

TENANT IMPROVEMENT FOR POWER LIFE

940 NW PRYOR RD
LEE'S SUMMIT, MO 64081

2018 IBC CODE ANALYSIS

CODE REVIEW SUMMARY

The following is not intended to be an all inclusive list, but rather a general summary.
Code Referenced: 2018 INTERNATIONAL BUILDING CODE (IBC)

ACTUAL BUILDING SUMMARY: (Basis for Code Review)
Use & Occupancy Classification (Chapter 3):

A-3 ASSEMBLY - intended for worship, recreation, or amusement (Section 303)
Accessory religious educational rooms and religious auditoriums with occupant loads of less than 100 per room or space are not considered separate occupancies. Gymnasiums (without spectator seating).

Actual Tenant Improvement Area: 3,289 SF

Type of Construction (Chapter 6):

IB (Noncombustible Materials; No Rated Building Elements)

Fire Protection Systems (refer to Section 903 below): NFPA 13 AUTOMATIC SPRINKLER PROVIDED

Occupant Load (refer to Table 1004.1.2 below): 56 OCCUPANTS

CODE SUMMARY:

CHAPTER 8 - INTERIOR FINISHES

Interior wall & ceiling finish materials, including acoustical ceiling systems, shall be classified for allowable fire performance & smoke development as allowed by this code. (Section 803 & 808)

Interior floor finish & floor covering materials shall be classified in accordance with NFPA 253 & this code. (Section 804)

Decorative materials shall not exceed 10% of the wall or ceiling area to which they are attached.

Trim & wall base shall be classified for allowable accordance with the code. (Section 806)

CHAPTER 9 - FIRE PROTECTION SYSTEMS

Automatic Sprinkler Systems (Section 903): NFPA 13 SPRINKLER SYSTEM PROVIDED
A-3 fire area exceeds 12,000sf or occupant load of 300 or more (Section 903.2.1.2)

Portable Fire Extinguishers (Section 906 & refers to IFC Table 906.1): EXTINGUISHERS REQUIRED
Class A Fire Hazards: Max. travel distance <75' (Table 906.3(1)).

CHAPTER 10 - MEANS OF EGRESS

Occupant Load (Table 1004.1.2):

Business - 700 sf / 150 gsf = 5 Occupants

Exercise - 1,686 sf / 50 gsf = 34 Occupants

Locker - 800 sf / 50 gsf = 16 Occupants

Mechanical - 103 sf / 300 gsf = 1 Occupants

56 TOTAL OCCUPANTS

Means of Egress Sizing (Section 1005): only the occupant load of each story individually other components: 56 Occ. x 0.2" = 11.2" (32" Clear Min). REQUIRED; PROVIDED: 72"

Number of Exits & Exit Access Doorways (Section 1006):

Exit components include exit discharge, interior or exterior exit stairways or ramps, exit passageways or horizontal exits. Exit Access Doorway where the path of egress enters an intervening room, corridor, exit access stairway or ramp.

Egress based on occupant load (Section & Table 1006.2.1): 2 EXITS REQUIRED

Exit & exit access doorway configuration (Section 1007):

2 exits or exit access door ways (Section 1007.1.1): >1/3 DIAGONAL OF AREA SEPARATION

ACCESSIBLE MEANS OF EGRESS (SECTION 1009)

Accessible means of egress required (Section 1009.1): REQUIRED: 2 PROVIDED: 2

Exit Access Travel Distance (Section & Table 1012.2): A < 250'

Corridor Fire-Resistance Rating (Section & Table 1020.1): A occupant load served by corridor Greater than 30 = NO RATING REQUIRED

Corridor Minimum Width (Table 1020.2): Any facility not listed = 44"; With an occupant load of less than 50 = 36"; Within a dwelling unit = 36".

CHAPTER 11 - ACCESSIBILITY

Accessible Entrances (Section 1105): PUBLIC ACCESSIBLE ENTRANCE & RESTRICTED ACCESSIBLE ENTRANCE REQUIRED & PROVIDED

In addition to others required below, at least 80% of all public entrances shall be accessible; Where restricted entrances are provided, at least 1 restricted entrance shall be accessible; f a service entrance is the only entrance to a building or a tenant space, that entrance shall be accessible.

Accessible Toilet & Bathing Facilities (Section 1109.2): ACCESSIBLE FACILITIES

REQUIRED & PROVIDED

Each toilet room shall be accessible.

In addition to others required below, at least one of each type of fixture, element, control or dispenser in each accessible toilet room shall be accessible

Accessible Drinking Fountains (Section 1109.5): ACCESSIBLE DRINKING FOUNTAINS

REQUIRED & PROVIDED

Where drinking fountains are provided, no fewer than 2 shall be provided. 1 shall comply with the requirements for people who use a wheelchair & 1 shall comply with the requirements for standing persons.

Accessible Storage (Section 1109.9): ACCESSIBLE STORAGE REQUIRED & PROVIDED

Where fixed or built-in storage elements such as cabinets, coat hooks, shelves, medicine cabinets, lockers, closets & drawers are provided in required accessible spaces, at least 5%, but not less than 1 of each type, shall be accessible.

Accessible Seating (Or Standing) At Tables, Counters & Work Spaces (Section 1109.11):

ACCESSIBLE TABLES, COUNTERS & WORK SPACES REQUIRED & PROVIDED

Where seating or standing space at fixed or built-in tables, counters or work surfaces is provided in accessible space, at least 5%, but not less than 1 of each type, shall be accessible.

Accessible Controls, Operating Mechanisms & Hardware (Section 1109.13): ACCESSIBLE

CONTROLS, OPERATING MECHANISMS & HARDWARE REQUIRED & PROVIDED

Controls, operating mechanisms & hardware intended for operation of by the occupant, including switches that control lighting & ventilation & electrical convenience outlets, in accessible spaces, along accessible routes or as parts of accessible elements shall be accessible.

PLUMBING FIXTURE REQS

Code Referenced: 2018 INTERNATIONAL PLUMBING CODE (IPC)

Classification & Use Group: A-3

Number of Occupants: 56 TOTAL - 28 MALE; 28 FEMALE

Minimum Number of Required Plumbing Fixtures (Table 403.1):

WATER CLOSETS REQUIRED: MALE - 1; FEMALE - 1

WATER CLOSETS PROVIDED: MALE - 2; FEMALE - 2

LAVATORIES REQUIRED: MALE - 1; FEMALE - 1

LAVATORIES PROVIDED: MALE - 2; FEMALE - 2

DRINKING FOUNTAINS REQUIRED: 1 - Shall install 2- HI & Low or 1 that complies for people who use a wheelchair and standing person (Section 1109.5.1)

DRINKING FOUNTAINS PROVIDED: 1 - HI & Low or 1 that complies with both requirements

SERVICE SINKS REQUIRED: 1

SERVICE SINKS PROVIDED: 1

APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE (IBC)

STATE MECHANICAL CODE (BASED ON THE 2018 INTERNATIONAL MECHANICAL CODE)

2018 NATIONAL FUEL GAS CODE (NFPA 54)

2018 INTERNATIONAL FIRE CODE (IFC)

2017 NATIONAL ELECTRICAL CODE (NFPA 70)

STATE PLUMBING CODE (BASED ON THE 2018 UNIFORM PLUMBING CODE)

2009 ICC/ANSI A117.1 ACCESSIBILITY

CLIENT

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GENERAL CONTRACTOR

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JURISDICTION

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Development Services

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GENERAL NOTES:

1. THESE DOCUMENTS & THE DESIGN THEY REPRESENT ARE THE PROPERTY OF SIMONSON & ASSOCIATES ARCHITECTS LLC. NO CHANGES TO THESE DOCUMENTS EITHER IN WHOLE OR IN PART MAY BE MADE IN ANY WAY WITHOUT THEIR PRIOR KNOWLEDGE & WRITTEN CONSENT.

2. REFER TO ADDITIONAL NOTES AND LEGENDS ON ALL OTHER DOCUMENTS.

3. REFER TO CIVIL, GEOTECHNICAL, ENVIRONMENTAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, MECHANICAL, ELECTRICAL, COMMUNICATIONS, ELECTRONIC SAFETY & SECURITY DOCUMENTS FOR ADDITIONAL INFORMATION OR REQUIREMENTS. REFERENCE TO OTHER DISCIPLINES IS CONCEPTUAL FOR PURPOSES OF COORDINATION WITH ARCHITECTURAL DESIGN ONLY.

