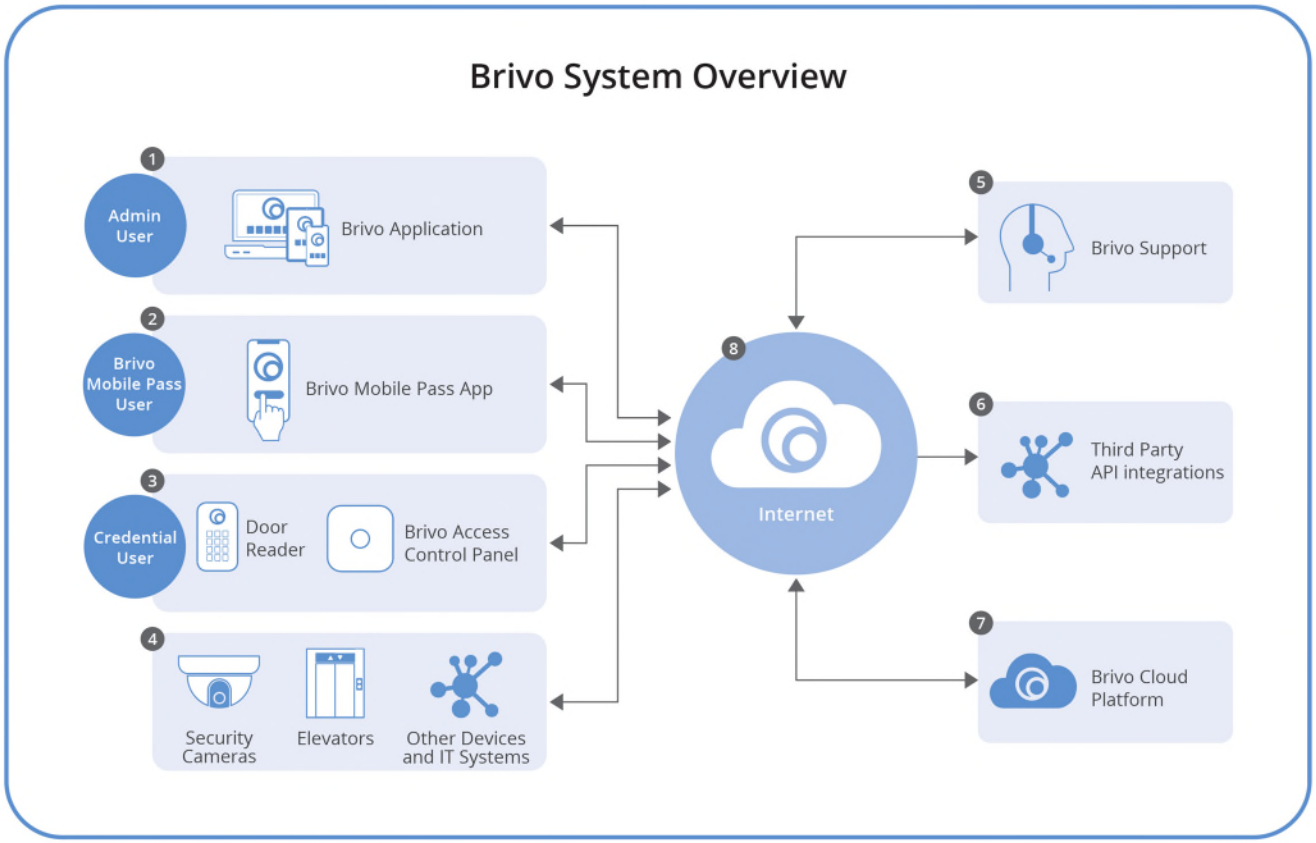
A. Manufacturer:

1. Brivo Systems, LLC
    a. *Headquarters:* 7700 Old Georgetown Rd, Suite 300, Bethesda, MD 20814.
    b. *Telephone:* (+44) 2081 329 232.
    c. *Website:* www.brivo.com.
2. *Substitution Limitations:* No Substitutions.
3. *Product Brand Name:* Brivo Access.
4. Certifications:
    a. *MET Labs:* UL294.
    b. Additional hardware certifications included in each hardware SECTION.

B. *System Overview:* There are eight major components to the Brivo Access system, as numbered below and depicted in Figure 1 below, with descriptions included in the System Architecture paragraph that follows.

1. Brivo Access application (available via web browser and mobile application).
2. Brivo Mobile Pass credentials (optional).
3. Access control hardware installed on customer network used with physical credentials.
4. Connections to other devices and IT systems.
5. Brivo employees providing support, maintenance, and continuous cloud application infrastructure monitoring.
6. Third party API Integrations.
7. Brivo services are hosted with major cloud service providers.
8. Network communications via Internet.

Figure 1. System Overview diagram



C. *System Architecture:* System contains the architectural elements described below and illustrated in Figure 1. System design supports legacy readers and sensors for backwards compatibility with in-place access control device infrastructure but provides higher levels of systems security and modern user experience, such as hands-free use of mobile device-based credentials.

1. Cloud-Based Physical Access Control System Applications:

   a. *Brivo Web Application (Web App):* Primary system software application named Brivo Access and is the software commonly referred to as “Brivo” for short. Full-featured web

browser-based cloud native application for system and device management and control functions. See 2.3 CLOUD-BASED PHYSICAL ACCESS CONTROL SYSTEM SOFTWARE on page 13 for specifications.

b. *Partner Portal:* Web application for use by licensed dealers to perform subscriber account setup and installation and service actions.

c. *User Mobile Applications (Mobile Apps):* Optional iOS and Android native applications providing a subset of Web App user functionality.

d. *Installer Mobile Applications:* iOS and Android native applications for setting up system hardware.

e. *Mobile Credential Application:* iOS and Android native applications for use of Brivo mobile credentials instead of physical credential to gain access, with optional mobile device face or fingerprint biometric for multi-factor authentication. Biometric authentication at the moment of door access will still be required even if the user already logged into the mobile device biometrically.

f. *Open API:* Open RESTful API used by the system and made available to systems integrators, developers and customers for purposes of business system, third-party services and device integration.

g. Third-Party Custom Integrations:

1) All custom integrations are based on Brivo open API.

2) *Existing Third-Party Integrations:* Including, for example, elevator destination dispatch systems and IDM and IAM systems with single sign-on functionality.

3) *Customer Custom Integrations:* Typically to customer business systems and developed by Brivo technology partners, licensed dealers or customer IT personnel or service providers.

2. On-Premise Hardware:

a. *Brivo Hardware:* Hardware made by Brivo, or for Brivo and branded as a Brivo product.

1) *Control Panels:* Provides local connectivity to readers and I/O boards.

2) *Cellular Modules:* Provides cloud system Internet connectivity where a LAN is not available.

3) *I/O Expansion Boards:* Provides additional low voltage inputs and relay outputs.

4) *Reader Expansion Boards:* Provides control for additional readers.

5) Readers:

a) Legacy Wiegand/Proximity Wired Readers.

b) Smart Card Readers.

c) Wireless Locksets.

b. *Third-Party Hardware:* Compatible hardware devices and systems manufactured and sold by others:

1) *Mercury Access Control System Hardware:* Control panels, I/O and reader boards by Mercury Security Corporation.

2) *On-premises Integration Servers:* Such as for elevator destination dispatch system integration.

3) *Security Systems and Devices:* Such as intrusion detection and perimeter protection systems, alarm management systems, detection sensor systems, devices for motion, smoke and water detection, etc.

4) *Smart Locks:* Commercial and residential smart door locks.

3. User Smart Mobile Devices:

   a. Mobile Apps on mobile devices provide remote system administration and control.

   b. Digital credentials on mobile devices replace credential cards and fobs.

4. On-Premise Ethernet Networks:

   a. *Device LANs:* Connect on-premises equipment, provide Internet connection for cloud-managed devices.

   b. *User LANs / WiFi:* Provide Internet connection to for Web App use.

5. Secure Cloud Data Centers:

   a. *Secure Distributed Data Centers:* Tier 4 data centers having at least 2,000 miles of separation for geographical redundancy.

D. Design Criteria.

1. Principle of Least Privilege Application:

   a. *Role-Based System Administrator Privileges:* Provide a highly granular roles-based privilege scheme for system administrators, so that no administrators need be assigned more privileges than they need to perform the administrative access management job duties assigned to them.

      1) Allow the scope of administrator privileges to be assignable to specific sites and user group, allowing administrator's permissions to vary across sites and user groups.

      2) Allow delegation of administrative duties by allowing some administrators to assign roles to other administrators, allowing the delegation of the same or lesser privileges than the delegator has.

   b. *Credential User Access Privileges:* Allow any number of access privilege groups (access groups) to be defined, and allow credential users to be members of up to 16 access groups, to provide sufficient flexibility in access privilege assignment that no credential holder needs be assigned more access than is required per job duties.

2. *IoT Native Development:* The system shall be an IoT Native system, whose cloud and on-premise computing and communication components are designed from the ground up as secure cloud and cloud-connected system elements.

3. *Online Help:* Provide detailed online help at https://help.access.brivo.com/.

E. *System Capacities:* Provide the overall system capacities shown in Table 1 below. Capacities of on-site hardware components are provided in Section 28 14 00.

Table 1. System Capacities

Item	**Capacity**
Doors	Unlimited
Elevator Floors – Destination Dispatch	118 per elevator
Elevator Floors – Relay Interface	116 per controller system
Readers	Unlimited

Item	Capacity
System Administrators	Unlimited
System Administrator Roles	Limited only by practicality of Role usefulness
Users (Credential Holders)	Unlimited
Credentials in System	Unlimited
Credentials per User	Unlimited
Bulk Card Entry	1000 per batch of Cards to add
Bulk Card Deletion	20,000 per batch of Cards to delete
Badges per User	Unlimited
Maximum Access Groups Membership per User	16
Custom Data Fields per User	60
Time Zones	Unlimited
Door Lock/Unlock Schedules	Unlimited
Access Groups	Limited only by practicality of Access Group usefulness
Schedules	Limited only by practicality of Schedule usefulness
Holidays per Schedule	Limited only by practicality of Holiday usefulness
Exceptions per Schedule	Limited only by practicality of Exception usefulness

2.3. CLOUD-BASED PHYSICAL ACCESS CONTROL SYSTEM SOFTWARE

A. *Description:* Cloud-based Software-as-a-Service offering (system software) for configuration, management and monitoring of physical access control for buildings and properties. System software interacts with cloud-managed on-site access control system hardware and other systems and devices, with integration options for video surveillance, intrusion detection, perimeter protection and other physical security systems and devices, building automation systems, single and multi-tenant residential automation systems, plus networkable IoT sensors and sensor systems. Functionality includes AI deep-learning based activity anomaly detection.

1. System software is compatible with Internet Explorer 11 and recent versions of Firefox, Chrome, and Safari browsers.
2. System supports variety of credential types including proximity cards, smart cards, and mobile digital credentials.
3. Native mobile applications (Mobile Apps) for Android and iOS devices are provided.

B. *System Software Functionality:* System software functionality is accessed from starting with the software's Main Menu. The software's required functionality, as well as the main menu used to access it, are described below.

1. *Accounts:* Accounts define software user access to system configuration, management, monitoring and control capabilities.
2. *Span of Control:* Accounts establish spans of system administrator control, with each account exclusively assigned a group of affiliated control panels under the management of a single Primary Administrator.
    a. *No System Size Limitation:* Any number of controls panels may be added to an account, so span of control may comprise a small building with single control panel, a large building with multiple control panels, or multiple buildings located in different cities or countries.
    b. *Flexible Time Information Management:* To accommodate the management needs of different types and scopes of administrator work, there are two ways to display Activity time information, Site Time and My Time.
        1) *Site Time:* Time stamps throughout an account reflect each site's time zone.
        2) *My Time:* Time stamps throughout an account reflect a single selected time zone.

3) The Time Zone setting is administrator-specific. When logged in, administrators will see Activity time information presented based on their own specific selection.

4) Show both time stamps in the Event Log display.

3. *Administrators:* According to role-based permissions, administrators can access and manage all or some of an account's data and perform administrator actions such as initiating a lockdown and locking, unlocking a door, and managing users.

   a. *Role:* Set of permissions which provide authority for administrators to perform certain functions within an account.

      1) *Default Administrator Roles:* Two administrator roles are pre-defined and cannot be deleted, Primary Administrator and Super Administrator.

      2) *Custom Administrator Roles:* Additional roles that may be defined to provide a specific set of administrative privileges that match the job duties being assigned to one or more administrators.

   b. *Primary Administrator Role:* Each account must have one and only one individual assigned the Primary Administrator role. The Primary Administrator can operate on all account data, as well as view, create, edit and delete any number of administrators.

   c. *Super Administrator Role:* May operate on all account data and may also create custom administrator roles and assign them to new or existing administrators.

4. *Data Filtering System:* Comprehensive filtering capability that allows administrators to narrow down data record listings for reports and data displays using a variety of data field criteria, including support for partial data matches where appropriate. See the Brivo Access Online Help topic "Event Tracker" for filtering specifics.

5. *Activity:* Near real-time logging, display and reporting of events as described below.

   a. *Activity Record:* The following event information is included in an activity record:

      1) Site name.

      2) Date and time.

      3) Door or device Name, or control panel ID if event is not device-specific.

      4) User name, Operator name, or nature of event description.

         a) For Failed Access events, in the event description, include Card values and Card/PIN number values as hexadecimal numbers.

   b. *Firmware Version Dependencies:* Some events are provided based on control panel firmware version as noted below.

   c. *Event Categories:* Seventeen categories of events.

      1) Account Events

      2) Administrator Events

      3) Badge Events

      4) Control Panel Events

      5) Credential Events

      6) Custom Field Events

      7) Device Events

8) Group Events
9) Holiday Events
10) IPAC Events
11) Notification Events
12) Permission Template Events
13) Report Events
14) Schedule Events
15) Site Events
16) User Events
17) Video Events

d. *Event Classification:* Events are classified as Critical, Warning or Information events, and are displayed in three columns according to their classification, on the Events Classification page. Each column is divided into two parts: the top part for active events, and the bottom part for inactive that are not of interest. See Figure 2 below (active events only are shown).

1) *User-Configurable:* Event classifications are user-configurable on the Events Classification page, by dragging and dropping an event from its current classification column to a different one, or from the top part of the column (for active events) to the bottom part (for inactive events).

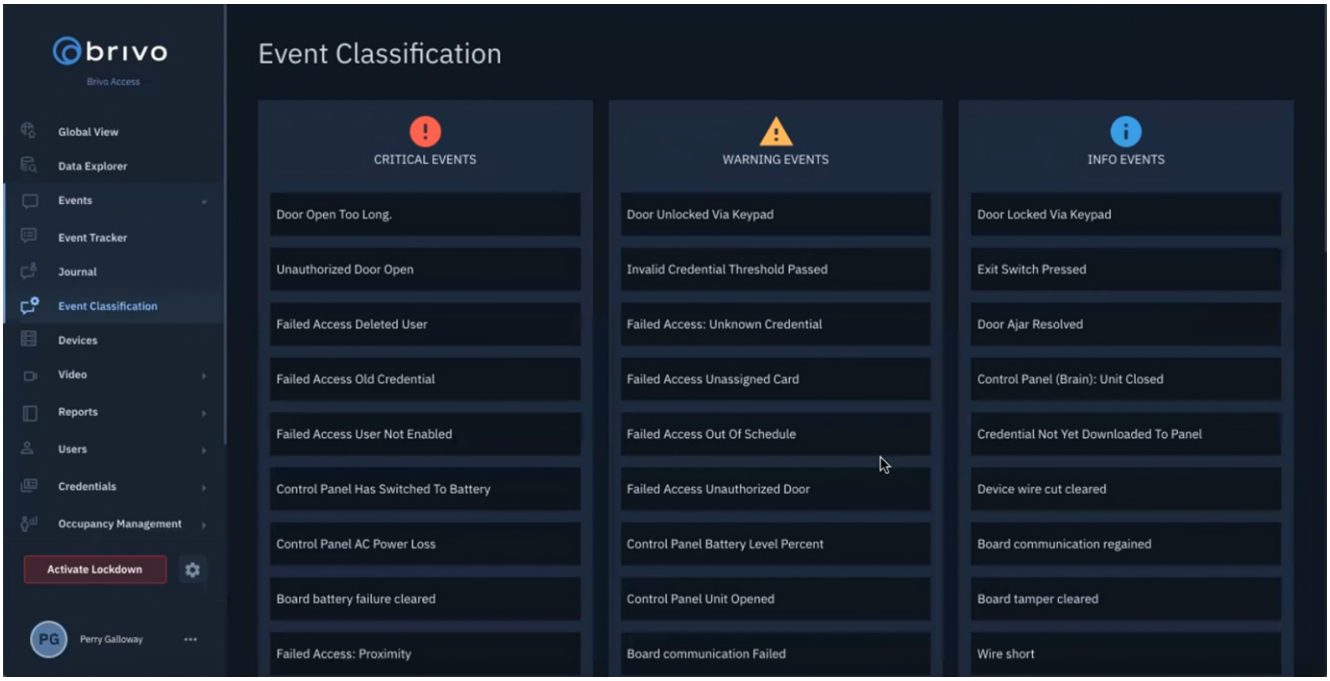
2) *Inactive Events:* Inactive events are not included for selection in event classification drop down lists, such as for filtering of event log displays in Event Tracker or reports, or in configuring Notification Rules.

e. *Anomaly Detection:* Brivo AI continuously learns patterns across people and places and detects anomalous activities. Anomalies flag activities based on individual user behaviors.

1) *Anomaly Alerts:* When anomalous activity is detected, a Priority Alert is issued containing a description of the anomaly, such as, “It is unusual for [user name] to access North Office Storage at this time” or “It is very unusual for [user name] to access Side Door 1A at this time.” Anomaly alerts are accessible in the Event Tracker’s event log.

2) *Anomaly Event Video:* Video related to an access event flagged as anomalous is viewable through the event’s Event Details display.

Figure 2. Event Classification Page



6. Advanced Access Control Features:

   a. *Antipassback:* Hard and Soft antipassback controls.

      1) *Hard Antipassback:* Requires two readers per door, one for entry and one for exit of the controlled area. Implemented on a per-credential basis, once a credential is presented for access in one direction (for example, entry), the credential must be presented for the opposite direction (for example, exit) before it can be used again for its previous use (in this example, entry). Thus, in addition to preventing credential passback, it also supports the integrity of access control entry and exit records, as it discourages tailgating by preventing two entries or exits in a row via credential.

      2) *Soft Antipassback:* Requires only a single reader per door, typically used for entry control, but also allows dual-reader usage for entry and exit control. Soft antipassback allows re-use of the credential for entry or exit after a timed interval or a scheduled reset of passback in/out status.

         a) *Antipassback Reset Interval:* Provides a time interval that prevents a user who enters or exits from doing so again before the specified time interval elapses. After interval elapse, the user is free to enter or exit.

         b) *Antipassback Reset Time:* Option where a user group's status as inside or outside the passback-controlled area is automatically reset to being outside at a specific time of day, with the ability to enter the time on a 24-hour clock with minute-by-minute detail.

   b. *Facility Lockdown:* There are two modes of lockdown implementation.

      1) *User Group Lockdown:* An Administrator revokes access privileges of a large number of users, either for all users at all sites, or only for specific user groups. Group Lockdown has no specific hardware requirements.

2) *Door Lockdown:* Administrator-initiated and device-initiated door lockdown, available solely for customer accounts that contain only ACS6000, ACS300 and ACS 100 control panels – no ACS5000 or IPDC control panels.

a) *Wired Lockdown:* Lockdown initiated using duress buttons connected to system inputs. Wired Lockdown configuration is limited to the use of a single ACS6000, ACS300 or ASC100 panel on a site.

b) *Lockdown Scenarios:* Named scenarios are defined for lockdown of specific doors. An administrator activates a lockdown via a Web App or Mobile App software button, selecting a lockdown scenario to be activated. User Groups may individually be configured for exemption from Door Lockdown.

c. *Facility Personnel Safety Features:* COVID response personnel safety features.

1) *User Contact Reporting:* Generate targeted reports listing specific user access events and potential contacts.

2) *Personnel Control:* Suspend user access automatically until they go through a screening checkpoint.

3) *Mobile Self-Screening:* Use Brivo Mobile Pass to identify users with COVID symptoms before they enter a site.

4) *Brivo Visitor Enhancements:* Screen all visitors for COVID symptoms and notify hosts when their visitors may pose a risk.

7. *Main Menu:* The Main Menu is a menu bar on the left-hand side of each page. It presents a two-level menu of main items and subitems. Clicking on a main menu item presents a page for that item, or (if a small arrowhead is present on the right side of the menu item) presents two or more submenu item tabs below it. Local tabbed menus are provided on some pages, as needed.

8. *Event Tracker:* Event Tracker page, displayed upon administrator login, provides a listing of current day live events and past event data, plus summary and trend graphs for data analysis. See Figure 3 below.

a. *Event Log Listing:* On a single line, provide the following data items:

1) *Timestamp:* UTC time.

2) *Site Time:* Local time at the site location.

3) *Event Name:* Name of event.

4) *User:* Name of User if User-related event.

5) *Site Name:* Name of Site where event occurred.

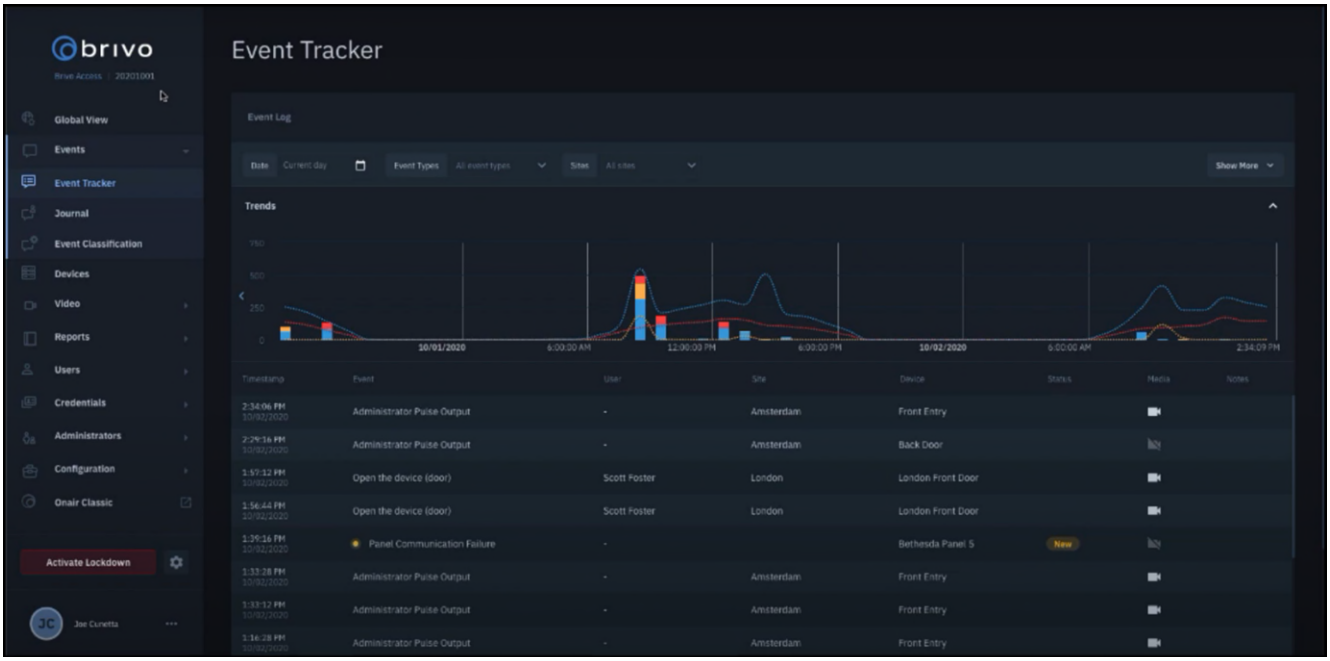
6) *Device Name:* Name of device if Device-related event.

7) *Event Status:* New or Cleared (by an administrator).

8) *Notes:* Blank or icon indicating administrator notes have been entered for the event.

9) *Media:* Icon indicating whether or not video exists for the event.

Figure 3. Event Tracker page



b. *Pop-Up Event Details Display:* Clicking on an event pops up the Event Detail box showing the event data, and three information sections below it.

1) *Video Playback:* Display area for reviewing related video if it exists. Video may be viewed in the Event Details small display area or full screen.

2) *User Details:* User name and photo, with a link to display the full User record.

3) *Notes:* A section for reviewing and added timestamped note text.

c. *Filtering:* Provide event filtering by Date, Event Name, User, Site, and Device. Include options to exclude camera events and exclude events without video data from the event listing.

d. *Trends:* Provide graphical representations of trend data using stacked bar charts and graph curve lines to enable identifying trends or anomalies occurring over a 12-hour period.

1) Bar colors indicate the event classification: red for Critical, yellow for Warning or blue for Information.

2) Hovering the cursor over a trend line initiates a pop-up display of trend information (not shown in Figure 3):

a) Date and Time of event.

b) Current and previous week counts for Critical, Warning and Information events.

9. *Journal:* Journal page displays a 90-day record of all actions performed by administrators broken into 24 hour segments, including when each administrator logged on and off, and what actions were performed.

a. *Viewing Privileges:* The Primary Administrator and administrators with appropriate permissions can view all actions. Otherwise, administrators can view only their own actions.

b. *Viewing:* The Journal page displays the current 24-hour period. To switch to a different date, click on the date to display a popup calendar. Select the date desired within the past 90 days and the information will be displayed.

c. *Journal Records:* For each action, the Journal shows the Date/Time, details of the Action, and the Administrator ID of the person who performed the action.

1) *Data Audit Trail:* To support trouble-shooting and error-correcting, action details show the before-change and after-change states of any data fields or settings items changed.

2) *Action Details Links:* As appropriate, the Journal shows links in the Action details for users, devices, schedules, holidays, sites, groups, reports, and control panels. Administrators may click on those links and be taken to a new journal page filtered for that particular link.

10. *Notifications:* An email notification rule is a named set of conditions for routing email notifications to one or more recipients who should be notified about selected events that occur at a specific site according to the selected schedule, and in the selected language.

a. *Event Selection:* Checkboxes are provided for selection of Exception events, Device events, Control Panel/Board events and Camera events. User group selection option is provided for Successful Access Event notifications.

11. *Occupancy Management:* Capability to set site occupancy limits and monitor the current occupancy count of sites.

a. *Configuration:* Settings for site occupancy management.

1) *Occupancy Limit:* Used for tracking and notification purposes. Users will still be granted entry when limit is reached.

2) *Timeout:* Amount of time in hours after which a user will be considered to be off-site. Each time users presents a credential within the site, the user's occupancy status timer will be reset.

b. *Occupancy Dashboard:* Page that presents an occupancy status box for each site configured for Occupancy Management. The status box displays the current number of occupants in the center of the box. Selection of the User List option selection replaced the occupancy count with a list of current occupants that includes each occupant's Entry Time, photo, and name.

12. *Reports:* Administrators can generate reports for a 90-day window using data from up to 365 days ago.

a. *My Reports:* Query tool for predefined commonly run immediate and scheduled reports, allowing these reports to be generated and parameterized depending upon administrator permissions.

b. *Report Use:* At the time of creation, administrators have the ability to mark a user or activity report as private. A private report can only be seen by the Primary Administrator of the account as well as the administrator who created it.

c. *Report List:* Below is a list of the available reports in My Reports. A "(C)" denotes the report allows the inclusion of custom field data. A "(D)" denotes a default report created at account creation.

1) *Account Activity Report (D):* An alphabetized list of all sites with summarized information (for the last 24 hours) that includes Access Events, Failed Access Events, Exception Events, Door Locked/Unlocked Events, Programmable Device Events, Wiring Events, and Control Panel and Board Events.

2) *Account Summary Report:* All sites sorted alphabetically (by site name) with Site Name, Address (City Name and State), Quantity of Doors, Quantity of Devices, Quantity of Users, and name of Unlock Schedule(s).

3) *Active Users Report (C) (D):* All active users sorted alphabetically by last name (for a 90-day window within the last 365 days) with Last Name, First Name, Cards, PIN Credentials, and Last Credential Use Date. This report can include and be filtered by custom field data.

4) *All Doors Report:* All doors sorted alphabetically (by site) with Door Name, Control Panel ID, Device Type, and Created Date.

5) *All Users Report (C):* All users sorted alphabetically by last name (for a 90-day window within the last 365 days) with Last Name, First Name, Cards, PIN credentials, Status, Expiration Date, and Last Credential Use Date. This report can include and be filtered by custom field data.

6) *Control Tracing Report (D):* Identifies a user's path of travel and all users with whom they may have come into contact during a given period of time.

7) *Control Panel Report (D):* All control panels sorted alphabetically by control panel name with Control Panel Name, Last Contact (Date/Time), Control Panel ID, Model Type, and current Firmware Version.

8) *Daily Summary Report (D):* Available in English, French, or Spanish, a list sorted alphabetically by site with summary information for the last 24 hours. Summary information includes: unique users on site, successful access events, failed access events, forced door events, door ajar events, too many invalid PINs, schedule override events, pulse door events, lockdown events, communication loss events, power loss events, control panel opened events, wire cut events, and wire short events.

9) *Door/Device Rights Report (C):* All doors and devices grouped by site showing all users (listed alphabetically by name) with rights to those doors and devices. This report can include and be filtered by custom field data.

10) *Elevator Report:* All elevators sorted alphabetically with the names of the floors being controlled and the output.

11) *First/Last Access Report (C):* A list of all users sorted alphabetically with First Access, showing credential used, device accessed, and time used, and Last Access, showing credential used, device accessed, and time used (since midnight in the report runner's time zone). This report can include and be filtered by custom field data.

12) *Group Directory Report (D):* All groups sorted alphabetically by group name with Group Name, Number of Users in Group, and the Created Date.

13) *Holiday Report:* A list of all holidays in the account sorted by date that includes Site, Holiday Description, and From and To Dates.

14) *Inactive Users Report (C) (D):* All inactive users sorted alphabetically by last name with Last Name, First Name, Cards, PIN Credentials, and Status. This report can include and be filtered by custom field data.

15) *Journal Report (C) (D):* A listing of journal entries for a particular event type. Displays the Date and Time, Action, Details, and who performed the action. This report can include and be filtered by custom field data.

16) *Schedule Relationship Report (D):* A list sorted alphabetically by site with Groups and Devices to which the selected schedule is applied.

17) *Site Activity Report (C) (D):* A chronological list of a selected site(s) and/or device(s) with summarized information for a selected time period that can include one of the following event types: Access Events, Failed Access Events, Exception Events, Door Locked/Unlocked Events, Programmable Device Events, Wiring Events, and Control Panel and Board Events. This report can include and be filtered by custom field data.

18) *Unique Users Report (C):* A list of all unique users sort alphabetically who have accessed a selected site(s) for a selected time period. This report can include and be filtered by custom field data.

19) *Unused Credential Report (C):* A list of all users sorted alphabetically who have never used their credentials within the specified time frame showing First Name, Last Name, and Credential (card value or PIN). This report can include and be filtered by custom field data.

20) *User Activity Report (C) (D):* A chronological list of activity by group and/or user at selected site(s) and/or device(s) with summarized information for a selected time period. This report can include and be filtered by custom field data.

13. *Sites:* As defined within the system, a site is a logical group of doors, devices, and floors. An account can have one or more sites associated with it.

    a. *Door:* A named exterior or interior door with electronic means of door entry control, such as a keypad or card reader connected to the system via a door board and a main controller. See Section 28 14 00 for system control hardware information.

    b. *Floor:* A named or numbered building floor, the entry to which is access-controlled via an elevator interfaced with the system, so that floor access requires presentation of a valid access credential in an elevator lobby or inside the elevator.

    c. *Device:* There are two types of system devices.

        1) *Physical Device:* A named physical or electronic device connected physically or logically to the system to provide sensor or control functionality. Physical devices system control panel main boards, door boards, I/O boards and associated electronic devices. These are installed and configured to initial values by a licensed dealer. Physical device setup is performed through the system manufacturer's partner portal software, not specified in this document.

        2) *Logical Device:* Software logical devices are used to represent physical devices attached to the system. Logical devices are configured for operational use by an end user administrator and/or by a licensed dealer. See Devices below.

14. *Devices:* Software logical device categories that represent physical devices attached to the system. A device may have states (such as on or off) and/or actions (such as Latch, Unlatch or Pulse). Logical devices are used to simplify and add uniformity to the management of the great variety of available physical access control and monitoring devices.

    a. *Device Types:* There are four device types which are software logical device categories that represent physical devices attached to the system. A device may have states (such as on or off) and/or actions (such as Latch, Unlatch or Pulse). Logical devices are used to simplify and add uniformity to the management of the great variety of available physical devices.

        1) *Switch:* A logical device with one input point and 0 to N output points that has one of two states (On or Off). A switch device can have these behaviors: Latch, Unlatch, Pulse, or Follow. A schedule associated with the device causes it to be available for activation via its input point during the times defined in the schedule.

2) *Timer.* A logical device whose input is a schedule and that has 0 to N output points associated with it. The timer's state is On during the times defined in its schedule, otherwise it is Off. The device can have these behaviors: Latch, Unlatch, Pulse, or Follow.

3) *Valid Credential:* A credential logical device has one input that is a card reader and that has 0 to N output points associated with it. A valid credential device has no state, so its behaviors are limited to: Latch, Unlatch, and Pulse. Valid credential devices have permissions associated with them and appear in the group permissions area. Valid credential devices do not have state, nor do they have schedules. Lock/unlock schedules are defined for Doors, which can have credential devices associated with them, and for User Groups, which can include schedules that determine times members of the User Group are allowed to access doors associated with the User Group.

4) *Event Track:* A logical device whose input is the specific event associated with it from the door that the event track device is created to watch. An event track device can have 0 to N outputs associated with it.

a) The device can always have these behaviors: Latch, Unlatch, or Pulse.

b) If an event track device is watching for Door Ajar events, then it has state and can have a Follow behavior. If the Follow behavior is selected, then the device can have a Disengage message.

c) The schedule associated with an event track device defines when it is active because an administrator may want to respond to the event only during specific business hours or non-business hours.

b. *Device Management:* Administrator logical device management consist of device configuration, manual device control and device monitoring. Device management may be performed after the installer has completed hardware installation and configuration.

1) *Device Configuration:* Device configuration detail pages are accessed via the main menu Configuration item, and Door configuration page.

2) *Manual Device Control:* Device control is available throughout the application at appropriate points. Restrictions to manual device control are provided both by administrator privileges and by individual device configuration. Authorized administrators have door lock and unlock control available on Activity Log and Event Tracker pages, which allow for user photo comparison and offer event-based video playback. Door unlock capability is also provided on the Video page for each camera associated with a door.

3) *Device Monitoring:* The Devices page provides a display of Device Status information, categorized by site including site summaries, and filterable by device type and device status.

15. *Device Groups:* Device Groups have the specific purpose of facilitating the management of access privileges for Offline Locks – initially Allegion/Schlage Control Locks. A Device Group is similar to a User Group, except that a Device Group contains Offline Lock devices instead of Users.

a. A single offline lock can belong to up to 16 Device Groups.

16. *Schedules and Holidays:* A schedule is an editable, reusable, named time template that can be used to control such things as when a door is locked or unlocked, when a device is activated, and when a system action is performed such as notifications or scheduled reports. A holiday is

an alternate time template that overrides a schedule on a single day or on two or more consecutive days.

a. *Scope:* Schedules can be defined as account-wide or site-specific.

b. *Group Enabled Schedule:* A group enabled schedule is a site-specific schedule used to implement First-Person-In or Supervisor-on-Site functionality, by selecting a user group to serve as the enabling user group for the schedule.

1) *First-Person-In:* Requirement that the schedule controlling a specific door or elevator cannot be activated until a member of the enabling user group accesses it. For example, the main lobby door is scheduled to be unlocked at 9:00 AM, but only if a manager is present. If no member of the Manager user group arrives through the main lobby door until 9:15 AM, the door remains locked and can only be opened except by credentialed access.

2) *Supervisor-on-Site:* Performs the same function as First-Person-In, but in addition keeps readers and keypads inactive until a member of the Supervisor user group arrives.

c. *Schedule Relationships:* Once created, a schedule may be associated with various user groups, doors, floors, devices or notification rules. These relationships may be created by multiple administrators over time, and a single schedule may eventually become associated with numerous entities. At any time, administrators can generate a report that lists all the associations for a specific schedule.

17. *System Multi-Factor Authentication:* Provide multi-factor authentication using the Time-based One-time Password algorithm (specified in RFC 6238) and the HMAC-based One-time Password algorithm (specified in RFC 4226), for authenticating system administrator logins.

a. Require administrators to install the Google Authenticator mobile app.

b. Utilize the Google Authenticator barcode-based enrollment process to establish multi-factor authentication capability.

c. Require entry of a Google Authenticator code as part of the login process.

18. *Users and User Groups:*

a. *User:* An individual who requires access to one or more doors or floors at a given site or set of sites. A user has unique credentials, such as a card, PIN or Brivo Mobile Pass, that enable entry and exit at the specified doors and floors. A user may also be referred to as a credential holder.

b. *User Group:* A named set of users with the same access privileges to one or more sites within an account. A user may be a member of up to 16 user groups. User Groups specify the doors and/or floors for which its member are granted access.

c. *Access Privileges:* Access privileges are defined at the user group level. A user inherits privileges from the user groups to which he or she belongs. User privileges can be set to start and/or expire on specified dates. Special privileges can be assigned to selected user groups:

1) *Keypad Unlock-Hold Privileges:* When enabled, any member of user group can override a door unlock schedule by presenting his or her credentials and entering 99# at the door's keypad. To reactivate the door unlock schedule, the group member enters 00#.

2) *Excluded from Lockdown:* When enabled, members of the user group are excluded from all Door Lockdown restrictions.

3) *Immune to Antipassback:* When enabled, the user group members will not be affected by any antipassback settings in place.

4) *Antipassback Reset Time:* Selecting an Antipassback Reset Time enables soft antipassback for the user group members. Leaving it blank enables hard antipassback.

2.4. VIDEO SUPPORT

A. *Video Platforms:* Enable video integration via online video recording incorporated within the system as well as integration with third party video recording devices installed on the customer's premise. Use the timestamp of access events and a camera identifier to query the integrated platform for video clips related to access events.

1. Live Video:

   a. *Viewing:* Provide viewing of video using a 9-camera (3 x 3) scrollable viewing matrix, filterable by site, with option for full-screen viewing of any single camera's video.

   b. *Notifications:* Provide notification capability for video camera motion events.

   c. *Door Unlock:* Provide the ability to unlock a door while viewing video associated with the door.

2. Recorded Video:

   a. *Viewing:* Provide viewing capabilities similar to viewing live video.

   b. *Event-Related Video:* Provide viewing of event-related video from the Event Log display.

B. *Brivo Snapshot:* AI-based capability that speeds the review of visual event information using machine learning to pre-index a fused stream of video and event data. Reduce the time required to find images of interest by up to 20 times less than traditional search techniques in stand-alone video or access control systems.

1. *Snapshot Functionality:* Use machine learning to detect the presence of people by finding the video frame with the highest facial detection score around a specific entry event. Extract that video frame and present it along with the underlying video clip.

2. *Fastest Review:* Enable administrators to flip through a "photo album" of single frames derived from video associated with an access event, without having to watch a full 30-60 second recording.

3. *Visual Access Verification:* Enable fast visual entry confirmation.

   a. Verify that credential-based access was performed by the actually credential-holder.

   b. Identify instances of tailgating and piggybacking.

   c. Review group entry, such as the arrival of visitors, vendors, customers, and tenants.

4. *Health Mask Presence:* Detects mask presence and usage to determine if masks are being worn properly, i.e., covering mouth and nose.

2.5. USER MOBILE APP FUNCTIONALITY

A. The free Mobile App includes the following functionality, subject to the user's permissions:

1. Manage Brivo Access account from smartphone or tablet.

2. Suspend and/or reinstate users.

3. View live and recorded video across multiple sites.
4. Monitor activity logs across multiple sites.
5. Initiate or end a site lockdown.
6. Unlock doors remotely.
7. Create new users, assign user access privileges, issue credentials.
8. Taking pictures of users for upload to Brivo Access user profiles.

2.6. BRIVO VISITOR

A. *Description:* Brivo Visitor is a visitor management subscription add-on providing three customizable workflows for managed or self-service actions – Sign-In/Out, Delivery and Help Request.

1. Sign-In/Out:
    a. Can be enabled or disabled.
    b. Can include email notifications of visitor arrival and departure.
    c. Visit can be ad hoc or by appointment.
    d. Can display the following pages for visitors:
        1) Visitor Information.
        2) Host.
        3) Appointment Time.
        4) Take Photo.
        5) Custom Questions.
2. Delivery:
    a. Can be enabled or disabled.
    b. Can include email notification of delivery.
    c. Allows selecting the delivery type:
        1) Mail.
        2) Package.
        3) Food.
        4) Other.
    d. Can initiate request for delivery acceptance signature.
3. Help Request:
    a. Can be enabled or disabled.
    b. Can initiate email to notify staff of help request from a visitor.
4. *Self-Service:* Support the use of iPad-based visitor kiosk or countertop devices for visitor self-registration and/or sign-in and sign-out, and delivery notification.
5. *Visitor Badges:* Provides an option for printing visitor badges.

6. *Administration:* Administrators may be pulled from the Brivo Access account or entered independently for the visitor management functions. Administrators may configure:
    a. Location name of a visitor management device.
    b. Badge printer.
    c. Email notification functionality.
    d. List of visitor hosts, pulling users from the Brivo account.
    e. Automatic sign-out enable/disable.
    f. Set the host list to automatically refresh.
    g. Specify documents requiring that visitors read and optionally sign off on.
    h. Custom mandatory or optional questions for visitors to answer.
    i. Document agreements for signature such as privacy & security instructions, confidentiality and non-disclosure terms, and visitor requirements.

2.7. CREDENTIAL AND READER SUPPORT

A. *Card Bank:* Maintain a list of all cards associated with an account, with display and printing of card information listed below and the ability to assign, revoke or delete a card from the card bank list.
    1. Card number.
    2. Card Format.
    3. Facility Code.
    4. Agency Code.
    5. User Assigned To.

B. *Card Reader and Keypad Operation:* Provide multiple options for granting access through doors via reader and keypad.
    1. Card reader control only.
    2. PIN control only.
    3. Simultaneous control by either card presentation or PIN entry.
    4. Combined control requiring both card presentation and PIN entry.
    5. Different options in effect during different schedules.

B. *Card and Key Fob Formats.*
    1. *Legacy Card Formats:* Support all Wiegand and HID formats up to 128 bits.
    2. *Smart Card/Fob Formats:* MIFARE DESFire® EV2 with LEAF data structure.

C. *Brivo Readers:* Support Brivo readers, Brivo-branded OEM readers, and third party readers with credential support as listed below.
    1. *Brivo Reader Form Factors:* Provide readers in the form factors and with the credential support described below.
        a. Three Form Factors (see Figure 4 below):
            1) Mullion.

2) Single Gang.

3) Single Gang with Keypad.

b. Two Variations on Credential Support:

1) BLE and Smart Card.

2) BLE, Smart Card and 125kHz proximity.

c. Reader Colors:

1) Black.

2) White.

Figure 4. Brivo Reader form factors



2. Brivo Readers and Credential Support:

a. Brivo Readers:

1) B-BSPMF-W and B-BSPMF-B Mullion Mount.

2) B-BSPSF-W and B-BSPSF-B Wall Mount.

3) B-BSPKF-W and B-BSPKF-B Wall Mount w/Keypad.

b. Compatible Brivo Smart Cards and Fobs:

1) B-S C50 Cards

2) B-SF25 or B-SFSO Fobs

3. Brivo-Branded Readers:

a. Brivo HID SEOS Smart Readers in Mini Mullion, Wall Mound, and Wall Mount w/Keypad models.

b. Selected SEOS cards and fobs.

4. HID Readers:

a. HID iClass SE Smart Readers.

b. HID Signo Smart readers.

c. Selected iClass SE Cards and Fobs.

5. Allegion Readers:
    a. Allegion –Schlage Smart Readers: Selected Mini Mullion, Mullion, Wall Mount, Wall Mount with Keypad and Wireless Locksets, including those listed below. See Wireless Lock Integrations on page 32 for additional information.
    b. MT Series.
    c. MBT Series.
    d. Schlage NDE/NDEB wireless locksets.
    e. Schlage LE/LEB wireless locksets
    f. SchlageAD400 Wireless locksets
    g. Selected Smart Cards and Fobs.
6. *Third-Party Legacy Readers:* Wiegand and Proximity (125kHz) readers.

D. Biometric Readers.
1. Suprema.
    a. Suprema biometric readers communicate via Wiegand transmission to ACS6000 and ACS300 control panels. There is no software integration with the Brivo system – additional computer hardware and software components are required, establishing a two-database system for user data:
        1) Suprema BioMini enrollment scanner.
        2) Suprema BioConnect Enterprise admin client software.
        3) Suprema BioConnect Enterprise admin server software.
    b. Any combination of supported credential readers and biometric readers may be used.
    c. Maximum Readers Per Control Panel:
        1) ACS6000-E: 30.
        2) ACS300-E: 2.
    d. BioConnect hardware and software requirements: An on-site server is required to support the BioConnect Enterprise admin server software.
    e. For additional details see the Brivo Access Suprema Configuration Guide.

E. *Credential Read Ranges:* Table 2 below shows the various credential read ranges from inches to unlimited range.

Table 2. Credential Read Ranges

Range	Inches	About 1 to 6 Feet	Wi-Fi Range	Unlimited Range
Credential	RF to reader with Proximity, Smart Proximity Card or Smart Fob	Bluetooth to reader with Mobile Pass support	Mobile Pass to Brivo Access with Trusted Network option activated	Mobile Pass to Brivo Access with Trusted Network option deactivated

2.8. MOBILE CREDENTIAL SUPPORT

A. *Brivo Mobile Pass:* A downloadable application that provides users the ability to access secured areas using their smartphone rather than a card or fob credential. Administrators with the appropriate permissions may send users a Brivo Mobile Pass credential.

1. *Door Access:* Brivo Mobile Pass provides three modes of door access:

   a. *Standard:* User selects a door from a list of the user's authorized doors. Works with existing readers or even without a reader, such as for reader-less doors or doors with a damaged reader.

   b. *Magic Button:* Mobile credential automatically selects closest reader for access. Works with Brivo Readers.

   c. *Biometric:* The built-in fingerprint and facial recognition of a user's device can be added to Standard and Magic Button modes.

2. *Mobile Pass Credentials:* Mobile Pass provides simplified credential management through the following application functionality.

   a. *Credential Management:*

      1) *Alternative Credential:* Because the system allows the issuance of multiple credentials to an individual, a Mobile Pass credential can be remotely issued in seconds as an alternate means of obtaining access until a lost or stolen card or fob is found or replaced.

      2) Secure Credential: Mobile Pass credentials are not cloneable and thus are more secure than 125 kHz proximity cards.

      3) *Credential Issuance:* Authorized administrators issue a new Mobile Pass Credential to a user via email. Brivo Mobile Pass users add a new Brivo Mobile Pass credential by entering the Pass ID and Pass Code included in the email sent to them or by clicking on the link in the provided email, whereupon the Pass ID and Pass Code fields automatically populate with the correct information. Once the two fields are populated, the end user clicks on the Add Pass button to complete the process.

      4) *Multiple Credentials:* Brivo Mobile Pass application can contain an unlimited number of mobile passes created in any Brivo Access account. The end user's new mobile pass will appear in the Pass Menu identified by its site name and address. This enables local management and issuance of credentials on a site basis, eliminating the need for central management of credentials across multiple site locations.

3. *Trusted Network Policy:* Also referred to as the Trusted Network option or simply Trusted Network, it is a feature whereby Mobile Pass usage is allowed only when the Mobile Pass device is within the range of one or more authorized site Wi-Fi networks.

4. *Mobile Pass Credential Use Modes:* Mobile Pass may be used in any combination of three modes.

   a. *Bluetooth Enabled Readers:* Readers with Bluetooth Low Energy enabled for Mobile Pass.

   b. *Site Wi-Fi and Brivo-Controlled Doors:* Brivo-controlled doors and Mobile Pass device within range of a Wi-Fi network used with the Brivo Trusted Network Policy is activated.

   c. *Internet Access and Brivo-Controlled Doors:* Brivo-controlled doors and Mobile Pass accessing Brivo via the Internet – on-site or remotely – with the Trusted Network Policy deactivated for the site.

2.9. OPEN INTEGRATION API

A. *Open API:* Provide an open RESTful API for custom integrations. Make the API documentation available at https://apidocs.brivo.com and provide developer support for integrations by customers and system integrator dealers.

2.10. AVAILABLE INTEGRATIONS AND INTERFACES

A. *Elevator Integration:* Elevator system integration is of two types: software-based Destination Dispatch system interfaces, and relay-based interfaces.

1. *Destination Dispatch:* Utilize an on-premises server to interface with elevator destination dispatch systems from multiple elevator manufacturers.

a. *Server:* On-premises server utilizing Steward software from braXos Security Software. Supported elevator systems include:

1) Fujitec.

2) KONE (Access, ELI, RCGIF).

3) Mitsubishi.

4) Motion Control Engineering (MCE).

5) Otis Compass.

6) Schindler PORT.

7) ThyssenKrupp (TK Elevator) AGILE.

2. *Relay-Based Interface:* Output relays interface to elevator system dry contact inputs to indicate which floors the user is authorized to access.

B. *Identity Integrations:* Identity integrations are of two types: Single Sign-On and User Provisioning.

1. *Single Sign-On*: Many IDM and IAM systems offer Single Sign-On. Using the Brivo Identity Connector, Brivo users and administrators can include access to the Brivo Web App in their Single Sign-On application list. Single Sign-On integrations include:

a. Azure AD

b. Okta.

c. OneLogin.

d. Many other business single sign-on solutions.

2. *User Provisioning:* Brivo Access user provisioning can be performed in an integrated IAM by assigning and modifying Brivo user and administrator rights, and adding users to appropriate user groups, with the result that the user and administrator rights and user group assignments automatically update in Brivo. Deleting the users or administrators in the IAM system results in their removal from Brivo Access. User provisioning integrations include:

a. Google Workplace (formerly G Suite).

b. Microsoft Azure Active Directory (Azure AD).

c. Okta.

C. *Intercom Systems:* 2N IP Verso.

1. Administrators can configure one or more user groups to be downloaded to the touchscreen directory of an intercom.
    a. Intercom directory list shall automatically be updated as users are added or removed from the associated groups in the access control system.
    b. Fields downloaded include display name, phone number and other configuration information to dial up to 3 distinct phone numbers per user in the intercom directory.
    c. No inbound firewall ports shall be necessary for proper operation. The intercom shall initiate an outbound connection to the access control system on an hourly, daily or weekly time interval.

D. *Intrusion Detection:* Alula.

1. Alula BAT Connect.
2. Alula Connect+.

E. *Smart Power Systems:*

1. Altronix Trove.
2. Life Safety Power (LSP).

F. *Video Surveillance:* Cloud-based video surveillance support is provided by cloud-based integration with Eagle Eye Networks Cloud VMS.

1. Cloud-Based VMS Integration:
    a. *On-Site Software:* None.
    b. *On-Site Hardware:* All Bridge and Cloud-Managed Video Recorder devices from Eagle Eye Networks are supported.
    c. *Camera Support:* Eagle Eye currently supports over 3,000 makes and models of cameras.
        1) *Camera Types:* Digital IP, Analog, HD over COAX, and Body Worn cameras.
        2) *Makes and Models:* See the Eagle Eye Networks Camera Compatibility List.
    d. *Maximum Capacities:*
        1) *Maximum Cameras per Account:* 10,000.
        2) *Maximum Simultaneous Viewers per Camera:* 100.
2. Brivo Wireless Cameras:
    a. *On-Site Software:* Brivo Access Cam software for Windows or Mac.
    b. Wireless Cameras:
        1) Outdoor PoE Bullet.
        2) Indoor & Outdoor PoE Dome.
        3) Indoor Wireless Cube.
3. Additional Integrations:
    a. Milestone Systems: XProtect.
    b. Exacq Technologies: exacqVision.

G. *Visitor Management System:* Brivo Visitor and WhosOnLocation integration.

1. *Sync Users:* Upload users, perform list management, and sync staff lists between both platforms.
2. *Issue Credentials:* Issue visitor access credentials before they arrive on-site or after sign-in.
3. *Muster in an Emergency:* Identify who is on-site, off-site, and in the event of an emergency use the mustering app to verify the safety of every person on site.

H. *Wireless Lock Integrations:*

1. Allegion.
   a. Allegion Online Locks:
      1) Allegion/Schlage AD400 Wireless Locks.
      2) Allegion/Schlage NDE/LE Wireless Locks.
   b. *Allegion Online Lock Gateways:* An Allegion Gateway is Brivo's term for a device that allows a Brivo Access account to utilize certain types of Allegion Wireless door locks.
      1) Once an Allegion Gateway is configured on a Brivo account, new doors added to the account may select the Allegion Gateway as a controller.
      2) There are two types of gateways, both using RS485 communications to Brivo ACS6000 and ACS300 control panels:
         a) *Allegion/Schlage AD400 Wireless Locks:* Panel Interface Module (PIM) PIM400-485.
         b) *Allegion/Schlage NDE/LE Wireless Locks:* Allegion ENGAGE™ Gateway.
      3) Gateway Utilization:
         a) Up to 10 locks per gateway.
         b) Up to 4 gateways per control panel.
         c) Control panel determines maximum number of locks per panel.
      4) Brivo Control Panel Maximum Readers/Locks:
         a) ACS6000-E or ACS6008-E control panel: 30.
         b) ACS300-E control panel: 2.
   c. Allegion Offline Locks:
      1) *Allegion/Schlage Control Locks:* The Brivo and Allegion Control lock integration is a data on card or "offline" topology. The locks do not communicate with either Brivo controllers or services. The cards contain all of the user's permissions.
      2) The lock is programmed using an Allegion Schlage MT20W multi-technology enrollment reader and programmable credential.
      3) Each programmable credential may support up to 11 Brivo User Groups with variable access permissions.
      4) Each Allegion/Schlage Control Lock can be associated with 16 Brivo Device Groups.
      5) See the Brivo Configuration Guide for Allegion Control Locks for additional details.
2. ASSA Abloy.
   a. Aperio™ Technology Wireless Locks.

1) Aperio Hubs: Aperio-enabled locks communicate wirelessly to an Aperio AH30 IP Hub, which connects to a Brivo ACS300 or ACS6000 control panel via the control panel's Admin network port.
2) Each Aperio Hub supports up to 16 Aperio locks per panel.
3) Each Brivo Panel supports up to 30 AH40 Aperio Hubs.
4) Any combination of up to 30 card readers and Aperio locks may be used per control panel. The Brivo control panel model determines maximum number of readers and locks total per panel:
    a) ACS6000-E or ACS6008-E control panel: 30.
    b) ACS300-E control panel: 2 wired, 28 to 30 wireless.
5) *Hub Event Messages:* The following event messages are sent to the control panel by the Aperio Hub:
    a) Lock RF Communication Restored.
    b) Lock RF Communication Failure.
    c) Door Pulsed by Admin.
    d) Door Ajar.
    e) Door Ajar Cleared.
    f) Door Forced.
    g) Opened by Key.
    h) Lock Tamper.
    i) Lock Tamper Cleared.
    j) Lock Low Battery.
    k) Lock Battery Critical.
    l) Unlock on Schedule.
    m) Lock on Schedule.

3. Salto.
    a. *Salto Sallis Wireless Locks:* Sallis wireless locks communicate through Salto wireless nodes within 30 ft. of the lock. The wireless nodes communicate to a Brivo control panel through a Salto router.
    b. *Salto Router:* Device that allows a Brivo Access account to utilize Salto Wireless door locks. Once a Salto router is configured on a Brivo Access account, new doors added to the account may select the Salto router as a controller.
        1) Salto Node/Router Utilization:
            a) Up to 16 locks per node.
            b) Up to 7 nodes per router.
            c) 1 router per Brivo control panel.
            d) Control panel determines maximum number of locks per panel.

2) *Brivo Control Panel Maximum Readers/Locks:* A control panel supports any number of reader and Sallis wireless lock combinations, up to the maximum capacity of the panel:

   a) ACS6000-E or ACS6008-E control panel: 30.

   b) ACS300-E control panel: 2.

3) *Salto Node Event Messages:* The following event messages are sent to the control panel by the Salto node:

   a) Open with card.

   b) Open with metallic key.

   c) Open with PPD (Portable Programming Device).

   d) Open from Host.

   e) Door Forced.

   f) Door Forced Cleared.

   g) Door Ajar.

   h) Door Ajar Cleared.

   i) Communication has been established.

c. Salto Sallis door locks cannot utilize the Brivo Access antipassback functionality.

2.11. BRIVO ACCESS EDITIONS

A. Product feature availability and complimentary subscriptions are provided in three product editions, as shown in Table 3 below.

Table 3. Brivo Access Editions

Feature	Standard	Professional	Enterprise
Facility Lockdown	Yes	Yes	Yes
Role-based Admin Permissions	Yes	Yes	Yes
Remote & Mobile Management	Yes	Yes	Yes
Event Tracking	Yes	Yes	Yes
Device Status	Yes	Yes	Yes
Video Surveillance	Yes	Yes	Yes
Multi-factor Authentication	Yes	Yes	Yes
Custom Event Classification	—	Yes	Yes
Event Trend Analysis	—	Yes	Yes
Identity Connector	Available for Purchase	Yes	Yes
API Integration	Available for Purchase	Yes	Yes
Occupancy Tracking	—	Yes	Yes
Global View	—	—	Yes
Data Explorer	—	—	Yes

Feature	Standard	Professional	Enterprise
Single sign-on (SSO)	Available for Purchase	Available for Purchase	Yes
Readers	Available for Purchase	10	20
Brivo Mobile Pass	Available for Purchase	500	1000
Data Reporting Retention	1 Year	2 Years	3 Years
Brivo Visitor	Available for Purchase	1 Subscription	3 Subscriptions
Brivo Snapshot	Available for Purchase	1 Subscription	3 Subscriptions

2.12. SOFTWARE SECURITY AND DATA PRIVACY

A. *Security and Privacy Details:* For details relating to Manufacturer's cybersecurity and data privacy practices, and the system's conformance to the confidentiality, integrity, availability and other requirements identified below, see:

   a. Brivo Access Information Security White Paper.

   b. Brivo Services Terms of Use.

   c. Brivo Services Privacy Statement

B. *Cloud Infrastructure Security:* Utilize leading cloud infrastructure service providers who provide in-depth cybersecurity protection for their cloud infrastructure including networking.

C. *Cloud Application Security Controls Documentation:* Provide cloud application security documentation via the Security, Trust, Assurance, and Risk (STAR) public registry of the Cloud Security Alliance. View Brivo STAR listing and download the completed Consensus Assessments Initiative Questionnaire (CAIQ) spreadsheet, which is used to document compliance with the Cloud Security Alliance's Cloud Controls Matrix, a cybersecurity control framework for cloud computing.

D. *Data Security and Privacy Controls:* Provide security and privacy measures including those required to achieve GDPR compliance.

   1. *Logical Data Separation:* Provide effective logical data separation for different customer accounts and allow customers to further restrict data access within their organizations by utilizing role-based user access privileges.

   2. *Additional Data Separation:* Ensure additional data segregation by providing separate environments for different functions, especially for testing and production.

   3. *Data Encryption:* Used standards-based encryption for data at rest and in motion.

   4. *Control of Processing:* : Implement procedures to ensure customer data is processed only as instructed by customer, and as described in product documentation, throughout entire chain of system processing activities, including affiliates and subcontractors.

   5. *Regular Audits:* Ensure regular compliance audits are performed on technical and organizational data security measures implemented by Manufacturer and Manufacturer's affiliates and sub-processors.

6. *Security Controls:* Provide a variety of security controls including:
    a. Password security and login protection.
    b. Authentication for Customer Care callers prior to divulging account information or performing any actions such as a password reset on an account.
    c. Ensure Manufacturer's personnel cannot set a defined password for users.
    d. Provide strong subscriber account access control features including role-based permissions and multi-factor authentication.
7. *Security Policies, Procedures and Controls:* Establish an array of security policies as approved by internal Information Security Team (IST) and designated members of senior management. Ensure policies are annually audited by third-party as part of SOC 2 assessments. Make latest SOC 2 report available from Manufacturer's sales team under mutual NDA. Provide public documentation that describes corporate and data center security policy and practice elements, such as:
    a. Security Logs.
    b. Incident Management.
    c. User Authentication.
    d. Data center and office physical security.
    e. Performance, reliability and backup:
    f. High availability cloud infrastructure across multiple geography and cloud infrastructure availability zones.
    g. Low-latency high-performance scaling including the use of serverless computing and containers.
    h. Robust and tested backups.
    i. Publicly announced status updates for any planned or unplanned downtime on website status page (status.brivo.com).
    j. Disaster recovery.
    k. Administrator activity audit trail logging and reporting.

PART 3 – EXECUTION

3.1. PREPARATION

A. Software Setup:
    1. Determine administrator role assignments.
    2. Determine site area operations schedules, including normal business and holiday door/gate and elevator floor lock/unlock schedules.
    3. Determine user group settings.
    4. Determine user information details to provide, considering standard and custom data fields.
    5. Design badge templates.

6. Develop notification scheme.
7. Determine actions/responses from individual input points.
8. Determine if custom reports are needed, and if so, define them.

B. Integrations:

1. *Elevators:* Coordinate with trade.
2. *Fire Alarm:* Coordinate with trade where applicable.
3. *Identity Management/Business Information Systems:* Coordinate with IT department and/or IT service provider.
4. *Intrusion Detection/Perimeter Protection System:* Coordinate with system service provider.
5. *Video Surveillance:* Coordinate with video system service provider.

3.2. SITE QUALITY ASSURANCE

A. *Acceptance:* Installer shall provide a test plan including system acceptance inspections and test demonstrations to be jointly performed by Installer and Owner. Owner shall designate personnel to observe and/or perform test steps as agreed with Installer.

1. Include the following verifications in the test plan:
    a. *Security System Operator Permissions:* Operator permissions have been established per operator job and task requirements, and that all system operator actions can be performed per assigned duties – for Owner technical and administrative personnel, contracted security officer personnel, and security system services provider technicians – per Owner preferences.
    b. *User Building Access Permissions:* Credential-holder permissions have been defined per user groups. Access is granted and denied at each reader location according to defined user groups.
    c. *Integrations:* All integrations are working fully as expected.

B. *Inspections:* Verify by inspection and formalize by signed-off inspection documentation that system installation has been performed as specified above.

C. *Acceptance Test:* Execute test plan and formalize by documentation sign-off that system performance has been demonstrated to the satisfaction of Owner. Owner's Representative retains right to suspend and/or terminate testing at any time upon failure of the system to perform as specified.

1. Collaborate with Owner's Representative prior to start of testing, to establish criteria pass/fail criteria and classification of test execution problems, such as:
    a. *Pass/fail:* Criteria determining what constitutes a test pass or failure.
    b. *Suspension and resumption:* Criteria determining when testing must be suspended and resulted later.
    c. *Show Stopper:* Stop test, fix problem and restart test from beginning.
    d. *Major Problem:* Fix problem before test can be resumed or concluded.
    e. *Minor Problem:* Add problem to "punch list", complete test.
    f. *Special Issue:* Investigate to determine which problem category above category applies.

3.3. SYSTEM ACCEPTANCE

A. Owner's Representative shall, upon successful completion of acceptance test (or subsequent punch list retest), issue a letter of acceptance.

END OF SECTION

Section 28 14 00
Access Control System Hardware

PART 1 – GENERAL

1.1. SUMMARY

A. *Section Includes:* Detailed specifications for Cloud-Based Physical Access Control System hardware including door control hardware provided as a service, plus compatible door control hardware provided by third parties independently of the System subscription.

B. See additional Summary information is provided in PART 1 of Section 28 13 00.

1.2. REFERENCE STANDARDS

A. European Commission, (CE) Compliant.

B. Federal Communications Commission (FCC), Part 15 Class A Compliant.

C. European Union, ROHS Compliant.

D. Underwriters Laboratories, Inc. (UL), UL294 Listed – Underwriters Laboratory Safety Standard 294 for Access Control System Units.

PART 2 – PRODUCTS

2.1. CLOUD-BASED PHYSICAL ACCESS CONTROL SYSTEM HARDWARE

A. Manufacturers:

1. Brivo Systems, LLC

    a. *Headquarters:* 7700 Old Georgetown Rd, Suite 300, Bethesda, MD 20814.

    b. *Telephone:* (+44) 2081 329 232.

    c. *Website:* www.brivo.com.

2. *Substitution Limitations:* Only Brivo-manufactured or Brivo-branded cellular modules, controllers, I/O expansion boards, and readers shall be used, except for third-party hardware identified herein as system-compatible.

2.2. ACCESS CONTROL PANELS

A. *Description:* IoT-native cloud-managed intelligent control panels (“controllers”, “panels”) for Cloud-Based Physical Access Control System for management of card reader and I/O board hardware, and communication with Cloud-Based Physical Access Control System data center.

B. Common Controller Design Requirements:

1. *Independent Function:* Controller must function independently of connection to cloud system, with no loss in access and I/O control functionality when not connected to cloud system.
2. *Cloud Connection:* Communication between Controller and cloud system shall be by Controller-initiated outbound connections only. Controller shall reject inbound connection attempts from any source, making it impossible to: initiate a telnet, FTP, HTTP/S or any other type of communication session; burden the device through a denial of service (DoS) attack; infect the controller with malware; or gain access to any controller data.
3. Control Panel and Cloud Data Center Authentication:
    a. Controller shall have knowledge of public key associated with digital certificate on one or more Brivo cloud data center web servers.
    b. Controller shall check validity of digital certificate presented by Brivo cloud data center and only establish connection after cloud data center’s certificate has been validated.
    c. Similarly, Brivo cloud data center shall check validity of digital certificate presented by Controller and only establish a TLS session to download data and upload event information after controller’s certificate has been validated.
4. *Secure Cloud Connection:* Communication between Controller and cloud system shall use TLS 1.2 or 3.0 with AES256 encryption and SHA256 certificate with 4096-bit key length.
5. *Secure Reader Communications:* Controller shall support OSDP and OSDP Secure Channel Protocol for secure communication with readers.
6. *Modular Design:* Expandable modular system design shall consist of main controller boards, door control boards, I/O control boards and communication module boards.
7. *Individual Fusing:* Provide individually fused interface boards, locks, and REX devices.
8. *Reader Communication Protocols:* Support all Wiegand and HID formats up to 128 bits, iCLASS RS-232 and OSDP protocols over RS485 electrical interface.
9. Network Communication Options:
    a. Any communication method (Wired, Wireless or Cellular) may be used individually per controller.
    b. Two or all three methods may be connected concurrently with different priority setting per method to establish failover capability.

C. ACS6000-E Controller:

1. *Technical Specifications:* Note that quantities are per Controller board not per system.
    a. *Max Credentials:* Unlimited credentials per panel when online and connected to Brivo Access. Up to 250,000 credentials per Controller while offline.
    b. *Max Event History:* Unlimited events per panel when online and connected to Brivo Access. 60,000 events in FIFO buffer per Controller while offline.

c. *Max Readers:* 30 total with 14 door expansion boards. 2 OSDP or Wiegand (on controller board), 28 Wiegand (on door expansion boards).

d. *Max Inputs:* 120 using 14 IO expansion boards.

e. *Max Outputs:* 118 using 14 IO expansion boards.

f. *Max Expansion Boards:* 14 total door and/or I/O expansion boards.

g. *Max Power Consumption (main board only):* 12VDC @ 1.5A peak with all relays engaged.

h. Max Controlled Elevator Floors:

1) *Destination Dispatch:* 118 per elevator via Destination Dispatch integration.

2) *Relay Interface:* Up to 118 and 30 floors per controller system via relay-based integration, depending on the elevator cab/floor combination factors explained below.

a) A single ACS6000-E control board can control up to 2 cabs and 6 floors.

b) By using additional accessory boards (up to 14 door or IO boards), up to 118 floors and 30 cabs can be controlled.

c) There is a combinatorial limitation regarding cab/floor combinations. A door board is needed for every two cabs added (for the readers). But ACS6100 door boards only have 4 outputs for floor control, not the 8 outputs on an IO board. So, for every two cabs added there is a reduction of 4 floors from the 118 maximum.

i. *Readers*: On-board reader connections.

1) Quantity: 2.

2) Type: 2 RS-485 OSDP or 2 Wiegand.

j. Inputs: On-board inputs.

1) Quantity: 8.

2) Types:

a) (2) Door position.

b) (2) Request to exit.

c) (4) Auxiliary input.

k. Outputs: On-board outputs.

1) Quantity: 6.

2) Types:

a) (2) Lock switching – Form C (SPDT) – selectable for either 350mA @ 12VDC (non-latching wet) or 6A @ 28VDC (dry).

b) (4) Auxiliary output – Form C (SPST) 3A @24VDC (dry contact).

l. Network Connections:

1) *Cellular:* USB for Cellular Network Module connection to Internet.

2) *Wi-Fi:* Wi-Fi antenna connector.

a) Provided antenna mounts to top of metal enclosure.

b) Wi-Fi connection supports CAN-BUS connected controllers.

m. *Power Consumption:* 12 VDC ± 10 %, 1.5A peak with all relays engaged.

n. Power Supply (included):

1) 12VDC @ 4.2A (Supports expansion boards and readers only)

2) Aux output – 12VDC @ 250mA (Not to be used for lock power)

o. *Transformer (included):* Varies per model of enclosure:

1) ACS6100R - (1) 19VDC @ 50W Transformer.

2) ACS6100L - (2) 19VDC @ 50W Transformers.

p. Standby Batteries and Cables (included): Varies per model of enclosure:

1) ACS6100R – (1) 12VDC 14Ah Rechargeable.

2) ACS6100L – (2) 12VDC 14Ah Rechargeable.

q. Enclosure Models:

1) ACS6100R – 17.283 inches high x 15.63 inches wide x 4.0 inches deep.

2) ACS6100L – 27.283 inches high x 15.63 inches wide x 4.0 inches deep.

3) Enclosure Details: NEMA type 1, key locks, and knockouts.

r. Communications to Cloud Data Center:

1) Ethernet 10/100 Mbps or Wi-Fi IEEE 802.11 b/g/n.

2) Cellular connection is also supported with separate optional Cellular Network Module.

3) Controller connects to Cloud Data Center using TLS 1.2 or higher and AES256 encryption with 4096-bit key.

s. Expansion Board Communication BUS:

1) *Type:* CAN BUS.

2) *Cable:* CAT5 or higher UTP cable up to 1,500 feet BUS length.

t. Product Compliance:

1) Access Control UL-294 Listed.

2) EU REACH (1907/2006).

3) CE Compliant.

4) FCC Part 15 Class A Compliant.

5) RoHS Compliant – Directive 2015/863.

2. *Backwards Compatibility:* Compatible with accessory ACS5000 controllers boards, which do not support the new OSDP functionality supported by ACS6000 and provided by the B-ACS6100-DB door board.

D. ACS300-E Controller:

1. *Technical Specifications:* Note: Quantities are per Controller board not per system.

a. *Max Credentials:* Unlimited credentials per panel when online and connected to Brivo Access. Up to 250,000 credentials per Controller while offline.

b. *Max Event History:* Unlimited events per panel when online and connected to Brivo Access. 60,000 events in FIFO buffer per Controller while offline.

c. *Max Readers:* 2.

d. *Max Inputs:* 8.

e. *Max Outputs:* 6.

f. *Max Expansion Boards:* None.

g. *Max Power Consumption:* 12VDC @ 1.5A peak with all outputs at maximum allowed current limits.

h. Max Controlled Elevator Floors:

1) 118 per elevator via Destination Dispatch integration.

2) 6 per ACS-300-E controller via relay-based integration.

i. Reader On-board reader connections:

1) Quantity: 2.

2) *Type:* 2 RS-485 OSDP or 2 Wiegand.

j. *Inputs:* On-board inputs.

1) *Quantity:* 8.

2) Types:

a) (2) Door position.

b) (2) Request to exit.

c) (4) Auxiliary input.

k. *Outputs:* On-board output.

1) *Quantity:* 2.

2) *Type:* Lock switching – Form C (SPDT) – that can be configured as Normally Open (Normal) or Normally Closed (Energized) for maglock applications up to 3A@24VDC (when using an external power supply to power the maglock's solenoid).

l. Network Connections:

1) *Cellular:* USB for Cellular Network Module connection to Internet.

2) *Wired:* RJ-45 Ethernet connector for local LAN with Internet connectivity.

3) *Wi-Fi:* Wi-Fi antenna connector.

a) Provided antenna mounts to top of metal enclosure.

b) Wi-Fi connection supports CAN-BUS connected controllers.

m. Power Supply (not included):

1) *Recommended:* Power over Ethernet (PoE+) from network switch or PoE+ injector.

2) *Alternative:* Aux output – 12VDC @ 2.5A power supply.

n. Output Reader Power: Controller can supply power to card reader devices:

1) Each Wiegand Card Reader Port can supply 350mA @ 12VDC.

2) RS-485 Port can supply a total of 350mA @12VDC.

o. Enclosure:

1) *Dimensions:* 7.5 inches high x 7.4 inches wide x 1.5 inches deep.

2) *Enclosure Material:* Plastic.

p. Communications to Cloud Data Center:

1) Ethernet 10/100 Mbps or Wi-Fi IEEE 802.11 b/g/n.

2) Cellular connection is also supported with separate optional Cellular Network Module.

3) Controller connects to Cloud Data Center using TLS 1.2 or higher and AES256 encryption with 4096-bit key.

q. Product Compliance:

1) Access Control UL-294 Listed.

2) EU REACH (1907/2006).

3) CE Compliant.

4) FCC Part 15 Class A Compliant.

5) RoHS Compliant – Directive 2015/863.

E. ACS100-E Controller and Credential Reader.

1. *Description:* The ACS100 unit combines a multi-credential reader with an access control panel in a single device.

2. *Technical Specifications:* Note: Quantities are per Controller board not per system.

a. *Max Credentials:* Unlimited credentials per panel when online and connected to Brivo Access. Up to 250,000 credentials per Controller while offline.

b. *Max Event History:* Unlimited events per panel when online and connected to Brivo Access. 60,000 events in FIFO buffer per Controller while offline.

c. *Max Readers:* 2.

d. *Max Inputs:* 3.

e. *Max Outputs:* 1.

f. *Max Expansion Boards:* None.

g. *Max Power Consumption:* 12VDC @ 1.5A peak with all outputs at maximum allowed current limits.

h. Readers:

1) One internal OSDP reader.

2) One optional external OSDP reader.

i. *Inputs:* On-board inputs.

1) Quantity: 3.

2) Types:

a) (1) Door position.

b) (1) Request to exit.

c) (1) Auxiliary input.

j. *Outputs:* On-board outputs.

1) Quantity: 1.

2) *Type:* Configurable Output Relay.

a) Switched ground relay that can be configured as Normally Open (Normal) or Normally Closed (Energized) for maglock applications up to 3A@24VDC when using an external power supply to power the lock solenoid.

b) 12VDC source present for door strike applications; no external power supply needed for the door lock relay.

k. Network Connections:

1) *Cellular:* USB for Cellular Network Module connection to Internet.

2) *Wired:* RJ-45 Ethernet connector for local LAN with Internet connectivity.

3) *Wi-Fi:* Wi-Fi antenna connector.

a) Provided antenna mounts to top of metal enclosure.

b) Wi-Fi connection supports CAN-BUS connected controllers.

l. Power Supply (not included):

1) *Recommended:* Power over Ethernet (PoE+) from network switch or PoE+ injector.

2) *Alternative:* Aux output – 12VDC @ 2.5A power supply.

m. Output Reader Power: Controller can supply power to card reader devices:

1) Each Wiegand Card Reader Port can supply 350mA @ 12VDC.

2) RS-485 Port can supply a total of 350mA @12VDC.

n. Enclosure:

1) *Dimensions:* 7.5 inches high x 7.4 inches wide x 1.5 inches deep.

2) Enclosure Material: Plastic.

o. *Communications to Cloud Data Center:*

1) Ethernet 10/100 Mbps or Wi-Fi IEEE 802.11 b/g/n.

2) Cellular connection is also supported with separate optional Cellular Network Module.

3) Controller connects to Cloud Data Center using TLS 1.2 or higher and AES256 encryption with 4096-bit key.

p. Product Compliance:

1) Access Control UL-294 Listed.

2) EU REACH (1907/2006).

3) CE Compliant.

4) FCC Part 15 Class A Compliant.

5) RoHS Compliant – Directive 2015/863.

F. MRC-EP1502, MRC-LP1502 Controllers.

1. *Technical Specifications:* Note that quantities are per Controller board not per system.

a. *Max Credentials:* Unlimited credentials per panel when online and connected to Brivo Access. Up to 240,000 credentials per Controller while offline.

b. *Max Event History:* Unlimited events per panel when online and connected to Brivo Access. 50,000 events in FIFO buffer per Controller while offline.

c. *Max Readers:* 30 total with 14 door expansion boards. 2 OSDP or Wiegand (on controller board), 28 Wiegand (on door expansion boards).

d. *Max Inputs:* 520 using MR16IN-S3 expansion modules.

e. *Max Outputs:* 516 using 14 MR16OUT-S3 expansion modules.

f. *Max Expansion Boards:* 14 total reader and/or I/O expansion modules.

g. *Max Controlled Elevator Floors:* 118 via dry contact interface or Destination Dispatch integration (system imposed limitation).

h. *Inputs:* On-board inputs.

    1) *Quantity:* 8.

    2) *Supervision:* Optional 4-state, dual end-of-line supervision.

    3) *Tamper and UPS Fault Monitoring:* Two unsupervised inputs are dedicated to cabinet tamper and UPS fault monitoring.

i. *Outputs:* On-board outputs.

    1) *Quantity:* 4.

    2) *Type:* Form C Form-C dry contacts.

        a) Normally open (NO) contact: 5 A @ 30 VDC resistive.

        b) Normally closed (NC) contact: 3 A @ 30 VDC resistive.

j. Host Communications:

    1) Ethernet connection (10-BaseT/100Base-TX) using port 443 outbound.

    2) Micro USB port (2.0) with optional adapter: pluggable model USB2-OTGE100.

k. Authentication and Encryption:

    1) *EP1502:* X.509 Digital Certificates and TLS 1.1 with AES 128-bit encryption.

    2) *LP1502:* X.509 Digital Certificates and TLS 1.2/1.1 with AES 256-bit encryption.

    3) OSDP supports Secure Communication Protocol (SCP).

l. *Serial I/O Device Communications:* 2-wire RS-485.

    1) *Communications:* 2,400 to 115,200 bps, asynchronous, half-duplex.

    2) *Parameters:* 1 start bit, 8 data bits, No parity bit, and 1 stop bit.

m. Reader Inputs:

    1) *Quantity:* 2.

    2) *Interface Type:* Wiegand or RS485 OSDP.

    3) *Power:* 12 VDC ± 10 % regulated, 300 mA maximum each reader (jumper selectable) (input voltage (VIN) must be greater than 20 VDC) or 12 to 24 VDC ± 10 % (input voltage (VIN) passed through), 300 mA maximum each reader.

    4) *Data Inputs:* TTL compatible, F/2F or 2-wire RS-485.

5) *RS-485 Mode:*

a) *Communications:* 2,400 to 115,200 bps, asynchronous, half-duplex.

b) *Parameters:* 1 start bit, 8 data bits, No parity bit, and 1 stop bit.

6) *LED Output:* TTL levels, high>3 V, low<0.5 V, 5 mA source/sink maximum.

7) *Buzzer Output:* Open collector, 12 VDC open circuit maximum, 40 mA sink maximum.

n. *Primary Power:* 12 to 24 VDC ± 10 %, 500 mA maximum (reader and USB ports not included)

o. Cable Requirements:

1) *Power and Relays:* 1 twisted pair, 18 to 16 AWG.

2) *Ethernet:* CAT-5, minimum.

3) RS-485:

a) *I/O Device Port:* 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) max.

b) *Reader Port:* 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 2,000 ft. (610 m) max.

4) *Alarm Input:* 1 twisted pair, 30 ohms maximum.

p. Product Compliance:

1) EP1502:

a) UL294 Recognized

b) FCC Part 15 Class A

c) CE Compliant

d) RoHS

2) LP1502:

a) UL294 Recognized

b) FCC Part 15 Class A

c) CE Compliant

d) RoHS (2011/65/EU & 2015/863)

e) EU REACH (1907/2006)

f) California Proposition 65

g) NIST Certified Encryption

q. Card Formats:

1) 4 active card formats per EP1502.

2) 26-bit, 37-bit, Corporate 1000 (35 and 48-bit).

r. Environmental:

1) Temperature:

a) *Storage:* -55 to +85 °C.

b) *Operating:* 0 to +70 °C.

2) *Humidity:*

a) *EP1502:* 0 to 95 % relative non-condensing humidity.

b) *LP1502:* 5 to 95 % relative non-condensing humidity.

s. Dimensions:

1) *Height:* 8 inches.

2) *Width:* 6 inches.

2.3. CELLULAR NETWORK MODULE

A. *Description:* Brivo Cellular Network Module allows Brivo control panels to communicate without the requirement of an Ethernet or Wi-Fi connection. The Cellular Network Module connects to the ACS6000 or ACS300 access control panel via the USB port.

1. For use with Brivo E Series control panels only.
2. Cellular plan billed separately.

B. Model Territory and Carrier Options:

1. Zone 1:
   a. *Territory:* United States.
   b. *Carrier:* Verizon.
   c. *SIM:* 4G SIM for connecting one ACS300 or ACS300 access control panel.
2. Zone 2:
   a. *Territory:* Canada and the United States.
   b. *Carriers:* US AT&T, T-Mobile, CAN-Bell, Telus, Rogers.
   c. *SIM:* 4G SIM for connecting one ACS300 or ACS300 access control panel.

C. Module Connectivity:

1. *Cellular Antenna:* Included antenna external to enclosure panel.
2. *Cellular Network Type:* 4G LTE.
3. *Control Panel Connection:* USB to ACS6100 or ACS300 control panel, configurable to provide primary or back-up failover connectivity.
4. *Power:* 5VDC via control panel USB connection.

2.4. DOOR CONTROL BOARDS

A. ACS6100-DB Door Board.

1. Reader ports:
   a. *Quantity:* 2.
   b. *Supported Reader Types:* Wiegand and OSDP with Secure Communication Protocol (SCP).
2. Input Points:

a. *Quantity:* 4.

b. *Supervision:* Optional four-state.

3. Output Relays:

a. *Quantity:* 4.

b. *Type:* Form C (SPST) 3A @24VDC.

4. Power consumption:

a. 12VDC @ 90mA idle / 500mA peak with all relays engaged.

5. Communication bus wiring:

a. CAN Bus: Use CAT5E (or higher) UTP cable up to 1500 feet.

6. Temperature and humidity range:

a. Operating Temp: 32° to 125° F (0° to 49° C).

b. Humidity: Max 85% non-condensing.

7. Compliance:

a. Access Control UL-294 Listed.

b. CE Compliant.

c. FCC Part 15 Class A Compliant.

d. RoHS Compliant – Directive 2015/863.

8. Dimensions:

a. Height: 3.5 inches.

b. Width: 5.75 inches.

B. MRC-MR52-S3 Reader Interface Module – Series 3.

1. *Primary Power:* 12 to 24 VDC ± 10 %, 500 mA maximum (reader and USB ports not included).

2. *Intelligent Controller Communication:* 2-wire RS-485 supporting 9600, 19200, 38400 or 115200 bps.

3. Outputs:

a. Quantity: 6.

b. Type: Form-C with dry contacts.

1) Normally open (NO) contact: 5 A @ 30 VDC resistive.

2) Normally closed (NC) contact: 3 A @ 30 VDC resistive.

4. Readers:

a. Quantity: 2.

1) *Power:* 12 VDC ± 10 % regulated, 300 mA maximum each reader (jumper selectable) (input voltage (VIN) must be greater than 20 VDC) or 12 to 24 VDC ± 10 % (input voltage (VIN) passed through), 300 mA maximum each reader.

2) *Data Inputs:* TTL compatible, F/2F or 2-wire RS-485.

3) *RS-485 Mode:*

a) *Communications:* 2,400 to 115,200 bps, asynchronous, half-duplex.

b) *Parameters:* 1 start bit, 8 data bits, No parity bit, and 1 stop bit.

4) *LED Output:* TTL levels, high>3 V, low<0.5 V, 5 mA source/sink maximum.

5) *Buzzer Output:* Open collector, 12 VDC open circuit maximum, 40 mA sink maximum.

5. Cable Requirements:
   a. *Power and Relays:* 1 twisted pair, 18 to 16 AWG.
   b. *Ethernet:* CAT-5, minimum.
   c. RS-485:
      1) *I/O Device Port:* 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) max.
      2) *Reader Port:* 1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 2,000 ft. (610 m) max.
   d. *Alarm Input:* 1 twisted pair, 30 ohms maximum.
6. Environmental:
   a. Temperature:
      1) *Storage:* -55 to +85 °C.
      2) *Operating:* 0 to +70 °C.
   b. *Humidity:* 5 to 95 % relative humidity non-condensing.
7. Dimensions:
   a. *Width:* 6 inches.
   b. *Length:* 1 inch.
   c. *Height:* 8 inches.
8. *Weight:* 11 ounces.
9. Product Compliance:
   a. UL294 Recognized
   b. FCC Part 15 Class A
   c. CE Compliant
   d. RoHS (2011/65/EU & 2015/863)
   e. EU REACH (1907/2006)
   f. California Proposition 65

2.5. I/O EXPANSION BOARDS

A. ACS6100-IO Input/Output Board.
   1. Input Points:
      a. *Quantity:* 8.

b. *Supervision:* Optional four-state.

2. Output Relays:
   a. *Quantity:* 8.
   b. *Type:* Form C (SPST) 3A @24VDC general purpose (dry only).
3. Power consumption:
   a. 12VDC @ 90mA idle / 400mA peak with all relays engaged.
4. Communication bus wiring:
   a. *CAN Bus:* Use CAT5E (or higher) UTP cable up to 1500 feet.
5. Temperature and humidity range:
   a. *Operating Temp:* 32° to 125° F (0° to 49° C).
   b. *Humidity:* Max 85% non-condensing.
6. Compliance:
   a. Access Control UL-294 Listed.
   b. CE Compliant.
   c. FCC Part 15 Class A Compliant.
   d. RoHS Compliant – Directive 2015/863.
7. Dimensions:
   a. *Height:* 3.5 inches.
   b. *Width:* 5.75 inches.

B. MRC-MR16IN-S3 Input Expansion Board.
1. Primary Power:
   a. 12-24VDC ±10%, 1100 mA maximum.
   b. 12VDC at 850mA nominal.
   c. 24VDC at 450mA nominal.
2. Communication:
   a. *Cable:* 2-wire RS-485.
   b. *Maximum Distance:* 4,000 feet using Belden 9841.
3. Inputs:
   a. *Quantity:* 18.
      1) Tamper and UPS Fault Monitoring:
         a) *Quantity:* 2.
         b) *Type:* Unsupervised inputs dedicated to tamper and power monitoring.
      2) General Purpose:
         a) *Quantity:* 16.
         b) *Type:* Programmable circuit.

4. Outputs:
    a. *Quantity:* 2.
    b. *Type:* Form-C with dry contacts.
        1) Normally open (NO) contact: 5 A @ 30 VDC resistive.
        2) Normally closed (NC) contact: 3 A @ 30 VDC resistive.
5. Temperature:
    a. *Storage:* -55 to +85 °C.
    b. *Operating:* 0 to +70 °C.
6. *Humidity:* 10 to 95 percent relative humidity non-condensing .
7. Product Compliance:
    a. UL294 Recognized.
    b. FCC Part 15 Class A.
    c. CE Compliant.
    d. RoHS (2011/65/EU & 2015/863).
    e. EU REACH (1907/2006).
    f. California Proposition 65.
8. Offline mode operation:
    a. *Input Mode:* Programmable for offline conditions.

C. MRC-MR16OUT-S3 Output Expansion Board.
1. Primary Power:
    a. 12-24VDC ±10%, 1100 mA maximum.
    b. 12VDC at 850mA nominal.
    c. 24VDC at 450mA nominal.
2. Communication:
    a. *Cable:* 2-wire RS-485.
    b. *Maximum distance:* 4,000 feet using Belden 9841.
3. *Inputs:*
    a. Quantity: 2.
        1) *Type:* Unsupervised inputs dedicated to tamper and power monitoring.
4. Outputs:
    a. *Quantity:* 16.
    b. *Type:* Form-C with dry contacts, 5 Amp at 28VDC.
5. Temperature:
    a. *Storage:* -55 to +85 °C.
    b. *Operating:* 0 to +70 °C.

6. *Humidity:* 10 to 95 percent relative humidity non-condensing .
7. Product Compliance:
   a. UL294 Recognized.
   b. FCC Part 15 Class A.
   c. CE Compliant.
   d. RoHS (2011/65/EU & 2015/863).
   e. EU REACH (1907/2006).
   f. California Proposition 65.
8. Offline mode operation:
   a. *Relay Mode:* Programmable for offline conditions.

2.6. SMART POWER SYSTEM COMPATIBILITY

A. Smart Power Systems:
   1. Altronix Trove.
   2. Life Safety Power (LPS).

PART 3 – EXECUTION

3.1. EXAMINATION

A. *Verification of Conditions:*
   1. Examine pathways intended for cables for cable installation hazards and other conditions that would negatively affect cable installation.
   2. Verify mounting space allocations for electronic equipment panels.
   3. Verify actual locations of conduits and junction boxes for communications and power cabling.
   4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2. PREPARATION

A. *Setup Data:* Review configurable features of System equipment, user credentials, and access control management. Address the following network, hardware and software items prior to configuring equipment and access management parameters:
   1. Networking and Equipment Setup Preparation:
      a. Internet inbound and outbound bandwidth requirements, Internet Service Provider, and service subscription level.
      b. Obtain manufacturer equipment installation manuals and hardening guides.
      c. Establish deployment network security plan, consistent with existing Customer network security practices, equipment networking requirements and device hardening guidance. Include roles and responsibilities for verification and validation of security configurations.

2. Equipment Setup Preparation:
    a. Obtain manufacturer equipment operation manuals and setup guidance.
    b. Develop credential scheme, defining credential formats and encoding.
    c. Document equipment configuration to be set up for each piece of on-premises access control equipment.
    d. Perform pre-installation procedures documented in system and device manufacturer installation manuals or other instructions.

B. *Coordination with Trades:* As applicable for the deployment installation and setup work, coordinate with trades planners and technicians, and technical service providers, for:
    1. *Electric Power:* Electric power provision requirements
    2. *Elevator Systems:* Elevator control/destination dispatch interface/integration
    3. *Information Systems:* Interface/integration for the one-way or two-way exchange of information related to risk related site activity and conditions.
    4. *Fire Alarm Systems:* Interface to fire alarm system control panels for receipt of fire alarm notifications.

3.3. INSTALLATION

A. Contractor shall fulfill the following requirements:
    1. Install, configure and connect existing and new on-premises physical access control system equipment and devices to achieve the access control functionality as agreed with the Customer, in accordance Manufacturer's guidance and instructions, and in conformance to applicable building codes.
    2. Cable and Wiring:
        a. Install system and device cable in dedicated conduit. System and device cable shall not share conduit, raceways, compartments, outlet boxes, junction boxes or similar fitting with other building wiring.
        b. Wiring conductors connected to terminal strips shall be individually numbered and each cable or wiring group being extended from a panel or cabinet to a building-mounted device shall be identified with the name and number of the particular device as identified and shown on project drawings.
        c. Exposed wiring inside and outside the control console, cabinets, boxes and similar enclosures, shall be dressed down neatly and secured with wiring cleats or wire ties.
        d. Cabinets, boxes, and similar enclosures containing security system components and/or cabling, which may easily be accessible to employees or to the public, shall be provided with a lock. Boxes above ceiling level in occupied building areas shall not be considered to be accessible. Cabinets, boxes, and similar enclosures containing security system components shall incorporate a tamper switch that is monitored by the system and whose activation initiates tamper notifications to the Customer and the security systems service contractor, configured according to their preferences.
    3. Drawing and Diagram Usage:

a. *Device Locations:* System devices identified on building drawings are intended to generally indicate areas where such devices are to be located. Installers shall be responsible for determining final location of these devices in accordance with Owner's requirements.

b. *Cabling Components:* Riser diagrams are schematic and do not show every conduit, wire box, fitting, or other accessory required. Provide such materials as necessary for a complete and functioning installation. Install in accordance with referenced codes and these specifications. Use weatherproof equipment or covers where installed in areas exposed to weather.

3.4. SITE QUALITY ASSURANCE

A. *Inspections:* Verify by inspection and formalize by signed-off inspection documentation that system installation has been performed as specified above.

B. *Acceptance Test and System Acceptance:* See Section 28 13 00 PART 3.

END OF SECTION

City of Fontana Navigation Center

11109 Jasmine St. • Fontana, CA 92337

PREPARED BY

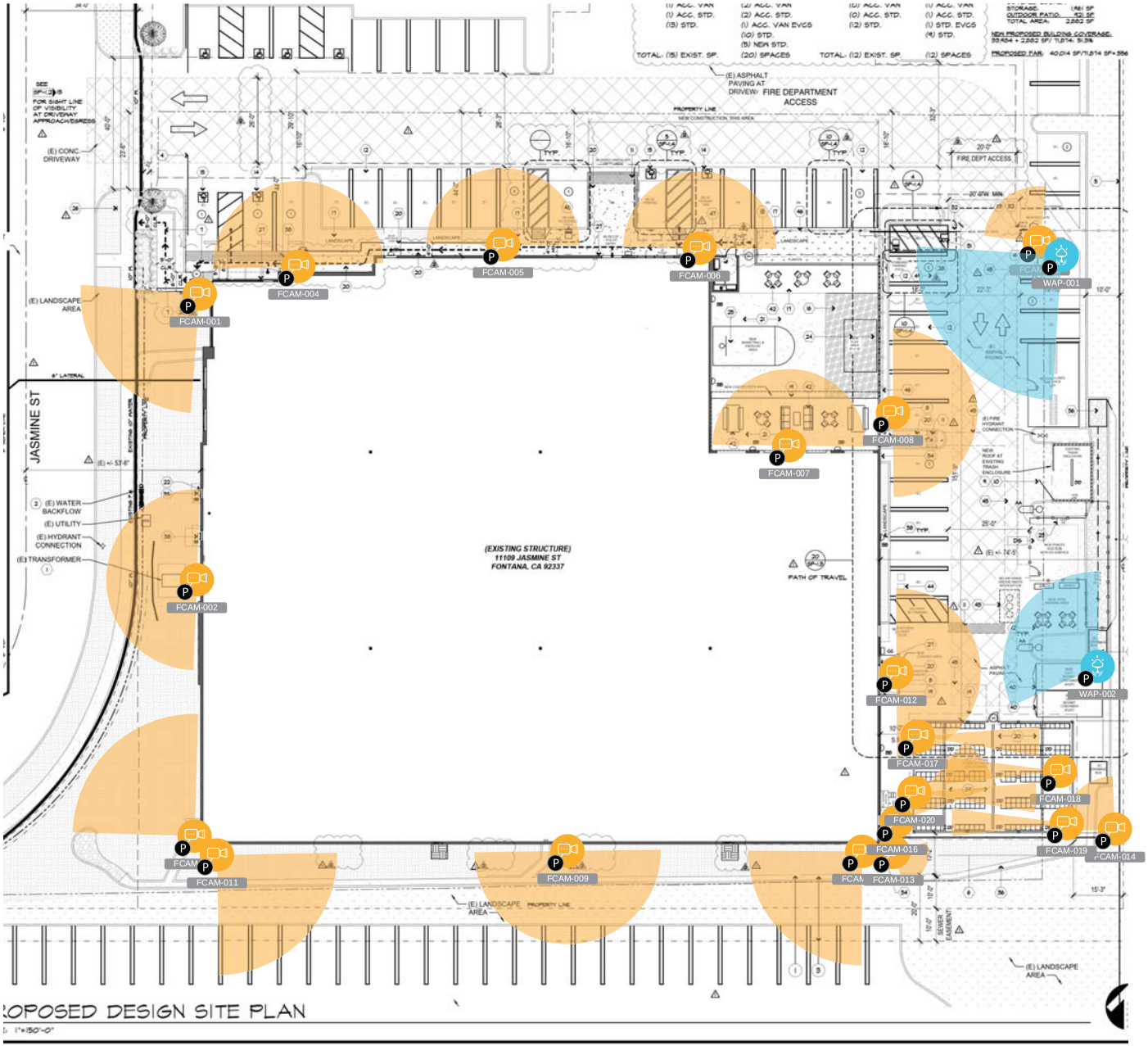
Campbell Wright

SoCal Access and Video's Team

June 13, 2026

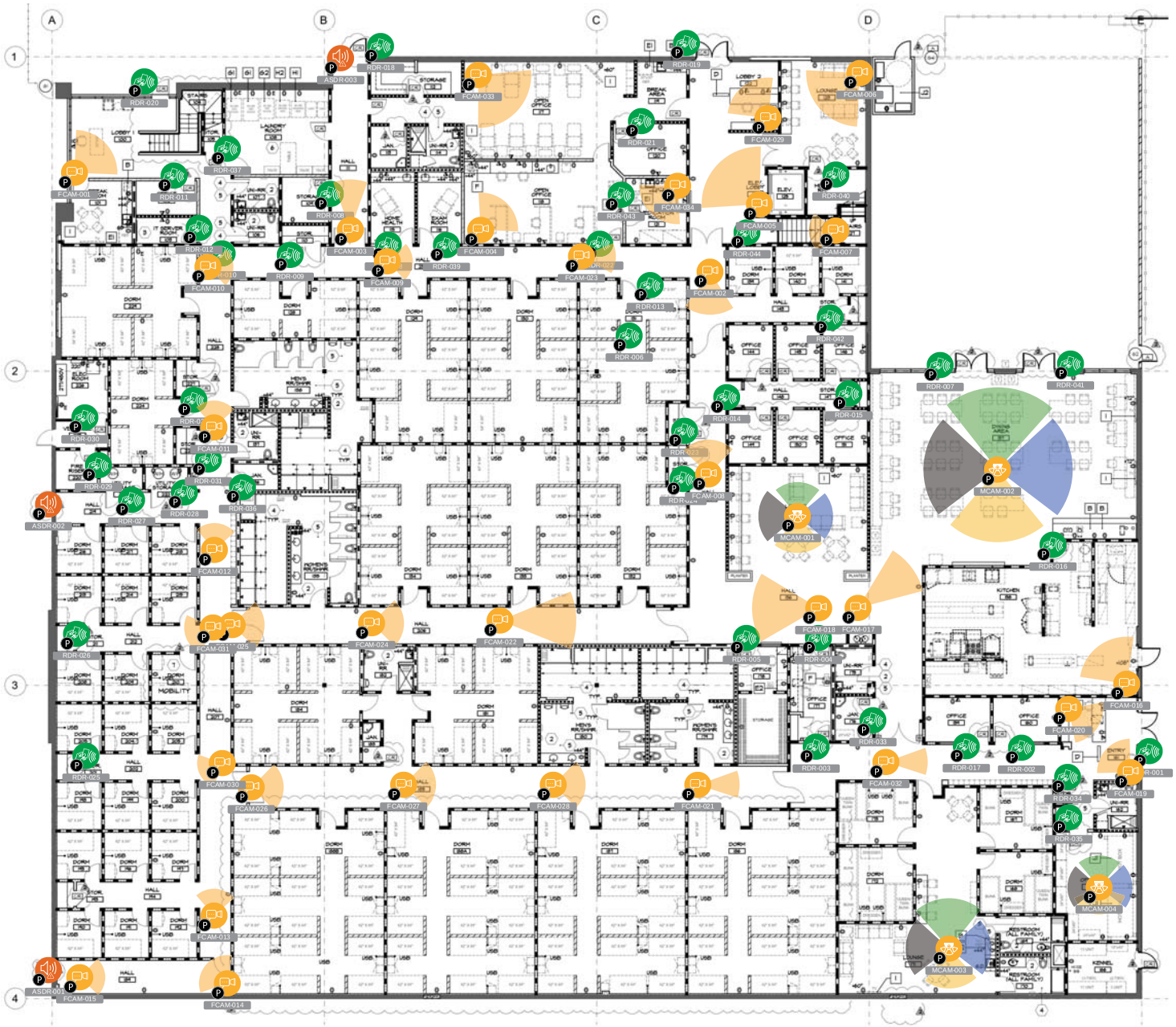
ADDENDUM 2 - 3.1.d

Element Name	Quantity
Fixed Camera	60
Card Reader	46
Multi-Lens Camera	6
Wireless Access Point	5
Alarm Sounder	3


FIRE DEPARTMENT ACCESS
(E) ASPHALT PAVING AT DRIVEWAY
(E) CONC. DRIVEWAY
(E) LANDSCAPE AREA
JASMINE ST
(E) WATER BACKFLOW
(E) UTILITY
(E) HYDRANT CONNECTION
(E) TRANSFORMER
(EXISTING STRUCTURE)
11109 JASMINE ST
FONTANA, CA 92337
PATH OF TRAVEL
FIRE DEPT ACCESS
FCAM-001
FCAM-002
FCAM-004
FCAM-005
FCAM-006
FCAM-007
FCAM-008
FCAM-009
FCAM-011
FCAM-012
FCAM-013
FCAM-014
FCAM-016
FCAM-017
FCAM-018
FCAM-019
FCAM-020
WAP-001
WAP-002
OPOSED DESIGN SITE PLAN


A
B
C
D
E
1
2
3
4
SECOND FLOOR - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

ADDENDUM 2 - 3.1.d



SURVEY	SITE	COMPANY	REPORT BY	DATE	PAGE
City of Fontana NavCtr- Interior 1st Floor	City of Fontana Navigatio...	SoCal Access and Vid...	Campbell Wright	6/13/2026	Page 5 of 5

BUILDING AND SITE IMPROVEMENTS FOR:

WEST END REGIONAL NAVIGATION CENTER △

11109 JASMINE STREET — FONTANA, CALIFORNIA 92337

APPLICABLE CODES

BUILDING CODES:

2025 CBC/ 2024 IBC
2025 CRC/ 2024 IRC
2025 CEC/ 2024 NEC
2025 CMC/ 2024 UMC
2025 CPC/ 2024 UPC
2025 BUILDING ENERGY EFFICIENCY STANDARDS
GREEN BUILDING CODE FOR NON-RESIDENTIAL BUILDINGS

FEDERAL REQUIREMENTS
AMERICANS WITH DISABILITIES GUIDELINES AND STANDARDS 2010 EDITION.

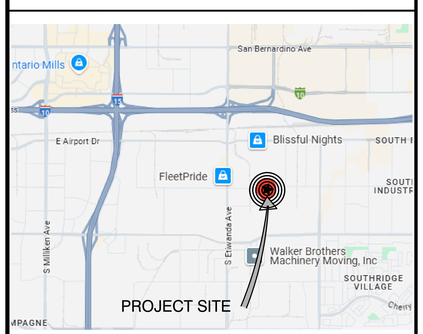
THE CONSTRUCTION PLANS AND CALCULATIONS SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE 2019 EDITION AND CALIFORNIA TITLE 24 REQUIREMENTS.

2 • THIS PROJECT IS PUBLICALLY FUNDED AND SUBJECT TO COMPLY WITH CBC SECTIONS 11B 224.8 AND 11B 233.3.

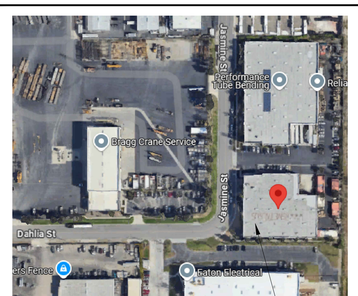
CITY REQUIREMENTS

1. PER CITY REQUIREMENTS, AT LEAST 65% OF CONSTRUCTION WASTE MATERIALS ARE TO BE RECYCLED. CONTRACTOR TO COORDINATE WITH THE CITY.
2. PER CITY REQUIREMENTS, CONTRACTOR TO COMPLETE THE CONSTRUCTION AND DEMOLITION PROJECT WASTE MANAGEMENT, WASTE REDUCTION AND RECYCLING PLAN.
3. HEALTH DEPARTMENT APPROVAL REQUIRED BEFORE ANY COOKING OPERATIONS CAN BE APPROVED OR COMMENCE.
4. ALL CONSTRUCTION ACTIVITIES THAT ARE ANTICIPATED TO EXCEED THE NOISE STANDARDS SET FORTH IN FMC 15.90 SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 9:00PM MONDAY THROUGH SATURDAY, EXCEPT IN THE CASE OF AN EMERGENCY. NOISE ASSOCIATED WITH CONSTRUCTION, REPAIR, REMODELING OR GRADING OF ANY REAL PROPERTY MUST COMPLY WITH THE STANDARDS SET FORTH IN FMC 15.90 BETWEEN 8:00PM AND 7:00AM MONDAY THROUGH SATURDAY AND AT ANY TIME ON SUNDAY OR CITY RECOGNIZED HOLIDAYS. ALL ON-SITE CONSTRUCTION EQUIPMENT SHALL HAVE PROPERLY OPERATING MUFFLERS AND APPLICANT SHOULD UTILIZE THE QUIETEST EQUIPMENT AVAILABLE.

VICINITY MAP



KEY PLAN



PROJECT LOCATION
11109 JASMINE ST.
FONTANA, CA 92337

TENANT IMPROVEMENTS
FIRST AND SECOND FLOOR

SCALE: N.T.S.

PROJECT DATA △

2 △ REGUPERATIVE CARE

THE REGUPERATIVE CARE CENTER WILL PROVIDE A SAFE ENVIRONMENT TO RECOVER FROM ILLNESS OR INJURY AFTER A HOSPITAL STAY. CLIENTS MAY BE ELIGIBLE FOR STAYS OF UP TO 30 DAYS. KEY SERVICES INCLUDE MEDICAL OVERSIGHT, MEDICATION MANAGEMENT, CONNECTIONS TO MEDICAL AND BEHAVIORAL HEALTH RESOURCES, AND STABLE HOUSING. HOSPITALS AND COUNTY STREET OUTREACH TEAMS WILL BE THE PRIMARY REFERRAL SOURCES. NO ON-SITE MEDICAL SERVICES ARE PROVIDED.

NON-CONGREGATE BEDS ARE AVAILABLE FOR STAYS UP TO 6 MONTHS.

NAVIGATION CENTER

THE NAVIGATION CENTER WILL BE COMPRISED OF BED GENERAL POPULATION SECTION AND A SEPARATE FAMILY SECTION. CLIENTS ARE ELIGIBLE FOR STAY UP TO 6 MONTHS. NO ON-SITE MEDICAL SERVICES ARE PROVIDED.

AMENITIES

DINING ROOM, LOUNGE, AND COMPUTER LAB, OUTDOOR RECREATIONAL AREA INCLUDING OUTDOOR FURNITURE, A HALF-COURT BASKETBALL, EXERCISE EQUIPMENT, PLAYGROUND, AND A GARDEN. THE BUILDING ALSO HAS SKYLIGHTS THROUGHOUT THE FACILITY. A 1,200 SF COMMERCIAL KITCHEN FOR FOOD PREPARATION AND CULINARY TRAINING IS INCORPORATED INTO THE PLAN.

LAUNDRY FACILITY WITH COMMERCIAL EQUIPMENT WILL BE OPERATED BY STAFF.

GENERAL OFFICES INCLUDING INTAKE ROOMS, HUDDLE ROOMS WHERE CLIENTS CAN MEET WITH STAFF, CLASSROOMS, MEETING ROOMS, STAFF LOUNGE, MULTI PURPOSE ROOM

NEW ELEVATOR TO SERVE TWO FLOORS

DETACHED COVERED OPEN 4-SIDES LOCKER AREA STRUCTURE WITH INDIVIDUAL LOCKERS FOR CLIENTS' BELONGINGS

EXTERIOR DOG RUN AND INTERIOR KENNELS

SEPARATE SMOKING AREA

COMPLIANCE AND FUNDING

THIS PROJECT COMPLIES WITH AB 101 FOR LOW-BARRIER NAVIGATION CENTERS, DHCS GUIDELINES FOR REGUPERATIVE CARE, AND LOCAL EMS PROTOCOLS FOR SOBERING CENTERS. FUNDING WILL BE SECURED THROUGH A COMBINATION OF STATE AND FEDERAL GRANTS (E.G. HOMELESS HOUSING, ASSISTANCE, AND PREVENTION PROGRAM), MEDI-CAL REIMBURSEMENTS, AND PRIVATE DONATIONS. PLAYA RESOURCES HAS PRELIMINARY PARTNERSHIPS WITH INLAND EMPIRE HEALTH PLAN AND SAN BERNARDINO COUNTY BEHAVIORAL HEALTH FOR REFERRALS AND SUPPORT.

PROJECT DESCRIPTION:

RENOVATION TO INCLUDE CONVERSION OF EXISTING OFFICE/WAREHOUSE STRUCTURE INTO A PRIVATELY OPERATED PERMANENT SHELTER FACILITY.

SCOPE OF WORK SHALL INCLUDE INTERIOR ALTERATIONS, MINOR EXTERIOR IMPROVEMENTS, DETACHED COVERED ACCESSORY STORAGE STRUCTURE, SITE MODIFICATIONS, INCLUDING PERIMETER FENCING AND ROLLING GATE AND ON-SITE ACCESSIBILITY REMEDIATION.

ALL SHELTER RESIDENTS SHALL BE AMBULATORY.

THIS FACILITY IS NOT INTENDED TO PROVIDE SERVICES TO PATRONS WITH AMBULATORY CARE NEEDS INCLUDING MEDICAL, SURGICAL, PSYCHIATRIC, NURSING AS DEFINED CBC CH 2-19.

THE FACILITY WILL COMBINE THREE COMPLEMENTARY SERVICES IN A SINGLE 42,000-SQUARE-FOOT BUILDING: A NAVIGATION CENTER FOR SAFE SHELTER AND SERVICES COORDINATION, REGUPERATIVE CARE FOR POST-ACUTE MEDICAL RECOVERY, AND A SOBERING CENTER FOR SAFE DETOXIFICATION, WITH A MAXIMUM CENSUS OF 200 INDIVIDUALS. THE CENTER WILL OPERATE 24/7 AND INCLUDE A NURSING FIRST FOCUS, EMPHASIZING LOW-BARRIER ACCESS, INTEGRATED CARE, AND RAPID TRANSITIONS TO PERMANENT HOUSING.

STAFF TO INCLUDE:

REGISTERED NURSE (RN), VOCATIONAL NURSE, CERTIFIED NURSING ASSISTANTS AND EMERGENCY MEDICAL TECHNICIANS (EMTS) FOR MEDICAL SUPPORT, PEER MANAGERS AND PEER NAVIGATORS, SECURITY PERSONNEL, SITE SUPPORT STAFF TO MAINTAIN.

THERE WILL BE NO WALK-UPS TO THE FACILITY AND THE FACILITY WILL BE STAFFED 24/7/365

SOBERING CENTER

THE SOBERING CENTER WILL PROVIDE SHORT-TERM (4-24 HOURS), NON-MEDICAL CRISIS INTERVENTION SERVICES FOR INDIVIDUALS EXPERIENCING ACUTE ALCOHOL OR DRUG INTOXICATION. KEY SERVICES INCLUDE INTAKE ASSESSMENTS, VITAL SIGNS MONITORING, HYDRATION AND NUTRITION SUPPORT, SAFETY STABILIZATION, AND REFERRALS TO HIGHER LEVELS OF CARE. NO ON-SITE MEDICAL WILL BE PROVIDED.

REFER TO SHEET CS-2 FOR COMPLETE OPERATIONS DESCRIPTION AND OCCUPANCY DIAGRAMS FOR BOTH FLOORS

• PER CBC TABLE 11B 224.2: 1-25 SLEEPING UNITS: 1 IS REQUIRED TO BE A MOBILITY UNIT. THAT UNIT IS FORM ROOM NO. 210.