4. BEFORE COMMENCEMENT OF ANY WORK, CONTRACTOR SHALL GIVE ALL NOTICES AND OBTAIN ALL PERMITS. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES, REGULATIONS, REQUIREMENTS OF GOVERNING AGENCIES AND AUTHORITIES, HAZARDOUS MATERIAL APPLICATION AND DISPOSAL REQUIREMENTS, ETC.

5. THE ADA OR ADAAG IS A CIVIL RIGHTS ACT AND IS SUBJECT TO LEGAL INTERPRETATION THROUGH THE JUDICIAL PROCESS. REASONABLE CARE WAS EXERCISED IN INTERPRETING THE GUIDELINES AND ALL GUIDELINES MAY NOT BE INDICATED ON THESE PLANS. HOWEVER, FAILURE TO IDENTIFY A GUIDELINE DOES NOT GIVE THIS CONTRACTOR THE RIGHT TO VIOLATE THEM. THE CONTRACTOR MUST COMPLY WITH ALL GUIDELINES AS REQUIRED BY THE ADAAG.

6. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT. AT TIME OF SUBSTANTIAL COMPLETION, THE INTENT OF THE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. UNLESS OTHERWISE NOTED, THEY DO NOT REPRESENT THE MEANS AND METHODS OF CONSTRUCTION. SEQUENCING AND MEANS AND METHODS OF CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

7. THESE DRAWINGS DO NOT CONTAIN INFORMATION WITH REGARD TO CONSTRUCTION SAFETY PROCEDURES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION SAFETY AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH GOVERNING AUTHORITIES CONSTRUCTION SAFETY GUIDELINES.

8. PROVIDE COMPLETE IN PLACE ALL LABOR, TRANSPORTATION, MATERIAL TAXES, FEES, PERMITS, LICENSES, INSURANCE, UTILITIES, INSPECTIONS, EQUIPMENT, MACHINERY, SUPERVISION, AND OTHER ITEMS NECESSARY TO COMPLETE THE WORK IN STRICT COMPLIANCE WITH THE PLANS, DOCUMENTS AND SPECIFICATIONS PREPARED BY THE ARCHITECT AND APPROVED BY THE OWNER.

9. VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION AND PRIOR TO PROCEEDING WITH THE WORK, AND NOTIFY THE ARCHITECT IMMEDIATELY OF SIGNIFICANT DISCREPANCIES WHICH MAY IMPACT AESTHETICS, DURABILITY, COST AND/OR SCHEDULES.

10. DO NOT SCALE DRAWINGS IN ORDER TO DETERMINE INTENDED LAYOUT OR DIMENSIONS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION BEFORE CONTINUING WITH WORK. DRAWINGS ARE INTENDED ONLY AS A GRAPHICALLY CORRECT REPRESENTATION OF WORK TO BE ACCOMPLISHED.

11. THE CONTRACTOR SHALL PROTECT ALL EXISTING ENTITIES. REMOVE, REPLACE OR REPAIR MATERIALS, FACILITIES AND SERVICES DAMAGED DURING THE COURSE OF CONSTRUCTION TO THE SATISFACTION OF THE OWNER AND GOVERNING AUTHORITY.

12. ALL WORK SHALL BE OF GOOD QUALITY AND ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM DEFECTS FOR A PERIOD OF 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF WORK. ANY EXTENDED WARRANTIES OBTAINED FROM SUPPLIERS OR SUBCONTRACTORS SHALL BE FORWARDED TO THE OWNER.

13. ALL REQUIREMENTS NOT FOLLOWED, INCLUDING SUBSTITUTIONS NOT PROPERLY APPROVED AND AUTHORIZED, IN WRITING, MAY BE CONSIDERED DEFECTIVE.

14. FAILURE TO IDENTIFY A STANDARD, RECOMMENDATION &/OR REQUIREMENT DOES NOT GIVE ANYONE THE RIGHT TO VIOLATE ANY CODE & GOVERNING AUTHORITY REQUIREMENTS, MINIMUM QUALITY OR QUANTITY REQUIRED, ASTM & OTHER INDUSTRY STANDARDS, MANUFACTURER RECOMMENDATIONS & REQUIREMENTS, ETC.

15. COMPLY WITH ALL WEATHER-RELATED CONSTRUCTION REQUIREMENTS. DO NOT BUILD WITH OR ON FROZEN, SATURATED, CONTAMINATED OR INAPPROPRIATE SUBSTRATES OR CONDITIONS. BUILD OVER DRY COMPACTED APPROVED GRADE WITH APPROVED APPROPRIATE MATERIALS.

16. PROVIDE POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM AND OFF ALL BUILDINGS WITHOUT PONDING OR WATER ADJACENT TO OR ON BUILDINGS OR PAVEMENTS.

17. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA AND SAMPLES, THE GENERAL CONTRACTOR AND SUB-CONTRACTOR HAS VERIFIED AND APPROVED THE INFORMATION CONTAINED WITHIN. THE GENERAL CONTRACTOR'S REVIEW AND APPROVAL SHALL BE SHOWN ON EACH SUBMITTAL PRIOR TO THE SUBMISSION TO THE ARCHITECT.

18. THE GENERAL CONTRACTOR SHALL FORWARD TO SUBCONTRACTORS & SUPPLIERS, FULL SETS OF BIDDING &/OR CONSTRUCTION DOCUMENTS, INCLUDING, BUT NOT LIMITED TO, DRAWINGS, SPECIFICATIONS, ADDENDA, CLARIFICATIONS, BID FORMS, & ALL OTHER DOCUMENTATION ISSUED BY ARCHITECT & ARCHITECT'S CONSULTANTS TOWARD CONVEYING A COMPLETE & TIMELY PROJECT.

INDEX OF DRAWINGS

ARCHITECTURAL

G-000 COVER SHEET
G-001 SPECIFICATION NOTES
G-011 ACCESSIBILITY REQUIREMENTS & GUIDELINES
A-101 FLOOR PLAN
A-121 REFLECTED CEILING PLAN
A-401 RESTROOM PLANS
A-701 INTERIOR FINISHES
A-711 INTERIOR ELEVATIONS
A-712 INTERIOR ELEVATIONS
A-713 INTERIOR ELEVATIONS
A-714 INTERIOR ELEVATIONS & DETAILS

SPECIFICATION MANUAL

Not Provided - All Specification Notes included on drawings.

DOCUMENTS BY OTHERS

FIRE SUPPRESSION

(Refer to these design documents under separate cover.)

PLUMBING

(Refer to these design documents under separate cover.)

HEATING, VENTILATING, & AIR CONDITIONING

(Refer to these design documents under separate cover.)

ELECTRICAL

(Refer to these design documents under separate cover.)

COMMUNICATIONS

(Refer to these design documents under separate cover.)

ELECTRONIC SAFETY & SECURITY

(Refer to these design documents under separate cover.)

IMPORTANT DESIGN SCOPE NOTE:

Simonson & Associates Architects LLC and their consultants has completed these design documents to the level of detail requested by our client. The level of detail may range from schematic design document(s) mainly conveying programmatic information to fully detailed documents and specifications. However, the clients intent and expectations are that these documents be used as the basis for design for an complete all-inclusive project based upon industry standards & manufacturer recommendations for all disciplines & materials. It should also satisfy all authorities having jurisdiction requirements.

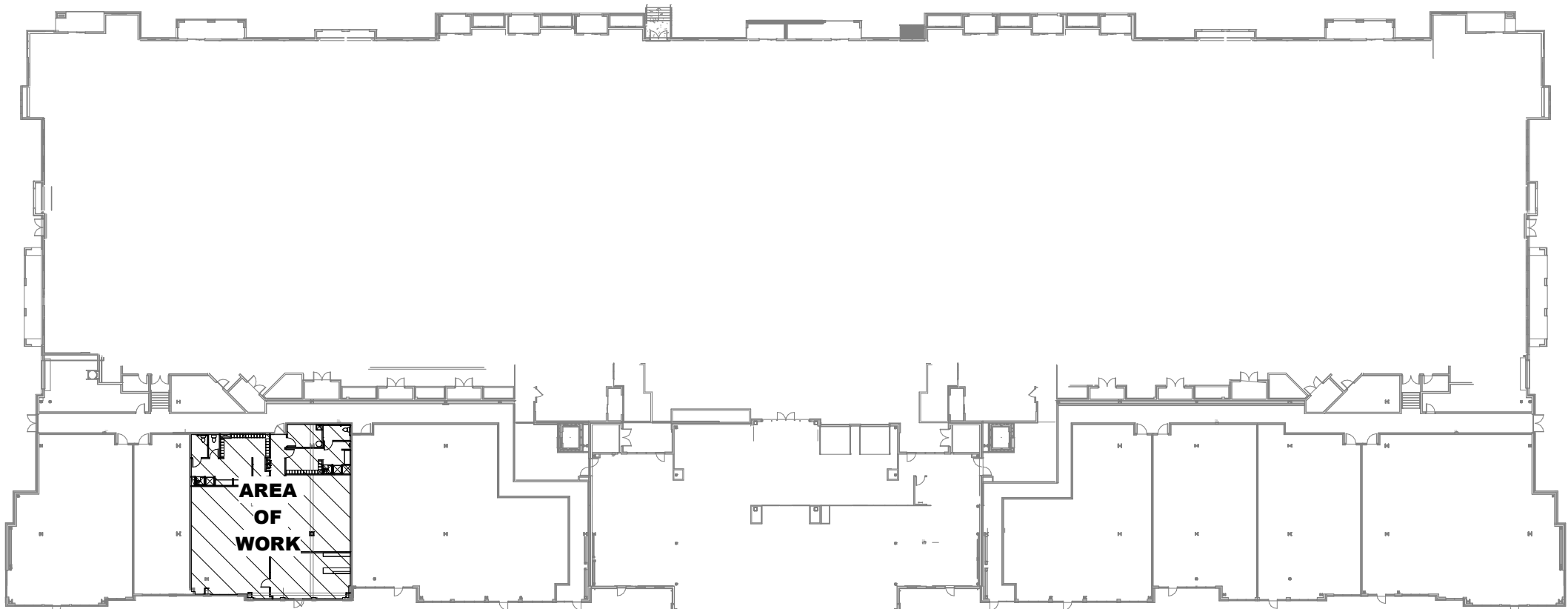
NOTE:
THIS DRAWING DOES NOT REPRESENT AN AS-BUILT CONDITION. ACTUAL DETAILS AND DIMENSIONS MAY VARY AND ARE SUBJECT TO CHANGE. AS-BUILT CONDITIONS MUST BE FIELD VERIFIED PRIOR TO FINAL LAYOUT AND CONSTRUCTION OF INTERIOR TENANT IMPROVEMENTS.

LEGEND:

- DOOR INDICATOR
- FINISH INDICATOR
- KEYNOTE
- REVISION INDICATOR
- ROOM INDICATOR
- HORIZONTAL & VERTICAL ASSEMBLY TYPE IDENTIFIER
- WINDOW INDICATOR

SCALE NOTE:

24"x36" SHEET (FULL SIZE)
- SCALE IS AS NOTED.
12"x18" SHEET (HALF SIZE)
- SCALE IS ONE-HALF OF WHAT IS NOTED
OTHER SHEET SIZES NOT TO SCALE



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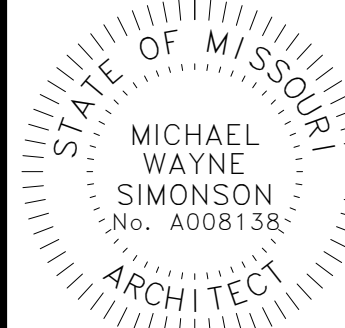
OVERALL FLOOR PLAN

SCALE: 1" = 50'-0"

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The Specification Notes are organized into Divisions using the CSI/CSC's "MasterFormat" numbering system. The following is not intended to be an all inclusive list, but rather a general summary. Failure to identify a requirement does not give any contractor, general contractor or its sub-contractors the right to violate any codes, governing authority, minimum quality or quantity, industry standards, manufacturer recommendations, etc.

DIVISION 01 – GENERAL REQUIREMENTS

GENERAL:

1. Refer to additional notes and requirements on all other documents and other disciplines documents.
2. In the event that a discrepancy is found between any codes, governing authority, drawings, documents, or any other requirements, the most restrictive or stringent requirement shall be used.
3. Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under separate Contracts.
4. Owner reserves the right to place and install equipment in all areas of building and site, before Substantial Completion, provided it does not interfere with completion of the Work.

CONSTRUCTION SCHEDULE - Before commencing Work, submit a schedule showing the sequence, commencement and completion dates for all phases of the Work.
Coordinate the Work of this Contract with work performed under separate contracts.

TEMPORARY CONSTRUCTION - Provide all required temporary construction, temporary facilities and temporary utilities required to complete the project including but not limited to, erosion control structures, material storage areas, enclosures for tools and other equipment, a field office, temporary utility services for construction usage, temporary heat and cover, and temporary toilet facilities.

CLEAN-UP - The Contractor shall be responsible for construction trash removal services and shall at all times keep the building and site free from accumulation of debris. Upon completion, the building, including glazing, and site shall be cleaned and turned over to the Owner.

WARRANTY - All work shall be of good quality and all materials and equipment shall be new and free from defects for a period of one year from the date of substantial completion of work. Any extended warranties obtained from suppliers of subcontractors shall be forwarded to the owner.

INSURANCE - The Contractor shall maintain Workers' Compensation Insurance and Comprehensive Public Liability and Builders Risk Insurance.

QUALITY ASSURANCE - The Contractor shall implement a Quality Assurance program which includes independent agency testing and observation of soils, cast-in-place concrete and structural steel, as well as inspection of work in progress. The owner will have the right to perform inspections and/or independent tests at any time. All lines and levels shall be established by a Registered Land Surveyor.

RECORD DOCUMENTS - Upon completion of the project, the Contractor shall prepare a complete set of record documents including a list of Suppliers and Subcontractors used on the project, manufacturer's warranties, operation and maintenance manuals for major pieces of equipment and instruction manuals when appropriate for building systems.

SUBMITTALS

1. Allow enough time for submittal review, including time for resubmittals. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
2. By submitting shop drawings, product data and samples, the contractor has verified and approved the information contained within. The contractor's review and approval shall be shown on each submittal prior to the submission to the architect.
3. Provide samples for each type and color for review of kind, color, pattern, and texture for a check of these characteristics with other elements.
4. Immediately on discovery of the need for interpretation of the Contract Documents, and if not possible to request interpretation at Project meeting, prepare and submit an RFI.
5. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate. Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

QUALIFICATIONS

1. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
2. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
3. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
4. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar to those indicated for this Project in material, design, and extent.
5. Specialists: Certain items require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements and shall be engaged for the activities indicated.
6. Testing Agency Qualifications: An independent agency with the experience and capability to conduct testing and inspecting indicated and where required by authorities having jurisdiction, that is acceptable to authorities.
7. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
8. Manufacturer's Warranty: Preprinted written warranty published by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.

DIVISION 02 – EXISTING CONDITIONS

GENERAL:

1. Verify existing conditions before fabrication or prior to proceeding with the work, and notify the architect immediately of significant discrepancies.
2. Maintain existing building in a weathertight condition throughout construction period. Repair damage caused by construction operations. Protect building and its occupants during construction period.
3. Perform the Work so as not to interfere with day-to-day operations. Maintain existing exits, unless otherwise indicated.
4. Provide new units to match existing units in body composition, physical properties, color, gloss, surface texture, thickness, profile, dimensions, and composition of surface.
5. Protect persons, motor vehicles, surrounding surfaces of building not effected, building site, plants, and surrounding buildings from harm resulting from any work. When no longer needed, promptly remove masking to prevent adhesive staining.
6. Support and protect remaining construction that surrounds removal area. Maintain flashing, reinforcement, lintels, and adjoining construction in an undamaged condition.

SPECIFICATION NOTES

cont.

DIVISION 03 – CONCRETE

Refer to Structural Documents)

GENERAL:

1. All concrete shall be reinforced unless otherwise noted.
2. All concrete shall be saw cut. If saw cuts are not specified, contact architect and engineer. If possible provide saw cut under demising walls.
3. Concrete to only be placed over dry sub-grade to prevent heaving in winter.
4. Forms where concrete is to be exposed shall be smooth and free of defects.
5. Exterior paving to be 1/4" lower than interior finish floor, sloping away from building. Where no paving, top of finished grade a minimum of 4" below finish floor.

033500 CONCRETE FINISHING

1. Concrete floor slab shall be installed to a true plane with no deviations greater than 1/4" in any 10'-0" direction and free from blemishes and trowel marks.
2. Trowel Finish: Apply a trowel finish to monolithic slab surfaces exposed to view and slab surfaces to be covered with resilient flooring, carpet, ceramic or quarry tile, paint, or another thin film-finish coating system. Grind smooth any surface defects that would telegraph through applied floor covering system.