PROJECT DIRECTORY

OWNER:
CITY OF FONTANA
11109 JASMINE STREET
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CONTACT: CHRIS SMETHURST
SENIOR ENGINEER
EMAIL: csmethurst@fontanaca.gov
PHONE: 909-350-6644

ARCHITECT:
BORDERS ARCHITECTS
1675 SCENIC AVENUE, STE. 210
COSTA MESA, CA 92626

CONTACT: LOREN DELLA MARNA, AIA
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CONTACT: SHELLY DILAURO
EMAIL: shelly.d@bordersarchicts.com

PHONE: 949-851-1317

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STRUCTURAL ENGINEER:
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26 EXECUTIVE PARK, STE. 170
IRVINE, CA 92614
PHONE: 949-862-8510

CONTACT: RYAN BISHOFF
EMAIL: rbishoff@bjsce.com

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PHONE: 949-862-8510

CONTACT: ED MELO
EMAIL: ed.melo@bjsce.com

KITCHEN CONSULTANT:
AVANTI
9149 C AIRPORT LOOP DRIVE
COSTA MESA, CA 92626
PHONE: 949-849-2935
CONTACT: JEREMY LINANE, SENIOR DESIGNER
EMAIL: jlinane@avanticorporate.com

ELEVATOR CONSULTANT:
HKA ELEVATOR CONSULTING
23211 SOUTH POINTE DRIVE
LAGUNA HILLS, CA
PHONE: 949-348-4711
CONTACT: ALAN TAYLOR
EMAIL: ataylor@hkaconsulting.com

OCCUPANCY GROUP FOR THIS PROJECT:

DORMITORY AREA	R-2 RESIDENTIAL
OFFICE AREAS & SUPPORT	B
DINING FACILITY & COMMERCIAL KITCHEN	A-2
△ LOCKER STORAGE	S-2
TRASH ENCLOSURE	S-2

APN #:	0238-111-53
ACRES:	1.65 AC
PARCEL NO.:	1661B PARCEL 2 BOOK 209 PAGE 71
ZONING:	INDUSTRIAL (I-L)
CONSTRUCTION TYPE:	△ TYPE III-B
SPRINKLERS:	YES - EXISTING SYSTEM SHALL BE MODIFIED TO ACCOMMODATE NEW CONFIGURATION. UNDER SEPARATE PERMIT.
NUMBER OF STORIES:	2

BUILDING AREA:

PROPOSED FIRST FLOOR:	33,984 SQ. FT.	(NO CHANGE)
PROPOSED SECOND FLOOR:	6,187 SQ. FT.	(NEW)
TOTAL (EXISTING) BUILDING AREA:	40,004 SQ. FT.	
NEW ACCESSORY STRUCTURE:		
*OPEN SIDED COVERED LOCKER AREA:	1,688 SQ. FT.	(NEW)
TOTAL PROPOSED BUILDING AREA:	41,692 SQ. FT.	
△ *EXISTING TRASH ENCLOSURE WITH NEW ROOF	211 SQ. FT.	EXISTING (NEW ROOF)

OCCUPANT LOAD CALCULATION FOR EXITING

	AREAS	LOAD FACTOR	TOTAL OCC.	EXITS REQ'D.
OFFICE & OFFICE, SUPPORT	1,688 S.F.	1/150	11	1
OFFICE & OFFICE, SUPPORT CIRCULATION	1,043 S.F.	(INCIDENTAL TO OCCUPANT LOAD)		
DORMITORY & DORMITORY SUPPORT	12,090 S.F.	1/50	241	2
DORMITORY & DORMITORY SUPPORT CIRCULATION	6,066 S.F.	(INCIDENTAL TO OCCUPANT LOAD)		
KITCHEN	316 S.F.	1/200	2	1
DINING	1,745 S.F.	1/15	116	2
STORAGE	519 S.F.	1/500	2	1
TOILET/SHOWER	2,316 S.F.	(INCIDENTAL TO OCCUPANT LOAD)		
TOTAL:	28,141 S.F.		372	7

NOTE:

1. EXISTING EXIT DOORS ARE LOCATED GREATER THAN 1/3 THE DIAGONAL DISTANCE OF THE FLOOR PLATE AND EXIT ACCESS TRAVEL DISTANCE IN ALL CASES IS LESS THAN 250' PER CBC CHAPTER 10, TABLE 1017.2 WITH A BUILDING EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH CBC SECTION 903.3.1.1.
2. PER TABLE 508.4 OCCUPANCY GROUP R-2 SHOULD HAVE A 1-HOUR SEPARATION FROM GROUP B AND A-2
3. REFER TO EXIT PLAN ANALYSIS, SHEETS EX-1 AND EX-2 AND OCC-1 AND OCC-2 AND XT-1 AND XT-2 FOR ANALYSIS AND SUMMARY OF AREA SEPARATIONS, EXIT QUANTITIES, PATH OF TRAVEL AND REQUIRED SIGNAGE FOR EACH AREA NOTED ABOVE.

TOTAL REQUIRED FIXTURES (R2 OCC + B OCC + A2 OCC)

(R2 + B + A2)	WC	UR	LAV	SH	DF	SERV SINK
TOTAL	15	6	16	28	3	3

TOTAL PROVIDED FIXTURES (R2 OCC + B OCC + A2 OCC)

(R2 + B + A2)	WC	UR	LAV	SH	DF	SERV SINK
TOTAL	26	7	23	28	4	5

2 △ BASIC ALLOWABLE BUILDING AREA INCREASE
CBC CODE ANALYSIS - MIXED OCCUPANCIES

1. PROPOSED OCCUPANCIES
   - B - BUSINESS (OFFICES)
   - R-2 RESIDENTIAL
   - A-2 DINING FACILITIES
   - S-2 LOW HAZARD
2. CONSTRUCTION TYPE: TYPE III-B FULLY SPRINKLERED
   - SEPARATED OCCUPANCIES 508.1
   - ALLOWABLE AREA FACTOR TABLE 506.2
   - FRONTAGE INCREASE FACTOR TABLE 506.3.3

OCC	BASE (NS)	At =TABULAR AREA	STORIES (NS)	STORIES (S) ACTUAL	AREA (SF) ACTUAL 1st	AREA (SF) ACTUAL 2nd
A-2	9,500	28,500 (SM)	2	2 NO ING	4,680	0
R-2	16,000	48,000 (SM)	5	3 NO ING	20,079	0
B	19,000	57,000 (SM)	3	3	8,667	6,187

1. BASIC ALLOWABLE
   - MOST RESTRICTIVE A-2
2. FRONTAGE INCREASE Lf (SEE NO. 6 BELOW)
   If = ((F/P) - 0.25) x W/30
   F/P=1 (30' MIN FIRE SEPARATION OPEN AREAS, ALL SIDES) WHERE W=30'
   68.6% PERIMETER WALLS GREATER THAN 30' OPEN YARD
   If = (1.0 - 0.25) x .30 => .75 x .5 = .375 (PER TABLE 506.3.3)
3. ALLOWABLE AREA TABULATION => Aa = At + (NS x If)

FIRST FLOOR
- FOR A-2 OCCUPANCY: 24,000 + (9,500 x .375) = 28,500 + 3,562.5 = 32,062.5 SF
- FOR R-2 OCCUPANCY: 48,000 + (16,000 x .375) = 48,000 + 6,000 = 54,000 SF
- FOR B OCCUPANCY: 57,000 + (19,000 x .375) = 57,000 + 7,125 = 64,125 SF

UNITY SEPARATED OCCUPANCY RATIO

ACTUAL AREA A-2 / ALLOWABLE AREA A-2	+	ACTUAL AREA R-2 / ALLOWABLE AREA R-2	+	ACTUAL AREA B / ALLOWABLE AREA B	
4,680 SF / 32,062	+	20,079 SF / 54,000	+	8,667 SF / 64,125	= .145 + .371 + .135 = .651 < 1.0 <= COMPLIES

SECOND FLOOR
- FOR A-2 OCCUPANCY: 24,000 + (9,500 x .375) = 28,500 + 3,562.5 = 32,062.5 SF
- FOR R-2 OCCUPANCY: 48,000 + (16,000 x .375) = 48,000 + 6,000 = 54,000 SF
- FOR B OCCUPANCY: 57,000 + (19,000 x .375) = 57,000 + 7,125 = 64,125 SF

UNITY SEPARATED OCCUPANCY RATIO

ACTUAL AREA A-2 / ALLOWABLE AREA A-2	+	ACTUAL AREA R-2 / ALLOWABLE AREA R-2	+	ACTUAL AREA B / ALLOWABLE AREA B	
0 SF / 32,062	+	0 SF / 54,000	+	6,187 SF / 64,125	= 0 + 0 + .098 = .098 < 1.0 <= COMPLIES

SEPARATED OCCUPANCIES ALLOWED FIRST FLOOR AND SECOND FLOOR

5. AREA SEPARATIONS PER TABLE 508.4 AND SECTION 508.3.3

A/B	1 HR
A/R2	1 HR
B/R2	1 HR

6. OPEN SIDE YARD AREAS:
   NORTH: 40'-0" APPROXIMATELY
   WEST: 53' TO CL OF STREET
   SOUTH: 191'-9.5" TO P.L.
   EAST: 74'-5" TO P.L.

FONTANA NAVIGATION CENTER PLUMBING FIXTURE ANALYSIS:

R2 RESIDENTIAL OCCUPANCY - PER 2025 PLUMBING CODE
TOTAL OCCUPANT LOAD= (210) BEDS
(105) MEN, (105) WOMEN
FIXTURES REQUIRED: (210) BEDS

(R2)	WC	UR	LAV	SH	DF	SERV SINK
MEN (105)	5	5	6	14	1	1
WOMEN (105)	6	0	8	14	1	1
TOTAL	11	5	14	28	2	2

FIXTURES PROVIDED: (210) BEDS

(R2)	WC	UR	LAV	SH	DF	SERV SINK
MEN	5	3	3	11	1	1
WOMEN	5	0	5	11	1	1
ALL GENDER	6	1	6	6	-	-
TOTAL	16	4	14	28	2	2

A-2 OCCUPANCY - TABULATIONS

A2 ASSEMBLY OCCUPANCY - PER 2025 PLUMBING CODE
FIRST FLOOR OCCUPANCY- DINING AREA (52 OCC)
FIXTURES REQUIRED:

(A-2)	WC	UR	LAV	SH	DF	SERV SINK
MEN	1	1	1	--	1	1
WOMEN	2	0	1	--		--
TOTAL	3	1	2	--	1	1

FIXTURES PROVIDED:

(A-2)	WC	UR	LAV	SH	DF	SERV SINK
MEN	1	1	1	--	1	1
WOMEN	2	0	1	--	--	--
TOTAL	3	1	2	--	1*	1

* SELF SERVE @ BEV COUNTER

B OCCUPANCY - PER 2025 PLUMBING CODE
FIRST FLOOR OCCUPANCY AREA: 8,667.63 SF
SECOND FLOOR OCCUPANCY AREA: 6,186.82 SF
TOTAL OCCUPANCY AREA: 14,854.55 SF
B OCCUPANCY LOAD FACTOR (OLF)= 1/150
= 14,854.55 SF / 150 = 99.03 OCCUPANTS, SAY 100

B OCCUPANCY - BUSINESS (STAFF) REQUIRED FIXTURES

(B)	WC	UR	LAV		DF	SERV SINK
MEN (50)	1	1	1		1	1
WOMEN (50)	3	0	1			
TOTAL	4	1	2		1	1

B OCCUPANCY - BUSINESS (STAFF) PROVIDED FIXTURES

(B)	WC	UR	LAV		DF	SERV SINK
MEN	1	1	1		(2) BREAK ROOMS	(1) JAN CLOSET (2ND FLR)
WOMEN	2	0	1			(1) JAN CLOSET (1ST FLR)
ALL GENDER	4	1	4			
TOTAL	7	2	6		2	2

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CONSULTANT

PROJECT △
WEST END REGIONAL NAVIGATION CENTER
11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR
FONTANA CALIFORNIA

TITLE
COVER SHEET

Revisions	By	Date
△ 1 PC CORR 1/BID ISSUE 1	MFM	4/24/26
△ 2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	NONE

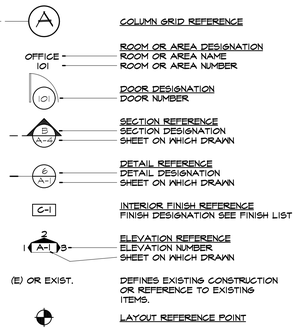
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ABBREVIATIONS

&	And
∠	Angle
@	At
℄	Centerline
ø	Diameter or Round
⊥	Perpendicular
℮	Penny
□'	Square or square feet
A.B.	Anchor Bolt
ABV.	Above
ACOUS.	Acoustical
A.C.T.	Acoustical Ceiling Tile
ADJ.	Adjacent / Adjustable
A.F.F.	Above Finish Floor
AGGR.	Aggregate
AL.	Aluminum
APPROX.	Approximate
ARCH.	Architect (ural)
ASB.	Asbestos
ASPH.	Asphalt
BD.	Board
BEL.	Below
BIT.	Bitumous
BLDG.	Building
BLKG.	Blocking
BM.	Beam
B.M.	Bench Mark
BOT.	Bottom
BRG.	Bearing
B.S.	Both Sides
B.W.	Both Ways
B.U.R.	Built Up Roofing
CAB.	Cabinet
C.B.	Catch Basin
C.B.C.	California Building Code
CEM.	Cement
CER.	Ceramic
C.I.	Cast Iron
C.J.	Ceiling Joist / Conrol Joint
CLG.	Ceiling
CLO.	Closet
CLR.	Clear
C.M.T.	Ceramic Mosaic Tile
C.M.U.	Concrete Masonry Unit
CNTR.	Counter
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continuous
CONTR.	Contractor
CORR.	Corridor
C.T.	Ceramic Tile
CTR.	Center
CTSK.	Countersunk
CU.	Cubic
CUST.	Custodian
D.	Dryer
D.D.	Deck Drain
DBL.	Double
DEPT.	Department
D.F.	Douglas Fir
D.FN.	Drinking Fountain
D.F.P.A.	Douglas Fir Plywood Assoc.
DET.	Detail
DIM.	Dimension
DISPS.	Dispenser
DISP.	Disposal
DN.	Down
DR.	Door
DS.	Down spout
D.S.P.	Dry Standpipe
D.W.	Dishwasher
DWG.	Drawing
E	Existing
E.	East
EA.	Each
E.A.G.	Exhaust Air Grille
E.C.	Ending Curve
E.F.	Exhaust Fan
EJ.	Expansion Joint
EL.	Elevation
ELECT.	Electrical
ELEV.	Elevator
EMER.	Emergency
ENCL.	Enclosure
E.P.	Each Place
E.P.B.	Electrical Panel board
EQ.	Equal
EQPT.	Equipment
ETC.	Et cetera
EXH.	Exhaust
EXIST.	Existing
EXP.	Expansion
EXT.	Exterior
E.W.	Each Way
F.A.	Fire Alarm
F.A.U.	Forced Air Unit
F.B.	Flat Bar
F.D.	Floor Drain
F.E.	Fire Extinguisher
F.E.C.	Fire Extinguisher Cabinet
F.GRD.	Finish Grade
F.H.C.	Fire Hose Cabinet
F.H.W.S.	Flat Head Wood Screw
FIN.	Finish
F.J.	Floor Joist
FL.	Flush
F.L.	Flow Line
FLR.	Floor
FLASH.	Flashing
FLUOR.	Fluorescent
FND.	Foundation
F.O.C.	Face of Concrete or Curb
F.O.F.	Face of Finish
F.O.G.B.	Face of Gypsum Board
F.O.M.	Face of Masonry
F.O.S.	Face of Stud or Structure
F.O.W.	Face of Wall
FRPF.	Fireproofing
F.S.	Finish Surface
FT.	Foot or Feet
FTG.	Footing
FURR.	Furring
GA.	Gauge
GALV.	Galvanised
G.B.	Grab Bar
GLS.	Glass
GND.	Ground
GR.	Grade
GYP.	Gypsum
H.B.	Hose Bib
H.C.	Hollon Core
HDWD.	Hard Wood
HDWR.	Hardware
H.M.	Hollon Metal
HORIZ.	Horizontal
HT.	Height
I.D.	Inside Diameter / Dimension
INC.	Incorporated
INSUL.	Insulation
INT.	Interior
JAN.	Janitor
JT.	Joint
KIT.	Kitchen
LAB.	Laboratory
LAM.	Laminated / Laminate
LAV.	Lavatory
L.H.	Left Hand
LT.	Light
MAS.	Masonry
MAS.MOD.	Masonry Module
MAX.	Maximum
M.B.	Machine Bolt
M.C.	Medicine Cabinet
MECH.	Mechanical
MEMB.	Membrane
MTL.	Metal
MFR.	Manufacturer
MH.	Manhole
MISC.	Miscellaneous
MNRL.	Mineral
M.O.	Masonry Opening
MOIST.	Moisture
M.S.	Machine Screw
MTD.	Mounted
MUL.	Mullion
N	New
N.	North
N.I.C.	Not In Contract
NO.	Number
NOM.	Nominal
N.T.S.	Not To Scale
O.	Oven
O/	Over
O.A.	Overall
OBS.	Obscure
O.C.	On Center
OCC.	Occupancy
O.D.	Outside Diameter / Dimension
O.F.	Overflow
O.H.S.	Oval Head Screw
OPNG.	Opening
OPP.	Opposite
OSHA	Occupational Safety and Health Administration
P.B.	Push Button
P.C.C.	Precast Concrete
P.L.	Property Line
PLT.	Plate
P.LAM.	Plastic Laminate (P.L. @ Bubbles)
PLAS.	Plaster
PLMB.	Plumbing
PLYWD.	Plywood
PNL.	Panel
POS.	Positive
PR.	Pair
PROT.BD.	Protection Board
PRTN.	Partition
P.T.	Pressure Treated
P.T.D.	Paper Towel Dispenser
P.T.D/R	Combination Paper Towel Dispenser and Receptacle
Q.T.	Quarry Tile
R.	Riser
R.A.	Return Air
RAD.	Radius
REF.	Reference
REFL.	Reflected
REFR.	Refrigerator
REG.	Register
REINF.	Reinforced
REQD.	Required
RES.	Resawn
RESIL.	Resilient
R.H.	Right Hand
R.H.S.	Round Head Screw
RM.	Room
RO.	Rough
R.O.	Rough Opening
R.O.S.	Rough Sawn
R.O.W.	Right of Way
R.R.	Roof Rafters
RDWD.	Redwood
S.	South
S.A.	Supply Air
S.A.G.	Supply Air Grille
SC.	Solid Core
S.C.D.	Seat Cover Dispenser
SCHED.	Schedule
S.D.	Soap Dispenser
SECT.	Section
SH.	Shelf
SHWR.	Shower
SHT.	Sheet
SIM.	Similar
S.M.S.	Sheet Metal Screw
S.N.D.	Sanitary Napkin Dispenser
S.N.R.	Sanitary Napkin Receptacle
SH&P.	Shelf and Pole
SPEC.	Specification
SQ.	Square
S.STL.	Stainless Steel
STA.	Station
STD.	Standard
STIFF.	Stiffener
STL.	Steel
STOR.	Storage
STRUC.	Structural
SUSP.	Suspended
SYM.	Symetrical
T.	Tread
T.&B.	Top and Bottom
T.B.	Towel Bar
TEL.	Telephone
TEMP.	Tempered / Temporary
TERR.	Terrazzo
T.&G.	Tongue and Groove
THK.	Thick
THRU.	Through
T.O.C.	Top Of Concrete / Curb
T.O.P.	Top Of Pavement
T.O.S.	Top Of Surface / Slab
T.O.W.	Top Of Wall
T.P.D.	Toilet Paper Dispenser
T.&S.	Top and Splash
T.S.E.F.	To Suit Equipment Furnished
T.V.	Television
TYP.	Typical
U.B.C.	Uniform Building Code
U.C.	Undercut
UFIN.	Unfinished
UR.	Urinal
U.N.O.	Unless Noted Otherwise
V.A.T.	Vinyl Asbestos Tile
V.C.R.	Video Cassette Recorder
V.C.T.	Vinyl Composition Tile
VERT.	Vertical
VEST.	Vestibule
W	West / Washer / Width
W/	With
W.C.	Water Closet / Wall Covering
WD.	Wood
W.H.	Water Heater
W.I.	Wrought Iron
W/O	Without
WP.	Waterproof (ing)
W.R.	Waste Receptacle
W.S.	Wood Screw
WSCT.	Wainscot
WT.	Weight
W.W.F.	Welded Wire Fabric
W.W.M.	Welded Wire Mesh
YD.	Yard
Y.D.	Yard Drain

SYMBOL LEGEND



STORM WATER POLLUTANT NOTES

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM TRANSPORTED FROM THE SITE BY FORCES OF WIND AND WATER.
3. FUELS, OILS, SOLVENTS AND OTHER MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATER. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. EXCESS OR CONCRETE WASTE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE STRUCTURES. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
5. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
6. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN THE BY RAIN OR OTHER MEANS.
7. ANY SLOPES WITH DISTURBED SPOILS OR DENUDED VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND OR WATER.
8. CONTRACTOR TO INCORPORATE APPROPRIATE STORMWATER BEST MANAGEMENT PRACTICES (BMP) FOR RELEVANT TYPES OF DEMOLITION ND CONSTRUCTION ACTIVITIES. ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY THE CITY INSPECTOR.

EXITS AND OCCUPANT LOADS

1. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF EGRESS WHEN SERVING MORE THAN 49 OCCUPANTS.
2. MINIMUM OF TWO EXITS ARE REQUIRED FOR ROOMS WHERE OCCUPANCY EXCEEDS 49.
3. ALL EXITS SHALL HAVE EXIT SIGNS AND ALL BLIND CORRIDOR TURNS SHALL HAVE DIRECTIONAL EXIT SIGNS TO DIRECT PERSONS TOWARD EXIT DOORS.
4. PANIC HARDWARE SHALL BE PROVIDED ON EXIT DOORS SERVING ROOMS, CORRIDORS, OR STAIRWAYS HANDLING AN OCCUPANT LOAD OF (49) OR MORE PERSONS FROM ASSEMBLY AREAS, "A" OCCUPANCY.
5. POST ROOM CAPACITY SIGNS AS REQUIRED BY CODE (TITLE 19) ON ROOMS OF 49 OR MORE PERSONS.
6. ALL AISLES SHALL BE MIN. 44" CLEAR WIDTH TO PUBLIC WAY.
7. EXITS SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH LIGHT HAVING AN INTENSITY OF NOT LESS THAN ONE FOOT-CANDLE AT FLOOR LEVEL.
8. EXIT ILLUMINATION SHALL BE PROVIDED WITH SEPARATE CIRCUITS OR SEPARATE SOURCES OF POWER (BUT NOT NECESSARILY SEPARATE FROM EXIT SIGNS) WHEN THESE ARE REQUIRED FOR EXIT SIGN ILLUMINATION. SEE CBC SECTION 1006.1, 1006.2, 1006.3 AND 1006.4.
9. AT EVERY REQUIRED EXIT DOORWAY AND WHEREVER REQUIRED TO CLEARLY INDICATE THE DIRECTION OF EGRESS, LIGHTED EXIT SIGNS WITH LETTERS HAVING A PRINCIPLE STROKE NOT LESS THAN 3/4 INCH WIDE AND AT LEAST 6 INCHES HIGH SHALL BE POSTED ABOVE EXITS. LUMINANCE ON FACE OF SIGN SHALL BE 50 LUX.
10. EMERGENCY LIGHTING SHALL BE PROVIDED GIVING A VALUE OF ONE FOOT-CANDLE AT FLOOR LEVEL.
11. TEMPORARY EXIT SIGNS, EXIT ILLUMINATION AND EMERGENCY LIGHTING SHALL BE PROVIDED WITHIN EMPTY, NON-OCCUPIED SUITES. PROVIDE PER CODE.

⚠ DEFERRED SUBMITTALS

⚠ ⚠

1. MODIFICATIONS TO FIRE LIFE SAFETY OR BUILDING SPRINKLER SYSTEMS AS REQUIRED FOR PROJECT ON ACCORDANCE WITH CBC SECTION 907.1.1 FOR A/B/R-2 OCCUPANCY
2. NFPA 13 SPRINKLER SYSTEM
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9. STEEL FABRICATION ELEMENTS INCLUDING HANDRAILS, GUARDRAILS AND ANY STRUCTURAL ELEMENTS
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13. ELEVATOR
14. TRUSS ENGINEERING
15. PRE FABRICATED STRUCTURES

GENERAL FIRE NOTES

1. ALL CONSTRUCTION SHALL CONFORM WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES AS LISTED ON THE COVER SHEET. SEE "APPLICABLE CODES".
2. PRIOR TO ISSUANCE OF BUILDING PERMIT, THE CONTRACTOR SHALL HAVE EVIDENCE OF CURRENT WORKERS' COMPENSATION INSURANCE COVERAGE ON FILE WITH THE BUILDING DEPARTMENT IN COMPLIANCE WITH SECTION 3800 OF CALIFORNIA LABOR CODE.
3. ALL MATERIALS IN CONSTRUCTION OF IMPROVEMENTS TO BE ASBESTOS FREE.
4. THESE PLANS HAVE BEEN PREPARED UTILIZING INFORMATION, INCLUDING DIMENSIONS, CONTAINED IN DRAWINGS PROVIDED BY THE OWNER. ALTHOUGH AN EFFORT HAS BEEN MADE TO CONFIRM AS MUCH OF THIS DATA AS POSSIBLE, THE ARCHITECT DOES NOT GUARANTEE THAT THIS INFORMATION IS CORRECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING AND NEW DIMENSIONS AND CONDITIONS ON THE JOB AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY RELATED WORK.
5. ALL FLOOR PLAN DIMENSIONS ARE SHOWN TO FACE OF FINISH AND TO CENTER LINE OF COLUMNS OR WALLS EXCEPT WHERE NOTED OTHERWISE. DO NOT SCALE DRAWINGS.
6. VERIFY STATUS AND LOCATION OF ALL EXISTING UTILITIES BEFORE PROCEEDING WITH ANY WORK.
7. WORK NOT IN CONTRACT (N.I.C.): WHERE WORK OR EQUIPMENT IS INDICATED, N.I.C. OR "BY OTHERS" ON THE DRAWINGS, SUCH WORK AND OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.
8. ALL MATERIALS STORED ON THIS SITE SHALL BE PROPERLY STACKED AND PROTECTED TO APPROPRIATE SUBCONTRACTORS PRIOR TO FRAMING WALLS AND FLOORS. PROVIDE AND LOCATE REQUIRED ACCESS PANELS AFTER INSTALLATION OF MECHANICAL DUCTS, AND PLUMBING AND ELECTRICAL WORK.
9. VERIFY SIZE AND LOCATION OF DUCTS, DUCT OPENINGS, PLUMBING AND ELECTRICAL RUNS WITH APPROPRIATE SUBCONTRACTORS PRIOR TO FRAMING WALLS AND FLOORS. PROVIDE AND LOCATE REQUIRED ACCESS PANELS AFTER INSTALLATION OF MECHANICAL DUCTS, AND PLUMBING AND ELECTRICAL WORK.
10. ALL DRYWALL ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE REQUIREMENTS AND SHALL CONFORM TO ESR-2620.
11. WHERE DRYWALL PARTITION HEIGHTS ARE FOUND TO EXCEED THE BUILDING CODE LIMITATIONS, CONTRACTOR SHALL NOTIFY ARCHITECT AND MAKE ADJUSTMENT FOR STUD SIZE AND SPACING TO CONFORM WITH CODE.
12. PROVIDE STIFFENERS, BRACING, BACKING PLATES, ETC., AS REQUIRED AT PARTITIONS FOR THE SUPPORT OF ALL FIXTURES, HANDRAILS, AND OTHER EQUIPMENT.
13. ALL REQUIRED EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
14. INSTALL SUSPENDED ACOUSTICAL CEILING SYSTEMS IN COMPLIANCE WITH THE SPECIFICATIONS AND CBC SECTION 808.1.1.1.
15. MAINTAIN THE JOB SITE IN A CLEAN, ORDERLY CONDITION, FREE OF DEBRIS AND LITTER. EACH SUBCONTRACTOR, IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK, SHALL REMOVE ALL TRASH AND DEBRIS CREATED AS A RESULT OF HIS OPERATION.
16. A "CERTIFICATE OF COMPLIANCE" SIGNED BY THE GENERAL CONTRACTOR SHALL BE GIVEN TO THE BUILDING DEPARTMENT STATING THAT THE WORK HAS BEEN PERFORMED AND MATERIALS INSTALLED ACCORDING TO THE PLAN AND SPECIFICATIONS AFFECTING NON-RESIDENTIAL ENERGY.
17. LIGHTING AND VENTILATION TO BE PROVIDED PER CBC SECTION 1203.
18. ANY CONDITION NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO MATCH A SIMILAR DETAILED CONDITION OR AS DIRECTED BY THE ARCHITECT.
19. THE MAXIMUM EFFORT TO OPERATE EXTERIOR DOORS SHALL NOT EXCEED 5 POUNDS, (CBC SECTION 11B-404.2.9).
20. ALL PLYWOOD SHOWN IN DRAWINGS THROUGHOUT SHALL BE FIRE RESISTANT RETARDANT.

⚠ SECTION 907 - FIRE ALARM AND DETECTION SYSTEMS

[F] 907.1 GENERAL. THIS SECTION COVERS THE APPLICATION, INSTALLATION, PERFORMANCE AND MAINTENANCE OF FIRE ALARM SYSTEMS AND THEIR COMPONENTS.

[F] 907.1.1 CONSTRUCTION DOCUMENTS. CONSTRUCTION DOCUMENTS FOR FIRE ALARM SYSTEMS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND EXTENT OF THE WORK PROPOSED AND SHOW IN DETAIL THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE CALIFORNIA FIRE CODE; AND RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS, AS DETERMINED BY THE FIRE CODE OFFICIAL.

[F] 907.1.2 FIRE ALARM SHOP DRAWINGS. SHOP DRAWINGS FOR FIRE ALARM SYSTEMS SHALL BE PREPARED IN ACCORDANCE WITH NFPA 72 AND SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION.
[F] 907.1.3 EQUIPMENT. SYSTEMS AND COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHALL LISTED AND APPROVED IN ACCORDANCE WITH CALIFORNIA CODE REGULATIONS, TITLE 19, DIVISION 1 FOR THE PURPOSE FOR WHICH THEY ARE INSTALLED.

[F] 907.1.4 FIRE-WALLS AND FIRE BARRIER WALLS. FOR THE PURPOSE OF SECTION 907 FIRE WALLS AND FIRE BARRIER WALLS SHALL NOT DEFINE SEPARATE BUILDINGS.
[F] 907.1.5 FIRE ALARM USE. A FIRE ALARM SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN FIRE WARNING OR MASS NOTIFICATION AND WHERE PERMITTED BY NFPA72.

[F] 907.2 WHERE REQUIRED-NEW BUILDINGS AND STRUCTURES. AN APPROVED FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72 SHALL BE PROVIDED IN NEW BUILDINGS AND STRUCTURES IN ACCORDANCE WITH SECTIONS 907.2.1 THROUGH 907.2.24 AND PROVIDE OCCUPANT NOTIFICATION IN ACCORDANCE WITH SECTION 907.5, UNLESS OTHER REQUIREMENTS ARE PROVIDED BY ANOTHER SECTION OF THIS CODE.

NOT FEWER THAN ONE MANUAL FIRE ALARM BOX SHALL BE PROVIDED IN AN APPROVED LOCATION TO INITIATE A FIRE ALARM SIGNAL FOR FIRE ALARM SYSTEMS EMPLOYING AUTOMATIC FIRE DETECTORS OR WATERFLOW DETECTION DEVICES. WHERE OTHER SECTIONS OF THIS CODE ALLOW ELIMINATION OF FIRE ALARM BOXES DUE TO SPRINKLER PROTECTION OR AUTOMATIC FIRE ALARM SYSTEMS, A SINGLE FIRE ALARM BOX SHALL BE INSTALLED AT A LOCATION APPROVED BY ENFORCING AGENCY.

EXCEPTIONS:
1. THE MANUAL FIRE ALARM BOX IS NOT REQUIRED FOR FIRE ALARM CONTROL UNITS DEDICATED TO ELEVATOR RECALL CONTROL AND SUPERVISORY SERVICE AND FIRE SPRINKLER MONITORING.

2. THE MANUAL FIRE ALARM BOX IS NOT REQUIRED FOR GROUP R-2 OCCUPANCIES UNLESS REQUIRED BY THE FIRE CODE OFFICIAL TO PROVIDE A MEANS FOR FIRE WATCH PERSONNEL TO INITIATE AN ALARM DURING SPRINKLER SYSTEM IMPAIRMENT EVENT. WHERE PROVIDED, THE MANUAL FIRE ALARM BOX SHALL NOT BE LOCATED IN AN AREA THAT IS OPEN TO THE PUBLIC.

3. THE MANUAL FIRE ALARM BOX IS NOT REQUIRED TO BE INSTALLED WHEN APPROVED BY THE FIRE CODE OFFICIAL.

[F] 907.2.1 GROUP A. A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE, OR WHERE THE GROUP A OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE. GROUP A OCCUPANCIES NOT SEPARATED FROM ONE ANOTHER IN ACCORDANCE WITH SECTION 707.3.10 SHALL BE CONSIDERED AS A SINGLE OCCUPANCY FOR THE PURPOSES OF APPLYING THIS SECTION. PORTIONS OF GROUP E OCCUPANCIES OCCUPIED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 1,000, SHALL BE PROVIDED WITH A FIRE ALARM SYSTEM AS REQUIRED FOR THE GROUP E OCCUPANCY.

EXCEPTIONS:
1. MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATER FLOW.

2. MANUAL FIRE ALARM BOXES AND THE ASSOCIATED OCCUPANT NOTIFICATION SYSTEM OR EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM ARE NOT REQUIRED FOR GROUP A-5 OUTDOOR BLEACHER-TYPE SEATING HAVING AN OCCUPANT LOAD OF GREATER THAN OR EQUAL TO 300 AND LESS THAN 15,000 OCCUPANTS, PROVIDED THAT ALL OF THE FOLLOWING ARE MET:

2.1 A PUBLIC ADDRESS SYSTEM WITH STANDBY POWER IS PROVIDED.

2.2 ENCLOSED SPACES ATTACHED TO OR WITHIN 5 FEET (1524 mm) OF THE OUTDOOR BLEACHER-TYPE SEATING COMPOSE, IN THE AGGREGATE, A MAXIMUM OF 10 PERCENT OF THE OVERALL AREA OF THE OUTDOOR BLEACHER-TYPE SEATING OR 1,000 SQUARE FEET (92.0 m2), WHICHEVER IS LESS.

2.3 ENCLOSED ACCESSORY SPACES UNDER OR ATTACHED TO THE OUTDOOR BLEACHER-TYPE SEATING SHALL BE SEPARATED FROM THE BLEACHER-TYPE SEATING IN ACCORDANCE WITH SECTION 1030.1.1.1.

2.4 ALL MEANS OF EGRESS FROM THE BLEACHER-TYPE SEATING ARE OPEN TO THE OUTSIDE.

3. MANUAL FIRE ALARMS BOXES AND THE ASSOCIATED OCCUPANT NOTIFICATION SYSTEM OR EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM ARE NOT REQUIRED FOR TEMPORARY GROUP A-5 OUTDOOR BLEACHER-TYPE SEATING, PROVIDED THAT ALL OF THE FOLLOWING ARE MET:

3.1 THERE ARE NO ENCLOSED SPACES UNDER OR ATTACHED TO THE OUTDOOR BLEACHER-TYPE SEATING.

3.2 THE BLEACHER-TYPE SEATING IS ERECTED FOR A PERIOD OF LESS THAN 180 DAYS.

3.3 EVACUATION OF THE BLEACHER-TYPE SEATING IS INCLUDED IN AN APPROVED FIRE SAFETY PLAN.

EVERY GROUP A BUILDING USED FOR EDUCATIONAL PURPOSES SHALL BE PROVIDED A MANUAL OR AUTOMATIC FIRE ALARM SYSTEM. THIS PROVISION SHALL APPLY TO, BUT SHALL NOT NECESSARILY BE LIMITED TO, EVERY COMMUNITY COLLEGE AND UNIVERSITY.

EXCEPTION: PRIVATELY OWNED TRADE OR VOCATIONAL SCHOOLS OR ANY FIRM OR COMPANY WHICH PROVIDES EDUCATIONAL FACILITIES AND INSTRUCTIONS FOR ITS EMPLOYEES.

[F] 907.2.1.1 SYSTEM INITIATION IN GROUP A OCCUPANCIES WITH AN OCCUPANT LOAD OF 1,000 OR MORE. ACTIVATION OF THE FIRE ALARM IN GROUP A OCCUPANCIES WITH AN OCCUPANT LOAD OF 1,000 OR MORE SHALL INITIATE A SIGNAL USING AN EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2. GROUP A OCCUPANCIES WITH AN OCCUPANT LOAD OF 10,000 OR MORE, SEE SECTION 907.2.1.3.

EXCEPTION: WHERE APPROVED, THE PRERECORDED ANNOUNCEMENT IS ALLOWED TO BE MANUALLY DEACTIVATED FOR A PERIOD OF TIME, NOT TO EXCEED 3 MINUTES, FOR THE SOLE PURPOSE OF ALLOWING A LIVE VOICE ANNOUNCEMENT FROM AN APPROVED, CONSTANTLY ATTENDED LOCATION.

[F] 907.2.1.2 EMERGENCY VOICE/ALARM COMMUNICATION CAPTIONS. STADIUMS, ARENAS AND GRANDSTANDS REQUIRED TO CAPTION AUDIBLE PUBLIC ANNOUNCEMENTS SHALL BE IN ACCORDANCE WITH SECTION 907.5.2.2.4.
907.2.1.3 PUBLIC ADDRESS SYSTEMS. PURSUANT TO HEALTH AND SAFETY CODE SECTION 13108.9, FOR ALL BUILDINGS AND STRUCTURES CONSTRUCTED ON OR AFTER JULY 1, 1942, WHICH ARE INTENDED FOR PUBLIC ASSEMBLIES OF 10,000 OR MORE PERSONS A PUBLIC ADDRESS SYSTEM WITH AN EMERGENCY BACKUP POWER SYSTEM SHALL BE REQUIRED.

[F] 907.2.2 GROUP B. A MANUAL FIRE ALARM SYSTEM, WHICH ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5, SHALL BE INSTALLED IN GROUP B OCCUPANCIES WHERE ONE OR THE FOLLOWING CONDITIONS EXISTS:

1. THE COMBINED GROUP B OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE.
2. THE GROUP B OCCUPANT LOAD IS MORE THAT 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.
3. THE FIRE AREA CONTAINS AN AMBULATORY CARE FACILITY.
4. GROUP B OCCUPANCIES CONTAINING EDUCATIONAL FACILITIES, SEE SECTION 907.2.2.3.

EXCEPTION: MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1 AND THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT ZONES UPON SPRINKLER WATER FLOW.

[F] 907.2.2.1 AMBULATORY CARE FACILITIES: FIRE AREAS CONTAINING AMBULATORY CAR FACILITIES SHALL BE PROVIDED WITH AN ELECTRONICALLY SUPERVISED AUTOMATIC SMOKE DETECTION SYSTEM INSTALLED WITHIN THE AMBULATORY CARE FACILITY AND IN PUBLIC USE AREAS OUTSIDE OF TENANT SPACES, INCLUDING PUBLIC CORRIDORS AND ELEVATOR LOBBIES.

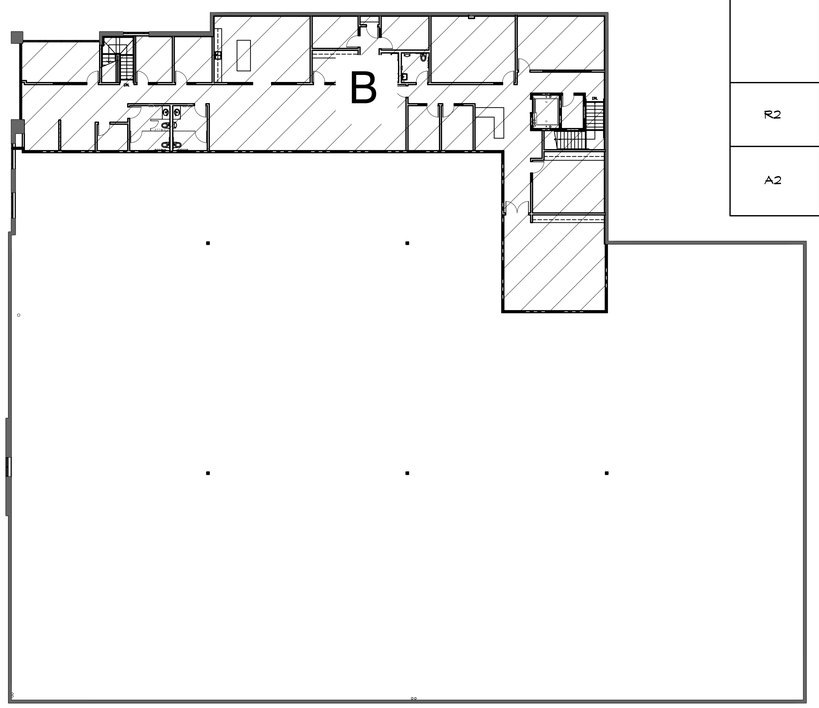
EXCEPTION: BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, PROVIDED THAT THE OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATER FLOW.

[F] 907.2.2.2 LABORATORIES INVOLVING RESEARCH AND DEVELOPMENT OR TESTING. A FIRE ALARM SYSTEM ACTIVATED BY AN AIR SAMPLING-TYPE SMOKE DETECTION SYSTEM OR A RADIANT-ENERGY-SENSING DETECTION SYSTEM SHALL BE INSTALLED THROUGHOUT THE ENTIRE FIRE AREA UTILIZED FOR THE RESEARCH AND DEVELOPMENT OR TESTING OF LITHIUM METAL BATTERIES.

907.2.2.3 GROUP B EDUCATIONAL FACILITIES. EVERY GROUP B BUILDING USED FOR EDUCATIONAL PURPOSES SHALL BE PROVIDED WITH A MANUAL OR AUTOMATIC FIRE ALARM SYSTEM. THIS PROVISION SHALL APPLY TO, BUT NOT NECESSARILY BE LIMITED TO, EVERY COMMUNITY COLLEGE AND UNIVERSITY.

EXCEPTION: PRIVATELY OWNED TRADE OR VOCATIONAL SCHOOLS OR ANY FIRM OR COMPANY WHICH PROVIDED EDUCATIONAL FACILITIES AND INSTRUCTIONS FOR ITS EMPLOYEES.

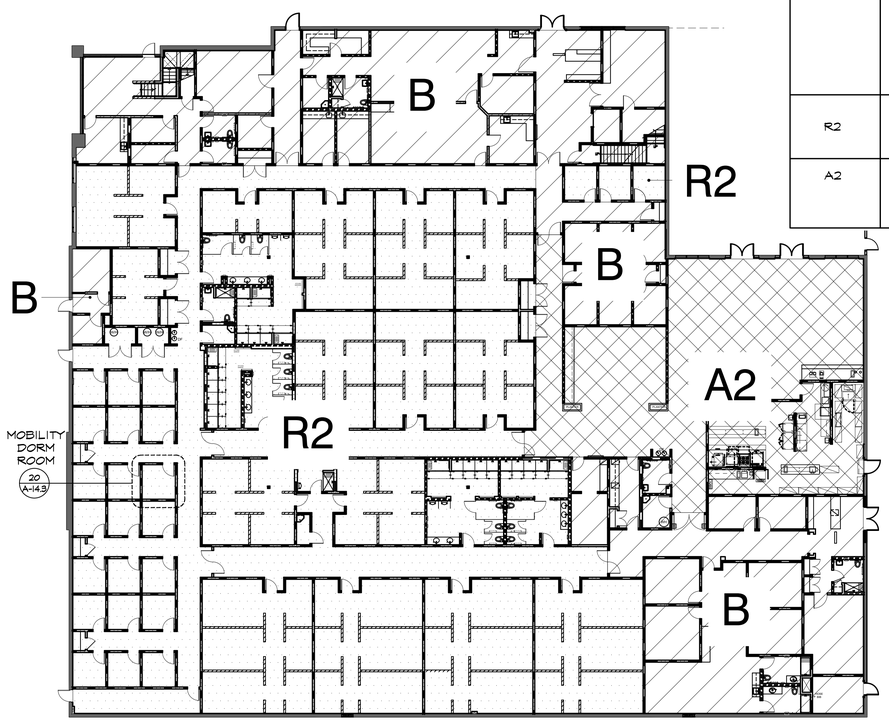
[F] 907.2.3 GROUP E. AN AUTOMATIC FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM MEETING THE REQUIREMENTS OF SECTION 907.5.2.2 AND INSTALLED IN ACCORDANCE WITH SECTION 907.6 SHALL BE INSTALLED IN GROUP E OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR CONTAINING MORE THAN ONE CLASSROOM OR ONE OR MORE ROOMS USED FOR GROUP E OR I-4 CHILD-CARE PURPOSES IN ACCORDANCE WITH THIS SECTION. WHERE AUTOMATIC SPRINKLER SYSTEMS OR SMOKE DETECTORS ARE INSTALLED, SUCH SYSTEMS OR DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. ONE ADDITIONAL MANUAL FIRE ALARM BOX SHALL BE LOCATED AT THE ADMINIS



SECOND FLOOR

GROUP	OCCUPANCY	S.F.
B	OPEN OFFICE PRIVATE OFFICE CONFERENCE CLASSROOM TRAINING LOUNGE CIRCULATION AREA TOTAL AREA:	 6,186.92 S.F.
R2	DORM / SLEEPING AREA	0 S.F.
A2	ASSEMBLY AREA	0 S.F.

NOTE:
REFER TO EX-2, OCC-2 AND XT-2 FOR OCCUPANT LOADS, EXITING AND SIGNAGE INFORMATION.



FIRST FLOOR

GROUP	OCCUPANCY	S.F.
B	LOBBY AREAS ENTRY AREAS OFFICE AREAS RESTROOM CIRCULATION UTILITY TOTAL AREA:	 8,667 S.F.
R2	DORM / SLEEPING AREA	20,079 S.F.
A2	KITCHEN DINING AREA LOUNGE AREA CIRCULATION	4,680.71 S.F.

NOTE:
REFER TO EX-1, OCC-1 AND XT-1 FOR OCCUPANT LOADS, EXITING AND SIGNAGE INFORMATION.

PROPOSED OCCUPANCY DIAGRAM

PROPOSED PROJECT PROGRAMMING AND OPERATIONAL INFORMATION

WEST END NAVIGATION CENTER OPERATIONAL PLAN

ADDRESS: 11109 JASMINE STREET, FONTANA, CA 92337

PROJECT OVERVIEW

THE WEST END NAVIGATION CENTER (WNC) IS AN IMPORTANT STRATEGIC INVESTMENT BY SAN BERNARDINO COUNTY, IN PARTNERSHIP WITH THE CITY OF FONTANA AND OTHER PARTNER CITIES, TO EXPAND REGIONAL SHELTER CAPACITY AND ADDRESS SUBSTANCE USE WITHIN THE UNSHELTERED POPULATION. THE FACILITY WILL COMBINE THREE COMPLEMENTARY SERVICES IN A SINGLE 42,000-SQUARE-FOOT BUILDING: A NAVIGATION CENTER FOR SAFE SHELTER AND SERVICES COORDINATION, RECUPERATIVE CARE FOR POST-ACUTE MEDICAL RECOVERY, AND A SOBERING CENTER FOR SAFE DETOXIFICATION, WITH A MAXIMUM CENSUS OF 200 INDIVIDUALS. THE CENTER WILL OPERATE 24/7 AND FOLLOW A HOUSING FIRST MODEL, EMPHASIZING LOW-BARRIER ACCESS, INTEGRATED CARE, AND RAPID TRANSITIONS TO PERMANENT HOUSING. THE FACILITY WILL SERVE AS A HUB FOR COUNTY AND COMMUNITY-BASED SERVICES AND SIGNIFICANTLY EXPAND THE COUNTY'S ABILITY TO MEET THE IMMEDIATE AND LONG-TERM NEEDS OF UNSHELTERED RESIDENTS, PARTICULARLY THOSE WHOSE HOMELESSNESS IS COMPOUNDED BY SUBSTANCE USE DISORDERS.

- OPERATIONAL DETAILS

THE WEST END NAVIGATION CENTER BRINGS TOGETHER THE FOLLOWING SYNERGISTIC PROGRAMS TO CREATE A SEAMLESS CONTINUUM OF CARE – FROM EPISODIC INTOXICATION SUPPORT TO LONGER-TERM HEALTH AND HOUSING STABILITY FOR THE UNSHELTERED INDIVIDUALS AND FAMILIES IN SAN BERNARDINO COUNTY.

- SOBERING CENTER (8 SLOTS)

THE SOBERING CENTER WILL PROVIDE SHORT-TERM (4-24 HOURS), NON-MEDICAL CRISIS INTERVENTION SERVICES FOR INDIVIDUALS EXPERIENCING ACUTE ALCOHOL OR DRUG INTOXICATION. KEY SERVICES INCLUDE INTAKE ASSESSMENTS, VITAL SIGNS MONITORING, HYDRATION AND NUTRITION SUPPORT, SAFETY STABILIZATION, AND REFERRALS TO HIGHER LEVELS OF CARE. SOBERING CENTERS HAVE PROVEN EFFECTIVE NATIONWIDE IN REDUCING COSTLY EMERGENCY DEPARTMENT VISITS, DECREASING ARRESTS FOR PUBLIC INTOXICATIONS, AND CREATING OPPORTUNITIES FOR ENGAGEMENT WITH TREATMENT SERVICES DURING A CRUCIAL WINDOW WHEN INDIVIDUALS MAY BE MOST RECEPTIVE TO INTERVENTION. TO MAXIMIZE THESE OPPORTUNITIES, FIVE PERCENT OF THE SHELTER AND RECUPERATIVE CARE BEDS WILL BE RESERVED SPECIFICALLY FOR INDIVIDUALS TRANSITIONING OUT OF THE SOBERING CENTER, PROVIDING IMMEDIATE HOUSING STABILITY AND FACILITATING DIRECT PATHWAYS TO ONGOING TREATMENT AND MEDICAL CARE OUTSIDE OF A HOSPITAL ENVIRONMENT. A MAJORITY OF REFERRALS TO THE SBSC WILL COME FROM LAW ENFORCEMENT. NON-JUSTICE-INVOLVED INDIVIDUALS WILL BE REFERRED BY COUNTY STREET OUTREACH TEAMS AND SAN BERNARDINO'S DEPARTMENT OF BEHAVIORAL HEALTH (DBH) COMMUNITY RESPONSE TEAMS (CRTS).

- RECUPERATIVE CARE (100 BEDS)

THE RECUPERATIVE CARE CENTER WILL PROVIDE UNSHELTERED INDIVIDUALS WITH A SAFE ENVIRONMENT TO RECOVER FROM ILLNESS OR INJURY AFTER A HOSPITAL STAY. CLIENTS MAY BE ELIGIBLE FOR STAYS OF UP TO 90 DAYS. KEY SERVICES INCLUDE MEDICAL OVERSIGHT, MEDICATION MANAGEMENT, CONNECTIONS TO MEDICAL AND BEHAVIORAL HEALTH RESOURCES, AND STABLE HOUSING. HOSPITALS AND COUNTY STREET OUTREACH TEAMS WILL BE THE PRIMARY REFERRAL SOURCES.

FOR ELIGIBLE INDIVIDUALS, 21 NON-CONGREGATE BEDS ARE AVAILABLE FOR STAYS UP TO 6 MONTHS.

- NAVIGATION CENTER (100 BEDS)

THE NAVIGATION CENTER WILL COMPRISE OF TWO COMPONENTS: AN 88-BED GENERAL POPULATION SECTION AND A SEPARATE FAMILY SECTION ACCOMMODATING UP TO 4 FAMILIES. THE FAMILY SECTION ASSUMES AN AVERAGE CENSUS OF 12 INDIVIDUALS (MAXIMUM POTENTIAL CAPACITY IS 18 BEDS). CASE MANAGERS AND PEER NAVIGATORS WILL SUPPORT INDIVIDUALS IN ACCESSING EMPLOYMENT OPPORTUNITIES, ELIGIBLE PROGRAMS AND RESOURCES TO ENABLE STABLE, LONG-TERM HEALTH AND HOUSING. CLIENTS ARE ELIGIBLE FOR A 90-DAY STAY, AND BASED ON NEED, MAY BE APPROVED FOR AN EXTENSION FOR A TOTAL STAY OF 6 MONTHS. THE SAN BERNARDINO COUNTY COORDINATED ENTRY SYSTEM (CES) WILL BE THE PRIMARY REFERRAL SOURCE.

- AMENITIES

THE WESTEND REGIONAL NAVIGATION CENTER HAS BEEN DESIGNED WITH A CLEAR FOCUS ON PROVIDING DIGNITY AND SAFETY FOR CLIENTS AND ENHANCING STAFF'S CAPACITY TO SUPPORT CLIENTS' PROGRESS. THE THREE PROGRAMS, THE SOBERING CENTER, THE NAVIGATION BEDS, AND THE RECUPERATIVE CARE BEDS CONVERGE AROUND A CENTRAL @PLAZA@ WHERE A ~6-SEAT DINING ROOM, LOUNGE, AND COMPUTER LAB PROVIDE A SOCIAL HUB WHERE CLIENTS CAN MINGLE AND SOCIALIZE OR SEARCH FOR A NEW EMPLOYMENT OPPORTUNITY.

- ADJACENT TO THE DINING ROOM, A 3,000-SQUARE-FOOT TRUCK WELL WILL BE CONVERTED INTO A SECURE OUTDOOR RECREATIONAL AREA. A DECK WITH OUTDOOR FURNITURE, A HALF-COURT BASKETBALL SPACE, EXERCISE EQUIPMENT, A PLAYGROUND, AND A GARDEN WILL ALLOW CLIENTS TO ENJOY THE SUN. THE FOUR LARGE LIFT GATES WILL BE REPLACED WITH GLASS ENCLOSURES TO MAXIMIZE SUNLIGHT INTO THE DINING/LOUNGE AREA. THE BUILDING ALSO HAS SKYLIGHTS THROUGHOUT THE FACILITY, SUPPORTING THE DINING COMPLEX WILL BE A 1,200 SF COMMERCIAL KITCHEN THAT WILL ALSO BE USED TO TRAIN INTERESTED CLIENTS IN CULINARY ARTS.
- AN ESSENTIAL PART OF @THE PLAZA@ WILL BE THE CLIENT RESOURCE CENTER (CRC), WHICH WILL PROVIDE HYGIENE KITS AND OTHER ESSENTIALS. THE CLIENTS ARE ENCOURAGED TO MAKE APPOINTMENTS FOR CASE MANAGEMENT, HOUSING NAVIGATION, AND OTHER SERVICES AT THE CRC AND TO TAKE ACTIVE STEPS TOWARD THEIR RECOVERY. CLIENTS WILL ALSO PICK UP AND DROP OFF THEIR LAUNDRY HERE. A LARGE LAUNDRY FACILITY WITH COMMERCIAL EQUIPMENT WILL BE OPERATED BY STAFF.
- ALSO LOCATED ON @THE PLAZA@ IS A SECURITY STATION WITH A CLEAR LINE OF SIGHT TO ALL ACTIVITY, PREVENTING INCIDENTS AND ALLOWING QUICK DE-ESCALATION IF THEY DO OCCUR. SECURITY WILL ALSO MONITOR CCTV FROM HERE.
- THERE ARE TWO INTAKE ROOMS, SIX HUDDLE ROOMS, AND A MEDICAL COORDINATION COMPLEX ON THE FIRST FLOOR WHERE CLIENTS CAN MEET WITH STAFF. TAKING AN ELEVATOR TO THE SECOND FLOOR, SEVERAL MEETING ROOMS, A CONFERENCE ROOM, AN ACTIVITY/GROUP ROOM, AND A LARGE MULTI-PURPOSE ROOM PROVIDE A RANGE OF OPTIONS FOR VARIOUS MEETINGS, SERVICE PROVISION, AND FUN ACTIVITIES. A STAFF LOUNGE AND NUMEROUS OFFICES ARE ALSO LOCATED ON THE SECOND FLOOR TO PROVIDE FOR STAFF NEEDS.
- THE BACK PARKING LOT WILL BE SECURED WITH A GATED FENCE. THIS WILL ALSO SERVE AS THE ENTRANCE TO THE NAVIGATION CENTER. THERE WILL BE NO WALK-UPS TO THE FACILITY. WITHIN THE SECURED AREA WILL BE A COVERED ENTRY PATIO WITH SEATING, AND A COVERED LOCKER AREA WITH INDIVIDUAL LOCKERS FOR CLIENTS' BELONGINGS. A SEPARATE SMALL LOCKER IS PROVIDED INDOORS FOR ESSENTIAL ITEMS SUCH AS MEDICINE.
- CLIENTS WITH PETS WILL APPRECIATE THE DOG RUN AND THE KENNELS PROVIDED. THERE IS ALSO A PET WASHING STATION NEXT TO THE KENNELS. A SEPARATE SMOKING AREA WILL ALSO BE PROVIDED.

- STAFFING PLAN

THE FACILITY WILL BE STAFFED 24/7/365 BY A TEAM COMPRISING THE DISCIPLINES IDENTIFIED BELOW. A DETAILED STAFFING PLAN IS YET TO BE DETERMINED.

- ONE REGISTERED NURSE (RN) ON-SITE AT ALL TIMES FOR SOBERING AND RECUPERATIVE CARE OVERSIGHT.
- LICENSED VOCATIONAL NURSES (LVNS), CERTIFIED NURSING ASSISTANTS (CNAS), AND EMERGENCY MEDICAL TECHNICIANS (EMTS) FOR MEDICAL SUPPORT.
- CASE MANAGERS AND PEER NAVIGATORS FOR HOUSING AND SERVICE COORDINATION.
- SECURITY PERSONNEL TRAINED IN DE-ESCALATION AND TRAUMA-INFORMED CARE.
- SITE STAFF TO MAINTAIN CLEANLINESS AND SUPPORT MEAL PREPARATION.

ALL STAFF WILL UNDERGO BACKGROUND CHECKS, CPR/FIRST AID CERTIFICATION, AND ONGOING TRAINING IN HARM REDUCTION AND CULTURAL COMPETENCY.

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STATE OF CALIFORNIA

CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

COVER SHEET
OPERATIONAL LETTER STATEMENT
&
OCCUPANCY DIAGRAM

Revisions	By	Date
2 FC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	NONE

Sheet CS-2

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

ZEV. [BSC-CG, DSA-SS] Any vehicle certified to zero-emission standards.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitors, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 20% of the peak daily visitors, with a minimum of one two-bike capacity rack.

Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. Acceptable bicycle parking facility for Section 5.106.4.1.2.1, 5.106.4.1.2.2 and 5.106.4.1.23 shall be conveniently located near the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3.Lockable, permanently anchored bicycle lockers.

Calculations for bicycle parking requirements shall be rounded up to the nearest whole number.

5.106.4.1.2.1
For new buildings with tenant spaces, provide secure bicycle parking for 10 percent of the tenant-occupants, with a minimum of one bicycle parking facility.

5.106.4.1.2.2
For additions or alternations, provide secure bicycle parking for 10 percent of the tenant-occupants being added, with a minimum of one bicycle parking facility.

5.106.4.1.2.3
For new shell buildings in phased projects, provide secure bicycle parking for 10 percent of the anticipated tenant-occupants, with a minimum of one bicycle parking facility.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code*.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Areas of parking facilities served by parking lifts, including but not limited to, automated mechanical-access open parking garages as defined in the California Building Code; or parking facilities otherwise incapable of supporting electric vehicle charging.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1 EV Capable Spaces and EVCS

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	OTHER THAN OFFICE AND RETAIL NUMBER OF REQUIRED ECVS[1,2,3]	OFFICE AND RETAIL NUMBER OF REQUIRED ECVS[1,2,3]
1-9	0	0	0
10-25	4	2	3
26-50	8	4	6
51-75	13	6	8
76-100	17	8	13
101-150	25	12	19
151-200	35	18	26
201 AND OVER	20 percent of actual parking spaces[1]	50 percent of EV capable spaces[1]	75 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required capable spaces by the same number.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.3. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

5.106.5.3.2.1 Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations:
1. For 20-ampere receptacles, NEMA 6-20R
2. For 30-ampere receptacles, NEMA 14-30R
3. For 50-ampere receptacles, NEMA 14-50R

5.106.5.3.2.2 EV charger connectors. EV chargers shall be equipped with SAE J1772 with a maximum output 240 Volts AC or SAE J3400 connectors.When using level 2 SAE J3400 SAE connectors, supplied by a 480 V 3-phase service, at least 20 percent of the EV charger connectors shall be SAE J1772 with a maximum output 240 Volts AC.

5.106.5.3.2.3 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.4 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.2.4.1 Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6 Power Allocation Method

TOTAL NUMBER OF ACTUAL PARKING SPACES	MINIMUM TOTAL kVA @ 6.6 kVA	OTHER THAN OFFICE AND RETAIL TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE[2,4] LOW POWER LEVEL 2, LEVEL 2[1, 2] OR DCFC	OFFICE AND RETAIL TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE[2,4] LOW POWER LEVEL 2, LEVEL 2[1, 2] OR DCFC
1-9	0	0	0
10-25	26.4	26.4	26.4
26-50	52.8	52.8	52.8
51-75	85.8	85.8	85.8
76-100	112.2	112.2	112.2
101-150	165	165	165
151-200	231	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.
5. For Office and Retail buildings the maximum allowed kVA to be utilized for EV capable is 25 percent.

5.106.5.3.6.1 Receptacle configurations. 208/240V EV charging receptacles shall comply with one of the following configurations:
1. For 20-ampere receptacles, NEMA 6-20R.
2. For 30-ampere receptacles, NEMA 14-30R.
3. For 50-ampere receptacles, NEMA 14-50R.

5.106.5.3.6.2 EV Charger connectors. EV chargers shall be equipped with SAE J1772 with a maximum output 240 Volts AC or SAE J3400 connectors. When using level 2 SAE J3400 connectors, supplied by a 480 V 3-phase service, at least 20 percent of the EV charger connectors shall be SAE J1772 with a maximum output 240 Volts AC.

5.106.5.3.6.3 Raceway capacity requirements. To allow for future upgrades to the electrical conductors serving low power Level 2 charging receptacles, the listed raceway serving such receptacles shall be sized to allow the installation of a dedicated 208/240-volt 40-ampere branch circuit. Where no raceway is used, the conductors shall be sized to accommodate a 208/240-volt 40-ampere receptacle.

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6. Install EVCS at all existing EV capable spaces, utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered, prior to adding any new EV capable spaces. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSC-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.
2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

CAL GREEN BUILDING STANDARDS

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2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

TABLE 5.106.5.6.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CAPABLE SPACES**	**NUMBER OF REQUIRED EVCS[2]**
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3	
NUMBER OF PARKING SPACES IN A PARKING FACILITY	**MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS**
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS [1,2]					
ALLOWABLE RATING	**LIGHTING ZONE LZ0**	**LIGHTING ZONE LZ1**	**LIGHTING ZONE LZ2**	**LIGHTING ZONE LZ3**	**LIGHTING ZONE LZ4**
MAXIMUM ALLOWABLE BACKLIGHT RATING [3]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [3]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [3] (G)					
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

SPECIAL LANDSCAPE AREA (SLA). [DSA-SS] An area of the landscape dedicated solely to edible plants, planting areas used for educational purposes, recreational areas, areas irrigated with recycled water, water features using recycled water, and where turf provides a playing surface or gathering space.

SUBMETER. [HCD 1) A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.
5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, commercial pre-rinse spray valves shall meet the requirements in the California Plumbing Code, Section 420.3.

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazarcous wood waste, and food soiled paper waste that is mixed in with food waste.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

DISCLAIMER:*THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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PROJECT

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CG-2

AIA California 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	kg CO_2e/MT
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2, 3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500~3499 psi	489	kg CO_2e/m^3
3500~4499 psi	566	kg CO_2e/m^3
4500~5499 psi	661	kg CO_2e/m^3
5500~6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500~3499 psi	956	kg CO_2e/m^3
3500~4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_x < GWP_{allowed}$
where
$GWP_x = \Sigma\ (GWP_{mix})(v_{mix})$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_{mix})$
and
$_{mix}$ = each concrete mix installed in the project
GWP_x = the GWP for concrete mix $_x$ per concrete mix EPD, in kg CO2e/m3
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
v_{mix} = the volume of concrete mix $_x$ installed in the project, in m3

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of Design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.

Informational Notes:

1. . Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (**BOD). [N]** A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32º Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]
Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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CONSULTANT

PROJECT

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11109 JASMINE STREET
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FOR

FONTANA CALIFORNIA

TITLE

CAL GREEN BUILDING STANDARDS

Revisions	By	Date
1 PC CORR 1/BID ISSUE	MFM	4/29/26
2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	NONE

Sheet

CG-3

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 4

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY
☒	☐	ARCH, GC, O

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS:	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

Y	N/A	RESPON. PARTY
☒	☐	ARCH, ENG, GC, O

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

Y	N/A	RESPON. PARTY
☒	☐	ARCH, GC, O

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

Y	N/A	RESPON. PARTY
☒	☐	ARCH, ENG, GC, O, I

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

Y	N/A	RESPON. PARTY
☒	☐	ARCH, ENG, GC, O

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance. Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

Y	N/A	RESPON. PARTY
☒	☐	ARCH, ENG, GC, O

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

Y	N/A	RESPON. PARTY
☒	☐	ARCH, GC

5.504.5 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

Y	N/A	RESPON. PARTY
☒	☐	O

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

Y	N/A	RESPON. PARTY
☒	☐	ARCH, ENG, GC, O

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

Y	N/A	RESPON. PARTY
☒	☐	ARCH, ENG

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

Y	N/A	RESPON. PARTY
☐	☒	

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

Y	N/A	RESPON. PARTY
☐	☒	

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
[DSA-SS] Classrooms and other similar rooms that are used for group instruction shall be equipped with a carbon dioxide monitor or sensor.

[BSC-CG] Newly constructed projects and qualifying additions and alterations (per scope in Section 301.3) for University of California, California State University and private school classrooms, lecture and post-secondary classrooms shall be equipped with a carbon dioxide monitor or sensor.

[DSA-SS, BSC-CG] The carbon dioxide monitor or sensor shall meet the following requirements:
1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceed 1,100ppm.
4. The monitor or EMCS devices used to measure carbon dioxide levels shall maintain a record of previous data that includes at least the maximum carbon dioxide concentration measured.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

Y	N/A	RESPON. PARTY
☐	☒	

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

Y	N/A	RESPON. PARTY
☒	☐	ENG, GC

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

Y	N/A	RESPON. PARTY
☐	☒	

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

Y	N/A	RESPON. PARTY

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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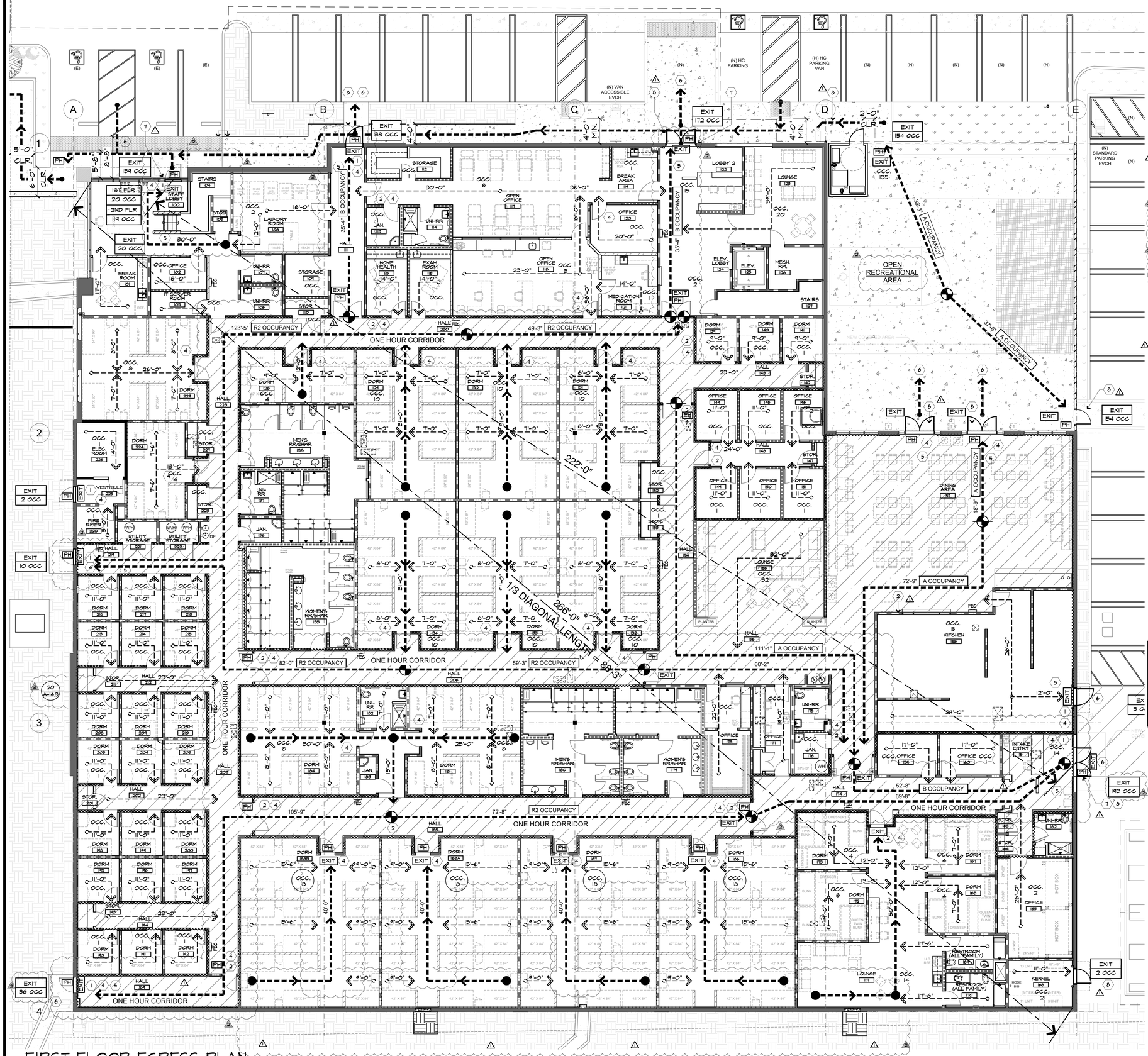
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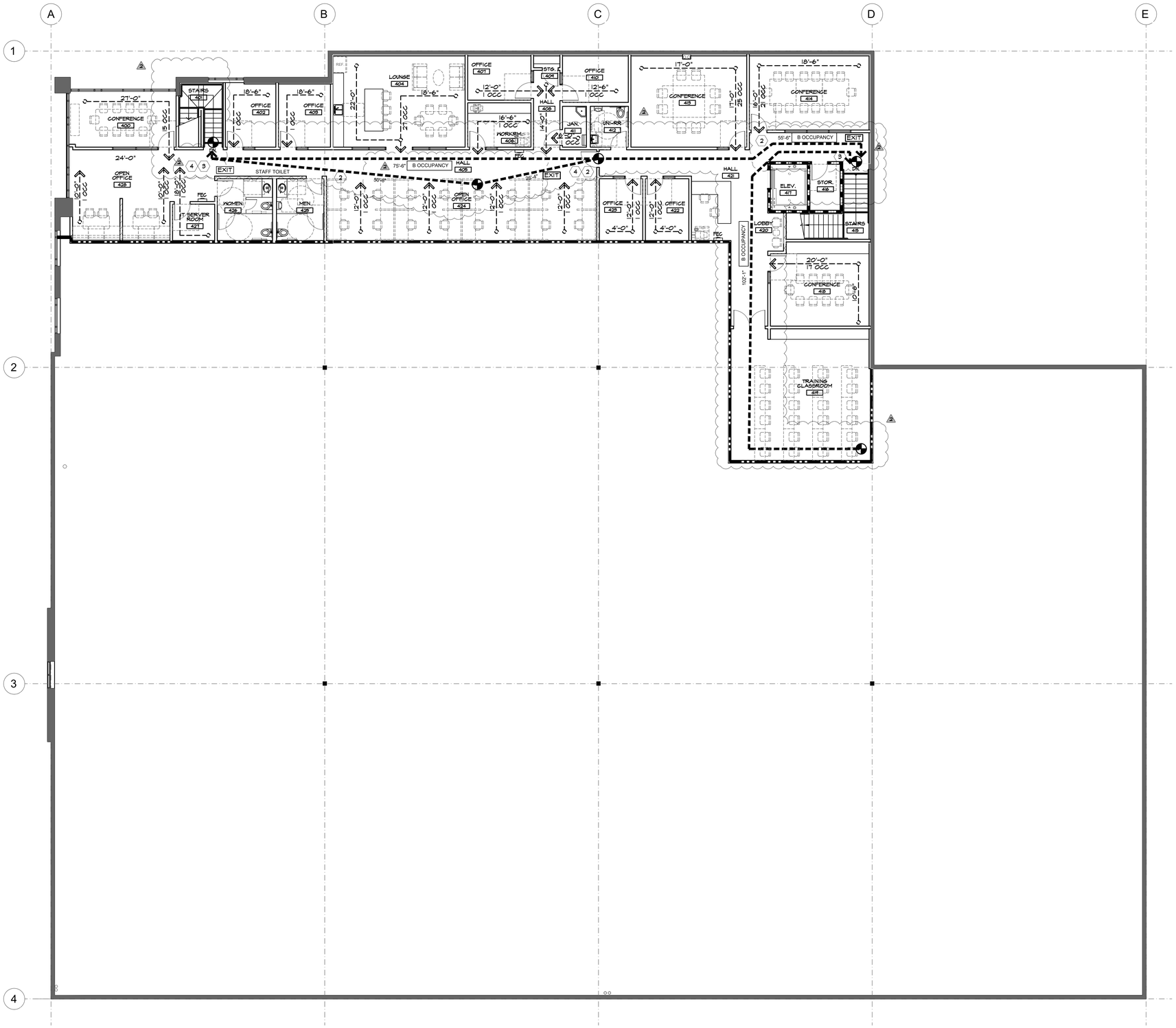
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2 PC CORR 2 / ADD 2	DAE	6/12/26

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Date	2/13/26
Project No.	25011
Scale	NONE

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(N) HC PARKING
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SECOND FLOOR EGRESS PLAN

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

EGRESS PLAN GENERAL NOTES

1. REFER TO SITE PLAN SHEET SP-1.1 FOR EXTERIOR ELEMENTS, WALKWAYS , ETC.
2. REFER TO ACC-1, ACC-2, ACC-3 AND GENERAL NOTES & EXIT AND OCCUPANT LOADS, SHEET CS-1 FOR ADDITIONAL INFORMATION REGARDING OCCUPANCY, SIGNAGE, CLEARANCES, DEFINITIONS, ETC., NOT SHOWN HERE.
3. PROVIDE TACTILE EXIT SIGNS AT LOCATIONS AS SHOWN ON PLAN PER CBC SECTION 1013.4 AND SECTION 11B-703. ALL SIGNS TO MATCH BUILDING STANDARD SIGNAGE.
4. PER CBC TABLE 1017.2, EXIT ACCESS TRAVEL DISTANCE SHALL BE MEASURED FROM THE MOST REMOTE POINT WITHIN A STORY ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL EGRESS TRAVEL TO THE ENTRANCE OF AN EXIT. THE EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 250 FEET FOR GROUP R-2 & B OCCUPANCY WITHIN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1.
5. THE MINIMUM NUMBER OF EXITS REQUIRED PER CBC TABLE 1006.3.1 FOR GROUP R-2 & B OCCUPANCY SHALL BE AS FOLLOWS:

1-500 OCCUPANTS (PERSONS PER STORY)	2 EXITS (PER STORY)
501-1,000	3
MORE THAN 1,000	4

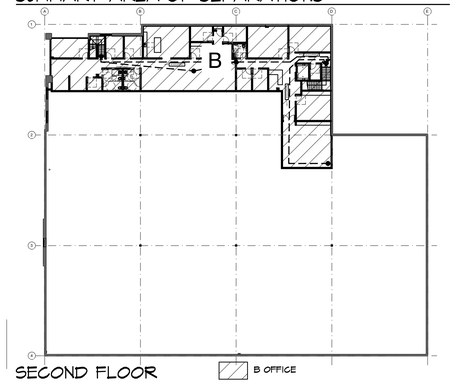
6. FIRE EXTINGUISHER TO BE RECESSED IN LOCKABLE/TAMPER PROOF CABINET, LOCATE PER FIRE MARSHAL. SEE DETAIL 22/A-10.2.
7. REFER TO OCC-1 AND OCC-2 FOR OCCUPANT LOADS FOR EACH AREA.

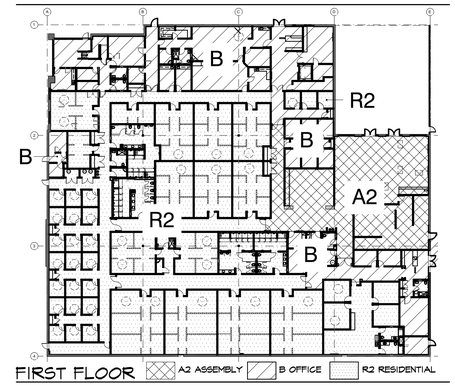
EGRESS PLAN KEY NOTES

1. PROVIDE TACTILE EXIT SIGN. REFER TO SHEET "XT-" FOR SPECIFICATIONS.
2. PROVIDE TACTILE EXIT SIGN. REFER TO SHEET "XT-" FOR SPECIFICATIONS.
3. PROVIDE TACTILE EXIT SIGN. REFER TO SHEET "XT-" FOR SPECIFICATIONS.
4. DEDICATED EXIT DOOR, SEE SHEET A-2.1 AND A-2.2 FOR ILLUMINATED SIGNAGE LOCATIONS. REFER TO SHEET A-10 FOR DOOR OR GATE HARDWARE AND OPERATING DEVICES.
5. ACCESSIBLE PATH OF TRAVEL TO EXTERIOR DOOR.
6. ACCESSIBLE PATH OF TRAVEL FROM EXTERIOR DOOR TO CLEAR RIGHT OF WAY, SEE SHEET SP-1.1.

NOTE- REFER TO SHEET OCC-2 FOR ADDITIONAL INFORMATION:
1. (CP)=DISTANCE TRAVELED BEFORE CHOICE OF (2) EXITS (EA)=MAXIMUM DISTANCE BEFORE REACHING AN EXIT
2. EGREE COMMON PATH OF TRAVEL PER CBC 1006.2.1, 1004.2 AND TABLE 1006.2.1.
3. EGRESS FOR OUTSIDE AREA PER CBC 1004.7.
4. REFER TO SHEET "XT-" FOR TYPICAL SIGNAGE INCLUDING TACTILE EXIT SIGNAGE, EXIT ROUTE, ROOMS, ETC.

SUMMARY AREA OF SEPARATIONS





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TITLE

EGRESS PLAN

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
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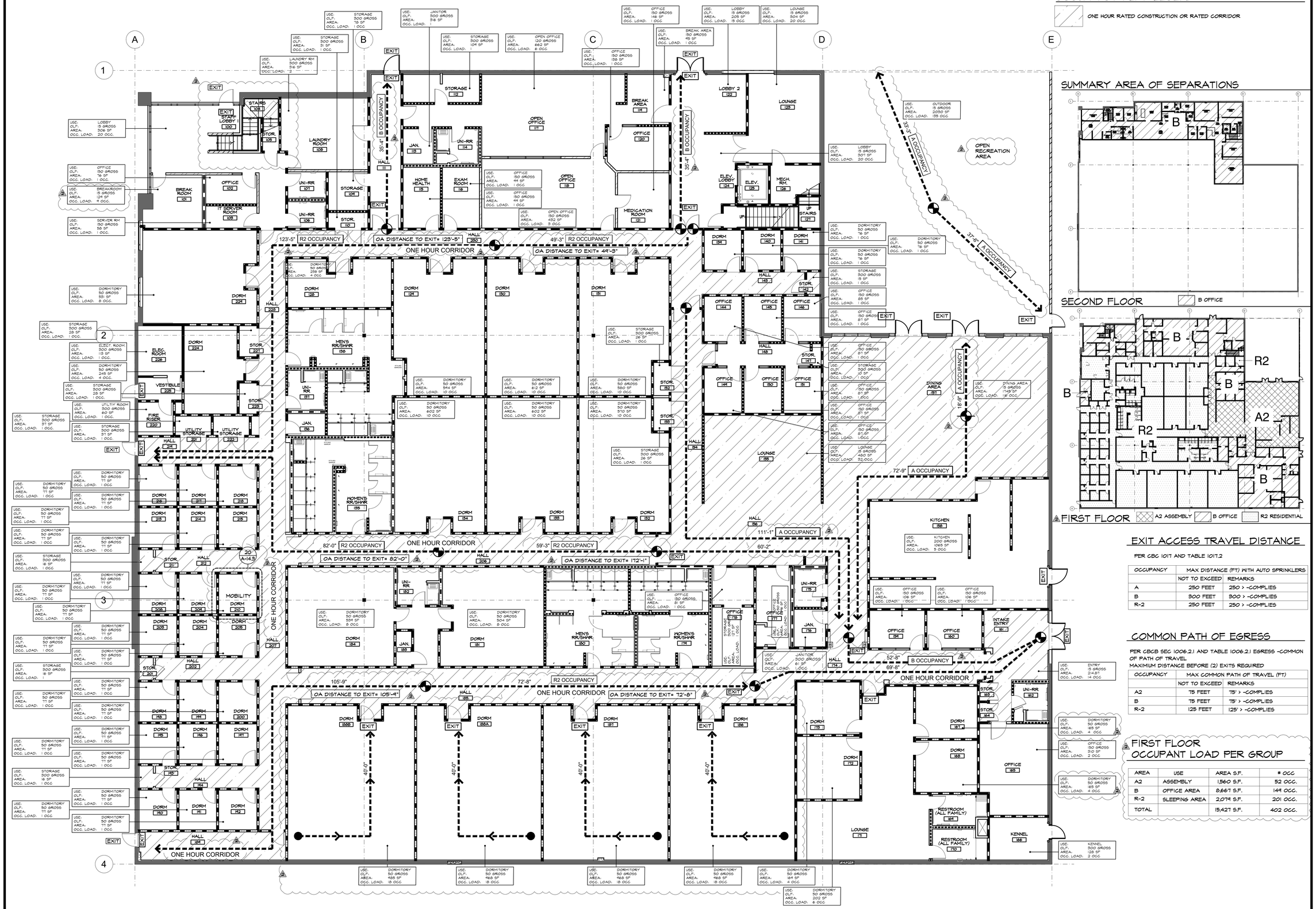
EX-2

OCCUPANCY PLAN GENERAL NOTES

1. REFER TO EX-1 FOR EGRESS PATH OF TRAVEL NOT SHOWN THIS SHEET.
2. SEE EX-1 FOR EGRESS PATH OF TRAVEL AT FIRST FLOOR.
3. SEE XT-1 FOR SIGNAGE.

OCCUPANCY PLAN LEGEND

ONE HOUR RATED CONSTRUCTION OR RATED CORRIDOR



SUMMARY AREA OF SEPARATIONS

SECOND FLOOR — B OFFICE

FIRST FLOOR — A2 ASSEMBLY, B OFFICE, R2 RESIDENTIAL

EXIT ACCESS TRAVEL DISTANCE

PER CBC 1017 AND TABLE 1017.2

OCCUPANCY	MAX DISTANCE (FT) WITH AUTO SPRINKLERS	
	NOT TO EXCEED	REMARKS
A	250 FEET	250 > -COMPLIES
B	300 FEET	300 > -COMPLIES
R-2	250 FEET	250 > -COMPLIES

COMMON PATH OF EGRESS

PER CBCB SEC 1006.2.1 AND TABLE 1006.2.1 EGRESS -COMMON OF PATH OF TRAVEL
MAXIMUM DISTANCE BEFORE (2) EXITS REQUIRED

OCCUPANCY	MAX COMMON PATH OF TRAVEL (FT)	
	NOT TO EXCEED	REMARKS
A2	75 FEET	75' > -COMPLIES
B	75 FEET	75' > -COMPLIES
R-2	125 FEET	125' > -COMPLIES

FIRST FLOOR OCCUPANT LOAD PER GROUP

AREA	USE	AREA S.F.	# OCC
A2	ASSEMBLY	1,560 S.F.	52 OCC.
B	OFFICE AREA	8,867 S.F.	149 OCC.
R-2	SLEEPING AREA	2,074 S.F.	201 OCC.
TOTAL		15,421 S.F.	402 OCC.

FIRST FLOOR OCCUPANCY PLAN

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

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FOR

FONTANA CALIFORNIA

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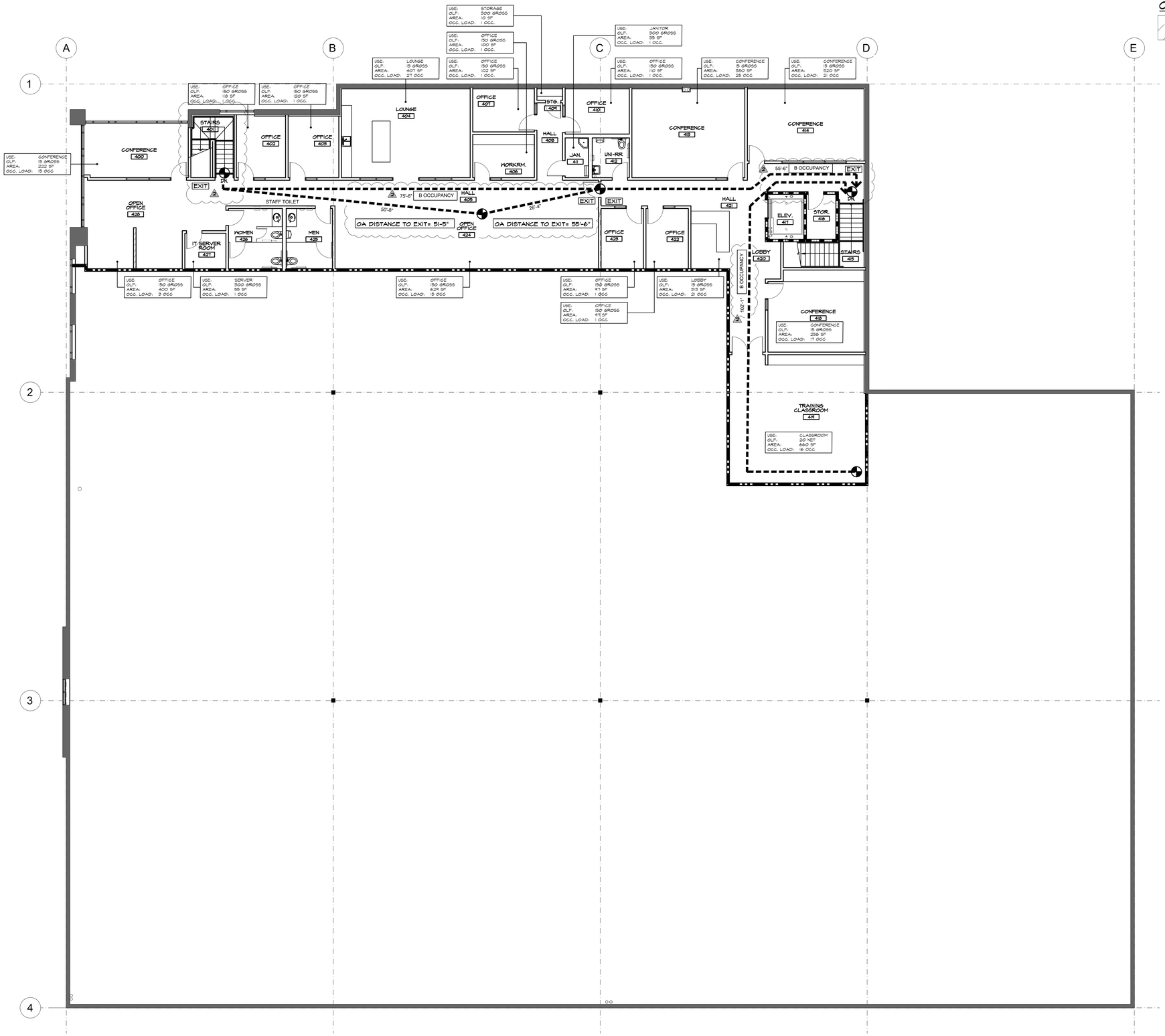
OCCUPANCY PLAN

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2 PC CORR 2 / ADD 2	MFM	6/12/26

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Sheet

OCC-1



SECOND FLOOR OCCUPANCY PLAN

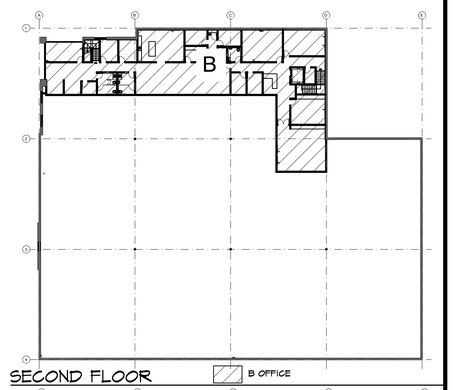
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OCCUPANCY PLAN GENERAL NOTES

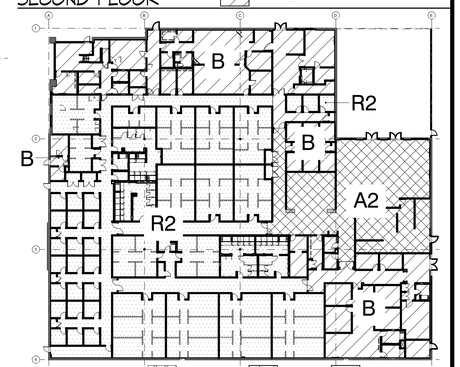
1. REFER TO EX-2 FOR EGRESS PATH OF TRAVEL THIS AREA.
2. SEE EX-1 FOR EGRESS PATH OF TRAVEL AT FIRST FLOOR.
3. SEE XT-2 FOR SIGNAGE.

OCCUPANCY PLAN LEGEND

ONE HOUR RATED CONSTRUCTION OR RATED CORRIDOR



SECOND FLOOR — B OFFICE



FIRST FLOOR — A2 ASSEMBLY | B OFFICE | R2 RESIDENTIAL

EXIT ACCESS TRAVEL DISTANCE

PER CBC 1017 AND TABLE 1017.2

OCCUPANCY	MAX DISTANCE (FT) WITH AUTO SPRINKLERS	
	NOT TO EXCEED	REMARKS
A	250 FEET	250 > -COMPLIES
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COMMON PATH OF EGRESS

PER CBCB SEC 1006.2.1 AND TABLE 1006.2.1 EGRESS -COMMON OF PATH OF TRAVEL
MAXIMUM DISTANCE BEFORE (2) EXITS REQUIRED

OCCUPANCY	MAX COMMON PATH OF TRAVEL (FT)	
	NOT TO EXCEED	REMARKS
A	75 FEET	75' > -COMPLIES
B	75 FEET	75' > -COMPLIES
R-2	125 FEET	125' > -COMPLIES

2 SECOND FLOOR OCCUPANT LOAD PER GROUP

AREA	USE	AREA S.F.	# OCC
A	ASSEMBLY	0 S.F.	NA
B	OFFICE AREA	6,187 S.F.	170 OCC.
R-2	SLEEPING AREA	0 S.F.	NA
TOTAL		6,187 S.F.	170 OCC.

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OCCUPANCY PLAN

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Project No.	25011
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Sheet 1

OCC-2

SIGN PLAN GENERAL NOTES

1. PROVIDE TACTILE EXIT SIGNS AT LOCATIONS AS SHOWN ON PLAN PER CBC SECTION 1013.4 AND SECTION 11B-703. ALL SIGNS TO MATCH BUILDING STANDARD SIGNAGE.
2. PROVIDE SIGNAGE PER CBC REQUIREMENTS FOR PERMANENT ROOMS AND SPACES, ACCESSIBLE ROOMS INCLUDING AND NOT LIMITED TO: BATHROOMS, ACCESSIBLE ELEMENTS, ACCESSIBLE ENTRANCES, ACCESSIBLE PARKING STALLS, ACCESSIBLE PATH OF TRAVEL, AREAS OF REFUGE, ELEVATORS AND FLOOR LEVELS, ASSEMBLY AREAS (LISTENING DEVICES AND OCCUPANT LOAD), AREAS OF HAZARDOUS MATERIALS, EXITS, EXIT ROUTES AND IDENTIFICATION OF NEAREST OPTIONS.
3. REFER TO SHEET EX-1 FOR EGRESS PATH OF TRAVEL NOT SHOWN ON THIS SHEET.
4. REFER TO SHEET OCC-1 FOR OCCUPANT LOADS NOT SHOWN ON THIS SHEET.

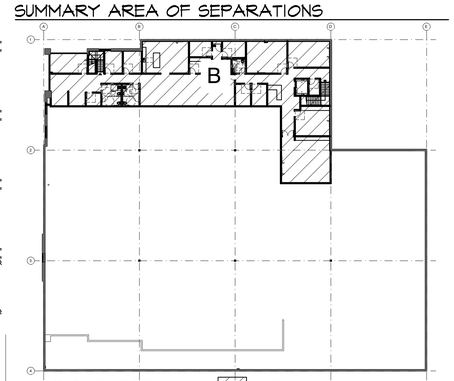
SIGN PLAN LEGEND

PH DENOTES "PANIC HARDWARE" AT THIS DOOR(S)

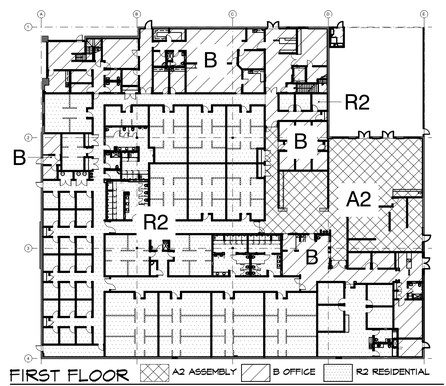
SIGN PLAN KEY NOTES

1. PROVIDE TACTILE EXIT SIGN: "EXIT", PER CBC SECTION 1013.4 SEE DETAIL 18A/SHEET A-10.2. TACTILE SIGNS SHALL COMPLY WITH CBC SECT. 11B-703.
2. PROVIDE TACTILE EXIT SIGN: "EXIT ROUTE", PER CBC SECTION 1013.4 SEE DETAIL 18B/A-10.2. TACTILE SIGNS SHALL COMPLY WITH CBC SECT. 11B-703.
3. PROVIDE TACTILE EXIT SIGN: "EXIT STAIR DOWN", PER CBC SECTION 1013.4 SEE DETAIL 18C/A-10.2. TACTILE SIGNS SHALL COMPLY WITH CBC SECT. 11B-703.
4. DEDICATED EXIT DOOR OR ROUTE, SEE SHEET A-2.1 AND A-2.2 FOR ILLUMINATED SIGNAGE LOCATIONS. REFER TO SHEET A-10 FOR DOOR OR GATE HARDWARE AND OPERATING DEVICES.
5. EXISTING OR NEW INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) LOCATION AT DOOR OR SIDELIGHT GLAZING PER CBC CH 11B.
6. PROVIDE SIGNAGE AT DOOR: "EMERGENCY EXIT ONLY. SECURITY ALARM WILL SOUND IF DOOR IS OPENED"
7. PROVIDE SIGNAGE AT DOOR: "CAUTION NOT AN EXIT SLOPED GRADE DROP OFF. SECURITY ALARM WILL SOUND IF DOOR IS OPENED".
8. PROVIDE POSTED MAXIMUM OCCUPANCY SIGNAGE THIS ROOM, LOCATE IN CONSPICUOUS LOCATION, SEE DETAIL 24/A-10.2.

SUMMARY AREA OF SEPARATIONS



SECOND FLOOR — B OFFICE



FIRST FLOOR — A2 ASSEMBLY | B OFFICE | R2 RESIDENTIAL

FIRST FLOOR SIGN PLAN

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

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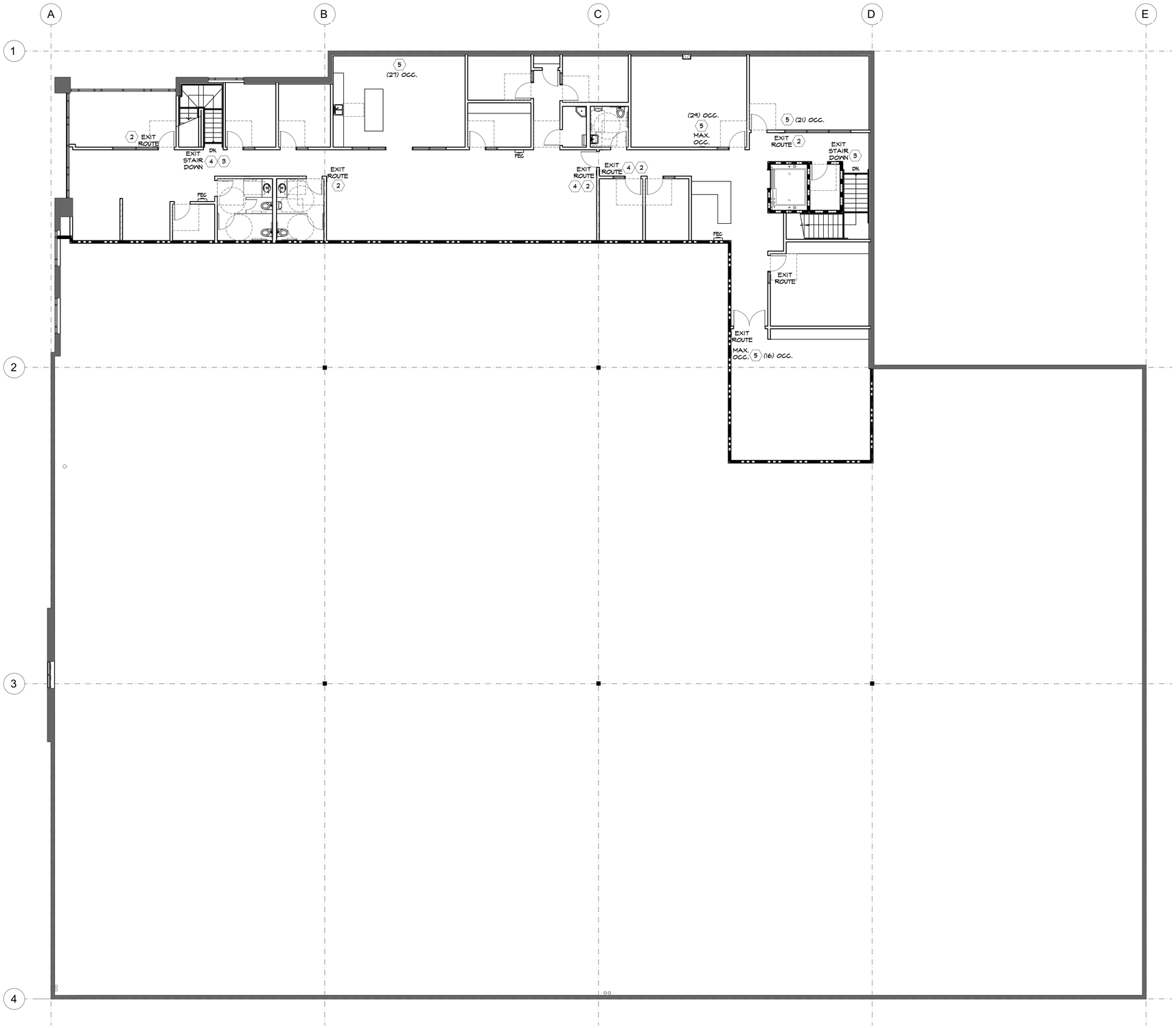
TITLE

SIGN PLAN

Revisions	By	Date
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
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Project No.	25011
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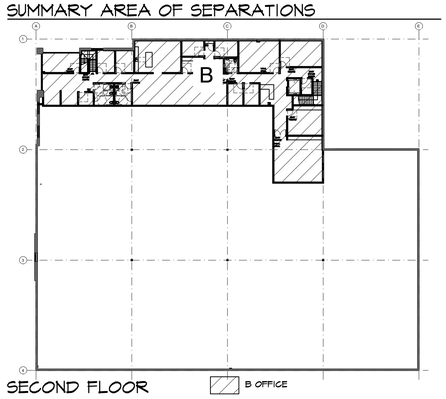
SIGN PLAN GENERAL NOTES

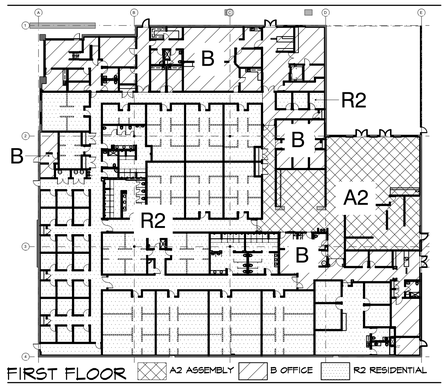
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3. REFER TO SHEET EX-1 FOR EGRESS PATH OF TRAVEL NOT SHOWN ON THIS SHEET.
4. REFER TO SHEET OCC-1 FOR OCCUPANT LOADS NOT SHOWN ON THIS SHEET.

SIGN PLAN KEY NOTES

1. PROVIDE TACTILE EXIT SIGN: "EXIT", PER CBC SECTION 1013.4 SEE DETAIL 18A/SHEET A-10.2. TACTILE SIGNS SHALL COMPLY WITH CBC SECT. 11B-703.
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3. PROVIDE TACTILE EXIT SIGN: "EXIT STAIR DOWN", PER CBC SECTION 1013.4 SEE DETAIL 18C/A-10.2. TACTILE SIGNS SHALL COMPLY WITH CBC SECT. 11B-703.
4. DEDICATED EXIT DOOR OR ROUTE, SEE SHEET A-2.1 AND A-2.2 FOR ILLUMINATED SIGNAGE LOCATIONS. REFER TO SHEET A-10 FOR DOOR OR GATE HARDWARE AND OPERATING DEVICES.
5. PROVIDE POSTED MAXIMUM OCCUPANCY SIGNAGE THIS ROOM, LOCATE IN CONSPICUOUS LOCATION, SEE DETAIL 24/A-10.2.

SUMMARY AREA OF SEPARATIONS





SECOND FLOOR SIGN PLAN

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

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XT-2

SITE PLAN GENERAL NOTES

1. NEW SLURRY COAT OVER ALL EXISTING ASPHALT PARKING/SITE AREAS, SEE CIVIL DRAWINGS FOR LOCATIONS.
2. NEW PARKING STALL STRIPING PER CITY STANDARDS, AT LOCATIONS AS INDICATED ON PLAN.
3. POWER WASH ALL CONCRETE AREAS THAT ARE TO REMAIN.
4. POWER WASH EXTERIOR OF BUILDING AS NEEDED. PATCH/REPAIR BUILDING WALL CRACKS, BLEND NEW TO EXISTING CONSTRUCTION.
5. FIELD VERIFY EXISTING IRRIGATION, ELECTRICAL CONDUITS, ETC. WITHIN AREA OF IMPROVEMENTS, PRIOR TO COMMENCING CONSTRUCTION. RELOCATE AS NEEDED ANY BELOW GRADE SYSTEMS THAT MAY CONFLICT WITH NEW WALKWAY/RAMP LAYOUT AND OTHER IMPROVEMENTS, TYPICAL.
6. PROTECT IN PLACE AS NEEDED, EXISTING ADJACENT LANDSCAPING IRRIGATION AND OTHER ELEMENTS THAT ARE TO REMAIN, DURING CONSTRUCTION. SEPARATE IRRIGATION AS REQUIRED TO ACCOMMODATE NEW LANDSCAPING.
7. NEW CONCRETE WALKWAYS SHALL HAVE MAX. SLOPE 1:20 (5%) IN DIRECTION OF TRAVEL AND 1:50 (2%) CROSS SLOPE. PROVIDE MIN. 4'-0" CLR. WIDTH TYP. AND MEDIUM BROOM SLIP RESISTANT FINISH UNLESS NOTED OTHERWISE.
8. CONSTRUCTION IN THE PUBLIC RIGHT OF WAY AND PROJECTION BEYOND THE PROPERTY LINES OR INTO SETBACKS SHALL COMPLY WITH ALL CITY OF FONTANA CODES AND REQUIREMENTS.
9. PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES AS REQUIRED BY CITY OF COSTA MESA CODES AND REQUIREMENTS.
10. REFER TO SHEET A-0.1 FOR SITE DEMOLITION INFORMATION.
11. REFER TO CIVIL ENGINEERING DRAWINGS FOR SITE WORK SCOPE AND UTILITY INFORMATION.
12. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL UTILITY INFORMATION NOT SHOWN ON ARCHITECTURAL DRAWINGS.
13. REFER TO SHEET A-0.2 FOR DEMOLITION WORK AT INTERIOR OF BUILDING.
14. REFER TO SHEET A-1.0 DOOR SCHEDULE FOR SITE'S DOOR INFORMATION.

SITE & BLDG INFORMATION

SITE AREA: 71,874 S.F. (1.65 ACRE)
EXISTING BUILDING COVERAGE (FOOTPRINT): 33,984 SF; 47.28%
EXISTING FLOOR AREA
FIRST FLOOR: 33,984 SF
SECOND FLOOR: 1,561 SF
TOTAL AREA: 35,553 SF

EXISTING FAR: .495

NEW PROPOSED BUILDING COVERAGE

PROPOSED FLOOR AREA
FIRST FLOOR: 33,984 SF (NO CHANGE)
SECOND FLOOR: 6,030 SF
TOTAL AREA: 40,014 SF

ACCESSORY BLDGS
COVERED LOCKER STORAGE: 1,961 SF
OUTDOOR PATIO: 321 SF
TOTAL AREA: 2,282 SF

NEW PROPOSED BUILDING COVERAGE: 33,984 + 2,282 SF/ 71,874: 51.5%

PROPOSED FAR: 40,014 SF/71,874 SF=.556

FRONT (NORTH) PARKING TABULATION

PROVIDED:	PROPOSED:
(1) ACC. VAN	(2) ACC. VAN
(1) ACC. STD.	(2) ACC. STD.
(14) STD.	(1) ACC. VAN EVCS
	(10) STD.
	(5) NEW STD.
TOTAL: (16) EXIST. SP.	(20) SPACES

SIDE (EAST) PARKING TABULATION

PROVIDED:	PROPOSED:
(0) ACC. VAN	(0) ACC. VAN
(0) ACC. STD.	(0) ACC. STD.
(33) STD.	(1) STD. EVCS
	(15) STD.
TOTAL: (12) EXIST. SP.	(16) SPACES

SITE PLAN KEYNOTES

1. SCE TRANSFORMER AND PAD WITH 12" DIA. CONCRETE BOLLARDS.
2. EXISTING FIRE SPRINKLER BACK FLOW DEVICE, SEE CIVIL DRAWINGS AND FIRE SPRINKLER DRAWINGS.
3. EXISTING WATER METER AND BACK FLOW, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXISTING PAINTED WROUGHT IRON FENCE, PEDESTRIAN GATE AND ROLLING GATE FENCE TO REMAIN AS IS.
5. EXISTING CHAINLINK FENCING AND RELATED TO REMAIN AS IS.
6. EXISTING CHAIN LINK FENCING AND RELATED AT SITE PERIMETER TO BE DEMOLISHED AND REMOVED.
7. LINE INDICATES PATH OF TRAVEL FROM PUBLIC RIGHT OF ACCESSIBLE WAY TO BUILDING ACCESSIBLE ENTRY AND THROUGHOUT INTERIOR OF BUILDING.
8. ACCESSIBLE CLEAR SPACE AT ENTRY OF EGRESS DOOR OR GATE.
9. FIELD PAINTED CORRUGATED METAL GATE(S) AT EXISTING TRASH ENCLOSURE TO REPAIRED AND REPAINTED AS REQUIRED TO A NEW ACCEPTABLE CONDITION.
10. EXISTING +/- 6'-0" H CMU TRASH ENCLOSURE TO REMAIN. REPAIR/RECONDITION AS REQUIRED. PROVIDE NEW STEEL POSTS, NYRE MESH PANELS AND METAL ROOF AT TOP OF CMU WALLS, SEE DETAIL 3 SHEET SP-1.2
11. DETECTIBLE WARNING AT CURB OR A/C PAVING AS SHOWN ON PLAN. SEE DETAIL 7/SP-1.4.
12. NEW OR EXISTING STANDARD PARKING STALL PER CITY OF FONTANA DEVELOPMENT STANDARDS.
13. CLEAN AIR/EV/CAR POOL STANDARD PARKING STALL PER CITY OF FONTANA DEVELOPMENT STANDARDS WITH ACCESS LANE.
14. NEW OR EXISTING VAN ACCESSIBLE PARKING STALL AND SIGNAGE. SEE DETAIL 5 / SP-1.4.
15. NEW OR EXISTING STANDARD ACCESSIBLE PARKING STALL WITH ACCESS LANE AND SIGNAGE. SEE DETAIL 5 / SP-1.4.
16. NEW PLAYGROUND AREA WITH SOFTSCAPE SURFACE AND PLAYGROUND STRUCTURE (NIC) OVER COMPACTED FILL.
17. NEW OR EXISTING PLANTED AREA / PLANTER/ DG AREA, SEE CIVIL ENGINEERING DRAWINGS.
18. NEW ACCESSIBLE COMPOSITE GATE MATCH ADJACENT FENCE, SEE NOTE 46, AT PLAYGROUND/COURTYARD AREA. SAWCUT EXISTING CONCRETE WALL. REFER TO DOOR HARDWARE SCHEDULE FOR GATE HARDWARE SPECIFICATION.
19. LINE OF ROOF OVERHANG, ROOF CANOPY OR COVERED ROOF AREA.
20. NEW CONCRETE WALKWAY OR PAD. PROVIDE 2% MAX SLOPE AND CROSS SLOPE, TYPICAL. REFER TO ACC-1 FOR TYPICAL INFORMATION AND CIVIL DRAWINGS.
21. EXISTING TRUCK WELL AND LOADING DOCK TO BE INFILLED WITH COMPACTED SOIL. EXISTING SUMP PUMP AND RELATED TO BE DEMOLISHED AND REMOVED. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
22. ELECTRICAL AND FIRE RISER EQUIPMENT ACCESS LOCATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
23. NEW OR EXISTING HOSE BIBB LOCATION, SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
24. NEW PLAYGROUND EQUIPMENT (NIC)
25. NEW BASKETBALL BACKBOARD LOCATION (NIC)
26. EXISTING SITE ENTRY SIGNAGE, SEE DETAIL 1 / SP-1.4.
27. SYMBOL OF ACCESSIBILITY SIGNAGE AT ENTRY DOOR, SEE DETAIL 7, SHEET ACC-3.
28. LOCATION OF MOTORIZED GATE CONTROL, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. SEE DETAILS 16, 18, 21 AND 23 SHEET A-14.3 FOR LOOPING, GATE OPERATOR AND DRIVE RAIL, AND GATE PANEL INFORMATION.
29. WEATHERPROOF, GFCI DUPLEX RECEPTACLE. SEE ELECTRICAL DRAWINGS.
30. AREA DRAIN. SEE PLUMBING / CIVIL DRAWINGS.
31. 4" DIA. CONCRETE BOLLARD. SEE DETAIL 25 / SP-1.2.
32. NEW MOTORIZED SOLID FENCE AND ROLLING GATE WITH KNOX BOX AT LOCATION AS SHOWN, SEE DETAIL 5 / SP-1.2.
33. NEW SOLID FENCE ACCESSIBLE PEDESTRIAN GATE WITH CARD READER, SEE DOOR SCHEDULE AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. SEE DETAIL 22 / SP-1.4.
34. EXISTING ROOF DRAIN SCUPPER AND OVERFLOW, PROVIDE SPLASH BLOCK AT LANDSCAPED AREAS AS REQUIRED. REPAIR ANY DAMAGED METAL LEADERS.
35. EXISTING STORM DRAIN COLLECTOR BOX, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
36. EXISTING DRAINAGE CURB/SWALE WITH CURB. RECONFIGURE AS REQUIRED, SEE CIVIL DRAWINGS.
37. EXISTING STONE RIP/RAP AT SWALE TO BE REMOVED AND REPLACED WITH TURF BLOCK (OR EQUAL) AND DG OR TURF AT DOG RUN AREA, SEE CIVIL DRAWINGS.
38. BUILDING MOUNTED LIGHT FIXTURE LOCATION. SEE ELECTRICAL LIGHT FIXTURE LEGEND FOR SCHEDULE.
39. COVERED LOCKER STORAGE AREA, SEE DETAILS 2 & 5/SP-1.3.
40. 8' X 20' X 8'-6" H STORAGE CONTAINER SET ON CONCRETE PAD OR LEVELING BLOCKS AT EXISTING A/C PAVING AREA.
41. PREFABRICATED "TUFF SHED" SECURITY BUILDING WITH SUBFLOOR LOCATION SET ON LEVELING BLOCKS AT A/C PAVING, PROVIDED AND INSTALLED BY G.C.
42. FREE STANDING FURNITURE (NIC) AS SHOWN
43. PROPOSED BELOW GRADE GREASE WASTE INTERCEPTOR, SEE CIVIL AND PLUMBING DRAWINGS
44. KITCHEN HVAC/HOOD EQUIPMENT TO BE LOCATED ON ROOF. SEE ROOF PLAN, MECHANICAL AND KITCHEN DRAWINGS FOR LOCATION. SHOWN HERE SCHEMATIC ON PLAN.
45. ACCESSIBLE PATH OF TRAVEL AT STRIPED AREA, SEE DETAIL 20 / SP-1.3.
46. NEW 6'-0" H. COMPOSITE FENCE, SEE DETAIL 12 / SP-1.4.
47. 8'-0" x 11'-0" PREFABRICATED HOT BOX ENCLOSURE 0 RUNNERS WITH SUBFLOOR (PROVIDED AND INSTALLED BY G.C.) WITH HOT BOX UNIT AND (2) STORAGE SHELF UNITS.
48. NEW VAN ACCESSIBLE EVCS LOCATION, SEE ELECTRICAL ENGINEERING DWGS.
44. NEW STANDARD EVCS LOCATION, SEE ELECTRICAL ENGINEERING DWGS.

EXTERIOR FIXTURES

- AA — LED POLE LIGHT
- BB — LED WALL MOUNT
- CC — LED WALL SCONCE
- 8 FT. LED STRIP SURFACE MOUNT
- CCTV CAMERA, SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION

SITE LEGEND

- ACCESSIBLE PATH OF TRAVEL
- FIRE DEPARTMENT ACCESS

PROPERTY LEGAL DESCRIPTION:
PARCEL MAP NO. 16613 IN THE CITY OF FONTANA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA. BEING A SUBDIVISION OF LOT 7, TRACT NO. 8554, AS PER MAP RECORDED IN BOOK 123 OF MAPS, PAGES 13-17, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EASEMENT NOTES

1. AN EASEMENT FOR PUBLIC UTILITIES PURPOSES IN FAVOR OF VAIROUS PUBLIC UTILITY COMPANIES, AS SHOWN ON MAP OF TRACT NO. 8554, M.B. 123 / 13-17.
2. AN EASEMENT FOR RAILROAD PURPOSES IN FAVOR OF SOUTHERN PACIFIC TRANSPORTATION COMPANY, AS SHOWN ON MAP OF TACT NO. 8554, M.B. 123 / 13-17.
3. AN EASEMENT FOR DRAINAGE PURPOSES IN FAVOR OF THE COUNTY OF SAN BERNARDINO, AS SHOWN ON MAP OF TRACT NO. 8554, M.B. 123 / 13-17.
4. AN EASEMENT FOR ROADWAY PURPOSES IN FAVOR OF KAISER STEEL CORPORATION, RECORDED NOVEMBER 14, 1978, IN BOOK 9560, PAGE 284, O.R.