DIVISION 04 – MASONRY

(Refer also to Structural Documents)

GENERAL:

DIVISION 05 – METALS

(Refer also to Structural Documents)

GENERAL:

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

(Refer also to Structural documents)

GENERAL:

1. All wood framing members, including wood sheathing, that rest on the exterior foundation walls & are less than 8" from exposed earth & all wood in direct contact with masonry, concrete, earth or material that retains moisture shall be of naturally durable or preservative-treated wood.
2. Wood blocking is required for, but not limited to millwork, cabinets, handrails, rest room fixtures & accessories; grab bars, future grab bars as required in R / Multi-family occupancies, door & window frames, overhead door bucks, hardware, owner/tenant fixtures & equipment, etc..

064116 PLASTIC LAMINATE FACED ARCHITECTURAL CABINETS

1. Comply with AWT's "Architectural Woodwork Standards"
2. MDF to be Grade 130 with no urea-formaldehyde resins. Particleboard to be Grade M-2 with no urea-formaldehyde resins. Thermoset panels thermally fused, melamine-impregnated paper complying with NEMA LD3, Grade VGL.
3. Before installation, condition cabinets to installation areas for a minimum of 24 hours.
4. Install level, plumb, true and straight. Shim as required with concealed shims. Scribe and cut to fit adjoining work, refinish cut surfaces and repair damaged finishes at cuts.
5. Anchor to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners, and blind nailing. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush.

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

GENERAL:

072100 THERMAL INSULATION - R19 min. wall insulation at all studio walls unless otherwise noted.

072600 VAPOR RETARDERS

1. All studio walls to received 10-mil thick vapor barrier sheets (installed per manufacturer's recommendation) beneath the gypsum board on the studio side.
 2. Seal vertical joints in vapor retarder by lapping no fewer than two studs and sealing per the manufacturer's recommendation.
 3. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarder with paor-retarder tape to create an airtight seal between penetrating objects and vapor retarders.
- 079000 JOINT PROTECTION**
1. Provide joint sealant at all wall and floor control and expansion joints and exterior doors, windows and other openings.
 2. Provide backer rods where required for proper sealant application. Backer rods to be polyethylene closed-cell with a surface skin.
 3. Utilize acoustical sealant at all floor/wall/deck junctures prior to installation of base at studio walls.
 4. Sealants to be compatible to materials for maximum bonding and longevity.
 5. Soft caulk joint between vertical joints of dis-similar materials. Soft caulk joint & metal pan underneath horizontal joints of dis-similar materials.
 6. Sealants should be color matched to adjacent materials.

DIVISION 08 – OPENINGS

GENERAL:

1. All glass in interior doors, frames, sidelights, windows and storefront to be 1/4", tempered, laminated and/or rated glass where required.
2. All interior glass between tempered and non-tempered spaces shall be clear insulated.

081000 DOORS & FRAMES - (Refer to Door & Frame Schedule & Elevations)

088300 MIRRORS

1. Mirrors above accessible lavatories shall have the bottom edge of the reflecting surface 40" maximum above the floor.
2. All mirrors to be tempered or film-backed safety.

DIVISION 09 – FINISHES

(Refer to Finish Sheet A-701)

GENERAL:

1. All finishes to be verified with Owner prior to ordering.
2. All finishes to be installed as recommended by the manufacturer's installation instructions. Any inconsistency found in the installation and these recommendations will result in removal of defective material and reinstallation.
3. Properly clean and prep (fill any cracks, holes or depressions) all substrates for adequate bond of finish.

092116 GYPSUM BOARD ASSEMBLIES

1. All gypsum board to be smooth finish, properly taped and sanded, ready for finish.
 2. Gypsum board expansion joints shall be used where required per standard gyp. board practices to prevent cracking of drywall.
- 093100 PAINTING** - All paint finish shall be primed followed by 2 coats of high quality finish paint. Gypsum board shall be latex paint, interior metals shall be epoxy paint, exterior metals shall be a three-coat Thernec system. If smooth surface, material should be sanded between all coats. All steel doors & metal frames shall be spray applied paint.

SPECIFICATION NOTES

cont.

DIVISION 10 – SPECIALTIES

GENERAL:

Window coverings, toilet accessories, lockers, and flagpole shall be provided.

10 14 00 SIGNAGE: Provide all that apply. All signage shall comply with the ICC A117.1 requirements, where required, such as visual characters, raised characters, international symbols of accessibility, & braille.

1. **BUILDING ADDRESS IDENTIFICATION**: Approved address numbers or letters, where each character shall be not less than 4" in height and not less than 0.5" in width stroke, shall be installed on a contrasting background and be plainly visible from the street or road fronting the property (& monument sign). When required by the governing authority, address numbers shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or approved sign or means shall be used to identify the structure. Address numbers shall be maintained.
2. **EXIT SIGNS** (non-illuminated tactile type): Raised character and Braille exit signs. A sign stating EXIT in raised characters and Braille and complying with ICC A117.1 shall be provided adjacent to each door to an area of refuge, an exterior area for assisted rescue, an exit stairway, an exit ramp, an exit passageway an the exit discharge. Refer to others docs for illuminated exit sign requirements.
3. **ACCESSIBILITY**: Required accessible elements shall be identified by the International Symbol of Accessibility (ISA) at the following locations:
 1. Accessible parking spaces required.
 2. Accessible passenger loading zones.
 3. Accessible rooms where multiple single-user toilet or bathing rooms are clustered at a single location.
 4. Accessible entrances where not all entrances are accessible.
 5. Family or assisted-use toilet and bathing rooms.
 6. Accessible dressing, fitting and locker rooms where not all such rooms are accessible.
 7. Accessible areas of refuge in accordance with Section 1007.9.
 8. Accessible area for assisted rescue in accordance with Section 1007.9.
4. **REST ROOM SIGNAGE**: Required public rest room facilities shall be designated by a legible sign for each sex. Signs shall be readily visible and located near the entrance to each toilet facility. Provide ADA compliant tactile signs having Braille, regular copy and pictographs including wheelchair if applicable to be mounted 60" A.F.F. on wall at latch side of door.
5. **ROOM DESIGNATIONS & IDENTIFICATION**: Interior and exterior signs identifying permanent rooms and spaces shall be raised characters and Braille. Where pictograms are provided as designations of interior rooms and spaces, the pictograms shall have raised characters and Braille text descriptors. Exceptions:
 1. Exterior signs that are not located at the door to the space they serve are not required to comply.
 2. Building directories, menus, seat & row designations in assembly areas, occupant names, building addresses and company names and logos are not required to comply.
 3. Signs in parking facilities are not required to comply.
 4. Temporary (seven days or less) signs are not required to comply.
 5. In detention and correctional facilities, signs, not located in public areas are not required to comply.
6. **Marketing Signage**: Provide official building name & logo signage on building as approved by owner.
7. **Other Jurisdiction Required Signage** as required which could include:
 1. FDC sign above exterior Fire Department Connection.
8. **ACCESSIBLE SIGNAGE MOUNTING REQUIREMENTS**:
 1. Visual characters shall be located 40" minimum above the floor to less than or equal to 70" at the viewing position distance (less than 6") measured to the baseline of the visual character.
 2. Raised characters shall be located 48" minimum above the floor, measured to the baseline of the raised character & 60" maximum above the floor, measured to the baseline of the highest raised character.
 3. Where a sign containing raised characters & braille is provided at a door, the sign shall be alongside the door at the latch side. Where a sign containing raised characters & braille is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a raised characters & braille is provided at double doors with two active leafs, the sign shall be to the right of the right-hand door. Where there is no wall space on the latch side of a single door or the right side of double doors, signs shall be on the nearest adjacent wall. Signs containing raised characters & braille shall be located so that a clear floor area 18" minimum by 18" minimum, centered on the raised characters is provided beyond the arc of any door swing between the closed position & 45 degree position.
 4. Braille shall be located 48" minimum & 60" maximum above the floor, measured to the baseline of the braille cells.
9. **ACCESSIBLE PARKING SPACE IDENTIFICATION SIGNS**:
 1. Parking space identification signs shall include the International Symbol of Accessibility. Signs identifying van parking spaces shall contain the designation "van accessible". Signs shall be 60" minimum above the finish floor or ground surface measured to the bottom of the sign.

10 20 00 TOILET COMPARTMENTS - (Refer to Rest Room Details)

10 28 00 TOILET, BATH, AND LAUNDRY ACCESSORIES - (Refer to Rest Room Accessory Schedule)

10 41 16 EMERGENCY KEY CABINETS - Provide a recessed Knox box ordered from or approved by and installed in a location approved by governing authorities.

10 44 16 FIRE EXTINGUISHERS - Provide and install fire extinguishers, 10 pound ABC or as approved by governing authorities, by each exit and a maximum travel distance of no more than 75'-0" per placement, or as required by governing authorities. Fire extinguisher shall be in a semi-recessed cabinet when located in common areas.

DIVISION 11 – EQUIPMENT

GENERAL:

DIVISION 12 – FURNISHINGS

GENERAL:

DIVISION 13 – SPECIAL CONSTRUCTION

GENERAL:

DIVISION 14 – CONVEYING EQUIPMENT

GENERAL:

DIVISION 15 - 19 (Not Used)

SPECIFICATION NOTES

cont.

FACILITY SERVICE SUBGROUP DIV. 20 – 29

DIVISION 20 (Not Used)

DIVISION 21 – FIRE SUPPRESSION

(Refer to Fire Suppression scope/documents & Utility requirements)

GENERAL:

1. All penetrations thru rated walls must be protected by approved fire rated assemblies and fire stopping materials.
2. Drop current system into new tenant ceiling. Heads in ACT ceilings shall be centered on tiles.

DIVISION 22 – PLUMBING

(Refer to Plumbing scope/documents & Utility requirements)

GENERAL:

1. All information shall be clearly documented and provided to owner and architect. Lines under floor slab shall be clearly documented.

DIVISION 23 – HEATING, VENTILATION, AND AIR CONDITIONING

(Refer to Mechanical scope/documents & Utility requirements)

GENERAL:

1. All information shall be clearly documented and provided to owner and architect.
2. Provide independently controlled areas having excessive heat gain or heat loss or affected by solar radiation at different times of the day.
3. Verify location of all thermostats with owner before permanent placement.
4. Provide exhaust fans in all rest rooms.
5. Clean all systems and provide new filters after construction is complete.

23 09 00 INSTRUMENTATION & CONTROL FOR HVAC

Thermostats shall be placed within one or more of the ANSI accessible reach ranges & all controls 48" height maximum from finished floor.

DIVISION 24 (Not Used)

DIVISION 25 – INTEGRATED AUTOMATION

(Refer to Electrical scope/documents)

GENERAL:

1. If requested, provide complete flexible electronic building management systems to control all building functions including but not limited to HVAC, lighting, security, card reader access, fire/sprinkler alarm, etc.

DIVISION 26 – ELECTRICAL

(Refer to Electrical scope/documents & Utility requirements)

GENERAL:

1. All information shall be clearly documented and provided to owner and architect.

NOTE: Electric sub-contractor shall calculate & verify the required size of the service with utility company.

265200 EMERGENCY LIGHTING - Provide dual beam emergency lights with battery back-up to provide a minimum 1 foot-candle, at floor level, throughout egress system or as required by governing authorities.

265300 EXIT SIGNS - Provide lighted exit signage with battery back-up by each exit and throughout egress system as required by governing authorities. Exit signs at doors shall be on the door or within 4" of the door frame.

265600 EXTERIOR LIGHTING -

1. Provide downlites to illuminate each exterior door.
2. All exterior building lighting shall be flexibly controlled by both photocell & timer.
3. All fixtures must be approved by governing authorities before installation.

DIVISION 27 – COMMUNICATIONS

(Refer to Electrical & Life-Safety scope/documents & Utility requirements)

GENERAL:

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

(Refer to Electrical & Life-Safety scope/documents)

GENERAL:

DIVISION 29 (Not Used)

Site & Infrastructure Subgroup Div. 30–39

DIVISION 30 (Not Used)

DIVISION 31 – EARTHWORK

(Refer to Civil & Geotechnical documents)

GENERAL:

DIVISION 32 – EXTERIOR IMPROVEMENTS

(Refer to Civil & Geotechnical documents)

DIVISION 33 – UTILITIES

(Refer to Civil documents)

GENERAL:

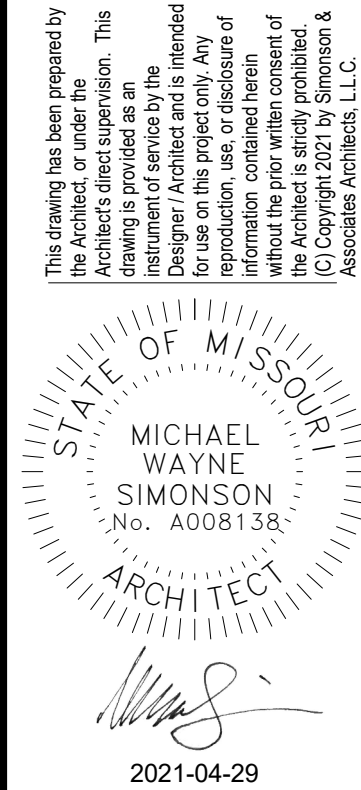
1. All utilities shall be adequately sized and spaced to eliminate any overflow and/or backup.

DIVISION 34 – Transportation (Not Applicable)

DIVISION 35 – Waterway and Marine Construction (Not Applicable)

DIVISION 36 – 39 (Not Used)

End of Specification Notes



2021-04-29

POWER LIFE
940 NW PRYOR RD
LEE'S SUMMIT, MO 64081

Rev. #	Issue / Revision	Date
1	PERMIT PLANS	04/29/2021

Proj. No. SAA Proj. Mgr.
21050 SP
Sheet Title
SPECIFICATION NOTES
Sheet No.

G-001

CHAPTER 3: BUILDING BLOCKS

301 General

301.1 Scope.

Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

302 Floor or Ground coverings

302.2 Carpet.

Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

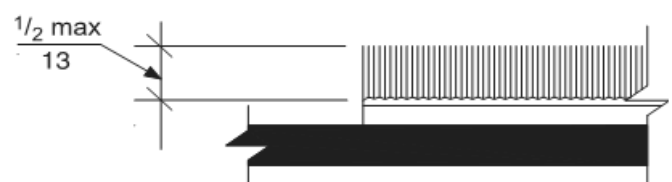


FIG. 302.2
CARPET ON FLOOR SURFACES

302.3 Openings.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that long dimension is perpendicular to the dominant direction of travel.

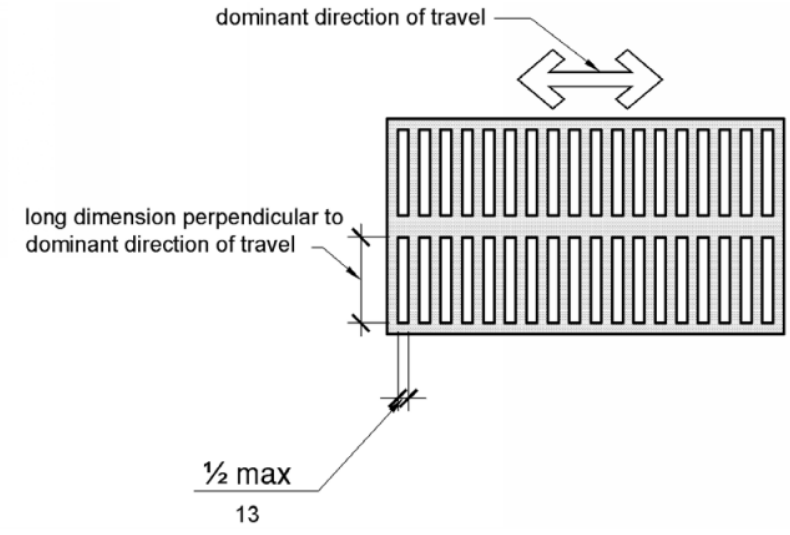


Figure 302.3
Elongated Openings in Floor or Ground Surfaces

303 Changes in Level

303.1 General.

Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

EXCEPTIONS:

- Animal containment areas shall not be required to comply with 303.
- Areas of sports activity shall or be required to comply with 303.

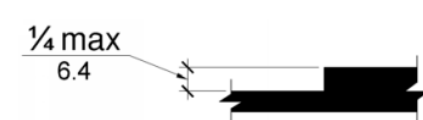


Figure 303.2
Vertical Change in Level

303.2 Vertical.

Changes in level 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

303.3 Beveled.

Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Advisory 303.3 Beveled.
A change in level 1/2 inch (13 mm) is permitted to 1/4 inch (6.4 mm) vertical plus 1/4 inch (6.4 mm) beveled. However, in no case may the combined change in level exceed 1/2 inch (13 mm). Changes in level exceeding 1/2 inch (13 mm) must comply with 405 (Ramps) or 406 (Curb Ramps).

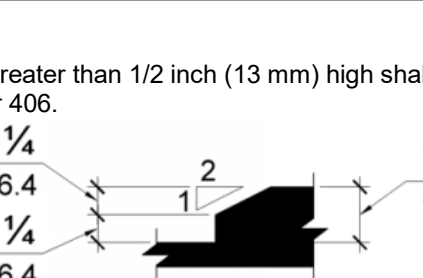


Figure 303.3
Beveled Change in Level

304 Turning Space

304.1 General

Turning space shall comply with 304.