PROPOSED DESIGN SITE PLAN

SCALE: 1"=150'-0"

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FOR

FONTANA CALIFORNIA

TITLE

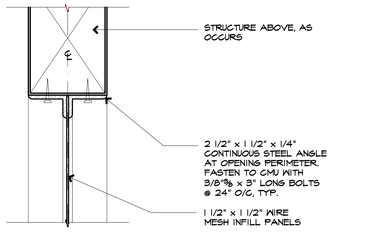
SITE PLAN & PROJECT INFORMATION

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	1/8"=1'-0"

Sheet

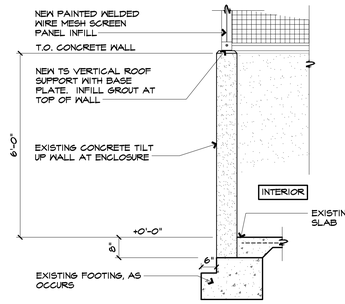
SP-1.1



WIRE SCREEN HEAD 20

WIRE SCREEN HEAD

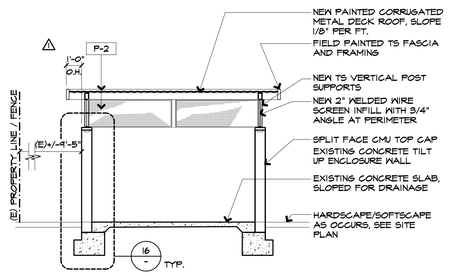
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TRASH ENCLOSURE SECTION 16

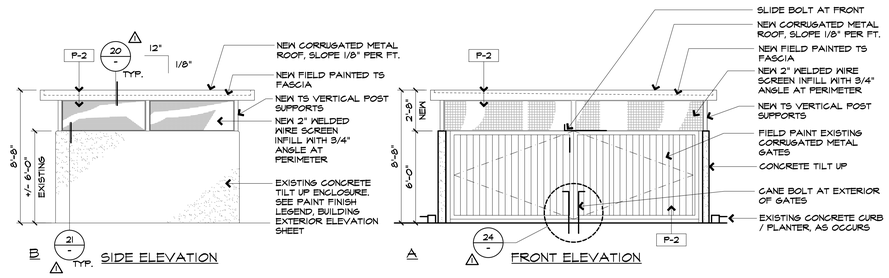
TRASH ENCLOSURE WALL SECTION

SCALE: 1/2"=1'-0"



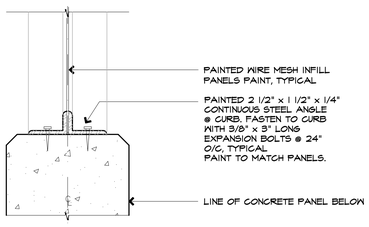
TRASH ENCLOSURE SECTION 11

SCALE: 1/4"=1'-0"



TRASH ENCLOSURE EXTERIOR ELEVATIONS 1

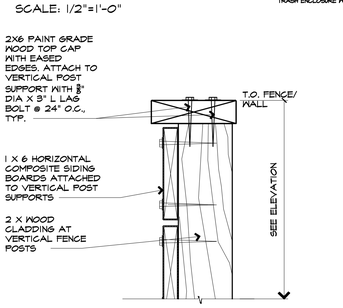
SCALE: 1/4"=1'-0"



WIRE SCREEN SILL/JAMB 21

WIRE SCREEN SILL-JAMB

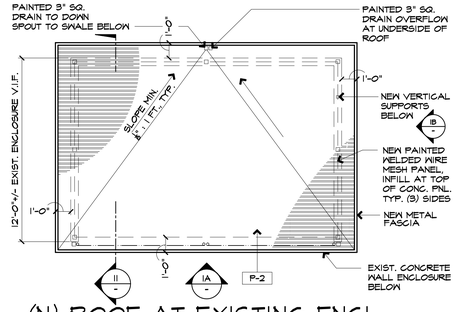
SCALE: 3"=1'-0"



SCREEN FENCE CAP 17

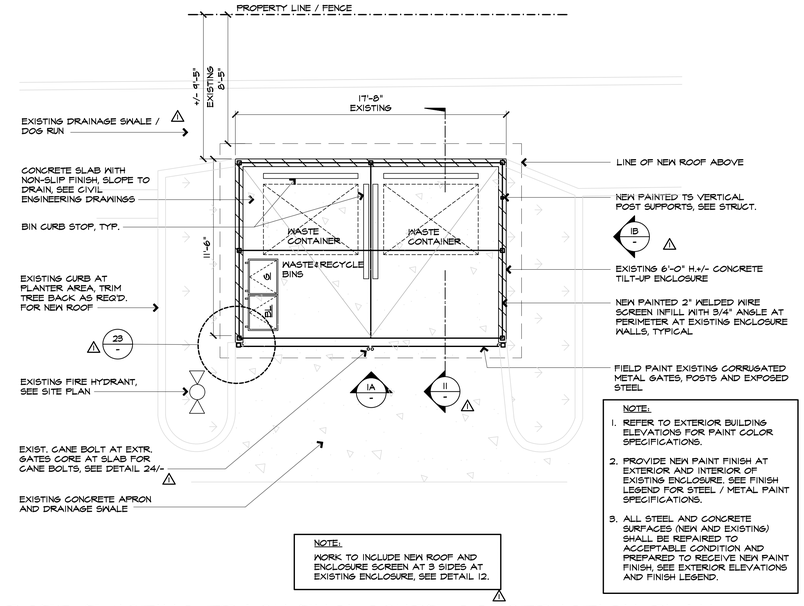
screen fence cap-1.dwg

SCALE: 3"=1'-0"



(N) ROOF AT EXISTING ENCL. 12

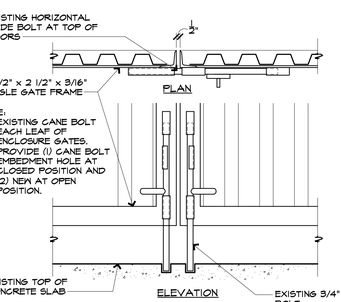
SCALE: 1/4"=1'-0"



ENLARGED EXISTING TRASH ENCLOSURE CONSTRUCTION PLAN 3

TRASH ENCLOSURE.dwg

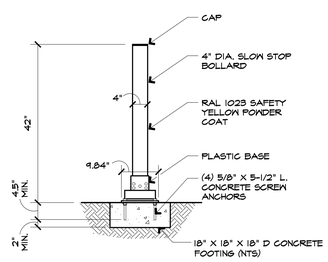
SCALE: 1/4"=1'-0"



GATE CANE BOLT DETAIL 24

TrashEnclDetail-3.dwg

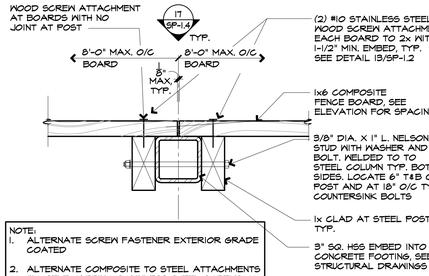
SCALE: 1-1/2"=1'-0"



FLEXIBLE PIPE BOLLARD 25

ConcFilledBollard.dwg
DIV-05

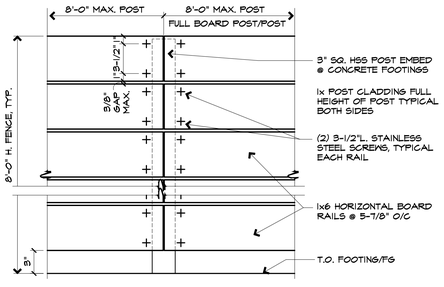
SCALE: 3/4"=1'-0"



WOOD FENCE POST JOINT 18

WD-FENCE_POST-J1

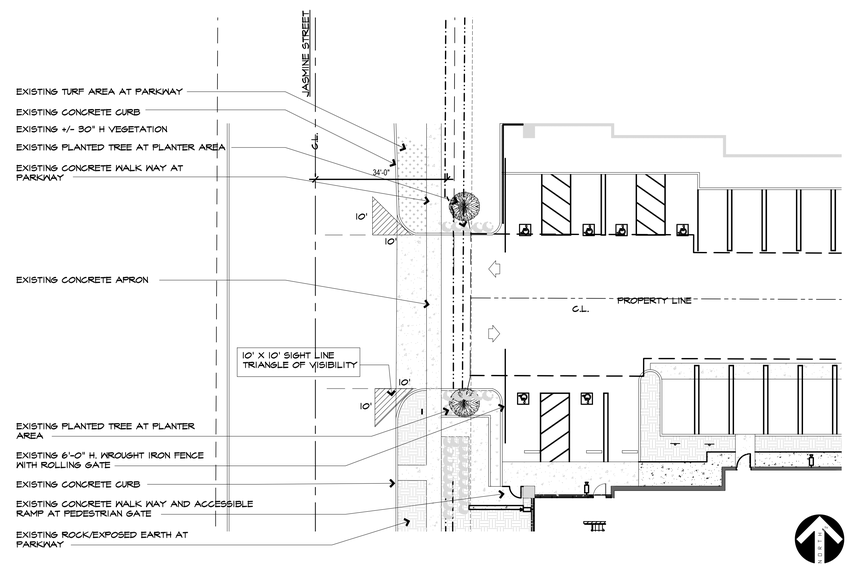
SCALE: 3"=1'-0"



COMPOSITE FENCE ELEVATION 13

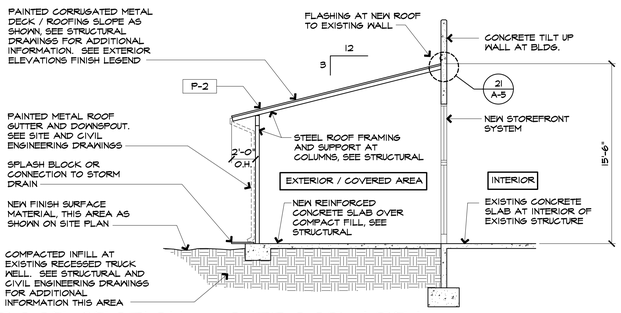
WD-FENCE_NORTH-ELEV A

SCALE: 1 1/2"=1'-0"



LINE OF SITE-VISIBILITY TRIANGLE 15

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



SLOPED ROOF SECTION @ OUTDOOR AREA 4

SCALE: 3/16"=1'-0"

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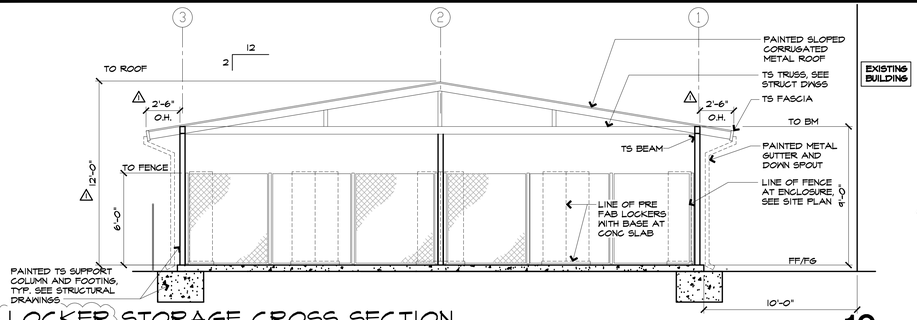
SITE ENLARGED PLANS & DETAILS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

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Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

SP-1.2

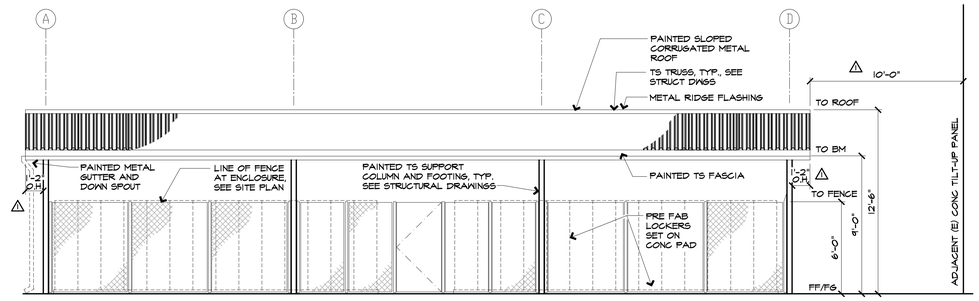


LOCKER STORAGE CROSS SECTION

SCALE: 1/4"=1'-0"

fontana cross section.dwg

16

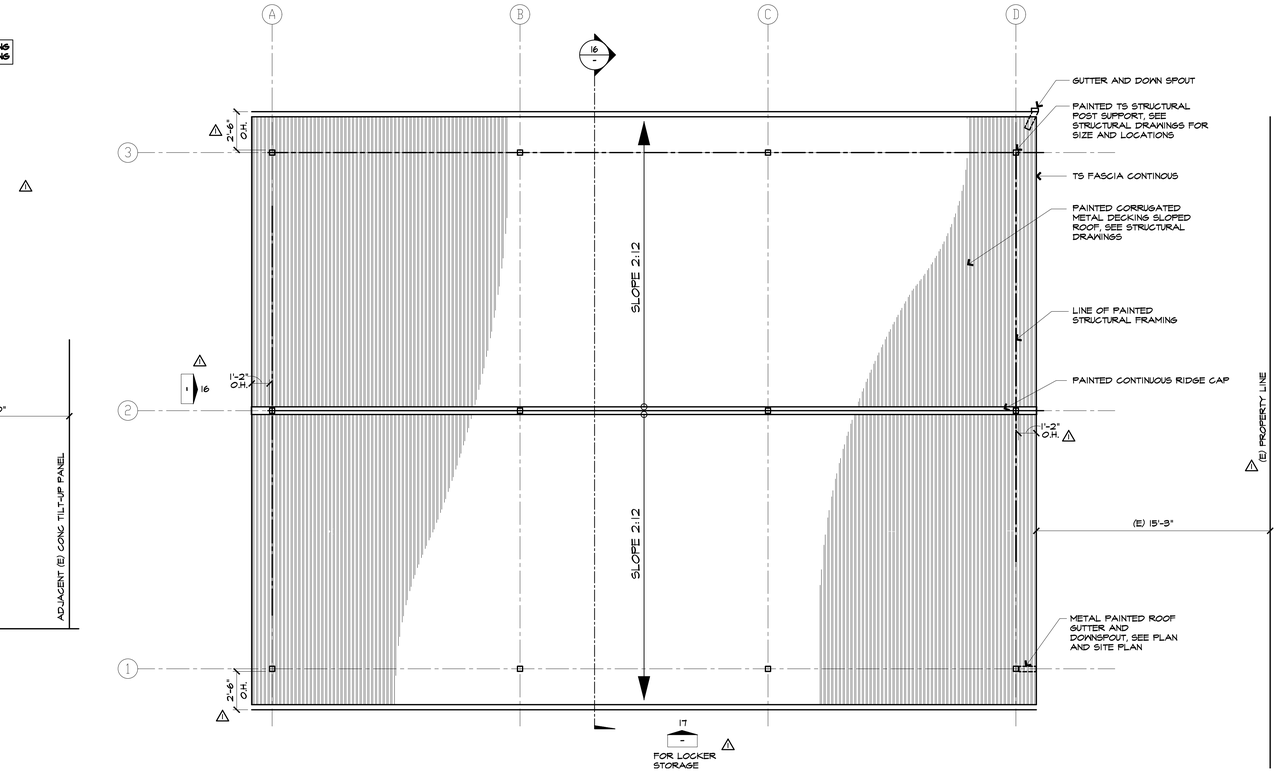


LOCKER STORAGE LONGITUDINAL SECTION

SCALE: 1/4"=1'-0"

fontana long section.dwg

17



LOCKER STORAGE ROOF PLAN

SCALE: 1/4"=1'-0"

2

4. ACTUAL PROPOSED HEIGHT/STORIES: 12'-0" / 1 STORY
5. FIRE RESISTIVE RATINGS FOR EXTERIOR WALLS-CBC TABLE 705.5
   SEPARATION DISTANCE: 10'-0" FROM ADJACENT STRUCTURE
   TYPE VB WITH S-2 OCCUPANCY: 10K_ X 130 = 0 (NO FIRE RESISTANCE REQUIRED)

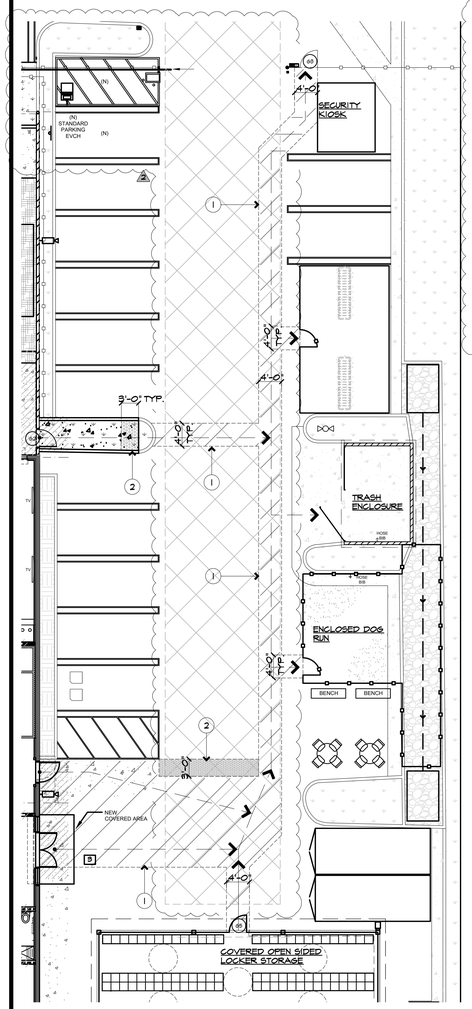
   PROPOSED STRUCTURE IS COMPRISED OF NON- COMBUSTIBLE STEEL CONSTRUCTION

BUILDING CODE ANALYSIS

1. ALLOWABLE BUILDING HEIGHT (CBC TABLE 504.3)
   TYPE V-B S-2 (NS) 40 FT 2 STORIES
2. ALLOWABLE AREA FACTOR-CBC TABLE 506.2
   TYPE V-B S-2 (SI) 54,000 SF
3. ACTUAL PROPOSED AREA: 1,688 SF

PROPOSED:

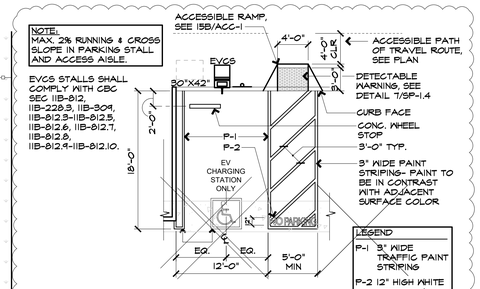
> COVERED STORAGE- OPEN (4) SIDES
> PROPOSED AREA: 1,688 SF
> PROPOSED HEIGHT: 12'-0"
> CONSTRUCTION TYPE: V-B NO SPRINKLERS
> OCCUPANCY GROUP: S-2
> SET BACK FROM ADJACENT STRUCTURE: 10'-0"



ENLARGED SITE 'POT' PLAN

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

20



VAN ACCESSIBLE EVCS PARKING

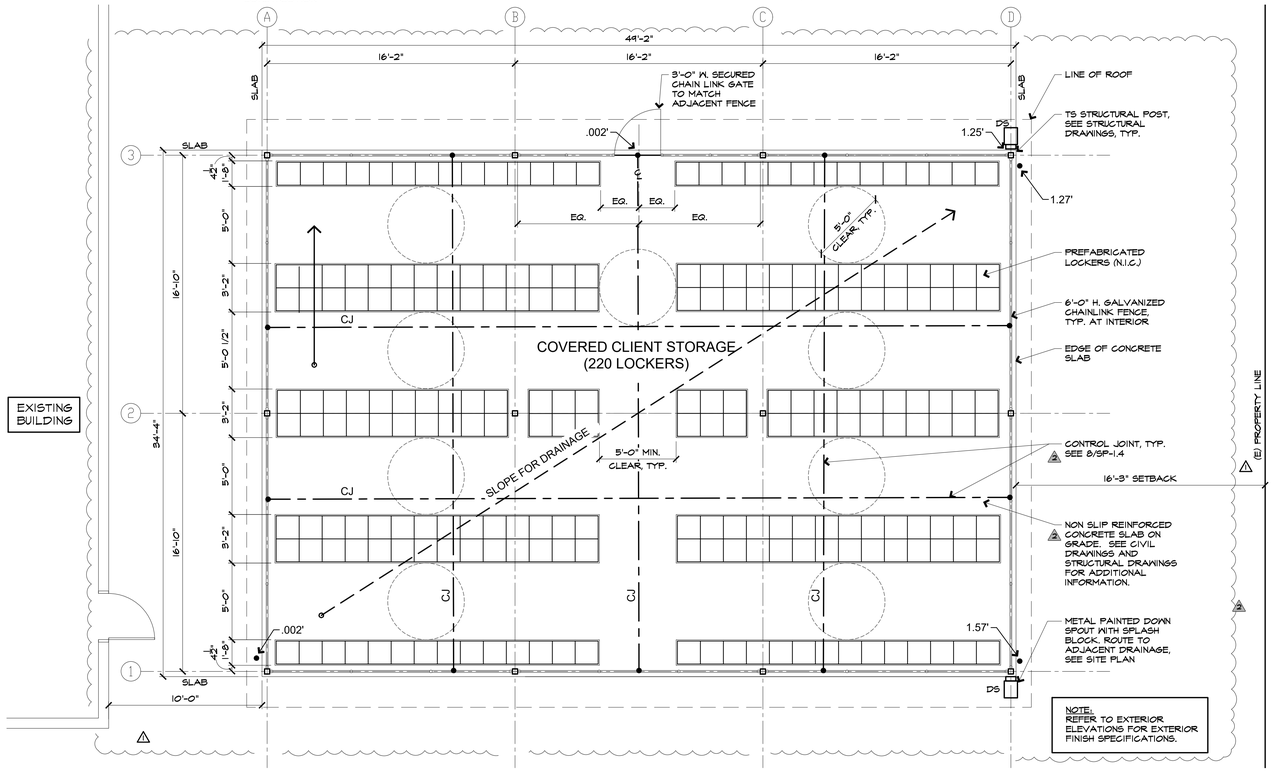
SCALE: 1/8"=1'-0"

VAN EVCS.dwg
DIV-02

18

PLAN KEYNOTES

1. ACCESSIBLE PATH OF TRAVEL AT STRIPED AREA, SLOPE/CROSS SLOPE NOT TO EXCEED 2%. AREA TO RECEIVE NEW SLURRY FINISH, SEE GRADING PLAN. ABRUPT CHANGES IN LEVEL SHALL NOT EXCEED 1/4" WITH BEVELED EDGE AT 1:2 MAXIMUM AND SHALL NOT EXCEED 1/2" OVERALL HEIGHT MAXIMUM.
2. DETECTIBLE WARNING AT ZERO CURB FACE, CURB OR A/C PAVING AS SHOWN ON PLAN. SEE DETAIL 7/SP-1.4.



LOCKER STORAGE FLOOR PLAN

SCALE: 1/4"=1'-0"

5

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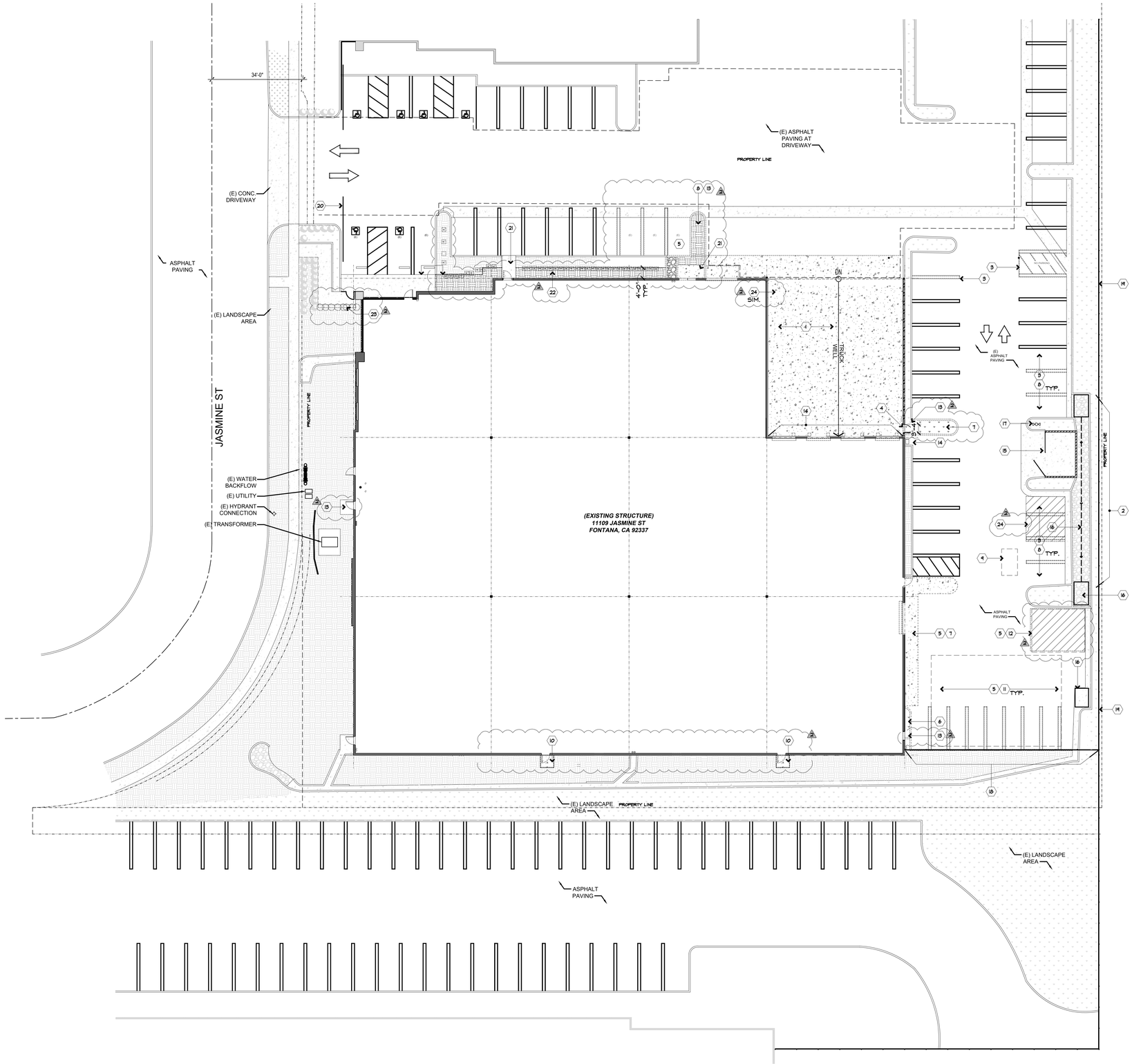
ELARGED LOCKER STORAGE PLAN & DETAILS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

SP-1.3



DEMOLITION LEGEND

- EXISTING EXTERIOR SHELL WINDOW WALL TO REMAIN.
- EXISTING INTERIOR PARTITION OR BUILDING SHELL WALLS TO REMAIN.
- EXISTING INTERIOR OR EXTERIOR PARTITION OR DOOR TO BE REMOVED.

GENERAL DEMOLITION NOTES

1. PROVIDE SHORING DRAWINGS AND PROVISIONS WHERE DEMOLITION MAY ENDANGER STRUCTURAL ELEMENTS OF THE EXISTING STRUCTURE.
2. PROVIDE PROTECTIVE BARRICADES AS REQUIRED TO ENSURE SAFETY OF WORKERS AND/OR OCCUPANTS.
3. REMOVE ALL ABANDONED DEBRIS ON-SITE AS THE RESULT OF DEMOLITION ACTIVITIES AND/OR AS DIRECTED BY CITY REPRESENTATIVE.
4. REFER TO CIVIL ENGINEERING DRAWINGS FOR COMPLETE INFORMATION THAT MAY NOT BE SHOWN ON THIS DRAWING.
5. REFER TO SHEET A-0.2 FOR DEMOLITION SCOPE OF WORK FOR THE STRUCTURE.

DEMOLITION PLAN NOTES

1. EXISTING TRUCK WELL TO BE DEMOLISHED AND PREPARED FOR NEW INFILL/CONSTRUCTION AS SHOWN ON SHEET SP-1.1. UTILIZE EXISTING DRAIN TO ACCOMMODATE NEW PLANTED AREA AS NOTED.
2. DEMOLISH AND REMOVE EXISTING RIP/RAP AT DRAINAGE SWALE, PREPARE TO RECEIVE NEW PAVERS AT DOG RUN AREA.
3. REMOVE EXISTING PARKING STRIPING AS SHOWN, TYPICAL. SEE CIVIL DRAWINGS.
4. SAWCUT EXISTING CONCRETE RETAINING WALL AT TRUCK WELL TO ACCOMMODATE NEW GATE.
5. EXISTING A/C PAVING OR CONCRETE, THIS AREA TO BE REMOVED AND PREPARED TO RECEIVE NEW CONCRETE SLAB. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
6. EXISTING LANDSCAPING, THIS AREA, TO BE REMOVED AND REPLACED, SEE SP-1.1.
7. EXISTING CONCRETE CURB AND SIDEWALK TO BE DEMOLISHED AND REMOVED, AS OCCURS.
8. DEMOLISH AND REMOVE EXISTING CONCRETE CURB, WHEEL STOPS ETC. AREA AS SHOWN.
9. SAW CUT EXISTING A/C PAVING AND EXCAVATE AREA AS REQUIRED TO ACCOMMODATE GREASE TRAP INTERCEPTOR. SEE CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. EXACT LOCATION TO BE DETERMINED. REFER TO CIVIL AND PLUMING DRAWINGS FOR ADDITIONAL INFORMATION.
10. EXISTING CONCRETE LANDINGS TO BE DEMOLISHED AND REMOVED. REPAIR / NEW LANDSCAPE / SLOPE TO MATCH ADJACENT.
11. PREPARE THIS AREA TO RECEIVE NEW CONCRETE FOOTINGS AND STRUCTURAL SUPPORTS FOR BIN STORAGE ROOF STRUCTURE, SEE ENLARGED PLAN AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. PREPARE THIS AREA TO RECEIVE NEW REINFORCED CONCRETE SLAB ON LEVEL CONCRETE FOR NEW CONTAINER STORAGE UNITS (N.I.C.)
13. REMOVE EXISTING LANDSCAPE AND PREPARE THIS AREA TO RECEIVE NEW CONCRETE PAD FOR EXIT LANDING.
14. EXISTING DOCK LOADING BUMPERS AND RELATED EQUIPMENT INCLUDING SUMP PUMP AND DRAINS, ETC. TO BE DEMOLISHED AND REMOVED TO ACCOMMODATE NEW BACKFILL.
15. EXISTING CONCRETE TRASH ENCLOSURE TO REMAIN AS-IS. RESTORE / REFURBISH DAMAGED GATES, CURBS, BLOCKING AS REQUIRED TO RECEIVE REFURBISHMENT. NEW ROOF STRUCTURE TO BE ADDED TO EXISTING STRUCTURE, SEE DETAIL 3/SP-1.2 FOR ADDITIONAL INFORMATION.
16. EXISTING CONCRETE COLLECTOR DRAINAGE BOX TO REMAIN AS-IS. RE-WORK AS REQUIRED TO ACCOMMODATE NEW BELOW GRADE STORM DRAINAGE PIPING, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
17. EXISTING FIRE HYDRANT CONNECTION TO REMAIN AS-IS.
18. EXISTING CHAINLINK FENCE AND POST / FOOTINGS AT SITE TO BE DEMOLISHED AND REMOVED.
19. EXISTING CHAINLINK FENCE AT PROPERTY LINE TO REMAIN AS-IS UNLESS NOTED OTHERWISE. REPAIR TO LIKE-NEW CONDITION.
20. EXISTING W.I. GATE AND FENCE TO REMAIN AS-IS UNLESS NOTED OTHERWISE.
21. NEW DOOR LOCATION, SEE FLOOR PLAN AND SITE PLAN FOR ADDITIONAL INFORMATION.
22. EXISTING ROCK AND STEPPING STONES TO BE REMOVED TO ACCOMMODATE NEW CONCRETE SIDE WALK, SEE SP-1.1.
23. EXISTING LANDSCAPE TO BE REMOVED. PREPARE TO RECEIVE NEW REINFORCED CONCRETE SLAB ON GRADE AT ACCESSIBLE GATE LANDING, SEE PLAN.
24. EXISTING A/C PAVING TO BE REMOVED TO ACCOMMODATE NEW DECOMPOSED GRANITE INFILL OVER BASE.

NORTH

SITE DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

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SITE DEMOLITION PLAN, NOTES & LEGEND

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

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Sheet

A-0.1



FIRST FLOOR BUILDING DEMOLITION PLAN

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

DEMOLITION WALL LEGEND

- EXISTING EXTERIOR SHELL WALL TO REMAIN
- EXISTING INTERIOR PARTITION OR BUILDING CORE WALLS TO REMAIN.
- EXISTING INTERIOR PARTITION OR DOOR TO BE REMOVED
- EXISTING DOOR TO BE REMAIN
- U.N.O., EXISTING RECEPTACLE TO BE REMOVED

GENERAL DEMOLITION NOTES

1. ALL ELECTRICAL RECEPTACLES, TEL/COMM DATA, SWITCHING, CONDUIT, WIRING, ETC. SHALL BE SAFELY TERMINATED AND REMOVED BACK TO UTILITY ROOM.
2. COVER AND PROTECT IN PLACE ALL EXTERIOR DOORS, FRAMES, HARDWARE & STOREFRONT SYSTEMS THAT ARE TO REMAIN DURING DEMOLITION.
3. PATCH AND REPAIR EXISTING WALLS NOTED TO REMAIN WHERE CONNECTING WALLS WERE REMOVED AS NECESSARY.
4. DEMOLITION CONTRACTOR TO COORDINATE WITH OWNER FOR THE DISPOSAL ALL DEMOLISHED EQUIPMENT.
5. ALL AREAS OF DEMOLITION SHALL BE CLEANED AND PATCHED AS NEEDED IN PREPARATION TO RECEIVE NEW FINISH AT LATER DATE.
6. GENERAL CONTRACTOR IS REQUIRED TO PROVIDE MEASURES DURING DEMOLITION AND OTHER DUST CREATED WORK TO ENSURE DUST CONTAMINATED AIR DOES NOT GO INTO ADJACENT PREMISES.
7. ALL UTILITY SHALL BE CAPPED WITH LIKE MATERIAL PER INSPECTOR SATISFACTION.
8. GENERAL CONTRACTOR TO REMOVE ANY FURNITURE, FIXTURES AND EQUIPMENT REMAINING IN AREA OF WORK.
9. SHORING DRAWINGS FOR DEMOLITION SHALL BE PROVIDED BY OTHERS AS A SEPARATE PERMIT/SUBMITTAL.
10. REFER TO SHEET A-0.1 FOR RELATED SITE DEMOLITION WORK.

DEMOLITION KEY NOTES

1. EXISTING STRUCTURAL COLUMNS TO REMAIN, PROTECT IN PLACE. REMOVE ALL NON-STRUCTURAL FURRING FROM AROUND COLUMN.
2. REMOVE ALL EXISTING FLOOR FINISHES DOWN TO SUB-FLOOR. SCRAPE, GRIND AND PREPARE FLOOR DECKING AS NEEDED READY TO RECEIVE NEW FINISHES.
3. REMOVE EXISTING ROLL-UP WAREHOUSE DOOR AND RELATED HARDWARE. PREPARE TO RECEIVE NEW STOREFRONT SYSTEM AS OCCURS.
4. EXISTING PLUMBING FIXTURES TO BE DEMOLISHED. TERMINATE PLUMBING WASTE, VENT & WATER PIPING PER CODE.
5. EXISTING STOREFRONT SYSTEM TO REMAIN, COVER AND PROTECT IN PLACE.
6. REMOVE EXISTING CONCRETE SLAB AT EXISTING DOOR (PREPARE FOR NEW SLAB WHERE OCCURS AT NEW/EXISTING DOOR AREAS), SEE SP-1.1. △
7. REMOVE EXISTING CONCRETE WALL PANEL FOR NEW DOOR.
8. PREP FOR NEW WALL IN-FILL, SEE WALL LEGEND WALL CONSTRUCTION PLAN.
9. NON-CONFORMING EXISTING STAIR TO DEMOLISHED AND REMOVED. △
10. REMOVE EXISTING DOOR AND FRAME. PREP FOR NEW DOOR AND FRAME.
11. REMOVE ALL EXISTING ABANDONED FLOOR MOUNTED BOLT ATTACHMENTS, BRACKETS, ETC. THROUGHOUT AND PREPARE FLOOR AS REQUIRED FOR NEW FINISH, TYPICAL. △
12. EXISTING WALL FRAMING TO REMAIN. REMOVE EXISTING GYP. BOARD BOTH SIDES AND PREPARE TO RECEIVE NEW 5/8" TYPE 'X' GYP BOARD AS REQUIRED.
13. EXISTING ROOF HATCH AND LADDER TO BE DEMOLISHED AND REMOVED. REMOVE HATCH AND RAILING AT ROOF.
14. EXISTING FIRE RISER LOCATION. PROTECT IN PLACE.
15. EXISTING BOLLARDS TO BE REMOVED.
16. EXISTING ROOF DRAINSPOUT AT EXTERIOR TO BE DEMOLISHED AS REQUIRED TO ACCOMMODATE NEW CONFIGURATION, SEE EXTERIOR ELEVATIONS.
17. SAWCUT EXISTING LOW CONCRETE RETAINING WALL AT TRUCKWELL TO ACCOMMODATE NEW MAN GATE.
18. EXISTING TRUCKWELL / LOADING DOCK TO BE DEMOLISHED AND PREPARED FOR INFILL, SEE CIVIL DRAWINGS AND SITE PLAN FOR ADDITIONAL INFORMATION
19. EXISTING SUSPENDED CEILING SYSTEM AT EXISTING CONSTRUCTION TO BE DEMOLISHED. REMOVE ALL ABANDONED GRID, TILE, SUSPENSION SYSTEMS, CABLING, CONDUIT, ETC. SEE DEMOLITION PLAN FOR ADDITIONAL INFORMATION.

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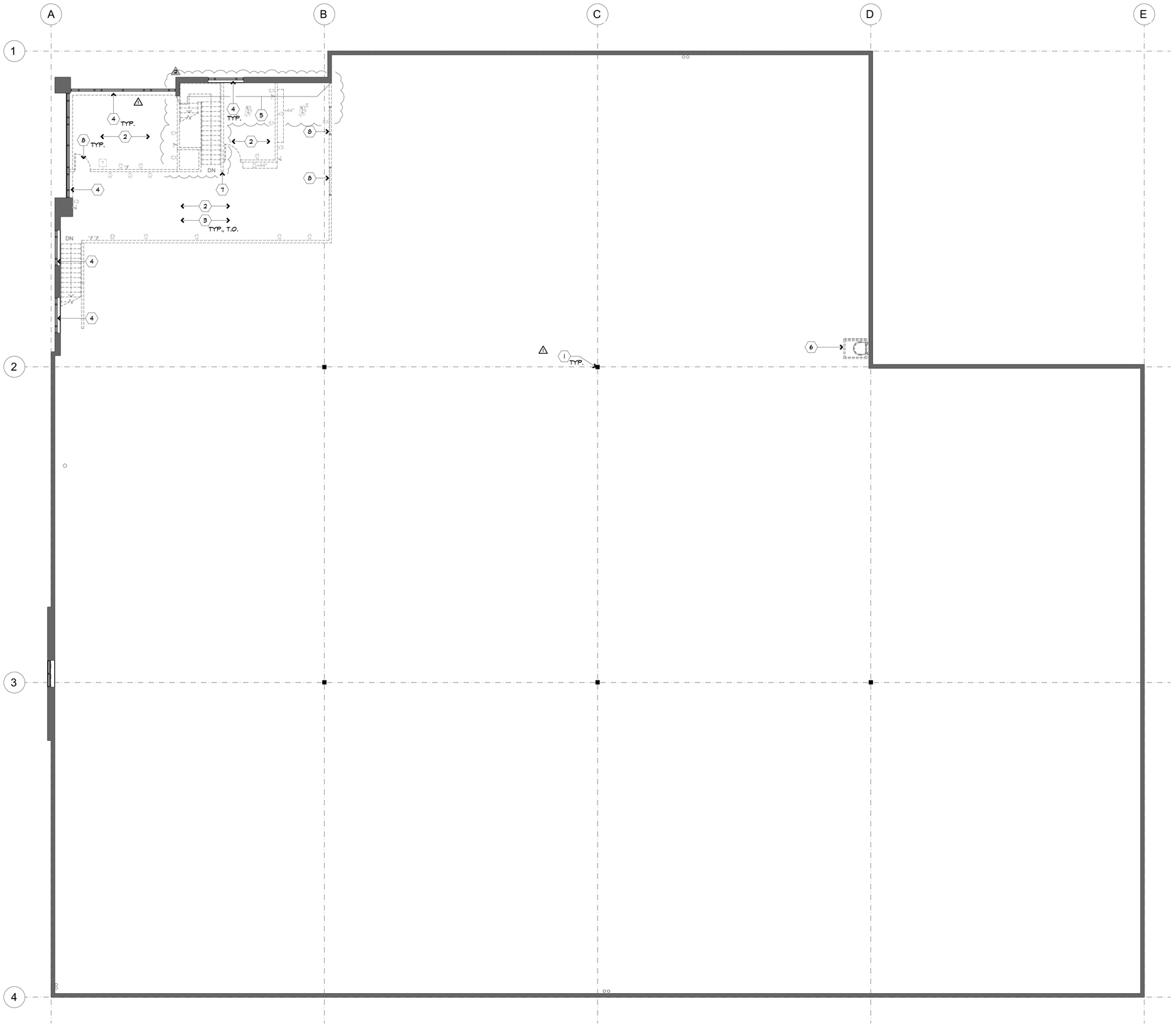
1ST FLOOR DEMOLITION PLAN & NOTES

Revisions	By	Date
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Sheet

A-0.2



SECOND FLOOR BUILDING DEMOLITION PLAN

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

DEMOLITION WALL LEGEND

- EXISTING EXTERIOR SHELL WALL TO REMAIN
- EXISTING INTERIOR PARTITION OR BUILDING CORE WALLS TO REMAIN.
- EXISTING INTERIOR PARTITION OR DOOR TO BE REMOVED
- U.N.O., EXISTING RECEPTACLE TO BE REMOVED

GENERAL DEMOLITION NOTES

1. ALL ELECTRICAL RECEPTACLES, TEL/COMM DATA, SWITCHING, WIRING, ETC. SHALL BE SAFELY TERMINATED AND REMOVED BACK TO UTILITY ROOM.
2. COVER AND PROTECT IN PLACE ALL EXTERIOR DOORS, FRAMES, HARDWARE & STOREFRONT SYSTEMS THAT ARE TO REMAIN DURING DEMOLITION.
3. PATCH AND REPAIR EXISTING WALLS NOTED TO REMAIN WHERE CONNECTING WALLS WERE REMOVED AS NECESSARY.
4. DEMOLITION CONTRACTOR TO COORDINATE WITH OWNER FOR THE DISPOSAL ALL DEMOLISHED EQUIPMENT.
5. ALL AREAS OF DEMOLITION SHALL BE CLEANED AND PATCHED AS NEEDED IN PREPARATION TO RECEIVE NEW FINISH AT LATER DATE.
6. GENERAL CONTRACTOR IS REQUIRED TO PROVIDE MEASURES DURING DEMOLITION AND OTHER DUST CREATED WORK TO ENSURE DUST CONTAMINATED AIR DOES NOT GO INTO ADJACENT PREMISES.
7. ALL UTILITY SHALL BE CAPPED WITH LIKE MATERIAL PER INSPECTOR SATISFACTION.
8. GENERAL CONTRACTOR TO REMOVE ANY FURNITURE, FIXTURES AND EQUIPMENT REMAINING IN AREA OF WORK.
9. SHORING DRAWINGS FOR DEMOLITION SCOPE AS REQUIRED SHALL BE PROVIDED BY OTHERS AS A SEPARATE PERMIT / SUBMITTAL.

DEMOLITION KEY NOTES

1. EXISTING STRUCTURAL COLUMNS TO REMAIN, PROTECT IN PLACE. REMOVE ALL NON-STRUCTURAL FURRING FROM AROUND COLUMN.
2. NOT USED.
3. DEMOLISH AND REMOVE SUSPENDED CEILING, LIGHTING, CONDUIT, ETC.
4. EXISTING STOREFRONT SYSTEM TO REMAIN, COVER AND PROTECT IN PLACE.
5. EXISTING CONSTRUCTION, THIS AREA TO REMAIN UNLESS NOTED OTHERWISE.
6. EXISTING LADDER AND ROOF HATCH AND ROOF MOUNTED RAILING TO BE DEMOLISHED.
7. EXISTING WALL FRAMING TO BE DEMOLISHED.
8. EXISTING WINDOW OR DOOR ASSEMBLY TO BE DEMOLISHED AND REMOVED.

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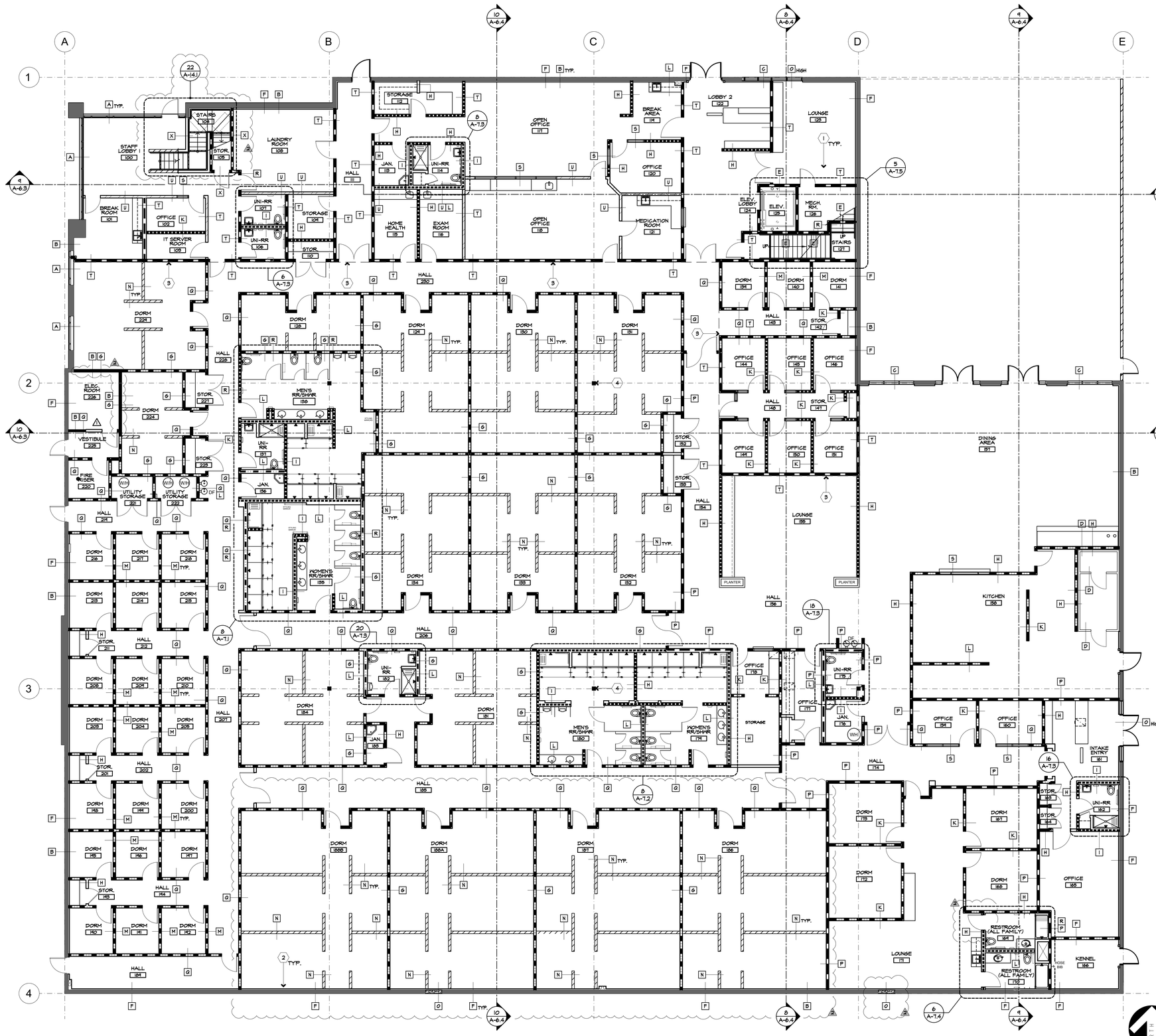
2ND FLOOR DEMOLITION PLAN & NOTES

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Sheet

A-0.3



FIRST FLOOR - WALL TYPE KEY PLAN

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

WALL LEGEND

NOTE: LEGEND APPLIES TO FIRST AND SECOND FLOOR. NOT ALL WALL TYPES APPEAR ON EITHER FLOOR.

- A — EXISTING EXTERIOR STOREFRONT OR GLAZING TO REMAIN.
- B — EXISTING WALL TO REMAIN.
- C — NEW EXTERIOR GLAZING SEE ELEVATION, SCHEDULE AND DETAILS
- D — PREFABRICATED COOLER WALL
- E — NEW ONE HOUR RATED ELEVATOR SHAFT WALL: 2X WOOD STUDS AT 16" O/C WITH 5/8" FIRECODE AT GYPSUM FIBEROCK PANELS WITH FINISHED JOINTS. PROVIDE MINERAL FIBER INSULATION AT STUD SPACE.
  REF DTL'S: 3, 5 & 7/A-7.2 UL DESIGN U314
- F — CONCRETE WALL-NON RATED FULL HEIGHT FURRING: 250S125-33 METAL STUDS AT 24" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD AT INTERIOR SPACE SIDE EXTEND FURRING TO 6" ABOVE CEILING AT CEILING AREAS. WHERE NO CEILING EXISTS, PROVIDE STUD SPACING AT 16" O/C AND EXTEND TO UNDERSIDE OF ROOF DECK. PROVIDE R-11 (U.N.O.) THERMAL INSULATION WITHIN FURRINGS. DENSSHIELD SUBSTRATE AT WET/TILE AREAS
  REF DTL'S: 6, 7 & 9/A-14.1
- G — NEW (1) HOUR RATED PARTITION: 12'-0" H. 362S125-33 @ 16" O/C WITH 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP OF WALL AS REQUIRED. MINERAL WOOL INSULATION AND RATED MOISTURE RESISTANT GYP BOARD AT WET/TILE AREAS.
  REF DTL'S: 5/A-13.1 AND 1/A-14.3
- H — NEW NON-RATED INTERIOR PARTITION: 12'-0" H. (UNDERSIDE OF 2ND FLOOR STRUCTURE AT FIRST FLOOR LOCATIONS) - 362S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD TYPICAL BOTH SIDES, UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP OF WALL AS REQUIRED. BATT INSULATION FOR SOUND. DENSSHIELD SUBSTRATE AT WET/TILE AREAS, SEE ELEVATION FOR TILE INSTALLATION METHOD.
  REF DTL'S: 2, 4, 5 & 7/A-13.1
- I — NEW NON-RATED INTERIOR PARTITION: 12'-0" H. (UNDERSIDE OF 2ND FLOOR STRUCTURE AT FIRST FLOOR LOCATIONS) - 250S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD TYPICAL BOTH SIDES, UNLESS NOTED OTHERWISE. BATT INSULATION FOR SOUND. DENSSHIELD SUBSTRATE AT WET/TILE AREAS. SEE ELEVATION FOR TILE INSTALLATION METHOD.
  REF DTL'S: 2/A-13.1 AND 3/A-14.3
- J — NEW NON-RATED INTERIOR PARTITION TO UNDERSIDE OF ROOF AT SECOND FLOOR. 12'-0" H. - 362S125-33 METAL STUDS AT 24" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES AND BATT INSULATION FOR SOUND.
  REF DTL'S: 5/A-13.1 AND 3/A-14.3
- K — NEW NON-RATED INTERIOR PARTITION: 10'-0" H. - 250S125-33 METAL STUDS AT 16" O/C WITH DENSSHIELD SUBSTRATE AT WET/TILE AREAS, TYPICAL, UNLESS NOTED OTHERWISE. FINISH TOP OF WALL AS REQUIRED. BATT INSULATION FOR SOUND. SEE ELEVATION FOR TILE INSTALLATION METHOD.
  REF DTL'S: 5/A-13.1 AND 1/A-14.3
- L — NEW NON-RATED PLUMBING WALL: 600S125-33 METAL STUDS AT 16" O/C WITH (2) LAYER 5/8" TYPE "X" GYPSUM BOARD ONE SIDE. EXTEND TO 6" ABOVE CEILING. DENSSHIELD SUBSTRATE AT WET/TILE AREAS. (362S125-33 AT WALLS '6' AND 'Q' LOCATIONS)
  REF DTL: 4, 5 & 15/A-13.1
- M — NEW (1) HOUR RATED INTERIOR PARTITION: 10'-0" H. 250S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP EDGE OF WALL AS REQUIRED. MINERAL WOOL BATT INSULATION.
  REF DTL'S: 5/A-13.1 AND 1 & 6/A-14.3
- N — NEW NON-RATED LOW PARTITION, 4'-0" H. - 250S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES. PROVIDE PAINT GRADE MDF SHAPED TOP CAP AND SCHEDULED MARLITE PANELS FULL HEIGHT OF WALL WITH MANUFACTURER'S TRIM PIECES. PROVIDE KING POST SUPPORTS AT END OF WALLS AND INTERMEDIATE SUPPORTS PER DETAIL. PROVIDE ELECTRICAL CHASE FOR EMERGENCY/NIGHT LIGHTING AS SCHEDULED.
  REF DTL: 5 & 10/A-14.2
- O — NEW EXTERIOR TILT UP CONCRETE WALL IN-FILL: ALIGN WITH EXISTING ADJACENT.
  REF DTL: 1, 2, 9/A-14.1
- P — NEW (1) HOUR RATED FULL HEIGHT OCCUPANCY SEPARATION WALL: +/- 27'-0" H. TO UNDERSIDE OF EXISTING ROOF SHEATHING - 800S125-43 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD TYPICAL BOTH SIDES. PROVIDE SLIP TRACK DEFLECTION TOP TRACK TOP OF WALL, FIRE SAFE JOINTS AND PENETRATIONS AND MINERAL WOOL INSULATION.
  REF DTL'S: 1, 4 & 9/A-14.2, 10/A-14.3
- Q — NEW (1) HOUR RATED INTERIOR CORRIDOR PARTITION: 12'-0" H. - 362S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES, UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP OF WALL AS REQUIRED. MINERAL WOOL BATT INSULATION. DESSHEILD SUBSTRATE AT WET/TILE AREAS. SEE ELEVATION FOR TILE INSTALLATION METHOD.
  REF DTL'S: 5/A-13.1 AND 5/A-14.3 AER-0436
- R — NON RATED PLUMBING WALL FURRING: 362S125-33 METAL STUDS AT 16" O/C WITH 5/8" TYPE 'X' GYPSUM BOARD OR DENSSHIELD SUBSTRATE AT WET/TILE AREAS. EXTEND FULL HEIGHT OF WALL.
  REF DTL'S: 4/A-13.1 SIM, 5/A-13.1
- S — NEW GLAZING AT GYP. BOARD WALL, SEE ELEVATION.
  REF DTL'S: 2 & 3/A-10.3
- T — NEW (1) HOUR RATED STRUCTURAL 2X WOOD STUD SHEAR WALL, SEE STRUCTURAL DRAWINGS FOR SPECIFICATIONS. INSTALL 5/8" TYPE 'X' GYPSUM BOARD OVER PLYWOOD AND OPPOSITE SIDE FOR (1) HOUR RATED ASSEMBLY. PROVIDE MINERAL WOOL INSULATION, FIRE SAFE JOINTS AND PENETRATIONS. ALIGN FINISH SUBSTRATES AT IN PLANE LOCATIONS.
  REF DTL'S: 14 & 15/A-14.2 13/A-14.3
- U — NEW NON-RATED STRUCTURAL 2X WOOD STUD SHEAR WALL, SEE STRUCTURAL DRAWINGS FOR SPECIFICATIONS. INSTALL 5/8" TYPE 'X' GYPSUM BOARD OVER PLYWOOD AND OPPOSITE SIDE WALL ASSEMBLY. PROVIDE SOUND BATT INSULATION FOR SOUND. ALIGN FINISH SUBSTRATES AT IN PLANE LOCATIONS.
  REF DTL'S: 14/A-14.2 SIM 15/A-14.2 SIM
- V — EXISTING INTERIOR PARTITION TO REMAIN. PATCH/REPAIR AND PREPARE FOR SCHEDULED FINISH. REPAIR RATED CONDITIONS, FIRE SAFE JOINTS AND PENETRATIONS TO LIKE-NEW CONDITION WHERE REQUIRED.
- W — NEW (1) HOUR RATED FULL HEIGHT OCCUPANCY SEPARATION WALL: +/- 15'-0" H. TO UNDERSIDE OF ROOF STRUCTURE ABOVE (FROM SECOND FLOOR AT 13'-6" A.F.F.) - 600S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD BOTH SIDES. PROVIDE SLIP TRACK DEFLECTION TOP TRACK TOP OF WALL, FIRE SAFE JOINTS AND PENETRATIONS AND MINERAL WOOL INSULATION.
  REF DTL'S: 3, 4 & 9/A-14.2
- X — NEW (1) HOUR RATED STAIR WALL: 2X WOOD STUDS AT 16" O/C WITH 5/8" TYPE 'X' GYP. BOARD TYPICAL BOTH SIDES. PROVIDE MINERAL WOOL FIBER INSULATION AT STUD SPACE.

GENERAL NOTES

1. REFER TO SHEET A-1.1 & A-1.3 FOR WALL LAYOUT LOCATING DIMENSIONS, DOOR AND WINDOW SYMBOLS, MILLWORK REFERENCE SYMBOLS, ETC.
2. REFER TO SHEETS A-6.1 AND A-6.2 FOR ADDITIONAL EXTERIOR WALL INFORMATION.
3. SEE FINISH LEGEND SHEET A-4.1 FOR MOISTURE BARRIER COATING REQUIRED IN LIEU OF BELOW SLAB VAPOR BARRIER.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
5. REFER TO DETAILS 1 & 11/A-14.2 FOR PENETRATIONS AT RATED CONDITIONS.

WALL TYPE KEY PLAN NOTES (FIRST FLOOR ONLY)

1. DENOTES SHEAR WALL LOCATION. ALL IN PLANAR FINISHES TO ALIGN AT ADJACENT NON-SHEAR WALLS. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATIONS.
2. STRUCTURAL REINFORCING SUPPORT AT NEW DOOR LOCATION, SEE STRUCTURAL DRAWINGS.
3. LINE OF SECOND FLOOR ABOVE.
4. EXISTING STRUCTURAL COLUMN.

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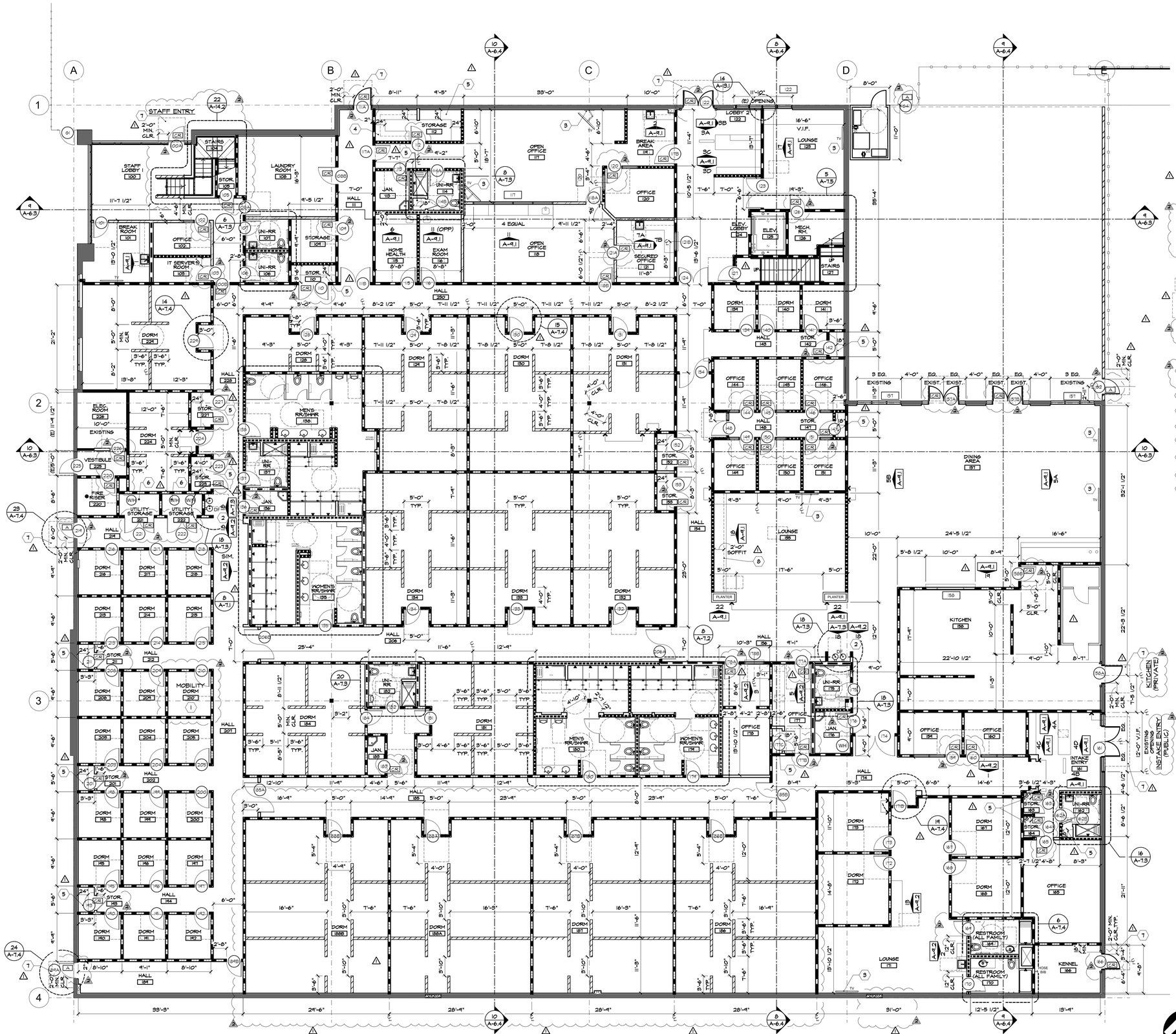
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A-1.0



GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH U.N.O.
2. SEE STRUCTURAL DRAWINGS FOR ALL STUD FRAMING AND CONNECTION DETAILS.
3. PATCH AND REPAIR ALL EXISTING WALLS AS REQUIRED TO RECEIVE NEW FINISHES.
4. STORE ANY UNUSED DOOR AND HARDWARE SETS AS DIRECTED BY THE GENERAL CONTRACTOR.
5. SEE EGRESS PLAN SHEET EX-1 FOR LOCATION OF TACTILE EXIT SIGNS.
6. SEE SHEET A-1.0 FOR WALL TYPES, WALL LEGEND AND ELEVATION INFORMATION.
7. NEW ELEVATORS SHALL BE PROVIDED WITH PHASE I EMERGENCY RECALL OPERATION AND PHASE II EMERGENCY IN CAR OPERATION IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 6, ELEVATOR SAFETY ORDERS.
8. ELEVATOR MACHINE ROOM SHALL HAVE SAME FIRE RATING AS THE ELEVATOR SHAFT.
9. STANDBY POWER IS REQUIRED FOR ELEVATOR PER CALIFORNIA CODE OF REGULATIONS, TITLE 8.
10. REFER TO FIRST FLOOR WALL TYPE PLAN SHEET A-1.0 FOR WALL CONSTRUCTION INFORMATION.
11. REFER TO STRUCTURAL DRAWINGS FOR SHEAR WALLS AND OTHER INFORMATION.
12. REFER TO DETAIL 8/A-14.2 FOR TYPICAL BACKING AT WOOD WALL CONDITIONS AND REFER TO DETAIL 12/A-13.1 FOR TYPICAL BACKING AT METAL STUD CONDITIONS.
13. DESIGNATED MOBILITY DORM ROOMS SHALL COMPLY WITH CBC 11B-224.8.1 AND TABLE 11B-224.2. THESE ROOMS SHALL BE FULLY COMPLIANT.
    a. ACCESSIBLE ROUTE FROM BUILDING ENTRY TO ROOM DOOR
    b. 60" DIAMETER TURNING CIRCLE
    c. SHARED AMENITIES
    d. CONNECTED BATHROOMS OR ACCESS TO COMPLIANT COMMON USE / PUBLIC USE FACILITIES

LEGEND

30"X48" OR 60"X60" CLR. MANUVERING SPACE AT DOORS.

CR CARD READER AT DOOR(S)

A ALARM AT DOOR

FLOOR PLAN NOTES

1. DESIGNATED "MOBILITY" SINGLE DORM ROOM TO COMPLY WITH CBC SEC. 11B-224.8. REFER TO GENERAL NOTE NUMBER 13 FOR ADDITIONAL INFORMATION.
2. ADA DRINKING FOUNTAIN, SEE DETAIL 5/ACC-3.
3. LOCATION OF WALL MOUNTED FLAT SCREEN TV, PROVIDE NECESSARY BACKING AT WALL PER DETAIL 12/A-13.1.
4. CLOTHING SHELF AND POLE, SEE DETAIL 20/A-12.1.
5. ADJUSTABLE SHELVING IN STORAGE CLOSET, SEE DETAIL 5/A-12.1, TYP. SEE PLAN FOR SHELVING CONFIGURATION PER CLOSET.
6. WATER HEATER, SEE PLUMBING DRAWINGS. PROVIDE SEISMIC BRACING (TIES) PER CBC REQUIREMENTS.
7. MANEUVERING SPACE AT ACCESSIBLE DOOR.
8. LINE OF SOFFIT ABOVE.

FIRST FLOOR - CONSTRUCTION FLOOR PLAN

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

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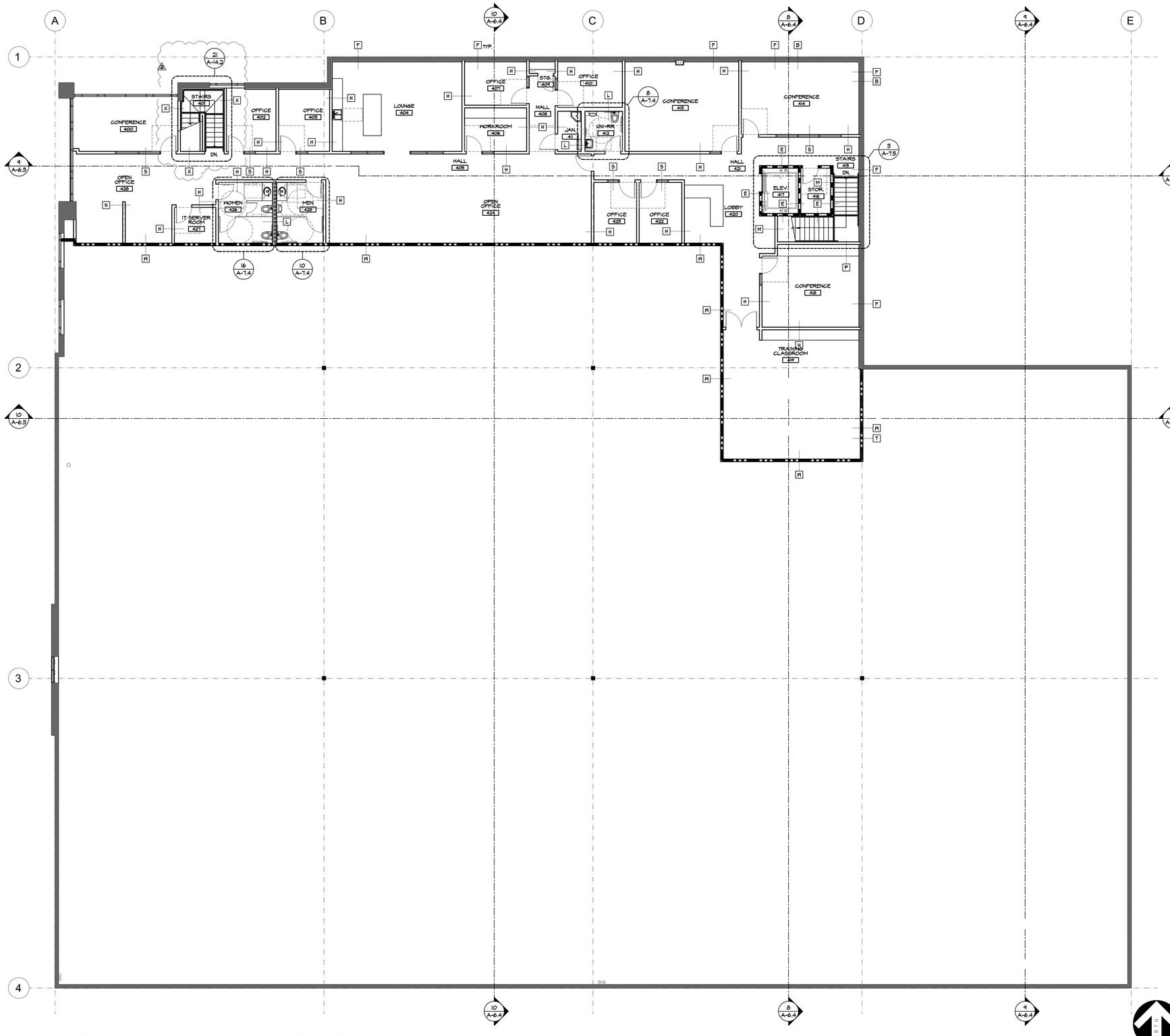
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A-1.1



SECOND FLOOR - WALL TYPE KEY PLAN

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

WALL LEGEND

NOTE: LEGEND APPLIES TO FIRST AND SECOND FLOOR. NOT ALL WALL TYPES APPEAR ON EITHER FLOOR.

- A — EXISTING EXTERIOR STOREFRONT OR GLAZING TO REMAIN.
- B — EXISTING WALL TO REMAIN.
- C — NEW EXTERIOR GLAZING SEE ELEVATION, SCHEDULE AND DETAILS
- D — PREFABRICATED COOLER WALL
- E — REF DTL'S: 3, 5 & 7/A-7.2, UL DESIGN U314 — NEW ONE HOUR RATED ELEVATOR SHAFT WALL: 2X WOOD STUDS AT 16" O/C WITH 5/8" FIRECODE AT GYPSUM FIBEROCK PANELS WITH FINISHED JOINTS. PROVIDE MINERAL FIBER INSULATION AT STUD SPACE.
- F — REF DTL'S: 6, 7 & 9/A-14.1 — CONCRETE WALL-NON RATED FULL HEIGHT FURRING: 250S125-33 METAL STUDS AT 24" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD AT INTERIOR SPACE SIDE. EXTEND FURRING TO 6" ABOVE CEILING AT CEILING AREAS. WHERE NO CEILINGS EXISTS, PROVIDE STUD SPACING AT 16" O/C AND EXTEND TO UNDERSIDE OF ROOF DECK. PROVIDE R-11 (U.N.O.) THERMAL INSULATION WITHIN FURRING. DENSSHIELD SUBSTRATE AT WET/TILE AREAS
- G — REF DTL'S: 5/A-13.1 AND 1/A-14.3 — NEW (1) HOUR RATED PARTITION: 12'-0" H. 362S125-33 @ 16" O/C WITH 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP OF WALL AS REQUIRED. MINERAL WOOL INSULATION AND RATED MOISTURE RESISTANT GYP BOARD AT WET/TILE AREAS.
- H — REF DTL'S: 2, 4, 5 & 7/A-13.1 — NEW NON-RATED INTERIOR PARTITION: 12'-0" H. (UNDERSIDE OF 2ND FLOOR STRUCTURE AT FIRST FLOOR LOCATIONS) - 362S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD TYPICAL BOTH SIDES, UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP OF WALL AS REQUIRED. BATT INSULATION FOR SOUND. DENSSHIELD SUBSTRATE AT WET/TILE AREAS, SEE ELEVATION FOR TILE INSTALLATION METHOD.
- I — REF DTL'S: 2/A-13.1 AND 3/A-14.3 — NEW NON-RATED INTERIOR PARTITION: 12'-0" H. (UNDERSIDE OF 2ND FLOOR STRUCTURE AT FIRST FLOOR LOCATIONS) - 250S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD TYPICAL BOTH SIDES, UNLESS NOTED OTHERWISE. BATT INSULATION FOR SOUND. DENSSHIELD SUBSTRATE AT WET/TILE AREAS. SEE ELEVATION FOR TILE INSTALLATION METHOD.
- J — REF DTL'S: 5/A-13.1 AND 3/A-14.3 — NEW NON-RATED INTERIOR PARTITION TO UNDERSIDE OF ROOF AT SECOND FLOOR. 12'-0" H. - 362S125-33 METAL STUDS AT 24" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES AND BATT INSULATION FOR SOUND.
- K — REF DTL'S: 5/A-13.1 AND 1/A-14.3 — NEW NON-RATED INTERIOR PARTITION: 10'-0" H. - 250S125-33 METAL STUDS AT 16" O/C WITH DENSSHIELD SUBSTRATE AT WET/TILE AREAS, TYPICAL, UNLESS NOTED OTHERWISE. FINISH TOP OF WALL AS REQUIRED. BATT INSULATION FOR SOUND. SEE ELEVATION FOR TILE INSTALLATION METHOD.
- L — REF DTL: 4, 5 & 15/A-13.1 — NEW NON-RATED PLUMBING WALL: 600S125-33 METAL STUDS AT 16" O/C WITH (2) LAYER 5/8" TYPE "X" GYPSUM BOARD ONE SIDE. EXTEND TO 6" ABOVE CEILING. DENSSHIELD SUBSTRATE AT WET/TILE AREAS. (362S125-33 AT WALLS '6' AND 'G' LOCATIONS)
- M — REF DTL'S: 5/A-13.1 AND 1 & 6/A-14.3 — NEW (1) HOUR RATED INTERIOR PARTITION: 10'-0" H. 250S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP EDGE OF WALL AS REQUIRED. MINERAL WOOL BATT INSULATION.
- N — REF DTL: 5 & 10/A-14.2 — NEW NON-RATED LOW PARTITION: 4'-0" H. - 250S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES. PROVIDE PAINT GRADE MDF SHAPED TOP CAP AND SCHEDULED MARLITE PANELS FULL HEIGHT OF WALL WITH MANUFACTURER'S TRIM PIECES. PROVIDE KING POST SUPPORTS AT END OF WALLS AND INTERMEDIATE SUPPORTS PER DETAIL. PROVIDE ELECTRICAL CHASE FOR EMERGENCY/NIGHT LIGHTING AS SCHEDULED.
- O — REF DTL: 1, 2, 3/A-14.1 — NEW EXTERIOR TILT UP CONCRETE WALL IN-FILL; ALIGN WITH EXISTING ADJACENT.
- P — REF DTL'S: 1, 4 & 9/A-14.2, 10/A-14.3 — NEW (1) HOUR RATED FULL HEIGHT OCCUPANCY SEPARATION WALL: +/- 27'-0" H. TO UNDERSIDE OF EXISTING ROOF SHEATHING - 800S125-43 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE "X" GYPSUM BOARD TYPICAL BOTH SIDES. PROVIDE SLIP TRACK DEFLECTION TOP TRACK TOP OF WALL, FIRE SAFE JOINTS AND PENETRATIONS AND MINERAL WOOL INSULATION.
- Q — REF DTL'S: 5/A-13.1 AND 5/A-14.3 AER-0438 — NEW (1) HOUR RATED INTERIOR CORRIDOR PARTITION: 12'-0" H. - 362S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD TYPICAL BOTH SIDES, UNLESS NOTED OTHERWISE. FINISH EXPOSED TOP OF WALL AS REQUIRED. MINERAL WOOL BATT INSULATION. DESSHEILD SUBSTRATE AT WET/TILE AREAS. SEE ELEVATION FOR TILE INSTALLATION METHOD.
- R — REF DTL'S: 4/A-13.1 SIM, 5/A-13.1 — NON RATED PLUMBING WALL FURRING: 362S125-33 METAL STUDS AT 16" O/C WITH 5/8" TYPE 'X' GYPSUM BOARD OR DENSSHIELD SUBSTRATE AT WET/TILE AREAS. EXTEND FULL HEIGHT OF WALL.
- S — REF DTL'S: 2 & 3/A-10.3 — NEW GLAZING AT GYP. BOARD WALL, SEE ELEVATION.
- T — REF DTL'S: 14 & 15/A-14.2 13/A-14.3 — NEW (1) HOUR RATED STRUCTURAL 2X WOOD STUD SHEAR WALL, SEE STRUCTURAL DRAWINGS FOR SPECIFICATIONS. INSTALL 5/8" TYPE 'X' GYPSUM BOARD OVER PLYWOOD AND OPPOSITE SIDE FOR (1) HOUR RATED ASSEMBLY. PROVIDE MINERAL WOOL INSULATION, FIRE SAFE JOINTS AND PENETRATIONS. ALIGN FINISH SUBSTRATES AT IN PLANE LOCATIONS.
- U — REF DTL'S: 14/A-14.2 SIM 15/A-14.2 SIM — NEW NON-RATED STRUCTURAL 2X WOOD STUD SHEAR WALL, SEE STRUCTURAL DRAWINGS FOR SPECIFICATIONS. INSTALL 5/8" TYPE 'X' GYPSUM BOARD OVER PLYWOOD AND OPPOSITE SIDE WALL ASSEMBLY. PROVIDE SOUND BATT INSULATION FOR SOUND. ALIGN FINISH SUBSTRATES AT IN PLANE LOCATIONS.
- V — EXISTING INTERIOR PARTITION TO REMAIN. PATCH/REPAIR AND PREPARE FOR SCHEDULED FINISH. REPAIR RATED CONDITIONS, FIRE SAFE JOINTS AND PENETRATIONS TO LIKE-NEW CONDITION WHERE REQUIRED.
- W — REF DTL'S: 3, 4 & 9/A-14.2 — NEW (1) HOUR RATED FULL HEIGHT OCCUPANCY SEPARATION WALL: +/- 15'-0" H. TO UNDERSIDE OF ROOF STRUCTURE ABOVE (FROM SECOND FLOOR AT 13'-6" A.F.F.) - 600S125-33 METAL STUDS AT 16" O/C WITH (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD BOTH SIDES. PROVIDE SLIP TRACK DEFLECTION TOP TRACK TOP OF WALL, FIRE SAFE JOINTS AND PENETRATIONS AND MINERAL WOOL INSULATION.
- X — NEW (1) HOUR RATED STAIR WALL: 2X WOOD STUDS AT 16" O/C WITH 5/8" TYPE 'X' GYP. BOARD TYPICAL BOTH SIDES. PROVIDE MINERAL WOOL FIBER INSULATION AT STUD SPACE.

GENERAL NOTES

1. REFER TO SHEET A-1.1 & A-1.3 FOR WALL LAYOUT LOCATING DIMENSIONS, DOOR AND WINDOW SYMBOLS, MILLWORK REFERENCE SYMBOLS, ETC.
2. REFER TO SHEETS A-6.1 AND A-6.2 FOR ADDITIONAL EXTERIOR WALL INFORMATION.
3. SEE FINISH LEGEND SHEET A-4.1 FOR MOISTURE BARRIER COATING REQUIRED IN LIEU OF BELOW SLAB VAPOR BARRIER.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
5. REFER TO DETAILS 1 & 11/A-14.2 FOR PENETRATIONS AT RATED CONDITIONS.

WALL TYPE KEY PLAN NOTES (FIRST FLOOR ONLY)

(SHEET A-1.1 ONLY)

1. DENOTES SHEAR WALL LOCATION. ALL IN PLANAR FINISHES TO ALIGN AT ADJACENT NON-SHEAR WALLS. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATIONS.
2. STRUCTURAL REINFORCING SUPPORT AT NEW DOOR LOCATION, SEE STRUCTURAL DRAWINGS.
3. LINE OF SECOND FLOOR ABOVE.
4. EXISTING STRUCTURAL COLUMN.

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FOR

FONTANA CALIFORNIA

TITLE

2ND FLOOR WALL TYPE KEY PLAN NOTES & LEGEND

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	1/8"=1'-0"

Sheet

A-1.2



GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH U.N.O.
2. SEE STRUCTURAL DRAWINGS FOR ALL STUD FRAMING AND CONNECTION DETAILS.
3. PATCH AND REPAIR ALL EXISTING WALLS AS REQUIRED TO RECEIVE NEW FINISHES.
4. STORE ANY UNUSED DOOR AND HARDWARE SETS AS DIRECTED BY THE GENERAL CONTRACTOR.
5. SEE EGRESS PLAN SHEET EX-1 FOR LOCATION OF TACTILE EXIT SIGNS.
6. SEE SHEET A-1.2 FOR WALL TYPES, WALL LEGEND AND ELEVATION INFORMATION.
7. NEW ELEVATORS SHALL BE PROVIDED WITH PHASE I EMERGENCY RECALL OPERATION AND PHASE II EMERGENCY IN CAR OPERATION IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 6, ELEVATOR SAFETY ORDERS.
8. ELEVATOR MACHINE ROOM SHALL HAVE SAME FIRE RATING AS THE ELEVATOR SHAFT.
9. STANDBY POWER IS REQUIRED FOR ELEVATOR PER CALIFORNIA CODE OF REGULATIONS, TITLE 8.

LEGEND

- 30"X48" OR 60"X60" CLR. MANUVERING SPACE AT DOORS.
- CR — CARD READER AT DOOR(S)
- A — ALARM AT DOOR

FLOOR PLAN NOTES

1. LOCATION OF WALL MOUNTED FLAT SCREEN TV, PROVIDE NECESSARY BACKING AT WALL PER DETAIL 12/A-13.1.
2. ADJUSTABLE SHELVING IN STORAGE CLOSET, SEE DETAIL 5/A-12.1, TYP. SEE PLAN FOR SHELVING CONFIGURATION PER CLOSET.
3. TYPICAL MANEUVERING SPACE AT ACCESSIBLE DOOR
4. TYPICAL MANEUVERING SPACE AT APPLIANCE OR COUNTER

SECOND FLOOR - CONSTRUCTION FLOOR PLAN

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

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FOR

FONTANA
CALIFORNIA

TITLE

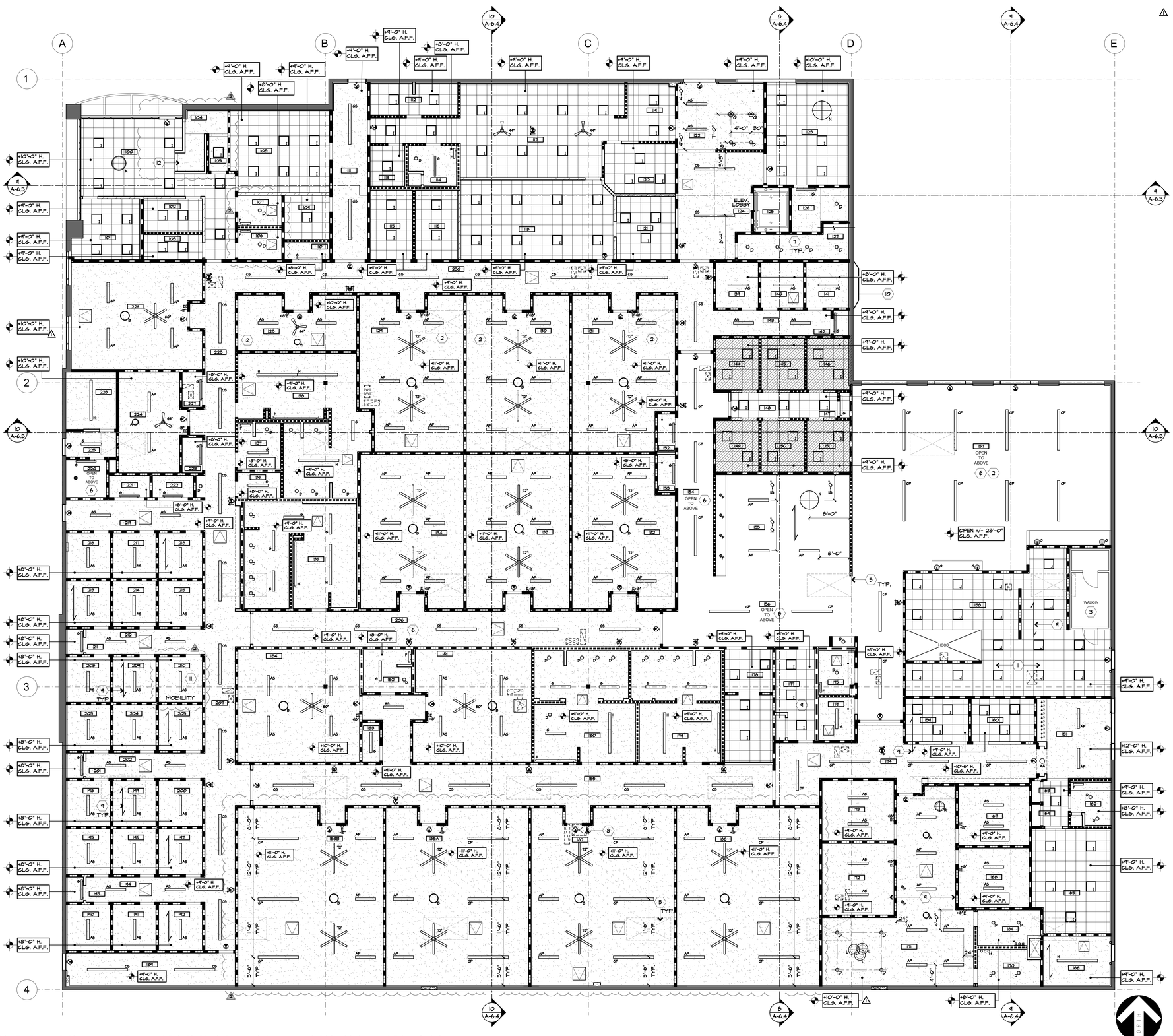
2ND FLOOR CONSTRUCTION FLOOR PLAN, NOTES & LEGEND

Revisions	By	Da
1 PC CORR 1/BID ISSUE 1	DAE	4/29
2 PC CORR 2 / ADD 2	MFM	6/12/

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	1/8"=1'-0"

Sheet

A-1.3



FIRST FLOOR - REFLECTED CEILING PLAN

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

CEILING LEGEND

- NEW 2' X 2' SUSPENDED T-BAR GRID AND ACOUSTICAL PANEL SYSTEM. SEE GENERAL NOTE 1 & 8, PLAN NOTE #1.
- NEW JOISTED GYPSUM BOARD CEILING, HEIGHT AS NOTED ON PLAN, U.N.O.
- HATCH PATTERN INDICATES FIBERGLASS SOUND INSULATION BATTS AT CEILING
- EXISTING SKYLIGHT AT ROOF
- CEILING JOIST LOCATION, SEE STRUCTURAL DRAWINGS
- AP or AS — 4 FT. LED LINEAR PENDANT (P) OR SURFACE MOUNT (S)
- BP or BS — 6 FT. LED LINEAR PENDANT (P) OR SURFACE MOUNT (S)
- CP or CS — 8 FT. LED LINEAR PENDANT (P) OR SURFACE MOUNT (S)
- AA — 12" FLUSH MOUNT CEILING LIGHT
- D — 4" LED DOWNLIGHT, DAMP & RATED OPTION AVAILABLE
- E — LED NIGHT LIGHT, 18" A.F.F.
- F F — 2 FT. LED STRIP SURFACE MOUNT, CEILING OR WALL PER PLAN
- G G — 4 FT. LED STRIP SURFACE MOUNT, CEILING OR WALL PER PLAN
- H H — 8 FT. LED STRIP SURFACE MOUNT, CEILING OR WALL PER PLAN
- I — 2'x2' LED RECESSED LIGHT FIXTURE
- I — 2'x2' LED RECESSED FLAT PANEL KITCHEN FIXTURE
- K — LED DRUM PENDANT, 34" DIA
- L — LED (3) LIGHT RING PENDANT, 24" DIA, EACH FIXTURE
- M — LED WALL SCONCE, 24" WIDE
- N — LED ECHO PENDANT, 44" DIA.
- O — LED METAL WALL SCONCE WITH WIRE CAGE, 12" DIA. SHADE
- P — LED CYLINDER PENDANT, 6" DIA. x 12" HIGH
- Q — LED CHICAGO PENDANT, 12" METAL DIA. SHADE
- R — LED DRUM PENDANT, 28" DIA.
- S — LED INDUSTRIAL PENDANT, 3" DIA. x 15" HIGH
- 44" — CEILING FAN - 44" DIA, 3 BLADE
- 60" — CEILING FAN - 60" DIA, 6 BLADE
- 72" — CEILING FAN - 72" DIA, 6 BLADE
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW AS INDICATED, CEILING MTD.
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW AS INDICATED, WALL MTD. IN ALL AREAS WITHOUT CEILINGS.
- 24" x 24" - FLUSH ACCESS PANEL
- 30" x 30" - FLUSH ACCESS PANEL
- O_A — 14" DIAMETER SOLATUBE INTERIOR FLOOR TO CEILING = 10'-0" A.F.F. INTERIOR FLOOR TO ROOF = +/- 27'-0" - 29'-0" A.F.F.
- O_B — 21" DIAMETER SOLATUBE INTERIOR FLOOR TO CEILING = 11'-0" A.F.F. INTERIOR FLOOR TO ROOF = +/- 27'-0" - 29'-0" A.F.F.

GENERAL CEILING NOTES

1. SUSPENDED T-BAR CEILING IS NEW AS INDICATED BY CEILING LEGEND, HEIGHT AS INDICATED ON PLAN. PROVIDE SEISMIC BRACING TYP. AT NEW SYSTEMS PER DETAIL 23/A-13.1. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR LIGHTING, SWITCHING, CIRCUITING ETC. SPECIFICATIONS.
2. PROVIDE NEW LIGHTING PER ARCHITECT'S DRAWINGS. PROVIDE LIGHT FIXTURE SUPPORT PER DETAIL 25/A-13.1.
3. LIGHTS, HVAC REGISTERS, ETC. SHALL BE LOCATED PER THE ARCHITECT'S DRAWINGS, CONFLICTS OR OMISSIONS SHALL BE BROUGHT THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION. SEE ELECTRICAL ENGINEERING DRAWINGS FOR SPECIFICATIONS, CIRCUITING, SWITCHING, ETC. REFER TO MECHANICAL ENGINEERING DRAWINGS FOR HVAC, EQUIPMENT DUCTING, ETC. REFER TO KITCHEN CONSULTANT DRAWINGS FOR KITCHEN RELATED EQUIPMENT, DUCTING, ETC.
4. VENTILATION TO BE PROVIDED PER CBC SECTION 1203. REFER TO MECHANICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE CONTINUOUS WALL ANGLE AT ALL WALLS THAT PENETRATE THE CEILING GRID PER DETAIL 17 & 20/A-13.1.
6. ALL GYPSUM BOARD CEILINGS HEIGHTS TO BE LOCATED AS NOTED ON PLAN PER DETAIL 15/A-13.1.
7. SPRINKLER HEADS SHALL BE CENTERED IN ACOUSTIC TILE.
8. PROVIDE NEW ARMSTRONG ACOUSTICAL CEILING TILE: #2082 ULTIMA HIGH NRC, 24"x24" WITH 9/16" SUPRAFINE GRID, COLOR WHITE.
9. SEE SHEET A-5 FOR SKYLIGHT SCOPE.
10. EXISTING FIRE SPRINKLER SYSTEM TO BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW OCCUPANCY GROUP AND PLAN CONFIGURATION UNDER SEPARATE PERMIT.
11. PROVIDE 30"x30" (1) HOUR RATED FLUSH ACCESS PANEL AT DORM AND LARGER ROOM AREAS. 24"x24" AT SMALLER ROOM LOCATIONS PER CMC AND CFC REQUIREMENTS. PANELS TO BE CSFM/UL LISTED WITH INSULATION GASKETS AND SELF CLOSING.
12. DESIGNATED MOBILITY DORM ROOMS SHALL COMPLY WITH CBC 11B-809.1.1. & 11B-809.4 INCLUDING PERMANENT WIRED DOOR SIGNAL DEVICE 11B-809.5.5.1 COMMUNICATION AND BUILDING FIRE ALARM VISUAL AND AUDIBLE SIGNALS IN UNIT WITH CONTROLS TO DEACTIVATE SIGNAL.

CEILING PLAN KEY NOTES

1. PROVIDE ARMSTRONG CEILING TILES, 24" X 24" X 5/8" VINYL FACE CEILING TILES WITH 15/16" PRELUDE GRID AT KITCHEN AREAS. COLOR: WHITE.
2. PROVIDE NEW INSULATION AT UNDERSIDE OF ROOF PER T24 ENERGY CALCULATIONS. GC TO PROVIDE INSTALLATION METHOD WITH WHITE SCRIM SHEET, TYPICAL THROUGHOUT U.N.O.
3. PREFABRICATED WALK-IN COOLER WITH PACKAGE LIGHTING.
4. EXISTING GYP. BOARD CEILING AT ELECTRICAL ROOM TO REMAIN. PATCH AND REPAIR TO LIKE-NEW CONDITION.
5. EXISTING SKYLIGHT LOCATION.
6. OPEN CEILING AREA TO STRUCTURE ABOVE.
7. STAIR DOWNLIGHTS IN SLOPED GYP. BOARD CEILING.
8. DUCT CHASE FROM RTU ABOVE, SEE MECHANICAL DRAWINGS.
9. JOISTS AT SUSPENDED T-BAR CEILING AREAS, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. REFER TO DETAIL 13/A-14.2 FOR RATED CEILINGS ASSEMBLY AT R2 TO B OCCUPANCY THIS AREA.
11. DESIGNATED MOBILITY DORM ROOM. SEE 24/A14.3 FOR ADDITIONAL INFORMATION.
12. GYP. BOARD SOFFIT AT STAIR OPENING, SEE 7C/A-6.3.

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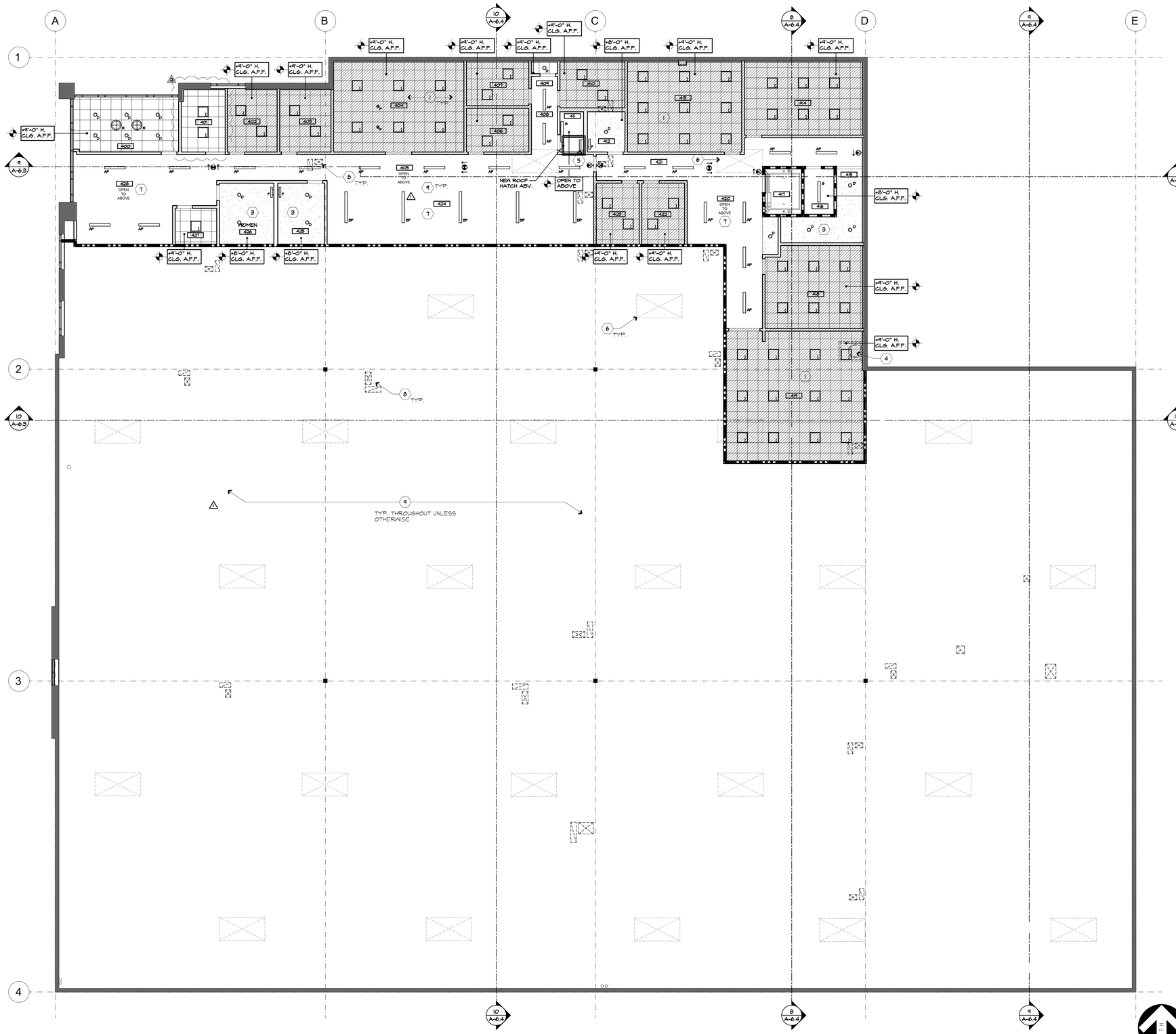
1ST FLOOR REFLECTED CEILING PLAN, NOTES & LEGEND

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

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Scale	1/8"=1'-0"

Sheet

A-2.1



SECOND FLOOR - REFLECTED CEILING PLAN

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

CEILING LEGEND

- NEW 2' X 2' SUSPENDED T-BAR GRID AND ACOUSTICAL PANEL SYSTEM. SEE GENERAL NOTE 1 & 8, PLAN NOTE #1.
- NEW JOISTED GYPSUM BOARD CEILING, HEIGHT AS NOTED ON PLAN, U.N.O.
- HATCH PATTERN INDICATES FIBERGLASS SOUND INSULATION BATTS AT CEILING
- EXISTING SKYLIGHT AT ROOF
- CEILING JOIST LOCATION, SEE STRUCTURAL DRAWINGS
- A — 4 FT. LED LINEAR PENDANT
- B — 6 FT. LED LINEAR PENDANT
- C — 8 FT. LED LINEAR PENDANT
- D — 4" LED DOWNLIGHT, DAMP & RATED OPTION AVAILABLE
- E — LED NIGHT LIGHT, 18" A.F.F.
- F F — 2 FT. LED STRIP SURFACE MOUNT, CEILING OR WALL PER PLAN
- G G — 4 FT. LED STRIP SURFACE MOUNT, CEILING OR WALL PER PLAN
- H H — 8 FT. LED STRIP SURFACE MOUNT, CEILING OR WALL PER PLAN
- J — 2'x2' LED RECESSED LIGHT FIXTURE
- J — 2'x2' LED RECESSED FLAT PANEL KITCHEN FIXTURE
- K — LED DRUM PENDANT, 34" DIA
- L — LED (3) LIGHT RING PENDANT, 24" DIA, EACH FIXTURE
- M — LED WALL SCONCE, 24" WIDE
- N — LED ECHO PENDANT, 44" DIA.
- O — LED METAL WALL SCONCE WITH WIRE CAGE, 12" DIA. SHADE
- P — LED CYLINDER PENDANT, 6" DIA. x 12" HIGH
- Q — LED CHICAGO PENDANT, 12" METAL DIA. SHADE
- R — LED DRUM PENDANT, 23" DIA.
- S — LED INDUSTRIAL PENDANT, 3" DIA. x 15" HIGH
- 44" — CEILING FAN - 44" DIA, 3 BLADE
- 60" — CEILING FAN - 60" DIA, 6 BLADE
- 72" — CEILING FAN - 72" DIA, 6 BLADE
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW AS INDICATED, CEILING MTD.
- ILLUMINATED EXIT SIGN WITH DIRECTIONAL ARROW AS INDICATED, WALL MTD. IN ALL AREAS WITHOUT CEILINGS.
- O_A — 14" DIAMETER SOLATUBE, INTERIOR FLOOR TO CEILING = 10'-0" A.F.F., INTERIOR FLOOR TO ROOF = +/- 27'-0" - 29'-0" A.F.F.
- O_B — 21" DIAMETER SOLATUBE, INTERIOR FLOOR TO CEILING = 11'-0" A.F.F., INTERIOR FLOOR TO ROOF = +/- 27'-0" - 29'-0" A.F.F.

GENERAL CEILING NOTES

1. SUSPENDED T-BAR CEILING IS NEW AS INDICATED BY CEILING LEGEND, HEIGHT AS INDICATED ON PLAN. PROVIDE SEISMIC BRACING TYP. AT NEW SYSTEMS PER DETAIL 23/A-13.1. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR LIGHTING, SWITCHING, CIRCUITING ETC. SPECIFICATIONS.
2. PROVIDE NEW LIGHTING PER ARCHITECT'S DRAWINGS. PROVIDE LIGHT FIXTURE SUPPORT PER DETAIL 25/A-13.1.
3. LIGHTS, HVAC REGISTERS, ETC. SHALL BE LOCATED PER THE ARCHITECT'S DRAWINGS, CONFLICTS OR OMISSIONS SHALL BE BROUGHT THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION. SEE ELECTRICAL ENGINEERING DRAWINGS FOR SPECIFICATIONS, CIRCUITING, SWITCHING, ETC. REFER TO MECHANICAL ENGINEERING DRAWINGS FOR HVAC, EQUIPMENT DUCTING, ETC. REFER TO KITCHEN CONSULTANT DRAWINGS FOR KITCHEN RELATED EQUIPMENT, DUCTING, ETC.
4. VENTILATION TO BE PROVIDED PER CBC SECTION 1203. REFER TO MECHANICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
5. PROVIDE CONTINUOUS WALL ANGLE AT ALL WALLS THAT PENETRATE THE CEILING GRID PER DETAIL 17 & 20/A-13.1.
6. ALL GYPSUM BOARD CEILINGS HEIGHTS TO BE LOCATED AS NOTED ON PLAN PER DETAIL 15/A-13.1.
7. SPRINKLER HEADS SHALL BE CENTERED IN ACOUSTIC TILE.
8. PROVIDE NEW ARMSTRONG ACOUSTICAL CEILING TILE: #2082 ULTIMA HIGH NRC, 24"x24" WITH 9/16" SUPRAFINE GRID, COLOR WHITE.
9. SEE SHEET A-5 FOR SKYLIGHT SCOPE.
10. EXISTING FIRE SPRINKLER SYSTEM TO BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW OCCUPANCY GROUP AND PLAN CONFIGURATION UNDER SEPARATE PERMIT.

CEILING PLAN KEY NOTES

1. PROVIDE ARMSTRONG CEILING TILES, 24"X24"X5/8" VINYL FACE CEILING TILES WITH 15/16" PRELUDE GRID. COLOR: WHITE.
2. LINEAR WALL FIXTURE TO BE SURFACE MOUNTED AT 10'-0" A.F.F.
3. GYP. BOARD CEILING.
4. EXISTING ROOF LADDER AND HATCH TO BE REMOVED AND RELOCATED TO NEW LOCATION. INFILL OPENING AT ROOF. SEE ROOF PLAN.
5. NEW ROOF HATCH AND LADDER LOCATION, SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
6. EXISTING SKYLIGHT LOCATION.
7. OPEN CEILING AREA TO STRUCTURE ABOVE.
8. DUCT CHASE FROM RTU ABOVE, SEE MECHANICAL DRAWINGS.
9. PROVIDE NEW INSULATION AT UNDERSIDE OF ROOF PER T24 ENERGY CALCULATIONS. GC TO PROVIDE INSTALLATION METHOD WITH WHITE SCRIM SHEET, TYPICAL THROUGHOUT UNLESS NOTED OTHERWISE.

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PROJECT

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FONTANA, CALIFORNIA 92337

FOR

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TITLE

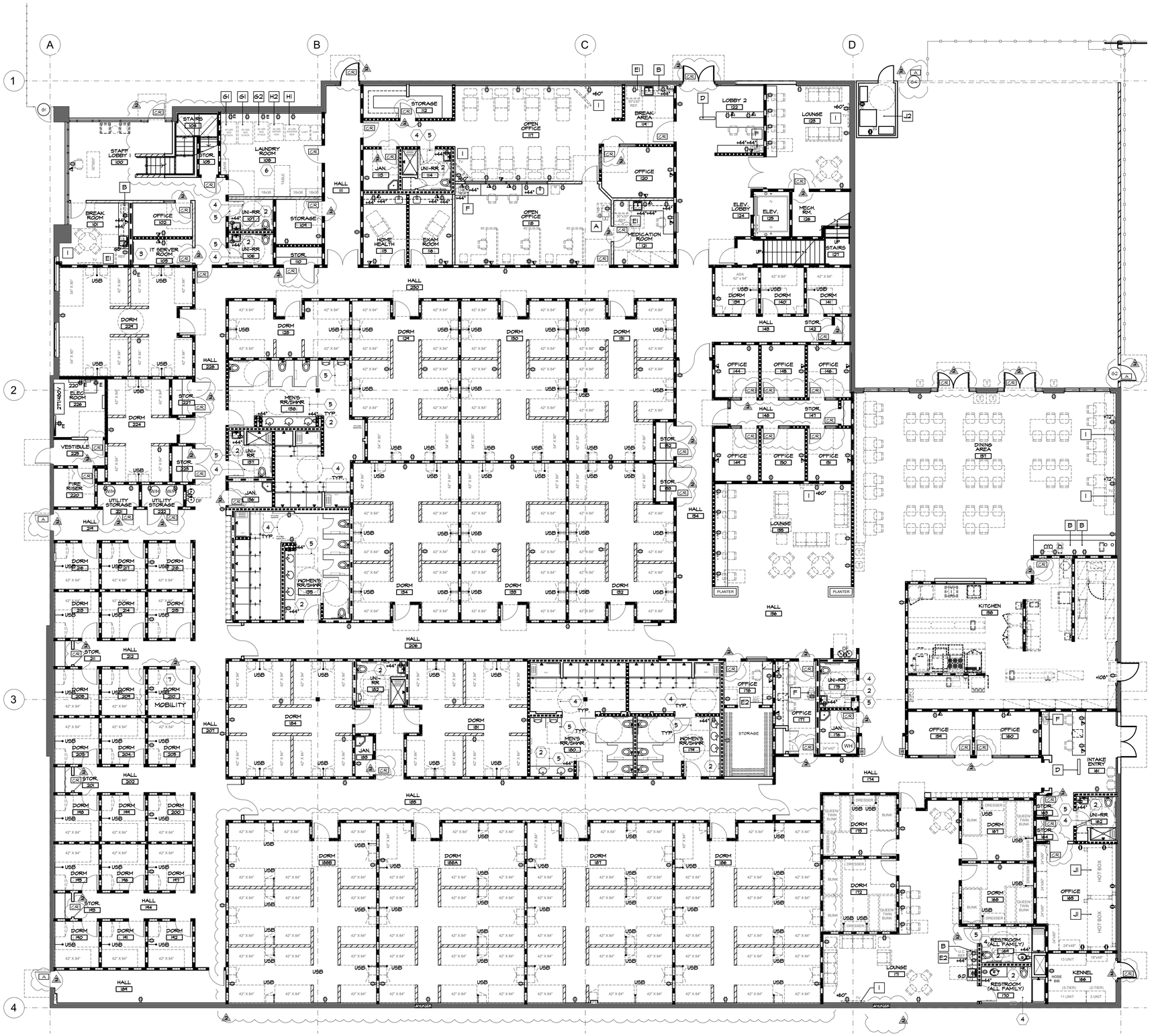
2ND FLOOR REFLECTED CEILING PLAN, NOTES & LEGEND

Revisions	By	Date
1 PC CORR 1/ BID ISSUE	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	1/8"=1'-0"

Sheet

A-2.2



FIRST FLOOR - OUTLET PLAN

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

OUTLET LOCATION LEGEND

- DUPLEX WALL RECEPTACLE @ +18" A.F.F. (U.N.O)
- DEDICATED DUPLEX WALL RECEPTACLE @ +18" A.F.F. (U.N.O)
- DEDICATED 220V. DUPLEX WALL RECEPTACLE @ 18" A.F.F. (U.N.O.)
- DOUBLE DUPLEX WALL RECEPTACLE @ 18" A.F.F. (U.N.O.)
- DEDICATED DOUBLE DUPLEX WALL RECEPTACLE @ 18" A.F.F. (U.N.O.)
- USB — USB CHARGING PORT, SEE ELEVATION 12/A-10.1 FOR LOCATION AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- COMBINATION TEL./DATA WALL RECEPTACLE @ +18" A.F.F. (U.N.O)
- TV — FLAT SCREEN TV CLOCK OUTLET AND DATA CONDUIT.
- CR — 3/4" CONDUIT ONLY UP INTO CEILING SPACE FOR CARD READER DOOR RELEASE WIRING. ACCESS CONTROL SHALL BE A DEFERRED SUBMITTAL. SEE SHEET CS-1.
- A — SECURITY ALARM
- J — J-BOX LOCATION

GENERAL OUTLET LOCATION NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR POWER AND CONDUIT REQUIREMENTS.
2. PROVIDE ELECTRICAL AND TEL/DATA OUTLETS AS SHOWN ON PLAN. ALL DISCREPANCIES SHALL BE BROUGHT THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF WORK.
3. SEE DEMOLITION PLAN FOR RECEPTACLES TO BE REMOVED.
4. WHERE RECEPTACLES ARE REMOVED SAFELY TERMINATE ELECTRICAL AT NEAREST JUNCTION BOX AND TEL/DATA BACK TO PUNCHDOWN BOARD.
5. ALL FURNITURE SHOWN IS N.I.C. AND IS LOCATED FOR REFERENCE ONLY.
6. ALL FACE PLATES SHALL BE IN SAME COLOR AND STYLE. CONFIRM COLOR TO BE WHITE.
7. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR ELECTRICAL SPECIFICATIONS.
8. REFER TO A-1.0 FOR WALL RATING CONSTRUCTION TYPE.
9. DESIGNATED MOBILITY DORM ROOMS SHALL COMPLY WITH CBC 11B-809.1.1 - 11B-809.4 CBC 11B-809.5.1 - 11B-809.5.4 FOR FIRE ALARM SYSTEMS AND COMMUNICATION SYSTEMS. PROVIDE HARD WIRED DOOR BELL BUTTON OR SWITCH PER CBC 11B-809.5.5 AT ROOM ENTRY DOOR.

OUTLET LOCATION PLAN KEY NOTES

1. LOCATION OF ELECTRICAL SUB-PANEL, SEE ELECTRICAL DRAWINGS.
2. WALL MOUNTED HAND DRYER LOCATION, SEE ENLARGED RESTROOM PLAN 8/A-9.1 AND ELECTRICAL DRAWINGS.
3. PROVIDE FULL HT. X 4'-0" W. X 3/4" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD. PAINT TO MATCH ADJACENT WALL. MOUNT AT TOP EDGE OF CEILING.
4. 60" CLEAR DIAMETER ADA TURNING RADIUS, TYPICAL.
5. 30" X 48" ADA CLEAR FLOOR AREA.
6. AT LEAST (1) WASHER AND (1) DRYER SHALL BE ACCESSIBLE AND COMPLY WITH 2025 CBC SECTION 11B-611.
7. DESIGNATED MOBILITY DORM ROOM. REFER TO GENERAL NOTE NUMBER 9 FOR ADDITIONAL INFORMATION AND REQUIREMENTS AND 24 / A-14.3.

EQUIPMENT LEGEND (OUTSIDE OF KITCHEN)

- A — COPIER (N.I.C.) LOCATION, 120V STANDARD OUTLET
- B — MICROWAVE OVEN (N.I.C.) LOCATION, 120V STANDARD OUTLET
- C — DISHWASHER: PROVIDE FRIGIDAIRE, #FFBD2420US, ADA COMPLIANT, STAINLESS STEEL FINISH.
- D — METAL DETECTOR: N.I.C. 120V. STANDARD OUTLET
- E1 — FULL SIZE REFRIGERATOR: N.I.C. 120V. STANDARD OUTLET
- E2 — UNDERCOUNTER REFRIGERATOR: N.I.C. 120V. STANDARD OUTLET
- F — PRINTER (N.I.C.) LOCATION: 120V. STANDARD OUTLET AND DATA CONDUIT
- G1 — CLOTHES WASHER AND DRYER STACKED UNITS (N.I.C.): PROVIDE DIRECT VENT TO O.S.A. G1 = 30 LB.; WASHER/DRYER 84.4"W x 51.3"D x 84.3"H
- G2 — G2 = 30 LB.; WASHER/DRYER, 31.4"W x 45.5"D x 79.7"H
- H1 — CLOTHES WASHER AND DRYER NON-STACKED (N.I.C.): PROVIDE DIRECT VENT TO O.S.A. H1 = 30 LB WASHER, 31 5/16"W x 36 4/5"D x 49"H
- H2 — H2 = 30 LB DRYER, 31.5"W x 34.6"D x 69.4"H
- I — FLAT SCREEN TV MONITOR (N.I.C.), PROVIDE MOUNT BRACKET BACKING IN WALL (SEE WALL PLAN). PROVIDE CLOCK OUTLET AND DATA CONDUIT.
- J1 — HOT BOX (N.I.C.) LOCATION: PROVIDE (4) DEDICATE CIRCUITS FOR HEATER BOXES.
- J2 — HOT BOX (N.I.C.) LOCATION: PROVIDE (2) DEDICATE CIRCUITS FOR HEATER BOXES.