304.2 Floor or Ground Surfaces.

Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:

Slopes not steeper than 1:48 shall be permitted.

Advisory 304.2 Floor or Ground Surface Exception.
As used in this section, the phrase "changes in level" refers to surfaces with slopes and to surfaces with abrupt rise exceeding that permitted in Section 303.3. Such changes in level are prohibited in required clear floor and ground spaces, turning spaces, and in similar spaces where people using wheelchairs and other mobility devices must park their mobility aids such as in wheelchair spaces, or maneuver those elements such as at doors, fixtures, and telephones. The exception permits slopes not steeper than 1:48.

304.3 Size.

Turning space shall comply with 304.3.1 or 304.3.2.

304.3.1 Circular Space.

Turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space

The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (304 mm) minimum in each direction and the base shall be clear of obstruction 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

304.4 Door Swing.

Doors shall be permitted to swing into turning spaces.

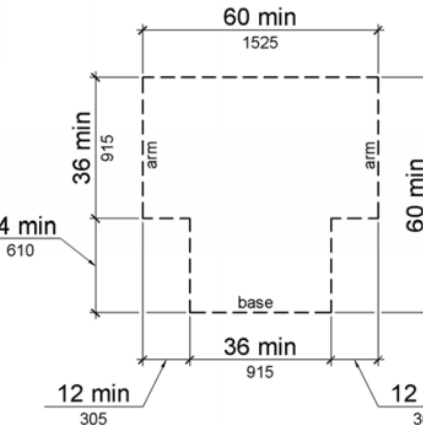


Figure 304.3.2
T-Shaped Turning Space

305 Clear Floor or Ground Space

305.1 General

Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces.

Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:

Slopes not steeper than 1:48 shall be permitted.

305.3 Size.

The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

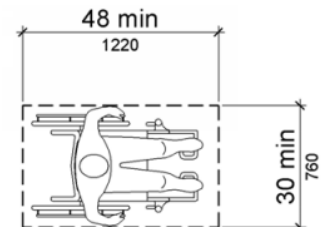


Figure 305.3
Clear Floor or Ground Space

305.4 Knee and Toe Clearance.

Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position.

Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

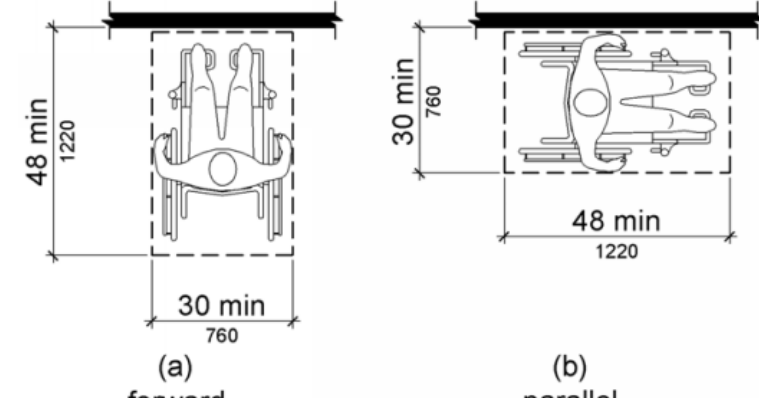


Figure 305.5
Position of Clear Floor or Ground Space

305.6 Approach.

One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance.

Where a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach.

Alcoves shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

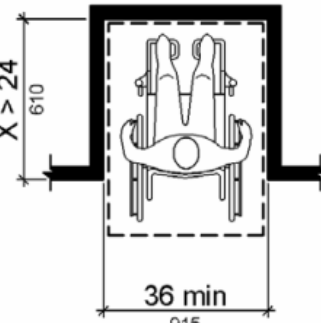


Figure 305.7.1
Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach.

Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

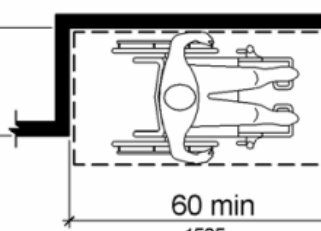


Figure 305.7.2
Maneuvering Clearance in an Alcove, Parallel Approach

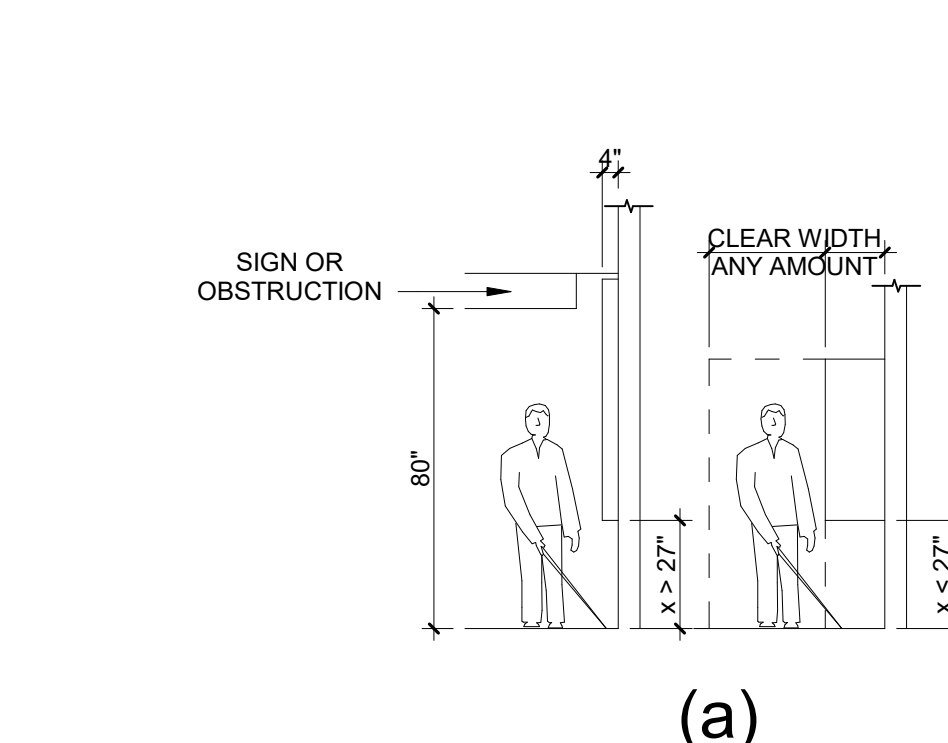
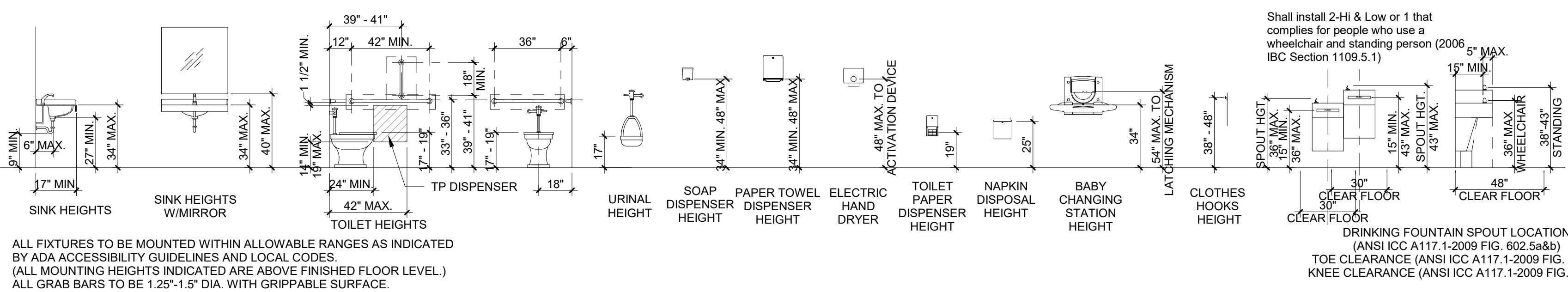


Figure 305.7.3
Maneuvering Clearance in an Alcove, Parallel Approach

6 PROTRUDING OBJECTS

SCALE: 1/4" = 1'-0"



ALL FIXTURES TO BE MOUNTED WITHIN ALLOWABLE RANGES AS INDICATED BY ADA ACCESSIBILITY GUIDELINES AND LOCAL CODES.
(ALL MOUNTING HEIGHTS INDICATED ARE ABOVE FINISHED FLOOR LEVEL.)
ALL GRAB BARS TO BE 1.25"-1.5" DIA. WITH GRIPPABLE SURFACE.

1 FIXTURE MOUNTING HEIGHT

SCALE: 1/4" = 1'-0"

306 Knee and Toe Clearance

306.1 General.

Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

Advisory 306.1 General.

Clearances are measured in relation to the usable clear floor space, not necessarily to the vertical support for an element. When determining clearance under an object for required turning or maneuvering space, care should be taken to ensure the space is clear of any obstructions.

306.2 Toe Clearance.

306.2.1 General.
Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth.

Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth.

Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance.

Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width.

Toe clearance shall be 30 inches (760 mm) wide minimum.

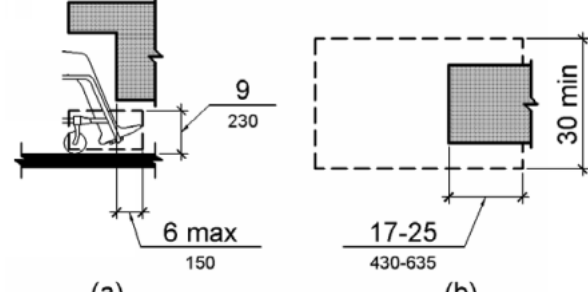


Figure 306.2
Toe Clearance

306.3 Knee Clearance.

306.3.1 General.

Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth.

Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth.

Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction.

Vertical clearance shall be 8 inches (205 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

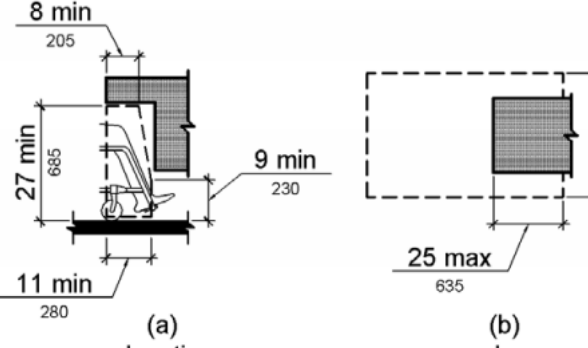


Figure 306.3
Knee Clearance

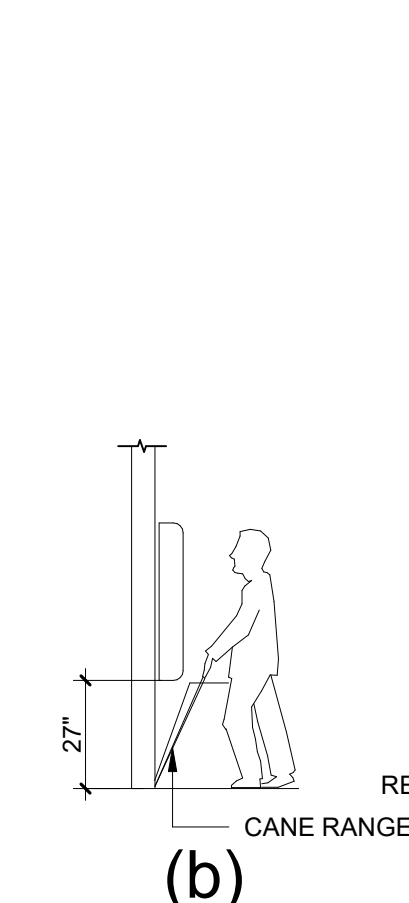


Figure 306.4
Vertical Clearance

307.5 Required Clear Width

Protruding objects shall not reduce the clear width required for accessible routes.

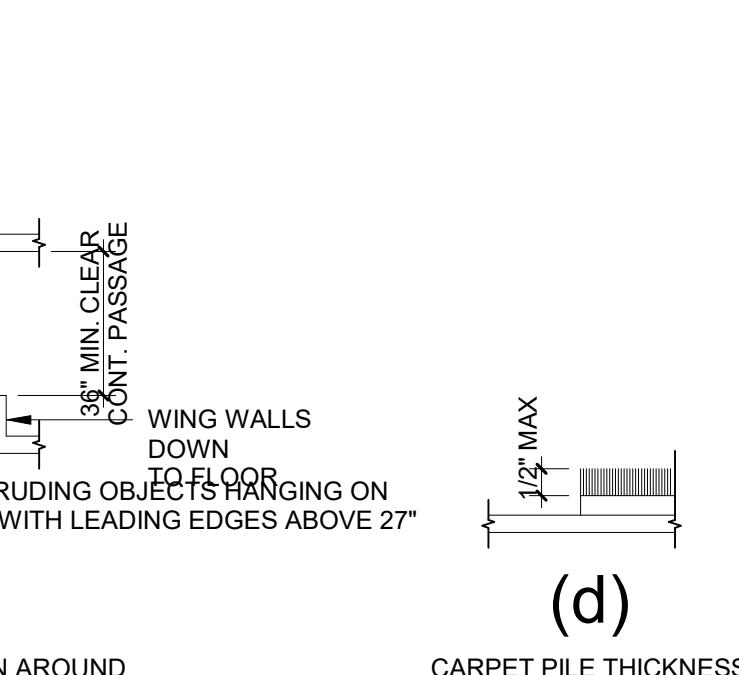


Figure 307.5
Required Clear Width

307.6 Protruding Objects

307.1 General.

Protruding objects shall comply with 307.

307.2 Protrusion Limits.

Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION:

Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

Advisory 307.2 Protrusion Limits.

When a cane is used and the element is in the detectable range, it gives a person sufficient time to detect the element with the cane before there is body contact. Elements located on circulation paths, including operable elements, must comply with requirements for protruding objects. For example, awnings and their supporting structures cannot reduce the minimum required vertical clearance. Similarly, casement windows, when open, cannot encroach more than 4 inches (100 mm) into the circulation path above 27 inches (685 mm).

Figure 307.2

Figure 307.2
Limits of Protruding Objects

307.3 Post-Mounted Objects.

Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

EXCEPTION:

The sloping portions of handrails serving stairs and ramps shall not be required to comply with 307.3.

Figure 307.3

Figure 307.3
Post-Mounted Protruding Objects

307.4 Vertical Clearance.

Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION:

Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

Figure 307.4

Figure 307.4
Vertical Clearance

308 Reach Ranges

308.1 General.

Reach ranges shall comply with 308.

Advisory 308.1 General.

The following table provides guidance on reach ranges for children according to age where building elements such as hooks, lockers, or operable parts are designed for use primarily by children. These dimensions apply to either forward or side reaches. Accessible elements and operable parts designed for adult use or children over age 12 can be located outside these ranges but must be within the adult reach ranges required by 308.

Children's Reach Ranges			
Forward or Side Reach	Ages 3 and 4	Ages 5 through 8	Ages 9 through 12
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

308.2 Forward Reach.

308.2.1 Unobstructed.

Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

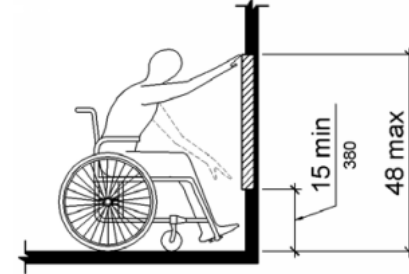


Figure 308.2.1
Unobstructed Forward Reach

308.2.2 Obstructed High Reach.

Where a high reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (150 mm), the high reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

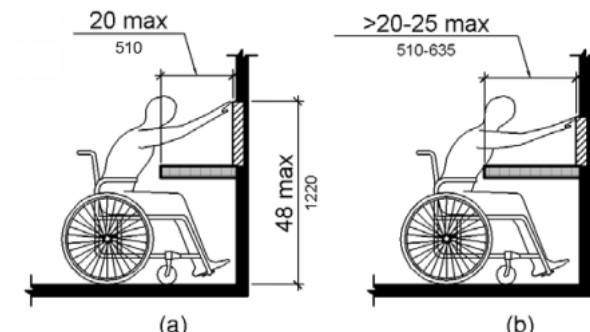


Figure 308.2.2
Obstructed High Forward Reach

308.3 Side Reach.

308.3.1 Unobstructed.

Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

EXCEPTIONS:

- An obstruction shall be permitted between the clear floor and ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
- Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

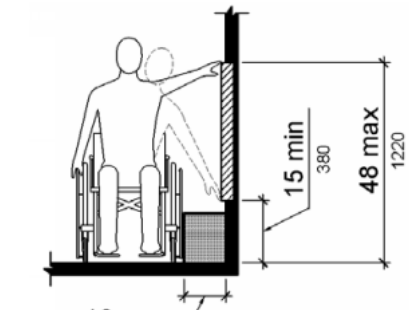


Figure 308.3.1
Unobstructed Side Reach

308.3.2 Unobstructed High Reach.

Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (117 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

EXCEPTIONS:

- The top of washing machines and clothes dryers shall be permitted to be 36 inches (915 mm) maximum above the finish floor.
- Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

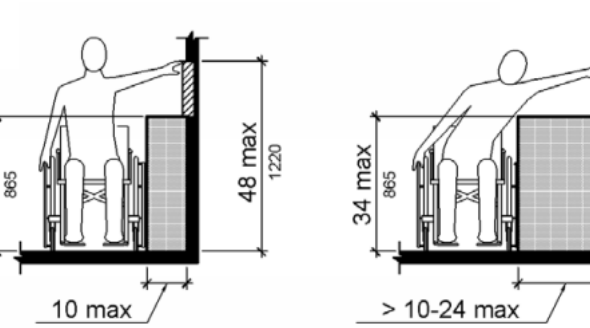


Figure 308.3.2
Obstructed High Side Reach

309 Operable Parts

309.1 General.

Operable parts shall comply with 309.