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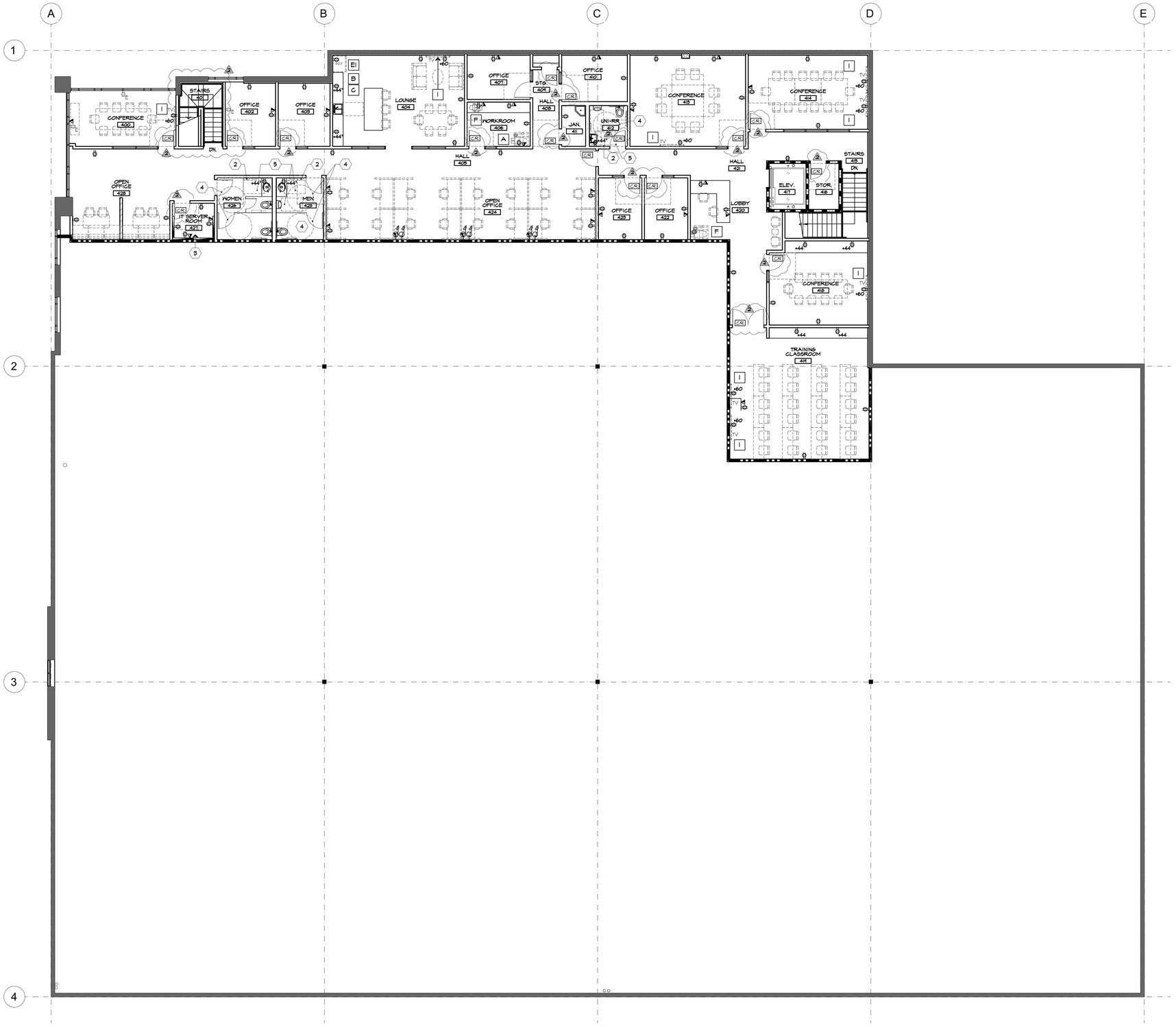
1ST FLOOR OUTLET PLAN, NOTES & LEGEND

Revisions	By	Date
1 PC CORR 1/BID ISSUE	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

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Sheet

A-3.1



SECOND FLOOR - OUTLET PLAN

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

OUTLET LOCATION LEGEND

- DUPLEX WALL RECEPTACLE @ +18" A.F.F. (U.N.O)
- DEDICATED DUPLEX WALL RECEPTACLE @ +18" A.F.F. (U.N.O)
- DEDICATED 220V. DUPLEX WALL RECEPTACLE @ 18" A.F.F. (U.N.O.)
- DOUBLE DUPLEX WALL RECEPTACLE @ 18" A.F.F. (U.N.O.)
- DEDICATED DOUBLE DUPLEX WALL RECEPTACLE @ 18" A.F.F. (U.N.O.)
- USB — USB CHARGING PORT, SEE ELEVATION 12/A-10.1 FOR LOCATION AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- COMBINATION TEL./DATA WALL RECEPTACLE @ +18" A.F.F. (U.N.O)
- TV — FLAT SCREEN TV CLOCK OUTLET AND DATA CONDUIT.
- CR — 3/4" CONDUIT ONLY UP INTO CEILING SPACE FOR CARD READER DOOR RELEASE WIRING. ACCESS CONTROL SHALL BE A DEFERRED SUBMITTAL. SEE SHEET CS-1.
- J — J-BOX LOCATION

GENERAL OUTLET LOCATION NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR POWER AND CONDUIT REQUIREMENTS.
2. PROVIDE ELECTRICAL AND TEL/DATA OUTLETS AS SHOWN ON PLAN. ALL DISCREPANCIES SHALL BE BROUGHT THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF WORK.
3. SEE DEMOLITION PLAN FOR RECEPTACLES TO BE REMOVED.
4. WHERE RECEPTACLES ARE REMOVED SAFELY TERMINATE ELECTRICAL AT NEAREST JUNCTION BOX AND TEL/DATA BACK TO PUNCHDOWN BOARD.
5. ALL FURNITURE SHOWN IS N.I.C. AND IS LOCATED FOR REFERENCE ONLY.
6. ALL FACE PLATES SHALL BE IN SAME COLOR AND STYLE. COLOR TO BE WHITE.
7. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR ELECTRICAL SPECIFICATIONS.
8. REFER TO A-1.2 FOR WALL RATING AND CONSTRUCTION TYPE.

OUTLET LOCATION PLAN KEY NOTES

1. LOCATION OF ELECTRICAL SUB-PANEL, SEE ELECTRICAL DRAWINGS.
2. WALL MOUNTED HAND DRYER LOCATION, SEE ENLARGED RESTROOM PLAN 8/A-4.1 AND ELECTRICAL DRAWINGS.
3. PROVIDE FULL HT. X 4'-0" W. X 3/4" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD. PAINT TO MATCH ADJACENT WALL. MOUNT TOP EDGE AT CEILING.
4. 60" CLEAR DIAMETER ADA TURNING RADIUS, TYPICAL.
5. 30" X 48" ADA CLEAR FLOOR AREA.

EQUIPMENT LEGEND

- A — COPIER (N.I.C.) LOCATION, 120V STANDARD OUTLET
- B — MICROWAVE OVEN (N.I.C.) LOCATION, 120V STANDARD OUTLET
- C — DISHWASHER: PROVIDE FRIDIDAIRE, #FFBD2420US, ADA COMPLIANT, STAINLESS STEEL FINISH.
- D — METAL DETECTOR: 120V. STANDARD OUTLET
- E1 — FULL SIZE REFRIGERATOR: 120V. STANDARD OUTLET
- E2 — UNDERCOUNTER REFRIGERATOR: 120V. STANDARD OUTLET
- F — PRINTER (N.I.C.) LOCATION: 120V. STANDARD OUTLET AND DATA CONDUIT
- G1 — CLOTHES WASHER AND DRYER STACKED UNITS (N.I.C.): PROVIDE DIRECT VENT TO O.S.A. G1 = 50 LB.; WASHER/DRYER 34.4"W x 51.3"D x 84.3"H
- G2 — G2 = 30 LB.; WASHER/DRYER, 31.4"W x 45.5"D x 79.7"H
- H1 — CLOTHES WASHER AND DRYER NON-STACKED (N.I.C.): PROVIDE DIRECT VENT TO O.S.A. H1 = 30 LB WASHER, 31 5/16"W x 36 4/5"D x 44"H
- H2 — H2 = 30 LB DRYER, 31.5"W x 39.6"D x 68.4"H
- I — FLAT SCREEN TV MONITOR (N.I.C.), PROVIDE MOUNT BRACKET BACKING IN WALL (SEE WALL PLAN). PROVIDE CLOCK OUTLET AND DATA CONDUIT.
- J1 — HOT BOX (N.I.C.) LOCATION: PROVIDE (4) DEDICATE CIRCUITS FOR HEATER BOXES.
- J2 — HOT BOX (N.I.C.) LOCATION: PROVIDE (2) DEDICATE CIRCUITS FOR HEATER BOXES.

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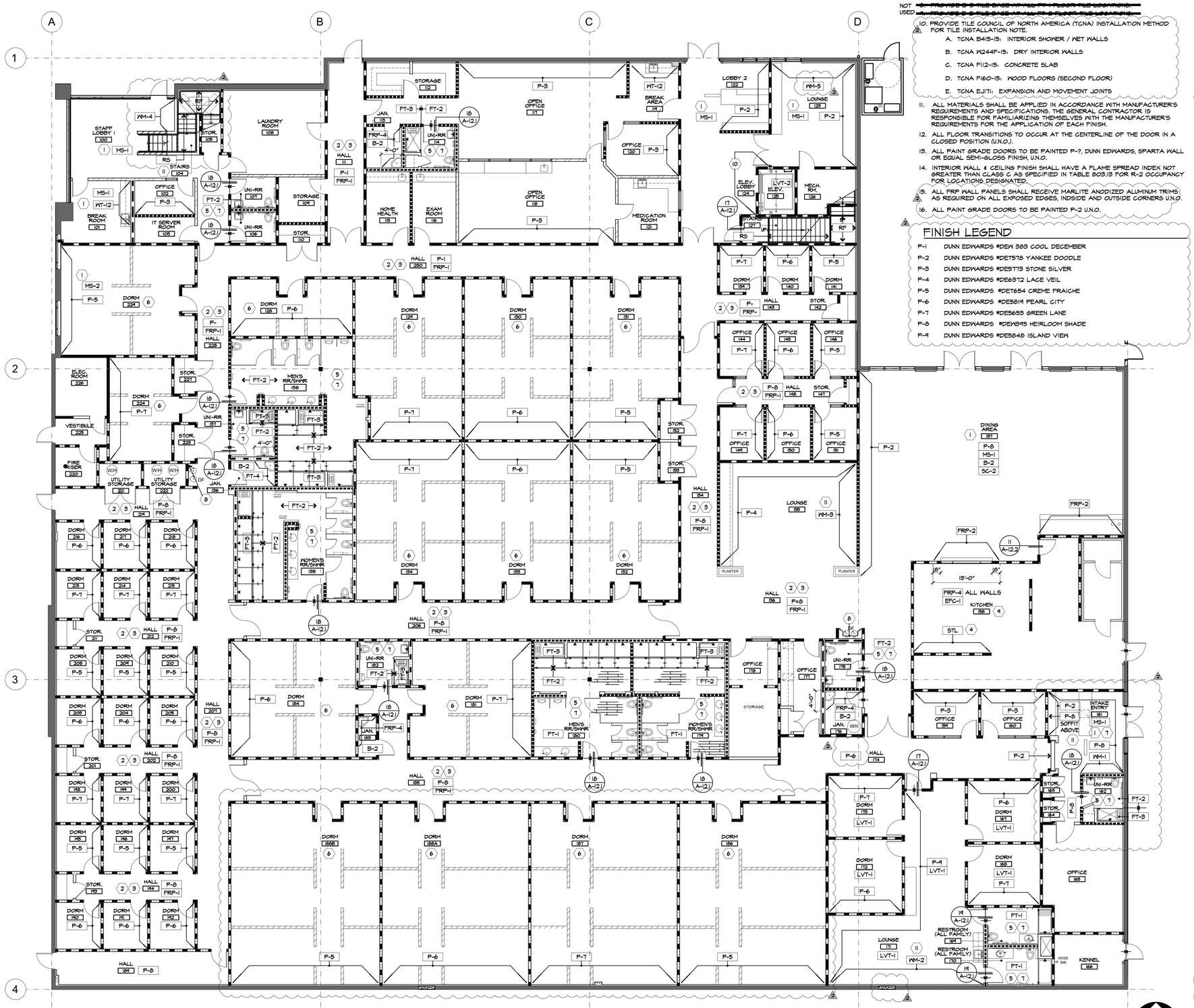
2ND FLOOR OUTLET PLAN, NOTES & LEGEND

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

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Sheet

A-3.2



FIRST FLOOR - FINISH PLAN

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

FINISH GENERAL NOTES

1. ALL CONCRETE FLOORS TO BE THOROUGHLY CLEANED AND REPAIRED OF ALL CRACKS. PROVIDE KRETUS (MVR) WATER PROOFING MEMBRANE AND PREPARE FOR NEW FLOOR FINISH, AS SPECIFIED.
2. PAINT ALL WALLS AND GYP. BOARD CEILING WITH (2) COATS OF P-1 PAINT SEMI-GLOSS U.N.O.
3. ALL WALLS TO RECEIVE (B-1) BASE U.N.O. SEE DETAIL 11/A-12.1
4. PROVIDE REDUCER STRIP AT FLOOR FINISH CHANGES, PER DETAILS AS NOTED.
5. ALL PAINTED WALLS TO BE PAINTED WITH DUNN EDWARDS, ACRI-WALL OR EQUAL, SEMI-GLOSS FINISH, U.N.O.
6. ALL GYPSUM BOARD CEILINGS TO BE PAINTED DUNN EDWARDS, ACRI-WALL OR EQUAL P-1, SEMI-GLOSS FINISH, U.N.O.
7. SEE MILLWORK ELEVATIONS FOR PLASTIC LAMINATE LOCATIONS.

NOT USED ~~5. PROVIDE B-2 TILE BASE AT ALL FT-1 FLOOR TILE LOCATIONS.~~
~~6. PROVIDE B-2 TILE BASE AT ALL FT-2 FLOOR TILE LOCATIONS.~~

10. PROVIDE TILE COUNCIL OF NORTH AMERICA (TCNA) INSTALLATION METHOD FOR TILE INSTALLATION NOTE.
    - A. TCNA B415-15: INTERIOR SHOWER / WET WALLS
    - B. TCNA W244F-15: DRY INTERIOR WALLS
    - C. TCNA F112-15: CONCRETE SLAB
    - D. TCNA F160-15: WOOD FLOORS (SECOND FLOOR)
    - E. TCNA EJ171: EXPANSION AND MOVEMENT JOINTS
11. ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE MANUFACTURER'S REQUIREMENTS FOR THE APPLICATION OF EACH FINISH.
12. ALL FLOOR TRANSITIONS TO OCCUR AT THE CENTERLINE OF THE DOOR IN A CLOSED POSITION (U.N.O.).
13. ALL PAINT GRADE DOORS TO BE PAINTED P-?, DUNN EDWARDS, SPARTA WALL OR EQUAL SEMI-GLOSS FINISH, U.N.O.
14. INTERIOR WALL & CEILING FINISH SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN CLASS C AS SPECIFIED IN TABLE 803.13 FOR R-2 OCCUPANCY FOR LOCATIONS DESIGNATED.
15. ALL FRP WALL PANELS SHALL RECEIVE MARLITE ANODIZED ALUMINUM TRIMS AS REQUIRED ON ALL EXPOSED EDGES, INDSIDE AND OUTSIDE CORNERS U.N.O.
16. ALL PAINT GRADE DOORS TO BE PAINTED P-2 U.N.O.

FINISH LEGEND

- P-1 DUNN EDWARDS #DEW 383 COOL DECEMBER
- P-2 DUNN EDWARDS #DET578 YANKEE DOODLE
- P-3 DUNN EDWARDS #DE5713 STONE SILVER
- P-4 DUNN EDWARDS #DE6312 LACE VEIL
- P-5 DUNN EDWARDS #DET654 CREME FRAICHE
- P-6 DUNN EDWARDS #DE5814 PEARL CITY
- P-7 DUNN EDWARDS #DE5653 GREEN LANE
- P-8 DUNN EDWARDS #DEW845 HEIRLOOM SHADE
- P-9 DUNN EDWARDS #DE5848 ISLAND VIEW

FINISH PLAN KEY NOTES

1. PROVIDE MECHO SHADES ON ALL EXTERIOR WINDOWS.
2. PROVIDE FRP-1 ON HALLWAY WALLS (111, 143, 148, 154, 185, 194, 202, 206, 207, 212, 219, 228, 230) AS INDICATED. INSTALL AT +48" ABOVE WALL BASE. PROVIDE ALL TRIMS J-CAP INSIDE CORNERS, AND OUTSIDE CORNERS, AS REQUIRED. SEE FINISH LEGEND.
3. PAINT WALLS ABOVE FRP-1 WITH (2) COATS PAINT.
4. PROVIDE STAINLESS STEEL FULL HEIGHT WALL PANELS WITH S.S. TRIMS AT COOKLINE IN KITCHEN 156.
5. PROVIDE SCHLUTER COVED BASE TRIM (B-3) IN ALL RESTROOMS BETWEEN FLOOR AND WALL TILE TRANSITION.
6. PROVIDE FRP-3 ON ALL LOW WALL PARTITIONS WITH SOLID SURFACE 55-2 CAP AT TOP OF LOW WALL, SEE DETAIL 8/A-12.1.
7. PROVIDE SCHLUTER TRIM AT ALL EXPOSED TILE EDGES U.N.O. JOLLY 5/16" ANODIZED ALUMINUM TRIM. PROVIDE CLEAN, STRAIGHT MITERED CORNERS. FILE AWAY ALL SHARP CORNERS AS REQUIRED.
8. PROVIDE WALL TILE AT DRINKING FOUNTAIN, REFER TO ELEVATION 10/A-9.2 FOR FINISHES.
9. INSTALL FRP-4 4'-0" X 8'-0" SHEETS ABOVE 6" COVED BASE. PAINT REMAINING WALLS ABOVE FRP P-1
10. REFER TO 10/A-9.2 FOR ELEVATOR FINISHES.
11. PROVIDE LEVEL 4 WALL FINISH AT ALL WALLS RECEIVING (XM) WALL MURAL. INSTALL PER MANUFACTURES DIRECTIONS. CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE INSTALLATION PROCESS, FINISH WALL SURFACE AND ALL ASSOCIATED LABOR AND PURCHASE OF MATERIALS AND TRIMS ASSOCIATED WITH THE REQUIRED INSTALLATION PROCESS.

FINISH LEGEND

- B-1 WALL BASE: JOHNSONITE 4" RUBBER BASE, COLOR: #63 BURNT UMBER
- B-2 WALL BASE: DAL TILE COLOR WHEEL CLASSIC 6x6 SANITARY COVED BASE, SLIM FOOT TILE, COLOR: ARCTIC WHITE.
- B-3 BASE: SCHLUTER COVE BASE, DILEX-AHKA ANODIZED ALUMINUM FINISH.
- B-4 BASE: STAINLESS STEEL 4" SLIM FOOT COVED BASE.
- SC-1 SEALED CONCRETE FLOORS: CLEAR COAT MATTE FINISH.
- SC-2 SEALED CONCRETE FLOORS: CLEAR GREASE AND ACID RESISTANT FINISH, HEALTH DEPT. APPROVED AQUA MIX PENETRATING SEALER OR EQUAL.
- EFC-1 EPOXY FLOOR COATING ⅛" TROWELED EPOXY FLOOR SYSTEM, COLOR: T.B.D. WITH 6" H. MIN. 3/8 SELF COVED BASE, SEE DETAIL 4/A-12.2. SUBMIT COLOR SAMPLE FOR ARCHITECT'S APPROVAL. CONTACT: CPS WEST, CRAIG HUNT, (909) 984-6100, craig@cps-west.com.
- LVT-1 LUXURY VINYL TILES, 6" X 48", SHAW CONTRACT TERRAIN II 20 MIL. STYLE #0454V, COLOR: PRUNE, ASHLAR INSTALLATION.
- LVT-2 LUXURY VINYL TILES, 6" X 48", SHAW CONTRACT, TERRAIN II 20 MIL. STYLE #0454V, COLOR: ELM, ASHLAR INSTALLATION.
- FT-1 DAL TILE, MOSAIC FLOOR TILE KEYSTONES COLOR BODY PORCELAIN MOSAIC TILE BLEND3 #DK16 HEXAGON 2"x2", GROUT: T.B.D.
- FT-2 DAL TILE, FLOOR TILE AGREASE, COLOR BODY PORCELAIN 8"x48" PLANK, STETSON AG13 STAGGERED INSTALLATION, GROUT: T.B.D.
- RS BURKE RUBBER FLOORING STAIR SYSTEM, ENDURA ROUND PROFILE UNI STEP TREAD AND RISER W/ V-1 STRIPE COLOR: TBD
- RF BURKE RUBBER FLOORING, ENDURA SOLID COLOR RUBBER TILES, ROUND PROFILE. COLOR: TBD
- SVT AHF SHEET VINYL 6" SELF COVE MIXED AND VARIEGATED COLOR FROST #1H62M003.
- WT-1 WALL TILE: DAL TILE 3x24 PORCELAIN BULLNOSE TILE OUTLANDER, PALAZZO DESIGN MARINE #0U55.
- WT-2 WALL TILE: DAL TILE, 12x24 PORCELAIN TILE OUTLANDER, PALAZZO DESIGN MARINE #0U55.
- WT-3 WALL TILE: DAL TILE 3x24 PORCELAIN BULLNOSE TILE OUTLANDER GRANDE DESIGN MARINE #0U55.
- WT-4 WALL TILE: DAL TILE 12x24 PORCELAIN TILE OUTLANDER GRANDE DESIGN MARINE #0U55.
- WT-5 WALL TILE: DAL TILE, 9-3/4"x9-3/4" PORCELAIN TILE "OH MY DOG" VENDOR #617154, ITEM ##9999-48I943.
- WT-6 WALL TILE: AMERICAN OLEAN, 18x24" GLAZED CERAMIC TILE, COLOR STORY, ICE WHITE #0025.
- WT-7 WALL TILE: AMERICAN OLEAN, 18x24" GLAZED CERAMIC TILE, COLOR STORY, BLACK #0044.
- WT-8 WALL TILE: AMERICAN OLEAN, 8"x24" GLAZED CERAMIC TILE COLOR GREEN APPLE #0076.
- WT-9 WALL TILE: AMERICAN OLEAN, 1/2"x12" GLAZED JOLLY TILE TRIM, COLOR STORY, BLACK #0044.
- WT-10 WALL TILE: AMERICAN OLEAN, 18x24" GLAZED CERAMIC TILE, COLOR STORY, RESTORE #0058.
- WT-11 WALL TILE: DAL TILE 12 X 24 GLAZED CERAMIC TILE LUMINIQUE WEAVE WALL, NAVY KI84. INSTALL IN A SUBWAY PATTERN.
- WT-12 WALL TILE: EMSER TILE, 6 X 12 WALL TILE, EXHALE CIELO. INSTALL IN A BRICK PATTERN.
- WT-13 WALL TILE: EMSER TILE, 12"x24" PORCELAIN TILE, KUDOS #SKU F23KUDOIN1224P, COLOR: INDIGO MATTE FINISH, SUBWAY INSTALLATION PATTERN, GROUT: T.B.D.
- WT-14 WALL TILE: EMSER TILE, 3"x12" PORCELAIN BULLNOSE TILE KUDOS #SKU F23KUDOIII1224P, COLOR: INDIGO MATTE FINISH, GROUT: T.B.D.
- FRP-1 MARLITE PANELS: SYMMETRIX WITH SANI-COAT BEAD BOARD WHITE PANEL WITH WHITE GROUT, #SS100 B62.
- FRP-2 MARLITE PANELS: SYMMETRIX HORIZONTAL SUBWAY PANELS. GROUT SS916.
- FRP-3 MARLITE PANELS: ARTIZAN MAX WOODGRAIN PANELS 2043 MAX OLIVEWOOD MATT FINISH.
- FRP-4 MARLITE STANDARD WALL PANELS: S100S WHITE. PROVIDE MARLITE WHITE DIVISION BAR #M365 BETWEEN PANELS AS REQUIRED
- STL STAINLESS STEEL FULL HEIGHT WALL PANELS.
- XM-1 WALL MURAL: COMMERCIAL GRADE PROSTIK TYPE II CANVAS MATT FINISH, CUSTOM SIZE WALL MURAL BY (MAGICMURALS.COM), ABSTRACT GRAY MARBLING MURAL ID #INS-0000000008. INSTALL PER MFR. INSTRUCTIONS.
- XM-2 WALL MURAL: COMMERCIAL GRADE VERSA GRIP TYPE II, CUSTOM SIZE WALL MURAL BY (MAGICMURALS.COM), HANGING OUT MURAL ID #MIAC520M2. INSTALL PER MFR. INSTRUCTIONS.
- XM-3 WALL MURAL: VERSA GRIP CLASS A FIRE RATED CUSTOM SIZE WALL MURAL BY (MURALSYOURWAY.COM), HAMMOCK IN TREES RANGIROA MURAL ID SKU#MIABFI003. INSTALL PER MFR INSTRUCTIONS.
- XM-4 WALL MURAL: PRO STIK TYPE II CLASS A FIRE RATED CUSTOM SIZE WALL MURAL BY (MAGICMURALS.COM), SEA SKIES SUNSET MURAL ID #TOT-0024187521. INSTALL PER MFR INSTRUCTIONS.
- XM-5 WALL MURAL: VERSA GRIP CLASS A FIRE RATED CUSTOM SIZE WALL MURAL BY (MURALSYOURWAY.COM), LANDSCAPE 7908 ID SKU#MLSYCY1008. INSTALL PER MFR INSTRUCTIONS.
- SS-1 SOLID SURFACE: WILSONART, ICE STARLIGHT.
- SS-2 SOLID SURFACE: CORIAN, CIRRUS WHITE.
- SS-3 SOLID SURFACE: HIMAC, BLACK #5022.
- PL-1 PLASTIC LAMINATE: WILSONART STUDIO TEAK, #1960K-18 LINEARITY FINISH.
- PL-2 PLASTIC LAMINATE: WILSONART, NATURAL RECON #1996-38 FINE VELVET FINISH.
- PL-3 PLASTIC LAMINATE: WILSONART, WHITE TIGRES, #4783-60 MATT FINISH.
- PL-4 PLASTIC LAMINATE: WILSONART, WHITE CYPRESS #1976K-12 MATT FINISH
- PL-5 PLASTIC LAMINATE: WILSONART, CATALINA # 13042-60 MATT FINISH.
- PL-6 PLASTIC LAMINATE: WILSONART, CHESAPEAKE ANTIQUE WOOD #1Y0268 VERTICAL SURFACE GRADE, SOFT GRAIN FINISH
- TP-1 SCRANTON TOILET PARTITIONS. SOLID HDPE PLASIC, FLOOR MOUNTED, OVERHEAD BRACED. COLOR: CHARCOAL GREY ORANGE PEAL FINISH.
- SP-1 SCRANTON SHOWER AND DRESSING ROOM PARTITON SYSTEM, SOLID HDP PLASTIC. FLOOR AND CEILING MOUNTED WITH INTEGRAED HEAD RAIL, CURTAIN AND HOOKS FOR BOTH SHOWER UNIT AND DRESSING RM . COLOR: CHARCOAL GREY ORANGE PEAL FINISH.
- MS-1 MECHO SHADE: SOHO COLLECTION 140 SERIES (5% OPEN) COLOR: 1419 SULLIVAN 9 SILVER BIRCH OUTSIDE MOUNT.
- MS-2 MECHO SHADE: CLASSIC BLACKOUT 0700 SERIES COLOR: 0702 LIGHT GREY OUTSIDE MOUNT.

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PROJECT

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TITLE

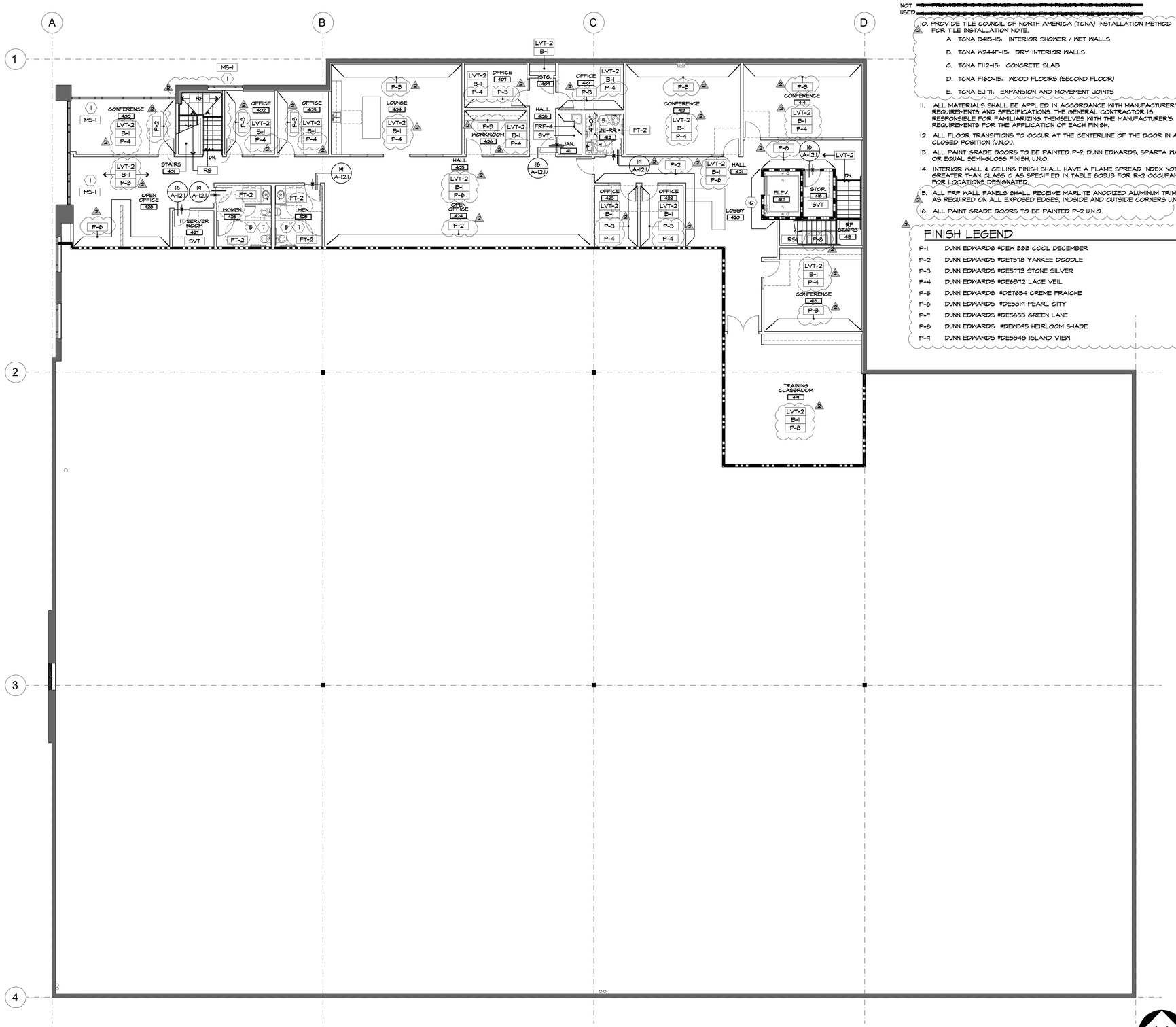
1ST FLOOR FINISH PLAN, NOTES, LEGEND & SPECS

Revisions	By	Date
1 FC CORR 1/BID ISSUE 1	DAE	4/29/26
2 FC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	1/8"=1'-0"

Sheet

A-4.1



SECOND FLOOR - FINISH PLAN

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

FINISH GENERAL NOTES

1. ALL CONCRETE FLOORS TO BE THOROUGHLY CLEANED AND REPAIRED OF ALL CRACKS. PROVIDE KRETUS (MVR) WATER PROOFING MEMBRANE AND PREPARE FOR NEW FLOOR FINISH, AS SPECIFIED.
2. PAINT ALL WALLS AND GYP. BOARD CEILING WITH (2) COATS OF P-1 PAINT SEMI-GLOSS U.N.O.
3. ALL WALLS TO RECEIVE (B-1) BASE U.N.O. SEE DETAIL 11/A-12.1
4. PROVIDE REDUCER STRIP AT FLOOR FINISH CHANGES, PER DETAILS AS NOTED.
5. ALL PAINTED WALLS TO BE PAINTED WITH DUNN EDWARDS, ACRI-WALL OR EQUAL, SEMI-GLOSS FINISH, U.N.O.
6. ALL GYPSUM BOARD CEILINGS TO BE PAINTED DUNN EDWARDS, ACRI-WALL OR EQUAL P-1, SEMI-GLOSS FINISH, U.N.O.
7. SEE MILLWORK ELEVATIONS FOR PLASTIC LAMINATE LOCATIONS.

NOT USED ~~5. PROVIDE B-3 TILE BASE IN ALL FT-1 FLOOR TILE LOCATIONS.~~

NOT USED ~~6. PROVIDE B-3 TILE BASE IN ALL FT-2 FLOOR TILE LOCATIONS.~~

10. PROVIDE TILE COUNCIL OF NORTH AMERICA (TCNA) INSTALLATION METHOD FOR TILE INSTALLATION NOTE.
    - A. TCNA B415-15: INTERIOR SHOWER / WET WALLS
    - B. TCNA W244F-15: DRY INTERIOR WALLS
    - C. TCNA F112-15: CONCRETE SLAB
    - D. TCNA F160-15: WOOD FLOORS (SECOND FLOOR)
    - E. TCNA EJ171: EXPANSION AND MOVEMENT JOINTS
11. ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE MANUFACTURER'S REQUIREMENTS FOR THE APPLICATION OF EACH FINISH.
12. ALL FLOOR TRANSITIONS TO OCCUR AT THE CENTERLINE OF THE DOOR IN A CLOSED POSITION (U.N.O.).
13. ALL PAINT GRADE DOORS TO BE PAINTED P-7, DUNN EDWARDS, SPARTA WALL OR EQUAL SEMI-GLOSS FINISH, U.N.O.
14. INTERIOR WALL & CEILING FINISH SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN CLASS C AS SPECIFIED IN TABLE 803.13 FOR R-2 OCCUPANCY FOR LOCATIONS DESIGNATED.
15. ALL FRP WALL PANELS SHALL RECEIVE MARLITE ANODIZED ALUMINUM TRIMS AS REQUIRED ON ALL EXPOSED EDGES, INDSIDE AND OUTSIDE CORNERS U.N.O.
16. ALL PAINT GRADE DOORS TO BE PAINTED P-2 U.N.O.

FINISH LEGEND

P-1	DUNN EDWARDS #DEN 383 COOL DECEMBER
P-2	DUNN EDWARDS #DET578 YANKEE DOODLE
P-3	DUNN EDWARDS #DE5713 STONE SILVER
P-4	DUNN EDWARDS #DE6372 LACE VEIL
P-5	DUNN EDWARDS #DET654 CREME FRAICHE
P-6	DUNN EDWARDS #DE5814 PEARL CITY
P-7	DUNN EDWARDS #DE5653 GREEN LANE
P-8	DUNN EDWARDS #DEN345 HEIRLOOM SHADE
P-9	DUNN EDWARDS #DE5848 ISLAND VIEW

FINISH PLAN KEY NOTES

1. PROVIDE MECHO SHADES ON ALL EXTERIOR WINDOWS.
2. PROVIDE FRP-1 ON HALLWAY WALLS (111, 143, 148, 154, 185, 194, 202, 206, 207, 212, 219, 228, 230) AS INDICATED. INSTALL AT +48" ABOVE WALL BASE. PROVIDE ALL TRIMS J-CAP INSIDE CORNERS, AND OUTSIDE CORNERS, AS REQUIRED. SEE FINISH LEGEND.
3. PAINT WALLS ABOVE FRP-1 WITH (2) COATS PAINT.
4. PROVIDE STAINLESS STEEL FULL HEIGHT WALL PANELS WITH S.S. TRIMS AT COOKLINE IN KITCHEN 158.
5. PROVIDE SCHLUTER COVED BASE TRIM (B-3) IN ALL RESTROOMS BETWEEN FLOOR AND WALL TILE TRANSITION.
6. PROVIDE FRP-3 ON ALL LOW WALL PARTITIONS WITH SOLID SURFACE 55-2 CAP AT TOP OF LOW WALL, SEE DETAIL 8/A-12.1.
7. PROVIDE SCHLUTER TRIM AT ALL EXPOSED TILE EDGES U.N.O. JOLLY 5/16" ANODIZED ALUMINUM TRIM. PROVIDE CLEAN, STRAIGHT MITERED CORNERS. FILE AWAY ALL SHARP CORNERS AS REQUIRED.
8. PROVIDE WALL TILE AT DRINKING FOUNTAIN, REFER TO ELEVATION 18/A-4.2 FOR FINISHES.
9. INSTALL FRP-4 4'-0" X 8'-0" SHEETS ABOVE 6" COVED BASE. PAINT REMAINING WALLS ABOVE FRP P-1
10. REFER TO 10/A-4.2 FOR ELEVATOR FINISHES.
11. PROVIDE LEVEL 4 WALL FINISH AT ALL WALLS RECEIVING (XM) WALL MURAL. INSTALL PER MANUFACTURES DIRECTIONS. CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE INSTALLATION PROCESS, FINISH WALL SURFACE AND ALL ASSOCIATED LABOR AND PURCHASE OF MATERIALS AND TRIMS ASSOCIATED WITH THE REQUIRED INSTALLATION PROCESS.

FINISH LEGEND

B-1	WALL BASE: JOHNSONITE 4" RUBBER BASE, COLOR: #63 BURNT UMBER
B-2	WALL BASE: DAL TILE, COLOR WHEEL CLASSIC 6x6 SANITARY COVED BASE, SLIM FOOT TILE, COLOR: ARCTIC WHITE.
B-3	BASE: SCHLUTER COVE BASE, DILEX-AHKA ANODIZED ALUMINUM FINISH.
B-4	BASE: STAINLESS STEEL 4" SLIM FOOT COVED BASE.
SC-1	SEALED CONCRETE FLOORS: CLEAR COAT MATTE FINISH.
SC-2	SEALED CONCRETE FLOORS: CLEAR GREASE AND ACID RESISTANT FINISH, HEALTH DEPT. APPROVED AQUA MIX PENETRATING SEALER OR EQUAL.
EFC-1	EPOXY FLOOR COATING 1/8" TROWELED EPOXY FLOOR SYSTEM, COLOR: T.B.D. WITH 6" H. MIN. 3/8 SELF COVED BASE, SEE DETAIL 4/A-12.2. SUBMIT COLOR SAMPLE FOR ARCHITECT'S APPROVAL. CONTACT: CPS WEST, CRAIG HUNT, (909) 484-6100, craig@cps-west.com.
LVT-1	LUXURY VINYL TILES, 6" X 48", SHAW CONTRACT TERRAIN II 20 MIL. STYLE #0454V, COLOR: PRINE, ASHLAR INSTALLATION.
LVT-2	LUXURY VINYL TILES, 6" X 48", SHAW CONTRACT, TERRAIN II 20 MIL. STYLE #0454V, COLOR: ELM, ASHLAR INSTALLATION.
FT-1	DAL TILE, MOSAIC FLOOR TILE KEYSTONES COLOR BODY PORCELAIN MOSAIC TILE BLENDS #DK16 HEXAGON 2"x2"; GROUT: T.B.D.
FT-2	DAL TILE, FLOOR TILE, ACREAGE, COLOR BODY PORCELAIN 8"x48" PLANK, STETSON AC13 STAGGERED INSTALLATION, GROUT: T.B.D.
RS	BURKE RUBBER FLOORING STAIR SYSTEM, ENDURA ROUND PROFILE UNI STEP TREAD AND RISER W V-1 STRIPE COLOR; TBD
RF	BURKE RUBBER FLOORING, ENDURA SOLID COLOR RUBBER TILES, ROUND PROFILE. COLOR: TBD
SVT	AHF SHEET VINYL 6' SELF COVE MIXED AND VARIEGATED COLOR FROST #IHS2M003.
WT-1	WALL TILE: DAL TILE 3x24 PORCELAIN BULLNOSE TILE OUTLANDER, PALAZZO DESIGN MARINE #0U55.
WT-2	WALL TILE: DAL TILE, 12x24 PORCELAIN TILE OUTLANDER, PALAZZO DESIGN MARINE #0U55.
WT-3	WALL TILE: DAL TILE 3x24 PORCELAIN BULLNOSE TILE OUTLANDER GRANDE DESIGN MARINE #0U55.
WT-4	WALL TILE: DAL TILE 12x24 PORCELAIN TILE OUTLANDER GRANDE DESIGN MARINE #0U55.
WT-5	WALL TILE: DAL TILE, 9-3/4"x9-3/4" PORCELAIN TILE "OH MY DOS" VENDOR #61754, ITEM #9999-48|943.
WT-6	WALL TILE: AMERICAN OLEAN, 18x24" GLAZED CERAMIC TILE, COLOR STORY, ICE WHITE #0025.
WT-7	WALL TILE: AMERICAN OLEAN, 18x24" GLAZED CERAMIC TILE, COLOR STORY, BLACK #0044.
WT-8	WALL TILE: AMERICAN OLEAN, 8"x24" GLAZED CERAMIC TILE COLOR GREEN APPLE #0076.
WT-9	WALL TILE: AMERICAN OLEAN, 1/2"x12" GLAZED JOLLY TILE TRIM, COLOR STORY, BLACK #0044.
WT-10	WALL TILE: AMERICAN OLEAN, 18x24" GLAZED CERAMIC TILE, COLOR STORY, RESTORE #0058.
WT-11	WALL TILE: DAL TILE 12 X 24 GLAZED CERAMIC TILE LUMINIQUE WEAVE WALL, NAVY K184. INSTALL IN A SUBWAY PATTERN.
WT-12	WALL TILE: EMSER TILE, 6 X 12 WALL TILE, EXHALE GIELO. INSTALL IN A BRICK PATTERN.
WT-13	WALL TILE: EMSER TILE, 12"x24" PORCELAIN TILE, KUDOS #SKU F23KUDOINI224P, COLOR: INDIGO MATTE FINISH, SUBWAY INSTALLATION PATTERN, GROUT: T.B.D.
WT-14	WALL TILE: EMSER TILE, 3"x12" PORCELAIN BULLNOSE TILE KUDOS #SKU F23KUDOIIII224P, COLOR: INDIGO MATTE FINISH, GROUT: T.B.D.
FRP-1	MARLITE PANELS, SYMMETRIX WITH SANI-COAT BEAD BOARD WHITE PANEL WITH WHITE GROUT. #55100 B62.
FRP-2	MARLITE PANELS, SYMMETRIX HORIZONTAL SUBWAY PANELS. GROUT SS416.
FRP-3	MARLITE PANELS, ARTIZAN MAX WOODGRAIN PANELS 2049 MAX OLIVEWOOD MATT FINISH.
FRP-4	MARLITE STANDARD WALL PANELS, S1008 WHITE. PROVIDE MARLITE WHITE DIVISION BAR #M365 BETWEEN PANELS AS REQUIRED
STL	STAINLESS STEEL FULL HEIGHT WALL PANELS.
XM-1	WALL MURAL: COMMERCIAL GRADE PROSTIK TYPE II CANVAS MATT FINISH, CUSTOM SIZE WALL MURAL BY (MAGICMURALS.COM), ABSTRACT GRAY MARBLING MURAL ID #UNS-0000000000B. INSTALL PER MFR. INSTRUCTIONS.
XM-2	WALL MURAL: COMMERCIAL GRADE VERSA GRIP TYPE II, CUSTOM SIZE WALL MURAL BY (MAGICMURALS.COM), HANGING OUT MURAL ID #MMIAC52042. INSTALL PER MFR. INSTRUCTIONS.
XM-3	WALL MURAL: VERSA GRIP CLASS A FIRE RATED CUSTOM SIZE WALL MURAL BY (MURALSYOURWAY.COM), HAMMOCK IN TREES RANGIROA MURAL ID SKU#MMIABF1003. INSTALL PER MFR INSTRUCTIONS.
XM-4	WALL MURAL: PRO STIK TYPE II CLASS A FIRE RATED CUSTOM SIZE WALL MURAL BY (MAGICMURALS.COM), SEA SKIES SUNSET MURAL ID #FDT-0022187321. INSTALL PER MFR INSTRUCTIONS.
XM-5	WALL MURAL: VERSA GRIP CLASS A FIRE RATED CUSTOM SIZE WALL MURAL BY (MURALSYOURWAY.COM), LANDSCAPE 7403 ID SKU#MMLSYCY1003. INSTALL PER MFR INSTRUCTIONS.
SS-1	SOLID SURFACE: WILSONART, ICE STARUARIO.
SS-2	SOLID SURFACE: CORIAN, CIRRUS WHITE.
SS-3	SOLID SURFACE: HIMAC, BLACK #5022.
PL-1	PLASTIC LAMINATE: WILSONART STUDIO TEAK, #1960K-18 LINEARITY FINISH.
PL-2	PLASTIC LAMINATE: WILSONART, NATURAL RECON #7996-38 FINE VELVET FINISH.
PL-3	PLASTIC LAMINATE: WILSONART, WHITE TIGRES, #4783-60 MATT FINISH.
PL-4	PLASTIC LAMINATE: WILSONART, WHITE CYPRESS #7976K-12 MATT FINISH
PL-5	PLASTIC LAMINATE: WILSONART, CATALINA # 13092-60 MATT FINISH.
PL-6	PLASTIC LAMINATE: WILSONART, CHESAPEAKE ANTIQUE WOOD #Y026B VERTICAL SURFACE GRADE, SOFT GRAIN FINISH
TP-1	SCRANTON TOILET PARTITIONS. SOLID HDPE PLASIC, FLOOR MOUNTED, OVERHEAD BRACED. COLOR: CHARCOAL GREY ORANGE PEAL FINISH.
SP-1	SCRANTON SHOWER AND DRESSING ROOM PARTITON SYSTEM, SOLID HDP PLASTIC, FLOOR AND CEILING MOUNTED WITH INTEGRAED HEAD RAIL, CURTAIN AND HOOKS FOR BOTH SHOWER UNIT AND DRESSING RM . COLOR: CHARCOAL GREY ORANGE PEAL FINISH.
MS-1	MECHO SHADE: SOHO COLLECTION 190 SERIES (5% OPEN) COLOR: 1919 SULLIVAN 9 SILVER BIRCH OUTSIDE MOUNT.
MS-2	MECHO SHADE: CLASSIC BLACKOUT 0700 SERIES COLOR: 0702 LIGHT GREY OUTSIDE MOUNT.

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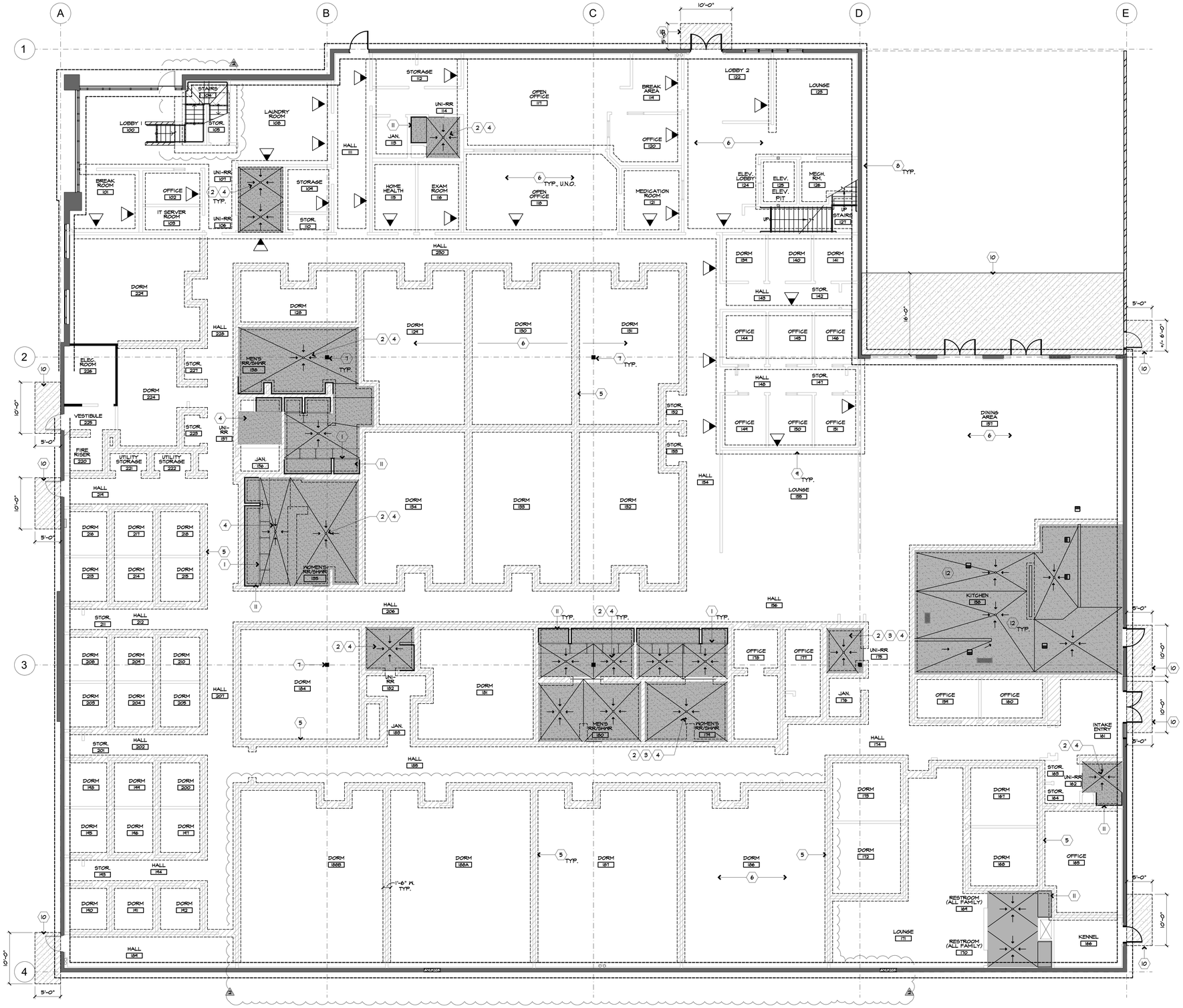
2ND FLOOR FINISH PLAN, NOTES, LEGEND & SPECS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	1/8"=1'-0"

Sheet

A-4.2



SLAB PLAN LEGEND

- CURB AREAS
- TRENCH DRAIN SEE PLUMBING DRAWINGS
- PLUMBING FIXTURE, SEE PLUMBING DRAWINGS
- NEW CONCRETE SLAB AREA
- AREA FLOOR DRAIN, SEE PLUMBING DRAWINGS
- DEPRESSED SLAB AREA AT TO RECEIVE TILE FLOOR OVER THICKSET MORTAR BASE, SEE DETAIL 24 / A-14.3
- RAISED CONCRETE CURB AREA +6" A.F.F. , SEE DETAIL 21-24 / A-14.3
- SHEAR WALL LOCATIONS, SEE STRUCTURAL DRAWINGS WITH POSTS AS OCCURS
- NEW CONCRETE FOOTING AT WALL, SEE STRUCTURAL DRAWINGS
- FLOOR SINK, SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 18" DIAMETER FLOOR RECESS AT DRAIN AT KITCHEN AREA WITH MINIMAL SLOPE

SLAB PLAN GENERAL NOTES

1. ALL LARGE CRACKS AND DEFICIENCIES @ SLAB TO BE PREPARED AS REQUIRED TO RECEIVE NEW FINISH AS SCHEDULED.
2. EXISTING CONCRETE SUBSTRATE SHALL BE PREPARED AS REQUIRED TO RECEIVE SCHEDULED FINISH. FINISHES SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TESTING / REMEDIATION AS MAY BE REQUIRED FOR ACCESSIBLE INSTALLATION.
3. INFILL SLAB PATCH BACK AT SAWCUT SLAB AREAS TO ACCOMMODATE NEW UTILITIES WASTE LINES, ETC. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING FOR ADDITIONAL LOCATION NOT SHOWN ON THIS PLAN.
4. REFER TO FINISH PLAN AND SPECIFICATIONS FOR FINISH MATERIALS AND SPECIFICATIONS ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
5. EXISTING CONCRETE SUBSTRATE TO BE PREPARED TO RECEIVE NEW SCHEDULED FINISH. NEW FINISHES TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TESTING / REMEDIATION REQUIRED FOR AN ACCEPTABLE INSTALLATION.
6. REFER TO PLUMBING DRAWINGS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
7. ALL AREAS SERVED BY FLOOR DRAINS SHALL SLOPE MINIMUM 1/4" SLOPE PER FOOT, TYPICAL, UNLESS NOTED OTHERWISE.
8. FINISH FLOOR CROSS DRAINS SHALL BE 1/8" PER FOOT, TYPICAL.
9. WALL HATCH/WALL TYPES NOT SHOWN HERE FOR CLARITY, SEE WALL PLANS FOR TYPES.
10. FIRST FLOOR AREAS ARE CONCRETE SLAB ON GRADE. SECOND FLOOR IS PLYWOOD SUBSTRATE. NOTE (1) HOUR RATED HORIZONTAL AREAS. BUILD UP SLOPE AS REQUIRED WITH MORTAR BASE FOR SLOPE.

SLAB PLAN KEY NOTES

1. NEW TRENCH DRAIN , SEE PLUMBING DRAWINGS.
2. NEW FLOOR DRAIN, SEE PLUMBING DRAWINGS.
3. NEW RECESSED SLAB.
4. NEW SLOPED SLAB TO DRAIN, MINIMUM 1/4" PER FOOT, TYPICAL.
5. NEW CONCRETE FOOTING AT WALL, SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. EXISTING CONCRETE SLAB THROUGHOUT TO REMAIN EXCEPT WHERE SHOWN TO BE REMOVED OR WHERE REQUIRED FOR UTILITY SAWCUT AREAS. PROVIDE SLAB PATCH BACK AT DEMOLISHED AREA, SEE STRUCTURAL DRAWINGS.
7. EXISTING CONCRETE PAD FOOTING AND STRUCTURAL COLUMN AS OCCURS.
8. EXISTING CONTINUOUS FOOTING AT EXTERIOR WALL, AS OCCURS.
9. NEW WOOD POST OR SHEAR WALL, AS OCCURS, NOTED BY SHEAR WALL SYMBOL. SEE STRUCTURAL DRAWINGS.
10. NEW SLAB ON GRADE REINFORCED CONCRETE LANDING / CONCRETE PAD. SEE SP-1.1 FOR ADDITIONAL INFORMATION.
11. NEW CONCRETE CURB AT SHOWER AREAS, SEE DETAIL 21/A-14.3.
12. MINIMAL 18" DIAMETER DEPRESSED SLAB AT FLOOR DRAIN TYPICAL AT KITCHEN AREA.

NOTE:

1. CONCRETE SLAB REMOVED FOR NEW UTILITIES SHALL BE REPLACED WITH NEW TO ALIGN AND MATCH EXISTING, SEE IRC STANDARD AND STRUCTURAL DRAWINGS. SEE STRUCTURAL DRAWINGS FOR TIE OF CONCRETE SLAB.

SLAB PLAN

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

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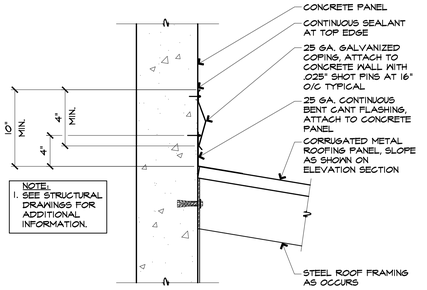
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SLAB PLAN

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

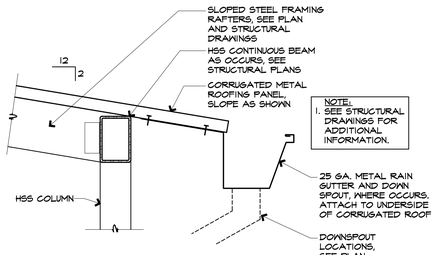
Sheet 1 A-4.3



FLASHING AT CONC. PANEL 21

SCALE: 1 1/2"=1'-0" (CMU WALL SIM.)

Flashing at Conc Panel.dwg



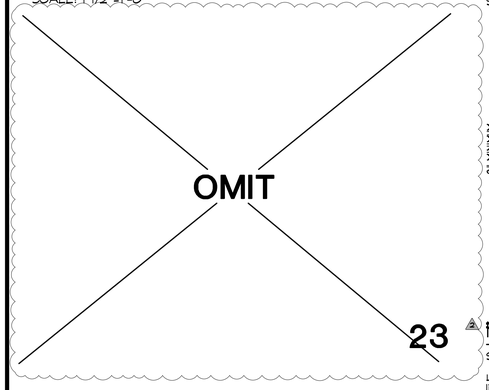
ENCLOSURE EAVE DETAIL 22

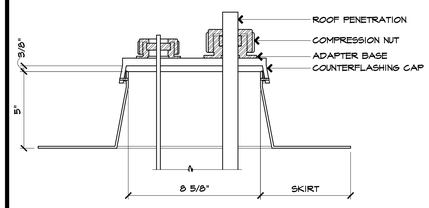
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Enclosure Eave Detail.dwg

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23

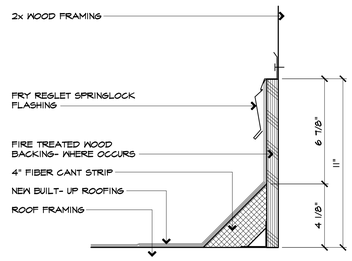




MULTI-FLASH ADAPTER DETAIL 24

SCALE: 3"=1'-0"

MLTIFLSHG-1.dwg
DIV-07
REV. 08-24-10

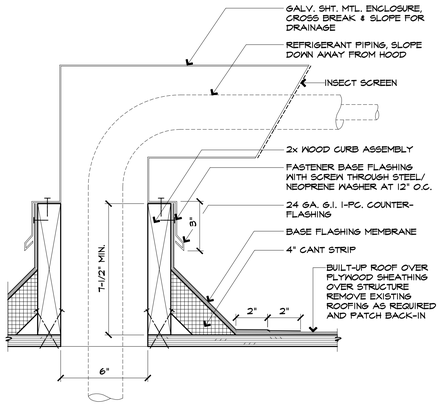


TYPICAL CANT STRIP

SCALE: 3"=1'-0"

TypicalCantStrip.dwg
DIV-07
REV. 08-24-10

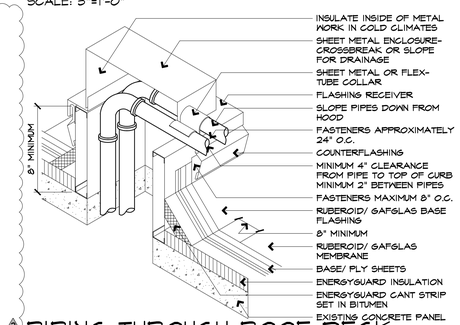
25



PIPE PENETRATION FLASHING & CURB 16

SCALE: 3"=1'-0"

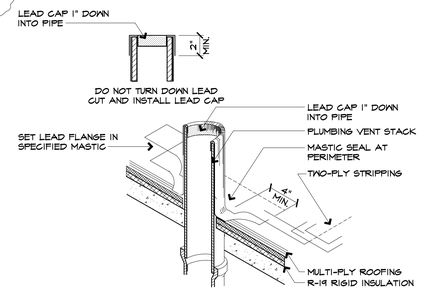
PipePenetrationFlashingCurb.dwg



PIPING THROUGH ROOF DECK 17

SCALE: NONE

PipingThroughRoofDeck.dwg
DIV-07
REV. 08-24-10

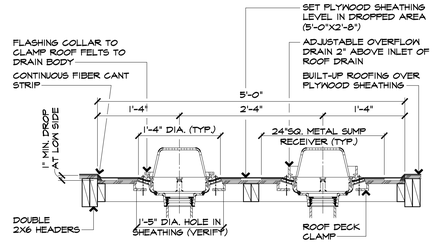


PLUMBING VENT FLASHING

SCALE: N.T.S.

PLMBG VENT FLSHG.dwg
DIV-07
REV. 08-24-10

18

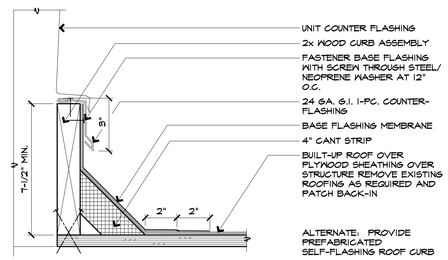


NOTE:
SEE PLUMBING DRAWINGS FOR SIZE OF DRAINS AND CONTINUATION OF DOWN SPOUTS. SEE STRUCTURAL FOR FRAMING.

ROOF DRAIN (EXISTING) 11

SCALE: 1" = 1'-0"

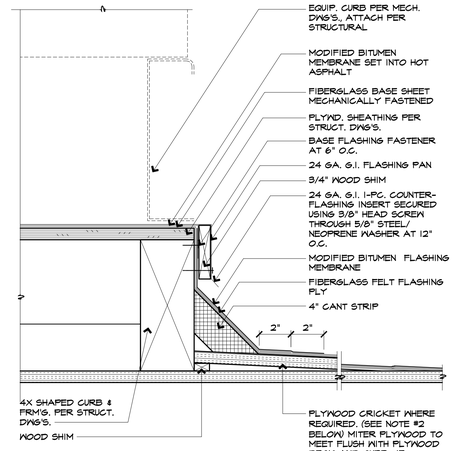
ROOFDRN.dwg
DIV-07
REV. 08-24-10



EXHAUST FAN CURB 12

SCALE: 3"=1'-0"

EXHCURB2.dwg
DIV-07
REV. 08-24-10

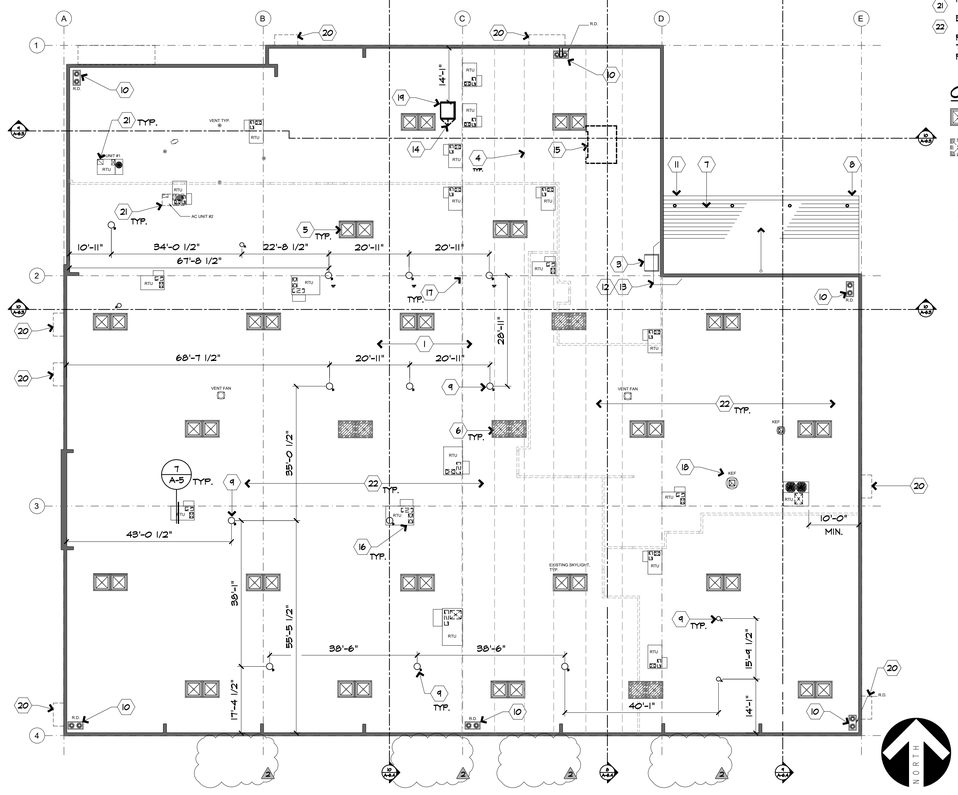


NOTES:
1. ANY SECUREMENT OF UNITS OR SUPPORTS INTO THE HORIZONTAL PLATFORM SURFACE SHALL BE THROUGH SOLID 1/4" NEOPRENE GASKET. APPLY ELASTOMERIC SEALANT ON UNDERSIDE AND TOP OF GASKET IMMMEDIATLY PRIOR TO INSTALLING BOLTS (BY OTHERS)
2. INSTALL PLYWOOD CRICKET ON HIGH SIDE OF PLATFORM 24" OR WIDER. MITER PLYWOOD CRICKET TO MEET FLUSH WITH DECK. PLATFORM SHALL BE RAISED AS NECESSARY TO EXTEND A MIN. 7-1/2" ABOVE THE CRICKET (WHERE REQUIRED)

EQUIPMENT PLATFORM 7

SCALE: 3"=1'-0"

EQPPLAT.dwg



GENERAL ROOF NOTES

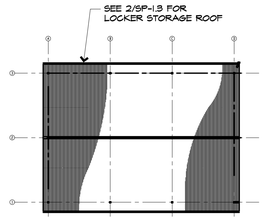
1. SLOPE AT EXISTING ROOF SUBSTRATE/FRAMING TO REMAIN AS IS UNLESS NOTED OTHERWISE. EXISTING SUBSTRATE TO BE REPAIRED OR REPLACED AS REQUIRED TO PROVIDE SUITABLE SURFACE FOR NEW ROOF SYSTEM AT AREAS OF NEW CONSTRUCTION. REPAIR EXISTING ROOF AREAS WHERE DAMAGED OR MISSING.
2. EXISTING MECHANICAL PLATFORM LOCATIONS TO REMAIN AND SHALL BE REPAIRED AT AREAS WHERE REQUIRED TO MAINTAIN A WEATHERTIGHT CONDITION.
3. All EXISTING SKYLIGHTS AND DOME SKYLIGHTS NOTED TO REMAIN FOR THIS SCOPE OF WORK SHALL BE INSPECTED AND MADE WEATHERTIGHT, AS REQUIRED.
4. ALL ROOF DRAINS AND OVERFLOWS SHALL INSPECTED AND CLEARED AND/OR REPAIRED TO ENSURE PROPER OPERATION.
5. REFER TO CIVIL DRAWINGS FOR DOWNSPOUT CONNECTIONS AT NEW CONSTRUCTION AREAS.
6. SEE MECHANICAL DRAWINGS FOR NEW / EXISTING EQUIPMENT LOCATIONS.
7. SEE KITCHEN CONSULTANT DRAWINGS FOR ROOF MOUNTED KITCHEN EQUIPMENT.

ROOF PLAN KEY NOTES

1. EXISTING ROOF TO REMAIN AS IS UNLESS NOTED OTHERWISE.
2. EXISTING HVAC UNIT/PLATFORM TO REMAIN AS IS UNLESS NOTED OTHERWISE.
3. EXISTING ROOF ACCESS HATCH TO BE DEMOLISHED AND INFILL WITH FRAMING AND ROOFING TO MATCH EXISTING. REMOVE EXISTING RAILING AT PARAPET.
4. EXISTING ROOF TRUSS FRAMING BELOW TO BE VERIFIED IN FIELD AS REQUIRED TO LOCATE NEW ELEVATOR SHAFT.
5. EXISTING SKYLIGHT TO REMAIN. REPAIR/REPLACE ANY DAMAGED UNITS TO A "LIKE-NEW" CONDITION.
6. EXISTING SKYLIGHT AND CURB TO BE DEMOLISHED AND REMOVED. PROVIDE 2X WOOD FRAMING INFILL WITH PLYWOOD SHEATHING, WRB AND NEW CLASS B BUILT UP ROOFING TO MATCH EXISTING. SEE DETAIL 21, A-14.1.
7. NEW 20 GA. GALVANIZED METAL ROOF DECKING, TYPE 'B' ESR NO. 2018 @ SLOPED CANOPY AT EXTERIOR, SEE EXTERIOR ELEVATIONS.
8. PAINTED METAL ROOF GUTTER/DOWNSPOUT AND OVERFLOW AT NEW ROOF, SEE SITE PLAN FOR DOWNSPOUT LOCATIONS. SEE DETAIL 22, TYPICAL.
9. LOCATION OF NEW SOLATUBE SKYLIGHT, SEE DETAILS 11 & 12/A-14.1.
10. EXISTING DRAIN/DOWNSPOUT LOCATION, SEE SITE PLAN.
11. NEW DRAIN/DOWNSPOUT LOCATION, SEE SITE PLAN.
12. NEW CANT STRIP AT PERIMETER WALL, SEE DETAIL 25 & 17/-, TYPICAL.
13. NEW CLASS B BUILT UP ROOF IN-FILL OVER WEATHER BARRIER OVER PLYWOOD SUBSTRATE, TO MATCH EXISTING ADJACENT ROOFING ASSEMBLY, SLOPE AS SHOWN.
14. PLYWOOD CRICKET, SLOPE AS SHOWN.
15. LINE OF NEW ELEVATOR SHAFT LOCATION BELOW, SEE FLOOR PLAN AND SHEET A-7.5.
16. NEW HVAC UNIT WITH PLATFORM, CURBS, FLASHING, ETC. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
17. NEW STRUCTURAL COLUMN ROOF SUPPORT BELOW, SEE PLAN AND STRUCTURAL DRAWINGS.
18. SEE KITCHEN CONSULTANT DRAWINGS FOR LOCATION AND SPECIFICATION OF ROOF MOUNTED EQUIPMENT.
19. NEW ROOF HATCH AND LADDER TO SECOND FLOOR BELOW. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. REWORK ROOFING AND FLASHING AS REQUIRED.
20. NEW PREFABRICATED AWNING AT DOOR AT FIRST FLOOR BELOW.
21. EXISTING RTU - SEE MECHANICAL DRAWINGS.
22. REFER TO T24 ENERGY FORMS FOR SPECIFICATION FOR NEW BELOW ROOF DECK THERMAL INSULATION THROUGHOUT AS INDICATED. SEE REFLECTED CEILING PLANS, SHEETS A-2.1 AND A-2.2 FOR ADDITIONAL INFORMATION.

CEILING LEGEND

- EXISTING SKYLIGHT TO REMAIN
- EXISTING SKYLIGHT TO BE DEMOLISHED AND REMOVED
- O_A 14" DIAMETER SOLATUBE INTERIOR FLOOR TO CEILING = 10'-0" A.F.F. INTERIOR FLOOR TO ROOF = +/- 27'-0" - 29'-0" A.F.F.
- O_B 21" DIAMETER SOLATUBE INTERIOR FLOOR TO CEILING = 11'-0" A.F.F. INTERIOR FLOOR TO ROOF = +/- 27'-0" - 29'-0" A.F.F.



BUILDING ROOF PLAN 5

SCALE: 1/16" = 1'-0"

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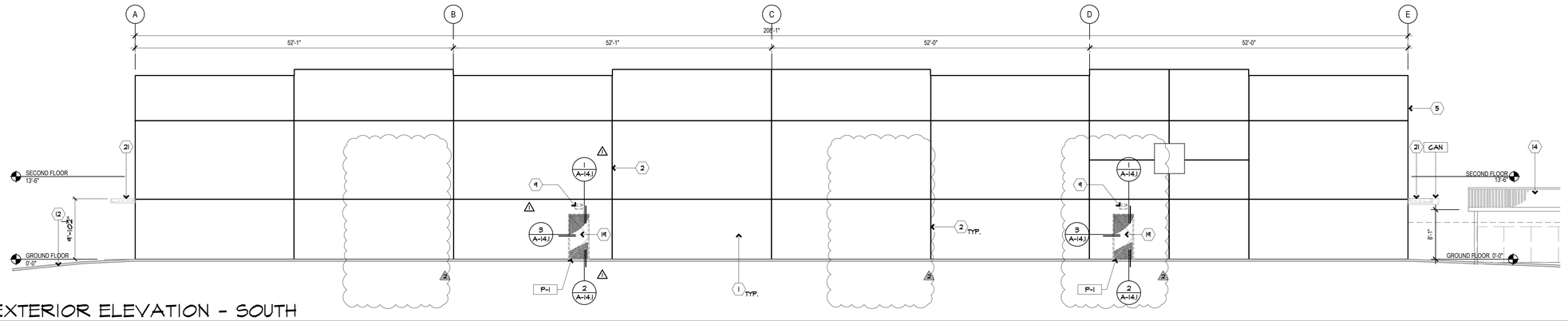
BUILDING ROOF PLAN, NOTES & DETAILS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

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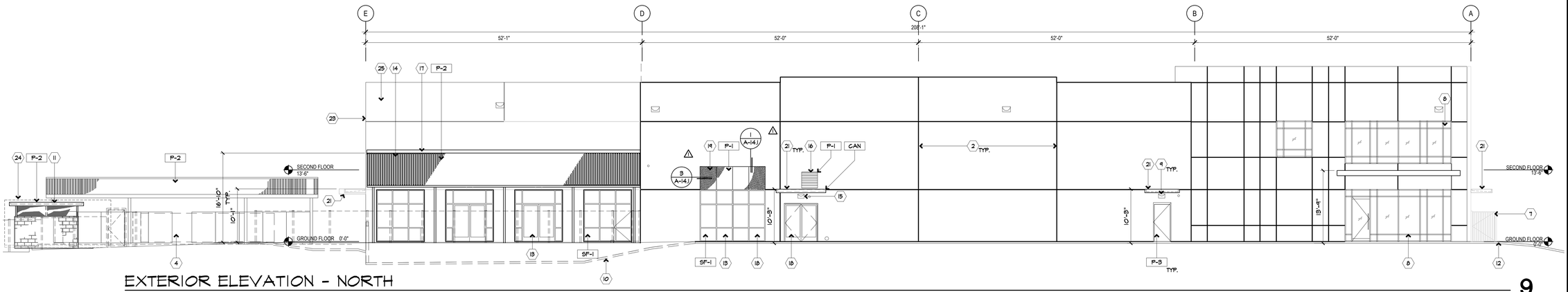
A-5



EXTERIOR ELEVATION - SOUTH

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

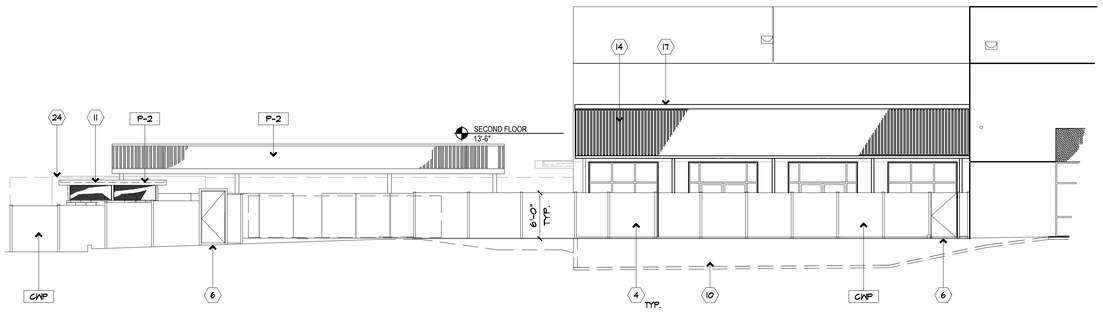
7



EXTERIOR ELEVATION - NORTH

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

9



ENLARGED ENTRY - NORTH ELEVATION

SCALE: 1/4" = 1'-0"

15

ELEVATION GENERAL NOTES

1. EXISTING BUILDING EXTERIOR TO BE PRESSURE WASHED AND PREPARED TO RECEIVE NEW FINISH WHERE SHOWN, SEE EXTERIOR FINISH LEGEND THIS SHEET.

EXERIOR FINISH NOTES:

1. ALL NEW EXTERIOR STOREFRONT FINISH TO BE ANODIZED ALUMINUM TO MATCH EXISTING.
2. ALL NEW EXTERIOR METAL DOORS AND FRAMES TO BE PAINTED TO MATCH EXISTING EXTERIOR DOOR FINISH.
3. NEW METAL ROOF STRUCTURES, PAINTED TO MATCH DUNN EDWARDS DET680 ESPRESSO MACCHIATO
4. ALL NEW EXTERIOR PLASTER INFILL PAINT TO MATCH EXISTING BUILDING FINISH.
5. ALL NEW EXTERIOR GUTTERS AND DOWNSPOUTS TO BE PAINTED TO MATCH EXISTING.

EXERIOR FINISH LEGEND:

P-1	PAINTED EXTERIOR BUILDING SURFACES: TO MATCH EXISTING BUILDING
P-2	PAINT AT METAL: ROOFS /POSTS ETC. DUNN EDWARDS DET680 ESPRESSO MACCHIATO
P-3	PAINT AT METAL: DOORS / FRAMES MATCH EXISTING
EXT-1	EXTERIOR PLASTER TEXTURE FINISH OVER FRAMING TO MATCH EXISTING
CMP-1	COMPOSITE FENCE PANEL: FIBERON, WILDWOOD EDEN COLLECTION COLOR: KOA
SF-1	STOREFRONT SYSTEM; ARCADIA SYSTEM; FINISH, CLEAR ANODIZED ALUMINUM
CAN	CANOPY: PREFABRICATED AWNING: LUMISHADE, 8" C-CHANNEL COLOR, KYNAR, MAPES BRONZE

ELEVATION NOTES

1. EXISTING CONCRETE TILT UP EXTERIOR WALL.
2. EXISTING PANEL JOINT AT EXTERIOR WALL.
3. EXISTING STEEL MAN DOOR.
4. NEW SOLID FENCING AT PERIMETER. REFER TO FINISH LEGEND CMP-1
5. EXISTING ROOF DRAIN DOWNSPOUT.
6. NEW GATES TO MATCH FENCE.
7. EXISTING W.I. GATE AND FENCE.
8. EXISTING STOREFRONT GLAZING SYSTEM.
9. EXISTING WALL MOUNTED LIGHT FIXTURE AT EXTERIOR (DEMOLISH AT ABANDONED DOOR LOCATIONS).
10. EXISTING RECESSED TRUCK WELL TO BE INFILLED, SEE SITE PLAN FOR ADDITIONAL INFORMATION.
11. EXISTING CMU TRASH ENCLOSURE WITH NEW ROOF.
12. LINE OF EXISTING LANDSCAPE/GRADING, SEE CIVIL DRAWINGS.
13. NEW STOREFRONT GLAZING SYSTEM, SEE SCHEDULE.
14. NEW SLOPED METAL ROOF STRUCTURE AND METAL ROOF, PAINT PER SCHEDULE.
15. NEW WALL MOUNTED LIGHT FIXTURE AT EXTERIOR DOOR, SEE ELECTRICAL DRAWINGS.
16. EXISTING LOUVER TO REMAIN, PROVIDE WEATHERPROOFING WITH MOISTURE RESISTANT GYP. BOARD OVER WRB AT INTERIOR SIDE OF LOUVER.
17. NEW METAL FLASHING AT PARAPET, PAINT TO MATCH ROOF.
18. NEW TEMPERED STOREFRONT GLAZING ENTRY SYSTEM OR WINDOW, SEE SCHEDULE. SOLOAR BAN 60 AGUITY U.N.O.
19. NEW EXTERIOR PLASTER/METAL STUD INFILL WHERE EXISTING DOOR HAS BEEN REMOVED, SEE DETAILS ON SHEET A-14.1. FINISH TO MATCH ADJACENT BUILDING FINISH.
20. SAW CUT EXISTING CONCRETE PANEL TO ACCOMMODATE NEW DOOR OR WINDOW, SEE PLAN, SHEET A-1.1 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
21. NEW PREFABRICATED CANOPY STRUCTURE OVER EXTERIOR DOOR, SEE DETAIL 24 AND 25/A-14 FOR ADDITIONAL INFORMATION. REFER TO FINISH LEGEND.
22. NEW MAN DOOR, SEE SCHEDULE. PAINT TO MATCH EXISTING EXTERIOR DOORS
23. NEW GUTTER AND DOWNSPOUT, SEE PLAN.
24. LINE OF METAL CONTAINER BEYOND.
25. EXISTING CONCRETE TRUCKWELL WALL, SAWCUT FOR NEW GATE. PAINT FINISH.

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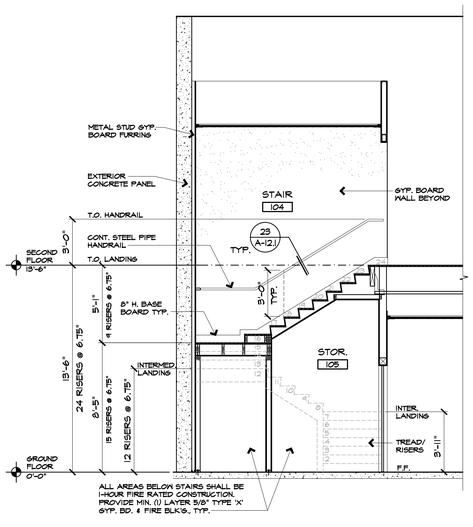
NORTH & SOUTH EXTERIOR ELEVATIONS & NOTES

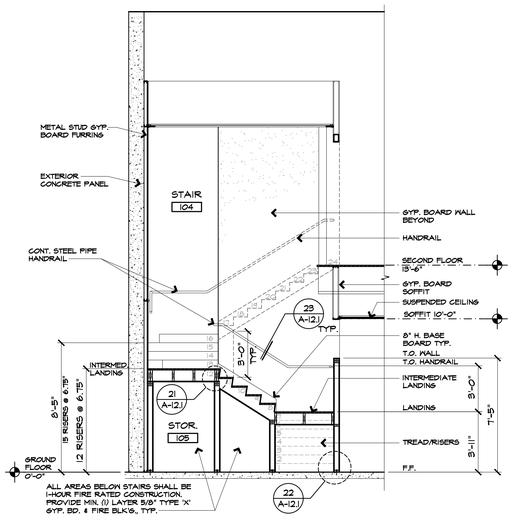
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2 FC CORR 2 / ADD 2	MFM	6/12/26

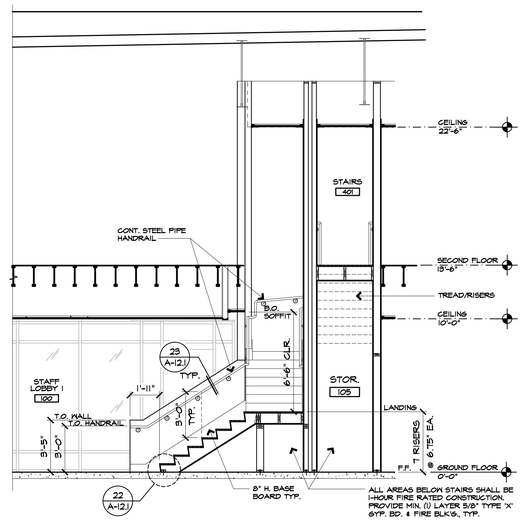
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Date	2/13/26
Project No.	25011
Scale	AS NOTED

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A-6.1





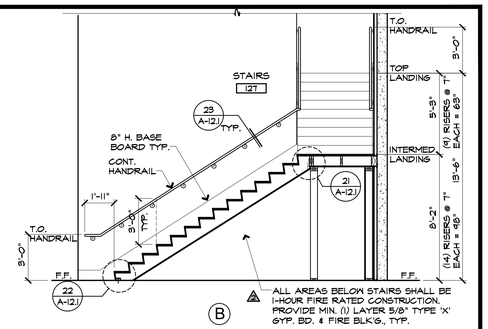


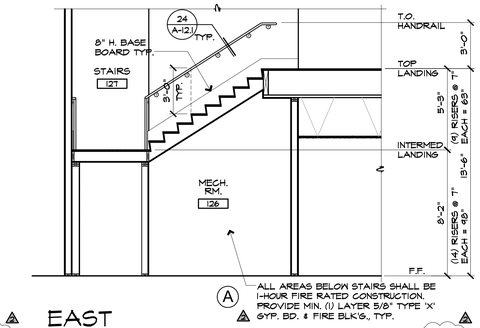
WEST STAIR SECTIONS

SCALE: 1/4"=1'-0"

WEST STAIR SEC 1-2

7



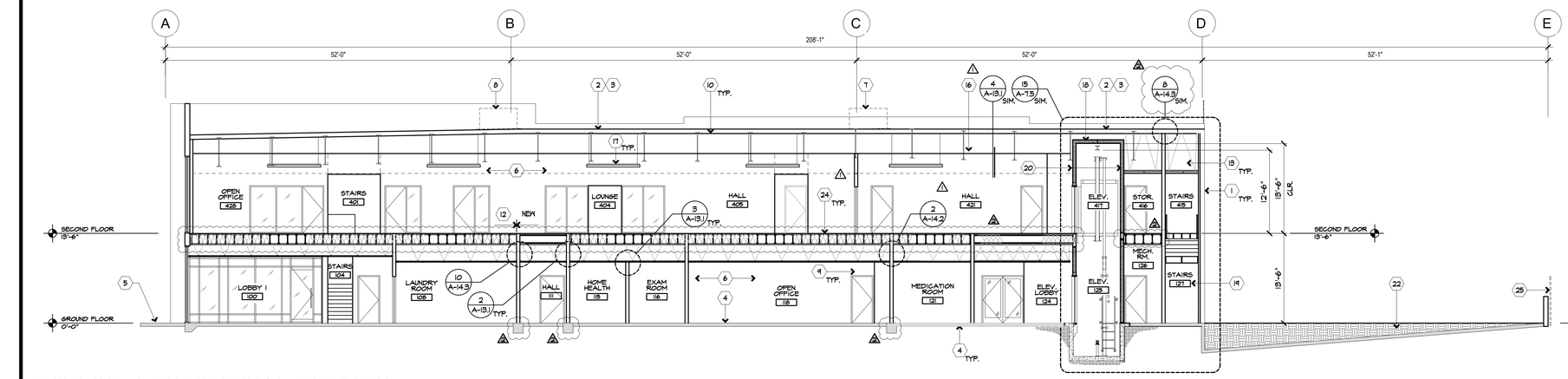


EAST
EAST STAIR SECTIONS

SCALE: 1/4"=1'-0"

Stair Section-2.dwg

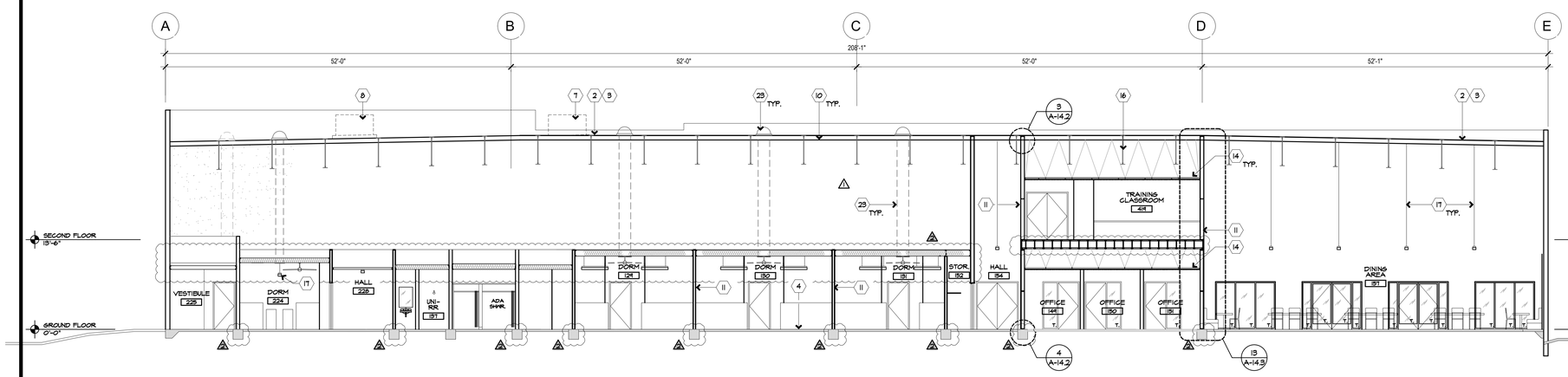
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BUILDING LONGITUDINAL SECTION

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

9



BUILDING LONGITUDINAL SECTION

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

10

SECTION NOTES:

1. EXISTING CONCRETE PANEL TILT UP WALL AND FOOTING.
2. EXISTING ROOF FRAMING.
3. EXISTING ROOFING TO REMAIN.
4. EXISTING CONCRETE SLAB ON GRADE.
5. EXISTING FINISH GRADE OR FINISH HARDSCAPE, SEE PLAN.
6. NEW CONSTRUCTION, SEE CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION.
7. NEW MECHANICAL EQUIPMENT WITH PLATFORM, SEE ROOF PLAN, MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. EXISTING MECHANICAL UNIT, SEE MECHANICAL DRAWINGS.
9. EXISTING COLUMN AS OCCURS.
10. NEW INSULATION AT ROOF AREA, AS INDICATED ON MECHANICAL DRAWINGS AND TITLE-24 FORMS.
11. METAL STUD DEMISING/SEPARTION PARTITION WALL FULL HEIGHT TO STRUCTURE ABOVE, SEE CONSTRUCTION FLOOR PLAN WALL LEGEND FOR SPECIFICATION.
12. EXISTING FLOOR FRAMING AS OCCURS.
13. SUSPENDED GYP. BOARD CEILING, SUSPEND FROM STRUCTURE ABOVE. SEE 15/A-15.1 FOR ADDITIONAL INFORMATION.
14. SUSPENDED ACOUSTIC TILE CEILING SYSTEM, SUSPEND FROM STRUCTURE ABOVE, SEE 23/A-15.1 FOR ADDITIONAL INFORMATION. SEE REFLECTED CEILING PLAN.
15. NEW JOISTED GYPSUM BOARD CEILING, HEIGHT AS NOTED ON PLAN, U.N.O.
16. EXISTING ROOF TRUSS.
17. SUSPENDED LIGHT FIXTURE, SEE REFLECTED CEILING PLAN.
18. NEW ELEVATOR RATED ASSEMBLY.
19. ONE HOUR RATED ASSEMBLY AT STAIR CASE.
20. ELEVATOR SHAFT ASSEMBLY AND HOIST WAY, SEE PLAN.
21. EXISTING SKYLIGHT TO REMAIN.
22. NEW COMPACTED FILL WITH TOP SOIL SURFACE AT INFILLED TRUCK WELL AREA, SEE PLAN.
23. NEW SOLATUBE SKYLIGHT, SEE 11 & 12/A-14.1 AND A-2.1 / A-2.2 FOR SPECIFICATIONS.
24. NEW FLOOR FRAMING, SEE STRUCTURAL DRAWINGS.
25. NEW FENCE SCREEN AT SITE, SEE PLAN.

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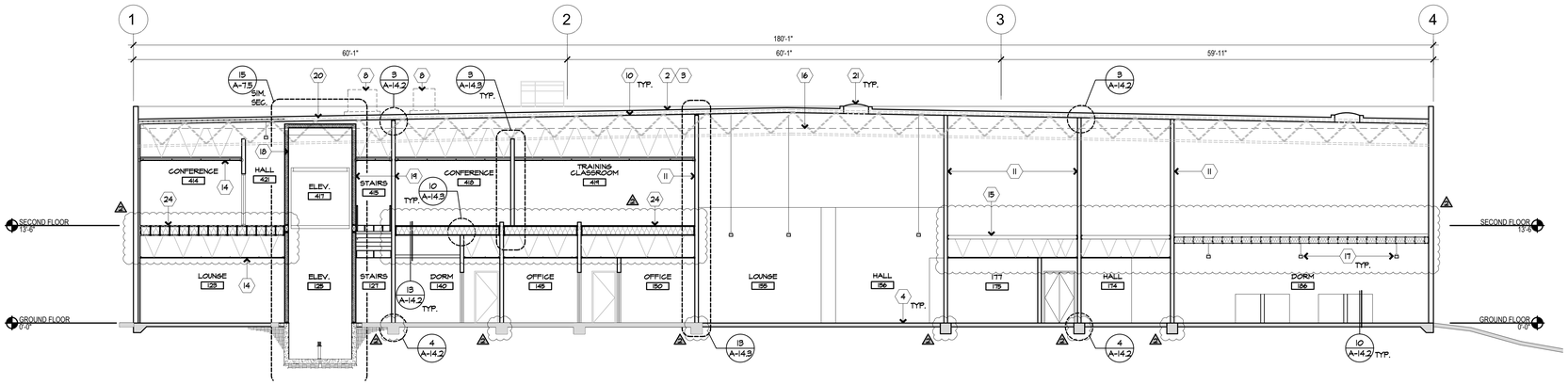
BUILDING LONGITUDINAL SECTIONS, STAIR SECTIONS & NOTES

Revisions	By	Date
1 FC CORR 5I/BID ISSUE	DAE	4/29/26
2 FC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

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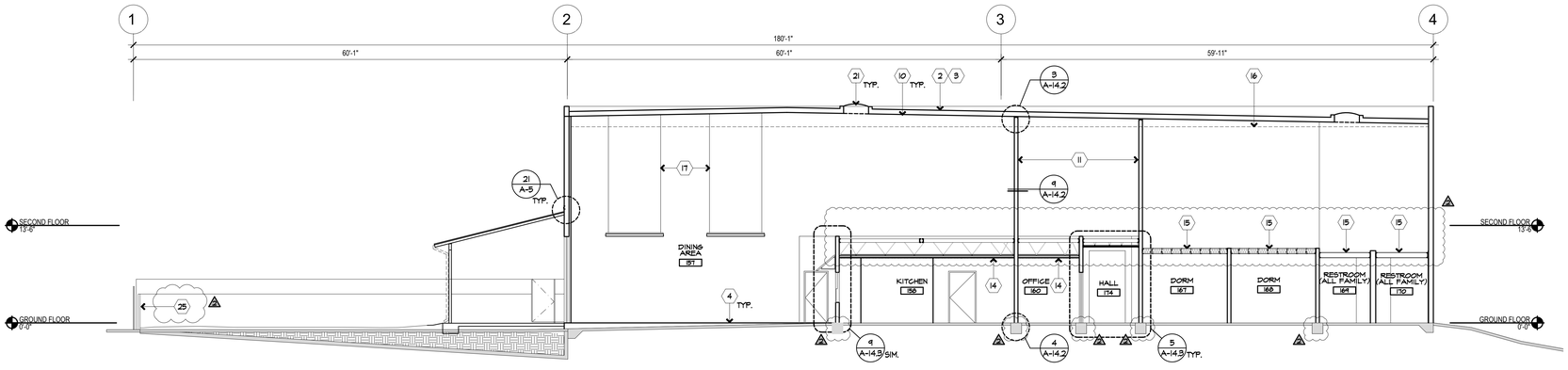
A-6.3



BUILDING CROSS SECTION

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

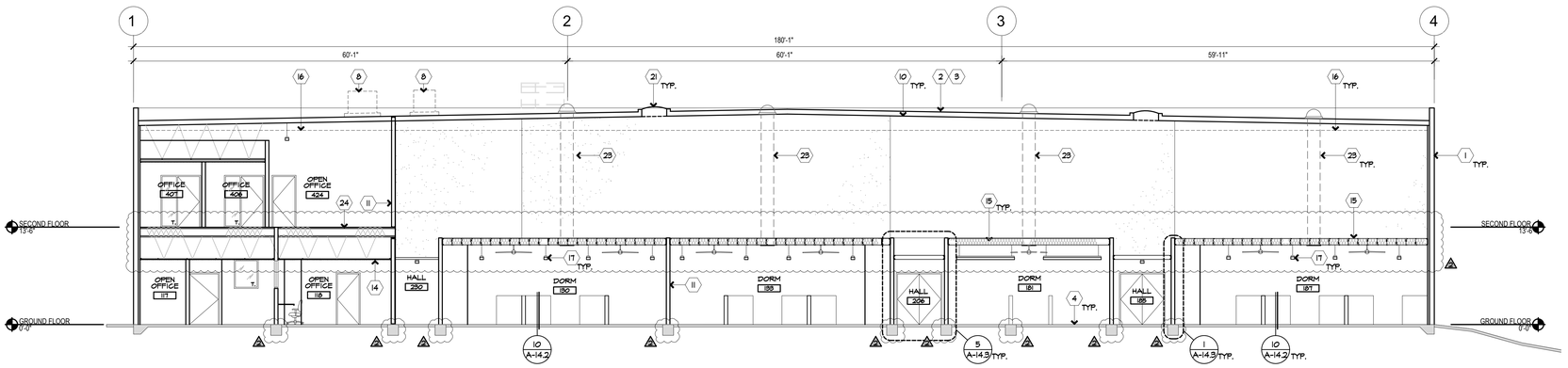
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BUILDING CROSS SECTION

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

9



BUILDING CROSS SECTION

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

SECTION NOTES:

1. EXISTING CONCRETE PANEL TILT UP WALL AND FOOTINGS.
2. EXISTING ROOF FRAMING.
3. EXISTING ROOFING TO REMAIN.
4. EXISTING CONCRETE SLAB ON GRADE.
5. EXISTING FINISH GRADE OR FINISH HARDSCAPE, SEE PLAN.
6. NEW CONSTRUCTION, SEE CONSTRUCTION PLAN FOR ADDITIONAL INFORMATION.
7. NEW MECHANICAL EQUIPMENT WITH PLATFORM, SEE ROOF PLAN, MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. EXISTING MECHANICAL UNIT, SEE MECHANICAL DRAWINGS.
9. EXISTING COLUMN AS OCCURS.
10. NEW INSULATION AT ROOF AREA, AS INDICATED ON MECHANICAL DRAWINGS AND TITLE-24 FORMS.
11. METAL STUD DEMISING/SEPARTION PARTITION WALL FULL HEIGHT TO STRUCTURE ABOVE, SEE CONSTRUCTION FLOOR PLAN WALL LEGEND FOR SPECIFICATION.
12. EXISTING FLOOR FRAMING AS OCCURS. ⚠
13. SUSPENDED GYP. BOARD CEILING, SUSPEND FROM STRUCTURE ABOVE. SEE 15/A-13.1 FOR ADDITIONAL INFORMATION.
14. SUSPENDED ACOUSTIC TILE CEILING SYSTEM, SUSPEND FROM STRUCTURE ABOVE, SEE 23/A-13.1 FOR ADDITIONAL INFORMATION. SEE REFLECTED CEILING PLAN.
15. NEW JOISTED GYPSUM BOARD CEILING, HEIGHT AS NOTED ON PLAN, U.N.O.
16. EXISTING ROOF TRUSS.
17. SUSPENDED LIGHT FIXTURE, SEE REFLECTED CEILING PLANS.
18. NEW ELEVATOR RATED ASSEMBLY.
19. ONE HOUR RATED ASSEMBLY AT STAIR CASE.
20. ELEVATOR SHAFT ASSEMBLY AND HOIST WAY, SEE PLAN.
21. EXISTING SKYLIGHT TO REMAIN.
22. NEW COMPACTED FILL WITH TOP SOIL SURFACE AT INFILLED TRUCK WELL AREA, SEE SITE PLAN.
23. NEW SOLATUBE SKYLIGHT, SEE 11 & 12/A-14.1 AND A-2.1 / A-2.2 FOR SPECIFICATIONS. ⚠
24. NEW FLOOR FRAMING, SEE STRUCTURAL DRAWINGS.
25. NEW FENCE SCREEN AT SITE, SEE PLAN. ⚠2

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LORENT J. DELLA RAMIA
#C 21632
Exp. 01/31/27
STATE OF CALIFORNIA

CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

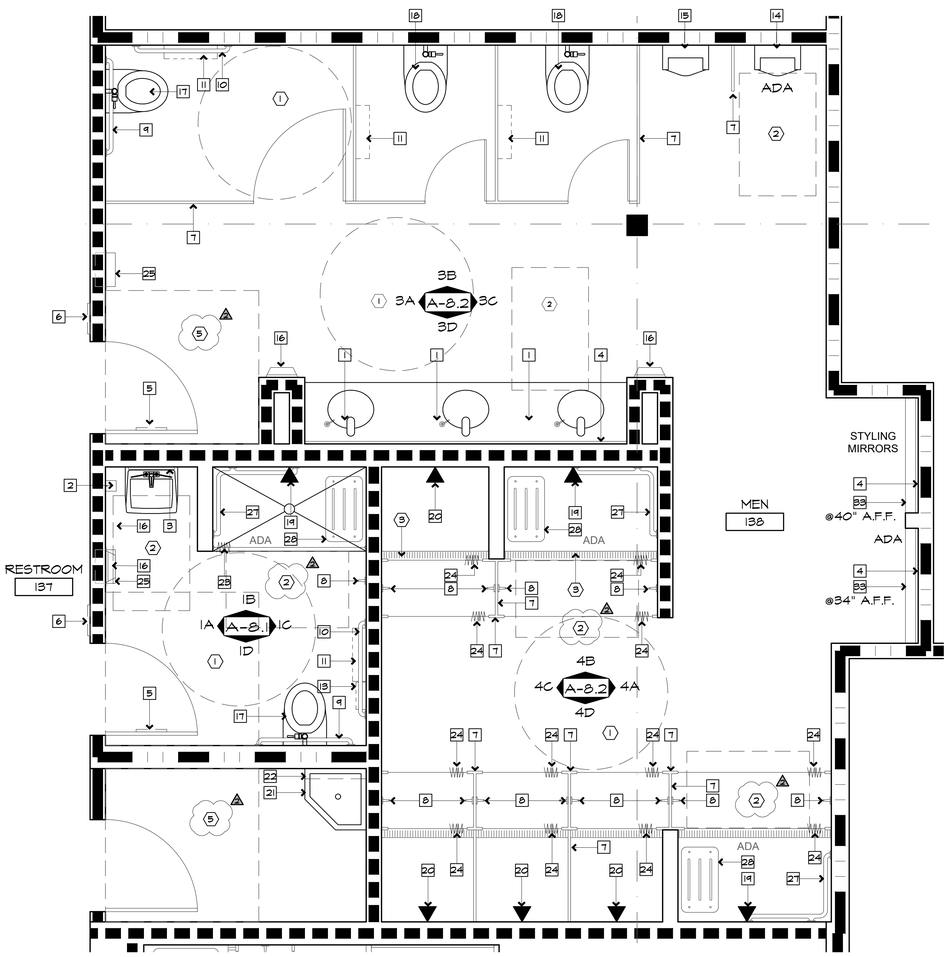
BUILDING CROSS SECTIONS & NOTES

Revisions	By	Date
⚠1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
⚠2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

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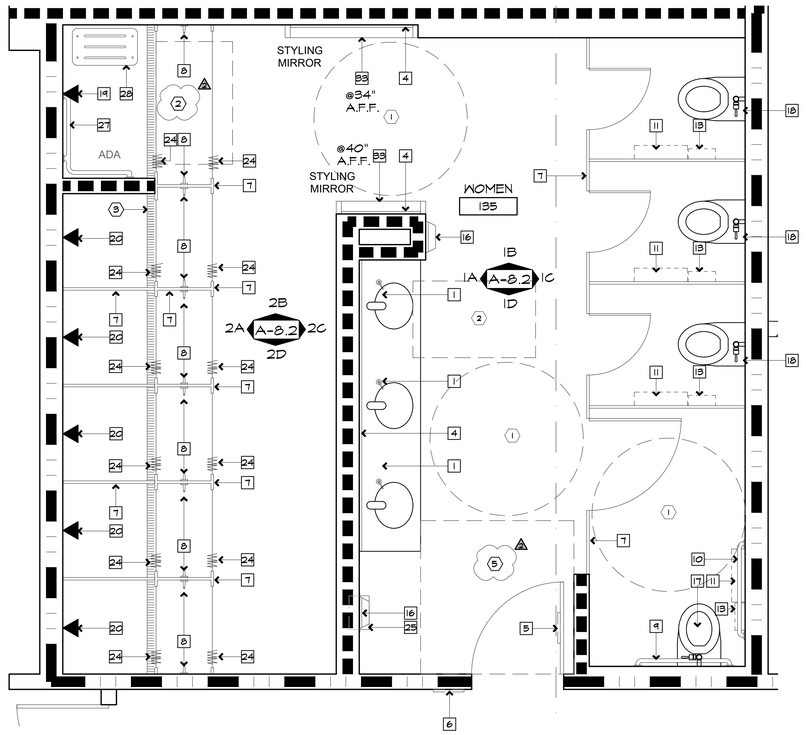
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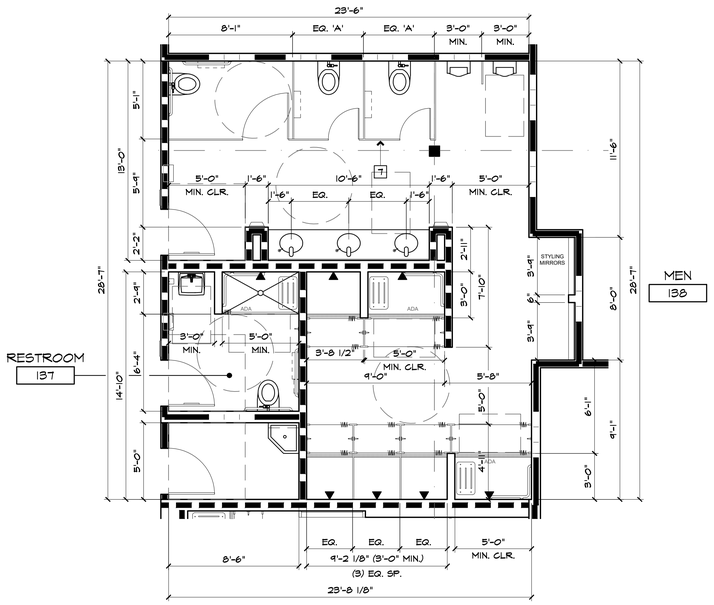


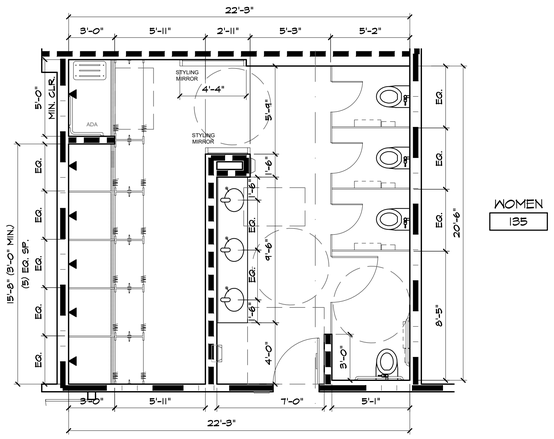
RESTROOM RM. 137, MEN RESTROOM RM. 138, WOMEN RESTROOM RM. 135

SCALE: 1/2"=1'-0"

8







PARTIAL ENLARGED DIMENSIONED PLAN - WOMEN 135, RESTROOM 137 & MEN 138

SCALE: 1/4"=1'-0"

10

GENERAL TOILET ROOM NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH OR CENTERLINE OF FIXTURE AS INDICATED.
2. PROVIDE NEW BELOW COUNTER TRAP AND HOT WATER INSULATION PER DETAIL 4/A-11.1 TYPICAL THROUGHOUT.
3. REFER TO DETAIL 3/A-11.1 FOR TYPICAL ACCESSORY INSTALLATION. △
4. REFER TO FINISH PLANS FOR FINISH SPECIFICATIONS AND LEGEND ON SHEET A-4.1 AND A-4.2.
5. CONTRACTOR TO V.I.F. ALL DIMENSIONS PRIOR TO THE WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
6. REFER TO PLUMBING ENGINEERING DRAWINGS FOR FIXTURE SCHEDULE, SPECIFICATIONS OF WATER CLOSETS, URINAL, LAVATORIES, FAUCETS AND INFORMATION NOT SHOWN HERE.
7. REFER TO RESTROOM ACCESSORIES LEGEND, THIS SHEET FOR SPECIFICATIONS.
8. REFER TO 19/A-11.1 FOR TYPICAL FIXTURE LOCATIONS, GRAB BAR CONFIGURATIONS AND ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
9. △ SEE SHOWER CURB, DRAIN AND SILL DETAILS 16-19 & 21-23, SHEET A-12.2.

△RESTROOM ACCESSORIES LEGEND

1. PROVIDE COUNTER MOUNTED AUTOMATIC SENSOR SOAP DISPENSER: BOBRICK: B-824
2. WALL MOUNTED AUTOMATIC SENSOR SOAP DISPENSER: BOBRICK: B-2012
3. MIRROR: BOBRICK #B-290-1836 SERIES (OR EQUAL), 18" W. x 36" H. BOTTOM OF REFLECTIVE SURFACE @ +40" A.F.F.
4. MIRROR: BOBRICK #B-290 SERIES (OR EQUAL) FULL WIDTH x 44" H. BOTTOM OF REFLECTIVE SURFACE @ +40" A.F.F.
5. DOOR MOUNTED SIGN, SEE DETAILS 14 & 15/A-11.1.
6. WALL MOUNTED SIGN, SEE DETAIL 9/A-11.1.
7. SCRANTON, FLOOR MOUNTED OVERHEAD BRACED HIGH DENSITY PLASTIC TOILET PARTITIONS (TP-1) AND/OR SHOWER PARTITIONS (SP-1). AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9" MIN. ABOVE FINISH FLOOR AND 6" DEEP MIN. BEYOND COMPARTMENT SIDE FACE OF PARTITION. SEE FINISH LEGEND ON SHEET A-4.1.
8. TOWEL HOOK: BOBRICK #B-2116 TYP. AT EACH SHOWER STALL. MOUNT AT + 44" MAX. A.F.F. @ ACCESSIBLE STALL, 60" A.F.F. @ STANDARD STALL. (2) HOOKS PER STALL.
9. GRAB BAR: BOBRICK #B-5806X36 OR EQUAL, 36" L. REAR MOUNTED PER DETAIL 19/A-11.1.
10. GRAB BAR: BOBRICK #B-5806X48 OR EQUAL, 48" L. SIDE MOUNTED PER DETAIL 19/A-11.1.
11. SURFACE MOUNTED TOILET TISSUE DISPENSER: BOBRICK: B-2892
12. SURFACE MOUNTED TOILET SEAT COVER DISPENSER: BOBRICK: B-221.
13. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK: B-254
14. ACCESSIBLE URINAL, SEE DETAIL 20/A-11.1 AND PLUMBING DRAWINGS.
15. STANDARD URINAL, SEE PLUMBING DRAWINGS.
16. WALL MOUNTED ELECTRIC HAND DRYER: BOBRICK: B-71.25 SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
17. ACCESSIBLE TOILET, SEE PLUMBING DRAWINGS AND 19/A-11.1.
18. STANDARD TOILET, SEE PLUMBING DRAWINGS.
19. ACCESSIBLE ADJUSTABLE SHOWER SPRAY UNIT WITH 59" LONG HOSE AND MIXING VALVE, SEE PLUMBING DRAWINGS.
20. STANDARD SHOWER SPRAY UNIT WITH MIXING VALVE, SEE PLUMBING DRAWINGS.
21. JANITOR'S SERVICE SINK 24" X 8" SEE PLUMBING DRAWINGS
22. REGENCY SPACE SOLUTIONS 24" LONG FIXED SHELF WITH UTILITY HOOKS, #600NSU824.
23. PROVIDE BOBRICK SHOWER OR TUB CURTAIN #204-3, ROD #B-6107X60, AND HOOKS #204-1.
24. PROVIDE SCRANTON, HEAVY DUTY COMMERCIAL GRADE SHOWER CURTAIN AND HOOKS SYSTEM TO WORK WITH SCRANTON SHOWER COMPONENTS. PROVIDE CUT SHEET TO ARCHITECTS FOR APPROVAL.
25. PROVIDE SEMI-RECESSED 12 GALLON TRASH RECEPTACLE. BOBRICK: B-3644.
26. ACCESSIBLE ADJUSTABLE TUB / SHOWER SPRAY UNIT, SEE PLUMBING DRAWINGS.
27. BOBRICK B-58616 TWO-WALL GRAB BAR, 1-1/4" DIA. 24" X 36", SEE DETAIL 5/A-11.1.
28. BOBRICK B-5193 RECTANGULAR FOLDING SHOWER SEAT, SEE DETAIL 8/A-11.1.
29. GRAB BAR: BOBRICK #B-5806X24 OR EQUAL, 24"L. AT ADA TUB. SEE DETAIL 5/A-11.1.
30. GRAB BAR: BOBRICK #B-5806X18 OR EQUAL, 18"L AT ADA TUB. SEE DETAIL 3/A-11.1.
31. TUB SEAT: SEACHROME, #STSB-300150-TWA, REMOVABLE SEAT, 30"x15" WITH ADJUSTABLE POSTS.
32. ACCESSIBLE TUB, SEE PLUMBING DRAWINGS.
33. STAINLESS STEEL SHELF: BOBRICK #B-295 SERIES, FULL WIDTH PER PLAN X 5"D.
34. WOOD WALL MIRROR: WAYFAIR.COM, CASTIN SOLID WOOD FLAT WALL MIRROR 36" X 36", SKU MIII006849 COLOR: BLACK

PARTIAL ENLARGED PLAN KEY NOTES

1. 5'-0" DIA. CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
2. 30" x 48" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
3. FLOOR TRENCH DRAIN, SEE PLUMBING DRAWINGS.
4. PROVIDE ALL REQUIRED DIMENSIONS AS NOTED IN CONFIGURATION AS ON DETAIL 5/ACC-3.
5. △ 5'-0" x 5'-0" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.

NOTE:

1. REFER TO LARGE SCALE ENLARGED PLANS, THIS AREA, FOR ADDITIONAL INFORMATION, SEE DETAIL 8, THIS SHEET.

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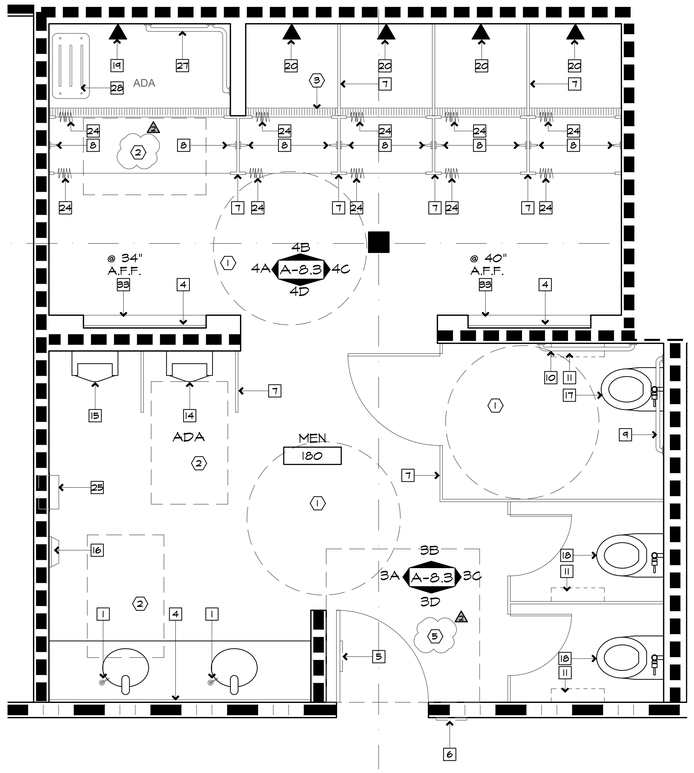
ENLARGED RESTROOMS PLANS & NOTES ROOM 135, 137 & 138

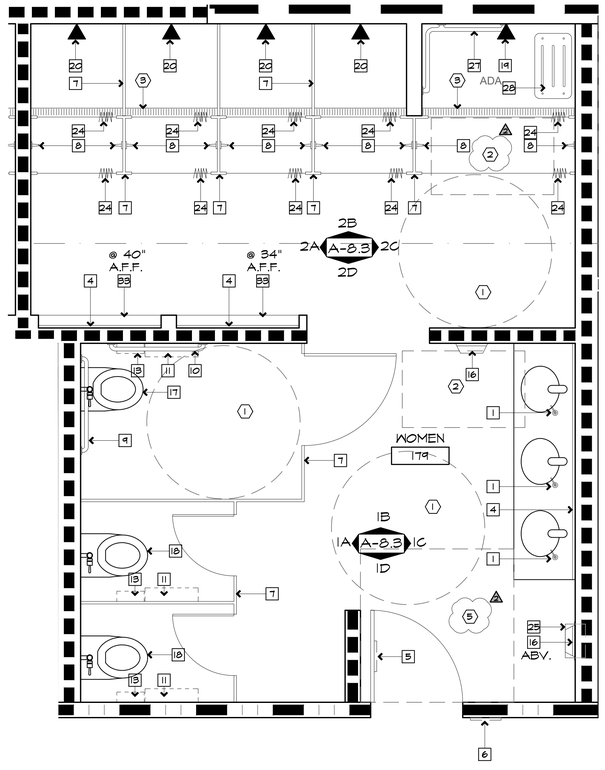
Revisions	By	Date
△ PC CORR 1/BID ISSUE 1	DAE	4/29/26
△ PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
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Scale	AS NOTED

Sheet

A-7.1

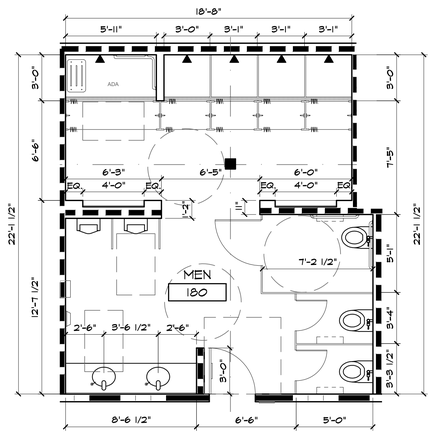


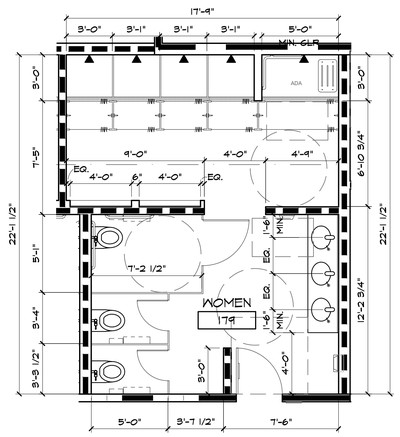


PARTIAL ENLARGED TOILET/SHOWER ROOM PLAN - WOMEN 179 AND MEN 180

8

SCALE: 1/2"=1'-0"





PARTIAL ENLARGED DIMENSIONED PLAN - WOMEN 179 AND MEN 180

10

SCALE: 1/4"=1'-0"

GENERAL TOILET ROOM NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH OR CENTERLINE OF FIXTURE AS INDICATED.
2. PROVIDE NEW BELOW COUNTER TRAP AND HOT WATER INSULATION PER DETAIL 4/A-11.1 TYPICAL THROUGHOUT.
3. REFER TO DETAIL 3/A-11.1 FOR TYPICAL ACCESSORY INSTALLATION.
4. REFER TO FINISH PLANS FOR FINISH SPECIFICATIONS AND LEGEND ON SHEET A-4.1 AND A-4.2.
5. CONTRACTOR TO V.I.F ALL DIMENSIONS PRIOR TO THE WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
6. REFER TO PLUMBING ENGINEERING DRAWINGS FOR FIXTURE SCHEDULE, SPECIFICATIONS OF WATER CLOSETS, URINAL, LAVATORIES, FAUCETS AND INFORMATION NOT SHOWN HERE.
7. REFER TO RESTROOM ACCESSORIES LEGEND, THIS SHEET FOR SPECIFICATIONS.
8. REFER TO 19/A-11.1 FOR TYPICAL FIXTURE LOCATIONS, GRAB BAR CONFIGURATIONS AND ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
9. SEE SHOWER CURB, DRAIN AND SILL DETAILS 16-19 & 21-23, SHEET A-12.2.

⚠ RESTROOM ACCESSORIES LEGEND

1. PROVIDE COUNTER MOUNTED AUTOMATIC SENSOR SOAP DISPENSER: BOBRICK: B-824
2. WALL MOUNTED AUTOMATIC SENSOR SOAP DISPENSER: BOBRICK: B-2012
3. MIRROR: BOBRICK #B-290-1836 SERIES (OR EQUAL), 18" W. x 36" H. BOTTOM OF REFLECTIVE SURFACE @ +40" A.F.F.
4. MIRROR: BOBRICK #B-290 SERIES (OR EQUAL) FULL WIDTH x 44" H. BOTTOM OF REFLECTIVE SURFACE @ +40" A.F.F.
5. DOOR MOUNTED SIGN, SEE DETAILS 14 & 15/A-11.1.
6. WALL MOUNTED SIGN, SEE DETAIL 9/A-11.1.
7. SCRANTON, FLOOR MOUNTED OVERHEAD BRACED HIGH DENSITY PLASTIC TOILET PARTITIONS (TP-1) AND/OR SHOWER PARTITIONS (SP-1). AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9" MIN. ABOVE FINISH FLOOR AND 6" DEEP MIN. BEYOND COMPARTMENT SIDE FACE OF PARTITION. SEE FINISH LEGEND ON SHEET A-4.1.
8. TOWEL HOOK: BOBRICK #B-2116 TYP. AT EACH SHOWER STALL. MOUNT AT +44" MAX. A.F.F. @ ACCESSIBLE STALL, 60" A.F.F. @ STANDARD STALL. (2) HOOKS PER STALL.
9. GRAB BAR: BOBRICK #B-5806X36 OR EQUAL, 36" L. REAR MOUNTED PER DETAIL 19/A-11.1.
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11. SURFACE MOUNTED TOILET TISSUE DISPENSER: BOBRICK: B-2892
12. SURFACE MOUNTED TOILET SEAT COVER DISPENSER: BOBRICK: B-221.
13. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK: B-254
14. ACCESSIBLE URINAL, SEE DETAIL 20/A-11.1 AND PLUMBING DRAWINGS.
15. STANDARD URINAL, SEE PLUMBING DRAWINGS.
16. WALL MOUNTED ELECTRIC HAND DRYER: BOBRICK: B-7125 SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
17. ACCESSIBLE TOILET, SEE PLUMBING DRAWINGS AND 19/A-11.1.
18. STANDARD TOILET, SEE PLUMBING DRAWINGS.
19. ACCESSIBLE ADJUSTABLE SHOWER SPRAY UNIT WITH 59" LONG HOSE AND MIXING VALVE, SEE PLUMBING DRAWINGS.
20. STANDARD SHOWER SPRAY UNIT WITH MIXING VALVE, SEE PLUMBING DRAWINGS.
21. JANITOR'S SERVICE SINK 24" X 8" SEE PLUMBING DRAWINGS
22. REGENCY SPACE SOLUTIONS 24" LONG FIXED SHELF WITH UTILITY HOOKS, #600NSU824.
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32. ACCESSIBLE TUB, SEE PLUMBING DRAWINGS.
33. STAINLESS STEEL SHELF: BOBRICK #B-295 SERIES, FULL WIDTH PER PLAN X 5"D.
34. WOOD WALL MIRROR: WAYFAIR.COM, CASTIN SOLID WOOD FLAT WALL MIRROR 36" X 36", SKU WIII0068949 COLOR: BLACK

PARTIAL ENLARGED PLAN KEY NOTES

1. 5'-0" DIA. CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
2. 30" x 48" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
3. FLOOR TRENCH DRAIN, SEE PLUMBING DRAWINGS.
4. PROVIDE ALL REQUIRED DIMENSIONS AS NOTED IN CONFIGURATION A3 ON DETAIL 5/ACC-3.
5. ⚠ 5'-0" x 5'-0" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.

NOTE:

1. REFER TO LARGE SCALE ENLARGED PLANS, THIS AREA, FOR ADDITIONAL INFORMATION, SEE DETAIL 8, THIS SHEET.

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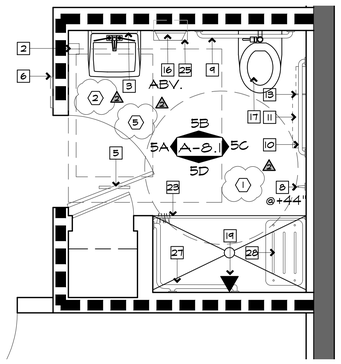
ENLARGED RESTROOMS PLANS & NOTES ROOM 179 & 180

Revisions	By	Date
⚠1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
⚠2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
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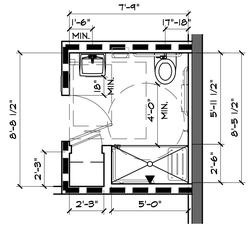
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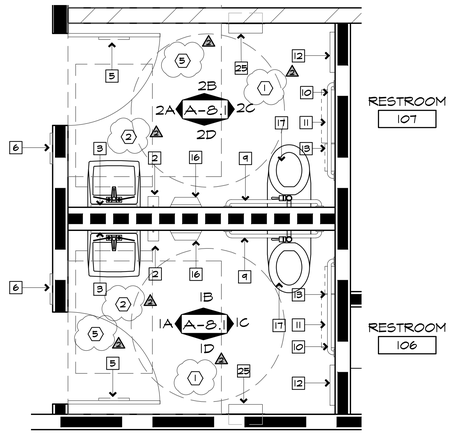
RESTROOM 162

SCALE: 1/2"=1'-0"



RESTROOM 162

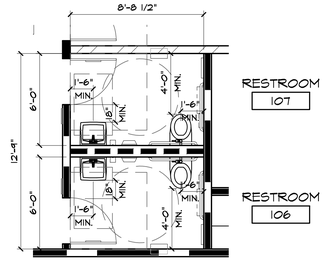
SCALE: 1/4"=1'-0"



RESTROOM 107

RESTROOM 106

SCALE: 1/2"=1'-0"



RESTROOM 107

RESTROOM 106

SCALE: 1/4"=1'-0"

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9. SEE SHOWER CURB, DRAIN AND SILL DETAILS 16-19 & 21-23, SHEET A-12.2.

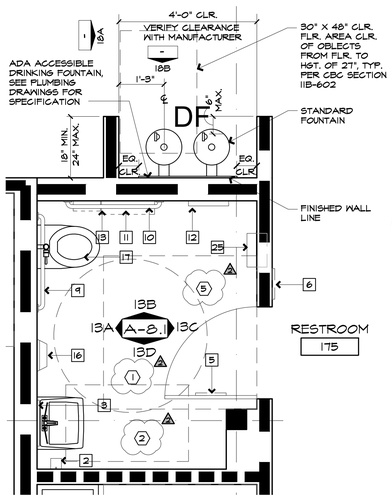
RESTROOM ACCESSORIES LEGEND

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5. DOOR MOUNTED SIGN, SEE DETAILS 14 & 15/A-11.1.
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15. STANDARD URINAL, SEE PLUMBING DRAWINGS.
16. WALL MOUNTED ELECTRIC HAND DRYER: BOBRICK: B-7125 SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
17. ACCESSIBLE TOILET, SEE PLUMBING DRAWINGS AND 19/A-11.1.
18. STANDARD TOILET, SEE PLUMBING DRAWINGS.
19. ACCESSIBLE ADJUSTABLE SHOWER SPRAY UNIT WITH 59" LONG HOSE AND MIXING VALVE, SEE PLUMBING DRAWINGS.
20. STANDARD SHOWER SPRAY UNIT WITH MIXING VALVE, SEE PLUMBING DRAWINGS.
21. JANITOR'S SERVICE SINK 24" X 8" SEE PLUMBING DRAWINGS
22. REGENCY SPACE SOLUTIONS 24" LONG FIXED SHELF WITH UTILITY HOOKS, #600WSUB24.
23. PROVIDE BOBRICK SHOWER OR TUB CURTAIN #204-3, ROD #B-6107X60, AND HOOKS #204-1.
24. PROVIDE SCRANTON, HEAVY DUTY COMMERCIAL GRADE SHOWER CURTAIN AND HOOKS SYSTEM TO WORK WITH SCRANTON SHOWER COMPONENTS. PROVIDE CUT SHEET TO ARCHITECTS FOR APPROVAL.
25. PROVIDE SEMI-RECESSED 12 GALLON TRASH RECEPTACLE. BOBRICK: B-3644.
26. ACCESSIBLE ADJUSTABLE TUB / SHOWER SPRAY UNIT, SEE PLUMBING DRAWINGS.
27. BOBRICK B-58616 TWO-WALL GRAB BAR, 1-1/4" DIA. 24" X 36", SEE DETAIL 5/A-11.1.
28. BOBRICK B-5143 RECTANGULAR FOLDING SHOWER SEAT, SEE DETAIL 8/A-11.1.
29. GRAB BAR: BOBRICK #B-5806X24 OR EQUAL, 24"L. AT ADA TUB. SEE DETAIL 5/A-11.1.
30. GRAB BAR: BOBRICK #B-5806X18 OR EQUAL, 18"L AT ADA TUB. SEE DETAIL 3/A-11.1.
31. TUB SEAT: SEACHROME, #5758-300150-TWA, REMOVABLE SEAT, 30"x15" WITH ADJUSTABLE POSTS.
32. ACCESSIBLE TUB, SEE PLUMBING DRAWINGS.
33. STAINLESS STEEL SHELF: BOBRICK #B-245 SERIES, FULL WIDTH PER PLAN X 5"D.
34. WOOD WALL MIRROR: WAYFAIR.COM, CASTIN SOLID WOOD FLAT WALL MIRROR 36" X 36", SKU WIII006899 COLOR: BLACK

PARTIAL ENLARGED RR 162 PLAN

16

SCALE: AS NOTED



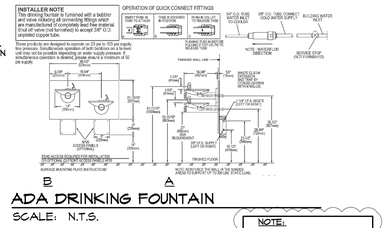
30" X 48" CLR. FLR. AREA CLR. OF OBJECTS FROM FLR. TO HGT. OF 27", TYP. PER CBC SECTION 11B-602

STANDARD FOUNTAIN

FINISHED WALL LINE

RESTROOM 175

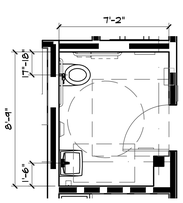
SCALE: 1/2"=1'-0"



ADA DRINKING FOUNTAIN

SCALE: N.T.S.

NOTE:
1. BOTTLE FILLING STATIONS SHALL COMPLY WITH CBC SECTION 11B-211, 11B-307 AND 11B-309 AND 602.10 FOR OPERABLE PARTS.



RESTROOM 175

SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 175 PLAN

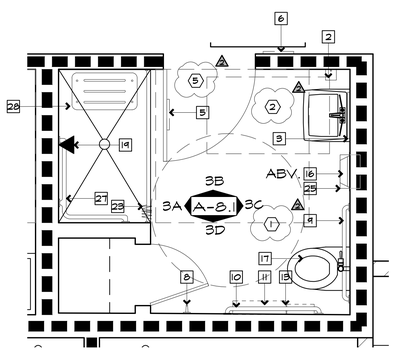
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SCALE: AS NOTED

PARTIAL ENLARGED RR 106 & 107 PLAN

6

SCALE: AS NOTED

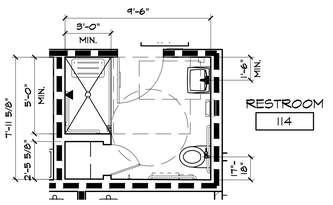


RESTROOM 107

RESTROOM 106

SCALE: 1/2"=1'-0"

RESTROOM 114

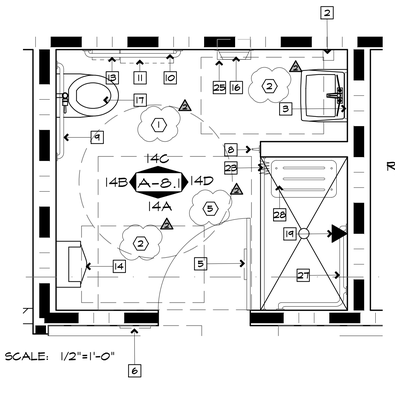


SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 114 PLAN

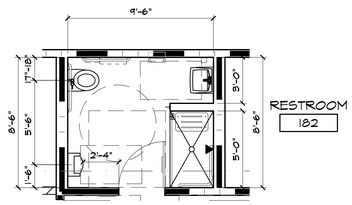
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SCALE: AS NOTED



RESTROOM 182

SCALE: 1/2"=1'-0"



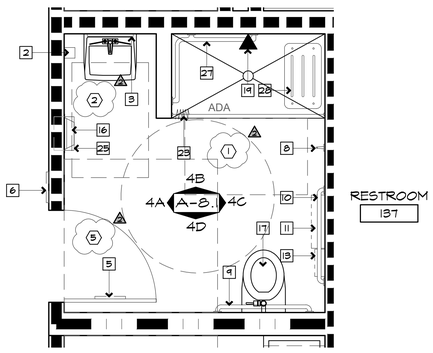
RESTROOM 182

SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 182 PLAN

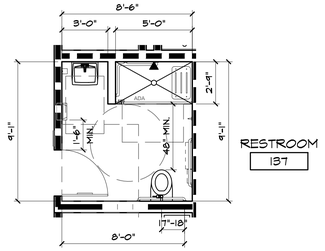
20

SCALE: AS NOTED



RESTROOM 137

SCALE: 1/2"=1'-0"



RESTROOM 137

SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 137 PLAN

10

SCALE: AS NOTED

PARTIAL ENLARGED PLAN KEY NOTES

1. 5'-0" DIA. CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
2. 30" x 48" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
3. FLOOR TRENCH DRAIN, SEE PLUMBING DRAWINGS.
4. PROVIDE ALL REQUIRED DIMENSIONS AS NOTED IN CONFIGURATION AS ON DETAIL 5/ACC-3.
5. 5'-0" x 5'-0" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.

NOTE:
1. REFER TO LARGE SCALE ENLARGED PLANS, THIS AREA, FOR ADDITIONAL INFORMATION, SEE DETAIL 8, THIS SHEET.

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LICENSED ARCHITECT
LORENT J. DELLA MARIA
#C 21632
Exp. 01/31/27
STATE OF CALIFORNIA

CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

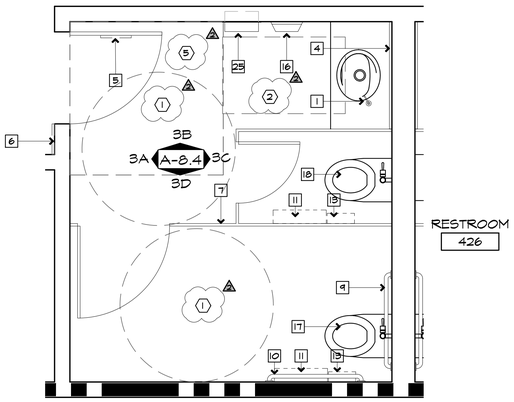
ENLARGED RESTROOMS PLANS & NOTES ROOMS 106, 107, 114, 137, 162, 175 & 182

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	DAE	6/12/26

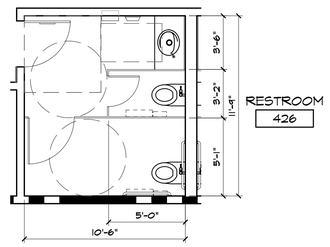
Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

A-7.3



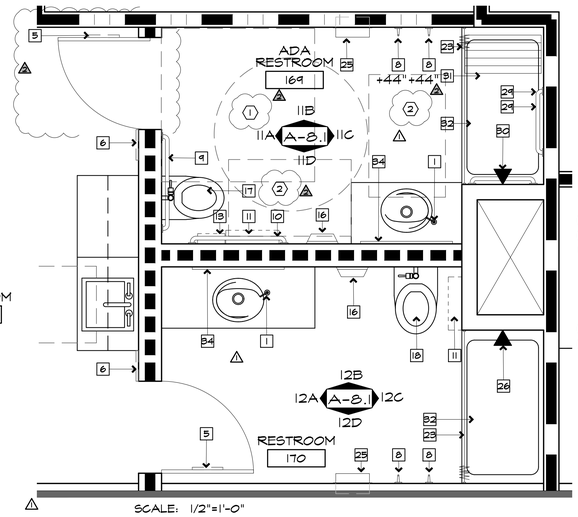
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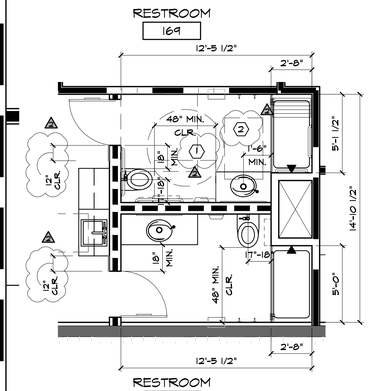
SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 426 PLAN 16

SCALE: AS NOTED



SCALE: 1/2"=1'-0"



SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 169 & 170 PLAN 6

SCALE: AS NOTED

GENERAL TOILET ROOM NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH OR CENTERLINE OF FIXTURE AS INDICATED.
2. PROVIDE NEW BELOW COUNTER TRAP AND HOT WATER INSULATION PER DETAIL 4/A-11.1 TYPICAL THROUGHOUT.
3. REFER TO DETAIL 3/A-11.1 FOR TYPICAL ACCESSORY INSTALLATION.
4. REFER TO FINISH PLANS FOR FINISH SPECIFICATIONS AND LEGEND ON SHEET A-4.1 AND A-4.2.
5. CONTRACTOR TO V.I.F. ALL DIMENSIONS PRIOR TO THE WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
6. REFER TO PLUMBING ENGINEERING DRAWINGS FOR FIXTURE SCHEDULE, SPECIFICATIONS OF WATER CLOSETS, URINAL, LAVATORIES, FAUCETS AND INFORMATION NOT SHOWN HERE.
7. REFER TO RESTROOM ACCESSORIES LEGEND, THIS SHEET FOR SPECIFICATIONS.
8. REFER TO 19/A-11.1 FOR TYPICAL FIXTURE LOCATIONS, GRAB BAR CONFIGURATIONS AND ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.
9. SEE SHOWER CURB, DRAIN AND SILL DETAILS 16-19 & 21-23, SHEET A-12.2.

RESTROOM ACCESSORIES LEGEND

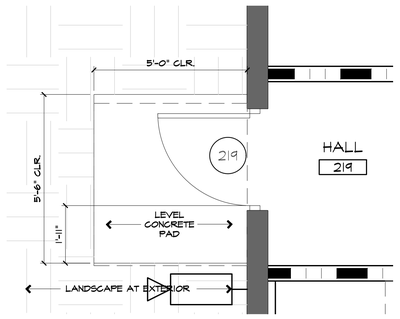
1. PROVIDE COUNTER MOUNTED AUTOMATIC SENSOR SOAP DISPENSER: BOBRICK: B-824
2. WALL MOUNTED AUTOMATIC SENSOR SOAP DISPENSER: BOBRICK: B-2012
3. MIRROR: BOBRICK #B-290-1836 SERIES (OR EQUAL), 18" W. x 36" H. BOTTOM OF REFLECTIVE SURFACE @ +40" A.F.F.
4. MIRROR: BOBRICK #B-290 SERIES (OR EQUAL) FULL WIDTH x 44" H. BOTTOM OF REFLECTIVE SURFACE @ +40" A.F.F.
5. DOOR MOUNTED SIGN, SEE DETAILS 14 & 15/A-11.1.
6. WALL MOUNTED SIGN, SEE DETAIL 4/A-11.1.
7. SCRANTON, FLOOR MOUNTED OVERHEAD BRACED HIGH DENSITY PLASTIC TOILET PARTITIONS (TP-1) AND/OR SHOWER PARTITIONS (SP-1). AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9" MIN. ABOVE FINISH FLOOR AND 6" DEEP MIN. BEYOND COMPARTMENT SIDE FACE OF PARTITION. SEE FINISH LEGEND ON SHEET A-4.1.
8. TOWEL HOOK: BOBRICK #B-2116 TYP. AT EACH SHOWER STALL. MOUNT AT + 44" MAX. A.F.F. @ ACCESSIBLE STALL, 60" A.F.F. @ STANDARD STALL. (2) HOOKS PER STALL.
9. GRAB BAR: BOBRICK #B-5806X36 OR EQUAL, 36" L. REAR MOUNTED PER DETAIL 19/A-11.1.
10. GRAB BAR: BOBRICK #B-5806X48 OR EQUAL, 48" L. SIDE MOUNTED PER DETAIL 19/A-11.1.
11. SURFACE MOUNTED TOILET TISSUE DISPENSER: BOBRICK: B-2892
12. SURFACE MOUNTED TOILET SEAT COVER DISPENSER: BOBRICK: B-221.
13. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL: BOBRICK: B-254
14. ACCESSIBLE URINAL, SEE DETAIL 20/A-11.1 AND PLUMBING DRAWINGS.
15. STANDARD URINAL, SEE PLUMBING DRAWINGS.
16. WALL MOUNTED ELECTRIC HAND DRYER: BOBRICK: B-71.25 SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
17. ACCESSIBLE TOILET, SEE PLUMBING DRAWINGS AND 19/A-11.1.
18. STANDARD TOILET, SEE PLUMBING DRAWINGS.
19. ACCESSIBLE ADJUSTABLE SHOWER SPRAY UNIT WITH 59" LONG HOSE AND MIXING VALVE, SEE PLUMBING DRAWINGS.
20. STANDARD SHOWER SPRAY UNIT WITH MIXING VALVE, SEE PLUMBING DRAWINGS.
21. JANITOR'S SERVICE SINK 24" X 8" SEE PLUMBING DRAWINGS
22. REGENCY SPACE SOLUTIONS 24" LONG FIXED SHELF WITH UTILITY HOOKS, #600WSU824.
23. PROVIDE BOBRICK SHOWER OR TUB CURTAIN #204-3, ROD #B-6107X60, AND HOOKS #204-1.
24. PROVIDE SCRANTON, HEAVY DUTY COMMERCIAL GRADE SHOWER CURTAIN AND HOOKS SYSTEM TO WORK WITH SCRANTON SHOWER COMPONENTS. PROVIDE CUT SHEET TO ARCHITECTS FOR APPROVAL.
25. PROVIDE SEMI-RECESSED 12 GALLON TRASH RECEPTACLE. BOBRICK: B-3644.
26. ACCESSIBLE ADJUSTABLE TUB / SHOWER SPRAY UNIT, SEE PLUMBING DRAWINGS.
27. BOBRICK B-58616 TWO-WALL GRAB BAR, 1-1/4" DIA. 24" X 36", SEE DETAIL 5/A-11.1.
28. BOBRICK B-5193 RECTANGULAR FOLDING SHOWER SEAT, SEE DETAIL 8/A-11.1.
29. GRAB BAR: BOBRICK #B-5806X24 OR EQUAL, 24"L. AT ADA TUB. SEE DETAIL 5/A-11.1.
30. GRAB BAR: BOBRICK #B-5806X18 OR EQUAL, 18"L AT ADA TUB. SEE DETAIL 5/A-11.1.
31. TUB SEAT: SEACHROME, #STSB-300150-TMA, REMOVABLE SEAT, 30"x15" WITH ADJUSTABLE POSTS.
32. ACCESSIBLE TUB, SEE PLUMBING DRAWINGS.
33. STAINLESS STEEL SHELF: BOBRICK #B-245 SERIES, FULL WIDTH PER PLAN X 5"D.
34. WOOD WALL MIRROR: WAYFAIR.COM, CASTIN SOLID WOOD FLAT WALL MIRROR 36" X 36", SKU WIII006849 COLOR: BLACK

PARTIAL ENLARGED PLAN KEY NOTES

1. 5'-0" DIA. CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
2. 30" x 48" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.
3. FLOOR TRENCH DRAIN, SEE PLUMBING DRAWINGS.
4. PROVIDE ALL REQUIRED DIMENSIONS AS NOTED IN CONFIGURATION AS ON DETAIL 5/ACC-3.
5. 5'-0" x 5'-0" CLEAR FLOOR AREA CLEAR OF OBJECTS FROM FLOOR TO +27" A.F.F. TYP. SEE ACC-3 FOR CLEAR DIMENSIONS.

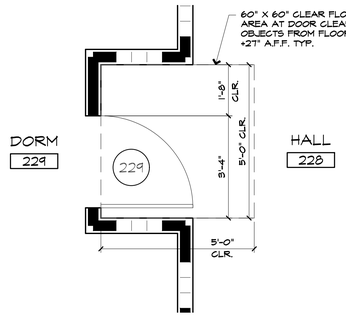
NOTE:

1. REFER TO LARGE SCALE ENLARGED PLANS, THIS AREA, FOR ADDITIONAL INFORMATION, SEE DETAIL 8, THIS SHEET.



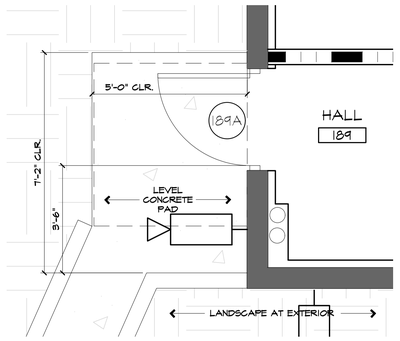
DOOR PLAN - RM. 219 23

SCALE: 1/2"=1'-0"



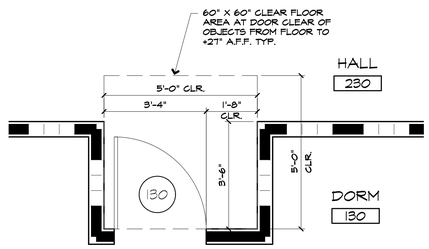
DOOR PLAN - RM. 229 14

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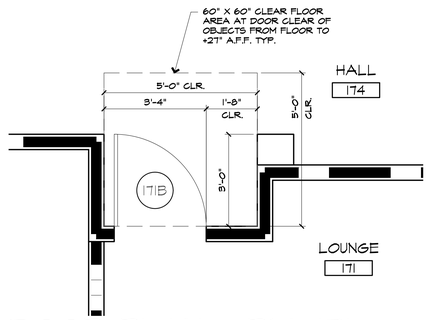
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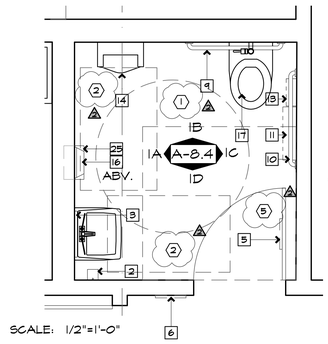
DOOR PLAN - RM. 189 15

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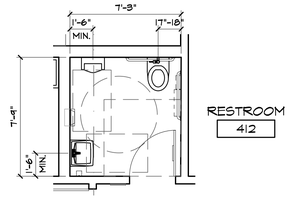


DOOR PLAN - RM. 171 19

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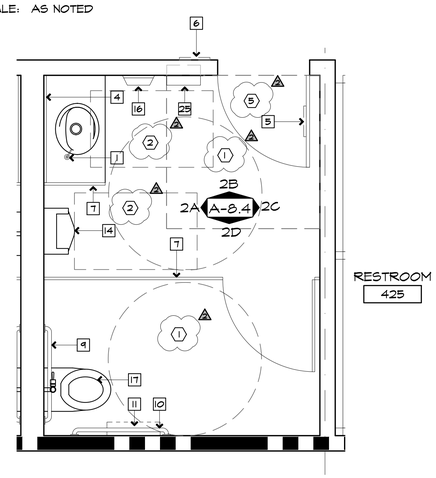
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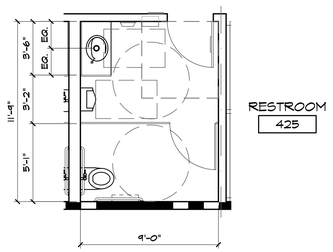
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PARTIAL ENLARGED RR 412 PLAN 8

SCALE: AS NOTED



SCALE: 1/2"=1'-0"



SCALE: 1/4"=1'-0"

PARTIAL ENLARGED RR 425 PLAN 10

SCALE: AS NOTED

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LICENSED ARCHITECT LORENZ L. DELLA MARIA #C 21632 Exp. 08/31/27 STATE OF CALIFORNIA

CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

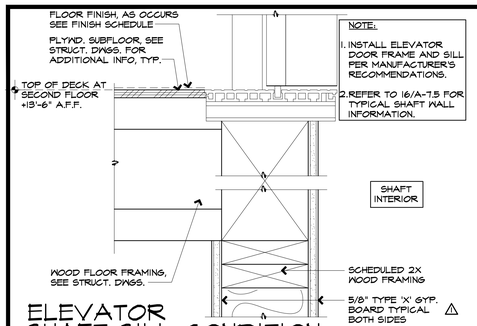
ENLARGED RESTROOMS PLANS & NOTES ROOMS 169, 170 412, 425 & 426

Revisions	By	Date
1 FC CORR 1/BID ISSUE 1	DAE	4/29/26
2 FC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

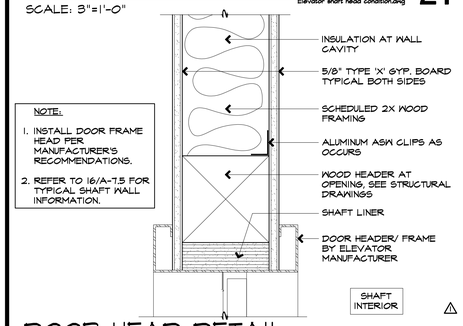
A-7.4



ELEVATOR SHAFT SILL CONDITION 21

Elevator shaft head condition.dwg

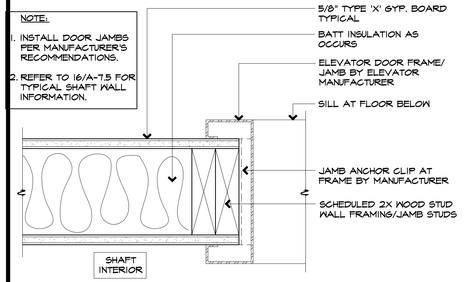
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DOOR HEAD DETAIL 22

Elevator door head detail.dwg

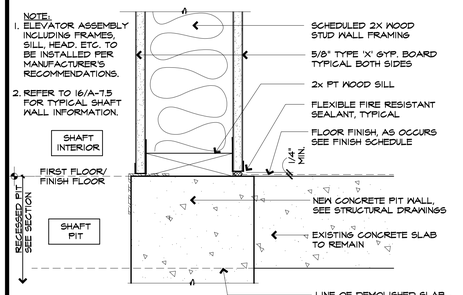
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ELEVATOR SHAFT DOOR JAMB 23

Elevator shaft door jamb.dwg

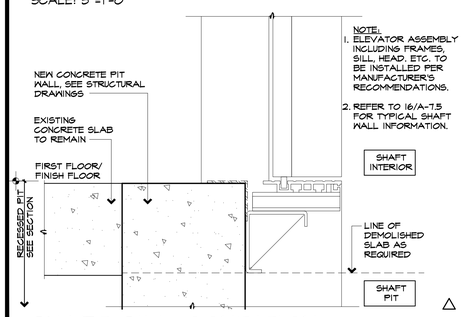
SCALE: 3"=1'-0"



SHAFT SILL CONDITION 24

Elevator shaft head condition.dwg

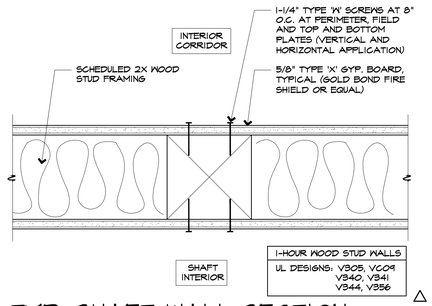
SCALE: 3"=1'-0"



SHAFT SILL CONDITION 25

Shaft Sill Condition-1.dwg

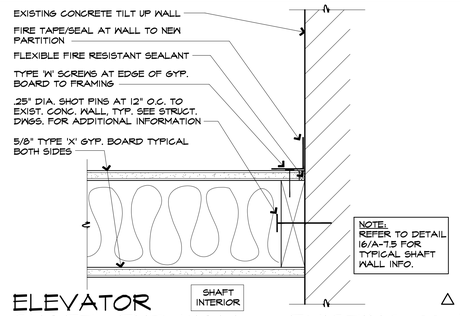
SCALE: 3"=1'-0"



TYP. SHAFT WALL SECTION 16

Typ shaft wall sec.dwg

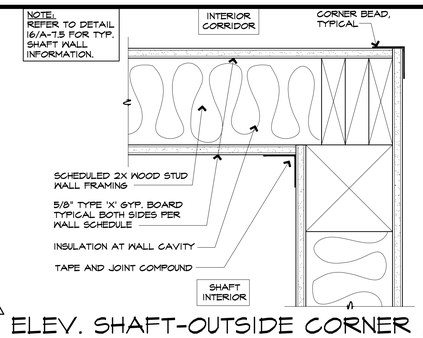
SCALE: 3"=1'-0"



ELEVATOR SHAFT- END WALL @ EXISTING 11

Elevator shaft end wall.dwg

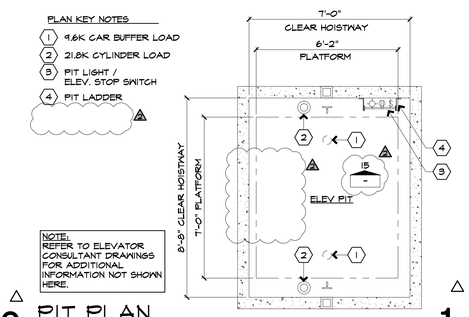
SCALE: 3"=1'-0"



ELEV. SHAFT-OUTSIDE CORNER 6

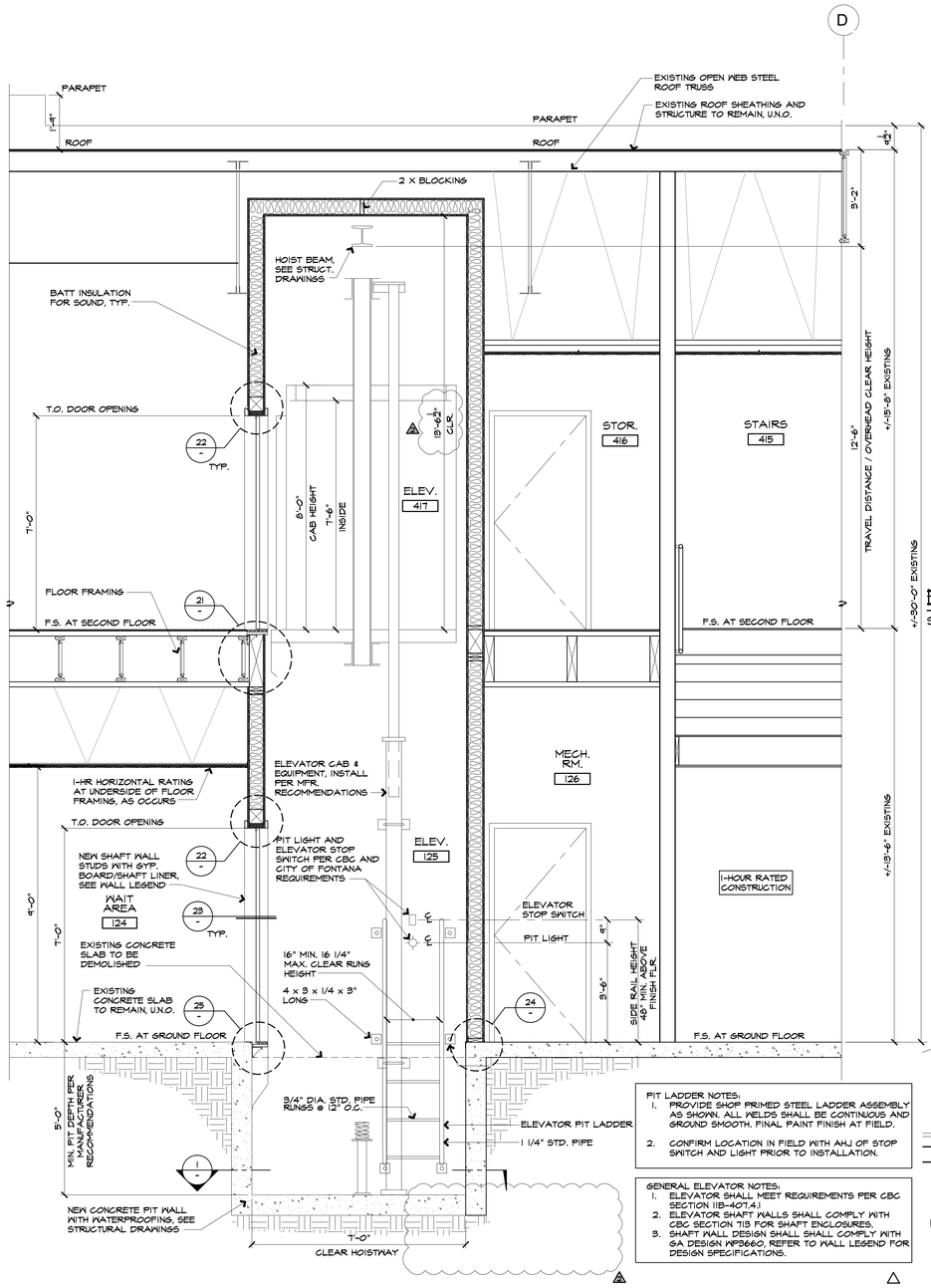
Elevator shaft outside corner.dwg

SCALE: 3"=1'-0"



PIT PLAN 1

SCALE: 3/8" = 1'-0"

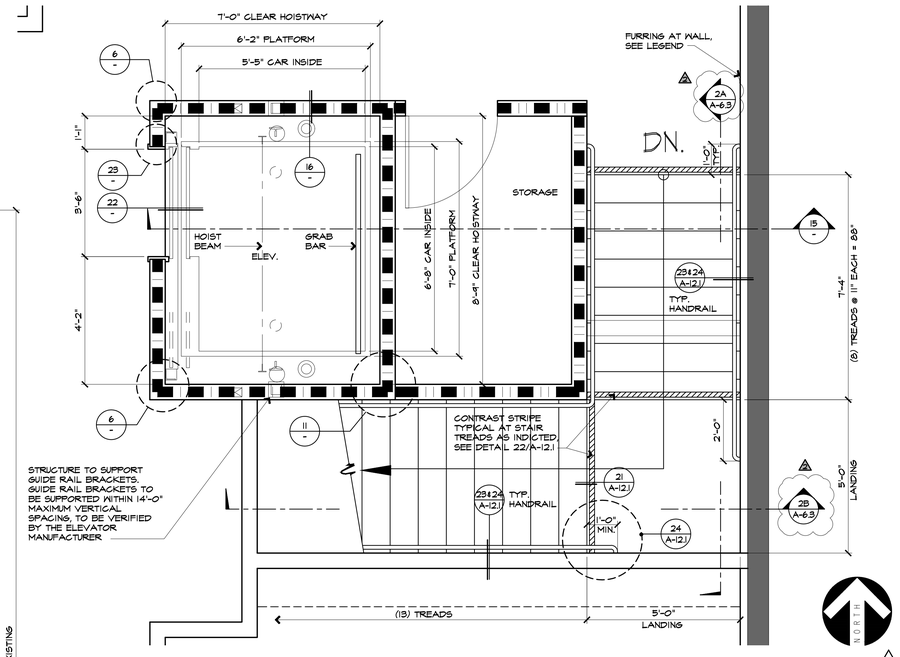


PIT LADDER NOTES:
1. PROVIDE SHOP PRIMED STEEL LADDER ASSEMBLY AS SHOWN. ALL WELDS SHALL BE CONTINUOUS AND GROUND SMOOTH. FINAL PAINT FINISH AT FIELD.
2. CONFIRM LOCATION IN FIELD WITH AHJ OF STOP SWITCH AND LIGHT PRIOR TO INSTALLATION.

GENERAL ELEVATOR NOTES:
1. ELEVATOR SHALL MEET REQUIREMENTS PER CBC SECTION 11B-407.4.1
2. ELEVATOR SHAFT WALLS SHALL COMPLY WITH CBC SECTION 713 FOR SHAFT ENCLOSURES.
3. SHAFT WALL DESIGN SHALL SHALL COMPLY WITH GA DESIGN WP3660. REFER TO WALL LEGEND FOR DESIGN SPECIFICATIONS.

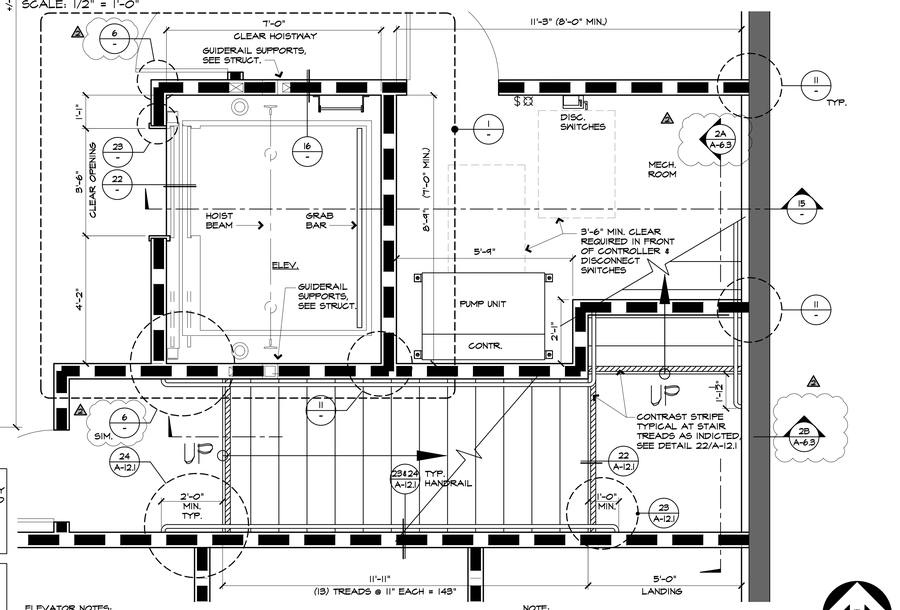
SECTION THRU ELEVATOR SHAFT 15

SCALE: 1/2" = 1'-0"



ELEVATOR SHAFT-SECOND FLOOR 3

SCALE: 1/2" = 1'-0"



ELEVATOR NOTES:
1. ELEVATOR SHALL MEET REQUIREMENTS PER CBC SECTION 11B-407.4.1
2. ELEVATOR SHAFT WALLS SHALL COMPLY WITH CBC SECTION 713 FOR SHAFT ENCLOSURES.
3. REFER TO WALL LEGEND FOR SHAFT WALL SPECIFICATIONS.

NOTE:
1. INSTALL ELEVATOR & EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
2. ELEVATOR CAB INSIDE DIMENSIONS: 6'-8" X 5'-5" X 7'-6".
3. SEE STRUCTURAL SHEETS FOR STAIR DETAILS.
4. PROVIDE ABC TYPE FIRE EXTINGUISHER AT MACHINE ROOM.

ELEVATOR SHAFT-FIRST FLOOR 5

SCALE: 1/2" = 1'-0"

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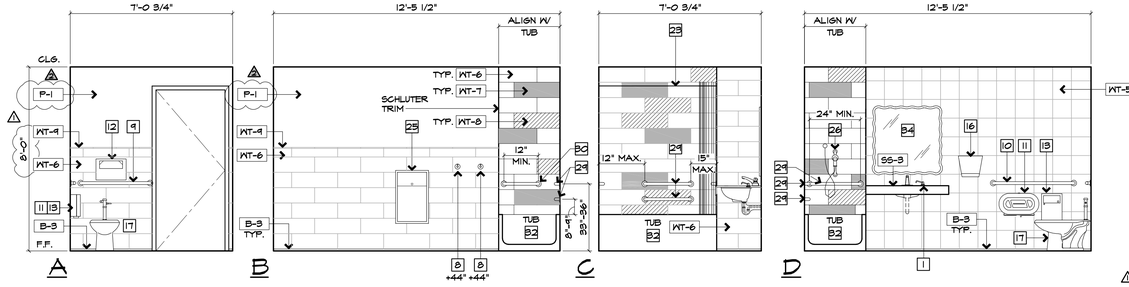
ELEVATOR PLANS, SECTIONS & DETAILS

Revisions	By	Date
1 PC CORRECTIONS	DAE	
2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

Sheet

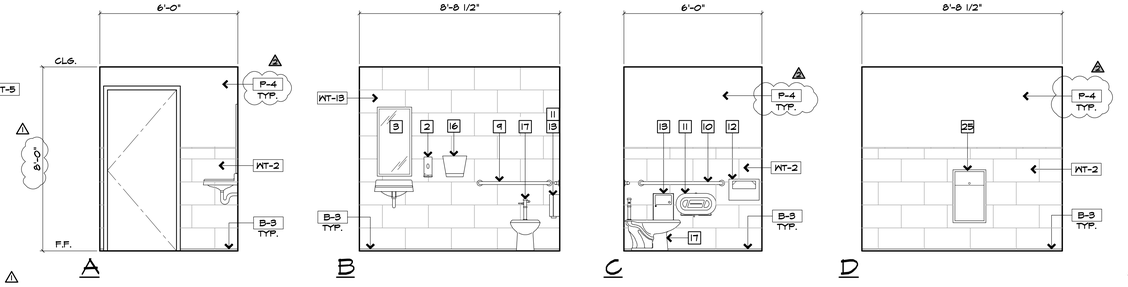
A-7.5



RESTROOM 169

SCALE: 3/8"=1'-0"

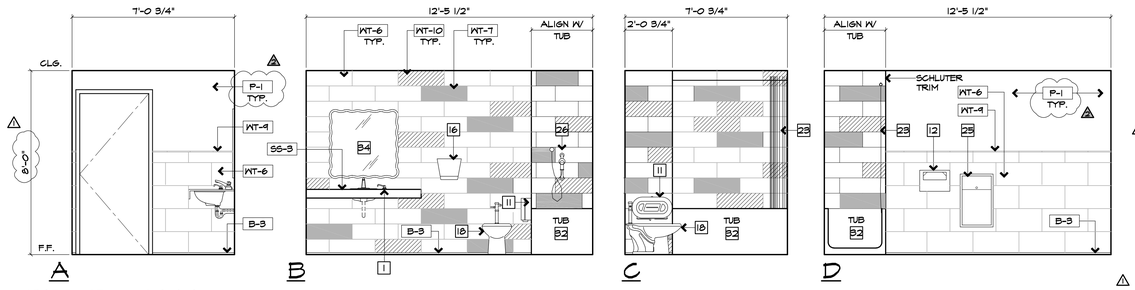
11



RESTROOM 106

SCALE: 3/8"=1'-0"

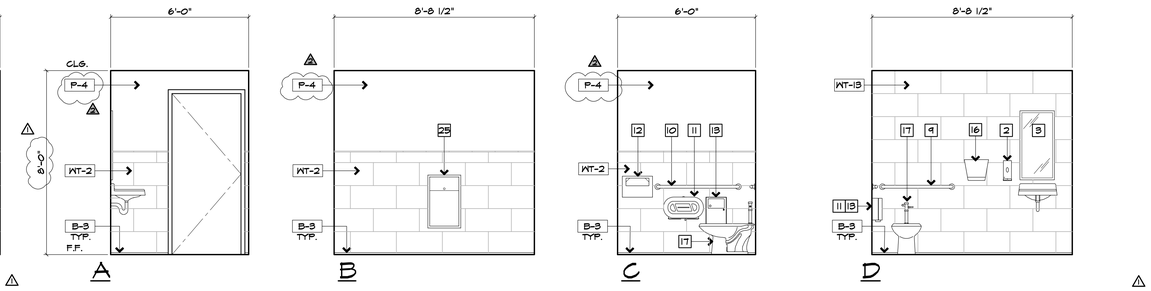
1



RESTROOM 170

SCALE: 3/8"=1'-0"

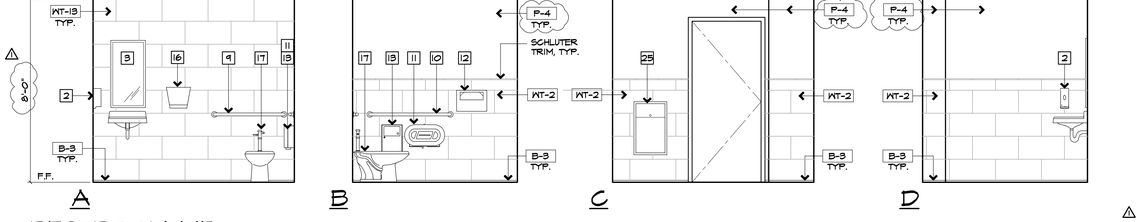
12



RESTROOM 107

SCALE: 3/8"=1'-0"

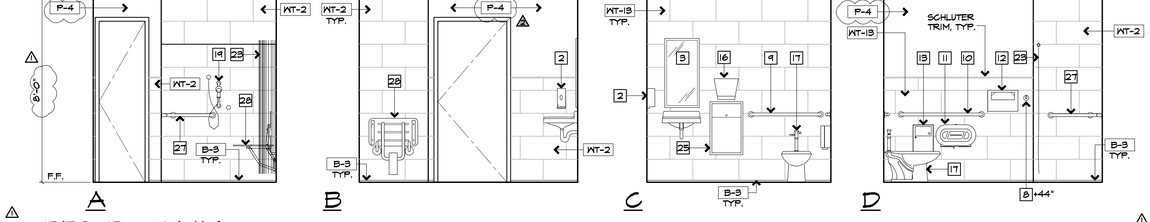
2



RESTROOM 175

SCALE: 3/8"=1'-0"

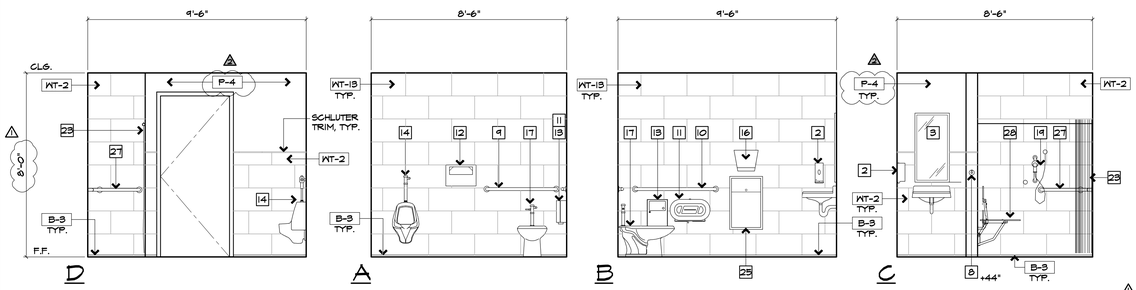
13



RESTROOM 114

SCALE: 3/8"=1'-0"

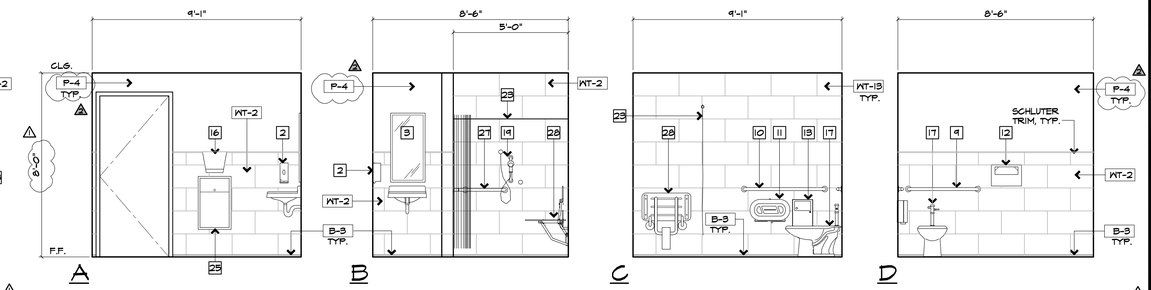
3



RESTROOM 182

SCALE: 3/8"=1'-0"

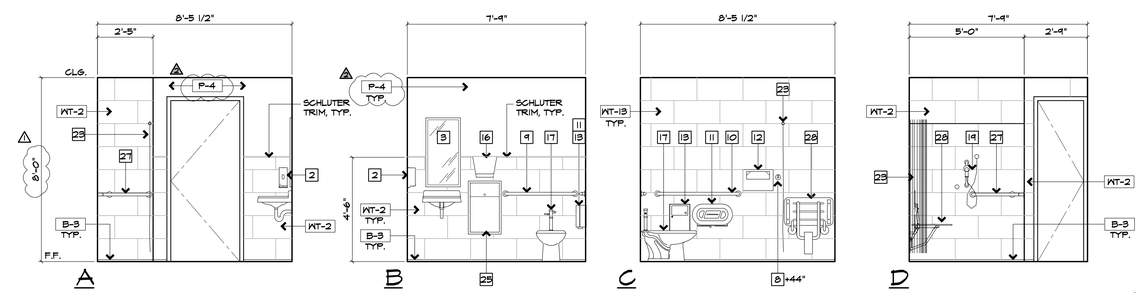
14



RESTROOM 137

SCALE: 3/8"=1'-0"

4



RESTROOM 162

SCALE: 3/8"=1'-0"

5

NOTE:

REFER TO SHEET A-7.1 FOR RESTROOM ACCESSORIES LEGEND.

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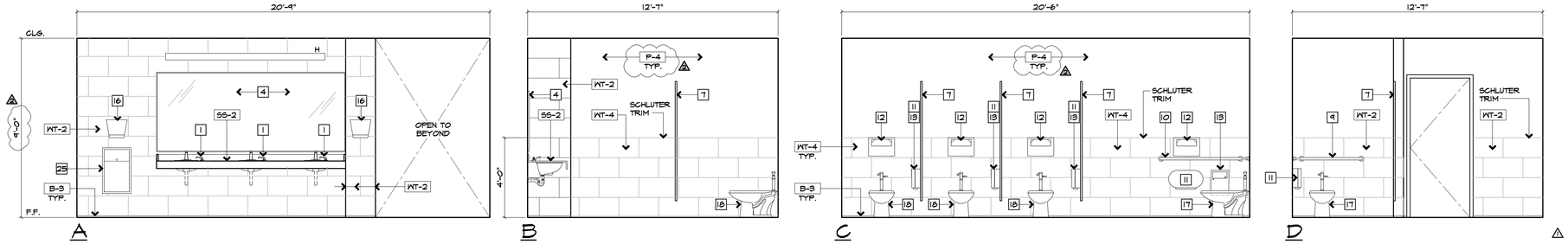
RESTROOM INTERIOR ELEVATIONS
106, 107, 114, 137, 162, 169, 170, 175 & 182

Revisions	By	Date
1 FC CORR 1/BID ISSUE	DAE	4/29/26
2 FC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

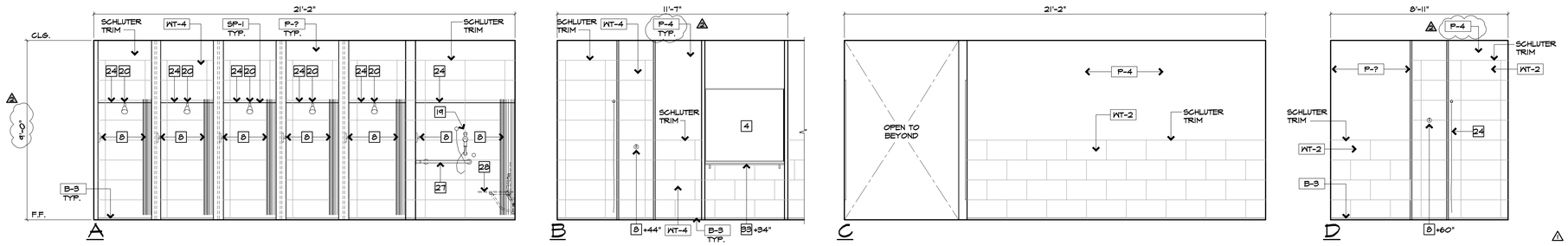
A-8.1



WOMEN RESTROOM RM. 135

SCALE: 3/8"=1'-0"

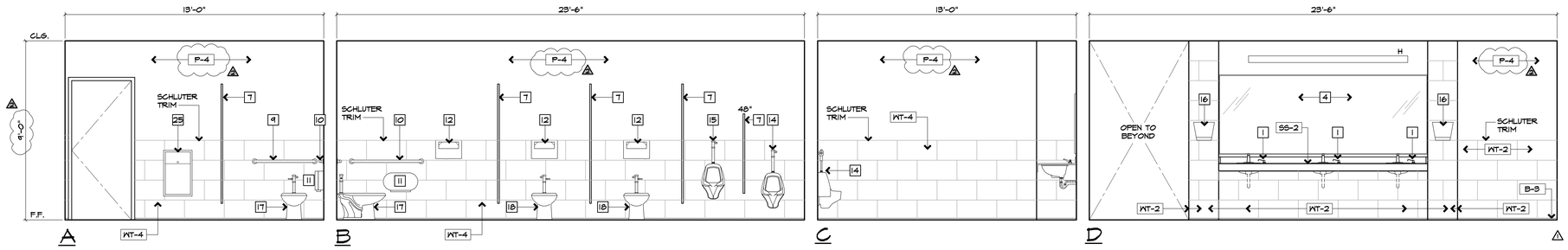
1



WOMEN SHOWER RM. 135

SCALE: 3/8"=1'-0"

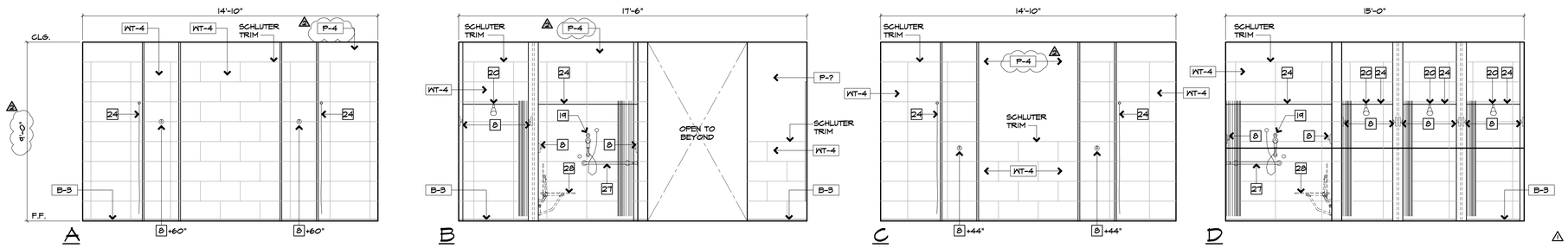
2



RESTROOM - MEN RM. 138

SCALE: 3/8"=1'-0"

3



RESTROOM - MEN'S SHOWER RM. 138

SCALE: 3/8"=1'-0"

4

NOTE:

REFER TO SHEET A-7.1 FOR RESTROOM ACCESSORIES LEGEND.

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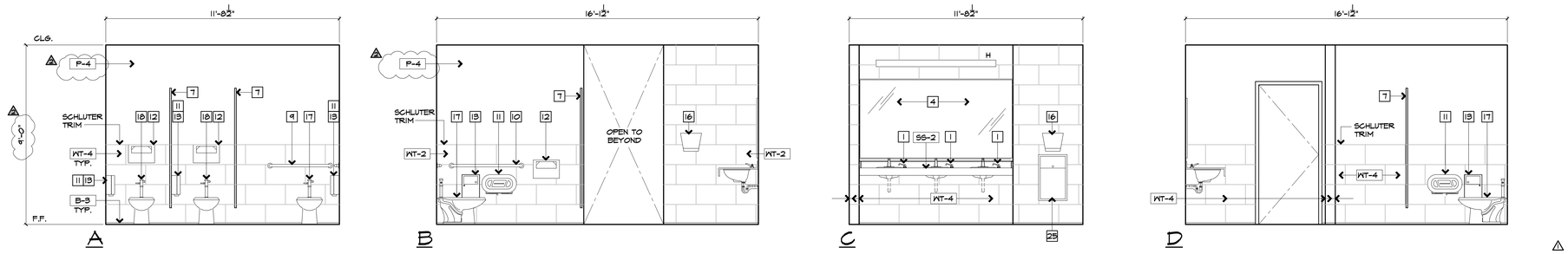
RESTROOM INTERIOR ELEVATIONS 135 & 138

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

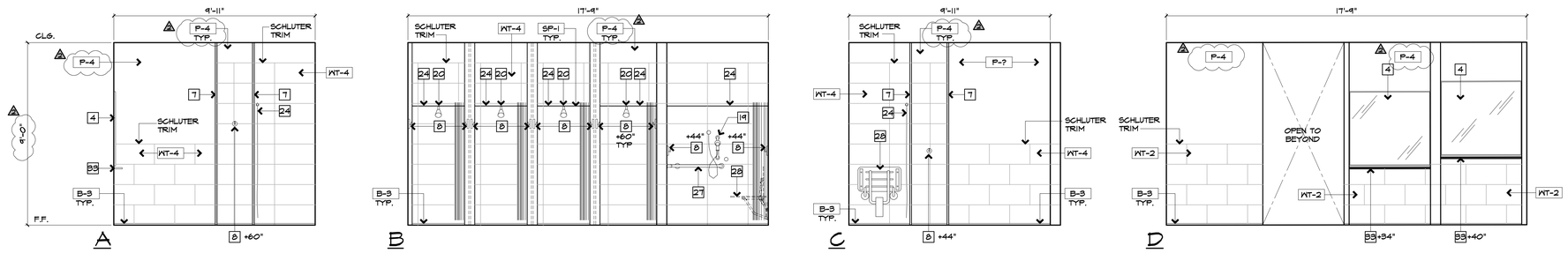
Sheet

A-8.2



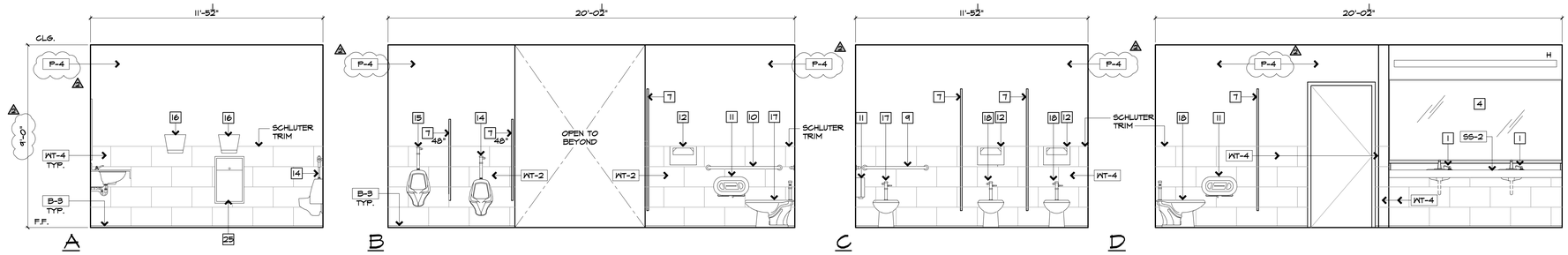
WOMEN'S RESTROOM 179

SCALE: 3/8"=1'-0" 1



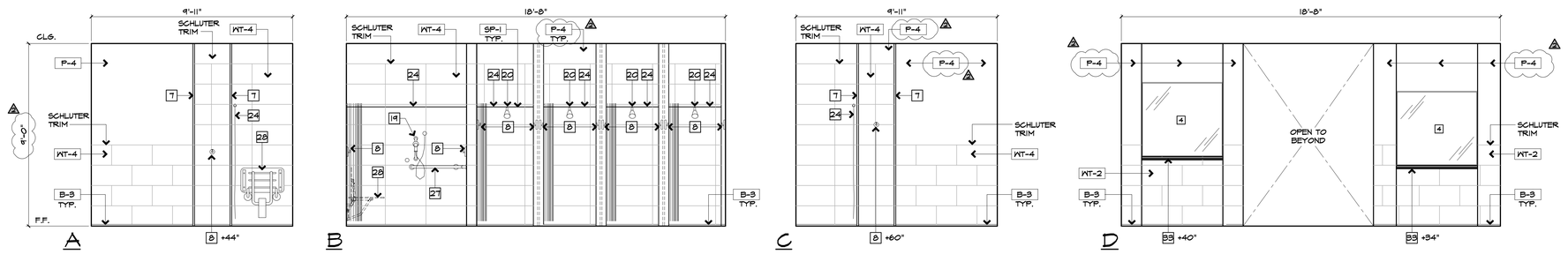
WOMEN'S RESTROOM 179

SCALE: 3/8"=1'-0" 2



MEN'S RESTROOM 180

SCALE: 3/8"=1'-0" 3



MEN'S RESTROOM 180

SCALE: 3/8"=1'-0" 4

NOTE:

REFER TO SHEET A-7.1 FOR RESTROOM ACCESSORIES LEGEND.

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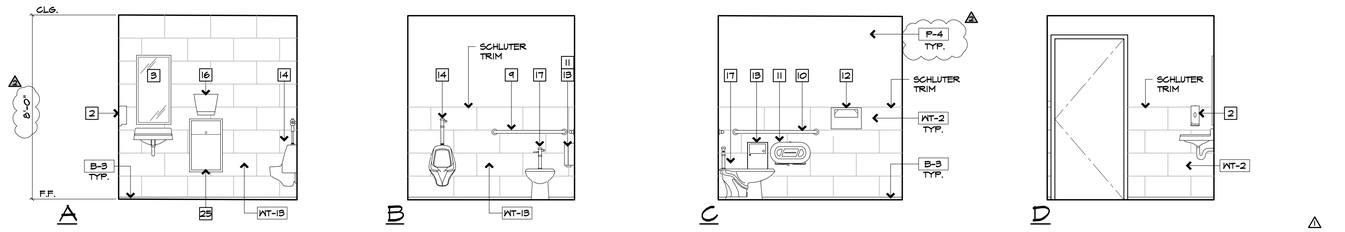
RESTROOM INTERIOR ELEVATIONS 179 & 180

Revisions	By	Date
1 FC CORR 1/BID ISSUE 1	DAE	4/29/26
2 FC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

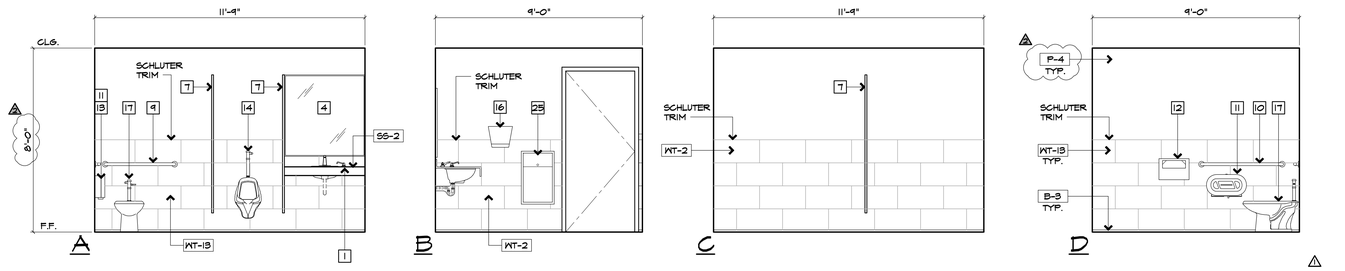
Sheet

A-8.3



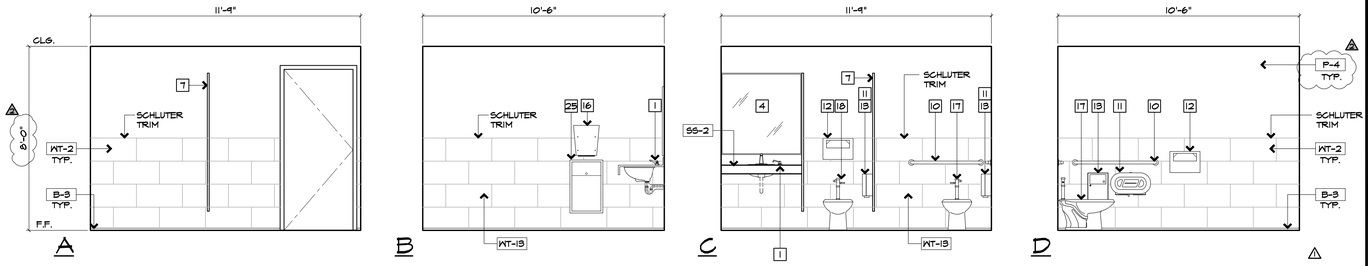
RESTROOM 412

SCALE: 3/8"=1'-0" — 1



RESTROOM 425

SCALE: 3/8"=1'-0" — 2



RESTROOM 426

SCALE: 3/8"=1'-0" — 3

NOTE:

REFER TO SHEET A-7.1 FOR RESTROOM ACCESSORIES LEGEND.

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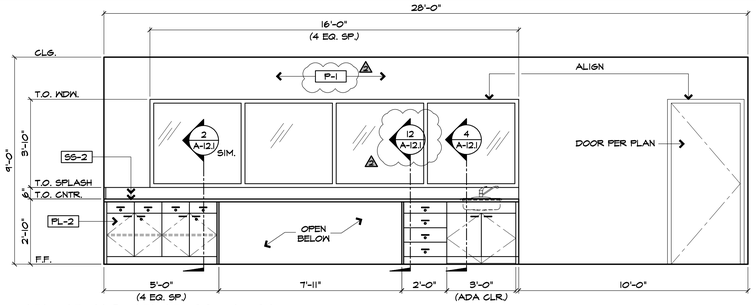
RESTROOM INTERIOR ELEVATIONS 412, 425 & 426

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

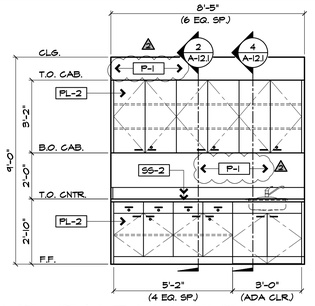
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A-8.4



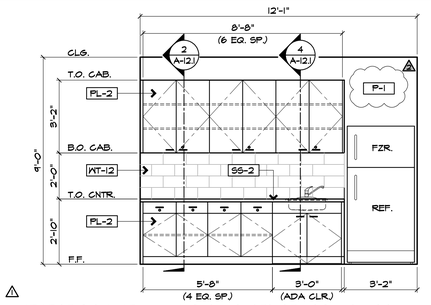
OPEN OFICE 118 ELEVATION — 11

SCALE: 3/8"=1'-0"



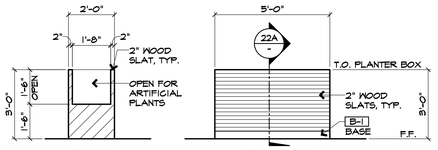
HOME HEALTH 115 ELEV. (RM. 116 OPP. SIM.) — 6

SCALE: 3/8"=1'-0"



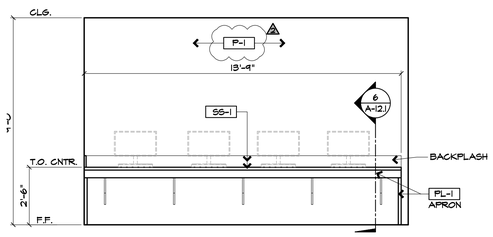
BREAK ROOM 101 ELEVATION — 1

SCALE: 3/8"=1'-0"



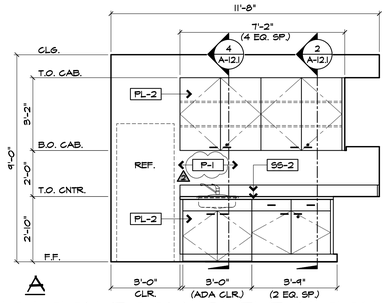
PLANTER BOX AT HALL 156 — 22

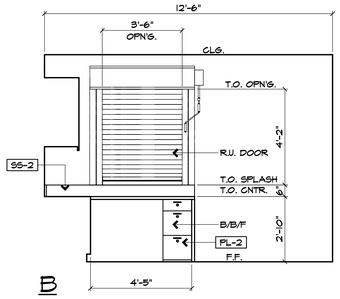
SCALE: 3/8"=1'-0"



LOUNGE 123 ELEVATION — 17

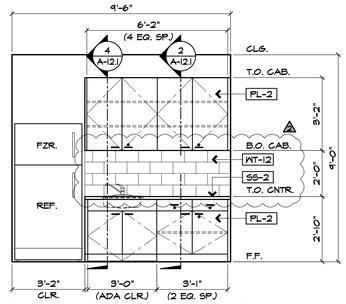
SCALE: 3/8"=1'-0"





MEDICATION ROOM 121 ELEVATION — 7

SCALE: 3/8"=1'-0"



BREAK AREA 119 ELEVATION — 2

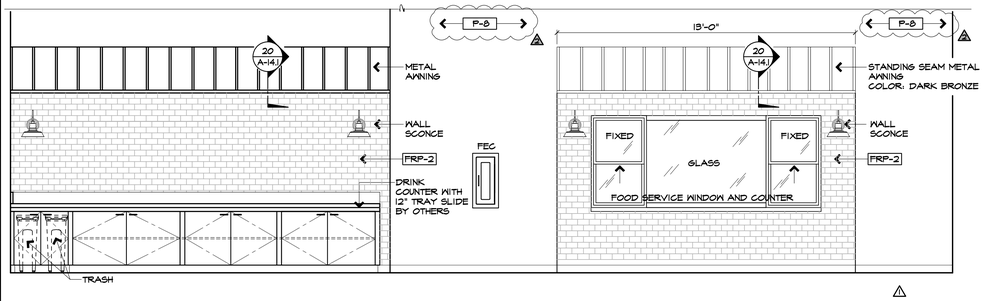
SCALE: 3/8"=1'-0"

LOUNGE 155 ELEVATION — 18

SCALE: 3/8"=1'-0"

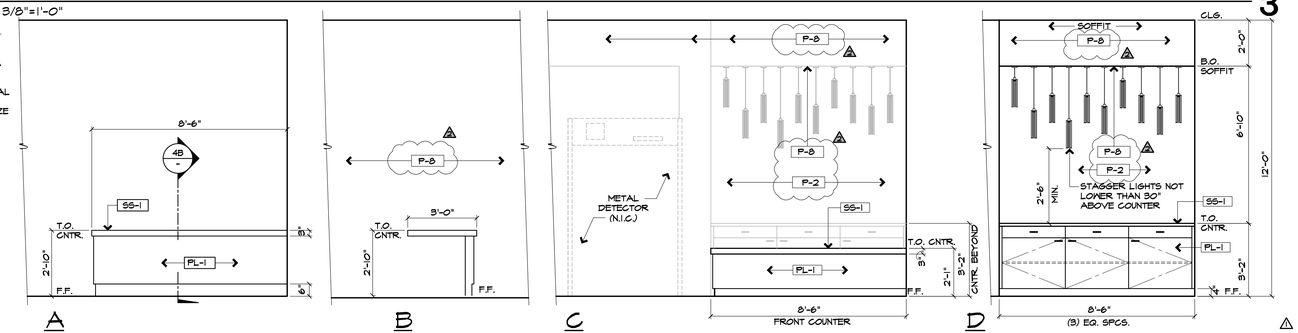
LOBBY #2 RM. 122 ELEVATION — 3

SCALE: 3/8"=1'-0"



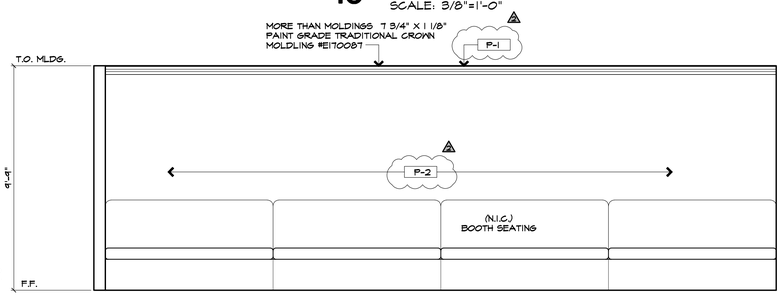
DINING 157 KITCHEN WINDOW AND DRINK COUNTER ELEVATION — 19

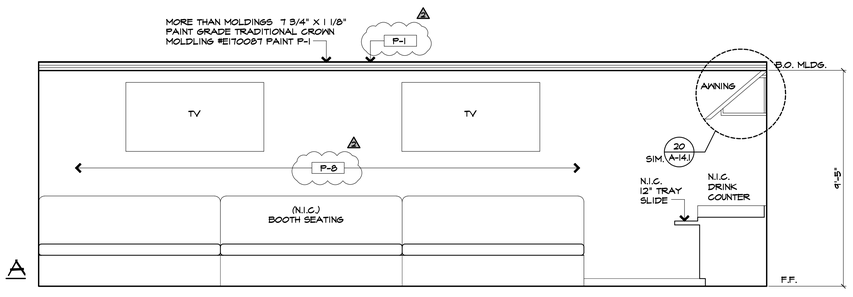
SCALE: 3/8"=1'-0"



ENTRY AREA 161 ELEVATION — 4

SCALE: 3/8"=1'-0"





DINING 157 BANQUETTE ELEVATION — 5

SCALE: 3/8"=1'-0"

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PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

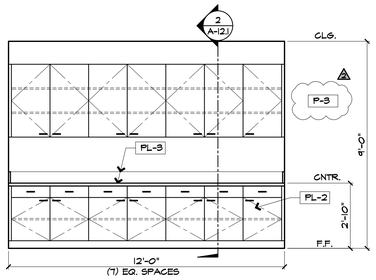
1ST FLOOR MILLWORK ELEVATIONS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

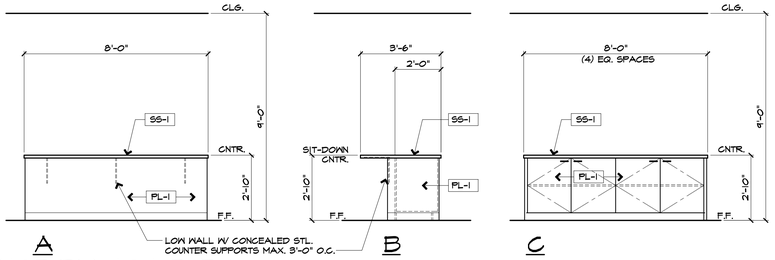
A-9.1



WORK RM 406 ELEV

SCALE: 3/8"=1'-0"

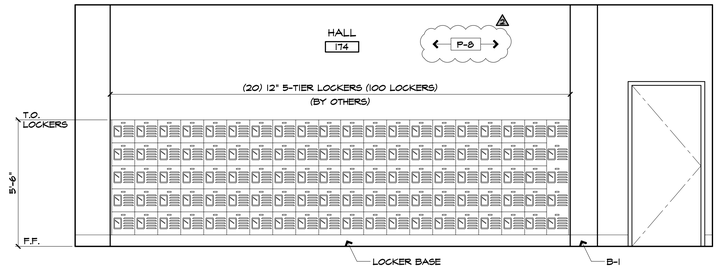
21



LOUNGE RM 404 ELEV

SCALE: 3/8"=1'-0"

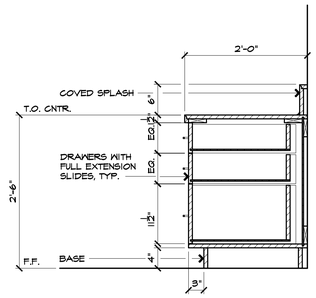
11



HALL 174 - LOCKER WALL ELEVATION (HALL 228 SIM.)

SCALE: 3/8"=1'-0"

1

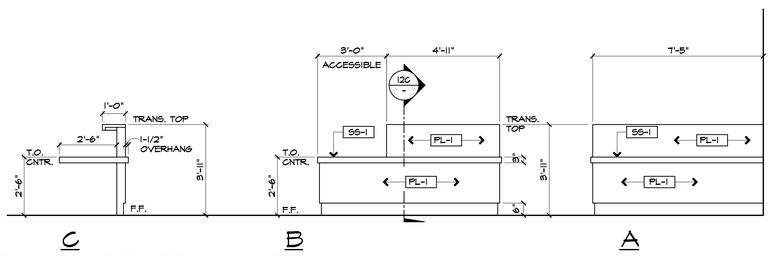


CABINET SECTION

SCALE: 1"=1'-0"

CABSECT20.dwg
DIY-06

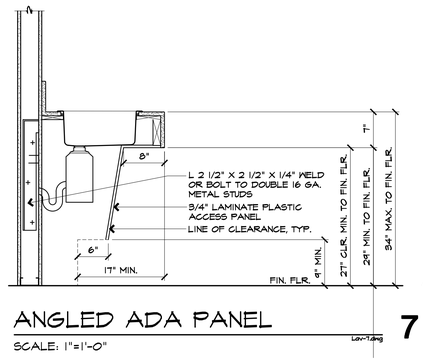
22



LOBBY 420 RECEPTION DESK

SCALE: 3/8"=1'-0"

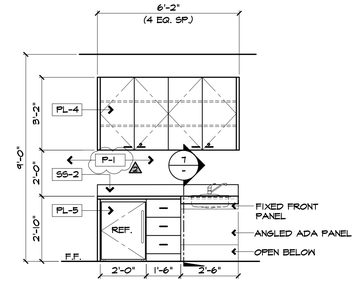
12



ANGLED ADA PANEL

SCALE: 1"=1'-0"

7



SNACK AREA 171 ELEVATION

SCALE: 3/8"=1'-0"

2

DRINKING FOUNTAIN

SCALE: 3/8"=1'-0"

18

LOUNGE 171 ELEVATION

SCALE: 3/8"=1'-0"

13

OFFICE 178 ELEVATION

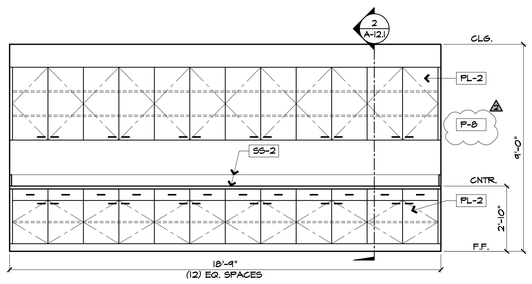
SCALE: 3/8"=1'-0"

8

OFFICE 178 ELEVATION

SCALE: 3/8"=1'-0"

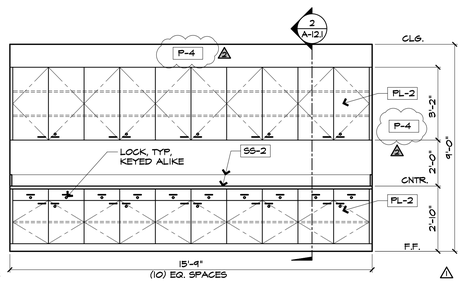
3



TRAINING RM 419 ELEV

SCALE: 3/8"=1'-0"

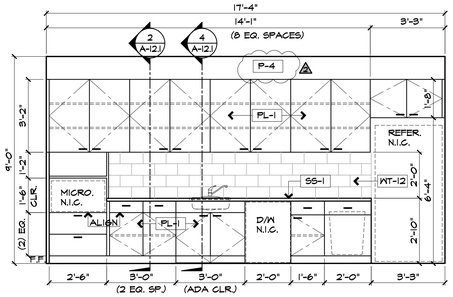
14



CONFERENCE RM 418 ELEV

SCALE: 3/8"=1'-0"

9



LOUNGE RM 404 ELEV

SCALE: 3/8"=1'-0"

4

ELEVATOR ELEVATION - 1ST FLOOR

SCALE: 3/8"=1'-0"

10

OFFICE 177 ELEVATION

SCALE: 3/8"=1'-0"

5

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PROJECT

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FOR

FONTANA
CALIFORNIA

TITLE

1ST & 2ND FLOOR MILLWORK ELEVATIONS

Revisions	By	Date
1 FC CORR 1/BID ISSUE	DAE	4/14/26
2 FC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

Sheet

A-9.2

DOOR & WINDOW SCHEDULE

FIRST FLOOR - RESIDENTIAL / OFFICE

DOOR NO.	DOOR: SIDELIGHT WIDTH	DOOR: SIDELIGHT HEIGHT	DOOR SIZE: WIDTH	DOOR SIZE: HEIGHT	DOOR SIZE: THICK.	CORE MAT.	FACE MAT.	FRAME: TYPE	FRAME: GLASS	FRAME: MAT.	FRAME: DETAIL HEAD	FRAME: DETAIL JAMB	FRAME: DETAIL SILL	LABEL	HARDWARE: TYPE NO.	HARDWARE: CLSR.	REMARKS
100A	-	-	3'-0"	7'-0"	-	AL	GL*	-	TEMP	AL	-	-	-	-	08	YES	EXISTING TO REMAIN, PH, CARD READER
100B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	30	YES	CARD READER
101	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	9	-	LOCK-OFFICE
102	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	I	-	AL	-	-	-	-	9	-	LOCK-OFFICE, CARD READER
103	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	32	-	LOCK-STORAGE, CARD READER
105	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	28	YES	LOCK-STORAGE, CARD READER
106	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	10	YES	PRIVACY
107	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	10	YES	PRIVACY
108A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	21	YES	LOCK-CLASSROOM
108B	-	-	3'-6"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	28	YES	CARD READER
109	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	32	YES	LOCK-STORAGE, CARD READER
110	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN	34	YES	LOCK-STORAGE, KICKPLATE (BOTH SIDES), CR
111A	-	-	3'-6"	7'-0"	1 3/4"	HM	PAINT GD	C	-	HM	-	-	-	-	07	YES	LOCK-ENTRY, PH, CARD READER
111B	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	TEMP	AL	-	-	-	20 MIN	13	YES	PH, 8"X32" VISION PANEL EA. DR.
112	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	33	-	LOCK-STORAGE, CARD READER
113	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	32	-	LOCK-JANITOR, CARD READER
114A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	11	YES	PRIVACY LOCK
114B	-	-	2'-0"	7'-0"	1 3/4"	SC	PAINT GD	G		AL	-	-	-	-	37	-	LOCK-STORAGE
115	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	20	YES	LOCK-OFFICE
116	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	20	YES	LOCK-OFFICE
117A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	31	YES	CARD READER
117B	-	-	4'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	30	YES	CARD READER
118A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	15	-	LOCK-OFFICE
118B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	31	YES	CARD READER
120	3'-0"	3'-6"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	M	-	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
121A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	16	YES	LOCK-OFFICE, DUTCH DOOR, CARD READER
121B	-	-	4'-0"	4'-2"	-	-	STL	O	-	STL	-	-	-	20 MIN	41	YES	FIRE RATED ROLL DOWN CURTAIN DOOR W/ FL & LOCK
122	-	-	PR 3'-0"	7'-0"	1 3/4"	AL	GL*	Q	TEMP	AL	-	-	-	-	02	YES	PH, CARD READER
123	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN	34-MHO	YES	CONFERENCE LATCHSET, MAG. HOLDERS
124	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	TEMP	AL	-	-	-	20 MIN	13	YES	PH, 8"X32" VISION PANEL EA. DR.
126	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	19	YES	LOCK-STORAGE, CARD READER
127	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	A	-	AL	-	-	-	20 MIN	17	YES	LOCK-STORAGE
128	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
129	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
130	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
131	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
132	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
133	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
134	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
135	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	36-2	YES	LATCHSET W/ KICKPLATE BOTH SIDES
136	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	32	-	LOCK-JANITOR, CARD READER
137	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	10	YES	PRIVACY LOCK
138	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	36-2	YES	LATCHSET W/ KICKPLATE BOTH SIDES
139	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
140	-	-	3'-0"	7'-0"	1 3/4"	SC	MTL	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
141	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
142	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	17	-	LOCK-STORAGE
144	1'-10"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	J	TEMP	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
145	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	I	TEMP	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
146	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	I	TEMP	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
147	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	17	YES	LOCK,-STORAGE, CARD READER
148	1'-4"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD	A	FIRE	AL	-	-	-	20 MIN.	24	YES	LATCHSET, 45 MIN. SIDELIGHT ASSEMBLY
149	1'-10"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	J	TEMP	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
150	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	I	TEMP	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
151	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	I	TEMP	AL	-	-	-	-	15	-	LOCK-OFFICE, CARD READER
152	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN.	34	YES	LOCK-STORAGE, CARD READER
153	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN.	34	YES	LOCK-STORAGE, CARD READER
154	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	TEMP	AL	-	-	-	20 MIN.	13-DE	YES	PH, 8"X32" VISION PANEL EA. DR.
157A	PR 1'-10"	7'-0"	PR 3'-0"	7'-0"	-	AL	GL*	E	TEMP	AL	-	-	-	-	02	YES	LOCK, PH, CARD READER
157B	PR 1'-10"	7'-0"	PR 3'-0"	7'-0"	-	AL	GL*	E	TEMP	AL	-	-	-	-	02	YES	LOCK, PH, CARD READER
158A	-	-	3'-6"	7'-0"	1 3/4"	HM	FLD PT MTL	C	-	HM	-	-	-	-	03	YES	LOCK-ENTRY
158B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	26	YES	CARD READER
159	PR 3'-0"	3'-6"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	K	TEMP	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
160	PR 3'-0"	3'-6"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	K	TEMP	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
161	PR 2'-10"	7'-0"	PR 3'-0"	7'-0"	-	AL	GL*	F	TEMP	AL	-	-	-	-	02	YES	LOCK, PH
162A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	11	YES	PRIVACY LOCK
162B	-	-	2'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	37	-	LOCK-STORAGE
163	-	-	PR 2'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	-	38	-	LOCK-STORAGE, CARD READER
164	-	-	PR 2'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	-	38	-	LOCK-STORAGE, CARD READER
165	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	27	YES	CARD READER
166	-	-	3'-0"	7'-0"	1 3/4"	HM	FLD PT MTL	P	-	HM	-	-	-	-	01	-	LOCK-CLASSROOM, CARD READER, KENNEL DOOR W/ LOUVERS
167	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	39	YES	LOCK-CLASSROOM

FIRST FLOOR - RESIDENTIAL / OFFICE

DOOR NO.	DOOR: SIDELIGHT WIDTH	DOOR: SIDELIGHT HEIGHT	DOOR SIZE: WIDTH	DOOR SIZE: HEIGHT	DOOR SIZE: THICK.	CORE MAT.	FACE MAT.	FRAME: TYPE	FRAME: GLASS	FRAME: MAT.	FRAME: DETAIL HEAD	FRAME: DETAIL JAMB	FRAME: DETAIL SILL	LABEL	HARDWARE: TYPE NO.	HARDWARE: CLSR.	REMARKS
168	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	39	YES	LOCK-CLASSROOM
169	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	10	YES	PRIVACY LOCK
170	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	10	YES	PRIVACY LOCK
~~171A~~	~~-~~	~~-~~	~~3'-0"~~	~~7'-0"~~	~~1 3/4"~~	~~HM~~	~~FLD PT MTL~~	~~C(SIM)~~	~~-~~	~~HM~~				~~-~~	~~06~~	~~YES~~	~~EXISTING TO REMAIN, ALARM, PH~~
171B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
172	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	39	YES	LOCK-CLASSROOM
173	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	39	YES	LOCK-CLASSROOM
174	-	-	PR 4'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	TEMP	AL	-	-	-	20 MIN	14	YES	HOLD OPEN, PH, 8"X32" VISION PANEL EA. DR.
175	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	11	YES	PRIVACY LOCK
176	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	32	-	LOCK-JANITOR, CARD READER
177A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	31	YES	LOCK-OFFICE, CARD READER
177B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	31	YES	LOCK-OFFICE, CARD READER
177C	-	-	PR 2'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	-	38	-	LOCK-STORAGE
178A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	31	YES	LOCK-OFFICE, CARD READER
178B	-	-	4'-0"	4'-2"	-	-	STL	O	-	STL	-	-	-	20 MIN	41	YES	FIRE RATED ROLL DOWN COUNTER DOOR W/ FL & LOCK
179	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	36-2	YES	LATCHSET W/ KICKPLATE BOTH SIDES
180	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	36-2	YES	LATCHSET W/ KICKPLATE BOTH SIDES
181	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
182	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	11	YES	PRIVACY LOCK
183	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	37	-	LOCK-JANITOR, CARD READER
184	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
185A	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN	13-DE	YES	PH, 8"X32" VISION PANEL EA. DR.
185B	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN	13-DE	YES	PH, 8"X32" VISION PANEL EA. DR.
~~186A~~	~~-~~	~~-~~	~~3'-0"~~	~~7'-0"~~	~~1 3/4"~~	~~HM~~	~~FLD PT MTL~~	~~C~~	~~-~~	~~HM~~				~~-~~	~~05~~	~~YES~~	~~LOCK CLASSROOM, ALARM, PH~~
186B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
~~187A~~	~~-~~	~~-~~	~~3'-0"~~	~~7'-0"~~	~~1 3/4"~~	~~HM~~	~~FLD PT MTL~~	~~C~~	~~-~~	~~HM~~				~~-~~	~~05~~	~~YES~~	~~LOCK CLASSROOM, ALARM, PH~~
187B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
188A	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
188B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
189A	-	-	3'-0"	7'-0"	1 3/4"	HM	FLD PT MTL	C(SIM)	-	HM	-	-	-	-	06	YES	EXISTING TO REMAIN, ALARM, PH
189B	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	12	YES	LATCHSET, PH
190	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
191	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
192	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
193	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	37	-	LOCK-STORAGE, CARD READER
195	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
196	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
197	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
198	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
199	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
200	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
201	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	37	-	LOCK-STORAGE, CARD READER
203	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
204	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
205	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
206A	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN	13-DE	YES	LOCK, PH, 8"X32" VISION PANEL EA. DR.
206B	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	-	AL	-	-	-	20 MIN	13-DE	YES	LOCK, PH, 8"X32" VISION PANEL EA. DR.
208	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
209	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
* 210	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
211	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	37	YES	LOCK-STORAGE, CARD READER
213	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
214	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
215	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
216	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
217	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
218	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	39	YES	LOCK-CLASSROOM
219	-	-	3'-0"	7'-0"	1 3/4"	HM	FLD PT MTL	C(SIM)	-	AL	-	-	-	-	06	YES	EXISTING TO REMAIN, ALARM, PH
220	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	19	YES	LOCK-STORAGE, CARD READER
221	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	20 MIN	34	-	LOCK-STORAGE, CARD READER
222	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	20 MIN	34	-	LOCK-STORAGE, CARD READER
223	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	20 MIN	34	-	LOCK-STORAGE, CARD READER
224	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	40	YES	LOCK-CLASSROOM
225	-	-	3'-0"	7'-0"	1 3/4"	HM	FLD PT MTL	C(SIM)	-	HM	-	-	-	-	04	YES	EXISTING TO REMAIN, PH
226	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	19-RP	YES	LOCK-STORAGE, PH, CARD READER
227	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	B	-	AL	-	-	-	20 MIN	34	YES	LOCK-STORAGE, CARD READER
229	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	40	YES	LOCK-CLASSROOM

SITE

DOOR NO.	DOOR: SIDELIGHT WIDTH	DOOR: SIDELIGHT HEIGHT	DOOR SIZE: WIDTH	DOOR SIZE: HEIGHT	DOOR SIZE: THICK.	CORE MAT.	FACE MAT.	FRAME: TYPE	FRAME: GLASS	FRAME: MAT.	FRAME: DETAIL HEAD	FRAME: DETAIL JAMB	FRAME: DETAIL SILL	LABEL	HARDWARE: TYPE NO.	HARDWARE: CLSR.	REMARKS
61	-	-	3'-4"	6'-0"		-	-	G1	-	MTL.	-	-	-	-	G101	YES	PH, EXISTING GATE TO REMAIN. REMOVE DEADBOLT AND LATCH.
62	-	-	3'-0"	6'-0"		SC	COMP.	-	-	MTL.	22/SP-1.4 SIM.	-	-	-	G102	YES	PH, ALARM
63	-	-	3'-0"	6'-8"		SC	COMP.	-	-	MTL.	22/SP-1.4	-	-	-	G104	YES	CARD READER, PH
64	-	-	3'-0"	6'-0"		SC	COMP.	-	-	MTL.	22/SP-1.4	-	-	-	G102	YES	PH, ALARM
65	-	-	3'-0"	6'-0"		-	CHAIN LINK	-	-	MTL.	17/SP-1.4 SIM.	-	-	-	G103	YES	PH

DOOR NOTES

1. ALL NEW & EXISTING HARDWARE THROUGHOUT AREA OF REMODEL SHALL BE MINIMUM LEVER STYLE, PUSH-PULL OR PANIC TYPE WITH SINGLE ACTION AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. OPERABLE PARTS OF SUCH HARDWARE SHALL BE MOUNTED 34" MIN. AND 44" MAX. ABOVE THE FINISHED FLOOR. FIELD VERIFY AND PROVIDE IF NOT EXISTING.
2. GLAZING SHALL COMPLY WITH CBC SECT. 2406.4 FOR HAZARDOUS LOCATIONS TYPICAL.
3. ALL GLASS WITHIN 24" OF A DOOR IN CLOSED POSITION AND WHERE BOTTOM EDGE OF GLAZING IS LESS THEN 60" ABOVE WALKING SURFACE, INCLUDING ALL SIDELIGHTS, MUST BE TEMPERED PER CBC SECT. 2406.4.2, ITEM NO. 6.
4. "T" INDICATES TEMPERED GLASS. TEMPERED IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED IN THE GLASS AND READABLE FROM THE INSIDE OF THE BUILDING AFTER INSTALLATION. TEMPERED SPANDREL GLASS MAY BE USE REMOVABLE PAPER LABEL BY MFR., PER CBC SECT. 2406.3.
5. ALL RATED ASSEMBLIES SHALL HAVE SMOKE AND DRAFT CONTROL.
6. FIELD VERIFY ALL EXISTING DOOR OPENINGS.
7. ALL EXTERIOR DOORS TO HAVE TACTILE EXIT SIGNS PER CBC 1003.2.8.6.1, SEE FLOOR PLAN FOR LOCATIONS.
8. ALL STOREFRONT EXIT DOORS SHALL HAVE SIGN POSTED ABOVE STATING "THESE DOORS SHALL REMAIN UNLOCKED DURING BUSINESS HOURS" PER CBC
9. SLIDING DOORS SHALL COMPLY WITH CBC REQUIREMENTS FOR ACCESSIBILITY. DOORS SHALL BE SET SO THAT DOORS ARE 12" MIN IN THE OPEN POSITION TO ALLOW ACCESS AT DOOR FULL.

HARDWARE TYPES

1. SEE SPECIFICATIONS FOR HARDWARE TYPES.

* DOOR 210 REMARKS:

1. PROVIDE DOOR BELL, BUZZER AND VISUAL DOOR SIGNAL DEVICE PER CBCB 11B 809.1.1.
2. PROVIDE VIEWING DEVICE AT DOOR PER CBC 11B 809.1.2 AND 11B 809.5.5.2 WITH 180 DEGREE VIEW. SEE 24 / A-14.3 FOR ADDITIONAL INFORMATION.

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CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

DOOR & WINDOW SCHEDULE

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

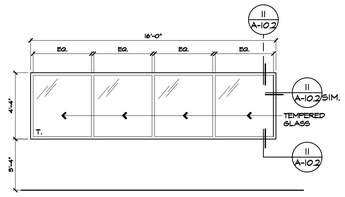
A-10

DOOR SCHEDULE

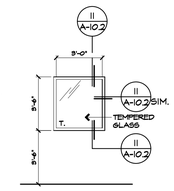
SECOND FLOOR - OFFICE / CONFERENCE

DOOR NO.	DOOR: SIDELIGHT WIDTH	DOOR: SIDELIGHT HEIGHT	DOOR SIZE: WIDTH	DOOR SIZE: HEIGHT	DOOR SIZE: THICK.	CORE MAT.	FACE MAT.	FRAME: TYPE	FRAME: GLASS	FRAME: MAT.	FRAME: DETAIL HEAD	FRAME: DETAIL JAMB	FRAME: DETAIL SILL	LABEL	HARDWARE: TYPE NO.	HARDWARE: CLSR.	REMARKS (CR = CARD READER)
400	(2)4'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	S	-	AL	-	-	-	-	25	-	CONFERENCE LATCHSET, CARD READER
402	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
403	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
406	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
407	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
409	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	37	-	LOCK-STORAGE, CARD READER
410	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
411	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	22	YES	LOCK-JANITOR, CARD READER
412	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	10	YES	PRIVACY LOCK
413	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	25	-	CONFERENCE LATCHSET, CARD READER
414	(3)4'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	R	-	AL	-	-	-	-	25	-	CONFERENCE LATCHSET, CARD READER
416	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	20 MIN	29	YES	LOCK-STORAGE, KICKPLATE (BOTH SIDES), CR
418	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	25	-	CONFERENCE LATCHSET, CARD READER
419	-	-	PR 3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	H	TEMP	AL	-	-	-	-	18	YES	CONFERENCE LATCHSET, 8"X32" VISION PANEL EA. DOOR, CR
421	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	31	YES	CARD READER
422	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
423	2'-0"	7'-0"	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	1	-	AL	-	-	-	-	09	-	LOCK-OFFICE, CARD READER
425	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	36	YES	PUSH PULL W/ KICKPLATES BOTH SIDES
426	-	-	2'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G		AL	-	-	-	-	36	YES	PUSH PULL W/ KICKPLATES BOTH SIDES
427	-	-	3'-0"	7'-0"	1 3/4"	SC	PAINT GD MD	G	-	AL	-	-	-	-	32	-	LOCK-STORAGE, CARD READER

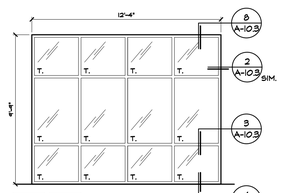
WINDOW TYPES



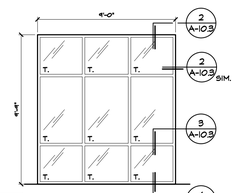
117 — INTERIOR STOREFRONT WINDOW ELEVATION @ OPEN OFFICE 117 — A



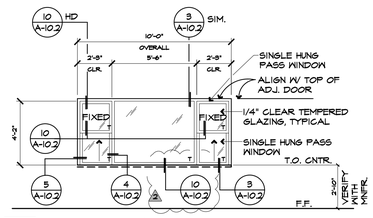
120 — INTERIOR STOREFRONT WINDOW ELEVATION @ OFFICE 120 — B



122 123 — NEW EXTERIOR STOREFRONT SYSTEM WINDOW @ LOBBY-2 122 AND LOUNGE 123 — C



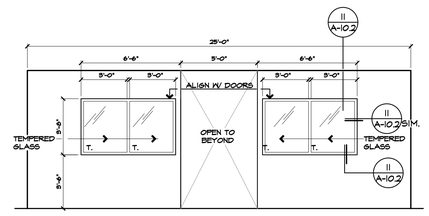
157 — NEW EXTERIOR STOREFRONT SYSTEM WINDOW @ DINING AREA 157 — D



158 — INTERIOR WINDOW @ KITCHEN- ROOM 158 — E

NOTE:
WINDOW SPECIFICATIONS
SINGLE HUNG WINDOW.
ARCADIA 52 SERIES 1/4" GLAZING, ANODIZED CLEAR FINISH.

SINGLE LITE:
ARCADIA AF 300 SERIES STOREFRONT 2"x3" OFFSET FOR 1/4" GLASS, ANODIZED CLEAR FINISH.



404 — INTERIOR STOREFRONT WINDOW ELEVATION @ LOUNGE 404 — F

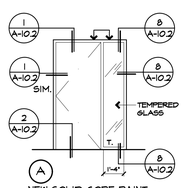
DOOR NOTES

1. ALL NEW & EXISTING HARDWARE THROUGHOUT AREA OF REMODEL SHALL BE MINIMUM LEVER STYLE, PUSH-PULL OR PANIC TYPE WITH SINGLE ACTION AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. OPERABLE PARTS OF SUCH HARDWARE SHALL BE MOUNTED 34" MIN. AND 44" MAX. ABOVE THE FINISHED FLOOR. FIELD VERIFY AND PROVIDE IF NOT EXISTING.
2. GLAZING SHALL COMPLY WITH CBC SECT. 2406.4 FOR HAZARDOUS LOCATIONS TYPICAL.
3. ALL GLASS WITHIN 24" OF A DOOR IN CLOSED POSITION AND WHERE BOTTOM EDGE OF GLAZING IS LESS THEN 60" ABOVE WALKING SURFACE, INCLUDING ALL SIDELIGHTS, MUST BE TEMPERED PER CBC SECT. 2406.4.2, ITEM NO. 6.
4. "T" INDICATES TEMPERED GLASS. TEMPERED IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED IN THE GLASS AND READABLE FROM THE INSIDE OF THE BUILDING AFTER INSTALLATION. TEMPERED SPANDREL GLASS MAY BE USE REMOVABLE PAPER LABEL BY MFR., PER CBC SECT. 2406.3.
5. ALL RATED ASSEMBLIES SHALL HAVE SMOKE AND DRAFT CONTROL.
6. FIELD VERIFY ALL EXISTING DOOR OPENINGS.
7. ALL EXTERIOR DOORS TO HAVE TACTILE EXIT SIGNS PER CBC 1003.2.8.6.1, SEE FLOOR PLAN FOR LOCATIONS.
8. ALL STOREFRONT EXIT DOORS SHALL HAVE SIGN POSTED ABOVE STATING "THESE DOORS SHALL REMAIN UNLOCKED DURING BUSINESS HOURS" PER CBC
9. SLIDING DOORS SHALL COMPLY WITH CBC REQUIREMENTS FOR ACCESSIBILITY. DOORS SHALL BE SET SO THAT DOORS ARE 12" MIN IN THE OPEN POSITION TO ALLOW ACCESS AT DOOR PULL.

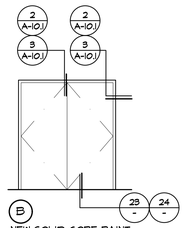
HARDWARE TYPES

1. SEE SPECIFICATIONS FOR HARDWARE TYPES.

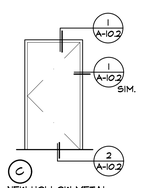
DOOR TYPES



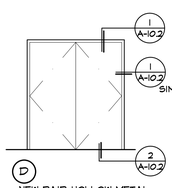
A — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH INTEGRATED SIDELIGHT.



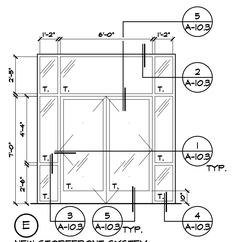
B — NEW SOLID CORE PAINT GRADE PAIR INTERIOR DOORS.



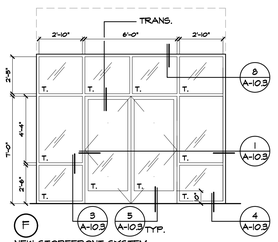
C — NEW HOLLOW METAL PAINT GRADE EXTERIOR DOOR.



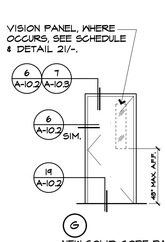
D — NEW PAIR HOLLOW METAL PAINT GRADE EXTERIOR DOORS.



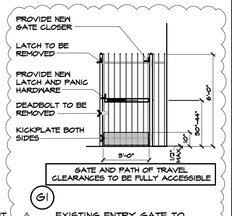
E — NEW STOREFRONT SYSTEM



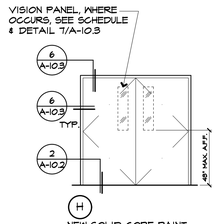
F — NEW STOREFRONT SYSTEM



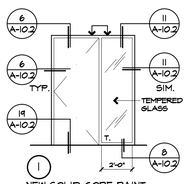
G — NEW SOLID CORE PAINT GRADE INTERIOR DOOR W/ VISION PANEL



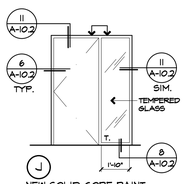
G1 — EXISTING ENTRY GATE TO REMAIN. REMOVE DEADBOLT AND LATCH.



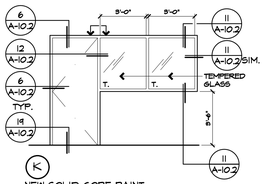
H — NEW SOLID CORE PAINT GRADE INTERIOR PAIR OF DOORS W/ VISION PANEL



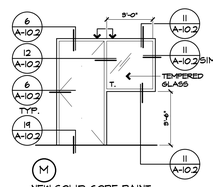
I — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH INTEGRATED SIDELIGHT.



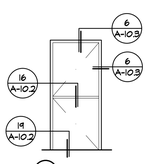
J — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH INTEGRATED SIDELIGHTS.



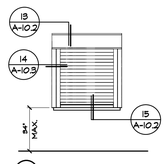
K — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH INTEGRATED SIDELIGHTS.



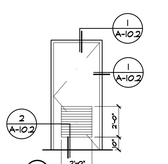
M — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH INTEGRATED SIDELIGHTS.



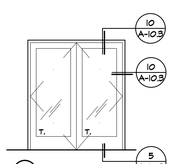
N — NEW SOLID CORE PAINT GRADE DUTCH DOOR



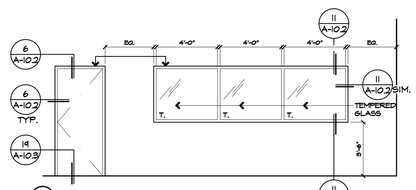
O — NEW 20 MIN. RATED ROLL DOWN COUNTER DOOR



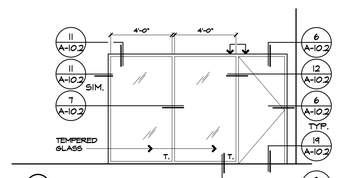
P — NEW HOLLOW METAL PAINT GRADE EXTERIOR DOOR WITH METAL LOUVER PANEL



Q — NEW EXTERIOR STOREFRONT SYSTEM



R — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH GLAZING @ CONFERENCE 414



S — NEW SOLID CORE PAINT GRADE INTERIOR DOOR WITH INTEGRATED SIDELIGHTS.

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CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

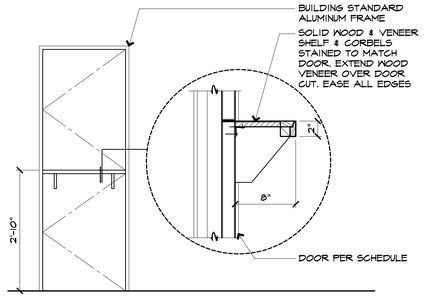
DOOR & WINDOW SCHEDULE

Revisions	By	Date
1 PC CORR 1/BID ISSUE	DAE	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

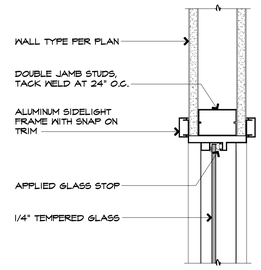
A-10.1



SECTION AT DUTCH DOOR 16

SCALE: N.T.S.

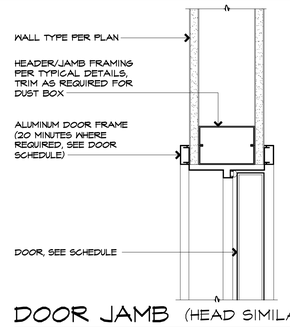
DUTCH-DR.dwg DIV-08 REV. 07-02-10



SIDELIGHT JAMB (HEAD SIM.) 11 ⚠

SCALE: 3"=1'-0"

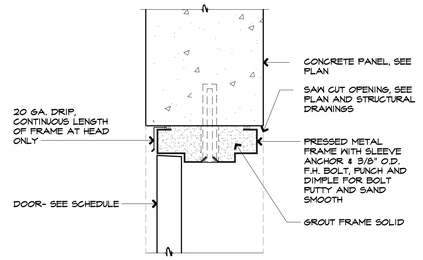
ALSLJB.dwg DIV-08 REV. 06-30-10



DOOR JAMB (HEAD SIMILAR) 6 ⚠

SCALE: 3" = 1'-0"

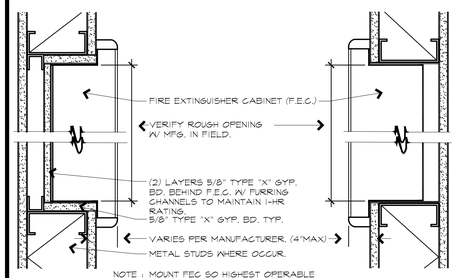
ALDRJB2.dwg DIV-08



METAL DR. FRAME HEAD (JAMB SIM.) 1 ⚠

SCALE: 3"=1'-0"

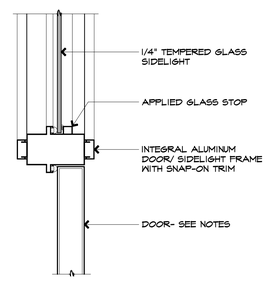
MTLDRHD.dwg DIV-08 REV. 07-06-10



FIRE EXTINGUISHER CABINET 22 ⚠

SCALE: 3"=1'-0"

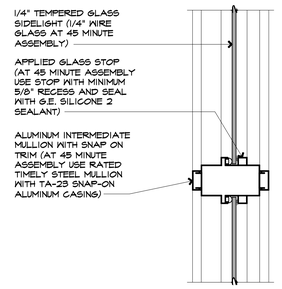
FEC-01



DOOR/ SIDELIGHT JAMB 12 ⚠

SCALE: 3"=1'-0"

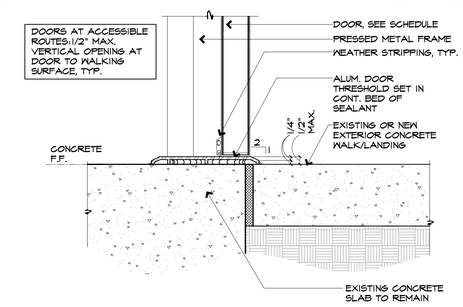
ALDRSL.dwg DIV-08 REV. 06-29-10



SIDELIGHT MULLION 7 ⚠

SCALE: 3" = 1'-0"

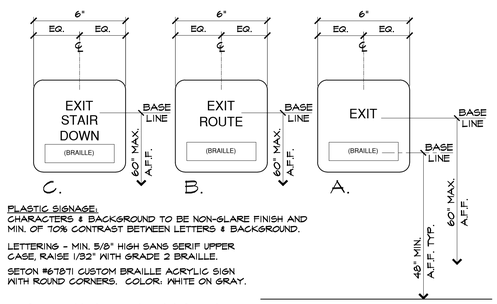
ALSLMUL-2.dwg DIV-08 REV. 06-30-10



THRESHOLD AT DOOR 2 ⚠

SCALE: 3"=1'-0"

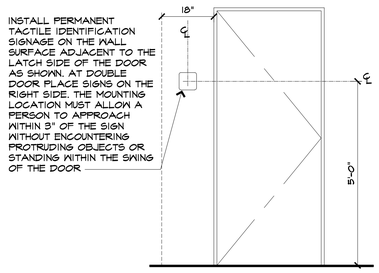
threshold2.dwg

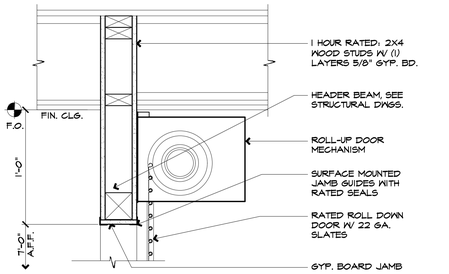


TACTILE SIGNAGE 18 ⚠

SCALE: 3"=1'-0"

EXIT SIGN 3.dwg DIV-10

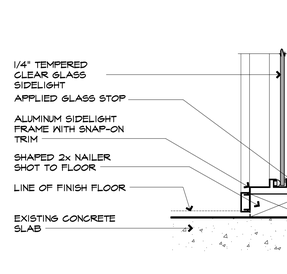




ROLL-UP DOOR HEAD CONDITION (20 MIN.) 13 ⚠

SCALE: 1 1/2"=1'-0"

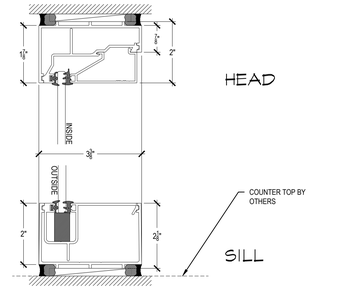
20_RUDR_HEAD.dwg



SIDELIGHT SILL 8 ⚠

SCALE: 3" = 1'-0"

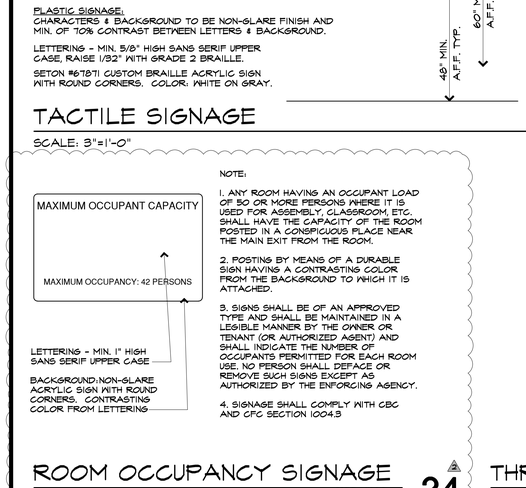
ALSLSILL.dwg DIV-08 REV. 06-30-10



FIXED GLAZING 3 ⚠

SCALE: 6"=1'-0"

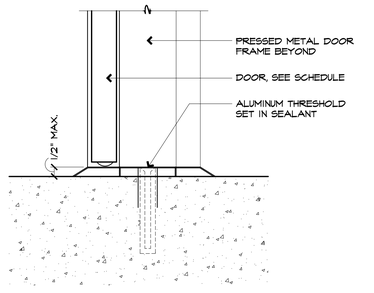
Window-Pass Thru



ROOM OCCUPANCY SIGNAGE 24 ⚠

SCALE: 1 1/2"=1'-0"

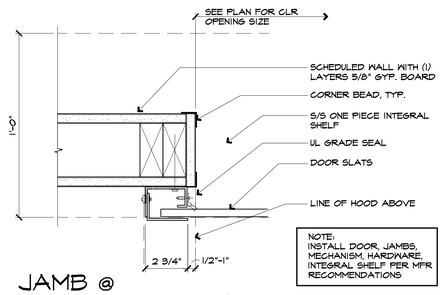
OCCUPANCY SIGN.dwg



THRESHOLD DETAIL 19

SCALE: 3"=1'-0"

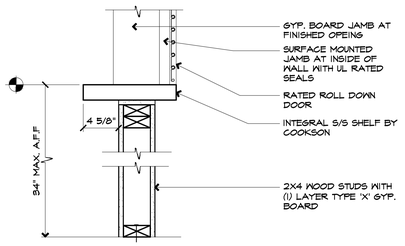
HM-DR-THRESH.dwg DIV-08



JAMB @ ROLL-UP DOOR (20 MIN.) 14 ⚠

SCALE: 3"=1'-0"

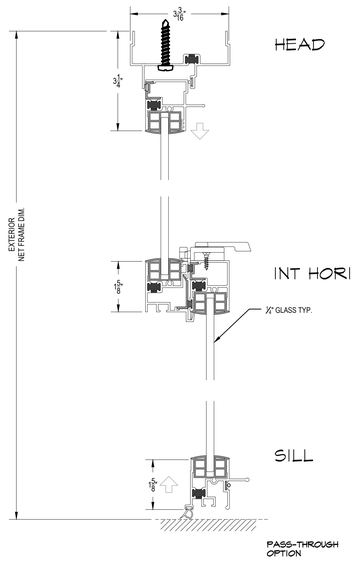
20_RUDR_JB



ROLL-UP DOOR SHELF/SILL 15 ⚠

SCALE: 1 1/2"=1'-0"

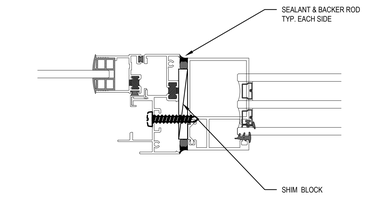
20_RUDR_SILL



PASS THRU WINDOW 10 ⚠

SCALE: 6"=1'-0"

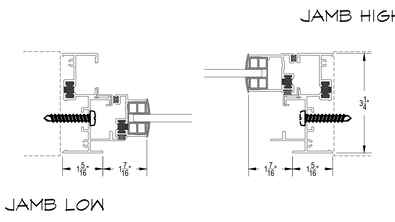
Window-Pass Thru



PASS THRU TO FIXED JAMB 4 ⚠

SCALE: 6"=1'-0"

Window-Pass Thru



PASS THRU JAMB WALL 5 ⚠

SCALE: 6"=1'-0"

Window-Pass Thru

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LICENSED ARCHITECT LORENT J. DELLA RAMIA #C 21632 Exp. 01/31/27 STATE OF CALIFORNIA

CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

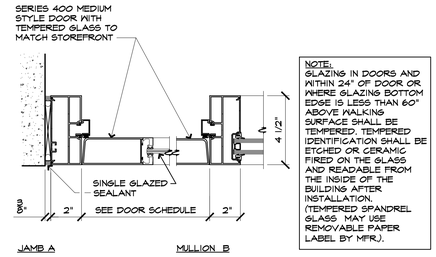
DOOR & WINDOW DETAILS

Revisions	By	Date
⚠1 PC CORR 1/BID ISSUE 1	MFM	4/29/26
⚠2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/15/26
Project No.	25011
Scale	AS NOTED

Sheet

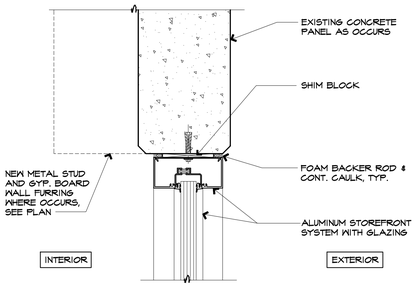
A-10.2

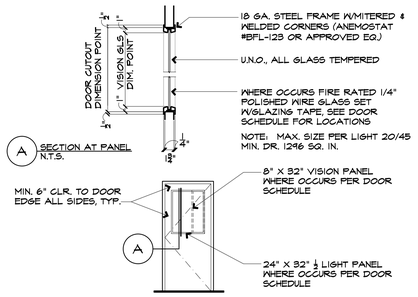


ENTRY DOOR JAMB & MULLION 1

STRFRNT-6.dwg
REV: 05-17-10

SCALE: 3"=1'-0"

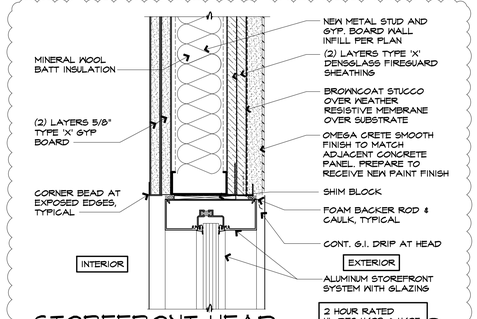




TYP. VISION/LIGHT PANEL 7

VisionPanel.dwg

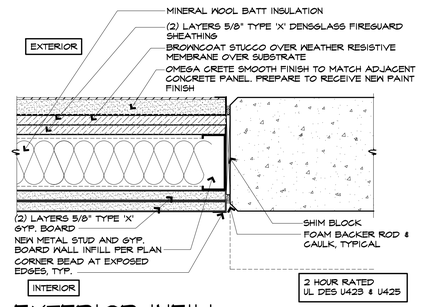
SCALE: 1/4"=1'-0"



STOREFRONT HEAD 8

Infill Wall Storefront Head.dwg

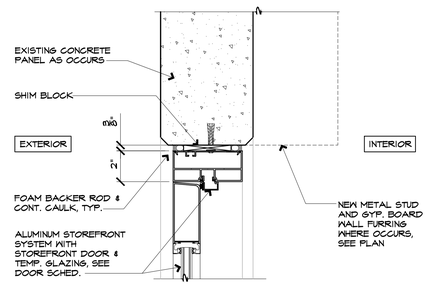
SCALE: 3"=1'-0"



EXTERIOR INFILL 9

Infill Wall Storefront Head.dwg

SCALE: 3"=1'-0"



STOREFRONT DR. JAMB (HEAD SIM.) 10

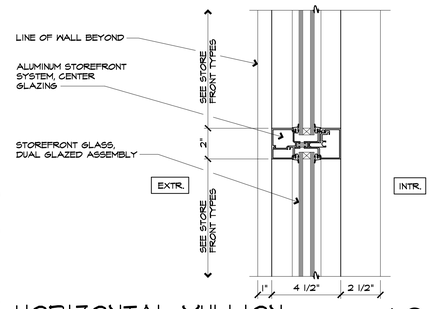
ALHDDORC-HD.dwg

SCALE: 3"=1'-0"

STOREFRONT JAMB (HEAD SIM.) 2

Storefront Jamb-1.dwg

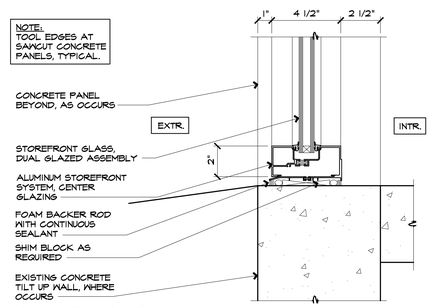
SCALE: 3"=1'-0"



HORIZONTAL MULLION 3

Mull Sections-Detail-11.dwg

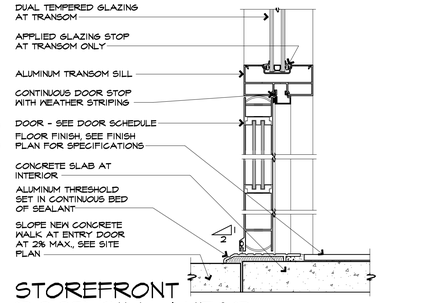
SCALE: 3"=1'-0"



GLAZING SILL 4

Mull Sections-Detail-12.dwg

SCALE: 3"=1'-0"



STOREFRONT DOOR SILL / HEAD 5

STRFRNT-T.DWG

SCALE: 3"=1'-0"

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Exp. 01/31/27
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FOR

FONTANA
CALIFORNIA

TITLE

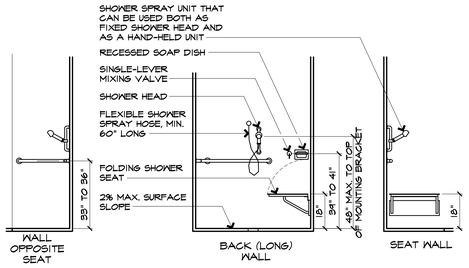
DOOR & WINDOW DETAILS

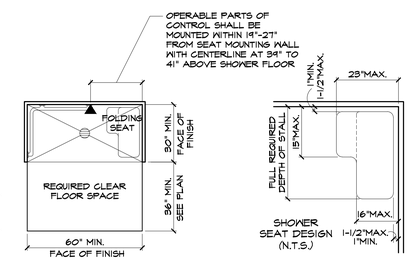
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2 FC CORR 2 / ADD 2	MFM	6/12/26

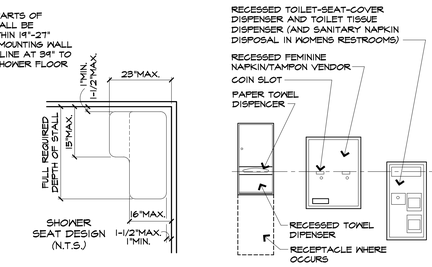
Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

Sheet

A-10.3





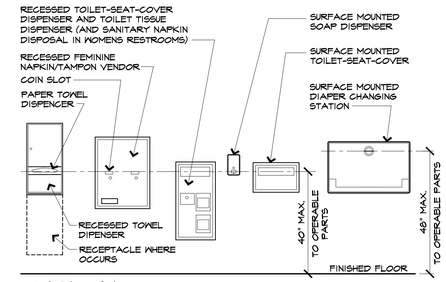


18 ACCESSIBLE SHOWER STALL 8

SCALE: 3/8" = 1'-0"

ACC-17.dwg

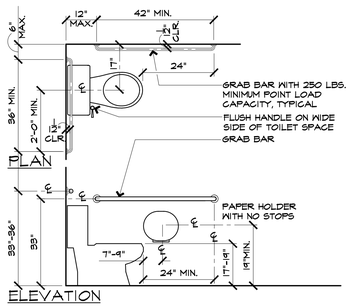
DIV-10 REV.: 12-3-10



TYPICAL TOILET ACCESSORIES 3

SCALE: 1/2"=1'-0"

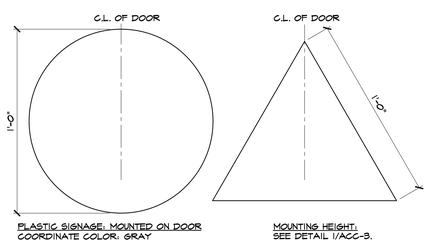
ACC-1.dwg DIV-10



19 TYP. TOILET ACCESSORIES

SCALE: 1/2"=1'-0"

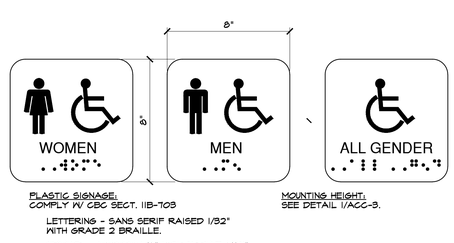
ACC-10.DWG DIV-10



14 RESTROOM SIGNAGE

SCALE: 3"=1'-0"

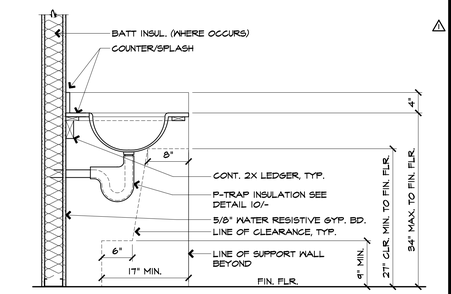
RRSIGN-2.DWG DIV-10



9 RESTROOM WALL SIGN

SCALE: 3"=1'-0"

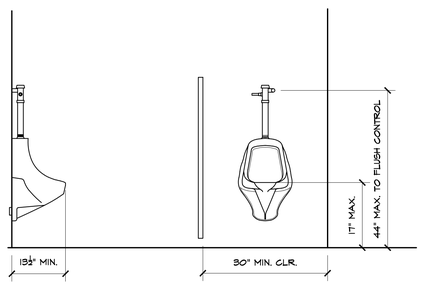
RRSIGN-1.dwg DIV-10



4 LAVATORY SECTION

SCALE: 1"=1'-0"

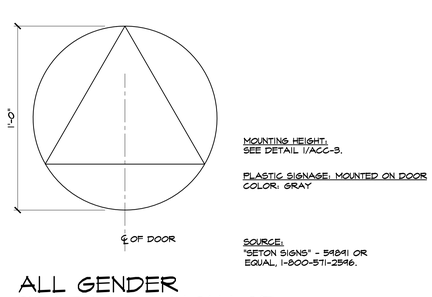
LAV-1.dwg DIV-10



20 ACCESSIBLE URINAL

SCALE: 3/4"=1'-0"

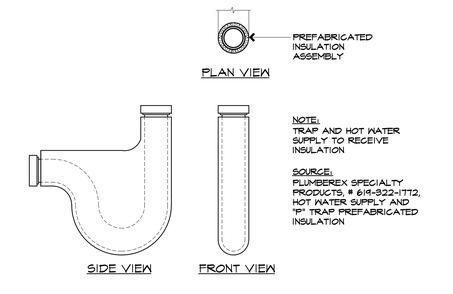
urinal-2.dwg DIV-10 Per 2013 CBC



ALL GENDER RESTROOM SIGNAGE 15

SCALE: 3"=1'-0"

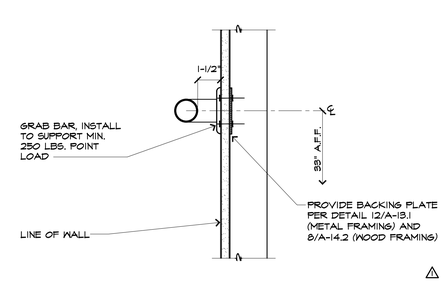
RRSIGN-3.DWG DIV-10



10 TRAP INSULATION

SCALE: 3"=1'-0"

PIPE-INSUL.dwg DIV-10 REV.: 12-21-10



5 GRAB BAR MOUNTING

SCALE: 3"=1'-0"

ACC-7.dwg

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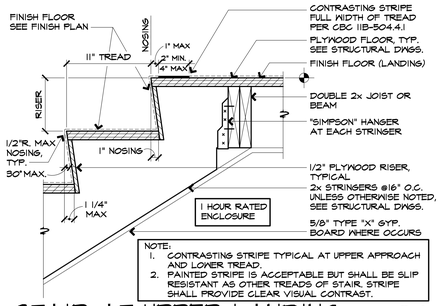
RESTROOM DETAILS

Revisions	By	Date
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2 FC CORR 2 / ADD 2	DAE	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

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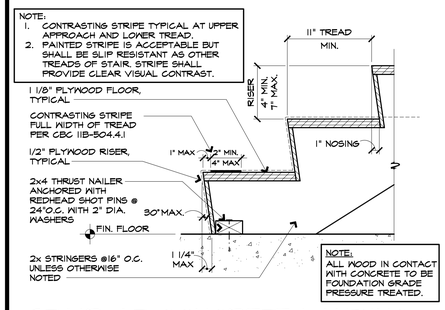
A-11.1



STAIR AT UPPER LANDING 21

SCALE: 1 1/2"=1'-0"

STAIR-3_R.dwg



STAIR AT CONCRETE LANDING 22

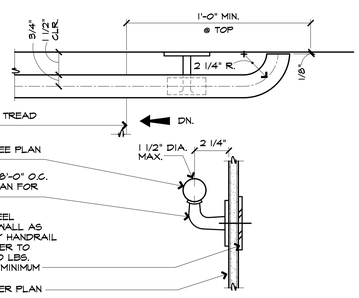
SCALE: 1 1/2"=1'-0"

STAIR-1_R.dwg

HANDRAIL DETAIL 23

SCALE: 3"=1'-0"

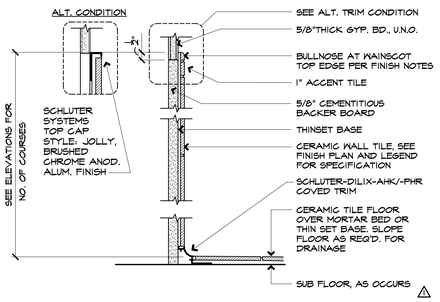
HANDRAIL3_R.dwg
DIV-05
REV. 01-18-10



HANDRAIL DETAIL 24

SCALE: 3"=1'-0"

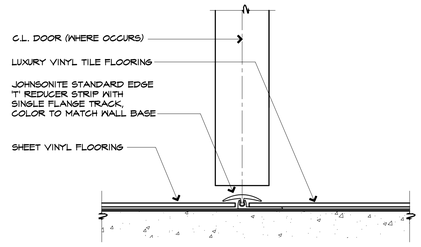
HANDRAIL3_R.dwg
DIV-05
REV. 01-18-10



CERAMIC BASE @ WAINSCOT 25

SCALE: 3"=1'-0"

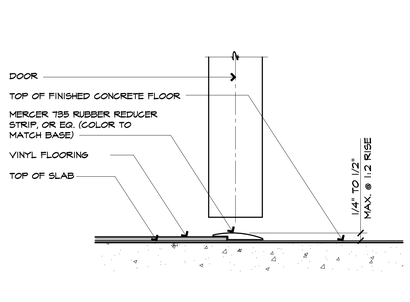
BASE-CT6.dwg
DIV-04



REDUCER STRIP DETAIL 16

SCALE: HALF-SIZE

REDUCER4.dwg
DIV-04



REDUCER STRIP DETAIL 17

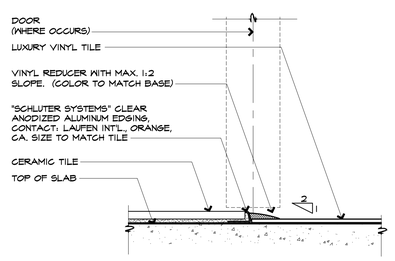
SCALE: 6"=1'-0"

REDUCER.dwg
DIV-04

TILE/CONCRETE TRANSITION 18

SCALE: 6"=1'-0"

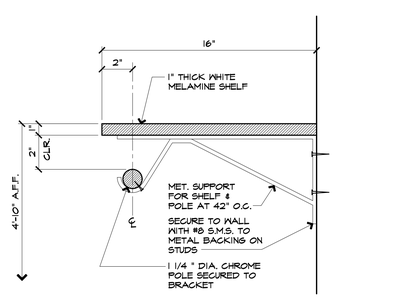
REDUCE6.dwg
DIV-04
REV. 4/2014



TILE/VINYL TRANSITION 19

SCALE: 6"=1'-0"

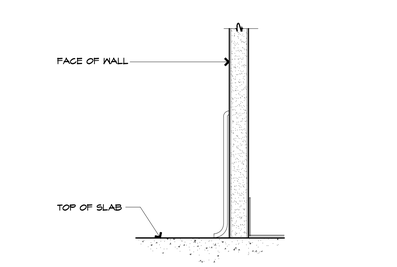
REDUCE5.dwg
DIV-04



SHELF AND POLE 20

SCALE: 3"=1'-0"

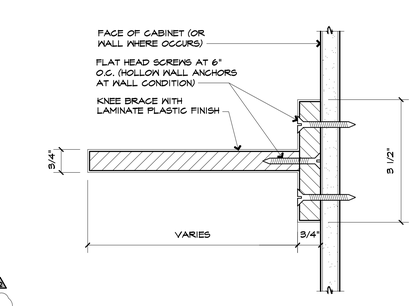
SHELF-POL-S.dwg



RESILIENT BASE 11

SCALE: HALF SIZE

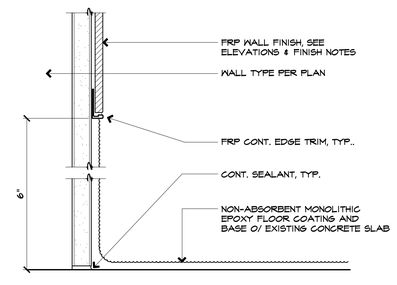
BASE-S.dwg
DIV-04



CABINET SECTION 12

SCALE: 1"=1'-0"

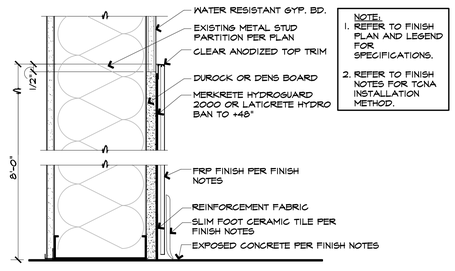
CABSECT1.dwg
DIV-06



EPOXY BASE 13

SCALE: 6"=1'-0"

Epoxy Base-1.dwg



FRP WAINSCOT (@ JANITORS SINK.) 14

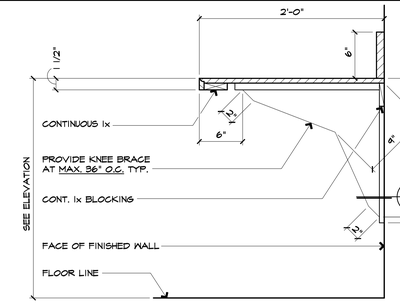
SCALE: 3"=1'-0"

TOP OF WAINSCOT-2.dwg

RESILIENT BASE 15

SCALE: HALF SIZE

BASE-S.dwg
DIV-04
REV. 02-01-10



WORK TOP SECTION 6

SCALE: 1 1/2"=1'-0"

CABSECT45.dwg

KNEE BRACE SECTION 7

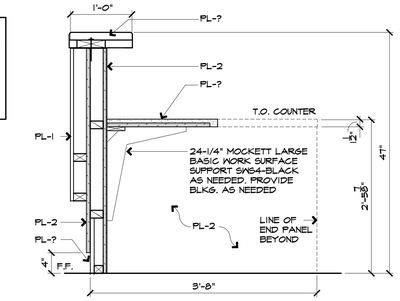
SCALE: 6"=1'-0"

KNEEBRACE2.dwg
DIV-06
REV. 06-10-10

WALL CAP 8

SCALE: 3"=1'-0"

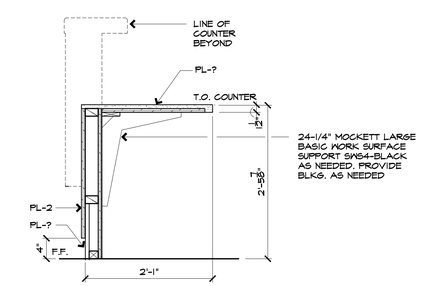
WALLCAP5.dwg



RECEPTION DESK SECTION 9

SCALE: 1"=1'-0"

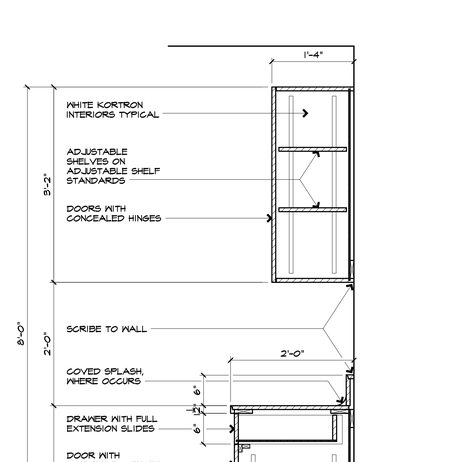
RECEP_SECTION_01A



RECEPTION DESK SECTION 10

SCALE: 1"=1'-0"

RECEP_SECTION_01B



CABINET SECTION 4

SCALE: 1"=1'-0"

CABSECT2.DWG
DIV-06
REV. 01-18-11

TYP. ADJUSTABLE SHELVING 5

SCALE: 3/8"=1'-0"

MTRSHPC ESHV3SD3P-18.dwg

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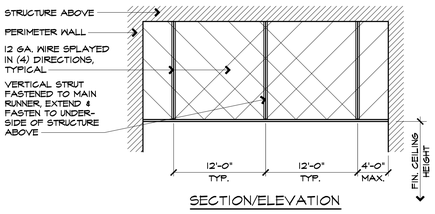
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2 FC CORR 2 / ADD 2	DAE	6/12/26

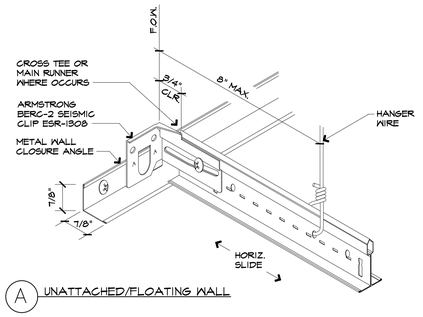
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Date	2/19/26
Project No.	25011
Scale	AS NOTED

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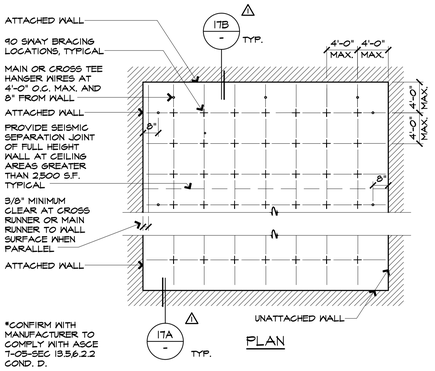
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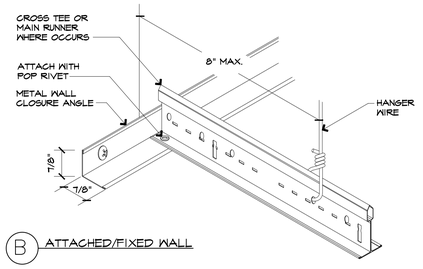
SECTION/ELEVATION



A UNATTACHED/FLOATING WALL



PLAN

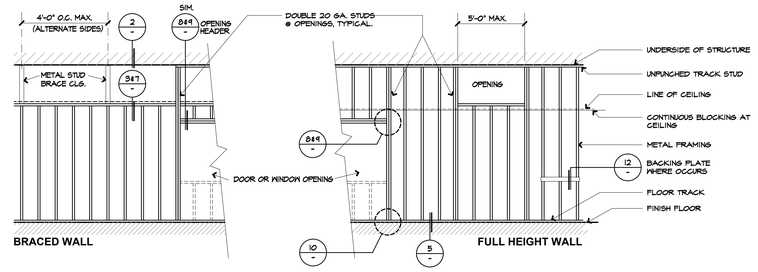


B ATTACHED/FIXED WALL

WALL ANGLE DETAIL 17

SCALE: 6"=1'-0"

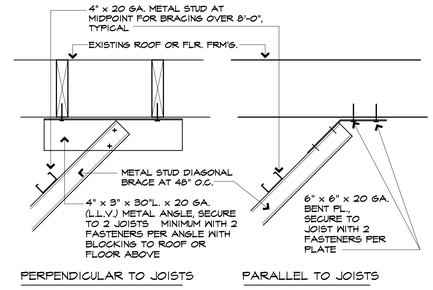
WALLANGT.dwg DIV-09



TYPICAL WALL FRAMING 6

SCALE: NONE

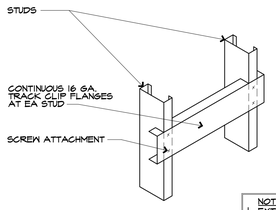
TYPICAL WALL FRAMING.dwg



DIAG. BRACE AT STRUCT. ABV. 1

SCALE: 1 1/2"=1'-0"

brace-structabv-5.dwg DIV-04

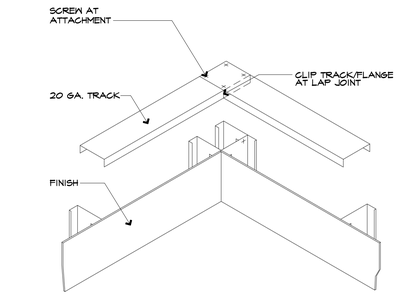


NOTES:
1. EXTEND BACKING PLATE TO THE NEXT STUD BEYOND THE END OF THE SUPPORTED ITEM.
2. USE THIS BACKING FOR GRAB BARS, HANDRAILS, WALL HUNG CABINETS, ETC.

TYP WALL BACKING 12

SCALE: 1 1/2"=1'-0"

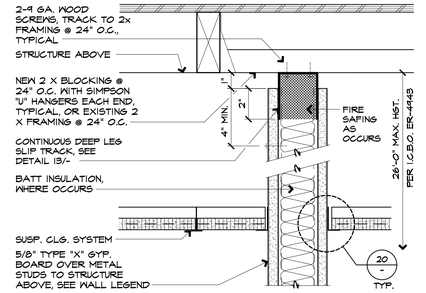
WALLBACK.dwg



TYP. WALL TRACK CONN. 7

SCALE: 1 1/2"=1'-0"

typ-mtconn.dwg



FULL HEIGHT PARTITION 2

SCALE: 3"=1'-0"

PTN-FHB.dwg DIV-04

ACOUSTICAL CEILING NOTES

1. ALL SUSPENDED CEILING SHALL COMPLY WITH CBC CHAPTER 8, SECTION 808 & ALL APPLICABLE REQUIREMENTS OF THE CBC, GENERALLY ACCEPTED ENGINEERING PRACTICE, ASCE 7-16 REQUIREMENTS AND ASTM C 635 & ASTM C636 STANDARDS.
2. DESIGN CRITERIA FOR SEISMIC DESIGN PER LOCAL JURISDICTION AND BUILDING CODE REQUIREMENTS. FOR SEISMIC ZONE APPLICATIONS.
   a. PROVIDE HEAVY DUTY T-BAR GRID SYSTEM AT NEW CEILING AREAS
   b. PROVIDE PERIMETER WALL ANGLE OF 2" MINIMUM, TYPICAL.
   c. THE CEILING GRID SHALL BE ATTACHED TO THE WALL ANGLE, ONE END OF EACH ORTHOGONAL HORIZONTAL DIRECTION. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75 INCH CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON THE WALL CLOSURE ANGLE.
3. FOR CEILING AREAS EXCEEDING 1,000 S.F., HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED. THE TRIBUTARY AREAS OR THE HORIZONTAL RESTRAINTS SHALL BE APPROXIMATELY EQUAL. RIGID BRACING MAY BE USED AS RESTRAINTS AS LONG AS THEY LIMIT RELATIVE LATERAL DEFLECTIONS AT POINT OF ATTACHMENT TO LESS THAN .025 INCH, AS REQUIRED IN ASCE 7-05, SEC 13.5.6.
4. FOR CEILING AREAS EXCEEDING 2,500 S.F., PROVIDE A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION TO REDUCE CEILING AREAS NOT EXCEEDING 2,500 S.F. PROVIDE ALTERNATE STRUCTURAL ANALYSIS IN LIEU OF JOINT OR SEPARATION.

SUSPENDED CEILING 23

SCALE: 1-1/2"=1'-0"

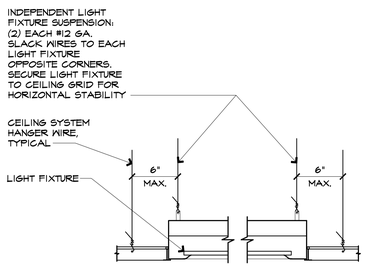
SUSPCLG2016.DWG DIV-09 REV. 10-20-17

NOTES:

1. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
2. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINAL OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4'-0" BY 4'-0" LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.

   ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GA. WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE, REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.

   THE 4 TAUT GA. WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
3. SUPPORT SURFACE MOUNT LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA. WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER.
4. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

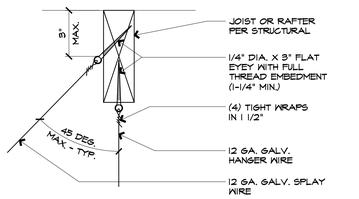


LIGHT FIXTURE SUPPORT 25

SCALE: 1-1/2" = 1'-0"

SUSP-LIGHT SUPP.dwg DIV-09

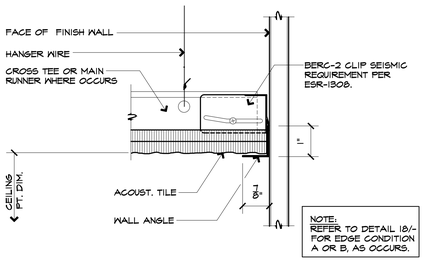
18



WIRE & STRUT ATTACHMENT 19

SCALE: 3"=1'-0"

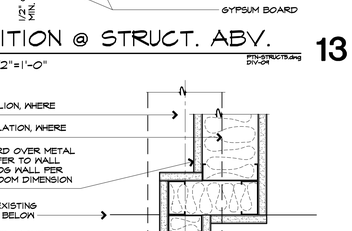
SUSP-LIGHT SUPP2.dwg DIV-09

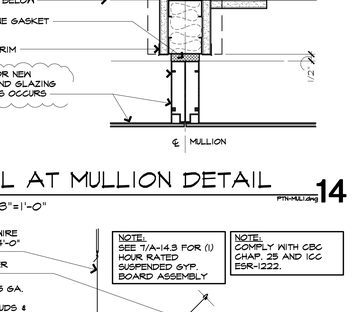


WALL ANGLE DETAIL 20

SCALE: HALF SIZE

WALLAN5.dwg

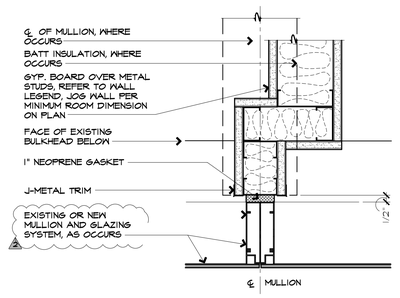




PARTITION @ STRUCT. ABV. 13

SCALE: 1 1/2"=1'-0"

PTN-STRUCT5.dwg DIV-04



WALL AT MULLION DETAIL 14

SCALE: 3"=1'-0"

PTN-MUL1.dwg

SUSP. GYP. BOARD CEILING 15

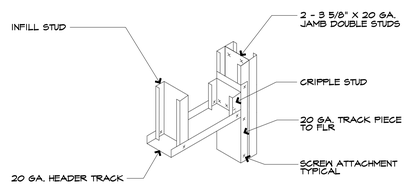
SCALE: 1-1/2" = 1'-0"

SUSPCL04.dwg DIV-04

TYPICAL HEADER (OPNGS > 4'-0") 8

SCALE: 1 1/2"=1'-0"

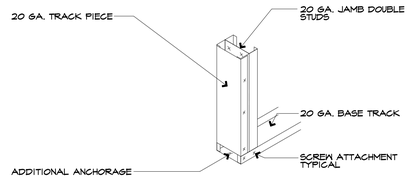
TYPHEADER-JAMB.dwg



TYPICAL HEADER (OPNGS < 4'-0") 9

SCALE: 1 1/2"=1'-0"

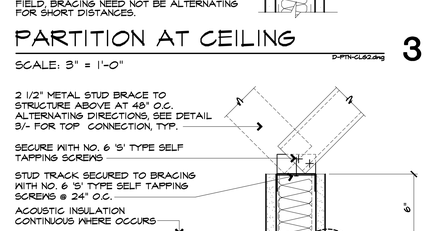
HEADER.dwg



JAMB AT FLOOR 10

SCALE: 1 1/2"=1'-0"

JAMBATFLR.dwg



PARTITION AT CEILING 3

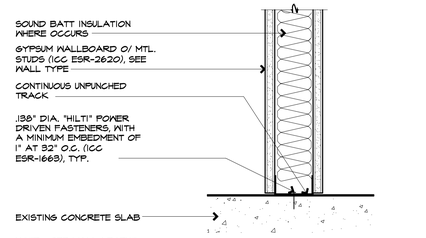
SCALE: 3" = 1'-0"

D-PTN-CL62.dwg

PARTITION AT CEILING 4

SCALE: 3"=1'-0"

PTN-CL64.dwg DIV-04



PARTITION AT SLAB (DOOR INFILL SIMILAR) 5

SCALE: 3"=1'-0"

PTN-SLAB.dwg

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CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

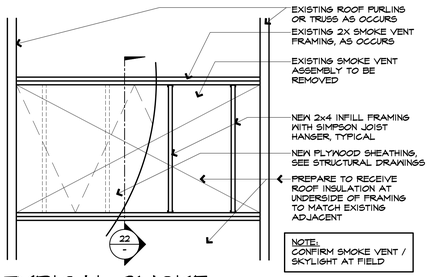
INTERIOR FRAMING DETAILS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/19/26
Project No.	25011
Scale	AS NOTED

Sheet

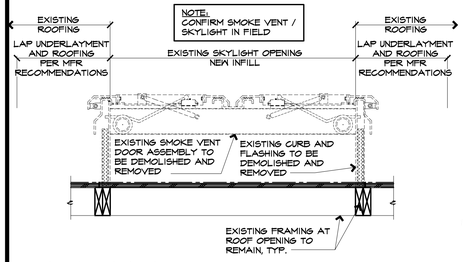
A-13.1



TYPICAL SMOKE VENT / SKYLIGHT INFILL 21

TYPICAL SMOKE VENT INFILL.dwg

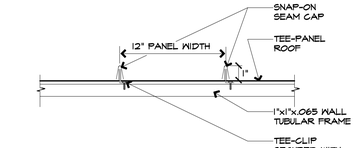
SCALE: 1/2"=1'-0"



DEMO FIRE /SMOKE VENT/SKYLIGHT 22

EXIST FIRE-SMOKE VENT

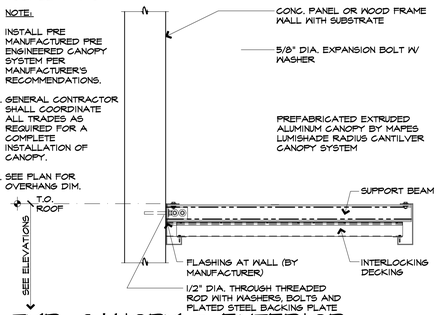
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PANEL DETAIL 23

PANEL DETAIL

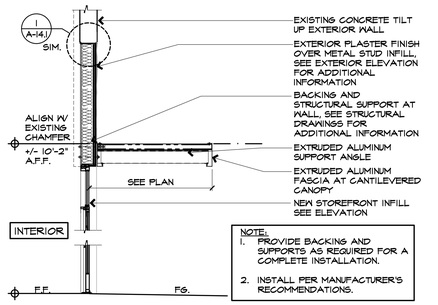
SCALE: 1"=1'-0"



TYP. CANOPY @ EXTERIOR 24

canopy.dwg

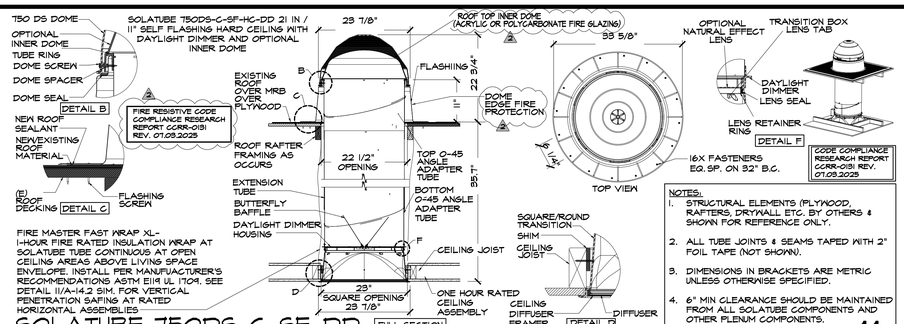
SCALE: 1"=1'-0"



EXTERIOR CANOPY/INFILL 25

DPAPAF

SCALE: 3/8"=1'-0"

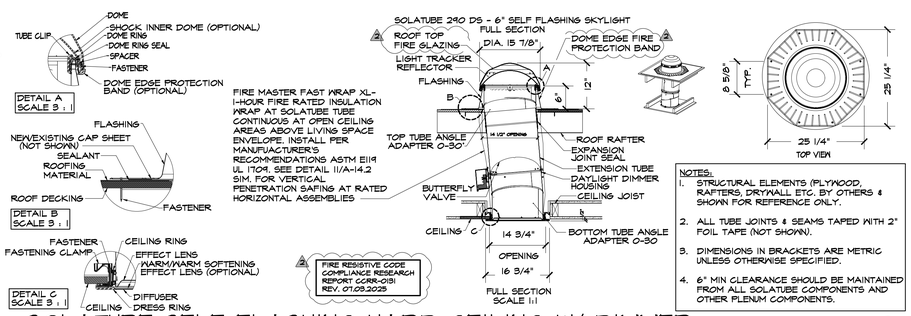


NOTES:
1. STRUCTURAL ELEMENTS (PLYWOOD, RAFTERS, DRYWALL ETC. BY OTHERS & SHOWN FOR REFERENCE ONLY.
2. ALL TUBE JOINTS & SEAMS TAPED WITH 2" FOIL TAPE (NOT SHOWN).
3. DIMENSIONS IN BRACKETS ARE METRIC UNLESS OTHERWISE SPECIFIED.
4. 6" MIN CLEARANCE SHOULD BE MAINTAINED FROM ALL SOLATUBE COMPONENTS AND OTHER PLENUM COMPONENTS.

SOLATUBE 750DS-C-SF-DD 11

750 DS-C SELF FLASHING HARD CLG

SCALE: 3/4"=1'-0"

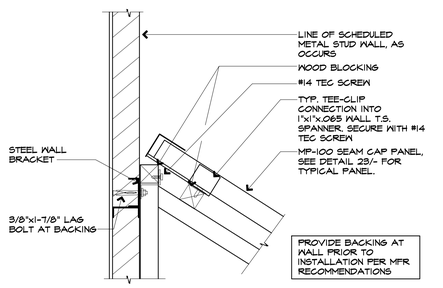


NOTES:
1. STRUCTURAL ELEMENTS (PLYWOOD, RAFTERS, DRYWALL ETC. BY OTHERS & SHOWN FOR REFERENCE ONLY.
2. ALL TUBE JOINTS & SEAMS TAPED WITH 2" FOIL TAPE (NOT SHOWN).
3. DIMENSIONS IN BRACKETS ARE METRIC UNLESS OTHERWISE SPECIFIED.
4. 6" MIN CLEARANCE SHOULD BE MAINTAINED FROM ALL SOLATUBE COMPONENTS AND OTHER PLENUM COMPONENTS.

SOLATUBE SELF FLASHING HARD CEILING W/ DIMMER 12

SOLATUBE_SELF FLASHING HARD CLG

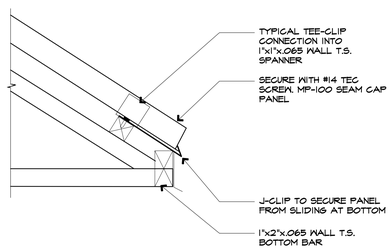
SCALE: 3/4"=1'-0"



CANOPY TOP CONNECTION 18

CANOPY TOP

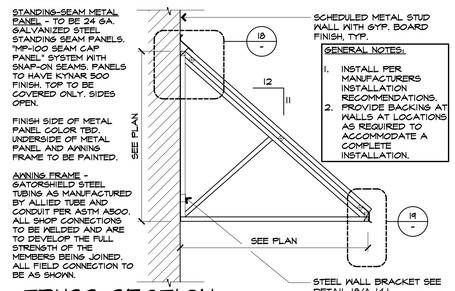
SCALE: 1"=1'-0"



CANOPY BOTTOM CONNECTION 19

CANOPY BOTTOM

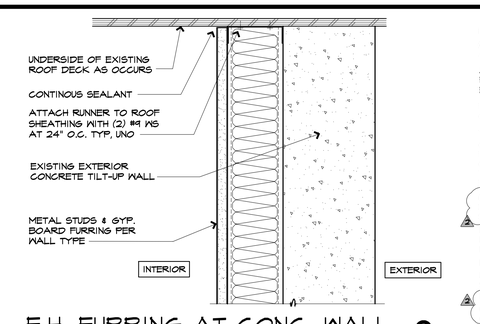
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TRUSS SECTION 20

TRUSS SECTION

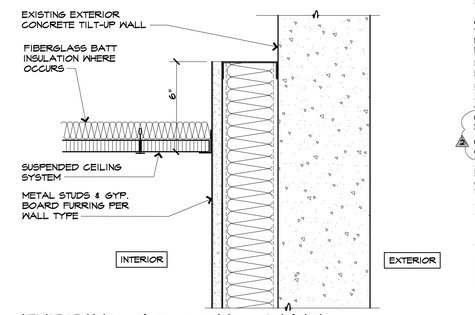
SCALE: 1"=1'-0"



F.H. FURRING AT CONC. WALL 6

FURRING6.dwg

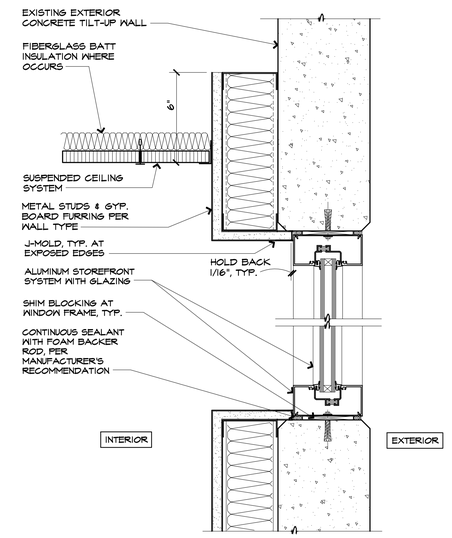
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FURRING AT CONC. WALL 7

FURRING6.dwg

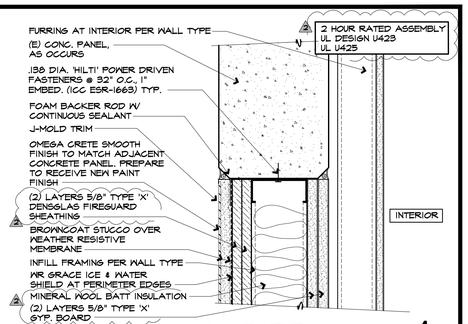
SCALE: 3"=1'-0"



FURRING @ OPENING 9

FURRING2.dwg

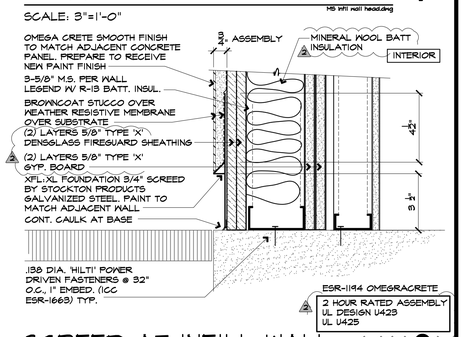
SCALE: 3"=1'-0"



INFILL WALL HEAD DTL 1

MB infill wall head.dwg

SCALE: 3"=1'-0"



SCREED AT INFILL WALL 2

MB infill wall screed.dwg

SCALE: 3"=1'-0"

WALL INFILL @ CONC PANEL 3

MB conc wall infill.dwg

SCALE: 3"=1'-0"

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CONSULTANT

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FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

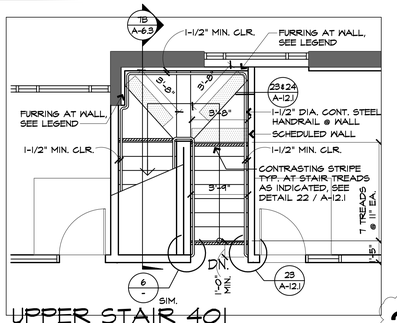
ARCHITECTURAL DETAILS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

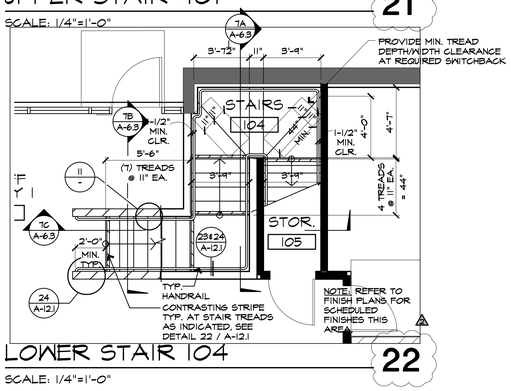
A-14.1



UPPER STAIR 401

21

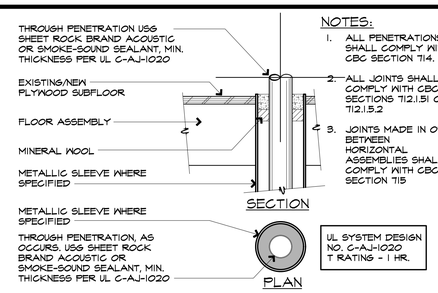
SCALE: 1/4"=1'-0"



LOWER STAIR 104

22

SCALE: 1/4"=1'-0"



NOTES:

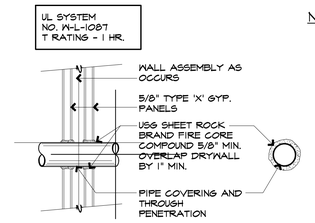
1. ALL PENETRATIONS SHALL COMPLY WITH CBC SECTION 714.
2. ALL JOINTS SHALL COMPLY WITH CBC SECTIONS 712.1.15.1 OR 712.1.15.2
3. JOINTS MADE IN OR BETWEEN HORIZONTAL ASSEMBLIES SHALL COMPLY WITH CBC SECTION 715

VERTICAL PENETRATION AT HORIZONTAL RATING

11

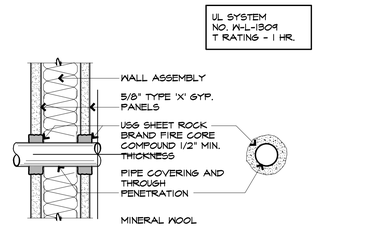
SCALE: 3"=1'-0"

VERT-PEN_HORZ-RAT.dwg DIV-04



NOTES:

1. PENETRATIONS THROUGH FIRE WALL, FIRE BARRIERS, SMOKE BARRIER WALLS AND FIRE PARTITIONS SHALL COMPLY WITH CBC SECTIONS 714.4.1 THROUGH 714.4.3.
2. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRE STOP SYSTEM AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479.

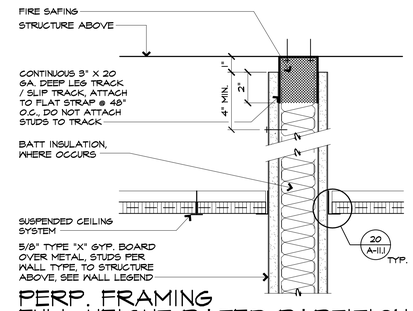


HORIZONTAL PENETRATIONS AT VERTICAL RATING

1

SCALE: 3"=1'-0"

HORZ-PEN_VERT-RAT.dwg DIV-04

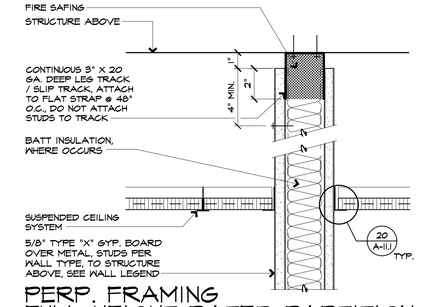


PERP. FRAMING FULL HEIGHT RATED PARTITION

7

SCALE: 3"=1'-0"

PTN-FHR.dwg DIV-04



PERP. FRAMING FULL HEIGHT RATED PARTITION

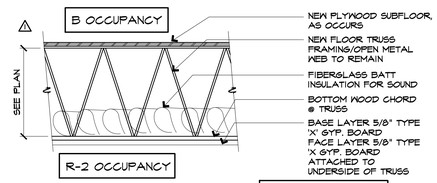
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SCALE: 3"=1'-0"

PTN-FHR.dwg DIV-04

NOTES:

1. ALL PENETRATIONS SHALL COMPLY WITH CBC SECTION 714.
2. ALL JOINTS SHALL COMPLY WITH CBC SECTIONS 712.1.15.1 OR 712.1.15.2
3. JOINTS MADE IN OR BETWEEN HORIZONTAL ASSEMBLIES SHALL COMPLY WITH CBC SECTION 715
4. REFER TO DETAIL 12/A-14.2 FOR TYPICAL VERTICAL PENETRATIONS.



BASIS FOR DESIGN GYPSUM ASSOCIATION GA FILE NO. FC5406 GA MANUAL 19TH ED. ICC-ES 1398

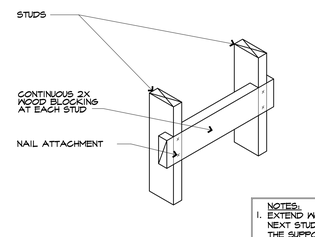
18

I HOUR-RATED FLOOR ASSEMBLY

13

SCALE: 1 1/2"=1'-0"

HOUR-FLOOR2



NOTES:

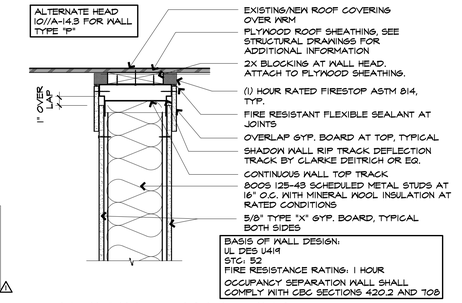
1. EXTEND WOOD BLOCKING TO THE NEXT STUD BEYOND THE END OF THE SUPPORTED ITEM.
2. USE THIS BLOCKING FOR GRAB BARS, HANDRAILS, WALL HUNG CABINETS, ETC.

TYP WOOD WALL BACKING

8

SCALE: 1 1/2"=1'-0"

WALLBACKS_WOOD.dwg



BASIS OF WALL DESIGN:
UL DES U419
STC: 52
FIRE RESISTANCE RATING: 1 HOUR
OCCUPANCY SEPARATION WALL SHALL COMPLY WITH CBC SECTIONS 420.2 AND 708

DEMISING WALL HEAD

3

SCALE: 1 1/2"=1'-0"

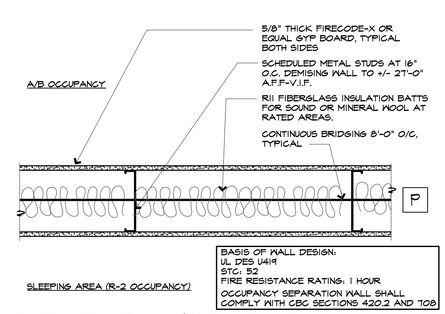
DEMISING WALL HEAD_B

1- HOUR RATED WALL@2ND FLR

14

SCALE: 1 1/2"=1'-0"

FF



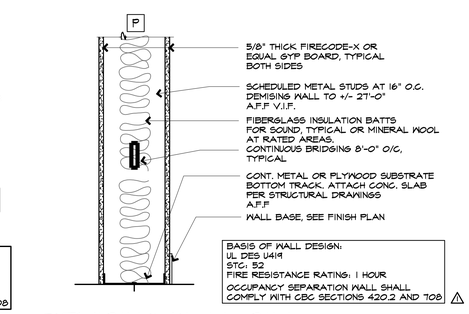
BASIS OF WALL DESIGN:
UL DES U419
STC: 52
FIRE RESISTANCE RATING: 1 HOUR
OCCUPANCY SEPARATION WALL SHALL COMPLY WITH CBC SECTIONS 420.2 AND 708

SEPARATION/DEMISING WALL

9

SCALE: 1 1/2"=1'-0"

FF DIV-XXX



BASIS OF WALL DESIGN:
UL DES U419
STC: 52
FIRE RESISTANCE RATING: 1 HOUR
OCCUPANCY SEPARATION WALL SHALL COMPLY WITH CBC SECTIONS 420.2 AND 708

DEMISING WALL SILL

4

SCALE: 1 1/2"=1'-0"

FF

NOTE:
1. SEE WALL LEGEND FOR 1-HOUR WALL REQUIREMENTS.
2. SEE STRUCTURAL DRAWINGS.

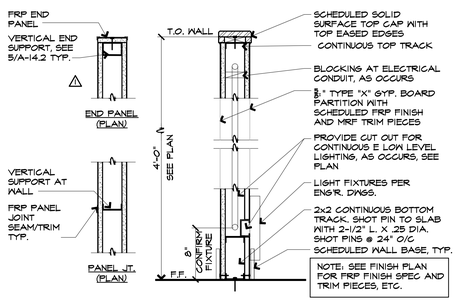
20

WOOD STUD WALL SILL @ CONC.

15

SCALE: 3"=1'-0"

WOOD_SILL_CONC



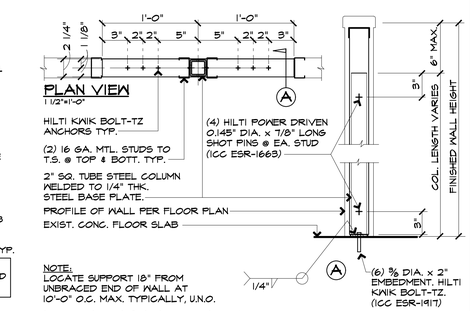
NOTE: SEE FINISH PLAN FOR FRP FINISH SPEC AND TRIM PIECES, ETC.

LOW WALL PARTITION PNL WALL

10

SCALE: 1 1/2"=1'-0"

Low Partition Panel Wall-1.dwg



NOTE:
LOCATE SUPPORT 18" FROM UNBRACED END OF WALL AT 10'-0" O.C. MAX. TYPICALLY, U.N.O.

LOW WALL SUPPORT

5

SCALE: 1 1/2"=1'-0"

Low PTN-Bracer.dwg DIV-04

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CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

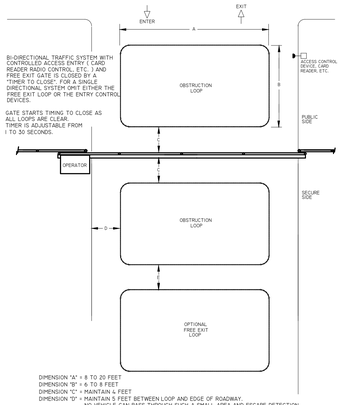
ARCHITECTURAL DETAILS

Revisions	By	Date
1 PC CORR 1/BID ISSUE 1	DAE	4/29/26
2 BLG DP CR 2/CLARIF	DAE	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

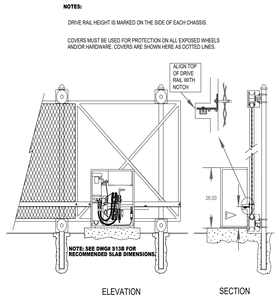
Sheet

A-14.2



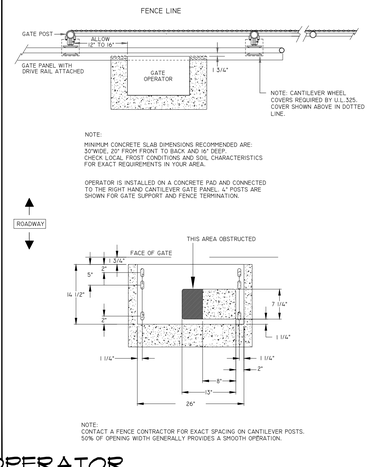
SLIDIING GATE LOOP LAYOUT 21

SCALE: N.T.S



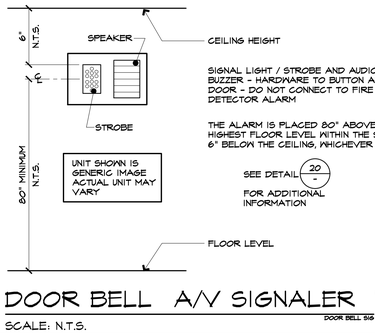
GATE OPERATOR 16

SCALE: N.T.S



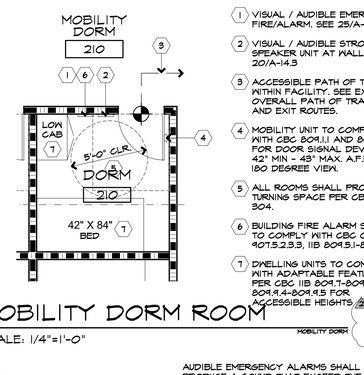
OPERATOR CANTILEVER PANEL GATE 23

SCALE: N.T.S



GATE DRIVE RAIL 18

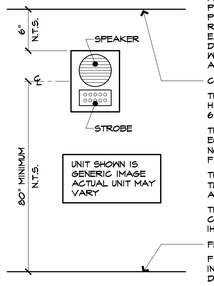
SCALE: N.T.S



MOBILITY DORM ROOM 24

MOBILITY DORM

SCALE: 1/4"=1'-0"



VISUAL/AUDIBLE FIRE ALARM 25

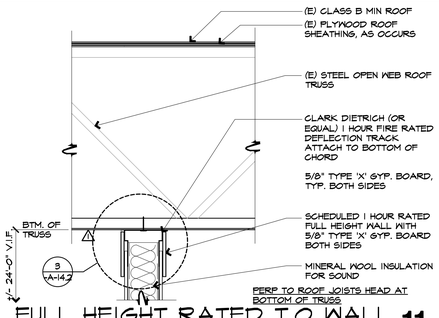
VIS-AUD FIRE ALARM

SCALE: N.T.S.

DOOR BELL A/V SIGNALER 20

DOOR BELL SIG

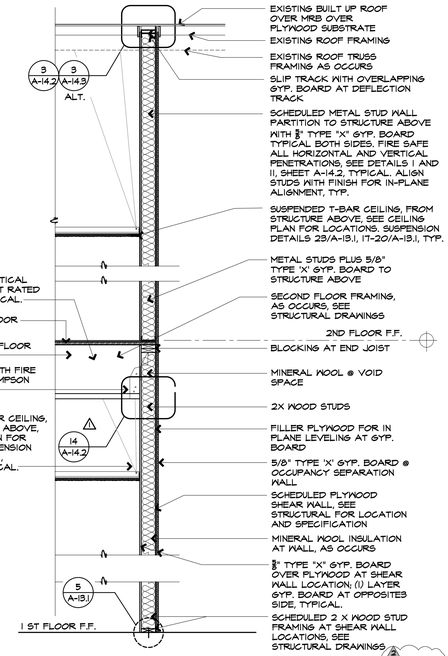
SCALE: N.T.S.



FULL HEIGHT RATED T.O WALL 11

FULLHT_RATED_PERP_RFJOIST

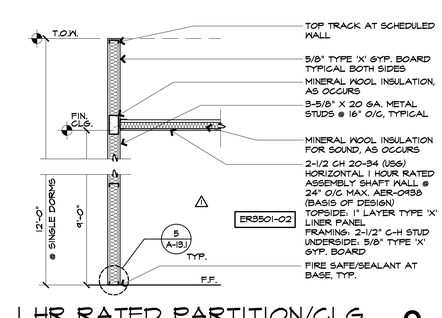
SCALE: 1"=1'-0"



ONE HOUR RATED SHEAR WALL 13

FF

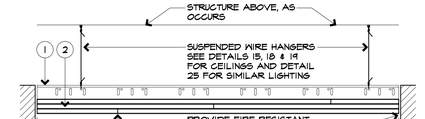
SCALE: 1/2"=1'-0"



1 HR RATED PARTITION/CLG 6

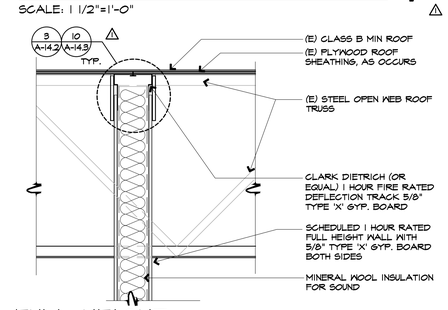
1HR_RATED_PART_CLG

SCALE: 1/2"=1'-0"



1 HOUR SUSPENDED CLG. ASSEMBLY 7

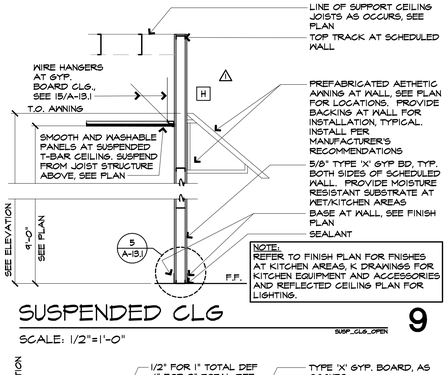
SCALE: 1 1/2"=1'-0"



FULL HEIGHT RATED T.O WALL PERP TO ROOF JOISTS AT ROOF 8

FULLHT_RATED_TOP_WALL

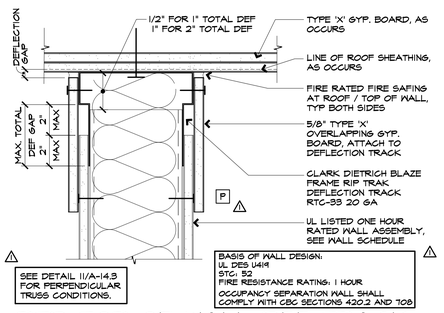
SCALE: 1"=1'-0"



SUSPENDED CLG 9

SUSP_CLG_OPEN

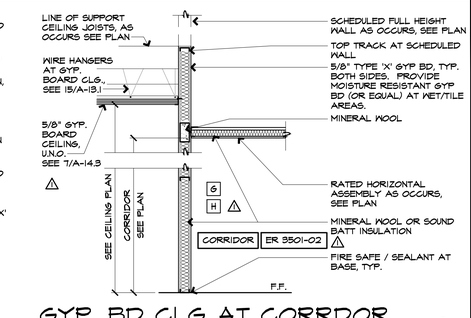
SCALE: 1/2"=1'-0"



RTD TOP OF WALL DEF TRACK 10

RTD_DEF_TRACK

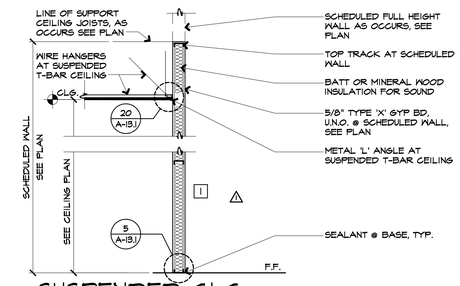
SCALE: 3"=1'-0"



GYP. BD CLG AT CORRDOR 1

6B_CORRIDOR

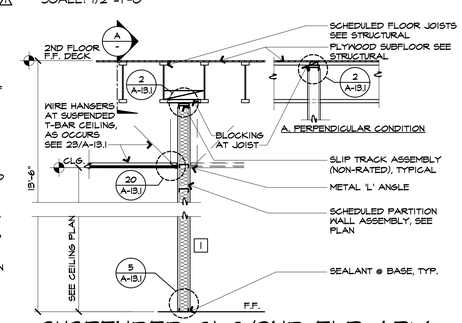
SCALE: 1/2"=1'-0"



SUSPENDED CLG @ NON-RATED WALL 2

SUSP_CLG_NR

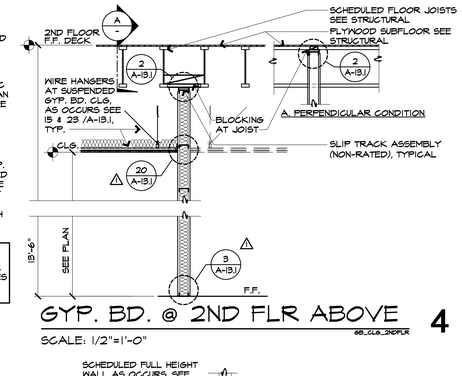
SCALE: 1/2"=1'-0"



SUSPENDED CLG/2ND FLR ABV 3

SUSP_CLG_2NDFLR

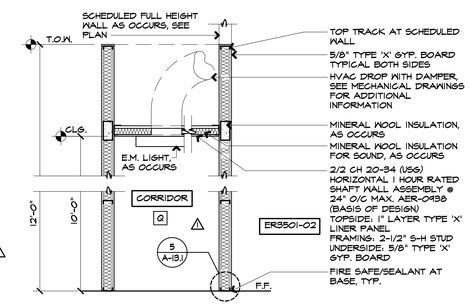
SCALE: 1/2"=1'-0"



GYP. BD. @ 2ND FLR ABOVE 4

6B_CLG_2NDFLR

SCALE: 1/2"=1'-0"



TYP. (1) HR RATED CORRIDOR 5

1HR_RATED_CORR

SCALE: 1/2"=1'-0"

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CONSULTANT

PROJECT

WEST END REGIONAL NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA CALIFORNIA

TITLE

ARCHITECTURAL DETAILS

Revisions		By	Date
1	PC CORR 1/BID ISSUE 1	MFM	4/29/26
2	PC CORR 2 / ADD 2	MFM	6/12/26

Drawn	MFM
Date	2/13/26
Project No.	25011
Scale	AS NOTED

Sheet

A-14.3

WATER AND WASTE SERVICE CALCULATIONS

JOB NAME: REGIONAL NAVIGATION CENTER - FONTANA DATE: 06/12/26

ITEM	FIXTURE TYPE	NO.	WASTE		COLD WATER		HOT WATER		TOTAL WATER
			FU	TOTAL	FU	TOTAL	FU	TOTAL	FU
FOODSERVICE EQUIPMENT									
K12	PREP SINK	1	0	0	1.5	1.5	1.5	1.5	2
K19	ICE MAKER	1	0	0	0.5	0.5	0	0	0.5
K21	FLOOR TROUGH	1	3	3	0.0	0	0	0	0
K23	HAND SINK	1	2	2	1.5	1.5	1.5	1.5	2
K25	PREP SINK	1	0	0	1.5	1.5	1.5	1.5	2
K40	TILT SKILLET	1	0	0	0.75	0.75	0.75	0.75	1
K41	FLOOR TROUGH	1	3	3	0.0	0	0	0	0
K52	HAND SINK	2	2	4	1.5	3	1.5	3	4
K64	3 COMPARTMENT SINK	1	3	3	4.5	4.5	4.5	4.5	6
K70	HIGH TEMP DISHMACHINE	1	0	0	0.0	0	6	6	6
K71	PRE-RINSE SINK	1	0	0	4.5	4.5	4.5	4.5	6
K79	BREWER	1	0	0	0.5	0.5	0	0	0.5
K80	BREWER	1	0	0	0.5	0.5	0	0	0.5
PLUMBING FIXTURES									
WB-1	CLOTHES WASHER	4	3	12	3.0	12	3	12	16
DF-1	DRINKING FOUNTAIN	2	0.5	1	0.5	1	0	0	1
HB-1	HOSE BIBB	1	0	0	2.5	2.5	0	0	2.5
HB-1	HOSE BIBB (EA ADDT'L)	6	0	0	1.0	6	0	0	6
RH-1	ROOF HYDRANT (EA ADDT'L)	3	0	0	1.0	3	0	0	3
KS-1	KITCHEN SINK (DOMESTIC)	2	2	4	1.5	3	1.5	3	4
OB-1	WALL OUTLET BOX	6	0	0	0.5	3	0	0	3
L-1	LAVATORY (SINGLE)	16	1	16	0.75	12	0.75	12	16
L-2	LAVATORY (SINGLE)	7	1	7	0.75	5.25	0.75	5.25	7
MS-1	SERVICE SINK	5	3	15	2.25	11.25	2.25	11.25	15
FD-1	FLOOR DRAIN (EMERGENCY)	17	0	0	0.0	0	0	0	0
FS-1	FLOOR SINK RECEPTOR	8	3	24	0.0	0	0	0	0
SH-1	SHOWER	21	2	42	1.5	31.5	1.5	31.5	42
SH-2	SHOWER	5	2	10	1.5	7.5	1.5	7.5	10
BT-1	BATH TUB/SHOWER	2	3	6	3.0	6	3	6	8
S-1	SINK, 1-1/2" TRAP	6	2	12	1.5	9	1.5	9	12
UR-1	URINAL	7	4	28	4.0	28	0	0	28
TD-1	TRENCH DRAIN	12	0	0	0.0	0	0	0	0
TD-2	TRENCH DRAIN	4	0	0	0.0	0	0	0	0
WC-1	WATER CLOSET, FV	26	4	104	5.0	130	0	0	130
TOTAL FU				296.00		289.75		120.75	334.00
EQUIVALENT COLD WATER FLOW RATE (GPM):							117		
PRESSURE AVAILABLE AT MAIN (PSI):							83/70	HIGH/LOW	
NEW 3" METER LOSS (PSI):							1.2		
NEW 3" BACKFLOW PREVENTER LOSS (PSI):							12		
PRESSURE AVAILABLE AT PRV INLET (PSI):							56.80		
NEW 3" PRV SETPOINT (PSI):							80		
3" PRV FALL-OFF PRESSURE AT FULL FLOW (PSI):							3		
PRESSURE AVAILABLE AT PRV OUTLET (PSI):							53.80		
ELEVATION RISE (FT):						26 FT	11	PSI	
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):							425		
FRICTION LOSS PRESSURE AVAILABLE (PSI):							22.52		
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):							5.30		

VALVE SCHEDULE

TAG	MANUFACTURER MODEL NO.	APPLICATION	INLET	OUTLET	NOTES
PRV-1	ZURN 500XLYSBR	DOMESTIC WATER PRESSURE REDUCING VALVE	3"	3"	1, 4

NOTES:
1. VALVE 1 SHALL BE INSTALLED IN PARALLEL PER DETAIL 02/P7.2.
2. SET TO 7.0" W.C.
3. 1.5 GPM FLOW
4. INSTALL PER MANAUFACTURER'S INSTALLATION INSTRUCTIONS.

PIPING MATERIAL SCHEDULE

SYSTEM	ABBREVIATION	LOCATION	SIZE	MATERIAL	CONNECTION
DOMESTIC WATER	CW	BELOW GRADE	3" & UP	COPPER TYPE "L" ASTM B42	SOLDERED
		ABOVE GRADE	ALL	COPPER TYPE "L" ASTM B88	SOLDERED
DOMESTIC HOT WATER SUPPLY/RETURN	HW/R	ABOVE GRADE	ALL	COPPER TYPE "L" ASRM B88	SOLDERED
LOW PRESSURE GAS	G	ABOVE GRADE	ALL	SCH. 40 BLACK STEEL ASTM A53	COUPLED
SANITARY SEWER/VENT	S/W&V	BELOW GRADE	ALL	PVC PIPE ASTM D2665/D3034	SOLVENT
		ABOVE GRADE		NO HUB CAST IRON ASTM A74	COUPLED
GREASE WASTE	GW	BELOW GRADE	ALL	NO HUB CAST IRON ASTM A74	COUPLED
		ABOVE GRADE	ALL	NO HUB CAST IRON ASTM A74	COUPLED
CONDENSATE DRAIN	CD	ABOVE GRADE	ALL	COPPER TYPE "K" ASTM B75	SOLDERED
INDIRECT DRAIN	IND	ABOVE GRADE	ALL	PVC PIPE ASTM D2665/D3034	WELDED

KITCHEN HOT WATER DEMANDS

ITEM	DESCRIPTION	QTY	G.P.H.	TOTAL
K23,(2)K52	HAND SINK	3	5	15
K71,K72	PRE RINSE	1	15	15
K62,K64,K65	3-COMP SINK	1	45	45
K70	DISHWASHER	1	40	40
K12	PREP SINK	1	15	15
K40	TILT SKILLET	1	5	5
K27	PREP SINK	1	15	15
MS-1	MOP SINK	1	15	15
TOTAL HOT WATER G.P.H.				165

NOTES:
1. SINCE THE FOOD FACILITY USES MULTI SERVICE EATING AND DRINKING UTENSILS, THE WATER HEATER SHALL HAVE A RECOVERY RATE EQUAL TO OR GREATER THAN 100% OF THE COMPUTED HOURLY HOT WATER DEMAND.

2. CALCULATED HOT WATER DEMAND = 165 GPH
3. INLET WATER TEMPERATURE = 60°F
4. OUTLET WATER TEMPERATURE = 140°F
5.TEMPERATURE RISE = 80°F

POTABLE WATER PIPE SCHEDULE

NOMINAL TUBING SIZE	COLD WATER PIPING		HOT WATER PIPING	
	EQUIVALENT WSFU'S		EQUIVALENT WSFU'S	REFER TO NOTE
	FLUSH TANK	FLUSH VALVE		
1/2"	6	0	3	1
3/4"	16	0	8	
1"	30	0	16	
1-1/4"	56	14	28	
1-1/2"	103	35	46	
2"	259	136	119	
2-1/2"	469	351	245	

NOTES:
1.1/2" NOMINAL TUBING SIZE IS FOR FIXTURE CONNECTIONS ONLY AND SHALL NOT BE USED FOR BRANCH PIPING.
2. SIZING BASED ON FRICTION LOSS OF 5.2 PSI PER 100 FEET.
3. GPM AND WSFU'S LIMITED BY 8.0 FPS VELOCITY FOR COLD WATER
4. GPM AND WSFU'S LIMITED BY 5.0 FPS VELOCITY FOR HOT WATER
5. INSIDE POTABLE WATER SUPPLY PIPING SHALL BE OF TYPE "L" COPPER.

GAS WATER HEATER SCHEDULE

TAG	MANUFACTURER MODEL NO.	RECOVERY RISE (GAL)	INPUT (MBH)	GAS PRESSURE (IN. OF W.C.)	DIMENSIONS (DIA X H)	CAPACITY (GAL)	WATER INLET	WATER OUTLET	NOTES
WH-1	AO SMITH BTH-199	392 @ 60°F	199.9	8" WC	27 3/4" x 76 1/2"	100	1-1/2"	1-1/2"	1,3
WH-2	AO SMITH BTH-120	230 @ 60°F	120	8" WC	27 3/4" X 55 1/2"	60	1-1/2"	1-1/2"	1,3
WH-3	AO SMITH BTH-199	392 @ 60°F	199.9	8" WC	27 3/4" x 76 1/2"	100	1-1/2"	1-1/2"	1,3
WH-K	AO SMITH BTH-120	230 @ 80°F	120	8" WC	27 3/4" X 55 1/2"	60	1-1/2"	1-1/2"	2,3

NOTES:
1. ADJUST WATER HEATER OPERATING TEMPERATURE CONTROLS FOR 120°F HOT WATER
2. ADJUST WATER HEATER OPERATING TEMPERATURE CONTROLS FOR 140°F HOT WATER
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ALL NECESSARY INSTALLATION HARDWARE. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.

EXPANSION TANK SCHEDULE

TAG	MANUFACTURER MODEL NO.	TYPE	VOLUME (GAL.)	HEIGHT (IN.)	DIAMETER (IN.)	WEIGHT (LBS.)	WATER CONN (IN.)	MOUNTING TYPE	NOTES
ET-1	AMTROL #ST-5	DIAPHRAGM	2	13	8	23	3/4	IN-LINE	1, 2, 3

NOTES:
1. EXPANSION TANK SHALL BE FABRICATED OF CARBON STEEL WITH POLYPROPELYNE LINER AND HEAVY DUTY, BUTYL RUBBER DIAPHRAGM.
2. EXPANSION TANK SHALL BE SUITABLE FOR USE IN POTABLE WATER SYSTEMS.
3. PROVIDE THE MANUFACTURER'S PRINTED SIZING INSTRUCTIONS ON THE THERMAL EXPANSION TANK.

PUMP SCHEDULE

TAG	MANUFACTURER MODEL NO.	TYPE	FLOW RATE (GPM)	PUMP HEAD (FT.)	MOTOR POWER	ELECTRICAL	NOTES
RP-1	BELL & GOSSETT SERIES 100	INLINE	5.0	8	1/12 HP	120/1/60	1, 2, 3, 4, 5

NOTES:
1. LEAD FREE BRONZE BODY.
2. PROVIDE 3/4" COMPANION FLANGES.
3. PROVIDE WITH ADJUSTABLE TIMER AND THERMOSTAT.
4. BALANCING VALVES SHALL BE INSTALLED IN THE RECIRCULATION PIPING AS SHOWN ON PLANS.
5. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GREASE INTERCEPTOR SCHEDULE

TAG	LOCATION	MANUFACTURER & MODEL NO.	SIZE (L X W X H)	VOLUME (GALLONS)	SERVICE	MAXIMUM DRAINAGE FIXTURE UNITS (PER CURRENT CPC)	NOTES
GI-1	SITE	JENSEN PRECAST JP1500G	130 1/4" x 72" x 72"	1500 GAL	SEE PLANS	172 DFU	1, 2

NOTES:
1. HEIGHT WILL VARY BASED ON MANHOLE RISERS NEEDED FOR THE PROJECT.
2. INSTALL GREASE INTERCEPTOR AND SAMPLE BOX PER JENSEN PRECAST SPECIFICATIONS AND DETAIL 1/P501

GREASE FIXTURE LOADS

ID	DESCRIPTION	QTY.	DFU	TOTAL DFU
FS-1	FLOOR SINK	5	3	15
K21, K41	TROUGH	2	3	6
MS-1	MOP SINK	1	3	3
K63	3-COMPARTMENT SINK	1	3	3
			TOTAL DFU:	27

NOTES:
1. DFU: DRAINAGE FIXTURE UNIT PER CPC TABLE 702.1.
2. GREASE INTERCEPTOR MINIMUM SIZE: 1000 GAL PER CPC TABLE 1014.3.6.

CONDENSATE DRAIN SIZING TABLE

EQUIPMENT CAPACITY	MINIMUM CONDENSATE PIPE DIAMETER (INCHES)				
	3/4"	1"	1-1/4"	1-1/2"	2"
TONS OF REFRIGERATION	UP TO 20	21 - 40	41 - 90	91 - 125	126 - 250

NOTES:
1. BASED ON 2025 CPC TABLE 814.3.

2

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	FIXTURE CONNECTIONS					GPM G.P.F	FLOOD RIM (A.F.F.)	DESCRIPTION
		TRAP	WASTE	VENT	C.W.	H.W.			
WC-1	WATER CLOSET	INT.	4"	2"	1-1/4"	---	1.28 GPF	17"	MANSFIELD 1319 ADRIATIC ELONGATED FRONT FLUSH VALVE TOILET. PROVIDE WITH SLOAN REGAL 111-1.28-XL-CP BATTERY OPERATED FLUSH VALVE. PROVIDE WITH TRAPTEX T-1000 (OR EQUAL) METAL INSERT FOR PREVENTING CLOGS.
UR-1	URINAL	INT.	2"	1-1/2"	3/4"	---	0.125 GPF	SEE ARCH.	MANSFIELD 414 CASCADE II WALL-HUNG VITEROUS CHINA URINAL. PROVIDE WITH SLOAN REGAL 186-0.125-CL-CP BATTERY-OPERATED FLUSH VALVE.
L-1	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	0.5 GPM	SEE ARCH.	MANSFIELD 217 MAPLE, UNDER-MOUNT LAVATORY OF VITREOUS CHINA. PROVIDE CHICAGO FAUCETS 3400-ABCP SINGLE SUPPLY METERING FAUCET WITH 0.2 GPC MAX. PROVIDE WITH STRAINER DRAIN. PROVIDE BRADLEY S59-4000A MIXING VALVE SET TO 105°F
L-2	LAVATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	0.5 GPM	SEE ARCH.	MANSFIELD 2018HBNS GRANDE ISLE, WALL HUNG LAVATORY OF VITREOUS CHINA. PROVIDE CHICAGO FAUCETS 3400-ABCP SINGLE SUPPLY METERING FAUCET WITH 0.2 GPC MAX. PROVIDE WITH STRAINER DRAIN. PROVIDE BRADLEY S59-4000A MIXING VALVE SET TO 105°F
BT-1	BATH TUB SHOWER	2"	2"	2"	1/2"	1/2"	1.5 GPM	SEE ARCH.	KOHLER K-26109 ENTITY 60" X 30" ALCOVE BATH. DRAIN SIDE PER FLOOR PLAN. PROVIDE WITH SYMMONS ORIGINS 9604-PLR TUB/HAND SHOWER TRIM
TD-1	TRENCH DRAIN	2"	2"	1 1/2"				SEE ARCH.	ZURN STAINLESS STEEL LINEAR SHOWER DRAIN, MODEL ZS880-36.
TD-2	TRENCH DRAIN	2"	2"	1-1/2"				SEE ARCH.	ZURN STAINLESS STEEL LINEAR SHOWER DRAIN, MODEL ZS880-60
SH-1	SHOWER	2"	2"	2"	1/2"	1/2"	1.5 GPM	SEE ARCH.	ZURN TEMP-GARD III Z7301-SS-ST SHOWER HEAD TRIM
SH-2	SHOWER	2"	2"	2"	1/2"	1/2"	1.5GPM	SEE	SYMMONS ORIGINS S-9603-PLR HAND SHOWER TRIM
MS-1	MOP SINK	3"	3"	1-1/2"	1/2"	1/2"	2.2 GPM	ARCH.	ZURN Z1996-24 FLOOR MOUNTED MOP BASIN, PROVIDE WITH CHICAGO FAUCETS 897-RCF WALL MOUNTED FAUCET WITH INTEGRAL VACUUM BREAKER.
S-1	SINK	2"	2"	2"	1/2"	1/2"	0.5 GPM	SEE	ELKAY LUSTERSTONE CLASSIC STAINLESS STEEL SINGLE BOWL UNDERMOUNT ADA SINK MODEL ELUHAD141455PD. PROVIDE WITH KOHLER SIMPLICE K-596 FAUCET.
KS-1	KITCHEN SINK	2"	2"	2"	1/2"	1/2"	0.5 GPM	ARCH.	ELKAY LUSTERTONE CLASSIC STAINLESS STEEL DOUBLE BOWL DROP-IN ADA SINK MODEL LRAD291855, PROVIDE WITH KOHLER SIMPLICE K-596 FAUCET.
FS-1	FLOOR SINK	3"	3"	1-1/2"	---	---	---	FLUSH	JAY R. SMITH #3004Y-12 SANICEPTOR SQUARE FLOOR SINK.
FD-1	FLOOR DRAIN	2"	2"	1-1/2"	THRU TP	---	---	FLUSH	JAY R. SMITH #2005 5" ROUND FLOOR DRAIN WITH 2" NO-HUB OUTLET. PROVIDE WITH TRAP PRIMER CONNECTION.
FCO	FLOOR CLEANOUT	---	SEE PLANS	---	---	---	N/A	FLUSH	JAY R. SMITH #4020, INSTALLED FLUSH WITH FLOOR.
WCO	WALL CLEANOUT	---	SEE PLANS	---	---	---	N/A	18" AFF	JAY R. SMITH #4402, INSTALLED 18" ABOVE FINISHED FLOOR
GCO	GRADE CLEANOUT	---	SEE PLANS	---	---	---	N/A	FLUSH	JAY R. SMITH #4220 SERIES, INSTALLED FLUSH WITH GRADE.
TP-1	FLOW ACTIVATED TRAP PRIMER	---	---	---	1/2"	---	---	---	PPP, INC #P1-500 OR #P2-500 TRAP SEAL PRIMER. SEE DETAIL FOR MORE MODEL NUMBER AND DISTRIBUTION UNIT INFORMATION.
SA	WATER HAMMER ARRESTOR	---	---	---	1/2"	1/2"	---	PER INSTALL	SHOCK ARRESTOR BY WATTS REGULATOR OR APPROVED EQUAL. PROVIDE AT END OF ALL BRANCHES.
HB-1	HOSE BIBB	---	---	---	3/4"	---	2.2 GPM	---	ACORN #8151, 18 GAGE, TYPE 304 STAINLESS STEEL, RECESSED SINGLE TEMPERATURE SUPPLY BOX WITH VACUUM BREAKER AND KEY LOCK DOOR.
HB-2	HOSE BIBB	---	---	---	3/4"	---	2.2 GPM	SEE ARCH.	ACORN #8126CR-LF, ROUGH CHROME-PLATED WITH VACUUM BREAKER.
RH-1	ROOF HYDRANT	---	---	---	3/4"	---	---	SEE ARCH.	ACORN #8126CR-LF, ROUGH CHROME-PLATED WITH VACUUM BREAKER.
WB-1	WASHER WALLBOX	2"	2"	2"	1/2"	1/2"	0.5 GPM	APPROX 2'-10"	GUY GRAY FIRE RATED WASHING MACHINE OUTLET BOX #82375. WITH UP TO 2" STANDPIPE AND HOT AND COLD QUARTER TURN VALVES. INCLUDES WATER HAMMER ARRESTORS. RATED FOR 1 HOUR & 2 HOUR ASSEMBLIES.
OB-1	OUTLET BOX	---	---	---	1/2"	---	---	---	GUY GRAY #87944 WITH 3/8" OUTLET, QUARTER TURN ARRESTOR VALVE, AND 1/2" SWEAT CONNECTION. PROVIDE WITH ASSE 1024 BACKFLOW DEVICE.
DF-1	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"	---	---	SEE ARCH.	ELKAY MODEL #EDFPBM117C, WALL MOUNTED, BARRIER FREE ACCESS, BI-LEVEL

LOW PRESSURE GAS PIPE SCHEDULE

LESS THAN 2 PSI

NOMINAL PIPE SIZE (IN.)	CAPACITY (CFH)
1/2	22
3/4	46
1	86
1 1/4	177
1 1/2	266
2	512
2 1/2	816
3	1,440
4	2,940

NOTES:
1. BASED ON 2025 CALIFORNIA PLUMBING CODE TABLE 1215.2(1) FOR LESS THAN 2 PSI, TOTAL DEVELOPED LENGTH = 420 FT.

2

GAS LOADS

ID	DESCRIPTION	USE	CFH LOAD	QTY.	TOT. CFH
WH-1	WATER HEATER	SPACE HEATING	199.9	1	199.9
WH-2	WATER HEATER	SPACE HEATING	120	1	120
WH-3	WATER HEATER	SPACE HEATING	199.9	1	199
WH-4	WATER HEATER	SPACE HEATING	120	1	120
K36	DBL CONV OVEN	COOKING	120	1	120
K37	6 OPEN BURNER	COOKING	210	1	210
K39	GRIDDLE	COOKING	81	1	81
K40	TILT SKILLET	COOKING	113	1	113
DRYER	30LB DRYER	CLOTHES	73	2	146
DRYER	50 LB DRYER	CLOTHES	95	2	190
				TOTAL CFH:	1498.9

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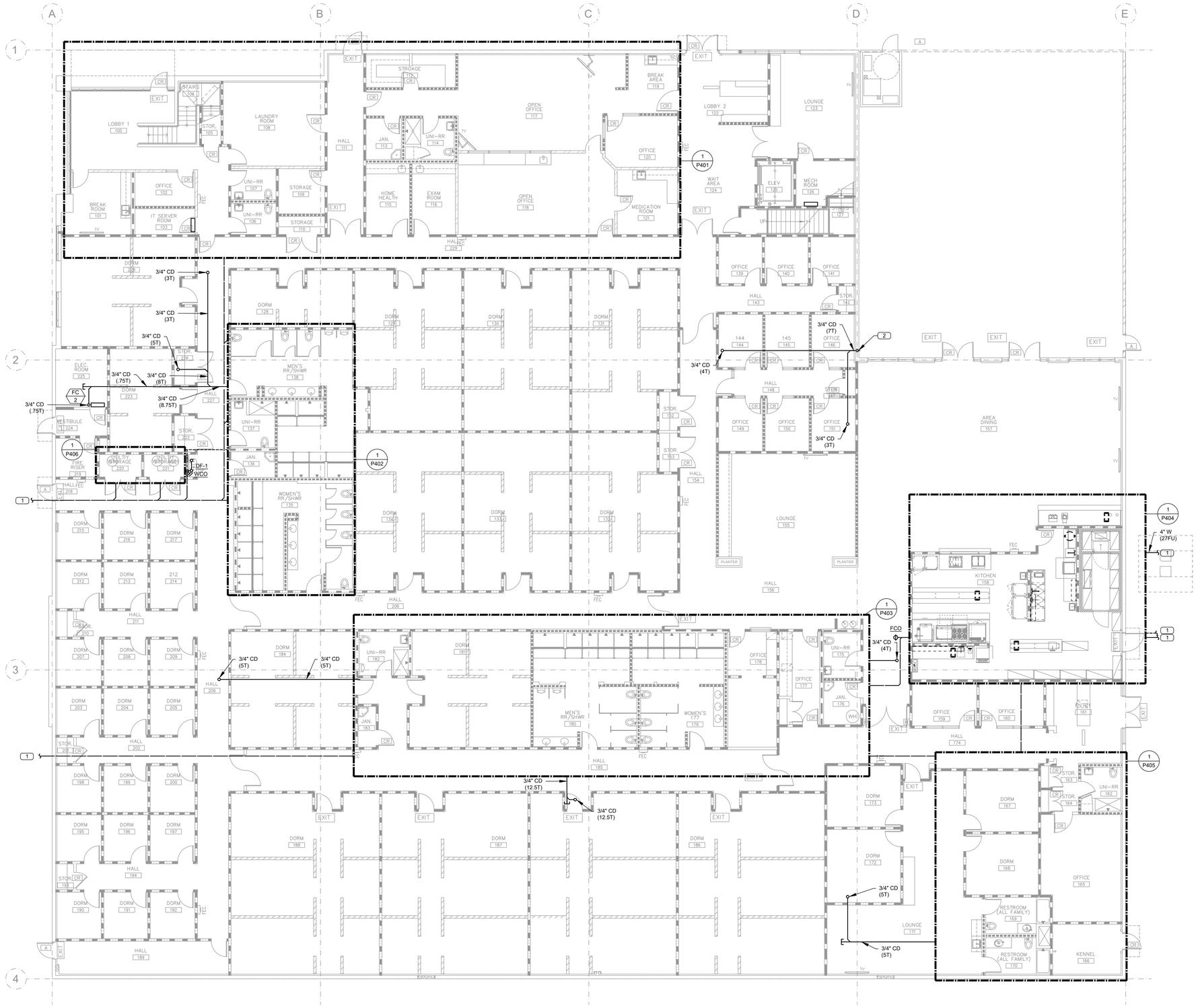
PLUMBING SCHEDULES, & CALCULATIONS

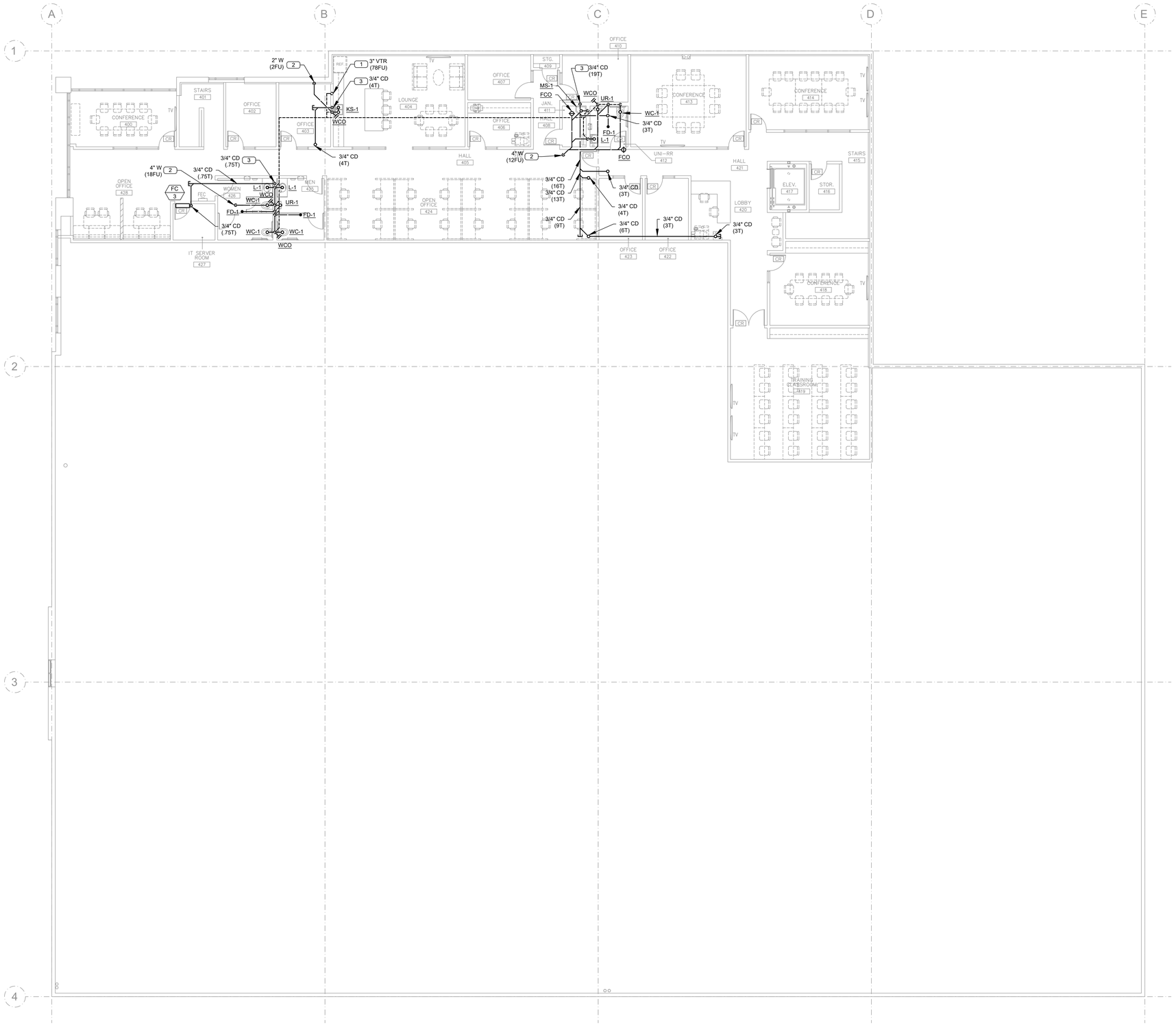
Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P011


A
B
C
D
E
1
2
3
4
LOBBY 1
104
STAIRS
104
STOR.
105
LAUNDRY ROOM
108
HALL
111
STORAGE
112
OPEN OFFICE
117
BREAK AREA
119
OFFICE
102
BREAK ROOM
101
IT SERVER ROOM
103
UNI-RR
107
UNI-RR
106
STORAGE
109
STORAGE
110
JAN.
113
UNI-RR
114
HOME HEALTH
115
EXAM ROOM
116
OPEN OFFICE
118
OFFICE
120
MEDICATION ROOM
121
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229
LOBBY 2
122
LOUNGE
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ELEV.
125
MECH. ROOM
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STOR.
127
OFFICE
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OFFICE
140
OFFICE
141
HALL
143
STOR.
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144
145
OFFICE
146
HALL
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STOR.
147
OFFICE
149
OFFICE
150
OFFICE
151
AREA DINING
157
LOUNGE
155
PLANTER
PLANTER
HALL
156
KITCHEN
158
FEC
OFFICE
159
OFFICE
160
ENTRY
161
HALL
174
DORM
128
DORM
129
DORM
130
DORM
131
MEN'S RR/SHWR
138
UNI-RR
137
JAN.
136
WOMEN'S RR/SHWR
135
STOR.
152
STOR.
153
HALL
154
DORM
134
DORM
133
DORM
132
HALL
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DORM
173
DORM
172
LOUNGE
171
DORM
167
DORM
168
STOR.
163
STOR.
164
UNI-RR
162
OFFICE
165
RESTROOM (ALL FAMILY)
169
RESTROOM (ALL FAMILY)
170
KENNEL
166
DORM
215
DORM
216
DORM
217
212
214
HALL
211
STOR.
210
DORM
207
DORM
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HALL
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STOR.
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STOR.
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DORM
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DORM
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DORM
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HALL
189
DORM
184
DORM
181
UNI-RR
182
JAN.
183
MEN'S RR/SHWR
180
WOMEN'S RR/SHWR
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OFFICE
178
OFFICE
177
UNI-RR
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JAN.
176
WH
DORM
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DORM
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DORM
186
HALL
185
ELEC. ROOM
225
DORM
223
VESTIBULE
224
FIRE RISER
219
HALL
227
STOR.
222
UNI-RR
137
JAN.
136
HALL
218
DORM
128
DORM
129
DORM
130
DORM
131
3/4" CD (3T)
3/4" CD (3T)
3/4" CD (5T)
3/4" CD (.75T)
3/4" CD (8T)
3/4" CD (8.75T)
FC 2
DF-1
WCO
1 P406
1 P402
1 P401
1 P403
1 P404
1 P405
2
3/4" CD (4T)
3/4" CD (7T)
3/4" CD (3T)
4" W (27FU)
FCO
3/4" CD (4T)
3/4" CD (5T)
3/4" CD (12.5T)
3/4" CD (12.5T)
3/4" CD (5T)
3/4" CD (5T)
3/4" CD (



GENERAL NOTES

1. NOTIFY AND OBTAIN LANDLORD'S REPRESENTATIVE APPROVAL OF SCHEDULED DOWN TIME DURATIONS THAT WOULD AFFECT OTHER PARTS OF BUILDING OPERATION NOT IN SCOPE OF WORK PRIOR TO COMMENCING THE WORK.
2. PIPING SHALL BE IDENTIFIED WITH A SERVICE MARKING WITH INDICATED AIRFLOW/ WATER FLOW DIRECTION OF THE SERVICE.
3. PLUMBING VENTS SHALL MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ALL AIR INTAKES. REFER TO MECHANICAL DRAWINGS FOR INTAKE LOCATIONS.
4. PROVIDE SHUT OFF VALVE FOR ALL CONNECTIONS AT PLUMBING FIXTURES.
5. INSULATION MATERIALS APPLIED TO PIPING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
6. REQUIRED OFFSETS, COMPONENTS, ACCESSORIES, AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED TO AVOID INTERFERENCES WITH UN-FORESEEN COMPONENTS.
7. PROVIDE DIELECTRIC UNIONS, GASKETS, AND FASTENERS AT DISSIMILAR METAL CONNECTIONS OF CONTACT POINTS.
8. TESTS SHALL BE COMPLETED BEFORE ANY PIPING INSULATION IS APPLIED.
9. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 8"X8" SIZE FOR VALVES, METERS, OR DEVICES REQUIRING MAINTENANCE. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
10. PROVIDE FIRESTOPPING FOR PIPE PENETRATIONS THROUGH RATED WALLS.
11. FIELD COORDINATE WITH THE STRUCTURAL CONTRACTOR THE EXACT LOCATION OF PIPING PENETRATIONS PRIOR TO ROUTING TO CONFIRM IT WILL NOT DISTURB EXISTING STRUCTURAL ELEMENTS.
12. FIELD VERIFY PRECISE PIPE ROUTING AND LOCATION OF ALL POC'S.
13. PATCH ANY CUT SLAB TO MATCH EXISTING
14. ALL SANITARY PIPING SHALL BE SLOPED AT 2% MINIMUM, UNLESS NOTED OTHERWISE.
15. PER CPC 309.5, THE PLUMBING PIPING SYSTEM WILL BE DESIGNED AND INSTALLED IN CONFORMANCE WITH SOUND LIMITATIONS AS REQUIRED IN CBC.
16. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1% MINIMUM. FIELD VERIFY EXACT PIPE ROUTING. INSTALL ALL CONDENSATE PIPING PER FAN COIL MANUFACTURER INSTALLATION INSTRUCTIONS.
17. ANTI-SCALDING SHOWER AND TUB-SHOWER COMBINATION VALVES ARE REQUIRED, SEE CPC SECTION 418.
18. THE FLOW RATES FOR ALL PLUMBING FIXTURES SHALL COMPLY WITH THE MAXIMUM FLOW RATES SPECIFIED IN CGBSC SECTION 5.303.3.
19. SANITARY AND DOMESTIC PIPING SHOWN DIAGRAMMATICALLY, FIELD VERIFY BEFORE INSTALLATION.
20. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO SECTION 609.10(1-3) OF THE 2025 CPC. CONTRACTOR SHALL PROVIDE A SIGNED DECLARATION TO THE INSPECTOR AT TIME OF INSPECTION THAT POTABLE WATER SYSTEM HAS BEEN DISINFECTED PER SECTION 609.10 OF THE 2025 CPC.

KEY NOTES (X)

1. 3" VENT THRU ROOF.
2. WASTE PIPE DOWN TO 1ST FLOOR.
3. 3/4" CONDENSATE DRAIN DOWN, CONNECT TO SINK TAILPIECE. SEE DETAIL 04/P501.

2ND FLOOR DRAINAGE PLAN | 1/8" = 1'-0" | 01

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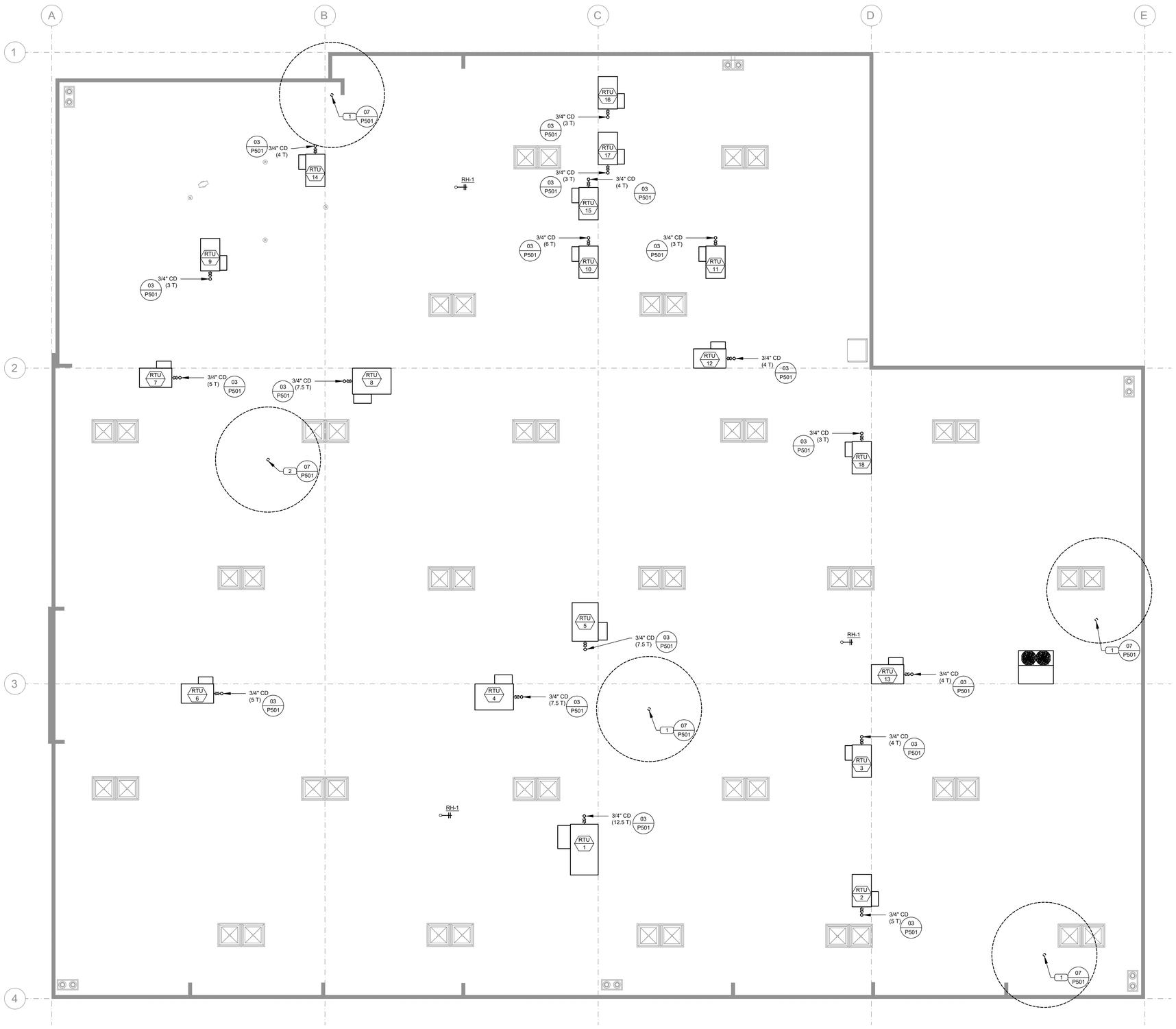
2ND FLOOR DRAINAGE PLAN

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P202



GENERAL NOTES

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3. PLUMBING VENTS SHALL MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ALL AIR INTAKES. REFER TO MECHANICAL DRAWINGS FOR INTAKE LOCATIONS.
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5. INSULATION MATERIALS APPLIED TO PIPING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
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KEY NOTES (X)

1. 3" VENT THRU ROOF.
2. 4" VENT THRU ROOF.

PLUMBING ROOF PLAN | 1/8" = 1'-0" | 01

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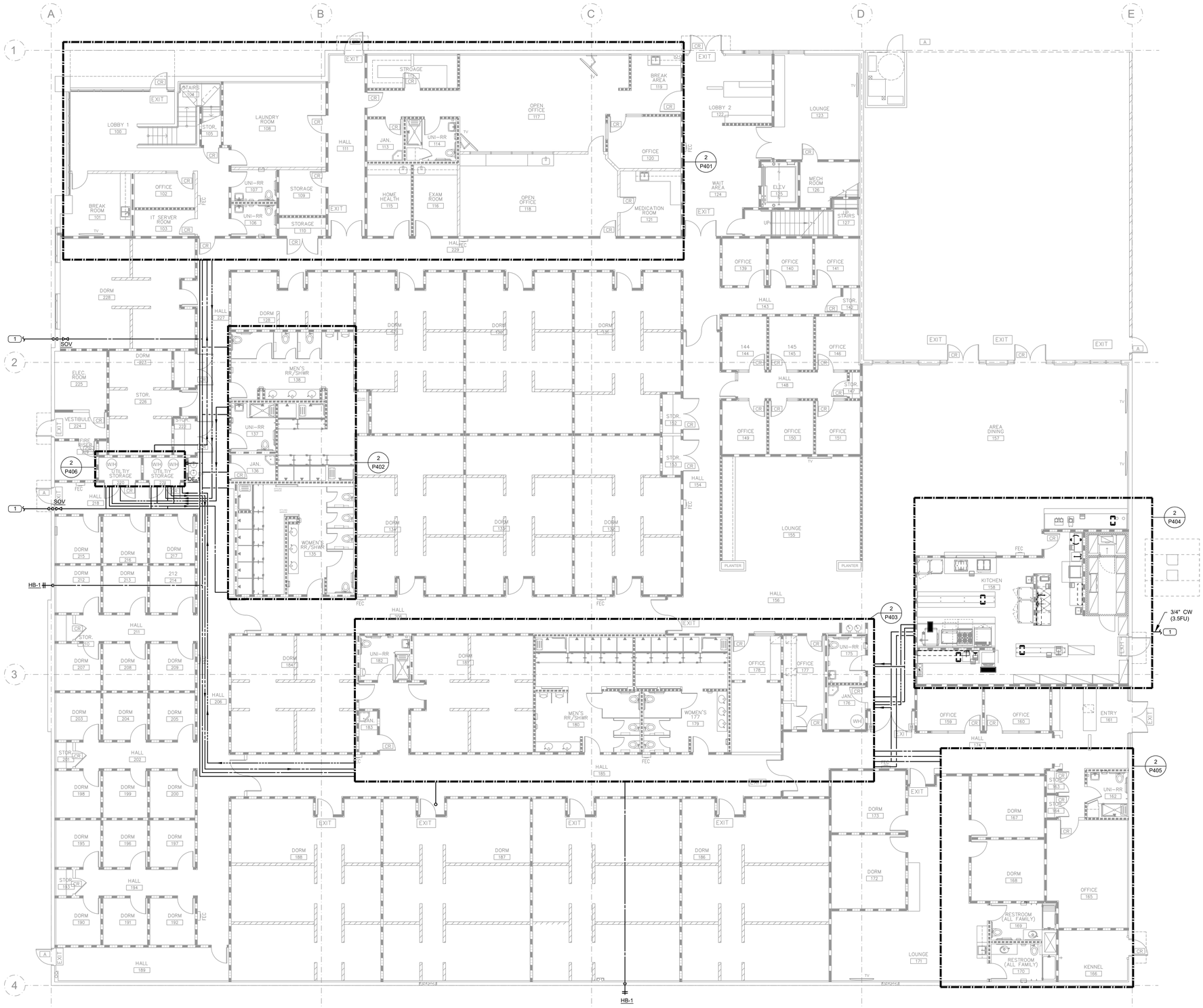
FOR
FONTANA
CALIFORNIA

TITLE
PLUMBING ROOF PLAN

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet
P211



GENERAL NOTES

1. NOTIFY AND OBTAIN LANDLORD'S REPRESENTATIVE APPROVAL OF SCHEDULED DOWN TIME DURATIONS THAT WOULD AFFECT OTHER PARTS OF BUILDING OPERATION NOT IN SCOPE OF WORK PRIOR TO COMMENCING THE WORK.
2. PIPING SHALL BE IDENTIFIED WITH A SERVICE MARKING WITH INDICATED AIRFLOW/ WATER FLOW DIRECTION OF THE SERVICE.
3. PLUMBING VENTS SHALL MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ALL AIR INTAKES. REFER TO MECHANICAL DRAWINGS FOR INTAKE LOCATIONS.
4. PROVIDE SHUT OFF VALVE FOR ALL CONNECTIONS AT PLUMBING FIXTURES.
5. INSULATION MATERIALS APPLIED TO PIPING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
6. REQUIRED OFFSETS, COMPONENTS, ACCESSORIES, AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED TO AVOID INTERFERENCES WITH UN-FORESEEN COMPONENTS.
7. PROVIDE DIELECTRIC UNIONS, GASKETS, AND FASTENERS AT DISSIMILAR METAL CONNECTIONS OF CONTACT POINTS.
8. TESTS SHALL BE COMPLETED BEFORE ANY PIPING INSULATION IS APPLIED.
9. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 8"X8" SIZE FOR VALVES, METERS, OR DEVICES REQUIRING MAINTENANCE. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATONS PRIOR TO INSTALLATION.
10. PROVIDE FIRESTOPPING FOR PIPE PENETRATIONS THROUGH RATED WALLS.
11. FIELD COORDINATE WITH THE STRUCTURAL CONTRACTOR THE EXACT LOCATION OF PIPING PENETRATIONS PRIOR TO ROUTING TO CONFIRM IT WILL NOT DISTURB EXISTING STRUCTURAL ELEMENTS.
12. FIELD VERIFY PRECISE PIPE ROUTING AND LOCATION OF ALL POC'S.
13. PATCH ANY CUT SLAB TO MATCH EXISTING
14. ALL SANITARY PIPING SHALL BE SLOPED AT 2% MINIMUM, UNLESS NOTED OTHERWISE.
15. PER CPC 309.5, THE PLUMBING PIPING SYSTEM WILL BE DESIGNED AND INSTALLED IN CONFORMANCE WITH SOUND LIMITATIONS AS REQUIRED IN CBC.
16. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1% MINIMUM. FIELD VERIFY EXACT PIPE ROUTING. INSTALL ALL CONDENSATE PIPING PER FAN COIL MANUFACTURER INSTALLATION INSTRUCTIONS.
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18. THE FLOW RATES FOR ALL PLUMBING FIXTURES SHALL COMPLY WITH THE MAXIMUM FLOW RATES SPECIFIED IN CGBSC SECTION 5.303.3.
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20. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO SECTION 609.10(1-3) OF THE 2025 CPC. CONTRACTOR SHALL PROVIDE A SIGNED DECLARATION TO THE INSPECTOR AT TIME OF INSPECTION THAT POTABLE WATER SYSTEM HAS BEEN DISINFECTED PER SECTION 609.10 OF THE 2025 CPC.

KEY NOTES (X)

1. SEE P101 FOR CONTINUATION.

1ST FLOOR SERVICE PLAN | 1/8" = 1'-0" | 01

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EXP. 12/31/27

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CALIFORNIA

TITLE

1ST FLOOR SERVICE PLAN

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P301

GENERAL NOTES

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KEY NOTES (X)

1. 1 1/2" DOMESTIC COLD WATER FROM BELOW.
2. 3/4" COLD WATER UP TO RH-1.

2ND FLOOR SERVICE PLAN | 1/8" = 1'-0" | 01

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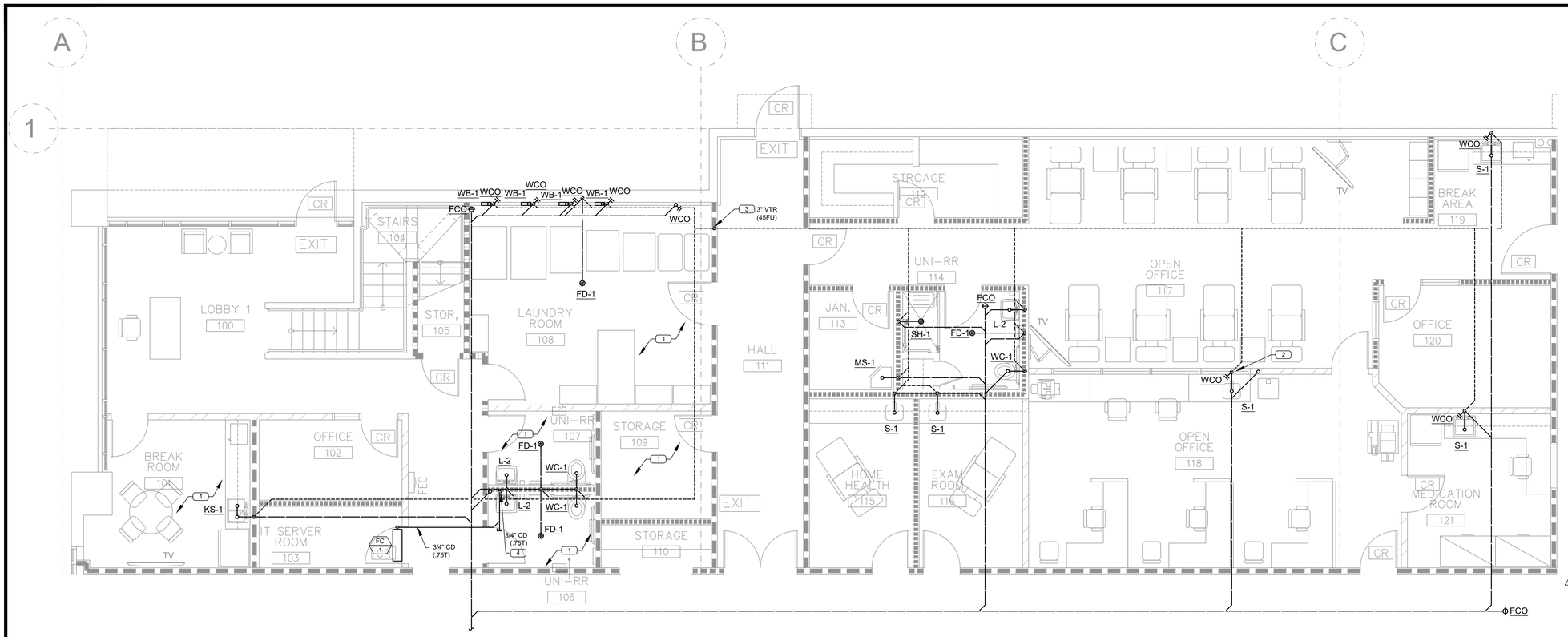
2ND FLOOR SERVICE PLAN

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

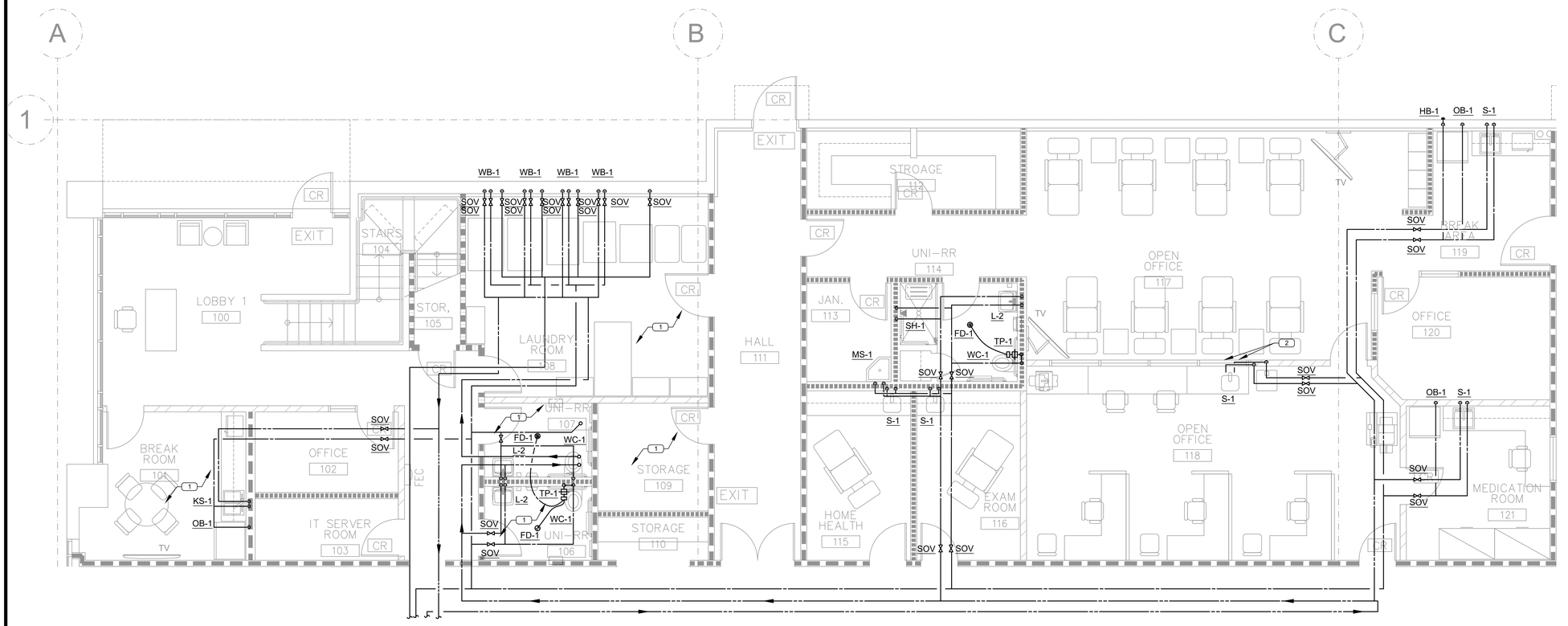
P302



PLUMBING ENLARGED DRAINAGE PLAN | 1/4" = 1'-0" | 01

GENERAL NOTES

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PLUMBING ENLARGED SERVICE PLAN | 1/4" = 1'-0" | 02

KEY NOTES (X)

1. EXISTING PLUMBING FIXTURES, EQUIPMENT AND COMPONENTS TO BE DEMOLISHED. ALL EXISTING PLUMBING PIPING SERVING EXISTING PLUMBING FIXTURES ARE TO BE DEMOLISHED AS REQUIRED.
2. OFFSET PIPING TO AVOID WINDOW.
3. 3" VENT UP.
4. 3/4" CONDENSATE DRAIN DOWN, CONNECT TO SINK TAILPIECE. SEE DETAIL 04/P501.

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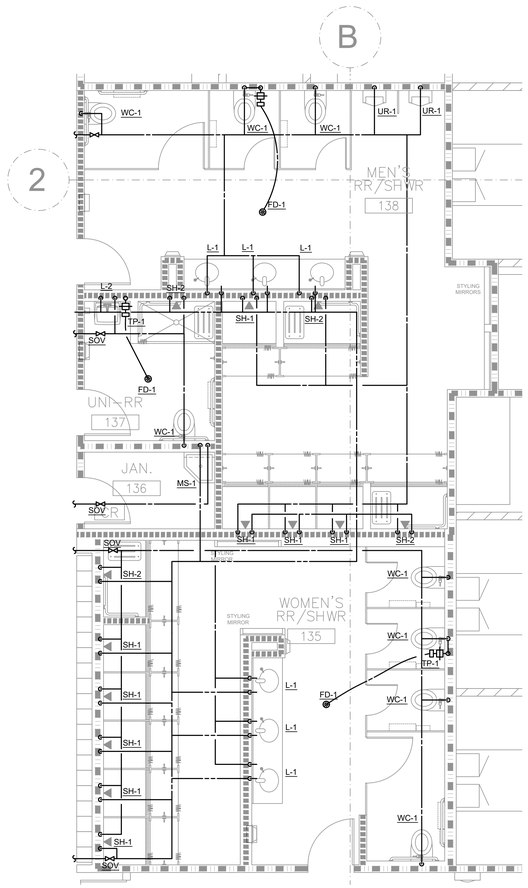
PLUMBING ENLARGED PLANS

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

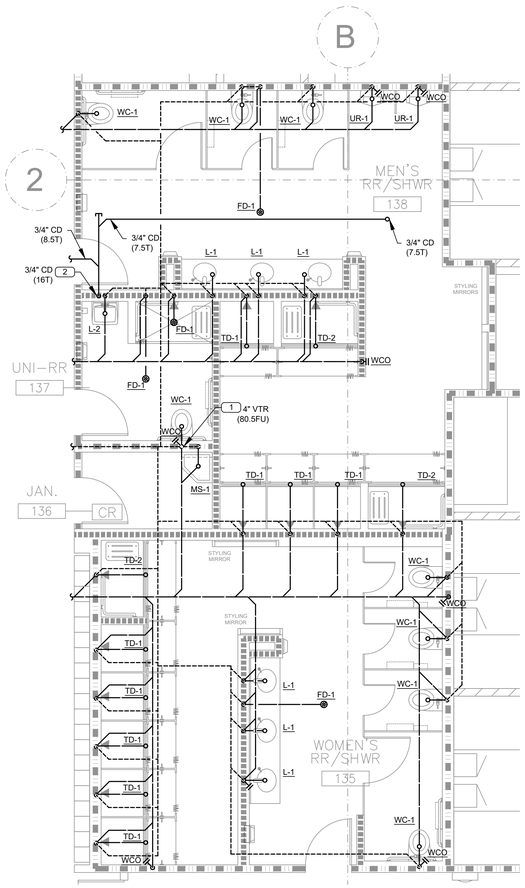
Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P401



PLUMBING ENLARGED SERVICE PLAN | 1/4" = 1'-0" | 02



PLUMBING ENLARGED DRAINAGE PLAN | 1/4" = 1'-0" | 01

GENERAL NOTES

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2

KEY NOTES (X)

1. 4" VENT UP.
2. 3/4" CONDENSATE DRAIN DOWN, CONNECT TO SINK TAILPIECE. SEE DETAIL 04/P501.

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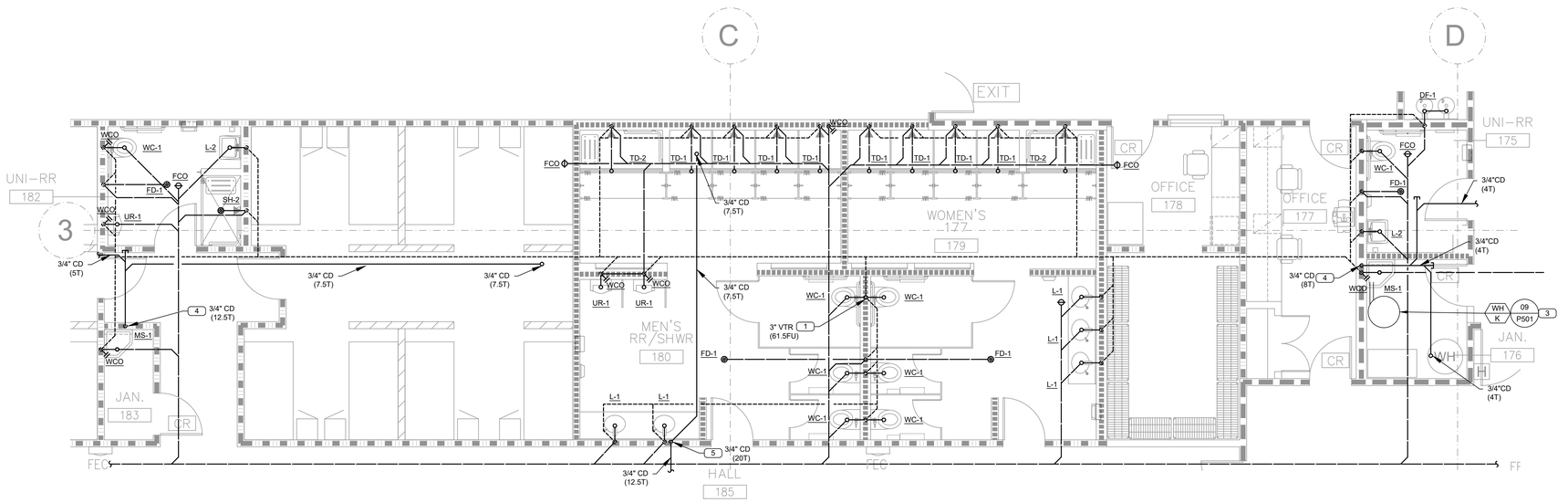
PLUMBING
ENLARGED PLANS

Revisions	By	Date
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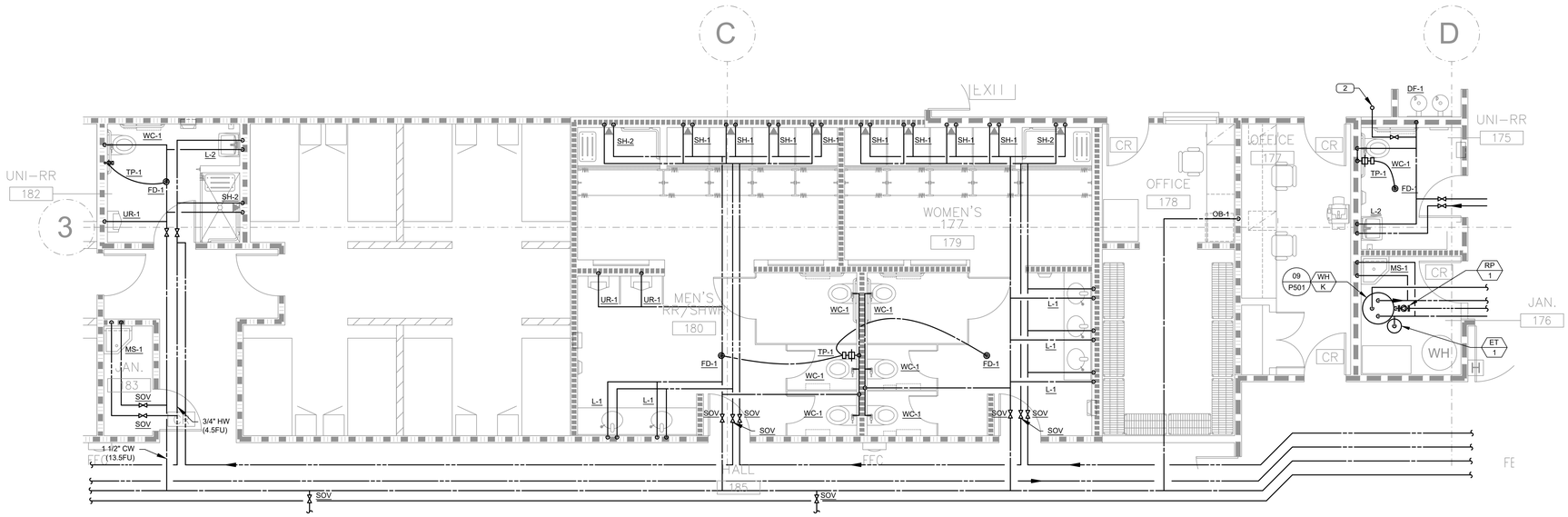
Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P402



PLUMBING ENLARGED DRAINAGE PLAN | 1/4" = 1'-0" | 01



PLUMBING ENLARGED SERVICE PLAN | 1/4" = 1'-0" | 02

GENERAL NOTES

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KEY NOTES (X)

1. 3" VENT UP.
2. 3/4" COLD WATER UP TO RH-1.
3. TERMINATE WATER HEATER DRAIN PAN AND T&P RELIEF VALVES AT MOP SINK WITH MINIMUM 1" AIR GAP.
4. 3/4" CONDENSATE DRAIN DOWN TO MOP SINK WITH MINIMUM 1" AIR GAP.
5. 3/4" CONDENSATE DRAIN DOWN, CONNECT TO SINK TAILPIECE. SEE DETAIL 04/P501.

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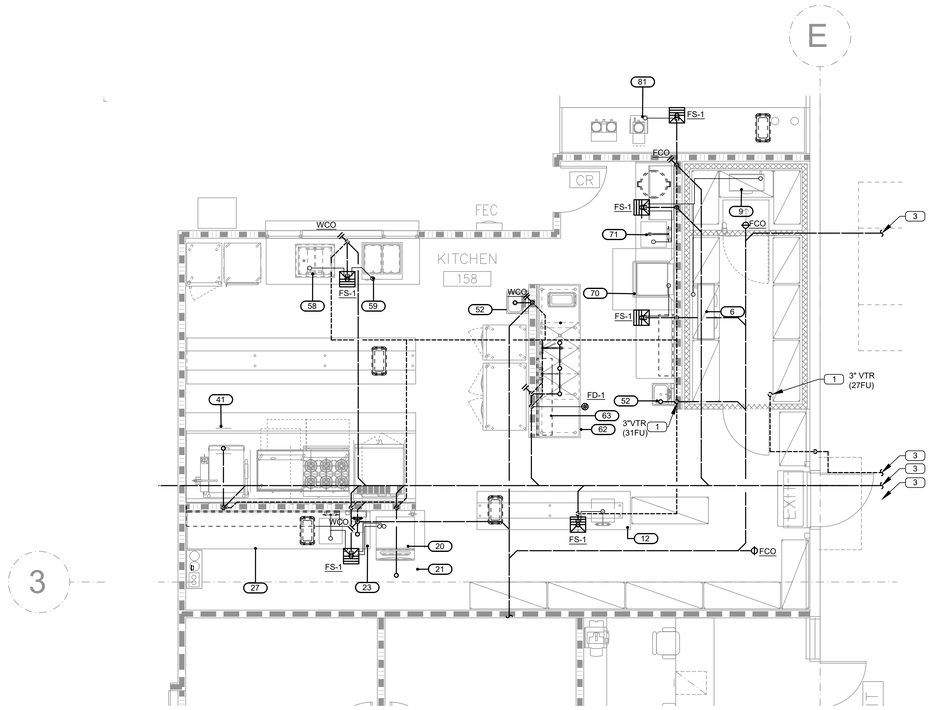
PLUMBING ENLARGED PLANS

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

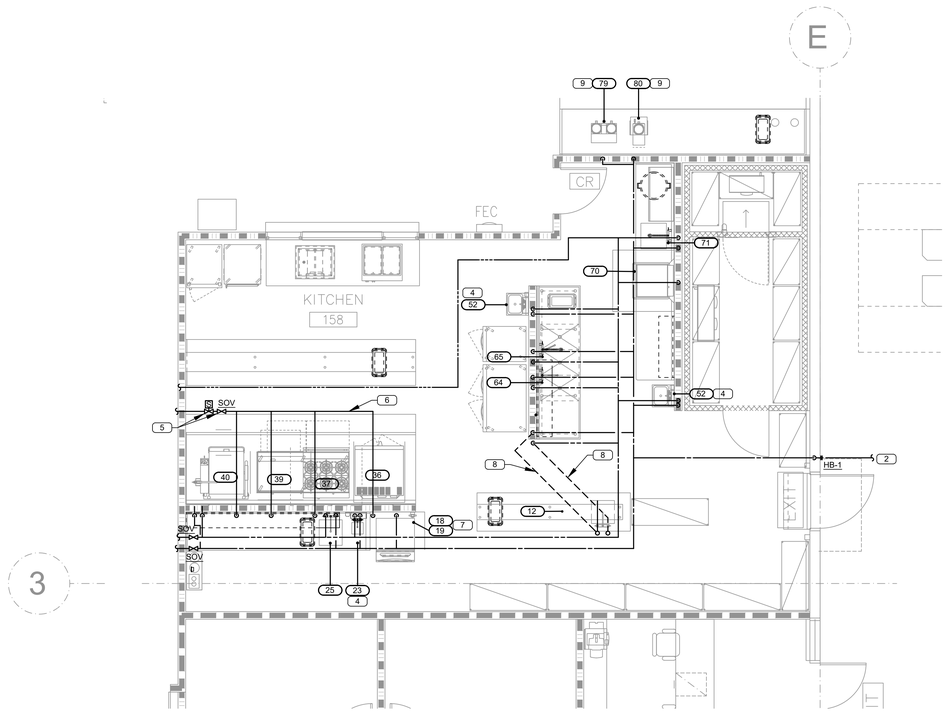
Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P403



PLUMBING ENLARGED DRAINAGE PLAN | 1/4" = 1'-0" | 01



PLUMBING ENLARGED SERVICE PLAN | 1/4" = 1'-0" | 02

GENERAL NOTES

1. NOTIFY AND OBTAIN LANDLORD'S REPRESENTATIVE APPROVAL OF SCHEDULED DOWN TIME DURATIONS THAT WOULD AFFECT OTHER PARTS OF BUILDING OPERATION NOT IN SCOPE OF WORK PRIOR TO COMMENCING THE WORK.
2. PIPING SHALL BE IDENTIFIED WITH A SERVICE MARKING WITH INDICATED AIRFLOW/ WATER FLOW DIRECTION OF THE SERVICE.
3. PLUMBING VENTS SHALL MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ALL AIR INTAKES. REFER TO MECHANICAL DRAWINGS FOR INTAKE LOCATIONS.
4. PROVIDE SHUT OFF VALVE FOR ALL CONNECTIONS AT PLUMBING FIXTURES.
5. INSULATION MATERIALS APPLIED TO PIPING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
6. REQUIRED OFFSETS, COMPONENTS, ACCESSORIES, AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED TO AVOID INTERFERENCES WITH UN-FORESEEN COMPONENTS.
7. PROVIDE DIELECTRIC UNIONS, GASKETS, AND FASTENERS AT DISSIMILAR METAL CONNECTIONS OF CONTACT POINTS.
8. TESTS SHALL BE COMPLETED BEFORE ANY PIPING INSULATION IS APPLIED.
9. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 8"X8" SIZE FOR VALVES, METERS, OR DEVICES REQUIRING MAINTENANCE. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
10. PROVIDE FIRESTOPPING FOR PIPE PENETRATIONS THROUGH RATED WALLS.
11. FIELD COORDINATE WITH THE STRUCTURAL CONTRACTOR THE EXACT LOCATION OF PIPING PENETRATIONS PRIOR TO ROUTING TO CONFIRM IT WILL NOT DISTURB EXISTING STRUCTURAL ELEMENTS.
12. FIELD VERIFY PRECISE PIPE ROUTING AND LOCATION OF ALL POC'S.
13. PATCH ANY CUT SLAB TO MATCH EXISTING
14. ALL SANITARY PIPING SHALL BE SLOPED AT 2% MINIMUM, UNLESS NOTED OTHERWISE.
15. PER CPC 309.5, THE PLUMBING PIPING SYSTEM WILL BE DESIGNED AND INSTALLED IN CONFORMANCE WITH SOUND LIMITATIONS AS REQUIRED IN CBC.
16. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1% MINIMUM. FIELD VERIFY EXACT PIPE ROUTING. INSTALL ALL CONDENSATE PIPING PER FAN COIL MANUFACTURER INSTALLATION INSTRUCTIONS.
17. ANTI-SCALDING SHOWER AND TUB-SHOWER COMBINATION VALVES ARE REQUIRED, SEE CPC SECTION 418.
18. THE FLOW RATES FOR ALL PLUMBING FIXTURES SHALL COMPLY WITH THE MAXIMUM FLOW RATES SPECIFIED IN CGBSC SECTION 5.303.3.
19. SANITARY AND DOMESTIC PIPING SHOWN DIAGRAMMATICALLY, FIELD VERIFY BEFORE INSTALLATION.
20. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO SECTION 609.10(1-3) OF THE 2025 CPC. CONTRACTOR SHALL PROVIDE A SIGNED DECLARATION TO THE INSPECTOR AT TIME OF INSPECTION THAT POTABLE WATER SYSTEM HAS BEEN DISINFECTED PER SECTION 609.10 OF THE 2025 CPC.

2

KEY NOTES (X)

1. 3" VENT UP.
2. 3/4" COLD WATER BELOW GRADE TO HOSE BIBBS. SEE P101 FOR CONTINUATION.
3. SEE SHEET P101 FOR CONTINUATION.
4. PROVIDE CHICAGO FAUCET 131-CABNF THERMOSTATIC MIXING VALVE, SET TO 104 DEG F.
5. INSTALL SOLENOID GAS VALVE AND SHUT OFF VALVE ON GAS SUPPLY TO KITCHEN EQUIPMENT. SIZE TO MATCH LINE SIZE. FIELD VERIFY PRECISE LOCATION. COORDINATE WITH FOOD SERVICE CONTRACTOR AND INTERCONNECT WITH EMERGENCY FIRE SUPPRESSION SYSTEM. IDENTIFY ON CEILING TILE LOCATION OF VALVES.
6. PROVIDE FULL SIZED GAS HEADER FOR KITCHEN EQUIPMENT.
7. SUPPLY LINE TO ROUTE TO WATER FILTER PRIOR TO ROUTING TO ICE MACHINE.
8. RUN COLD AND HOT WATER PIPING BELOW GROUND.
9. PROVIDE ASSE 1024 BACKFLOW PREVENTER ON SUPPLY LINE SERVING BEVERAGE MACHINE.

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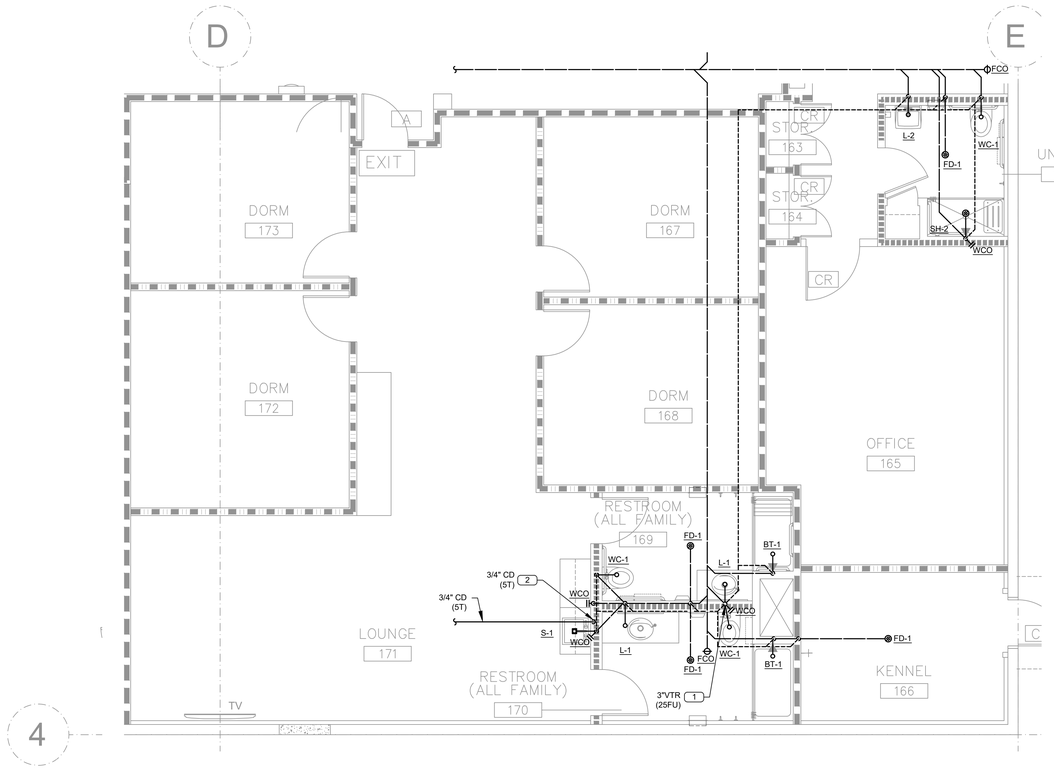
PLUMBING
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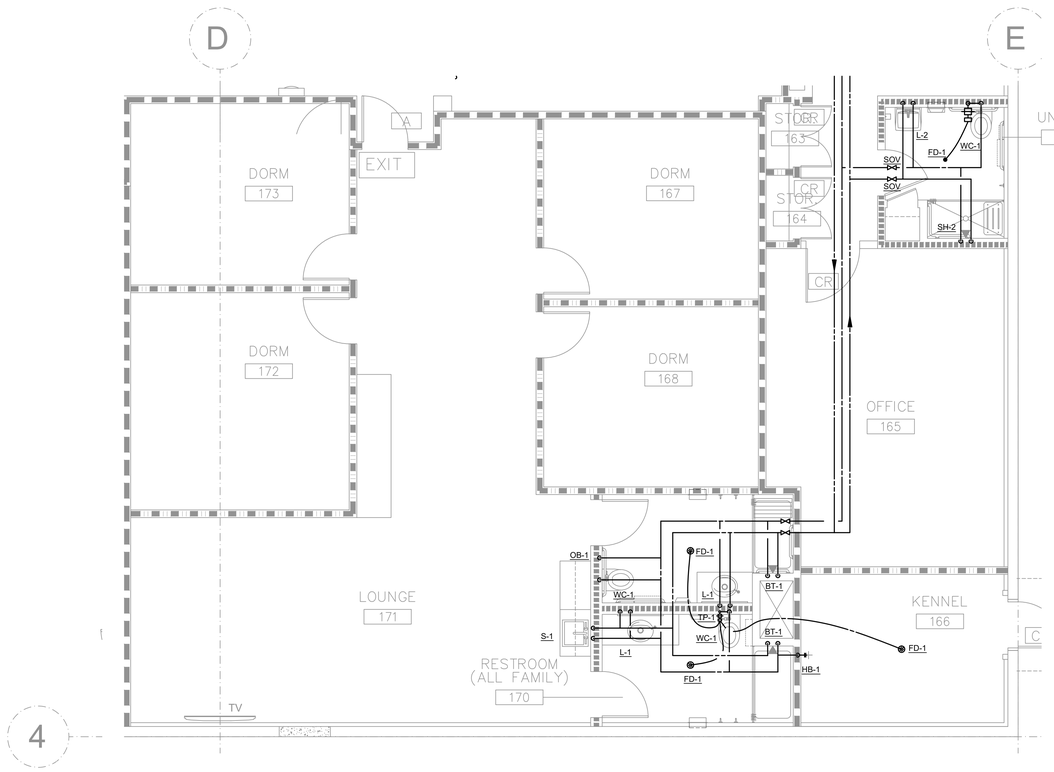


PLUMBING ENLARGED DRAINAGE PLAN | 1/4" = 1'-0" | 01

GENERAL NOTES

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2



PLUMBING ENLARGED SERVICE PLAN | 1/4" = 1'-0" | 02

KEY NOTES (X)

1. 3" VENT UP.
2. 3/4" CONDENSATE DRAIN DOWN, CONNECT TO SINK TAILPIECE. SEE DETAIL 04/P501.

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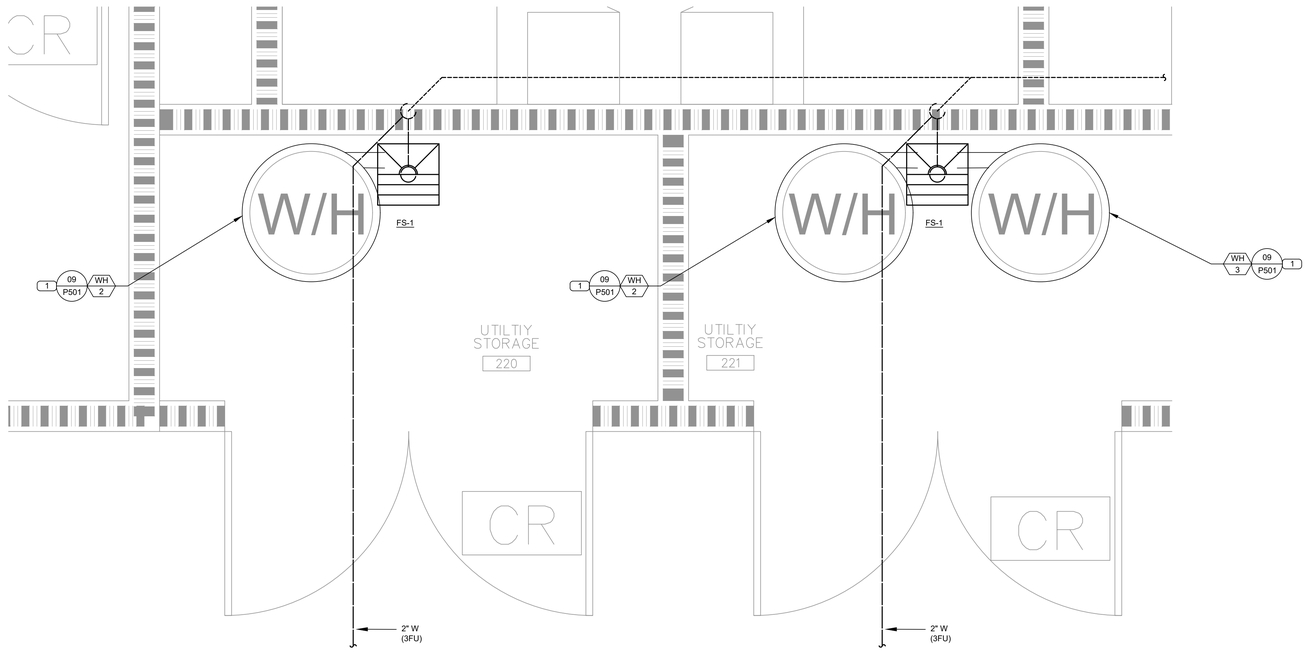
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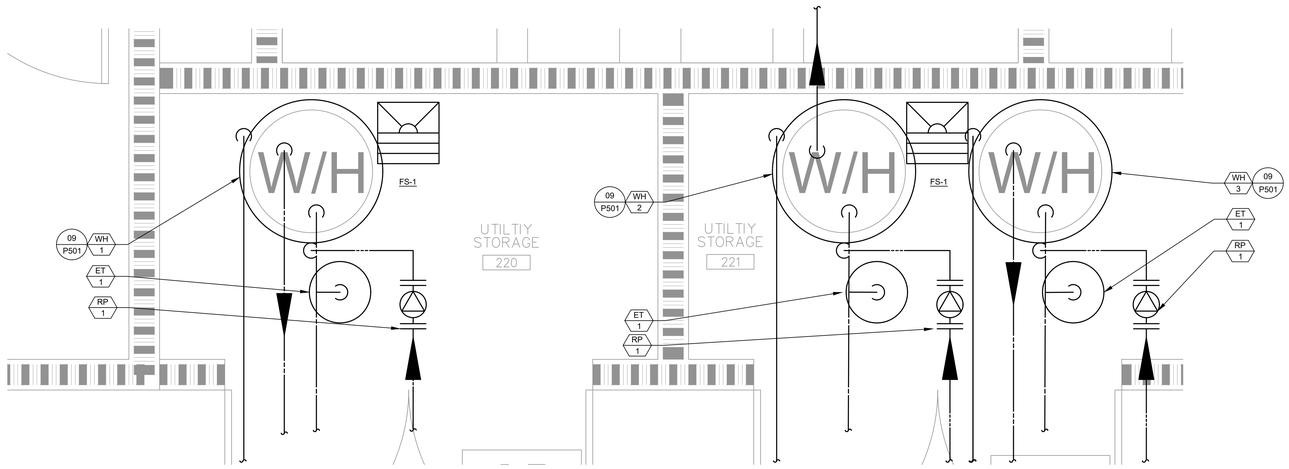
Drawn	LEi
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P405



PLUMBING ENLARGED DRAINAGE PLAN | 1" = 1'-0" | 01



PLUMBING ENLARGED SERVICE PLAN | 1" = 1'-0" | 02

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KEY NOTES (X)

1. TERMINATE WATER HEATER DRAIN PAN AND T&P RELIEF VALVES AT FLOOR SINK WITH MINIMUM 1" AIR GAP.

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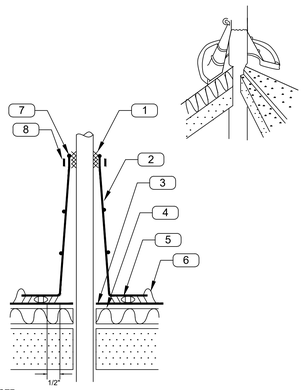
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P406

DETAILS 10

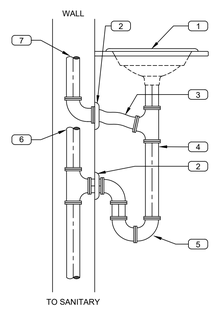


NOTE:
1. COORDINATE ALL FLASHING DETAILS THE ARCHITECTURAL DRAWINGS AND ROOFING SHOP DRAWING AND ROOFING SHOP DRAWING DETAILS.
2. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
3. APPLY IN-SEAM SEALANT 1/2 INCH FROM INSIDE EDGE OF PIPE SEAL FLANGE.

KEY NOTES:

1. SURE-SEAL WATER CUT-OFF MASTIC
2. SURE-SEAL/BRITE-PLY PRE-MOLDED PIPE SEAL
3. SURE-SEAL/BRITE -PLY EPDM MEMBRANE
4. SURE-SEAL INSULATION
5. SURE-SEAL IN-SEAM SEALANT (NOTE 3)
6. SURE-SEAL/BRITE-PLY LAB SEALANT
7. NOTE 2
8. STAINLESS STEEL CLAMPING RING

FLASHING DETAIL FOR PIPES 4" SMALLER THRU ROOF (N.T.S.) 07

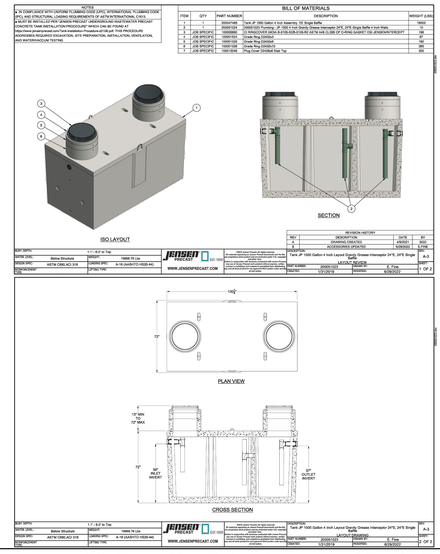


NOTE:
1. PIPE SIZES ARE AS NOTED ON THE PLANS

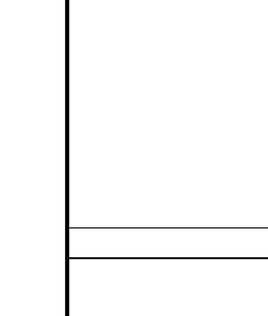
KEY NOTES:

1. LAVATORY
2. ESCUTCHEON
3. NEOPRENE HOSE AND CLAMPS
4. TAILPIECE
5. TRAP
6. TO VENT THROUGH ROOF
7. CONDENSATE PIPE FROM MECHANICAL UNITS

CONDENSATE TAILPIECE DETAIL (N.T.S.) 04



1,500 GALLON GREASE INTERCEPTOR 01



NOTE:
1. ALL ELECTRICAL BRANCH CIRCUIT & CONTROL WIRING IS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. PROVIDE SWITCHING RELAYS, WHERE REQUIRED AS FOLLOWS:
   a. 120V, 1Ø, 1/3 HP: USE HONEYWELL No. RA89A1074.
   b. 208/240V, 1Ø, UP TO AND INCLUDING 1/3 HP: USE HONEYWELL No. RA 832A1074.
   c. OVER 1/3 HP: PROVIDE FUSED DISCONNECT SWITCH TYPE .MOTOR STARTER W/ THERMAL OVERLOAD RELAY & FUSED, & CONTROL TRANSFORMER.
3. CIRCULATOR SHALL BE BRONZE BODY WITH BRASS IMPELLER AND BRONZE SLEEVE BEARINGS.
4. ALL PUMP MOTORS 1/3 HP AND SMALLER SHALL BE PROVIDED WITH INTERNAL THERMAL OVERLOAD PROTECTION.
5. INSTALL TIME CLOCK WHERE REQUIRED BY ENERGY CODE. TIME CLOCK SHALL BE 7DAY, 40 AMP RATED 1/3 HP AND LESS. DISCONNECT SWITCH NOT REQUIRED FOR MOTORS RATED OVER 1/3 HP (SEE NOTE 2c).
6. TIME CLOCK SHALL BE TORK #W100 FOR 120V INSTALLATIONS AND TORK #W302 FOR 208/240V INSTALLATIONS.
7. HOT WATER RETURN PIPING SHALL BE INSULATED PER TITLE 24 REQUIREMENTS. PROVIDE WITH ALUMINUM JACKET AT OUTDOOR LOCATIONS.
8. INSTALL AIR RELEASE VALVE PER SECTION 110.3.(c).4 A OF THE 2025 BUILDING ENERGY CODE.
9. INSTALL CHECK VALVE FOR BACKFLOW PREVENTION ON HOT WATER RETURN PER SECTION 110.3.(c).4 B OF THE 2025 BUILDING ENERGY CODE.
10. INSTALL CHECK VALVE FOR BACKFLOW PREVENTION ON THE COLD WATER SUPPLY LINE PER SECTION 110.3.(c).4 C &D. OF THE 2025 BUILDING ENERGY EFFICIENCY STANDARDS.
11. INSTALL CHECK VALVE FOR BACKFLOW PREVENTION ON THE COLD WATER SUPPLY LINE PER SECTION 110.3.(c).4 F OF THE 2025 BUILDING ENERGY EFFICIENCY STANDARDS.
12. INSTALL ISOLATION VALVES ON COLD WATER SUPPLY AND HOT WATER LEAVING WATER HEATER PER SECTION 110.3.(c).6 OF THE 2025 ENERGY CODE.
13. INSTALL HOSE BIBB ON EACH VALVE FOR FLUSHING WATER HEATER PER SECTION 110.3.(c).6 OF THE 2025 ENERGY CODE.

KEY NOTES:

1. PROVIDE 6" HIGH CONCRETE HOUSEKEEPING PAD 6" WIDER THAN WATER HEATER ON ALL SIDES OR APPROVED WATER HEATER STAND.
2. DRIP LEG.
3. ASME APPROVED T&P RELIEF VALVE AND DRAIN VALVE SHALL ROUTE TO CODE COMPLIANT TERMINATION WITH MINIMUM 1" AIR GAP.
4. CONCENTRIC VENT TERMINATION. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. REMOTE BULB STRAPPED TO RETURN LINE W/ INSULATION COVER.
6. AQUASTAT TEMP. CONTROLLER
7. DRAIN VALVE W/ HOSE THREAD AND VACUUM BREAKER.
8. AIR RELEASE VALVE. SEE NOTE #8.
9. CHECK VALVE. SEE NOTE #9.
10. ISOLATION VALVES. SEE NOTE #10.
11. CHECK VALVE. SEE NOTE #11.
12. ISOLATION VALVES. SEE NOTE #12.
13. HOSE BIBB. SEE NOTE #13.
14. FASTEN WATER HEATER TO WALL WITH TWO 1-1/2" GALVANIZED STRAPS POSITIONED 1/3 OF THE DISTANCE FROM THE TOP AND 1/3 OF THE DISTANCE FROM THE BOTTOM OF WATER HEATER.

WATER HEATER PIPING DETAIL, SINGLE GAS FIRED WITH RE-CIRCULATION LOOP, CONCENTRIC VENT(N.T.S.) 09

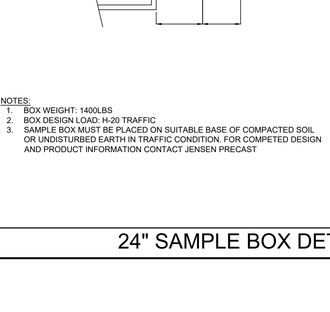
WATER HAMMER ARRESTOR SCHEDULE						
P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	1"	1"	1"	1"	1"

NOTE:
1. INSTALLATION SHALL COMPLY W/ P.D.I STANDARD WH201. UNITS NOT SIZED ON PLAN SHALL BE SIZED PER SCHEDULE ABOVE.

KEY NOTES:

1. WATER HAMMER ARRESTOR
2. THREADED END CONNECTION
3. FITTING ADAPTER
4. ISOLATION VALVE
5. ACCESS PANEL

WATER HAMMER ARRESTOR 05



KEY NOTES:

1. 24" CAST IRON FRAME & COVER WITH GASKET (GASTIGHT)
2. 2432-03 RISER - 3"
3. 2432-06 RISER - 6"
4. 2432-12 RISER - 12"
5. COMPACTED FILL OR UNDISTURBED EARTH

NOTES:
1. BOX WEIGHT: 1400LBS
2. BOX DESIGN LOAD: H-20 TRAFFIC
3. SAMPLE BOX MUST BE PLACED ON SUITABLE BASE OF COMPACTED SOIL OR UNDISTURBED EARTH IN TRAFFIC CONDITION. FOR COMPETED DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST

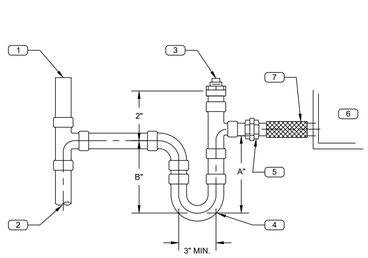
24" SAMPLE BOX DETAIL (N.T.S.) 02

NOTE:
1. ROUND SECURED GASKETED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.
2. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 100' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACK FILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

KEY NOTES:

1. FLOOR SLAB ON GRADE
2. SAME SIZE AS SEWER UP TO 4" MAXIMUM.
3. LONG SWEEP ELBOW AT END OR TURN OF RUN
4. COMBINATION WYE AND EIGHTH BEND IN RUN. ENTER TOP OF PIPE.
5. SANITARY OR STORM SEWER LINE
6. HUB AND SPIGOT CAST IRON PIPE BELOW FLOOR.
7. MEMBRANE CLAMP

FLOOR CLEANOUT DETAIL (N.T.S.) 06



TONS	DRAIN SIZE
UP TO 20	3/4"
21-40	1"
41-90	1 1/4"
91-125	1 1/2"

UNIT TYPE	"A"	"B"
DRAW THRU	S.P. x 1.5 + 2"	S.P. x 0.5 + 1"
BLOW THRU	S.P. x 1.5 + 2"	S.P. x 1.5 + 2"

NOTE:
1. ALL INTERIOR CONDENSATE DRAINS ABOVE CEILING SHALL BE INSULATED.
2. IF HORIZONTAL RUN IS GREATER THAN 15 FT. INSTALL VENT, SAME SIZE AS DRAIN.

KEY NOTES:

1. VENT SAME SIZE AS DRAIN
2. SEE PLANS FOR CONTINUATION
3. CLEANOUT PLUG (THREADED)
4. TYPE "M" COPPER TUBING WITH WROUGHT COPPER FITTING
5. DIELECTRIC UNION
6. HVAC EQUIPMENT
7. FLEXIBLE CONNECTION

CONDENSATE DRAIN DETAIL (N.T.S.) 03

BORDERS ARCHITECTS
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STAMP

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EXP. 12/31/27

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PROJECT

WESTEND NAVIGATION CENTER

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FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

PLUMBING DETAILS

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

P501

G. RATED ROOFING MATERIAL (COOL ROOF)

R-38 Roof No Attic	Roof	Altered	Nonresidential	Low slope	To Be Determined	Aged solar reflectance and thermal emittance	Reflectance	0.63	Reflectance[3]	0.63	
							Emittance	0.75	Emittance	0.85	
							SRI		SRI		
R-38 Roof No Attic	Roof	Altered	Hotel/Motel	Low slope	To Be Determined	Aged solar reflectance and thermal emittance	Reflectance	0.55	Reflectance[3]	0.63	
							Emittance	0.75	Emittance	0.85	
							SRI		SRI		

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)/ §170.2(a) for new constructions, §141.0(a)/ §180.1 for additions and §141.0(b)1B/ §180.2 for alterations.

01 Indicate wall types included in the project: [1] ☐ Framed ☒ Mass (new only) ☐ Concrete Sandwich Panel (new only) ☐ SIPS ☐ ICF (new only) ☐ Metal Panels ☐ Metal Building ☐ Spanrel/ Curtain Wall ☐ Straw Bale ☐ Log Home (new only)

[1] *FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

Mass Walls (new walls only)

01 ☒ Calculate Area-Weighted Average U-factor for Mass Walls [1]

02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information			Additional Insulation Information		Maximum U-factor Allowed[2]	U-factor per Design		Net Area [3] ft²
			Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness	Cavity Insulation per Design				
W WALL	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.138	per JA4 per Software/ Other	0.137	396

Generated Date/Time: Documentation Software: EnergyPro

F. ROOF ASSEMBLY SCHEDULE

07	08	09	10	11	12	13	14	15		16
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design [2]	Continuous Insulation per Design [2]	Thermal Performance Unit	Required Thermal Performance [3]	U-factor per Design		Net Area [4] ft²
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	61
17	Location in Construction Documents Showing Air Barrier			A-Sheets						

[1] *FOOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other roof types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C.*
[2] *For alterations using U-factor as the Thermal Performance Unit, at least R-10 insulation must be above deck.*
[3] *If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C.*
[4] *Roof area minus any fenestration/ skylight area*

Area-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs

01	02	03		04	05
Roof Type	Total Area of Roof Type (ft²)	Area-weighted U-factor for Roof Type			Compliance Results Using Area-Weighted Calculation Option
		Required		Designed	
Framed	25871	0.028		0.028	
Total for all Roof Types:	**25871**	**0.028**		**0.028**	**COMPLIES**

G. RATED ROOFING MATERIAL (COOL ROOF)

This table demonstrates compliance with prescriptive roof material requirements in §140.3(a)1A/ §170.2(a)1A for new construction, §141.0(a)/ §180.1 for additions, and §141.0(b)2B/ §180.2 for alterations. Roof recovers and replacements must also document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

01	02	03	04	05	06	07	08	09	10
Tag/Plan Detail ID	Name/ Description/ Location	Status	Occupancy Type	Roof Slope	Roof Material	Compliance Method	Required Minimum Material Performance	Designed Material Performance	U-factor / R-value of Assembly

F. ROOF ASSEMBLY SCHEDULE

07	08	09	10	11	12	13	14	15		16
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design [2]	Continuous Insulation per Design [2]	Thermal Performance Unit	Required Thermal Performance [3]	U-factor per Design		Net Area [4] ft²
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	435
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	750
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	26
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	26
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	308
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	527
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	784
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	60

F. ROOF ASSEMBLY SCHEDULE

07	08	09	10	11	12	13	14	15		16
Tag/Plan Detail ID	How Design U-factor was determined	Roof Type & Frame Material	Frame Spacing Depth	Cavity Insulation per Design [2]	Continuous Insulation per Design [2]	Thermal Performance Unit	Required Thermal Performance [3]	U-factor per Design		Net Area [4] ft²
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	28
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	43
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	237
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	591
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	611
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	579
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	77
Roof	JA4 Tables	Wood		38	0	U-factor	0.028	per JA4 per Software/ Other	0.028	543

H. WALL ASSEMBLY SCHEDULE

02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information			Additional Insulation Information		Maximum U-factor Allowed[2]	U-factor per Design		Net Area [3] ft²
			Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness	Cavity Insulation per Design				
W WALL	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.138	per JA4 per Software/ Other	0.137	182
S WALL	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.138	per JA4 per Software/ Other	0.137	1139
W WALL	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.138	per JA4 per Software/ Other	0.137	224
W WALL	Hotel/ Motel	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.17	per JA4 per Software/ Other	0.137	314
W WALL	Hotel/ Motel	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.17	per JA4 per Software/ Other	0.137	314
W WALL	Hotel/ Motel	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.17	per JA4 per Software/ Other	0.137	314

Generated Date/Time: Documentation Software: EnergyPro

H. WALL ASSEMBLY SCHEDULE

02	03	04	05	06	07	08	09	10	11		12
Tag/Plan Detail ID	Occupancy Type	How Design U-factor was determined	Mass Information			Additional Insulation Information		Maximum U-factor Allowed[2]	U-factor per Design		Net Area [3] ft²
			Mass Material	Fill Options	Thickness (in)	Frame Material & Thickness	Cavity Insulation per Design				
S WALL	Nonresidential/ Relocatable 1 CZ	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.138	per JA4 per Software/ Other	0.137	470
W WALL	Hotel/ Motel	JA4 Tables	Concrete	Solid Unit	6 in	Metal- 4.5 in	19	0.17	per JA4 per Software/ Other	0.137	314

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 § 120.2(e)3B § 140.4(g) and § 140.4(g) for all nonresidential and hotel/motel and d-t24ref4nlnlv2/160.2, §160.3(a)3D, §170.2(d)4N; 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05			06			07	
System Name	FC-1	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
ELEC ROOM	All others	58			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name	FC-2	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

I. SYSTEM CONTROLS

RTU-14	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-15	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-16	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-17	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-18	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	NA: Single Zone	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

I. SYSTEM CONTROLS

RTU-9	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-10	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-11	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-12	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-13	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units

I. SYSTEM CONTROLS

RTU-4	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-5	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-6	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-7	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units
RTU-8	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per §110.12	Supply air reset configured per Guideline 36	NA: No operable windows	NA: Single Zone		NA Heat Pump not serving dwelling units

J. VENTILATION AND INDOOR AIR QUALITY

RESTROOM	Toilet, private	166			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
LOUNGE	Main Entry Lobby	697			345	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				450	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-3	System Design OA CFM Airflow[1]		304	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
OFFICE	Office space	522			78.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
LOBBY	Main Entry Lobby	266			131.7	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

04		05			06			07	
System Name	RTU-1	System Design OA CFM Airflow[1]		583	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
DORMS	Bedroom/living room (hotel/motel/dorm)	3889			583.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				583	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-2	System Design OA CFM Airflow[1]		450	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
DORMS	Bedroom/living room (hotel/motel/dorm)	701			105.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
ELEC ROOM	All others	50			7.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				8	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	DOAS-1	System Design OA CFM Airflow[1]		2400	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
DINING AREA	Cafeteria/ fastfood dining	1785			883.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
KITCHEN	Kitchen (cooking)	1063			159.4	744.1	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				1043	18	Ventilation for this System Complies?		Yes

J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
ELEC ROOM	All others	113			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	FC-3	System Design OA CFM Airflow[1]		0	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
ELEC ROOM	All others	55			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				0	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	FC-4	System Design OA CFM Airflow[1]		7	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	

J. VENTILATION AND INDOOR AIR QUALITY

STORAGE	All others	32			4.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
HALLWAY	Corridor	832			124.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				268	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-7	System Design OA CFM Airflow[1]		276	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
DORMS	Bedroom/living room (hotel/motel/dorm)	1469			220.3	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
STORAGE	All others	90			13.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

DORMS	Bedroom/living room (hotel/motel/dorm)	1773			266	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
RESTROOM	Toilet, private	465			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
HALLWAY	Corridor	684			102.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				369	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-6	System Design OA CFM Airflow[1]		268	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
DORMS	Bedroom/living room (hotel/motel/dorm)	924			138.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

RESTROOM	Toilet, private	859			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
DORMS	Bedroom/living room (hotel/motel/dorm)	1043			156.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
STORAGE	All others	27			4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
HALLWAY	Corridor	985			147.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				359	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-5	System Design OA CFM Airflow[1]		369	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
OFFICE	Office space	76			11.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

RESTROOM	Toilet, private	67			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
STORAGE	All others	144			21.6	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
HALLWAY	Corridor	483			72.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				304	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-4	System Design OA CFM Airflow[1]		359	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
OFFICE	Office space	339			50.8	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

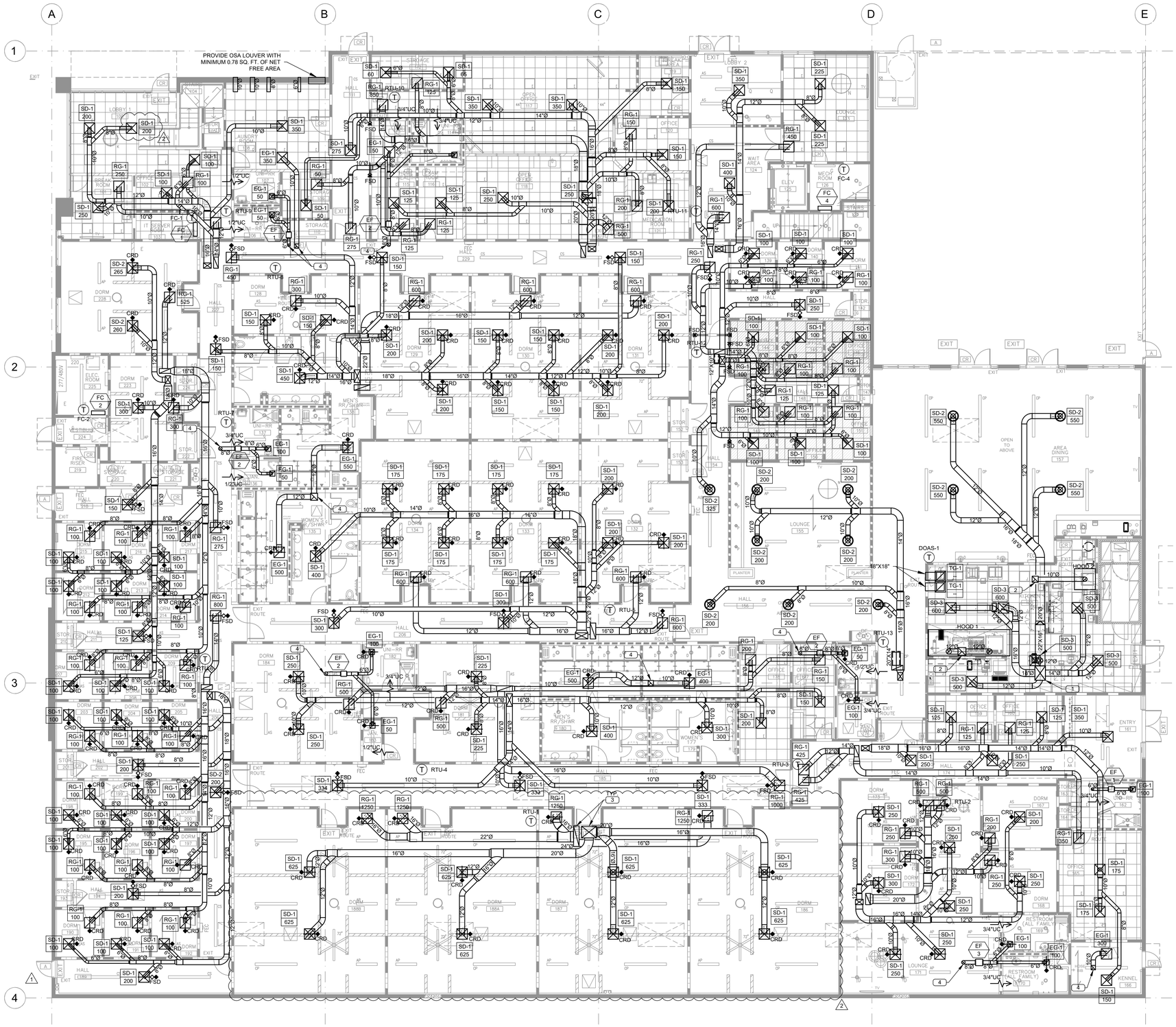
J. VENTILATION AND INDOOR AIR QUALITY

HALLWAY	Corridor	283			42.4	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				276	18	Ventilation for this System Complies?		Yes

04		05			06			07	
System Name	RTU-8	System Design OA CFM Airflow[1]		497	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]	
								Provided	
08	09	10	11	12	13	14	15	16	
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3						Exh. Vent per §120.1(c)4 & §160.2(c)4	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
STORAGE	All others	130			19.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
DORMS	Bedroom/living room (hotel/motel/dorm)	1998			299.7	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type
RESTROOM	Toilet, private	620			0	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	NA: Not required space type

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GENERAL NOTES

1. NOTIFY AND OBTAIN LANDLORD'S REPRESENTATIVE APPROVAL OF SCHEDULED DOWN TIME DURATIONS THAT WOULD AFFECT OTHER PARTS OF BUILDING OPERATION NOT IN SCOPE OF WORK PRIOR TO COMMENCING THE WORK.
2. TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS COLLECTED IN MECHANICAL EQUIPMENT AND DUCTS, ALL DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION EQUIPMENT COMPONENT OPENINGS SHALL BE COVERED FROM THE TIME OF DELIVERY AT THE JOBSITE THROUGHOUT CONSTRUCTION UNTIL FINAL START UP.
3. DUCTWORK AND PIPING SHALL BE IDENTIFIED WITH A SERVICE MARKING WITH INDICATED AIRFLOW/ WATER FLOW DIRECTION OF THE SERVICE.
4. DUCT SIZE INDICATED ARE THE "FREE-AREA" INSIDE DIMENSIONS OF THE DUCT.
5. RECTANGULAR CAN BE SUBSTITUTED WITH ROUND DUCTS AS LONG AS IT MEETS OR EXCEEDS THE CROSS-SECTIONAL FREE AREA AND IS ABLE TO FIT IN THE IDENTIFIED SPACE.
6. MAINTAIN 3'-0" DISTANCE FROM ENVIRONMENTAL EXHAUST OUTLETS (AS DEFINED IN CMC 502.2.1) TO BUILDING OPENINGS AND 10'-0" DISTANCE TO MECHANICALLY FORCED AIR INLETS.
7. LABEL TEMPERATURE SENSORS AS TO THE UNIT THEY ARE SERVING.
8. INSULATION MATERIALS APPLIED TO DUCTWORK SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DENSITY NOT EXCEEDING 50.
9. REQUIRED OFFSETS, COMPONENTS, ACCESSORIES, AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED TO AVOID INTERFERENCES WITH UN-FORESEEN COMPONENTS.
10. PROVIDE DIELECTRIC UNIONS, GASKETS, AND FASTENERS AT DISSIMILAR METAL CONNECTIONS OF CONTACT POINTS.
11. FLEXIBLE DUCT CONNECTION TO AIR DIFFUSERS CONVEYING CONDITIONED AIR SHALL BE A MAXIMUM OF 5'-0".
12. PROVIDE COMPLETE AIR BALANCE FOR ALL MECHANICAL SYSTEMS IDENTIFIED IN THE SCOPE OF WORK. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT THIRD PART AND MEMBER OF "AABC" OR THE "NEBB". MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TOOLS AS REQUIRED TO COMPLETE THE BALANCING OF THE SYSTEM.
13. DUCT SYSTEM SHALL BE SEALED TO A LEAKAGE RATE NOT TO EXCEED 6% OF NOMINAL AIR HANDLING AIRFLOW RATE. CONFIRM THROUGH FIELD VERIFICATION AND DIAGNOSTIC TESTING.
14. REFER TO THE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPE ROUTING.
15. COORDINATE WITH STRUCTURAL ON ANY NEW SUPPORTS, EXISTING FIRE PROTECTION, ETC. PRIOR TO LAYING OUT DUCTWORK.
16. THERE SHALL BE A CLEAR RETURN PATH BACK TO THE HVAC UNIT IN THE PLENUM SPACE. REPORT ANY OBSTRUCTIONS SUCH AS FULL HEIGHT WALLS NOT SHOWN ON THE DRAWINGS TO THE ARCHITECT.
17. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE AREAS (RATED OR NON-RATED) MINIMUM 12"X12" SIZE FOR COMBINATION FIRE/SMOKE DAMPERS. INSTALL LARGER ACCESS PANELS FOR LARGER EQUIPMENT AS REQUIRED BY CODE. COORDINATE WITH ARCHITECT FOR APPROVAL OF FINAL LOCATIONS PRIOR TO INSTALLATION.
18. PROVIDE FIRESTOPPING FOR PIPE AND PASS-THROUGH DUCT PENETRATIONS THROUGH RATED WALLS. DUCTWORK SHALL BE A MINIMUM 26 GA SHEET METAL. SEE ARCHITECTURAL PLANS FOR FIRE STOP DETAILS.
19. FIELD COORDINATE WITH THE STRUCTURAL CONTRACTOR THE EXACT LOCATION OF DUCT AND PIPING PENETRATIONS PRIOR TO ROUTING TO CONFIRM IT WILL NOT DISTURB EXISTING STRUCTURAL ELEMENTS.
20. IDENTIFY AND RE-SUPPORT EXISTING DUCTWORK, DEVICES, AND APPURTENANCES IF IT INTRUDES AT LOCATIONS OF PROPOSED HIGHER CEILING HEIGHTS.

KEY NOTES (X)

1. DOAS UNIT SUPPLY AIR DUCT DROP DOWN FROM FLOOR ABOVE. SEE DRAWING M202 FOR CONTINUATION.
2. KITCHEN EXHAUST DUCT DROP DOWN FROM FLOOR ABOVE. SEE DRAWING M202 FOR CONTINUATION.
3. SUPPLY AND RETURN DUCT DROPS DOWN FROM FLOOR ABOVE. SEE DRAWING M202 FOR CONTINUATION.
4. GENERAL EXHAUST DUCT DROP DOWN FROM FLOOR ABOVE. SEE DRAWING M202 FOR CONTINUATION.

1ST FLOOR MECHANICAL PLAN | 1/8" = 1'-0" | 01

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FOR

FONTANA CALIFORNIA

TITLE

1ST FLOOR MECHANICAL PLAN

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

M201

ELECTRICAL GENERAL NOTES

1. THE LATEST ADDITION OF THE OWNER'S AND/OR ARCHITECT'S GENERAL, SPECIAL AND SUPPLEMENTARY CONDITIONS AS WELL AS SEPARATE SPECIFICATIONS OR PROJECT MANUALS ARE COMPLIMENTARY TO THESE CONSTRUCTION DRAWINGS AND INCLUDED AS CONSTRUCTION DOCUMENTS.
2. FOLLOW APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS & STANDARDS AS WELL AS INDUSTRY RECOGNIZED ASSOCIATION STANDARDS. USE GOOD COMMERCIAL CONSTRUCTION PRACTICES AND STANDARD OF CARE.
3. THE SCOPE OF WORK INCLUDES PROVIDING LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS INDICATED AND SPECIFIED.
4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW OFFSETS, BENDS, ELBOWS, JUNCTION BOXES OR OTHER SPECIFIC ELEMENTS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF WORK. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE BUT MAY BE DISTORTED FOR CLARITY OF THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT MAY BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE. IT IS NOT WITHIN THE SCOPE OF THESE DRAWINGS TO SHOW NECESSARY BENDS, OFFSETS, JUNCTION & PULL BOXES, AND OBSTRUCTIONS. PROVIDE AN INSTALLATION THAT MAINTAINS HEADROOM AND KEEPS OPENINGS AND PASSAGEWAYS CLEAR.
   a. INSTALL JUNCTION AND PULL BOXES WHERE ACCESSIBLE ABOVE MAIN PATHS OF TRAVEL WHEN POSSIBLE, AND IN LOCATIONS WHERE MINIMAL DISRUPTION WOULD OCCUR SHOULD SERVICING BE REQUIRED.
   b. THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS, CONDUIT, EQUIPMENT, APPARATUS, ETC. TO A REASONABLE EXTENT AS THE BUILDING CONDITIONS MAY DICTATE PRIOR TO THEIR INSTALLATION WITHOUT EXTRA COST TO THE OWNER. THE EXACT LOCATION AND ARRANGEMENT OF EQUIPMENT AND DEVICES TO BE DETERMINED AS THE WORK PROGRESSES.
5. CONTRACTOR TO EXAMINE THE SITE TO DETERMINE THE EXACT CONDITIONS AFFECTIN THE ELECTRICAL WORK.
6. INCONSISTENCY OR DISCREPANCY IN THE DRAWINGS OR SPECIFICATIONS ARE TO BE CLEARED WITH THE ENGINEER PRIOR TO ROUGH IN OR INSTALLATION. BY SECURING THE PERMIT, IT IS UNDERSTOOD THAT THE CONTRACTOR HAS READ AND FULLY UNDERSTANDS THE DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS FOR THIS PROJECT PRIOR TO THE COMMENCEMENT OF WORK. INCLUDING DOCUMENTS OF OTHER DIVISIONS WHICH MAY INTERFERE OR OTHERWISE AFFECT THE WORK OF THIS DIVISION. NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THIS DIVISION WITH THOSE DOCUMENTS.
7. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, CONSTRUCTED WITH NEW AND HIGH QUALITY MATERIALS AND EQUIPMENT, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION.
8. WORK SHALL BE COMPLETED WITH A MINIMUM OF DUST AND DIRT ACCUMULATION. PROVIDE SUFFICIENT FIREPROOF TARPAULINS AND COVER EQUIPMENT IN WORK AREA.
9. CONTRACTOR FILES, SECURES AND PAYS FOR ANY NECESSARY APPROVALS, PERMITS, LICENSES AND INSPECTIONS WHICH ARE REQUIRED BY ANY LEGALLY CONSTITUTED AUTHORITY.
10. CAREFULLY LAY OUT WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES.
11. PROVIDE SCREENING SO THAT MATERIALS STORED IN OUTDOOR STORAGE AREAS AND/OR EQUIPMENT AT GRADE OR ON THE ROOF, ARE SCREENED FROM VIEW FROM ADJACENT STREETS NO MATTER THE STREET GRADE, AS WELL AS PROPERTIES AT THE SAME GRADE.
12. CONTRACTOR FURNISHES SHOP DRAWINGS AND EQUIPMENT CUT SHEETS FOR REVIEW AND COMMENTS PRIOR TO ORDERING AND SHIPPING OF SUCH EQUIPMENT. SUBSTITUTIONS MUST BE IN SUBMITTAL FORM WITHOUT EXCEPTION. SUBSTITUTIONS SHALL ALSO BE APPROVED BY THE OWNER AND/OR LANDLORD.
13. THE ENGINEER'S REVIEW AND COMMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATION TO COMPLY WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS.
14. DEFINITIONS:
   a. "DEMOLISH": SAFE-OFF UTILITIES DISCONNECT, REMOVE, AND DISPOSE OF PER LOCAL JURISDICTIONAL REQUIREMENTS, UNLESS NOTED OTHERWISE.
   b. "FURNISH": SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
   c. "INSTALL": OPERATIONS AT PROJECT SITE INCLUDING UNLOADING, TEMPORARILY STORING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.
   d. "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
   e. "WIRING": INCLUDES PROVIDING CONDUIT, WIRE, JUNCTION BOXES, STARTERS, DISCONNECTS AND SUPPORTS FOR 120V POWER TO CONTROL SYSTEMS, SWITCHES, VALVES, STATS, RELAYS, DUCT SMOKE DETECTORS ETC, AND MAKING CONNECTIONS TO THE EQUIPMENT.
15. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATIONS, DIMENSIONS, AND/OR RATINGS OF FIRE RATED SEPARATIONS, EXPANSION JOINTS, AND SEISMIC JOINTS. WHEN CROSSING THESE AREAS, PROVIDE FOR MAXIMUM MOVEMENT EQUAL THE GAP WIDTH IN BOTH PERPENDICULAR DIRECTIONS.
16. COORDINATE SLEEVES AND PENETRATIONS REQUIRED THROUGH FOUNDATION WALLS AND CONCRETE FLOORS WITH ARCHITECTURAL DRAWINGS.
17. PROVIDE ACCESS PANELS FOR CODE REQUIRED ACCESS IN HARD CEILING AREAS. VERIFY LOCATIONS OF FIRE RATED CEILINGS WITH ARCHITECURAL PLANS.
18. COMBINING CURRENT-CARRYING CONDUCTORS IN ONE CONDUIT (FOR POWER WIRING ONLY).
   a. IF CONTRACTOR ELECTS TO COMBINE BRANCH CIRCUITS, CONTRACTORS MUST COMPLETE THE CALCULATIONS FOR CODE ADJUSTMENT FACTOR(S) TO BE APPLIED.
   b. PROVIDE CIRCUIT BREAKER HANDLE TIES FOR MULTI-WIRE BRANCH CIRCUITS CREATED BY COMBINING CURRENT-CARRYING CONDUCTORS.
19. FOR EQUIPMENT NOT SHOWN WITH HOME RUNS, PROVIDE FEEDER AND BRANCH CIRCUITING SHOWN IN THE RELATED EQUIPMENT SCHEDULE WHERE DISCONNECTING MEANS AND BRANCH CIRCUITING IS IDENTIFIED.
20. PROVIDE UTILITY COMPANY INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO TRANSFORMER PADS AND BOXES, CONDUITS, DUCT BANKS, PULL BOXES, VAULTS, MANHOLES, POWER POLE RISERS, CONDUCTORS, ETC., FOR TERMINATION OF SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS, AND AS SHOWN ON FINAL APPROVED UTILITY CONSTRUCTION DRAWINGS.
   a. PROVIDE 2" MINIMUM UNDERGROUND RACEWAY(S) FOR INCOMING TELEPHONE SERVICE RACEWAYS, UNLESS OTHERWISE LISTED.
21. PRIOR TO PLANNING EXCAVATION WORK, RETAIN THE SERVICES OF AN INDEPENDENT ELECTRONIC LOCATOR SERVICE TO PROVIDE THE EXACT LOCATION OF UNDERGROUND UTILITY SERVICES AND VERIFY POSSIBLE CONFLICTS WITH THAT WHICH IS INDICATED ON THE SITE OR OTHER UTILITY DRAWINGS. REPORT CONFLICTS TO THE OWNER AND ARCHITECT WITHIN 5 DAYS OF THE COMPLETION OF THE SURVEY.
22. PROVIDE PENETRATIONS THROUGH MANHOLES, HANDHOLES, FOUNDATIONS, ETC. USING HOT-DIPPED GALVANIZED, RIGID STEEL (GRS) CONDUIT. MAKE TRANSITION FROM RIGID NON-METALLIC TO GRS AT 5'-0" FROM PENETRATION USING APPROVED TRANSITION COUPLING. PROVIDE 3" CONCRETE ENVELOPE AROUND TRANSITION COUPLING EXTENDING 3'-0" IN EITHER DIRECTION TO MINIMIZE SHEAR FORCES AT TRANSITION COUPLING.
23. RISERS AT UTILITY POLES CONSISTS OF GRS ELBOW(S) AND CONDUIT TO 10'-0" ABOVE FINISHED GRADE. CAP SPARE ELECTRICAL CONDUITS AT 6" ABOVE FINISHED GRADE.
24. PROVIDE WIRING FOR EQUIPMENT FURNISHED BY OTHER DIVISIONS SHOWN IN THESE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.
   a. CONTROL SYSTEM AND SIGNAL SYSTEM WIRING TO BE RUN IN SEPARATE CONDUITS FROM ANOTHER, AND NOT WITHIN CONDUITS CARRYING POWER CONDUCTORS. REVIEW DRAWINGS OF OTHER DISCIPLINES TO ASCERTAIN THE REQUIREMENTS OF EQUIPMENT BEING FURNISHED AND/OR INSTALLED BY THAT DIVISION OR OTHERS PRIOR BID. COORDINATE INSTALLATION DETAILS AND LOCATIONS PRIOR TO ROUGH IN.
25. PROVIDE RACEWAY SYSTEMS INCLUDING BACKBOXES, CONDUIT AND PULL STRING FOR CONTROL AND SIGNAL WIRING SPECIFIED BY OTHER DISCIPLINES.
26. WHERE A MOTOR STARTING SWITCH OR DISCONNECT IS SHOWN ADJACENT TO EQUIPMENT, MOUNT THE SWITCH OR DISCONNECT ON BUILDING STEEL OR WALL. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT FROM SWITCH OR DISCONNECT TO THE UNIT. MOUNTING A DISCONNECT ONTO THE EQUIPMENT IS NOT ALLOWED.
27. DEVICE/RECEPTACLE LOCATIONS AND ELEVATIONS ARE SHOWN FOR CIRCUITING AND GENERAL ARRANGEMENT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES, AND ADDITIONAL DETAILS PRIOR TO ROUGH IN. UNLESS SHOWN OTHERWISE ON ARCHITECTURAL PLANS.
28. LIGHTING LAYOUTS AND EXACT LOCATIONS OF LUMINAIRES TO BE FIELD COORDINATED WITH OTHER TRADES AT TIME OF CONSTRUCTION AND PRIOR TO INSTALLATION WITH OTHER TRADE'S LATEST DRAWINGS AND EQUIPMENT LAYOUTS. LUMINAIRES BEING BLOCKED BY OTHER TRADES OR OWNER'S EQUIPMENT, PIPES, DUCTS, ETC. MUST BE RELOCATED.
29. CLEAN RELOCATED LUMINAIRES AFTER REINSTALLATION. SCRAP AND DEBRIS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF.
30. THE CONTRACTOR GUARANTEES BY HIS ACCEPTANCE OF THE CONTRACT THAT WORK INSTALLED WILL BE FREE FROM ANY AND ALL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF COMPLETION AND ACCEPTANCE OF WORK.

DEMOLITION GENERAL NOTES

1. DEMOLITION AND RELOCATION WORK INDICATED ON THE DRAWINGS IS BASED UPON THE BEST AVAILABLE INFORMATION AS TO THE LOCATION, SIZE AND IDENTIFICATION OF THE EXISTING FIRE ALARM EQUIPMENT, FIRE ALARM ANNUNCIATING DEVICES, FIRE ALARM INITIATING DEVICES, ELECTRICAL EQUIPMENT. DISCONNECTS STARTERS. PANELBOARDS TRANSFORMERS LUMINAIRES AND DEVICES. THE CONTRACTOR SHALL WALK THROUGHOUT THE EXISTING FACILITY'S SITE AND BUILDING INSIDE AND OUTSIDE TO IDENTIFY THE EXACT LOCATION(S) AND ELECTRICAL WORK INVOLVED PRIOR TO BIDDING MAJOR DEVIATIONS FOUND SHALL BE REPORTED TO THE ENGINEER. IN GENERAL, REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES AS NOTED ON THE PLANS.
   a. REFER TO DEMOLITION PLANS OF OTHER DISCIPLINES FOR RELATED DEMOLITION AND RELOCATION OF WALLS, CEILING, AND IMPACTS ON POWERED EQUIPMENT, AS WELL AS GENERAL DEMOLITION NOTES.
2. THE RELOCATION AND DEMOLITION OF THE SPECIAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE OWNER'S VENDOR OR INSTALLER UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S VENDOR OR INSTALLER. SPECIAL SYSTEMS ARE: ALARMS, TELEPHONE, PAGING AND SOUND, SECURITY AND COMPUTER SYSTEMS.
3. DEVICES SHOWN DASHED, CROSSHATCHED AND/OR SHOWN ON DASHED WALLS (TO BE DEMOLISHED) SHALL BE DEMOLISHED. INCLUDING ELECTRICAL LIGHT FIXTURES. BRANCH PANELS, POWER, RECEPTACLES, EXIT LIGHTS, LIGHT SWITCHES, ELECTRICAL ASSOCIATED WITH DEMO WORK, UNDER CABINET LIGHTS, ABANDONED J-BOXES, PULL BOXES, DISCONNECTS, SWITCHES, DISCONNECTS, SUPPORTS, THERMOSTATS, BACKBOARDS ETC., SHALL BE COMPLETELY REMOVED INCLUDING WIRE BACK TO PANEL OR BACKBOARD UNLESS NOTED OTHERWISE TO REMAIN OR TO BE RELOCATED. CONDUITS IN WALL OR SLAB SHALL BE CAPPED AND ABANDONED IN PLACE.
   b. SWITCH PLATES, CONTROL PLATES, FIXTURE MOUNTING BOLTS AND SIMILAR VISIBLE ACCESSORY ITEMS SHALL ALSO BE REMOVED. THE OPENINGS, HOLES, AND DAMAGED AREAS DUE TO REMOVAL OF THESE ITEMS AND THE REMOVAL OR ABANDONMENT OF RECEPTACLES SHALL BE PATCHED. REPAIRED AND REFINISHED TO MATCH ADJACENT AREAS. THIS APPLIES TO WALLS, FLOORS, CEILINGS, AND ROOFS.
4. CONTRACTOR SHALL FIELD EXISTING CONDITIONS, ELECTRICAL SHOWN ON DEMOLITION DRAWINGS IS TO ASSIST IN IDENTIFYING EXISTING CONDITIONS FROM RECORD DRAWINGS AND/OR NON-EVASIVE FIELD INVESTIGATION. CONTRACTOR SHALL PROVIDE DEMOLITION WITH THE INTENT OF REMOVING EXISTING ELECTRICAL WITHIN THE PROJECT AREA UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR REVIEW MATERIAL AND EQUIPMENT TO BE SALVAGED AT THE BEGINNING OF HE PROJECT WITH THE OWNER. THE MATERIAL AND EQUIPMENT SHALL INCLUDE LUMINAIRES, LAMPS, BALLAST, ETC. ALL MATERIAL NOT SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL ELECTRICAL EQUIPMENT, LUMINARES, BALLASTS, DEVICES, WIRING, CONDUIT, ETC. AND PROVIDE THEIR PROPER ENVIRONMENTAL DISPOSAL.
6. PANELBOARDS, SWITCHES , RECEPTACLES, DEVICES, ETC. TO BE REUSED, WEATHER SHOWN OR NOT SHOWN, SHALL BE TO THE DISCRETION OF THE CONTRACTOR AND THEIR RESPONSIBILITY TO FIELD VERIFY. MAJOR DEVIATIONS SHALL BE REPORTED TO THE ENGINEER AND NOTED IN THE BID PROPOSAL. ALL EXISTING EQUIPMENT TO BE REUSED SHALL HAVE ONE YEAR WARRANTY AFTER DATE OF ACCEPTANCE OF INSTALLATION BY THE OWNER FROM THIS ELECTRICAL CONTRACTOR.
7. FOR EQUIPMENT TO BE RELOCATED, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING TO NEW LOCATION. PROVIDE PULL BOXES, SPLICE KITS, CONDUIT, AND CONDUCTORS TO MATCH EXISTING MATERIAL, SIZES, TYPES AND QUANTITIES OF EXISTING BRANCH CIRCUITING. REFER TO LIGHTING PLANS FOR SENSOR LOCATIONS.
8. WHEN EXISTING CONDUITS ARE ABANDONED, CONTRACTOR SHALL REMOVE BACK BOXES & WIRING BACK TO SOURCE, AND CAP CONDUITS.
9. CONTRACTOR TO MAINTAIN CONTINUITY OF ELECTRICAL SYSTEMS AND DEVICES TO REMAIN IN OPERATION DURING DEMOLITION. MAINTAINING CONTINUITY SHALL CONSIST OF PROVIDE CONDUIT AND CONDUCTORS FOR REROUTING, INTERCEPTING & EXTENDING BRANCH CIRCUITS TO FIXTURES OR DEVICES TO REMAIN OPERATIONAL FIELD VERIFY QUANTITIES AND SIZE OF EXISTING BRANCH CIRCUIT CONDUITS AND CONDUCTOR TO EXTEND OR REROUTE.
10. JUNCTION BOXES AND CONDUCTOR IN EXISTING WALLS TO REMAIN SHALL BE ABANDONED, OR MAY BE RE-USED IF DEEMED ACCEPTABLE FOR REUSE BY CONTRACTOR.
11. CONTRACTOR SHALL COORDINATE SHUTDOWN PROCEDURES WITH OWNER'S REPRESENTATIVE AND WORK SHALL BE SCHEDULED TO ELIMINATE BUSINESS DISRUPTION DURING OPERATING HOURS.

ABBREVIATIONS AND DESCRIPTION

A	AMPERES
AC	ALTERNATING CURRENT
AIC	AMPERES INTERRUPTING CAPACITY
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME/AMP FUSE
AL	ALUMINUM
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY WITH NYLON PULLCORD
COAS	COAXIAL CABLE
CU	COPPER
CT	CURRENT TRANSFORMER
D	DEMOLISH
DC	DIRECT CURRENT
DIST	DISTRIBUTION
DB	DISTRIBUTION SWITCHBOARD
DWGS	DRAWINGS
E	EXISTING
EF	EXHAUST FAN
EN	NEW LOCATION OF RELOCATED DEVICE/FIXTURE
ER	EXISTING TO RELOCATE
ELECT	ELECTRICAL
ELEV	ELEVATION/ELEVATOR
EMER,EM	EMERGENCY
EMT	ELECTRO-METALLIC TUBING
EQUIP	EQUIPMENT
F	DEGREES FAHRENHEIT
FA	FIRE ALARM
FF	FURNITURE FEED, FINISHED FLOOR
G	GROUND BUS OR WIRE
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
H	HORIZONTAL
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
J-BOX	JUNCTION BOX
KCM	KILO-CIRCULAR-MIL
KVA	KILO-VOLTAMPERE
KW	KILO-WATT
LBS	POUNDS
LV	LOW VOLTAGE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MECH	MECHANICAL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NORMALLY OPEN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PB	PULLBOX
PC	PHOTOCELL CONTROL
PH	PHASE
PLBG	PLUMBING
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PP	POWER POLE
PS	POWER SENTRY EMERGENCY BATTERY UNIT
QTY	QUANTITY
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SB	STANDBY
SD	SMOKE DETECTOR
SPEC	SPECIFICATION
SQFT	SQUARE FEET OR SQUARE FOOT
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEMP	TEMPERATURE OR TEMPORARY
TV	TELEVISION
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLTAMPERE
VFD	VARIABLE FREQUENCE DRIVE
W/	WITH
WP	WEATHERPROOF
WT	WEIGHT

SYMBOL LIST

DUPLEX RECEPTACLE

GFCI DUPLEX RECEPTACLE

GFCI DUPLEX RECEPTACLE, GROUNDED WITH WEATHERPROOF BOX AND GASKETED COVER

DUPLEX RECEPTACLE WITH DUAL USB PORT

GFCI DUPLEX SPLIT RECEPTACLE CONTROLLED VIA OCCUPANCY SENSOR & PERMANENTLY MARKED PER TITLE 24

DUPLEX SPLIT RECEPTACLE CONTROLLED VIA OCCUPANCY SENSOR & PERMANENTLY MARKED PER TITLE 24

HALF SWITCHED RECEPTACLE

QUAD RECEPTACLE

GFCI QUAD RECEPTACLE

GFCI QUAD RECEPTACLE, GROUNDED WITH WEATHERPROOF BOX AND GASKETED COVER

QUAD RECEPTACLE WITH DUAL USB PORT

GFCI QUAD RECEPTACLE, 1 OF 4 OUTLETS CONTROLLED VIA OCCUPANCY SENSOR & PERMANENTLY MARKED PER TITLE 24

QUAD RECEPTACLE, 1 OF 4 OUTLETS CONTROLLED VIA OCCUPANCY SENSOR & PERMANENTLY MARKED PER TITLE 24

DUPLEX RECEPTACLE WITH ISOLATED GROUND

SPECIALTY RECEPTACLE. VOLTAGE AND NEMA CONFIGURATION AS SPECIFIED IN PLAN NOTES

DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED, FOR POKE-THRU INSTALLATION

QUAD RECEPTACLE, FLUSH FLOOR MOUNTED, FOR POKE-THRU INSTALLATION

FURNITURE FEED, FLUSH FLOOR MOUNTED, FOR POKE-THRU INSTALLATION

SPECIALTY RECEPTACLE, FLUSH FLOOR MOUNTED, FOR POKE-THRU INSTALLATION

COMBINATION DUPLEX POWER & DATA OUTLET, FLUSH FLOOR MOUNTED FOR POKE-THRU INSTALLATION

COMBINATION QUAD POWER & DATA OUTLET, FLUSH FLOOR MOUNTED FOR POKE-THRU INSTALLATION

COMBINATION DUPLEX POWER, DATA & AV OUTLET, FLUSH FLOOR MOUNTED FOR POKE-THRU INSTALLATION

COMBINATION QUAD POWER, DATA & AV OUTLET, FLUSH FLOOR MOUNTED FOR POKE-THRU INSTALLATION

DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED, FOR IN-SLAB INSTALLATION

QUAD RECEPTACLE, FLUSH FLOOR MOUNTED, FOR IN-SLAB INSTALLATION

FURNITURE FEED, FLUSH FLOOR MOUNTED, FOR IN-SLAB INSTALLATION

SPECIALTY RECEPTACLE, FLUSH FLOOR MOUNTED, FOR IN-SLAB INSTALLATION

COMBINATION DUPLEX POWER & DATA OUTLET, FLUSH FLOOR MOUNTED FOR IN-SLAB INSTALLATION

COMBINATION QUAD POWER & DATA OUTLET, FLUSH FLOOR MOUNTED FOR IN-SLAB INSTALLATION

COMBINATION DUPLEX POWER, DATA & AV OUTLET, FLUSH FLOOR MOUNTED FOR IN-SLAB INSTALLATION

COMBINATION QUAD POWER, DATA & AV OUTLET, FLUSH FLOOR MOUNTED FOR IN-SLAB INSTALLATION

(1) TELEPHONE AND (1) DATA OUTLET WITH COVER PLATE, 3/4" CONDUIT, AND PULL STRING TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS.

(1) TV OUTLET WITH COVER PLATE, 3/4" CONDUIT, AND PULL STRING TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS.

MECHANICAL/PLUMBING EQUIPMENT TAG

VARIABLE FREQUENCY DRIVE, SIZE AS NOTED

DISCONNECT SWITCH, SIZE AS NOTED

JUNCTION BOX, CEILING MOUNTED

JUNCTION BOX, WALL MOUNTED

JUNCTION BOX, GROUND MOUNTED, FOR IN-SLAB INSTALLATION

ELECTRICAL PANELBOARD

DIGITAL SWITCH, WALL MOUNTED

DUAL-TECH OCCUPANCY SENSOR, CEILING MOUNTED

VACANCY SENSOR, CEILING MOUNTED

DUAL-TECH MOTION SENSOR, WALL MOUNTED

VACANCY SENSOR, WALL MOUNTED

(2) 2-GANG BACKBOXES; (1) FOR POWER AND (1) FOR DATA FOR CONNECTION TO FURNITURE SYSTEM

PHOTO SENSOR, CEILING MOUNTED

UL924 EMERGENCY SWITCH MODULE, PROVIDES MIRROR SWITCHING OF NORMAL SWITCH LEG AND PROVIDES UL924 SWITCHING TO FULL BRIGHT UPON POWER LOSS.

DIMMING ROOM CONTROLLER

20A SPST TOGGLE SWITCH

20A DIMMER SWITCH

MOTOR RATED SWITCH

BRANCH CIRCUIT HOMERUN

3/4" CONDUIT MINIMUM - 1#12 HOT, 1#12 NEUTRAL AND 1#12 GROUND. TYPICAL UNLESS NOTED OTHERWISE.

BRANCH CIRCUIT WIRING WITH TICK MARKS

ELECTRICAL PANEL ON SINGLE LINE DIAGRAM

CIRCUIT BREAKER ON SINGLE LINE DIAGRAM

FUSE ON SINGLE LINE DIAGRAM

TRANSFORMER ON SIGNLE LINE DIAGRAM

AUTOMATIC TRANSFER SWITCH ON SINGLE LINE DIAGRAM

GROUNDING ELECTRODE AND CONDUCTOR

CIRCUIT BREAKER WITH ELECTRONIC SENSING, TIMING AND TRIPPING CONTROL WITH FIELD INTERCHANGEABLE TRIP UNITS. PROVIDE TRUE RMS FUNCTIONS WITH DESCRETE FIELD ADJUSTABLE SETTINGS INDEPENDENT OF OTHER ADJUSTMENTS.

A - ARC FLASH REDUCTION
L - LONG TIME TRIP
S - SHORT TIME OVERCURRENT TRIP
I - INSTANTANEOUS TRIP
G - GROUND FAULT TRIP. GROUND FAULT SENSING INTEGRAL WITH CIRCUIT BREAKER.

METER WITH CURRENT TRANSFORMERS

ELECTRIC MOTOR, SIZE AS NOTED

THERMOSTAT. PROVIDE BACKBOX AND 3/4" CONDUIT WITH PULL STRING SUBBED UP TO ACCESSIBLE CEILING

FEEDER TABLES

600V Cu FEEDER TABLE 1PH, 2W

ID	SETS	PHASE	NEUTRAL	GROUND	CONDUIT
20F	1	2 # 12	N/A	1 # 12	3/4"
30F	1	2 #10	N/A	1 # 10	3/4"
40F	1	2 # 8	N/A	1 # 10	3/4"
50F	1	2 # 6	N/A	1 # 10	3/4"
60F	1	2 # 4	N/A	1 # 10	1"
70F	1	2 # 4	N/A	1 # 8	1"
80F	1	2 # 2	N/A	1 # 8	1"
90F	1	2 # 2	N/A	1 # 8	1"
100F	1	2 # 1	N/A	1 # 8	1-1/4"
125F	1	2 # 1	N/A	1 # 6	1-1/4"

600V Cu FEEDER TABLE 1PH, 3W

ID	SETS	PHASE	NEUTRAL	GROUND	CONDUIT
20G	1	2 # 12	1 # 12	1 # 12	3/4"
30G	1	2 #10	1 # 10	1 # 10	3/4"
40G	1	2 # 8	1 # 8	1 # 10	3/4"
50G	1	2 # 6	1 # 6	1 # 10	1"
60G	1	2 # 4	1 # 4	1 # 10	1"
70G	1	2 # 4	1 # 4	1 # 8	1-1/4"
80G	1	2 # 2	1 # 2	1 # 8	1-1/4"
90G	1	2 # 2	1 # 2	1 # 8	1-1/4"
100G	1	2 # 1	1 # 1	1 # 8	1-1/2"
125G	1	2 # 1	1 # 1	1 # 6	1-1/2"

600V Cu FEEDER TABLE 3PH, 3W

ID	SETS	PHASE	NEUTRAL	GROUND	CONDUIT
20A	1	3 # 12	N/A	1 # 12	3/4"
30A	1	3 #10	N/A	1 # 10	3/4"
40A	1	3 # 8	N/A	1 # 10	3/4"
50A	1	3 # 6	N/A	1 # 10	1"
60A	1	3 # 4	N/A	1 # 10	1"
70A	1	3 # 4	N/A	1 # 8	1-1/4"
80A	1	3 # 2	N/A	1 # 8	1-1/4"
90A	1	3 # 2	N/A	1 # 8	1-1/4"
100A	1	3 # 1	N/A	1 # 8	1-1/2"
125A	1	3 # 1	N/A	1 # 6	1-1/2"
150A	1	3 # 1/0	N/A	1 # 6	1-1/2"
175A	1	3 # 2/0	N/A	1 # 6	2"
200A	1	3 # 3/0	N/A	1 # 6	2"
225A	1	3 # 4/0	N/A	1 # 4	2"
250A	1	3 # 250kcmil	N/A	1 # 4	2-1/2"
300A	1	3 # 350kcmil	N/A	1 # 4	3"
400A	1	3 # 600kcmil	N/A	1 # 2	4"
500A	2	3 # 250kcmil	N/A	1 # 2	2-1/2"
600A	2	3 # 350kcmil	N/A	1 # 1	3"
800A	2	3 # 600kcmil	N/A	1 # 1/0	4"
1000A	3	3 # 500kcmil	N/A	1 # 2/0	4"
1200A	3	3 # 600kcmil	N/A	1 # 3/0	4"
1600A	4	3 # 600kcmil	N/A	1 # 4/0	4"
2000A	5	3 # 600kcmil	N/A	1 # 250kcmil	4"
2500A	6	3 # 600kcmil	N/A	1 # 350kcmil	4"
3000A	8	3 # 600kcmil	N/A	1 # 400kcmil	4"
4000A	10	3 # 600kcmil	N/A	1 # 500kcmil	4"

600V Cu FEEDER TABLE 3PH, 4W

ID	SETS	PHASE	NEUTRAL	GROUND	CONDUIT
20Y	1	3 # 12	1 # 12	1 # 12	3/4"
30Y	1	3 #10	1 # 10	1 # 10	3/4"
40Y	1	3 # 8	1 # 8	1 # 10	1"
50Y	1	3 # 6	1 # 6	1 # 10	1"
60Y	1	3 # 4	1 # 4	1 # 10	1-1/4"
70Y	1	3 # 4	1 # 4

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V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections 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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch; CLASSROOM; CONFERENCE ROOM; DINING; DORM; EXAM; KITCHEN; LAUNDRY; LOBBY ENTRY; LOUNGE BREAKROOM WAITING; MEDICATION; OFFICE < 250; OFFICE > 250; RESTROOM;
NRCA-LTI-03-A - Must be submitted for daylight responsive controls.	CONFERENCE ROOM; CORRIDOR; DINING; DORM; LOBBY ENTRY; LOUNGE BREAKROOM WAITING; SERVER; STAIR; STORAGE;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE 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.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

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J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

RESTROOM	Restroom	Decorative/ Display A	0.35	2628	919.8	F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7
						F	13.7	1	13.7

Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:
123.3	919.8	123.3
11		
Total Additional Allowance (Watts) CONDITIONED SPACES		164

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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv												Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance §140.7(d)1 / §170.2(e)6 (See Table I)	+	Per Application §140.7(d)2 / §170.2(e)6 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 / §170.2(e)6 (See Table L)	+	Per Specific Area §140.7(d)2 / §170.2(e)6 (See Table M)	OR	Existing Power Allowance §141.0(b)2L / § 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
0	+	99	+	---	+	---	+	---	OR	---	=	99	≥	99	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															Not applicable

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.

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Project Address: 11109 Jasmine St.	**Date Prepared:**	6/12/2026

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e)6, §180.1(a) and §180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Fontana	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	10			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				

● Classroom ● Healthcare Facility ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 / §170.2(e)6 or §141.0(b)2L / § 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from §140.7 / §170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Sage McNeil	*Sage McNeil*
Company: Linwood Engineering, Inc.	Signature Date: 2026-06-12
Address: 3333 Michelson Dr Suite 450	CEA/AEA/ECC Certification Identification (if applicable):
City/State/Zip: Irvine CA 92612	Phone: 949.379.7387

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 Person Name:	Responsible Person Signature:
Jason Rezell	
Responsible Person Scope:	
Company: Linwood Engineering, Inc.	Date Signed: 2026-06-12
Address: 3333 Michelson Dr. Suite 450	License: E25759
City/State/Zip: Irvine CA 92612	Phone: 714.424.0001

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Regional Navigation Center	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	6/12/2026

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B [1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
EXIT DOORS	Building Entrance/Exit	11	15	165	TE	9	11	99	99
							Total Design Watts for this Area:	99	
							Total Allowance (Watts) All Areas:		99

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Regional Navigation Center	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	6/12/2026

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1 / §160.5(c)	Auto-Schedule §130.2(c)2 / §160.5(c)	Motion Sensor §130.2(c)3 / §160.5(c)	Field Inspector	
				Pass	Fail

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

I. LIGHTING POWER ALLOWANCE (per §140.7 /§170.2(e))

This table includes areas using allowance calculations per §140.7 /§170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01					
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☐ General Hardscape Allowance Table I (below)	☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Regional Navigation Center	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	6/12/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 / §170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a) / §170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) /§160.5(c)1 [4]	Field Inspector	
										Pass	Fail
TE	TE	☐ Linear	9	Mfr. Spec	11	New	☐	99	NA: < 6200 lumens	☐	☐
							Total Design Watts:	99			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) / §160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)/ §160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

2

BORDERS ARCHITECTS
ARCHITECTURE | PLANNING | COMMERCIAL INTERIORS
1675 SCENIC AVENUE
SUITE 210
COSTA MESA, CA
92626
(949) 851-1317
www.bordersarchitects.com

STAMP

Jason J. Rezell, P.E.
CA # E25759
REGISTERED PROFESSIONAL ENGINEER
JASON JAMES REZELL
E25759
ELECTRICAL
STATE OF CALIFORNIA
EXP. 09/30/27

CONSULTANT

LINWOOD ENGINEERING INC
3333 michelson dr., suite 450
irvine, ca 92612 ■ 714.424.0001
www.linwoodengineering.com

PROJECT

WESTEND NAVIGATION CENTER

11109 JASMINE STREET
FONTANA, CALIFORNIA 92337

FOR

FONTANA
CALIFORNIA

TITLE

TITLE 24
COMPLIANCE
DOCUMENTS

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E022

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Regional Navigation Center	**Report Page:**	**(Page 7 of 7)**
Project Address: 11109 Jasmine St.	**Date Prepared:**	6/12/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Sage McNeil	Sage McNeil
Company:	Signature Date:
Linwood Engineering, Inc.	2026-06-12
Address:	CEA/AEA/ECC Certification Identification (if applicable):
3333 Michelson Dr Suite 450	
City/State/Zip:	Phone:
Irvine CA 92612	949.379.7387

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.
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Responsible Person Name:	Responsible Person Signature:
Jason Rezell	
Responsible Person Scope:	
Company:	Date Signed:
Linwood Engineering, Inc.	2026-06-12
Address:	License:
3333 Michelson Dr. Suite 450	E25759
City/State/Zip:	Phone:
Irvine CA 92612	714.424.0001

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Regional Navigation Center	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	6/12/2026

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

BORDERS ARCHITECTS
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Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet
E023
2

LIGHTING CONTROLS SEQUENCE OF OPERATION MASTER

PROVIDE A COMPLETE DIGITALLY NETWORKED LIGHTING CONTROLS SYSTEM COMPLETE WITH SENSORS, COMPONENTS, DEVICES, NETWORK INTERFACES, MASTER TIME SWITCH CONTROLLER, CONNECTIVITY, ETC. TO ENABLE THE FOLLOWING SEQUENCE OF OPERATIONS FOR EACH SPACE TYPE LISTED.

REFER TO PLANS FOR NUMBER AND LOCATIONS OF MANUAL CONTROL STATIONS FOR MULTI-WAY SWITCHING FOR SPECIFIC ROOMS. EACH SWITCH SHALL CONTROL LIGHTING IN AN AREA NOT TO EXCEED 5000 SQUARE FEET.

AFTER INSTALLATION PROVIDE START UP AND COMMISSIONING SERVICES TO MEET THESE CONTROL REQUIREMENTS, COMPLETE AND SUBMIT ACCEPTANCE TESTING AND COMPLIANCE DOCUMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.

PROVIDE OWNER WITH (X) PROGRAMMING UNIT(S) AT COMPLETION OF INSTALLATION AND PROGRAMMING, AS WELL AS TRAINING AND OPERATION MANUALS.

A. CLASSROOM, DINING
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

B. DORM
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

C. KITCHEN, LAUNDRY
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

D. EXAM, MEDICATION
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL

E. PRIVATE RESTROOMS, STORAGE, UTILITY ROOMS (<100SQFT)
1. AUTOMATIC ON/OFF CONTROLS
   a. WALL BOX TYPE VACANCY SENSOR WITH MANUAL ON/OFF CONTROL

F. STORAGE, UTILITY ROOMS (>100SQFT)
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL

G. SMALL OFFICES ≤ 250SF, COPY ROOMS, BREAK ROOMS
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. RECEPTACLE CONTROL
   a. AUTOMATIC CONTROL VIA PLUG LOAD CONTROLLER
   i. UPON OCCUPANCY: CONTROLLED RECEPTACLES ENERGIZED
   ii. UPON VACANCY: CONTROLLED RECEPTACLES DE-ENERGIZED
   iii. [UPON DEMAND RESPONSE SIGNAL: CONTROLLED RECEPTACLES DE-ENERGIZED]

H. SMALL OFFICES ≤ 250SF WITH DAYLIGHTING
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. AUTOMATIC DAYLIGHTING CONTROL
   a. IN ROOM PHOTOSENSOR REDUCES FIXTURE OUTPUT WHEN DAYLIGHT PRESENT AND OCCUPIED
3. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
   i. OVERRIDES AUTOMATIC DAYLIGHTING CONTROL.
4. RECEPTACLE CONTROL
   a. AUTOMATIC CONTROL VIA PLUG LOAD CONTROLLER
   i. UPON OCCUPANCY: CONTROLLED RECEPTACLES ENERGIZED
   ii. UPON VACANCY: CONTROLLED RECEPTACLES DE-ENERGIZED
   iii. [UPON DEMAND RESPONSE SIGNAL: CONTROLLED RECEPTACLES DE-ENERGIZED]

I. CONFERENCE ROOMS
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. RECEPTACLE CONTROL
   a. AUTOMATIC CONTROL VIA PLUG LOAD CONTROLLER
   i. UPON OCCUPANCY: CONTROLLED RECEPTACLES ENERGIZED
   ii. UPON VACANCY: CONTROLLED RECEPTACLES DE-ENERGIZED
   iii. [UPON DEMAND RESPONSE SIGNAL: CONTROLLED RECEPTACLES DE-ENERGIZED]

J. CONFERENCE ROOMS WITH DAYLIGHTING
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. AUTOMATIC DAYLIGHTING CONTROL
   a. IN ROOM PHOTOSENSOR REDUCES FIXTURE OUTPUT WHEN DAYLIGHT PRESENT AND OCCUPIED
3. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
   i. OVERRIDES AUTOMATIC DAYLIGHTING CONTROL
4. RECEPTACLE CONTROL
   a. AUTOMATIC CONTROL VIA PLUG LOAD CONTROLLER
   i. UPON OCCUPANCY: CONTROLLED RECEPTACLES ENERGIZED
   ii. UPON VACANCY: CONTROLLED RECEPTACLES DE-ENERGIZED
   iii. [UPON DEMAND RESPONSE SIGNAL: CONTROLLED RECEPTACLES DE-ENERGIZED]

K. MULTI-USER RESTROOMS
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

L. HALLWAY
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING REDUCED TO 40% OUTPUT
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

M. LOBBY
1. AUTOMATIC ON/OFF CONTROLS
   a. TIME SCHEDULE CONTROL WITH DIGITAL ROOM CONTROLLER AS FOLLOWS:
   i. TO BE DETERMINED BY OWNER
   b. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING REDUCED TO 50% OUTPUT
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL PER SWITCH LEG SHOWN
3. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

N. MAIN ENTRY LOBBY
1. AUTOMATIC ON/OFF CONTROLS
   a. TIME SCHEDULE CONTROL WITH DIGITAL ROOM CONTROLLER AS FOLLOWS:
   i. TO BE DETERMINED BY OWNER
   b. DUAL TECHNOLOGY OCCUPANCY SENSOR FOR AFTERHOURS OVERRIDE
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: OFF
2. AUTOMATIC DAYLIGHTING CONTROL
   a. IN ROOM PHOTOSENSOR REDUCES FIXTURE OUTPUT WHEN DAYLIGHT PRESENT AND OCCUPIED
3. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL PER SWITCH LEG SHOWN
   i. OVERRIDES AUTOMATIC DAYLIGHTING CONTROL
4. EMERGENCY LIGHTING
   a. FIXTURES PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

O. STAIRWELLS
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING REDUCED TO 50% OUTPUT
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL
3. EMERGENCY LIGHTING
   a. FIXTURE PROVIDED WITH INTEGRAL BATTERY BACKUP WITH AN UNSWITCHED HOT FOR POWER FAILURE SENSING
   b. FIXTURE SHALL BE CONTROLLED ALONG WITH ADJACENT FIXTURES UNDER NORMAL CONDITIONS

P. MULTIPURPOSE ROOMS <1000SF -
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL PER SWITCH LEG SHOWN
3. RECEPTACLE CONTROL
   a. AUTOMATIC CONTROL VIA PLUG LOAD CONTROLLER
   i. UPON OCCUPANCY: CONTROLLED RECEPTACLES ENERGIZED
   ii. UPON VACANCY: CONTROLLED RECEPTACLES DE-ENERGIZED
   iii. [UPON DEMAND RESPONSE SIGNAL: CONTROLLED RECEPTACLES DE-ENERGIZED]

Q. MULTIPURPOSE ROOMS <1000SF WITH DAYLIGHTING-
1. AUTOMATIC ON/OFF CONTROLS
   a. DUAL TECHNOLOGY OCCUPANCY SENSOR WITH DIGITAL ROOM CONTROLLER
   i. UPON OCCUPANCY: LIGHTING ON TO 70% MAXIMUM
   ii. UPON VACANCY: LIGHTING TO TURN OFF
2. AUTOMATIC DAYLIGHTING CONTROL
   a. IN ROOM PHOTOSENSOR REDUCES FIXTURE OUTPUT WHEN DAYLIGHT PRESENT AND OCCUPIED
3. MANUAL USER CONTROL - DIGITAL LOW VOLTAGE SWITCHES
   a. SEPARATE ON/OFF CONTROL AS WELL AS RAISE/LOWER CONTROL PER SWITCH LEG SHOWN
   i. OVERRIDES AUTOMATIC DAYLIGHTING CONTROL.
4. RECEPTACLE CONTROL
   a. AUTOMATIC CONTROL VIA PLUG LOAD CONTROLLER
   i. UPON OCCUPANCY: CONTROLLED RECEPTACLES ENERGIZED
   ii. UPON VACANCY: CONTROLLED RECEPTACLES DE-ENERGIZED
   iii. [UPON DEMAND RESPONSE SIGNAL: CONTROLLED RECEPTACLES DE-ENERGIZED]

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	LAMP TYPE	LAMP INFO	MOUNTING	LOAD (VA)	VOLTAGE	DIM TYPE	COMMENTS
A1	4' SUSPENDED LINEAR WITH 5100 LUMEN OUTPUT. "P" PENDANT "S" SURFACE	PRUDENTIAL LTG	S1-PRO LED35 SO 4 SAL YSL UNV CA [CEILING] DM01	INTEGRAL LED	5100 LM 80 CRI 3500K	PENDANT/ SURFACE	37.6	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
A1E	SIMILAR TO FIXTURE TYPE 'A1' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1350 LUMENS.	PRUDENTIAL LTG	S1-PRO LED35 SO 4 SAL YSL UNV CA [CEILING] DM01 EMHE	INTEGRAL LED	5100 LM 80 CRI 3500K	PENDANT/ SURFACE	37.6	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
A2	4' SUSPENDED LINEAR WITH 6500 LUMEN OUTPUT. "P" PENDANT "S" SURFACE	PRUDENTIAL LTG	S1-PRO LED35 HO 4 SAL YSL UNV CA [CEILING] DM01	INTEGRAL LED	6500 LM 80 CRI 3500K	PENDANT/ SURFACE	50	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
A2E	SIMILAR TO FIXTURE TYPE 'A2' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1350 LUMENS.	PRUDENTIAL LTG	S1-PRO LED35 HO 4 SAL YSL UNV CA [CEILING] DM01 EMHE	INTEGRAL LED	6500 LM 80 CRI 3500K	PENDANT/ SURFACE	50	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
B	6' SUSPENDED LINEAR FIXTURE. "P" PENDANT "S" SURFACE	PRUDENTIAL LTG	S1-PRO LED35 SO 6 SAL YSL UNV CA [CEILING] DM01	INTEGRAL LED	7650 LM 80 CRI 3500K	PENDANT/ SURFACE	56.4	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
BE	SIMILAR TO FIXTURE TYPE 'B' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1350 LUMENS.	PRUDENTIAL LTG	S1-PRO LED35 SO 6 SAL YSL UNV CA [CEILING] DM01 EMHE	INTEGRAL LED	7650 LM 80 CRI 3500K	PENDANT/ SURFACE	56.4	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
C	8' SUSPENDED LINEAR FIXTURE. "P" PENDANT "S" SURFACE	PRUDENTIAL LTG	S1-PRO LED35 HO 8 SAL YSL UNV CA [CEILING] DM01	INTEGRAL LED	13000 LM 80 CRI 3500K	PENDANT/ SURFACE	100	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
CE	SIMILAR TO FIXTURE TYPE 'C' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1350 LUMENS.	PRUDENTIAL LTG	S1-PRO LED35 HO 8 SAL YSL UNV CA [CEILING] DM01 EMHE	INTEGRAL LED	13000 LM 80 CRI 3500K	PENDANT/ SURFACE	100	UNV	0-10V	CONFIRM CEILING CONFIGURATION AND MOUNTING HEIGHT WITH ARCHITECT.
D	4" DIAMETER APERATURE RECESSED DOWNLIGHT WITH 1500 LUMEN OUTPUT.	DMF LIGHTING	M4 NC R [RATING] DRD2M 15 935 GA W O M4TR [STYLE] WH	INTEGRAL LED	1500 LM 90 CRI 3500K	RECESSED	18	UNV	0-10V	
DE	SIMILAR TO FIXTURE TYPE 'D' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER.	DMF LIGHTING	M4 NC R [RATING] DRD2M 15 935 GA W O M4TR [STYLE] WH EM	INTEGRAL LED	1500 LM 90 CRI 3500K	RECESSED	18	UNV	0-10V	
E	NIGHT LIGHT	PRESCOLITE	MW-V-1-AL-PC	INTEGRAL LED	18 LM	SURFACE	2	UNV	NA	
F	SURFACE MOUNTED 2' LINEAR FIXTURE.	COLUMBIA LIGHTING	MPS2 35 LW CW ED1 U	INTEGRAL LED	2400 LM 80 CRI 3500K	SURFACE WALL OR CEILING	13.7	UNV	0-10V	
G1	SURFACE MOUNTED 4' LINEAR FIXTURE WITH 3600 LUMEN OUTPUT.	COLUMBIA LIGHTING	MPS4 35 MW CW ED1 U	INTEGRAL LED	3600 LM 80 CRI 3500K	SURFACE WALL OR CEILING	26.7	UNV	0-10V	
G2	SURFACE MOUNTED 4' LINEAR FIXTURE WITH 4500 LUMEN OUTPUT.	COLUMBIA LIGHTING	MPS4 35 ML CW ED1 U	INTEGRAL LED	4500 LM 80 CRI 3500K	SURFACE WALL OR CEILING	31.6	UNV	0-10V	
G2E	SIMILAR TO FIXTURE TYPE 'G2' EXCEPT EQUIPPED WITH 10W INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER.	COLUMBIA LIGHTING	MPS4 35 ML CW ED1 U ELL14	INTEGRAL LED	4500 LM 80 CRI 3500K	SURFACE WALL OR CEILING	31.6	UNV	0-10V	
H	SURFACE MOUNTED 8' LINEAR FIXTURE.	COLUMBIA LIGHTING	MPS8 35 LW CW ED1 U	INTEGRAL LED	7900 LM 80 CRI 3500K	SURFACE WALL OR CEILING	54.6	UNV	0-10V	
HE	SIMILAR TO FIXTURE TYPE 'H' EXCEPT EQUIPPED WITH 10W INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER.	COLUMBIA LIGHTING	MPS8 35 LW CW ED1 U ELL14	INTEGRAL LED	7900 LM 80 CRI 3500K	SURFACE WALL OR CEILING	54.6	UNV	0-10V	
I1	RECESSED 2X2 FIXTURE WITH 2747 LUMEN OUTPUT.	COLUMBIA LIGHTING	LCAT22 35 LWG ED1 U	INTEGRAL LED	2747 LM 80 CRI 3500K	RECESSED	23	UNV	0-10V	
I1E	SIMILAR TO FIXTURE TYPE '11' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1400 LUMENS.	COLUMBIA LIGHTING	LCAT22 35 LWG ED1 U ELL14	INTEGRAL LED	2747 LM 80 CRI 3500K	RECESSED	23	UNV	0-10V	
I2	RECESSED 2X2 FIXTURE WITH 3380 LUMEN OUTPUT.	COLUMBIA LIGHTING	LCAT22 35 MLG ED1 U	INTEGRAL LED	3380 LM 80 CRI 3500K	RECESSED	29	UNV	0-10V	
I2E	SIMILAR TO FIXTURE TYPE 'I2' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1400 LUMENS.	COLUMBIA LIGHTING	LCAT22 35 MLG ED1 U	INTEGRAL LED	3380 LM 80 CRI 3500K	RECESSED	29	UNV	0-10V	
I3	RECESSED 2X2 FIXTURE WITH 3664 LUMEN OUTPUT.	COLUMBIA LIGHTING	LCAT22 35 HLG ED1 U	INTEGRAL LED	3664 LM 80 CRI 3500K	RECESSED	32	UNV	0-10V	
I3E	SIMILAR TO FIXTURE TYPE 'I3' EXCEPT EQUIPPED WITH INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER. EMERGENCY BATTERY DELIVERS 1400 LUMENS.	COLUMBIA LIGHTING	LCAT22 35 HLG ED1 U	INTEGRAL LED	3664 LM 80 CRI 3500K	RECESSED	32	UNV	0-10V	
J	LOW GLARE BACK-LIT LED PANEL WITH EXTERNAL DRIVER.	LITHONIA LIGHTING	CPX 2X2 3200LM 80 35K SWL MIN1 ZT MVOLT	INTEGRAL LED	3200 LM 80 CRI 3500K	RECESSED	30.1	UNV	0-10V	
JE	SIMILAR TO FIXTURE TYPE 'J' EXCEPT EQUIPPED WITH 10W INTEGRAL BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY BACKUP POWER.	LITHONIA LIGHTING	CPX 2X2 3200LM 80 35K SWL MIN1 ZT MVOLT E10W	INTEGRAL LED	3200 LM 80 CRI 3500K	RECESSED	30.1	UNV	0-10V	
K	34" DIAMETER LED DRUM PENDANT FIXTURE	LUMETTA	P2034-W-L413-LED-UNIV-LTW-LBW	INTEGRAL LED	4837 LM 90 CRI 3500K	PENDANT	63	UNV	0-10V	CONFIRM CEILING CONFIGURATION, COLOR AND MOUNTING HEIGHT WITH ARCHITECT.
L	24" DIAMETER LED LIGHT RING	PRUDENTIAL LTG	0-20 LED35 SO YXX D1 SC UNV CA144" X3	INTEGRAL LED	4200 LM 90 CRI 3500K	PENDANT	70	UNV	0-10V	CONFIRM CEILING CONFIGURATION, COLOR AND MOUNTING HEIGHT WITH ARCHITECT.
M	24" WIDE LED WALL VANITY	AFX	EMAV2404LAJUDBK	INTEGRAL LED	1460 LM 90 CRI 3500K	WALL	23	UNV	0-10V	CONFIRM COLOR WITH ARCHITECT.
N	44" DIAMETER LED ECHO PENDANT	LUMETTA	EP54415-W-F2-D792-02-L413-LED-LTC4	INTEGRAL LED	6420 LM 90 CRI 3500K	PENDANT	63	UNV	0-10V	CONFIRM CEILING CONFIGURATION, COLOR AND MOUNTING HEIGHT WITH ARCHITECT.
O	12" DIAMETER SHADE LED METAL WALL SCONCE WITH WIRE CAGE	BARN LIGHT CO	BLE-W-HS12-400-WC-NA-LED16-3500K-FL-NA	INTEGRAL LED	1250 LM 90 CRI 3500K	WALL	16	UNV	0-10V	CONFIRM COLOR WITH ARCHITECT.
P	6" DIAMETER X 12" HIGH LED CYLINDER	LUMETTA	AP50612-W-F11-D715	INTEGRAL LED	2140 LM 90 CRI 3500K	RECESSED	21	UNV	0-10V	CONFIRM COLOR WITH ARCHITECT.
Q	12" DIAMETER METAL SHADE LED CHICAGO PENDANT	BARN LIGHT CO	BLE-C-OL12-LED16.8-3500K	INTEGRAL LED	1600 LM 90 CRI 3500K	PENDANT	16	120V	0-10V	CONFIRM COLOR WITH ARCHITECT.
R	23" DIAMETER LED DRUM PENDANT	LUMETTA	P2023-W-F2-L413-LED-UNIV-LTW-LBW	INTEGRAL LED	1605 LM 90 CRI 3500K	PENDANT	21	UNV	0-10V	CONFIRM COLOR WITH ARCHITECT.
S	3" DIAMETER X 15" HIGH LED INDUSTRIAL PENDANT	DAZUMA	HA077320-01B*10	INTEGRAL LED	3000K	PENDANT	8	120V	N/A	
TE	EXTERIOR WALL MOUNTED SCONCE FIXTURE EQUIPPED WITH INTEGRAL 8W BATTERY PACK CAPABLE OF PROVIDING 90 MINUTES OF EMERGENCY POWER.	COOPER	GKO-PB1B-735-U-T4W-[FINISH]-CBP-CEC	INTEGRAL LED	1400 LM 70 CRI 3500K	WALL	9	UNV	N/A	CONFIRM FINISH WITH ARCHITECT.
AA	12" DIAMETER LED MODERN GOLD FLUSH MOUNT CEILING FIXTURE	Z-LITE	7702F12-MGLD-LED	INTEGRAL LED	2400 LM 90 CRI 3500K	CEILING	24	120V	0-10V	

NOTES:
- FIXTURES HAVE BEEN SELECTED SPECIFICALLY FOR COLOR TEMPERATURES, BEAM ANGLES, COLOR RENDITIONING INDICES, AND COATINGS. SUBSTITUTIONS REQUIRE SUBMITTAL OF NORMAL AND EGRESS PHOTOMETRY ALONG WITH INPUT VALUES FOR REVIEW IN CONJUNCTION WITH FIXTURE SUBMITTAL.
- LIGHT FIXTURES IN CONTACT WITH INSULATION SHALL BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDED WITH 3" MINIMUM CLEARANCE.
- APPROVED EQUAL MEANS: LIGHTING FIXTURE PROPOSED BY CONTRACTOR AND APPROVED BY THE ARCHITECT/ENGINEER FOR INCORPORATION IN OR USE IN THE WORK OF THIS PROJECT AS EQUIVALENT IN ESSENTIAL ATTRIBUTES AND PERFORMANCE TO THE LIGHTING FIXTURES SPECIFIED IN THE CONTRACT DOCUMENTS.

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FOR

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CALIFORNIA

TITLE

LIGHTING FIXTURE SCHEDULE

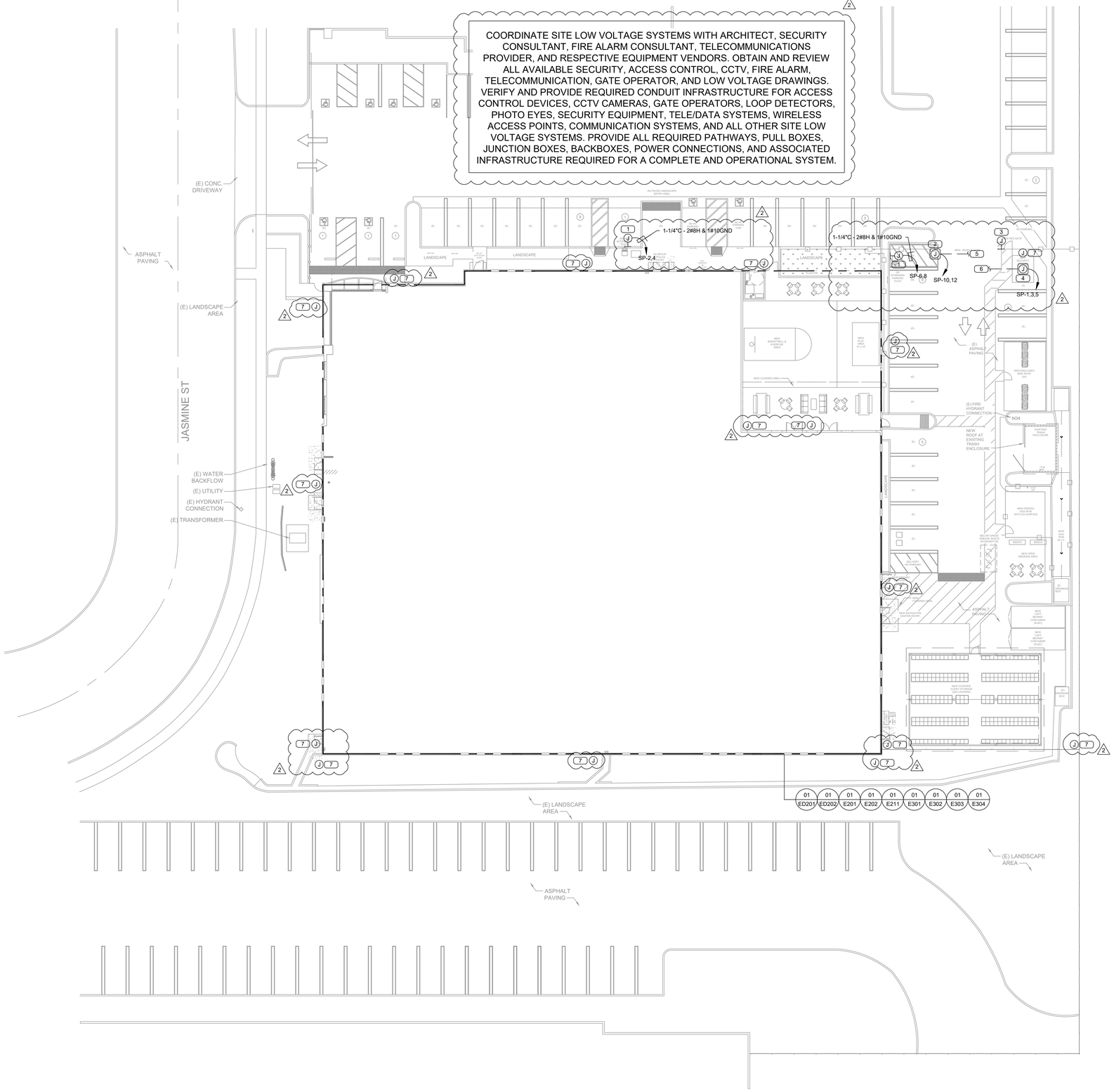
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1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E031

COORDINATE SITE LOW VOLTAGE SYSTEMS WITH ARCHITECT, SECURITY CONSULTANT, FIRE ALARM CONSULTANT, TELECOMMUNICATIONS PROVIDER, AND RESPECTIVE EQUIPMENT VENDORS. OBTAIN AND REVIEW ALL AVAILABLE SECURITY, ACCESS CONTROL, CCTV, FIRE ALARM, TELECOMMUNICATION, GATE OPERATOR, AND LOW VOLTAGE DRAWINGS. VERIFY AND PROVIDE REQUIRED CONDUIT INFRASTRUCTURE FOR ACCESS CONTROL DEVICES, CCTV CAMERAS, GATE OPERATORS, LOOP DETECTORS, PHOTO EYES, SECURITY EQUIPMENT, TELE/DATA SYSTEMS, WIRELESS ACCESS POINTS, COMMUNICATION SYSTEMS, AND ALL OTHER SITE LOW VOLTAGE SYSTEMS. PROVIDE ALL REQUIRED PATHWAYS, PULL BOXES, JUNCTION BOXES, BACKBOXES, POWER CONNECTIONS, AND ASSOCIATED INFRASTRUCTURE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.



KEY NOTES (X)

1. PROVIDE DEDICATED 208V BRANCH CIRCUIT AND COMPLETE POWER CONNECTION FOR ELECTRIC VEHICLE CHARGING STATION AS SHOWN. COORDINATE FINAL CIRCUIT SIZE, BREAKER SIZE, VOLTAGE, AND INSTALLATION REQUIREMENTS WITH EV CHARGER MANUFACTURER PRIOR TO ROUGH-IN.
2. PROVIDE POWER CONNECTION FOR COMPLETE SLIDING GATE OPERATOR SYSTEM INCLUDING BUT NOT LIMITED TO OPERATOR, CONTROLLER, BATTERY BACKUP SYSTEM, LOOP DETECTORS, PHOTO EYES, SAFETY DEVICES, ACCESS CONTROL INTERFACES, AND ALL ASSOCIATED ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE ALL EQUIPMENT REQUIREMENTS WITH GATE SYSTEM MANUFACTURER AND SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE ALL ASSOCIATED CONDUITS, CONDUCTORS, BOXES, AND CONNECTIONS REQUIRED FOR COMPLETE INSTALLATION.
3. PROVIDE CONDUIT ROUGH-IN FOR PEDESTRIAN GATE ACCESS CONTROL DEVICE AS SHOWN. COORDINATE EXACT DEVICE LOCATION, POWER REQUIREMENTS, CABLING REQUIREMENTS, AND INSTALLATION REQUIREMENTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE ALL ASSOCIATED CONDUITS, BOXES, PULL STRINGS, AND BACKBOXES REQUIRED FOR COMPLETE INSTALLATION.
4. PROVIDE POWER FEEDER AND ELECTRICAL ROUGH-IN FOR PREFABRICATED SECURITY STATION AS SHOWN. COORDINATE EXACT LOCATION, FEEDER SIZE, VOLTAGE, EQUIPMENT LOADS, HVAC REQUIREMENTS, LIGHTING REQUIREMENTS, AND SECURITY SYSTEM REQUIREMENTS WITH SECURITY VENDOR, ARCHITECT, AND PREFABRICATED BUILDING MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE ALL ASSOCIATED CONDUITS, CONDUCTORS, GROUNDING, AND CONNECTIONS REQUIRED FOR COMPLETE INSTALLATION.
5. PROVIDE (2) 1" UNDERGROUND CONDUITS FOR SLIDING GATE SYSTEM. ONE CONDUIT SHALL SERVE POWER AND ONE CONDUIT SHALL SERVE CONTROL, DATA, AND COMMUNICATION CABLING. CONTRACTOR SHALL VERIFY FINAL POWER, CONTROL, DATA, COMMUNICATION, SAFETY DEVICE, LOOP DETECTION, ACCESS CONTROL, AND EQUIPMENT REQUIREMENTS WITH GATE SYSTEM MANUFACTURER AND SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL CONDUITS, PULL BOXES, CONDUCTORS, AND ASSOCIATED INFRASTRUCTURE AS REQUIRED FOR COMPLETE INSTALLATION.
6. PROVIDE (2) 2" UNDERGROUND CONDUITS TO PREFABRICATED SECURITY STATION. ONE CONDUIT SHALL SERVE POWER AND ONE CONDUIT SHALL SERVE CONTROL, DATA, AND COMMUNICATION CABLING. CONTRACTOR SHALL VERIFY EXACT LOCATION, EQUIPMENT REQUIREMENTS, POWER REQUIREMENTS, LOW VOLTAGE REQUIREMENTS, AND INSTALLATION REQUIREMENTS WITH SECURITY VENDOR, MANUFACTURER, AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL CONDUITS, PULL BOXES, CONDUCTORS, AND ASSOCIATED INFRASTRUCTURE AS REQUIRED FOR COMPLETE INSTALLATION.
7. PROVIDE JUNCTION BOX AND CONDUIT ROUGH-IN FOR SECURITY CAMERA AS SHOWN. COORDINATE FINAL DEVICE REQUIREMENTS WITH SECURITY SYSTEM VENDOR.

ELECTRICAL SITE PLAN | 1/16" = 1'-0" | 01

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FOR

FONTANA CALIFORNIA

TITLE

ELECTRICAL SITE PLAN

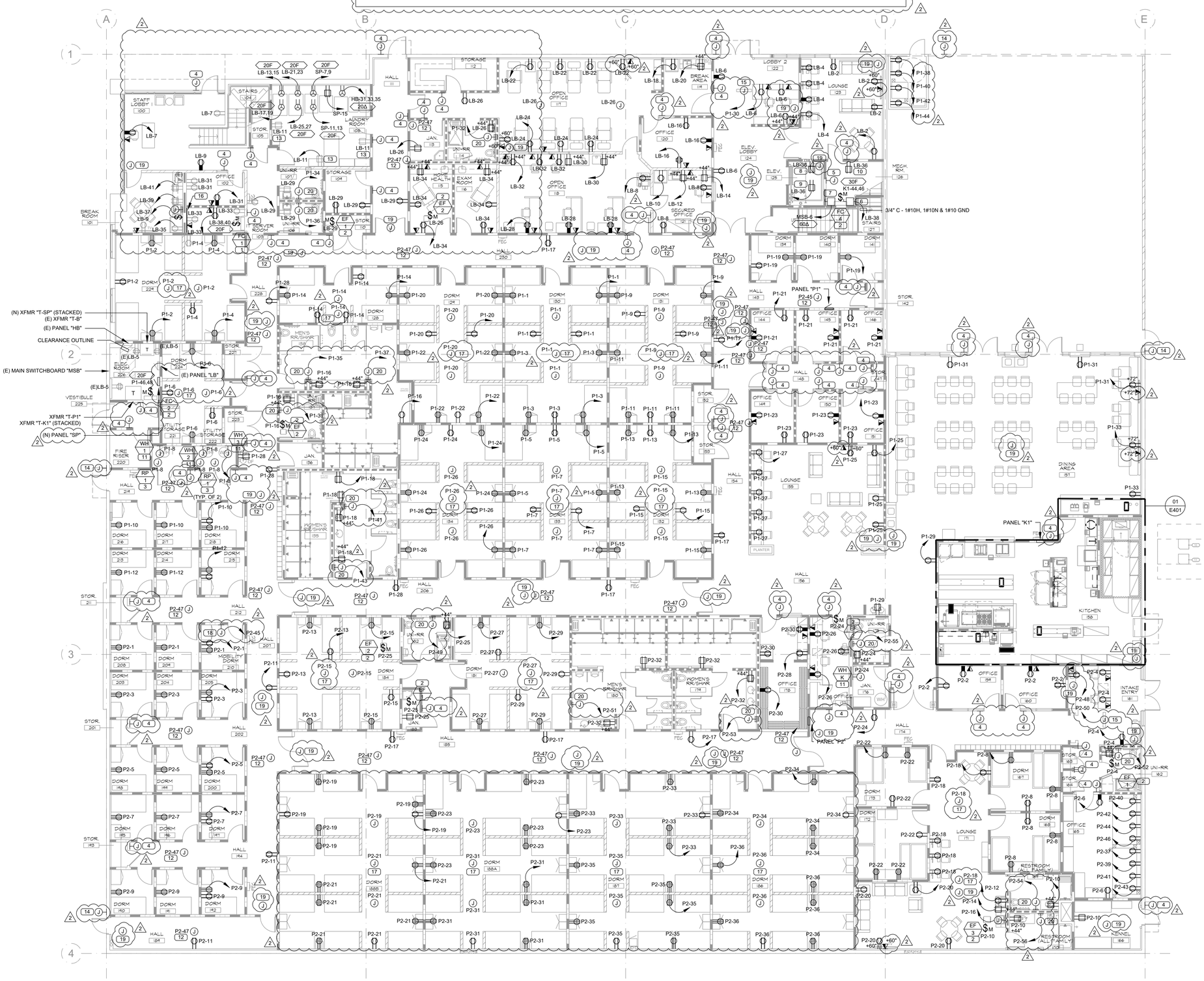
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Scale	AS NOTED

Sheet

E101

CONTRACTOR SHALL COORDINATE ALL LOW VOLTAGE SYSTEM REQUIREMENTS WITH ARCHITECT, SECURITY CONSULTANT, FIRE ALARM CONSULTANT, TELECOMMUNICATIONS PROVIDER, AND RESPECTIVE EQUIPMENT VENDORS. PROVIDE ALL REQUIRED JUNCTION BOXES, BACKBOXES, CONDUITS, PATHWAYS, POWER CONNECTIONS, CABLING SUPPORT, AND ASSOCIATED INFRASTRUCTURE REQUIRED FOR SECURITY, ACCESS CONTROL, CCTV, FIRE ALARM, TELE/DATA, WIRELESS ACCESS POINT, COMMUNICATION, AND OTHER LOW VOLTAGE SYSTEMS. VERIFY FINAL REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.



GENERAL NOTES

1. WIRING SHOWN TO REPRESENT 1#12H, 1#12N & 1#12GND UNLESS NOTED OTHERWISE BY PLAN NOTE, TICK MARKS OR FEEDER CALLOUT. PROVIDE SEPARATE NEUTRALS FOR ALL SINGLE-PHASE LOADS. MULTI-WIRE CIRCUITS SHARING NEUTRALS SHALL NOT BE UTILIZED.
2. ROUTE EXPOSED CONDUIT PARALLEL AND ORTHOGONAL TO THE STRUCTURAL MEMBERS, AND TIGHT TO STRUCTURE ABOVE TO MAXIMIZED CLEARANCE BELOW.
3. APPROXIMATE LOCATIONS TO INTERCEPT EXISTING CIRCUITS ARE SHOWN FROM RECORD DRAWINGS FOR REFERENCE ONLY, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF DEVICE OR JUNCTION BOX AND VERIFY BRANCH CIRCUITS.
4. DEVICE/RECEPTACLE LOCATIONS AND ELEVATIONS SHOWN FOR CIRCUITING AND GENERAL ARRANGEMENT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES, AND ADDITIONAL DETAILS PRIOR TO ROUGH IN.
5. PROVIDE GFCI TYPE RECEPTACLES WHERE RECEPTACLES ARE LOCATED ABOVE COUNTER OR BENCH TOP AND WITHIN 6' OF SINKS. RECEPTACLES SHALL BE MOUNTED MINIMUM OF 4" ABOVE COUNTER OR SINK.
6. NEW DEVICES SHALL BE FLUSH MOUNTED IN EXISTING WALLS. PROVIDE WALL CUTTING, PATCHING, AND PAINTING TO MATCH EXISTING. COORDINATE LOCATIONS AND WORK WITH ARCHITECTURAL PLANS.

PLAN CHECK PERFORMANCE NOTES

1. ALL RECEPTACLES IN WET AREAS SHALL BE OF THE GFCI TYPE. PER NEC ARTICLE 210.8B6 AND ARTICLE 406.9.
2. IN ALL AREAS SPECIFIED ALL NON-LOCKING TYPE 125VAC 15/20 AMPS RECEPTACLES SHALL BE LISTED AS "TAMPER RESISTANT" RECEPTACLE. AS PER NEC ARTICLE 406.12.
3. IN ALL AREAS SPECIFIED IN NEC ARTICLE 210.12 ALL RECEPTACLES SHALL BE LISTED AS AFCI.
4. ALL EQUIPMENT, WIRING, LIGHTING, ETC. INSTALLED IN DUCTS AND PLENUMS SHALL BE RATED ACCORDINGLY. AS PER CMC SECTION 602.2 AND CEC ARTICLE 300.22.

KEY NOTES (X)

1. PROVIDE MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH AND POWER CONNECTION TO BRANCH CIRCUIT AS SHOWN FOR INDOOR FAN COIL UNIT. UNIT TO RECEIVE POWER FROM CONDENSING UNIT LOCATED ON ROOF. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH AND POWER CONNECTION TO BRANCH CIRCUIT AS SHOWN FOR EXHAUST FAN. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH AND POWER CONNECTION TO BRANCH CIRCUIT AS SHOWN FOR RECIRCULATION PUMP. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH PLUMBING INSTALLER PRIOR TO ROUGH-IN.
4. PROVIDE 1/2" CONDUIT STUB FOR CARD READER DEVICE. COORDINATE FINAL LOCATION, BACKBOX REQUIREMENTS, AND CABLING WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
5. PROVIDE JUNCTION BOX FOR ELEVATOR CAB TELEPHONE CONNECTION. COORDINATE ROUTING WITH MANUFACTURER.
6. PROVIDE LOCKABLE 30A, 1-POLE NEMA 1 NON-RUSED DISCONNECT SWITCH CAPABLE OF BEING LOCKED "OFF" FOR ELEVATOR CAB LIGHT/POWER. VERIFY REQUIREMENTS WITH MANUFACTURER. PROVIDE ENGRAVED COVERPLATE STATING "ELEVATOR CAB LIGHTS".
7. PROVIDE 60A, 3-POLE, NEMA 1 DISCONNECT SWITCH WITH FUSES PER MANUFACTURER'S RECOMMENDATIONS FOR ELEVATOR MOTOR. COORDINATE LOCATION WITH MANUFACTURER AND CODE REQUIREMENTS. PROVIDE AUXILIARY CONTACTS (1.0/1NC) AND INTERCONNECT TO ELEVATOR LOWERING SYSTEM. REFER TO SINGLE LINE DIAGRAM ON SHEET E501 FOR ADDITIONAL INFORMATION.
8. PROVIDE DUPLEX GFCI RECEPTACLE MOUNTED HALFWAY UP ELEVATOR SHAFT WHERE REQUIRED BY MANUFACTURER AND CODE.
9. PROVIDE DUPLEX GFCI RECEPTACLE MOUNTED AT TOP OF ELEVATOR SHAFT WHERE REQUIRED BY MANUFACTURER AND CODE.
10. PROVIDE DUPLEX GFCI RECEPTACLE IN ELEVATOR MACHINE ROOM. LOCATE PER MANUFACTURER AND CODE REQUIREMENTS.
11. PROVIDE HARD WIRE CONNECTION TO WATER HEATER IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. COORDINATE WITH PLUMBING INSTALLER FOR EXACT LOCATION AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
12. PROVIDE CONNECTION TO FIRE SMOKE DAMPER IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. COORDINATE WITH MECHANICAL DRAWINGS AND INSTALLER THE EXACT LOCATION, QUANTITY AND ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
13. VERIFY EXISTING RECEPTACLES ARE GFCI PROTECTED. WHERE EXISTING RECEPTACLES ARE NOT PROVIDED WITH GFCI PROTECTION, REPLACE OR MODIFY AS REQUIRED TO PROVIDE CODE-COMPLIANT GFCI PROTECTION PER NEC/CEC 210.8(A). CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
14. PROVIDE 1/2" CONDUIT STUB FOR SECURITY DEVICE AS SHOWN. COORDINATE FINAL LOCATION, BACKBOX REQUIREMENTS, DEVICE REQUIREMENTS, AND CABLING WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
15. PROVIDE POWER CONNECTION AND ROUGH-IN FOR METAL DETECTOR SYSTEM AS SHOWN. COORDINATE FINAL LOCATION, POWER REQUIREMENTS, DEVICE CONFIGURATION, CONTROL REQUIREMENTS, DATA REQUIREMENTS, BACKBOX REQUIREMENTS, AND ALL INSTALLATION REQUIREMENTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. PROVIDE ALL ASSOCIATED CONDUITS, CONDUCTORS, AND CONNECTIONS REQUIRED FOR COMPLETE INSTALLATION.
16. PROVIDE 4'-0" WIDE x 8'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD TELECOMMUNICATIONS BACKBOARD AS SHOWN. COORDINATE FINAL LOCATION, SIZE, MOUNTING HEIGHT, AND INSTALLATION REQUIREMENTS WITH TELECOMMUNICATIONS DRAWINGS AND TELECOMMUNICATIONS VENDOR PRIOR TO INSTALLATION.
17. PROVIDE SOLATUBE DAYLIGHTING DEVICE COMPLETE WITH DAYLIGHT DIMMER. PROVIDE 120V BRANCH CIRCUIT CONNECTION AND CONTROL WIRING AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
18. PROVIDE JUNCTION BOX, POWER CONNECTION, AND CONDUIT ROUGH-IN FOR ASSISTIVE LISTENING SYSTEMS WHERE REQUIRED BY CBC 11B-219. COORDINATE FINAL EQUIPMENT LOCATIONS, POWER REQUIREMENTS, CABLING REQUIREMENTS, AND INSTALLATION REQUIREMENTS WITH ARCHITECT, OWNER, AND AV/LOW VOLTAGE CONSULTANT PRIOR TO ROUGH-IN.
19. PROVIDE JUNCTION BOX AND CONDUIT ROUGH-IN FOR SECURITY CAMERA AS SHOWN. COORDINATE FINAL DEVICE REQUIREMENTS WITH SECURITY SYSTEM VENDOR.
20. PROVIDE BRANCH CIRCUIT CONNECTION TO HAND DRYER. COORDINATE EXACT ELECTRICAL REQUIREMENTS, VOLTAGE, CIRCUIT BREAKER SIZE, WIRING, AND INSTALLATION REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGH-IN.

1ST FLOOR POWER PLAN | 1/8" = 1'-0" | 01

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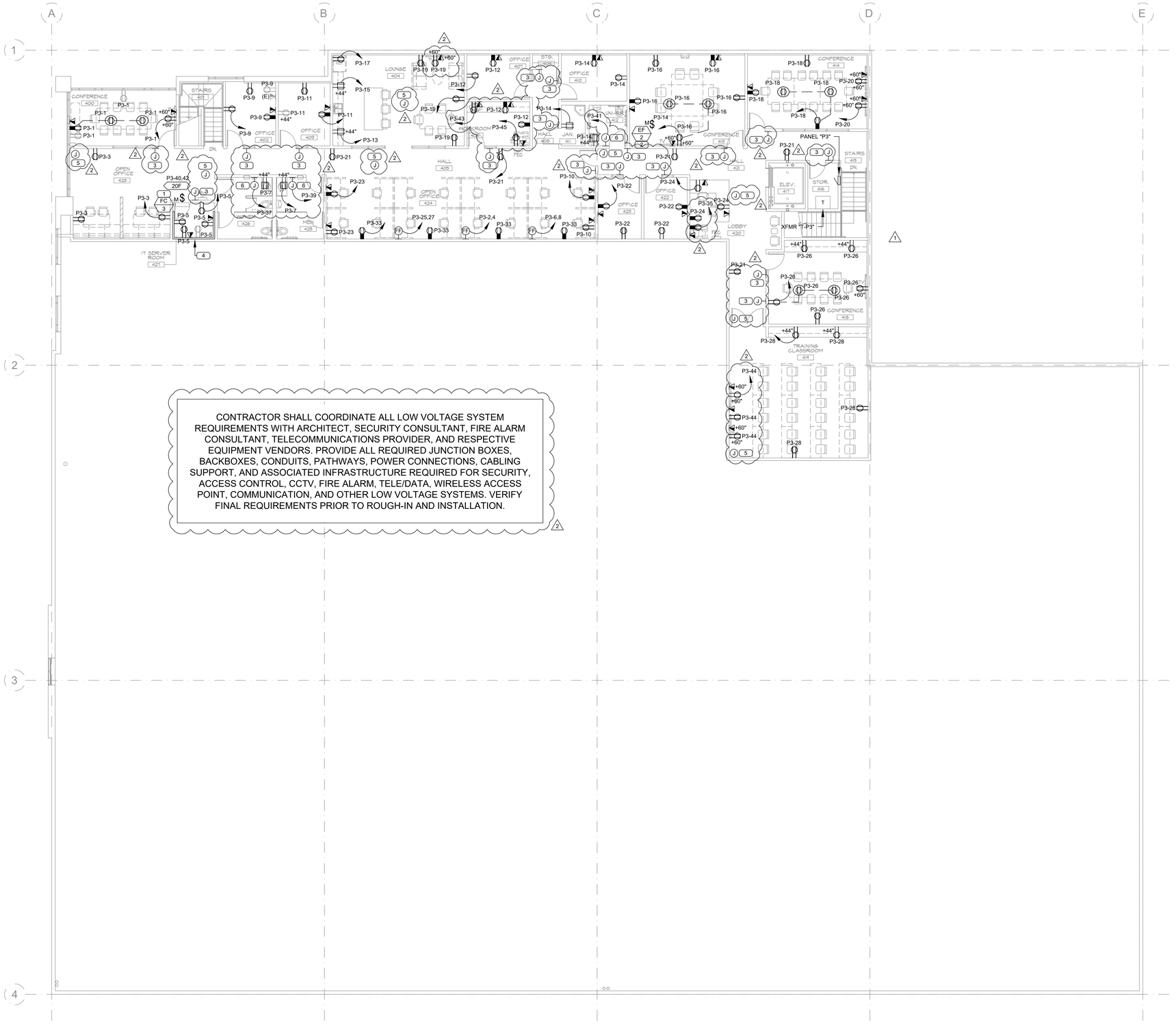
1ST FLOOR POWER PLAN

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1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
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Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E201



GENERAL NOTES

1. WIRING SHOWN TO REPRESENT 1#12H, 1#12N & 1#12GND UNLESS NOTED OTHERWISE BY PLAN NOTE, TICK MARKS OR FEEDER CALLOUT. PROVIDE SEPARATE NEUTRALS FOR ALL SINGLE-PHASE LOADS. MULTI-WIRE CIRCUITS SHARING NEUTRALS SHALL NOT BE UTILIZED.
2. ROUTE EXPOSED CONDUIT PARALLEL AND ORTHOGONAL TO THE STRUCTURAL MEMBERS, AND TIGHT TO STRUCTURE ABOVE TO MAXIMIZED CLEARANCE BELOW.
3. APPROXIMATE LOCATIONS TO INTERCEPT EXISTING CIRCUITS ARE SHOWN FROM RECORD DRAWINGS FOR REFERENCE ONLY, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF DEVICE OR JUNCTION BOX AND VERIFY BRANCH CIRCUITS.
4. DEVICE/RECEPTACLE LOCATIONS AND ELEVATIONS SHOWN FOR CIRCUITING AND GENERAL ARRANGEMENT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES, AND ADDITIONAL DETAILS PRIOR TO ROUGH IN.
5. PROVIDE GFCI TYPE RECEPTACLES WHERE RECEPTACLES ARE LOCATED ABOVE COUNTER OR BENCH TOP AND WITHIN 6' OF SINKS. RECEPTACLES SHALL BE MOUNTED MINIMUM OF 4" ABOVE COUNTER OR SINK.
6. NEW DEVICES SHALL BE FLUSH MOUNTED IN EXISTING WALLS. PROVIDE WALL CUTTING, PATCHING, AND PAINTING TO MATCH EXISTING. COORDINATE LOCATIONS AND WORK WITH ARCHITECTURAL PLANS.

PLAN CHECK PERFORMANCE NOTES

1. ALL RECEPTACLES IN WET AREAS SHALL BE OF THE GFCI TYPE. PER NEC ARTICLE 210.8B6 AND ARTICLE 406.9.
2. IN ALL AREAS SPECIFIED ALL NON-LOCKING TYPE 125VAC 15/20 AMPS RECEPTACLES SHALL BE LISTED AS "TAMPER RESISTANT" RECEPTACLE. AS PER NEC ARTICLE 406.12.
3. IN ALL AREAS SPECIFIED IN NEC ARTICLE 210.12 ALL RECEPTACLES SHALL BE LISTED AS AFCI.
4. ALL EQUIPMENT, WIRING, LIGHTING, ETC. INSTALLED IN DUCTS AND PLENUMS SHALL BE RATED ACCORDINGLY. AS PER CMC SECTION 602.2 AND CEC ARTICLE 300.22.

KEY NOTES (X)

1. PROVIDE MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH AND POWER CONNECTION TO BRANCH CIRCUIT AS SHOWN FOR INDOOR FAN COIL UNIT. UNIT TO RECEIVE POWER FROM CONDENSING UNIT LOCATED ON ROOF. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH AND POWER CONNECTION TO BRANCH CIRCUIT AS SHOWN FOR EXHAUST FAN. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE 1/2" CONDUIT STUB FOR CARD READER DEVICE. COORDINATE FINAL LOCATION, BACKBOX REQUIREMENTS, AND CABLING WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
4. PROVIDE 4'-0" WIDE x 8'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD TELECOMMUNICATIONS BACKBOARD AS SHOWN. PAINT TO MATCH ADJACENT WALL FINISH. COORDINATE FINAL LOCATION, SIZE, MOUNTING HEIGHT, AND INSTALLATION REQUIREMENTS WITH TELECOMMUNICATIONS DRAWINGS AND TELECOMMUNICATIONS VENDOR PRIOR TO INSTALLATION.
5. PROVIDE JUNCTION BOX AND CONDUIT ROUGH-IN FOR SECURITY CAMERA AS SHOWN. COORDINATE FINAL DEVICE REQUIREMENTS WITH SECURITY SYSTEM VENDOR.
6. PROVIDE BRANCH CIRCUIT CONNECTION TO HAND DRYER. COORDINATE EXACT ELECTRICAL REQUIREMENTS, VOLTAGE, CIRCUIT BREAKER SIZE, WIRING, AND INSTALLATION REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGH-IN.

2ND FLOOR POWER PLAN | 1/8" = 1'-0" | 01

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2ND FLOOR POWER PLAN

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E202

GENERAL NOTES

1. WIRING SHOWN TO REPRESENT 1#12H, 1#12N & 1#12GND UNLESS NOTED OTHERWISE BY PLAN NOTE, TICK MARKS OR FEEDER CALLOUT. PROVIDE SEPARATE NEUTRALS FOR ALL SINGLE-PHASE LOADS. MULTI-WIRE CIRCUITS SHARING NEUTRALS SHALL NOT BE UTILIZED.
2. ROUTE EXPOSED CONDUIT PARALLEL AND ORTHOGONAL TO THE STRUCTURAL MEMBERS, AND TIGHT TO STRUCTURE ABOVE TO MAXIMIZED CLEARANCE BELOW.
3. APPROXIMATE LOCATIONS TO INTERCEPT EXISTING CIRCUITS ARE SHOWN FROM RECORD DRAWINGS FOR REFERENCE ONLY, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF DEVICE OR JUNCTION BOX AND VERIFY BRANCH CIRCUITS.
4. DEVICE/RECEPTACLE LOCATIONS AND ELEVATIONS SHOWN FOR CIRCUITING AND GENERAL ARRANGEMENT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES, AND ADDITIONAL DETAILS PRIOR TO ROUGH IN.
5. PROVIDE GFCI TYPE RECEPTACLES WHERE RECEPTACLES ARE LOCATED ABOVE COUNTER OR BENCH TOP AND WITHIN 6' OF SINKS. RECEPTACLES SHALL BE MOUNTED MINIMUM OF 4" ABOVE COUNTER OR SINK.
6. NEW DEVICES SHALL BE FLUSH MOUNTED IN EXISTING WALLS. PROVIDE WALL CUTTING, PATCHING, AND PAINTING TO MATCH EXISTING. COORDINATE LOCATIONS AND WORK WITH ARCHITECTURAL PLANS.

KEY NOTES (X)

1. PROVIDE 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT. PROVIDE FUSES AS REQUIRED PER MANUFACTURER'S NAMEPLATE RATING. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABELING TO INCLUDE DEVICE NAME, UPSTREAM EQUIPMENT, VOLTAGE, PHASE AND AMPERAGE.
2. PROVIDE 30A, 480V, 3-POLE FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT POWER EXHAUST. PROVIDE FUSES AS REQUIRED PER MANUFACTURER'S NAMEPLATE RATING. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABELING TO INCLUDE DEVICE NAME, UPSTREAM EQUIPMENT, VOLTAGE, PHASE AND AMPERAGE.
3. PROVIDE 100A, 480V, 3-POLE FUSED DISCONNECT SWITCH FOR MECHANICAL DOAS UNIT. PROVIDE FUSES AS REQUIRED PER MANUFACTURER'S NAMEPLATE RATING. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABELING TO INCLUDE DEVICE NAME, UPSTREAM EQUIPMENT, VOLTAGE, PHASE AND AMPERAGE.
4. PROVIDE 30A, 208V, 3-POLE FUSED DISCONNECT SWITCH FOR EXHAUST FAN. PROVIDE FUSES AS REQUIRED PER MANUFACTURER'S NAMEPLATE RATING. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABELING TO INCLUDE DEVICE NAME, UPSTREAM EQUIPMENT, VOLTAGE, PHASE AND AMPERAGE.
5. PROVIDE MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH AND POWER CONNECTION TO BRANCH CIRCUIT AS SHOWN FOR EXHAUST FAN. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE PHENOLIC LABELING TO INCLUDE DEVICE NAME. UPSTREAM EQUIPMENT, VOLTAGE, PHASE AND AMPERAGE.
6. PROVIDE 30A, 208V, 2-POLE, NEMA 3R FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT. PROVIDE FUSES AS REQUIRED PER MANUFACTURER'S NAMEPLATE RATING. PROVIDE MINIMUM 3/4" CONDUIT ROUTED TO INDOOR UNIT FOR CONTROL WIRING. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. PROVIDE NEMA 3R, 84-CIRCUIT PANELBOARD FOR ROOFTOP INSTALLATION. MOUNT ON UNISTRUT FRAME OR STRUCTURAL SUPPORT STAND, ELEVATED ABOVE ROOF SURFACE TO MAINTAIN ROOF WARRANTY AND DRAINAGE. PROVIDE SEISMIC ANCHORAGE PER CBC REQUIREMENTS. MAINTAIN NEC REQUIRED WORKING CLEARANCES. USE WEATHERPROOF FITTINGS AND RAIN-TIGHT HUBS FOR ALL ROOFTOP PENETRATIONS. COORDINATE FINAL LOCATION AND SUPPORT DETAILS WITH STRUCTURAL AND ROOFING CONTRACTOR PRIOR TO INSTALLATION.
8. PROVIDE ROOFTOP MAINTENANCE RECEPTACLE PER CEC 210.63. RECEPTACLE SHALL BE GFCI-PROTECTED PER CEC 210.8(B) AND WEATHER-RESISTANT WITH IN-USE COVER (NEMA 3R). MOUNT ADJACENT TO ROOFTOP EQUIPMENT OR, IF LOCATED MID-ROOF, INSTALL ON UNISTRUT SUPPORT FRAME ELEVATED ABOVE ROOF SURFACE. COORDINATE FINAL LOCATION AND SUPPORT METHOD WITH MECHANICAL AND ROOFING CONTRACTOR PRIOR TO INSTALLATION.
9. PROVIDE 3/4" C FOR HVAC UNIT CONTROL WIRES DOWN TO THERMOSTAT LOCATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL DRAWINGS AND HVAC CONTRACTOR PRIOR TO INSTALLATION. (2)

ELECTRICAL ROOF PLAN | 1/8" = 1'-0" | 01

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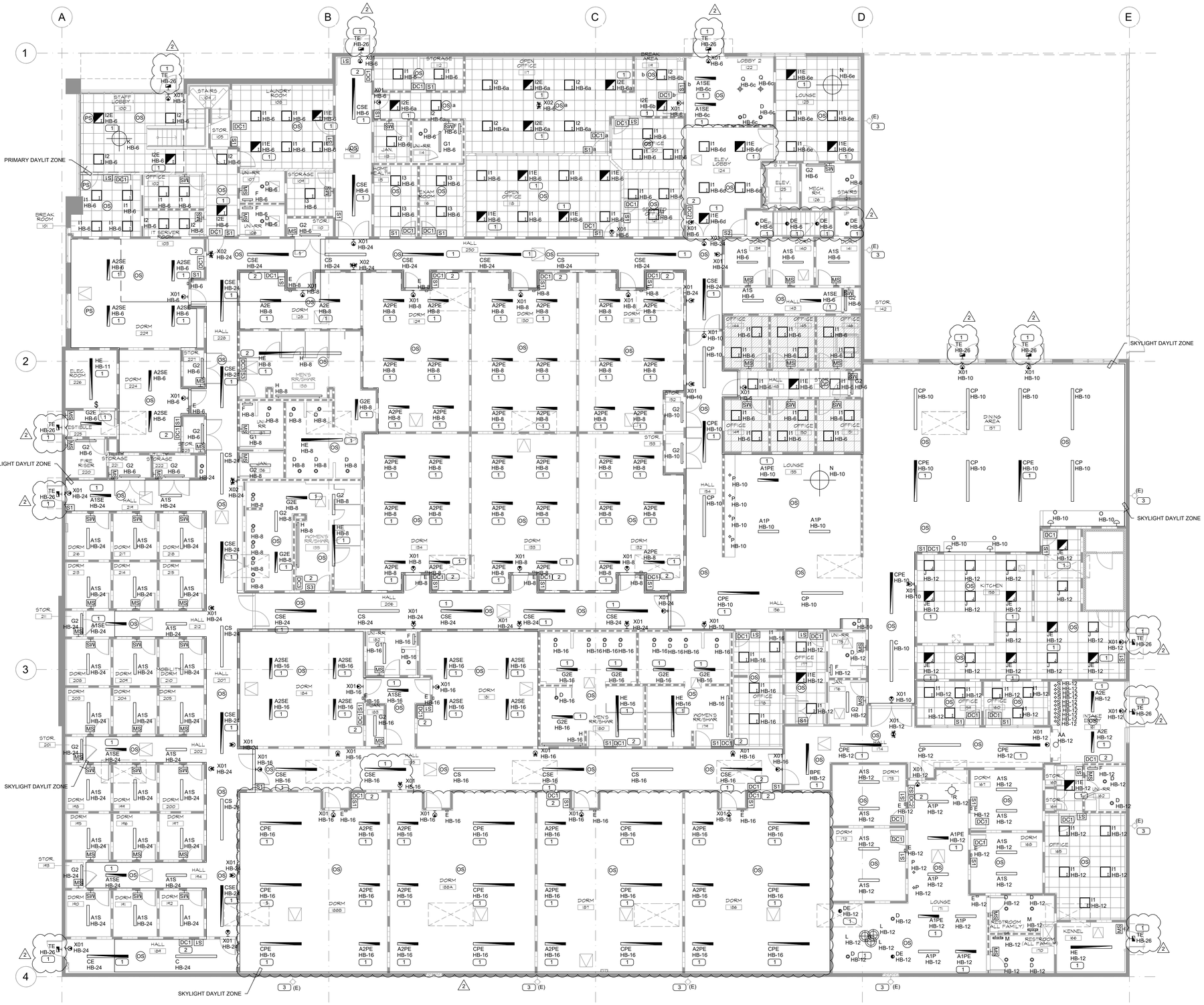
ELECTRICAL ROOF PLAN

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Scale	AS NOTED

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E211



GENERAL NOTES

1. WIRING SHOWN TO REPRESENT 1#12H, 1#12N & 1#12GND UNLESS NOTED OTHERWISE BY PLAN NOTE, TICK MARKS OR FEEDER CALLOUT. PROVIDE SEPARATE NEUTRALS FOR ALL SINGLE-PHASE LOADS. MULTI-WIRE CIRCUITS SHARING NEUTRALS SHALL NOT BE UTILIZED.
2. ROUTE EXPOSED CONDUIT PARALLEL AND ORTHOGONAL TO THE STRUCTURAL MEMBERS, AND TIGHT TO STRUCTURE ABOVE TO MAXIMIZED CLEARANCE BELOW.
3. REFER TO THE LIGHTING SEQUENCE OF OPERATIONS FOR MANUAL AND AUTOMATIC CONTROL OF LIGHTING FIXTURES BY AREA.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, FLOOR PLANS, AND ELEVATIONS FOR EXACT LIGHTING FIXTURE & CONTROL DEVICE LOCATIONS, CEILING TYPES AND MOUNTING HEIGHTS.

PLAN CHECK PERFORMANCE NOTES

1. ALL EQUIPMENT, WIRING, LIGHTING, ETC. INSTALLED IN DUCTS AND PLENUMS SHALL BE RATED ACCORDINGLY. AS PER CMC SECTION 602.2 AND CEC ARTICLE 300.22.

KEY NOTES (X)

1. LIGHTING FIXTURES SHOWN HATCHED ARE EQUIPPED WITH AN INTEGRAL BATTERY PACK CAPABLE OF PROVIDING MINIMUM 90 MINUTES OF EMERGENCY POWER. FIXTURE SHALL REMAIN SWITCHABLE UNDER NORMAL OPERATION AND SHALL SWITCH TO FULL BRIGHT UPON LOSS OF POWER.
2. MOUNT ROOM CONTROLLER HIGH ON WALL OR IN NEAREST ACCESSIBLE CEILING SPACE.
3. EXISTING LIGHT FIXTURES TO REMAIN IN PLACE. CONTRACTOR SHALL INSPECT THE FIXTURE AND TEST THE BATTERY PACKS, HAVE REFLECTORS AND LENSES CLEANED. REPAIR OR REPLACE BROKEN OR PARTS. RECHARGE BATTERIES AND REPLACE AS NEEDED TO ENSURE A COMPLETE AND OPERABLE LIGHTING SYSTEM.

△1

1ST FLOOR LIGHTING PLAN | 1/8" = 1'-0" | 01

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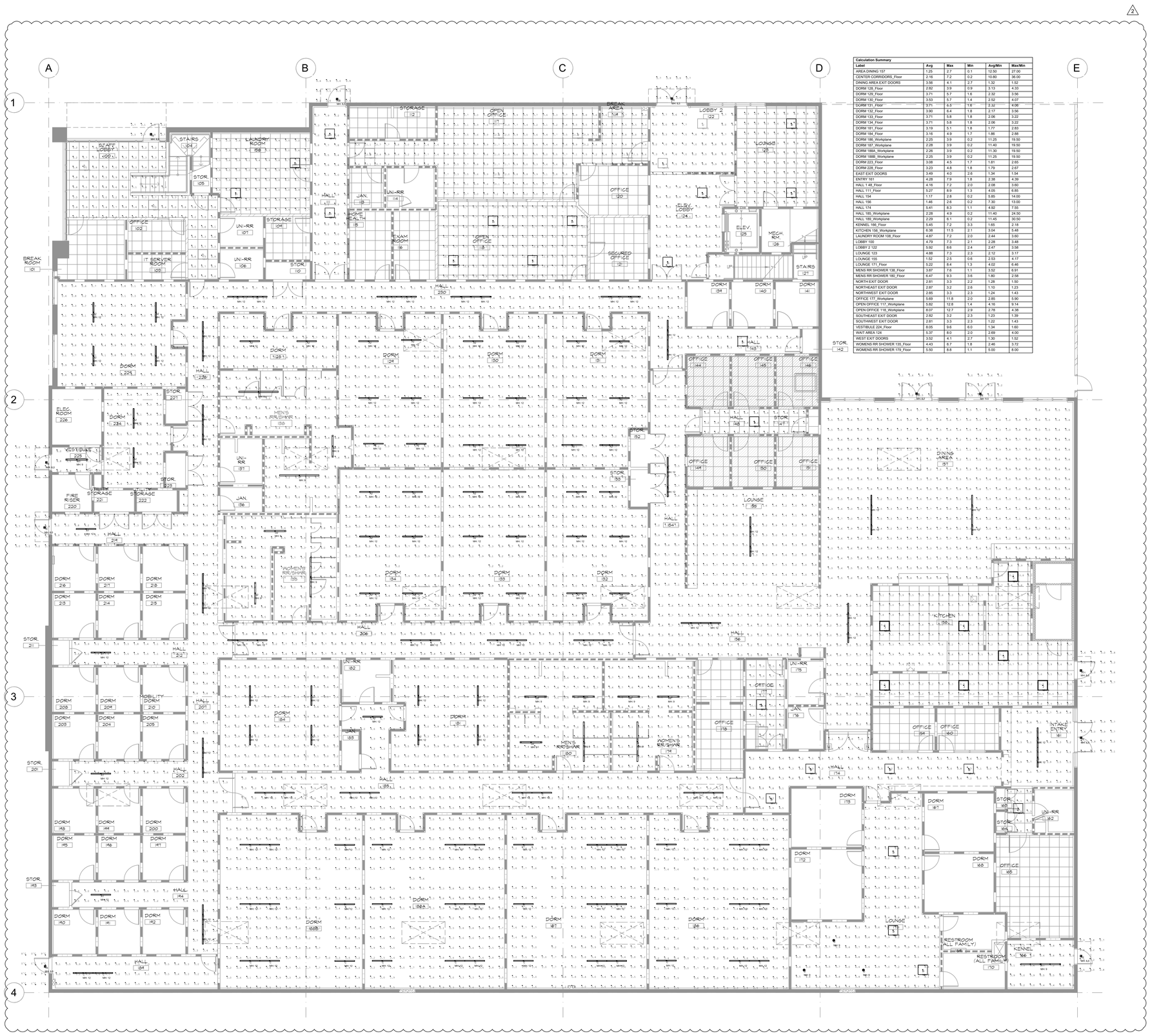
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LIGHTING PLAN

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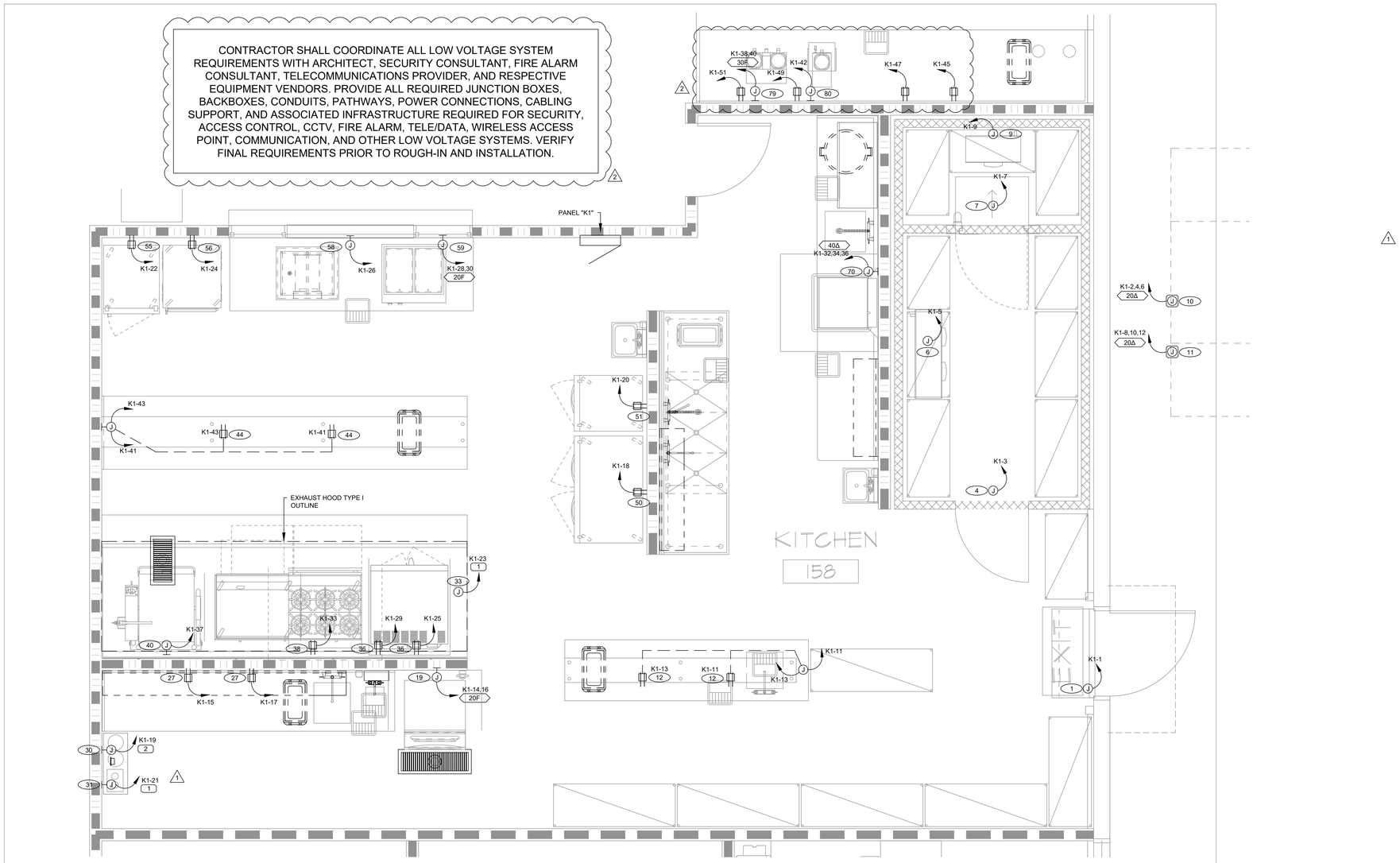
E301


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LAUNDRY ROOM 108
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KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ROUGH-IN	VOLTS	PHASE	AMPS	KVA	GFCI PROTECTION	ELECTRICAL REMARKS
1	1	AIR CURTAIN	MARS AIR SYSTEMS	STD236-1UA-OB	J-BOX	120	1	5.1	0.6	J-BOX	WIRE THRU DOOR ACTIVATED MIRCO-SWITCH
4	1	WALK-IN COOLER	KOLPAK	CUSTOM	J-BOX	120	1	5.0	0.6	J-BOX	WIRE THRU V.P. LIGHTS AND SWITCH
6	1	EVAPORATOR COIL (COOLER)	CUSTOM	REF	J-BOX	120	1	10.0	1.2	J-BOX	
7	1	WALK-IN FREEZER	KOLPAK	CUSTOM	J-BOX	120	1	10.0	1.2	J-BOX	WIRE THRU V.P. LIGHTS AND HEAT STRIPS
9	1	EVAPORATOR COIL (FREEZER)	CUSTOM	REF	J-BOX	120	1	10.0	1.2	J-BOX	
10	1	REMOTE CONDENSING UNIT	VERIFY	CUSTOM	J-BOX	208	3	12.5	4.5	J-BOX	
11	1	REMOTE CONDENSING UNIT	VERIFY	CUSTOM	J-BOX	208	3	12.5	4.5	J-BOX	
12	1	PREP TABLE W/ PREP SINK	CUSTOM	S/S FAB	DUPLEX	120	1	20.0	2.4	PLUG	(2) DEDICATED RECEPTACLES
19	1	ICE MAKER	MANITOWOC	IYT0900A	J-BOX	208	1	9.5	2.0	J-BOX	
27	1	PREP TABLE W/ PREP SINK	CUSTOM	S/S FAB	DUPLEX	120	1	20.0	2.4	PLUG	(2) DEDICATED RECEPTACLES
30	1	FIRE SUPPRESSION SYSTEM	CAPTIVE AIRE	CUSTOM	J-BOX	120	1	8.0	1.0	J-BOX	
31	1	EXHAUST HOOD CONTROL PANEL	CAPTIVE AIRE	CUSTOM	J-BOX	120	1	10.0	1.2	J-BOX	REFER TO EXHAUST HOOD SHOP DRAWINGS
33	1	EXHAUST HOOD (TYPE 1)	CAPTIVE AIRE	S/S FAB	J-BOX	120	1	5.0	0.6	J-BOX	WIRE THRU V.P. LIGHTS AND SWITCH
36	1	DOUBLE CONVECTION OVEN	GARLAND	MCO-GS-20M	DUPLEX	120	1	19.6	2.4	PLUG	REQ'S PER EACH DECK
38	1	REFRIGERATED BASE	TRUE	TRCB-72-HC	DUPLEX	120	1	9.9	1.2	PLUG	
40	1	TILT SKILLER	CLEVELAND RANGE	SGL-30-T1	J-BOX	120	1	6.0	0.7	J-BOX	
44	1	CHEF'S TABLE	CUSTOM	S/S FAB	DUPLEX	120	1	20.0	2.4	PLUG	(2) DEDICATED RECEPTACLES
50	1	REACH-IN REFRIGERATOR	TRUE	STA2R-2S-HC	DUPLEX	120	1	9.4	1.1	PLUG	
51	1	REACH-IN FREEZER	TRUE	STA1F-1S-HC	DUPLEX	120	1	6.0	0.7	PLUG	
55	1	REACH-IN REFRIGERATOR	TRUE	STA1R-1G-HC	DUPLEX	120	1	3.8	0.5	PLUG	
56	1	HOT HOLDING CABINET	METRO	C569-SDS-U	DUPLEX	120	1	16.7	2.0	PLUG	
58	1	DROP-IN COLD PAN	DELFIELD	N8130BP	J-BOX	120	1	2.0	0.2	J-BOX	
59	1	FOOD WELL	WELLS	MOD-200TDM	J-BOX	208	1	8.7	1.8	J-BOX	
70	1	HIGHT TEMP DISHWASHER	HOBART	CH-1	J-BOX	208	3	35.0	12.6	J-BOX	
79	1	AIR POT BREWER	FETCO	C53016	J-BOX	208	1	22.2	4.6	J-BOX	
80	1	I.T. BREWER	FETCO	M1221US-1A117-PM001	J-BOX	120	1	14.7	1.8	J-BOX	

CONTRACTOR SHALL COORDINATE ALL LOW VOLTAGE SYSTEM REQUIREMENTS WITH ARCHITECT, SECURITY CONSULTANT, FIRE ALARM CONSULTANT, TELECOMMUNICATIONS PROVIDER, AND RESPECTIVE EQUIPMENT VENDORS. PROVIDE ALL REQUIRED JUNCTION BOXES, BACKBOXES, CONDUITS, PATHWAYS, POWER CONNECTIONS, CABLING SUPPORT, AND ASSOCIATED INFRASTRUCTURE REQUIRED FOR SECURITY, ACCESS CONTROL, CCTV, FIRE ALARM, TELE/DATA, WIRELESS ACCESS POINT, COMMUNICATION, AND OTHER LOW VOLTAGE SYSTEMS. VERIFY FINAL REQUIREMENTS PRIOR TO ROUGH-IN AND INSTALLATION.



GENERAL NOTES

1. WIRING SHOWN TO REPRESENT 1#12H, 1#12N & 1#12GND UNLESS NOTED OTHERWISE BY PLAN NOTE, TICK MARKS OR FEEDER CALLOUT. PROVIDE SEPARATE NEUTRALS FOR ALL SINGLE-PHASE LOADS. MULTI-WIRE CIRCUITS SHARING NEUTRALS SHALL NOT BE UTILIZED.
2. ROUTE EXPOSED CONDUIT PARALLEL AND ORTHOGONAL TO THE STRUCTURAL MEMBERS, AND TIGHT TO STRUCTURE ABOVE TO MAXIMIZED CLEARANCE BELOW.
3. APPROXIMATE LOCATIONS TO INTERCEPT EXISTING CIRCUITS ARE SHOWN FROM RECORD DRAWINGS FOR REFERENCE ONLY, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF DEVICE OR JUNCTION BOX AND VERIFY BRANCH CIRCUITS.
4. DEVICE/RECEPTACLE LOCATIONS AND ELEVATIONS SHOWN FOR CIRCUITING AND GENERAL ARRANGEMENT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF DEVICES, AND ADDITIONAL DETAILS PRIOR TO ROUGH IN.
5. PROVIDE GFCI TYPE RECEPTACLES WHERE RECEPTACLES ARE LOCATED ABOVE COUNTER OR BENCH TOP AND WITHIN 6' OF SINKS. RECEPTACLES SHALL BE MOUNTED MINIMUM OF 4" ABOVE COUNTER OR SINK.
6. NEW DEVICES SHALL BE FLUSH MOUNTED IN EXISTING WALLS. PROVIDE WALL CUTTING, PATCHING, AND PAINTING TO MATCH EXISTING. COORDINATE LOCATIONS AND WORK WITH ARCHITECTURAL PLANS.
7. COMPLY WITH CEC 2025 ARTICLE 210.8.B: "ALL 125 VOLT THROUGH 250 VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE LOCATIONS LISTED IN 210.8.B.1 TO B12 SHALL HAVE GROUND GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL."

KEY NOTES (X)

1. PROVIDE POWER CONNECTION TO TYPE 1 HOOD CONTROL PANEL AS SHOWN. CONTROL PANEL SHALL SERVE EXHAUST FAN, MAKE-UP AIR UNIT, AND ASSOCIATED EQUIPMENT. COORDINATE EXACT LOCATION, MOUNTING HEIGHT, AND ELECTRICAL REQUIREMENTS WITH HOOD MANUFACTURER, MECHANICAL CONTRACTOR, AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE REQUIRED CONTROL WIRING AND INTERLOCKS BETWEEN HOOD CONTROL PANEL AND FIRE SUPPRESSION SYSTEM. INSTALL COMPLETE AND OPERATIONAL SYSTEM PER MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES.
2. PROVIDE JUNCTION BOX AND REQUIRED CONNECTIONS FOR TYPE 1 HOOD FIRE SUPPRESSION SYSTEM LOCATED ABOVE HOOD. COORDINATE EXACT CONNECTION REQUIREMENTS AND INTERFACE WITH HOOD CONTROL PANEL AND FIRE SUPPRESSION SYSTEM VENDOR. UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM, AUTOMATICALLY SHUT DOWN ASSOCIATED COOKING EQUIPMENT AND MAKE-UP AIR, AND MAINTAIN OR ACTIVATE EXHAUST FAN AS REQUIRED BY CODE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED PATHWAYS AND CONNECTIONS FOR COMPLETE SYSTEM.

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PROJECT

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FOR

FONTANA
CALIFORNIA

TITLE

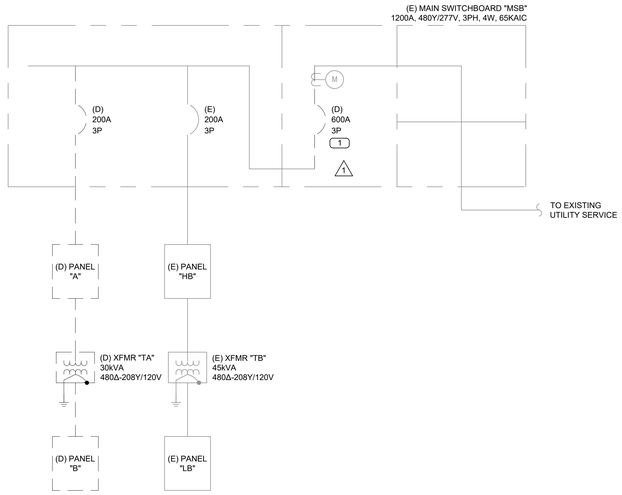
ENLARGED ELECTRICAL KITCHEN PLAN

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E401



GENERAL NOTES

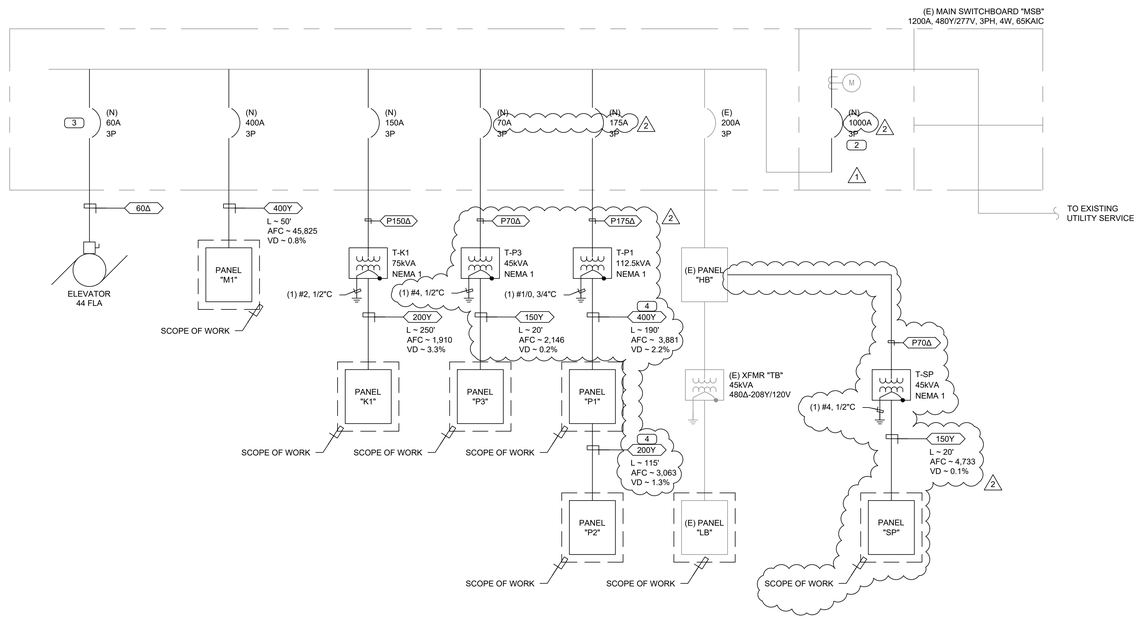
1. THE EXISTING ELECTRICAL SYSTEM REPRESENTED BY THE ONE LINE DIAGRAM IS INTENDED TO INDICATE THE GENERAL ARRANGEMENT OF A PORTION OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM. THIS INFORMATION IS SHOWN FOR REFERENCE ONLY. FIELD VERIFY EXISTING BUILDING ELECTRICAL DISTRIBUTION SYSTEM INFORMATION.
2. COORDINATE ANY/ALL NECESSARY POWER OUTAGES AFFECTING THE CONSTRUCTION TO THE FACILITY WITH THE ELECTRICAL UTILITY COMPANY, GENERAL CONTRACTOR AND OWNER. COORDINATE OUTAGES A MINIMUM OF 2 WEEKS PRIOR TO WHEN THE OUTAGE IS EXPECTED TO OCCUR.
3. FIELD VERIFY MCP AND VENDOR PROVIDED PANEL REQUIREMENTS PRIOR TO ORDERING ASSOCIATED CIRCUIT BREAKERS AND INSTALLING ASSOCIATED FEEDERS INCLUDING CONDUIT. CIRCUIT BREAKERS AND FEEDER SIZES SERVING MCP AND VENDOR PANELS ARE BASED ON INFORMATION PROVIDED AT THE TIME OF ISSUANCE OF THESE DOCUMENTS.
4. PROVIDE LABELING OF EXISTING PANELBOARDS ALTERED AS PART OF THE WORK OF THIS CONTRACT, PER THE REQUIREMENTS OF SPECIFICATIONS.
5. MATCH MAKE, MODEL, TYPE AND MAXIMUM AIC RATING OF CIRCUIT BREAKERS INSTALLED WITHIN THE EXISTING DISTRIBUTION AND BRANCH PANELBOARDS.
6. PROVIDE A COMPLETE TYPED PANELBOARD DIRECTORY IN EACH PANELBOARD TO INCLUDE EXISTING LOADS TO REMAIN AS WELL AS NEW LOADS. DIRECTORY TO INDICATE EQUIPMENT NAME AND/OR ROOM NUMBER OF EQUIPMENT OR DEVICES.
7. FIELD VERIFY SIZES AND QUANTITIES OF EXISTING FEEDERS TO BE INTERCEPTED AND EXTENDED. PROVIDE FEEDERS AS INDICATED IN THE FEEDER SCHEDULE. NOTIFY ENGINEER OF RECORD IF SIZES AND QUANTITIES DIFFER.

DEMO SINGLE LINE DIAGRAM **01**

MAIN SWITCHBOARD BOARD "MSB" LOAD SUMMARY

ELECTICAL DISTRIBUTION DESCRIPTIONS	TOTAL LOAD (kVA)	TOTAL AMPERAGE (A)
(E) PANEL "HB"	130.97	87.70
TRANSFORMER "T-P1"	105.58	192.70
TRANSFORMER "T-P3"	34.95	78.70
TRANSFORMER "T-K1"	69.14	166.60
PANEL "M1"	285.94	343.90
ELEVATOR	36.70	44.00
MAIN SWITCHBOARD "MSB" NET LOAD	**663.27**	**798.15**

2



NEW SINGLE LINE DIAGRAM **02**

KEY NOTES X

1. REMOVE EXISTING 600A MAIN DISCONNECT BREAKER WITHIN SWITCHGEAR SECTION. PREPARE SWITCHGEAR FOR INSTALLATION OF LARGER RATED MAIN BREAKER. COORDINATE EQUIPMENT COMPATIBILITY, BUS RATING, AND CLEARANCES WITH MANUFACTURER PRIOR TO MODIFICATION. 2
2. PROVIDE AND INSTALL 1000A MAIN BREAKER WITHIN EXISTING SWITCHGEAR FRAME. VERIFY SWITCHGEAR BUS RATING, SHORT-CIRCUIT CAPACITY, AND MECHANICAL FIT PRIOR TO INSTALLATION. COORDINATE WITH SWITCHGEAR MANUFACTURER FOR RETROFIT REQUIREMENTS.
3. PROVIDE SHUNT TRIP DEVICE FOR ELEVATOR FEEDER BREAKER IN ACCORDANCE WITH CEC 620.51(B), CBC REQUIREMENTS, AND ASME A17.1. SHUNT TRIP SHALL BE ACTIVATED BY FIRE ALARM SYSTEM PER NFPA 72. COORDINATE CONTROL VOLTAGE AND INTERFACE WITH FIRE ALARM CONTRACTOR PRIOR TO INSTALLATION.
4. FEEDER CONDUCTORS HAVE BEEN UPSIZED TO COMPENSATE FOR CIRCUIT LENGTH AND MAINTAIN VOLTAGE DROP WITHIN RECOMMENDED DESIGN LIMITS AT SERVED EQUIPMENT. 2

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SINGLE LINE DIAGRAM

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E501

Branch Panel: K1

Manufacturer: | Volts: 208/120 Wye | A.I.C Rating: 10K
Model: | Phases: 3 | Mains Type: 200A MCB
Dimensions: STD | Wires: 4 & Ground | Mains Rating: 225A
Supply From: XFMR "T-K1" | Panel Feed: Top | Location: KITCHEN
Enclosure NEMA 1 | Mounting: Surface | Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1	AIR CURTAIN #1	20A	1	612			1500			2			2	
	3	WALK IN COOLER #4	20A	1		575			1500		3	20A	REMOTE CONDENSING UNIT #10	4	
	5	EVAPORATOR COIL (COOLER) #6	20A	1			1200			1500				6	
	7	WALK IN FREEZER #7	20A	1	1150			1500						8	
	9	EVAPORATOR COIL (FREEZER) #9	20A	1		1200			1500		3	20A	REMOTE CONDENSING UNIT #11	10	
	11	PREP TABLE DED RECEPTACLE #12	20A	1			1000			1500				12	
	13	PREP TABLE DED RECEPTACLE #12	20A	1	1000			988						14	
	15	PREP TABLE DED RECEPTACLE #27	20A	1		1000			988		2	20A	ICE MAKER #19	16	
	17	PREP TABLE DED RECEPTACLE #27	20A	1			1000			680	1	20A	REACH IN REFRIGERATOR #50	18	
	19	FIRE SUPPRESSION SYSTEM #30	20A	1	960			690			1	20A	REACH IN FREEZER #51	20	
	21	EXHAUST HOOD CONTROL PANEL #31	20A	1		1200			437		1	20A	REACH IN REFRIGERATOR #55	22	
	23	EXHAUST HOOD #33	20A	1			600			1920	1	20A	HOT HOLDING CABINET #56	24	
	25	DBL CONV OVEN #36	20A	1	1176			240			1	20A	DROP IN COLD PAN #58	26	
	27	SHUNT TRIP (FOR ABOVE)				0			1240		2	20A	FOOD WELL #59	28	
	29	DBL CONV OVEN #36	20A	1			1176			1240				30	
	31	SHUNT TRIP (FOR ABOVE)			0			4200			3	40A	DISHWASHER HIGH TEMP #70	32	
	33	REFRIGERATED BASE #38	20A	1		1188			4200					34	
	35	SHUNT TRIP (FOR ABOVE)					0			4200				36	
	37	TILT SKILLET #40	20A	1	200			3050			2	30A	AIR POT BREWER #79	38	
	39	SHUNT TRIP (FOR ABOVE)				0			3050					40	
	41	CHEFS TABLE #44	20A	1			500			1740	1	20A	IT BREWER #80	42	
	43	CHEFS TABLE #44	20A	1	500			2560			2	30A	MECH ROOM 126 - FC-4/CU-4	44	2
	45	KITCHEN COUNTER RECEPT.	20A	1		1000			2560					46	
	47	KITCHEN COUNTER RECEPT.	20A	1			1000			516	1	20A	ROOFTOP - KEF-2	48	
	49	KITCHEN COUNTER RECEPT.	20A	1	1000			1800						50	
	51	KITCHEN COUNTER RECEPT.	20A	1		1000			1800		3	20A	ROOFTOP - KEF-1	52	
	53	SPACE					0			1800				54	
					Total Load:		23126VA		24438VA		21572VA				
					Total Amps:		192.7A		203.7A		179.8A				

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals	
Receptacle	0	>10000 @50%	0		
Largest Motor	5120	125%	6400	Total Conn. Load:	69136VA
Long Continuous	0	125%	0	Total Est. Demand:	50081VA
Kitchen/Break Room	58100	65%	37765	Total Conn.:	191.9A
HVAC	5916	100%	5916	Total Est. Demand:	139A
Misc.	0	100%	0		
Non Coincidental	0	0%	0		

NOTES:
1. PROVIDE HANDLE-TIES
2. NEW LOAD ON EXISTING CIRCUIT BREAKER
3. NEW CIRCUIT BREAKER, MATCH MAKE, MODEL, AND AIC RATING
4. RETURN EXISTING CIRCUIT BREAKER TO "SPARE"
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Branch Panel: (E)LB

Manufacturer: | Volts: 208/120 Wye | A.I.C Rating: 65K
Model: | Phases: 3 | Mains Type: 125A MCB
Dimensions: STD | Wires: 4 & Ground | Mains Rating: 225A
Supply From: (E) XFMR "TB" | Panel Feed: Top | Location: ELECTRIC ROOM 225
Enclosure NEMA 1 | Mounting: Surface | Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1	(E) SPRINKLER CONTROL	20A	1	500			1050			1	20A	LOUNGE 123 - TV & RECEPTS.	2	1
	3	(E) FIRE ALARM	20A	1		500			720		1	20A	LOUNGE 123 - RECEPTACLES	4	1
	5	(E) TELEPHONE BACKBOARD	20A	1			1080			1220	1	20A	LOBBY 122 & WAIT 124 - RECEPTS.	6	1
1	7	LOBBY 100 - RECEPTACLES	20A	1	360			540		2	1	20A	MED ROOM 121 - RECEPTACLES	8	1
1	9	HALL & BREAKROOM 101 - RECEPTS.	20A	1		360	2		1000		1	20A	MED ROOM 121 - FRIDGE	10	1
1	11	LAUNDRY 108 - RECEPTACLES	20A	1			540			180	1	20A	MED ROOM 121 - DED. RECEPT.	12	1
2	13	LAUNDRY 108 - 50LB WASHER STACK	20A	2	1560			180			1	20A	MED ROOM 121 - DED. RECEPT.	14	1
	15					1560			720		1	20A	OFFICE 120 - RECEPTACES	16	1
1	17	LAUNDRY 108 - 50LB DRYER STACK	20A	2			1040			1000	1	20A	BREAK AREA 119 - FRIDGE	18	1
	19				1040			1000			1	20A	BREAK AREA 119 - DED. RECEPT.	20	1
1	21	LAUNDRY 108 - 50LB WASHER STACK	20A	2		1560			720		1	20A	OPEN OFFICE 117 - RECEPTACLES	22	1
	23						1560			720	1	20A	OPEN OFFICE 117 - RECEPTACLES	24	1
2	25	LAUNDRY 108 - 50LB DRYER STACK	20A	2	1040			590	2		1	20A	RM 113,114,117 - EF-2 & RECEPTS.	26	1
	27					1040			1080		1	20A	OPEN OFFICE 118 - RECEPTACLES	28	1
1	29	RM 106,107,109,111 - EF-1 & RECEPTS.	20A	1			1050			360	1	20A	OPEN OFFICE 118 - RECEPTACLES	30	1
1	31	OFFICE 102 - RECEPTACLES	20A	1	540			540			1	20A	OPEN OFFICE 118 - RECEPTACLES	32	1
1	33	IT SERVER ROOM 103 - RECEPTS.	20A	1		540			1080		1	20A	ROOMS 115 & 115 - RECEPTACLES	34	1
2	35	BREAK ROOM 101 - FRIDGE	20A	1			1000			540	1	20A	ELEVATOR - GFCI RECEPTACLES	36	1
1	37	BREAK ROOM 101 - GARBAGE DISP.	20A	1	1000			1200			1	30A	ELEVATOR - CAB POWER	38	2
1	39	BREAK ROOM 101 - DED. RECEPT.	20A	1		1000			1248		2	20A	IT SERVER ROOM 103 - FC-1/CU-1	40	2
1	41	BREAK ROOM 101 - DED. RECEPT.	20A	1			1000			1248				42	
					A			B		C					
					Total Load:			11140VA		13128VA	12538VA				
					Total Amps:			92.8A		109.4A	104.5A				

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals	
Receptacle	0	>10000 @50%	0		
Largest Motor	2496	125%	3120	Total Conn. Load:	36806VA
Long Continuous	0	125%	0	Total Est. Demand:	34980VA
Kitchen/Break Room	7000	65%	4550	Total Conn.:	102.2A
HVAC	0	100%	0	Total Est. Demand:	97.1A
Misc.	27310	100%	27310		
Non Coincidental	0	0%	0		

NOTES:
1. NEW LOAD ON EXISTING CIRCUIT BREAKER
2. NEW CIRCUIT BREAKER, MATCH MAKE, MODEL, AND AIC RATING
3. RETURN EXISTING CIRCUIT BREAKER TO "SPARE"
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Branch Panel: (E)HB

Manufacturer: | Volts: 480/277 Wye | A.I.C Rating: 35K
Model: | Phases: 3 | Mains Type: 200A MCB
Dimensions: STD | Wires: 4 & Ground | Mains Rating: 225A
Supply From: MSB | Panel Feed: Top | Location: ELECTRIC ROOM 225
Enclosure NEMA 1 | Mounting: Surface | Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1					11140			4432		1	20A	(E) EXTERIOR LIGHTS	2	
2	3	(E) TRANSFORMER "TB" 45 KVA	70A	3		13128			4432		1	20A	(E) EXTERIOR LIGHTS	4	
	5						12538			3275	1	20A	1ST FLOOR LIGHTING NORTH	6	2
	7	(E) EXTERIOR LIGHTS	20A	1	4432			2710			1	20A	1ST FLOOR LIGHTING CENTER	8	3
	9	(E) EXIT SIGNS	20A	1		0			1916		1	20A	1ST FLOOR LIGHTING EAST	10	3
2	11	ELECTRIC ROOM LIGHTS	20A	1			55			2124	1	20A	1ST FLOOR LIGHTING SE	12	2
	13				0			2935			1	20A	(E) 2ND FLOOR LIGHTING	14	2
4	15	SPARE	30A	3		0			3638		1	20A	1ST FLOOR LIGHTING SOUTH	16	2
	17				0			0		0				18	
	19					0			0		3	40A	SPARE	20	4
4	21	SPARE	30A	3		0			0					22	
	23						0			3376	1	20A	1ST FLOOR LIGHTING WEST	24	3
	25	(E) SPACE			0			0					(E) SPACE	26	
	27	(E) SPACE				0			0				(E) SPACE	28	
	29	(E) SPACE					0			0			(E) SPACE	30	
	31				500			0					(E) SPACE	32	
2	33	LAUNDRY 108 - 30LB WASHER	20A	3		500			0				(E) SPACE	34	
	35						500			0			(E) SPACE	36	
	37				16936			0					(E) SPACE	38	
3	39	(N) TRANSFORMER "T-SP" 45 KVA	70A	3		15388			0				(E) SPACE	40	
	41						13548			0			(E) SPACE	42	
					A			B		C					
				Total Load:		43084.3VA		39002.2VA		35414.5VA					
				Total Amps:		155.5A		140.8A		127.9A					

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals	
Receptacle	0	>10000 @50%	0		
Largest Motor	0	125%	0	Total Conn. Load:	117501VA
Long Continuous	33323	125%	41654	Total Est. Demand:	125831.75VA
Kitchen/Break Room	0	65%	0	Total Conn.:	141.3A
HVAC	0	100%	0	Total Est. Demand:	151.4A
Misc.	84178	100%	84178		
Non Coincidental	0	0%	0		

NOTES:
1. PROVIDE HANDLE-TIES
2. NEW LOAD ON EXISTING CIRCUIT BREAKER
3. NEW CIRCUIT BREAKER, MATCH MAKE, MODEL, AND AIC RATING
4. RETURN EXISTING CIRCUIT BREAKER TO "SPARE"
5.
6.
7.
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Branch Panel: M1

Manufacturer: | Volts: 480/277 Wye | A.I.C Rating: 65K
Model: | Phases: 3 | Mains Type: 400A MCB
Dimensions: STD | Wires: 4 & Ground | Mains Rating: 400A
Supply From: (E) MSB | Panel Feed: Bottom | Location: ROOF MOUNTED
Enclosure NEMA 3R | Mounting: Surface | Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1				7202			2770						2	
	3	ROOFTOP - RTU-1	30A	3		7202			2770		3	20A	ROOFTOP - RTU-14	4	
	5						7202			2770				6	
	7				2244			2770						8	
	9	ROOFTOP - RTU-1 POWER EXHAUST	20A	3		2244			2770		3	20A	ROOFTOP - RTU-15	10	
	11						2244			2770				12	
	13				4155			2770						14	
	15	ROOFTOP - RTU-2	20A	3		4155			2770		3	20A	ROOFTOP - RTU-16	16	
	17						4155			2770				18	
	19				2770			2770						20	
	21	ROOFTOP - RTU-3	30A	3		2770			2770		3	20A	ROOFTOP - RTU-17	22	
	23						2770			2770				24	
	25				6925			2770						26	
	27	ROOFTOP - RTU-4	30A	3		6925			2770		3	20A	ROOFTOP - RTU-18	28	
	29						6925			2770				30	
	31				6925			3167						32	
	33	ROOFTOP - RTU-5	20A	3		6925			3167		3	20A	ROOFTOP - RTUs-2-5 POWER EXH.	34	
	35						6925			3167				36	
	37				4155			3167						38	
	39	ROOFTOP - RTU-6	20A	3		4155			3167		2551	20A	ROOFTOP - RTUs-6-9 POWER EXH.	40	
	41						4155			3167				42	
	43				4155			2551						44	
	45	ROOFTOP - RTU-7	20A	3		4155			2551		3	20A	ROOFTOP - RTUs-10-13 POWER EXH.	46	
	47						4155			2551				48	
	49				5263			2635						50	
	51	ROOFTOP - RTU-8	30A	3		5263			2635		3	20A	ROOFTOP - RTUs-14-18 POWER EXH.	52	
	53						5263			2635				54	
	55				2770			10637						56	
	57	ROOFTOP - RTU-9	20A	3		2770			10637		3	50A	ROOFTOP - DOAS-1	58	
	59						2770			10637				60	
	61				4432			0			3625	20A	SPARE	62	
	63	ROOFTOP - RTU-10	30A	3		4432			0		1	6925	SPARE	64	
	65						4432			0	1	20A	6925	66	
	67				2770			0			1	20A	SPARE	68	
	69	ROOFTOP - RTU-11	20A	3		2770			0		1	20A	SPARE	70	
	71						2770			0	1	20A	SPARE	72	
	73				2770			0					SPACE	74	
	75	ROOFTOP - RTU-12	20A	3		2770			0				SPACE	76	
	77						2770			0			SPACE	78	
	79				2770			0					SPACE	80	
	81	ROOFTOP - RTU-13	20A	3		2770			0				SPACE	82	
	83						2770			0			SPACE	84	
					A			B		C					
				Total Load:		95313VA		95313VA		95313VA					
				Total Amps:		344.1A		344.1A		344.1A					

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals	
Receptacle	0	>10000 @50%	0		
Largest Motor	0	125%	0	Total Conn. Load:	285939VA
Long Continuous	0	125%	0	Total Est. Demand:	285939VA
Kitchen/Break Room	0	65%	0	Total Conn.:	343.9A
HVAC	285939	100%	285939	Total Est. Demand:	343.9A
Misc.	0	100%	0		
Non Coincidental	0	0%	0		

NOTES:
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4. RETURN EXISTING CIRCUIT BREAKER TO "SPARE"
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Branch Panel: SP

Manufacturer: | Volts: 208/120 Wye | A.I.C Rating: 10K
Model: | Phases: 3 | Mains Type: 150A MCB
Dimensions: STD | Wires: 4 & Ground | Mains Rating: 225A
Supply From: XFMR "T-SP" | Panel Feed: Top | Location: ELECTRIC ROOM 225
Enclosure NEMA 1 | Mounting: Surface | Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1				7680			3328						2	
	3	PREFAB SECURITY STATION	80A	3		7680			3328		2	40A	EV CHARGER	4	
	5						7680			3328				6	
	7				1560			3328						8	
	9	LAUNDRY 108 - 30LB WASHER STACK	20A	2		1560			1500		2	40A	EV CHARGER	10	
	11						1040			1500				12	
	13				1040			0						14	
	15	LAUNDRY 108 - 30LB DRYER	20A	1		1320			0		2	30A	SLIDE GATE OPERATOR	16	
	17	SPARE	20A	1			0			0	1	20A	SPARE	18	
	19	SPARE	20A	1	0			0			1	20A	SPARE	20	
	21	SPARE	20A	1		0			0		1	20A	SPARE	22	
	23	SPARE	20A	1			0			0	1	20A	SPARE	24	
	25	SPARE	20A	1	0			0			1	20A	SPACE	26	
	27	SPARE	20A	1		0			0		1	20A	SPACE	28	
	29	SPARE	20A	1			0			0	1	20A	SPACE	30	
					A			B		C					
				Total Load:		16936VA		15388VA		13548VA					
				Total Amps:		141.1A		128.2A		112.9A					

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals	
Receptacle	0	>10000 @50%	0		
Largest Motor	0	125%	0	Total Conn. Load:	45872VA
Long Continuous	0	125%	0	Total Est. Demand:	45872VA
Kitchen/Break Room	0	65%	0	Total Conn.:	127.3A
HVAC	0	100%	0	Total Est. Demand:	127.3A
Misc.	45872	100%	45872		
Non Coincidental	0	0%	0		

NOTES:
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PROJECT

WESTEND NAVIGATION CENTER

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FONTANA, CALIFORNIA 92337

FOR

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TITLE

PANEL SCHEDULES

Revisions	By	Date
1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E601

Branch Panel: P3

Manufacturer:
Model:
Dimensions: STD
Supply From: XFMR "T-P3"
Enclosure NEMA 1

Volts: 208/120 Wye
Phases: 3
Wires: 4 & Ground
Panel Feed: Top
Mounting: Flush

A.I.C Rating: 10K
Mains Type: 150A MCB
Mains Rating: 225A
Location: STORAGE 416
Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1	CONFERENCE 400 - TV & RECEPTS.	20A	1	1080			860			1	20A	OPEN OFFICE 424 - WORK STATIONS	2	1
	3	OPEN OFFICE 428 - RECEPTACLES	20A	1		540			860		1	20A	OPEN OFFICE 424 - WORK STATIONS	4	1
	5	IT SERVER ROOM 427 - RECEPTACLES	20A	1			900			860	1	20A	OPEN OFFICE 424 - WORK STATIONS	6	1
	7	MEN 425 & WOMEN 426 - RECEPTS.	20A	1	360			860			1	20A	OPEN OFFICE 424 - WORK STATIONS	8	1
	9	OFFICE 402 - RECEPTACLES	20A	1		720			860		1	20A	OPEN OFFICE 424 - WORK STATIONS	10	
	11	OFFICE 403 - RECEPTACLES	20A	1			540			720	1	20A	ROOMS 406 & 407 - RECEPTACLES	12	
	13	LOUNGE 404 - DEDICATED RECEPT.	20A	1	1000			590			1	20A	RMs 410-412 - EF-2 & RECEPTACLES	14	
	15	LOUNGE 404 - DEDICATED RECEPT.	20A	1		1000			1260		1	20A	CONFERENCE 413 - RECEPTACLES	16	
	17	LOUNGE 404 - FRIDGE	20A	1			1000			900	1	20A	CONFERENCE 414 - RECEPTACLES	18	
	19	LOUNGE 404 - RECEPTACLES	20A	1	720			1000			1	20A	CONFERENCE 414 - TVs	20	
	21	HALL 405 & 421 - RECEPTACLES	20A	1		900			720		1	20A	OFFICES 422 & 423 - RECEPTACLES	22	
	23	OPEN OFFICE 424 - WORK STATIONS	20A	1			860			540	1	20A	LOBBY 420 - RECEPTACLES	24	
1	25	OPEN OFFICE 424 - WORK STATIONS	20A	1	860			1260			1	20A	CONFERENCE 418 - TV & RECEPTS.	26	
1	27	OPEN OFFICE 424 - WORK STATIONS	20A	1		860			720		1	20A	TRAINING ROOM 419 - RECEPTS.	28	
	29	ROOFTOP - MAINTENCE GFCIs	20A	1			900			180	1	20A	ROOFTOP - EF-4	30	
	31	ROOFTOP - MAINTENCE GFCIs	20A	1	900			342			1	20A	ROOFTOP - EF-5	32	
	33	OPEN OFFICE 424 CNTRL RECEPTS.	20A	1		720			342		1	20A	ROOFTOP - EF-6	34	
	35	LOBBY 420 - PRINTER	20A	1			1000			180	1	20A	ROOFTOP - EF-7	36	
	37	WOMEN 426 - HAND DRYER	20A	1	1500			156			1	20A	ROOFTOP - EF-8	38	
	39	MEN 425 - HAND DRYER	20A	1		1500			1248		2	20A	IT SERVER ROOM 427 - FC-3/CU-3	40	
	41	UNI RR 412 - HAND DRYER	20A	1			1500			1248				42	
	43	WORKROOM 406 - PRINTER	20A	1	1200			540			1	20A	TRAINING ROOM 419 - RECEPTS.	44	
	45	WORKROOM 406 - PRINTER	20A	1		1200			0		1	20A	SPARE	46	
	47	SPARE	20A	1			0			0	1	20A	SPARE	48	
	49	SPARE	20A	1	0			0			1	20A	SPARE	50	
	51	SPARE	20A	1		0			0		1	20A	SPARE	52	
	53	SPARE	20A	1			0			0	1	20A	SPARE	54	

	A	B	C
Total Load:	13228VA	13450VA	11328VA
Total Amps:	110.2A	112.1A	94.4A

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals
Receptacle	15270	>10000 @50%	12635	
Largest Motor	2496	125%	3120	Total Conn. Load: 38006VA
Long Continuous	0	125%	0	Total Est. Demand: 34945VA
Kitchen/Break Room	3000	65%	1950	Total Conn.: 105.5A
HVAC	1200	100%	1200	Total Est. Demand: 97A
Misc.	16040	100%	16040	
Non Coincidental	0	0%	0	

NOTES:
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2

Branch Panel: P2

Manufacturer:
Model:
Dimensions: STD
Supply From: PANEL "P1"
Enclosure NEMA 1

Volts: 208/120 Wye
Phases: 3
Wires: 4 & Ground
Panel Feed: Top
Mounting: Flush

A.I.C Rating: 10K
Mains Type: 175A MCB
Mains Rating: 225A
Location: HALL 174
Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1	DORMS 207-209 - RECEPTACLES	20A	1	720			720			1	20A	OFFICES 159 & 160 - RECEPTACLES	2	
	3	DORMS 203-205 - RECEPTACLES	20A	1		720			755		1	20A	ENTRY 161 & RR 162 - EF-1 & RECEPTS.	4	
	5	DORMS 198-200 - RECEPTACLES	20A	1			720			360	1	20A	OFFICE 165 - RECEPTACLES	6	
	7	DORMS 195-197 - RECEPTACLES	20A	1	720			1080			1	20A	DORMS 167 & 168 - RECEPTACLES	8	
	9	DORMS 190-192 - RECEPTACLES	20A	1		720			770		1	20A	RM 166,169,170 - EF-3 & RECEPTS.	10	
	11	HALLS 189 & 206 - RECEPTACLES	20A	1			540			1000	1	20A	LOUNGE 171 - FRIDGE	12	
	13	DORM 184 - RECEPTACLES	20A	1	720			1000			1	20A	LOUNGE 171 - DEDICATED RECEPT.	14	
	15	DORM 184 - RECEPTACLES	20A	1		600			1000		1	20A	LOUNGE 171 - GARBAGE DISPOSAL	16	
	17	HALL 185 - RECEPTACLES	20A	1			540			900	1	20A	LOUNGE 171 - RECEPTACLES	18	
	19	DORM 188 - RECEPTACLES	20A	1	1080			1040			1	20A	LOUNGE 171 - TV & RECEPTS.	20	
	21	DORM 188 - RECEPTACLES	20A	1		840			1080		1	20A	DORMS 172 & 173 - RECEPTACLES	22	
	23	DORM 188 - RECEPTACLES	20A	1			1080			430	1	20A	RR 175 & JAN 176 - EF2 & RECEPTS.	24	
	25	RR 182 & JAN 183 - EF-2 & RECEPTS.	20A	1	400			540			1	20A	OFFICE 177 - RECEPTACLES	26	
	27	DORM 181 - RECEPTACLES	20A	1		600			1000		1	20A	OFFICE 178 - FRIDGE	28	
	29	DORM 181 - RECEPTACLES	20A	1			720			540	1	20A	OFFICE 178 - RECEPTACLES	30	
	31	DORM 187 - RECEPTACLES	20A	1	1080			720			1	20A	RESTROOMS 179 & 180 - RECEPTS.	32	
	33	DORM 187 - RECEPTACLES	20A	1		840			1080		1	20A	DORM 186 - RECEPTACLES	34	
	35	DORM 187 - RECEPTACLES	20A	1			1080			840	1	20A	DORM 186 - RECEPTACLES	36	
	37	OFFICE 165 - HOTBOX DED. RECEPT.	20A	1	1500			1080			1	20A	DORM 186 - RECEPTACLES	38	
	39	OFFICE 165 - HOTBOX DED. RECEPT.	20A	1		1500			1500		1	20A	OFFICE 165 - HOTBOX DED. RECEPT.	40	
	41	OFFICE 165 - HOTBOX DED. RECEPT.	20A	1			1500			1500	1	20A	OFFICE 165 - HOTBOX DED. RECEPT.	42	
	43	OFFICE 165 - HOTBOX DED. RECEPT.	20A	1	1500			1500			1	20A	OFFICE 165 - HOTBOX DED. RECEPT.	44	
	45	MOBILITY 210 - ASSIS. LISTENING	20A	1		1200			1500		1	20A	OFFICE 165 - HOTBOX DED. RECEPT.	46	
	47	FIRE SMOKE DAMPERS	20A	1			1350			1200	1	20A	ENTRY 161 - PRINTER	48	
	49	UNI RR 182 - HAND DRYER	20A	1	1500			1500			1	20A	ENTRY 161 - METAL DETECTOR	50	
	51	MENS RR/SHWR 180 - HAND DRYER	20A	1		1500			1500		1	20A	UNI RR 161 - HAND DRYER	52	
	53	WOMENS RR 179 - HAND DRYER	20A	1			1500			1500	1	20A	RESTROOM 169 - HAND DRYER	54	
	55	UNI RR 175 - HAND DRYER	20A	1	1500			1500			1	20A	RESTROOM 170 - HAND DRYER	56	
	57	SPARE	20A	1		0			0		1	20A	SPARE	58	
	59	SPARE	20A	1			0			0	1	20A	SPARE	60	
	61	SPARE	20A	1	0			0			1	20A	SPARE	62	
	63	SPACE				0			0				SPACE	64	
	65	SPACE	20A	1			0			0	1	20A	SPARE	66	
	67	SPACE			0			0					SPACE	68	
	69	SPACE				0			0				SPACE	70	
	71	SPACE					0			0			SPACE	72	

Total Load:	21400VA	18705VA	17300VA
Total Amps:	178.3A	155.9A	144.2A

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals
Receptacle	0	>10000 @50%	0	
Largest Motor	0	125%	0	Total Conn. Load: 57405VA
Long Continuous	0	125%	0	Total Est. Demand: 56355VA
Kitchen/Break Room	3000	65%	1950	Total Conn.: 159.3A
HVAC	0	100%	0	Total Est. Demand: 156.4A
Misc.	54405	100%	54405	
Non Coincidental	0	0%	0	

NOTES:
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2

Branch Panel: P1

Manufacturer:
Model:
Dimensions: STD
Supply From: XFMR "T-P1"
Enclosure NEMA 1

Volts: 208/120 Wye
Phases: 3
Wires: 4 & Ground
Panel Feed: Top
Mounting: Flush

A.I.C Rating: 10K
Mains Type: 300A MCB
Mains Rating: 400A
Location: HALL 123
Note: Single Lug

Note	CKT	Circuit Description	Trip	Pole(s)	A	B	C	A	B	C	Pole(s)	Trip	Circuit Description	CKT	Note
	1	DORM 130 - RECEPTACLES	20A	1	840			600			1	20A	DORM 228 - RECEPTACLES	2	
	3	DORM 130 - RECEPTACLES	20A	1		900			720		1	20A	DORM 228 - RECEPTACLES	4	
	5	DORM 133 - RECEPTACLES	20A	1			900			780	1	20A	DORM 223 - RECEPTACLES	6	
	7	DORM 133 - RECEPTACLES	20A	1	840			1000			1	20A	STOR. 220 & 221 - RP-1s & WH 1-3	8	
	9	DORM 131 - RECEPTACLES	20A	1		840			720		1	20A	DORMS 215-217 - RECEPTACLES	10	
	11	DORM 131 - RECEPTACLES	20A	1			900			720	1	20A	DORMS 212-214 - RECEPTACLES	12	
	13	DORM 132 - RECEPTACLES	20A	1	900			960			1	20A	DORM 128 - RECEPTACLES	14	
	15	DORM 132 - RECEPTACLES	20A	1		840			610		1	20A	RRs 137 & 138 - EF-2 & RECEPTS.	16	
	17	HALLS 154,206,229 - RECEPTACLES	20A	1			720			720	1	20A	RESTROOM 135 - RECEPTACLES	18	
	19	OFFICES 139-141 - RECEPTACLES	20A	1	720			840			1	20A	DORM 129 - RECEPTACLES	20	
	21	OFFICES 144-146 - RECEPTACLES	20A	1		1080			900		1	20A	DORM 129 - RECEPTACLES	22	
	23	OFFICES 149-151 - RECEPTACLES	20A	1			1080			900	1	20A	DORM 134 - RECEPTACLES	24	
	25	LOUNGE 155 - TV & RECEPTACLES	20A	1	1040			840			1	20A	DORM 134 - RECEPTACLES	26	
	27	LOUNGE 155 - RECEPTACLES	20A	1		900			720		1	20A	HALL 206 & 227 - RECEPTACLES	28	
	29	HALL 156 - RECEPTACLES	20A	1			360			1500	1	20A	LOBBY 2 122 - METAL DETECTOR	30	
	31	AREA DINING 157 - TV & RECEPTS.	20A	1	860			1500			1	20A	UNI RR 114 - HAND DRYER	32	
	33	AREA DINING 157 - TV & RECEPTS.	20A	1		680			1500		1	20A	UNI RR 107 - HAND DRYER	34	
	35	MEN'S RR/SHWR 138 - HAND DRYER	20A	1			1500			1500	1	20A	UNI RR 106 - HAND DRYER	36	
	37	MEN'S RR/SHWR 138 - HAND DRYER	20A	1	1500			1500			1	20A	HOT BOX RECEPT	38	
	39	UNI RR 137 - HAND DRYER	20A	1		1500			1500		1	20A	HOT BOX RECEPT	40	
	41	WOMEN'S RR 135 - HAND DRYER	20A	1			1500			1500	1	20A	HOT BOX RECEPT	42	
	43	WOMEN'S RR 135 - HAND DRYER	20A	1	1500			1500			1	20A	HOT BOX RECEPT	44	
	45	SPARE	20A	1		0			1248		2	20A	ELEC ROOM 225 - FC-2/CU-2	46	
	47	SPARE	20A	1			0			1248				48	
	49	SPARE	20A	1	0			21400			3	175A	PANEL "P2"	50	
	51	SPARE	20A	1		0			18705					52	
	53	SPARE	20A	1			0			17300				54	

	A	B	C
Total Load:	38340VA	33363VA	33128VA
Total Amps:	319.5A	278A	276.1A

Load Classification	Connected Load	Demand Factor	Est. Demand	Panel Totals
Receptacle	0	>10000 @50%	0	
Largest Motor	3000	125%	3750	Total Conn. Load: 104831VA
Long Continuous	0	125%	0	Total Est. Demand: 105581VA
Kitchen/Break Room	0	65%	0	Total Conn.: 291A
HVAC	0	100%	0	Total Est. Demand: 293.1A
Misc.	101831	100%	101831	
Non Coincidental	0	0%	0	

NOTES:
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1 PC CORR1/BID ISSUE 1	LEI	4/29/26
2 PC CORR2 / ADD 2	LEI	6/12/26

Drawn	LEi
Date	02/13/2026
Project No.	LEI # 25039
Scale	AS NOTED

Sheet

E602