309.2 Clear floor space.

A clear floor space complying with 305 shall be provided.

309.3 Height.

Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2N) maximum.

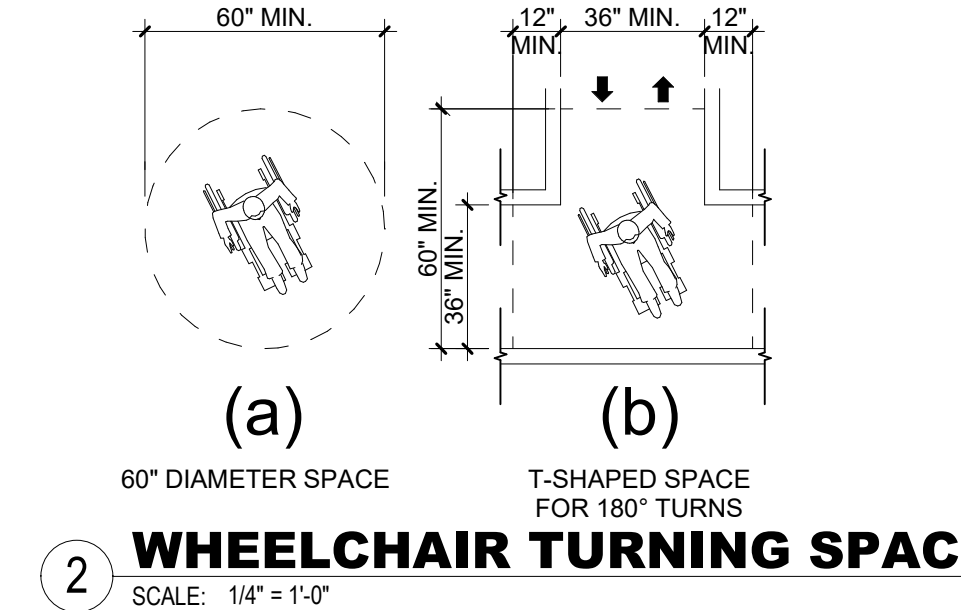


Figure 309.3
Height

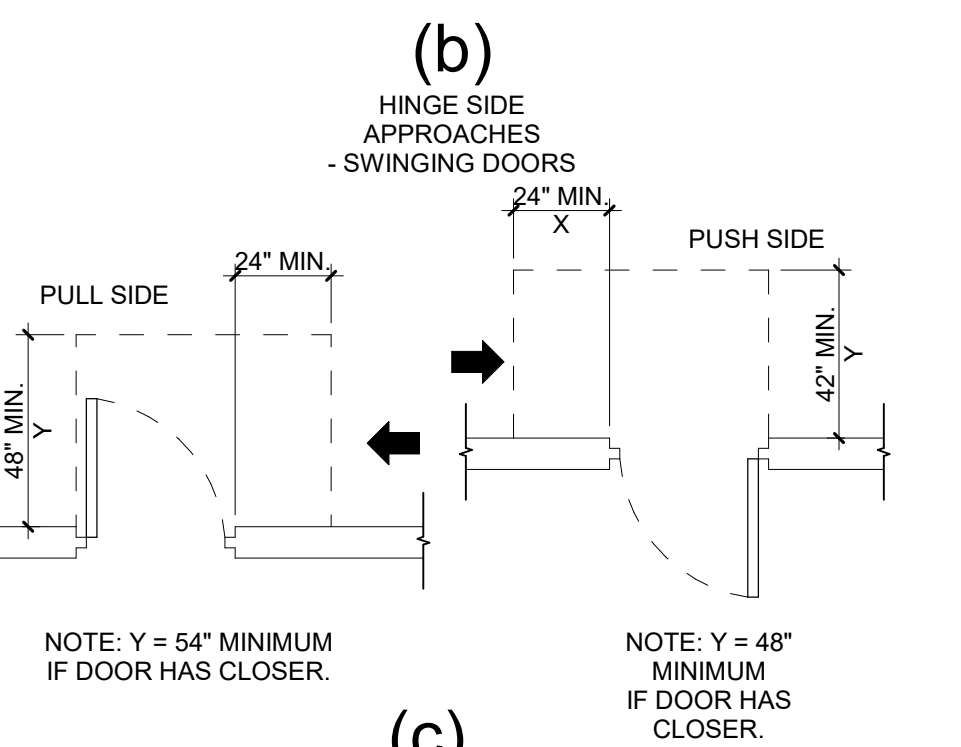
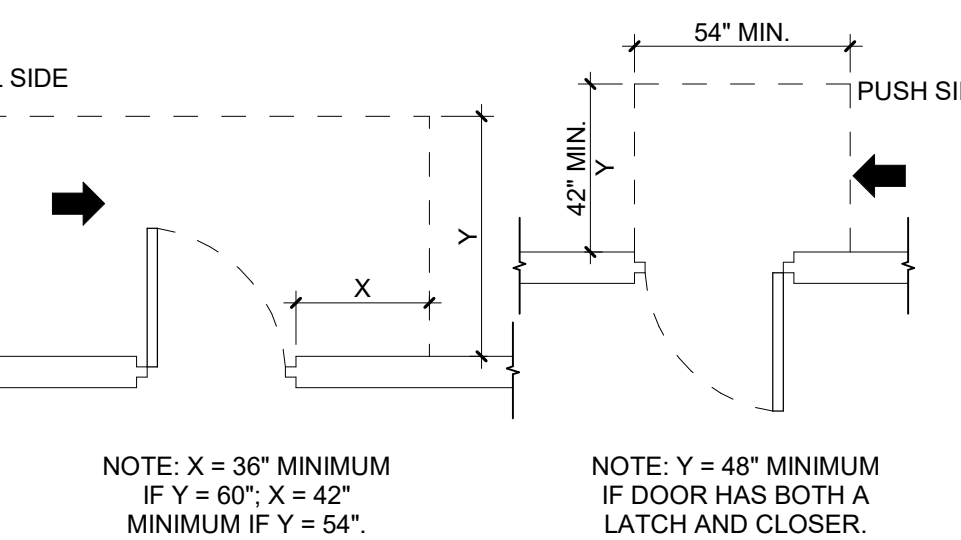
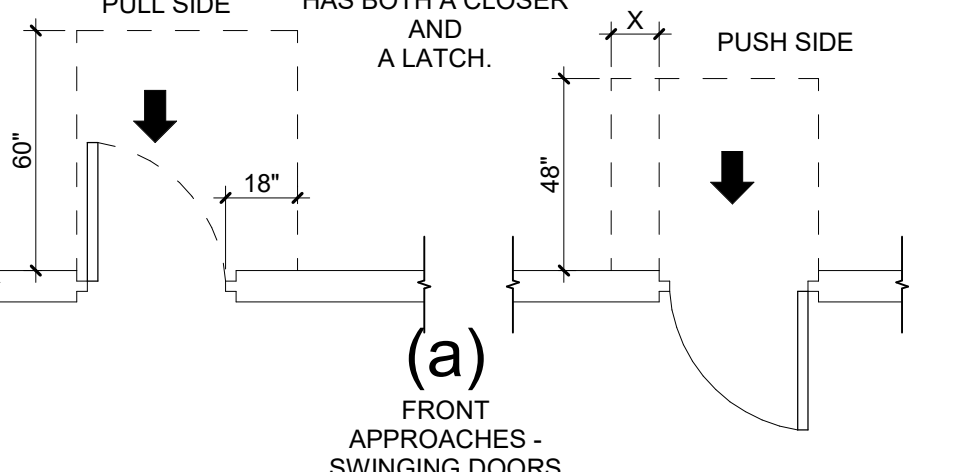
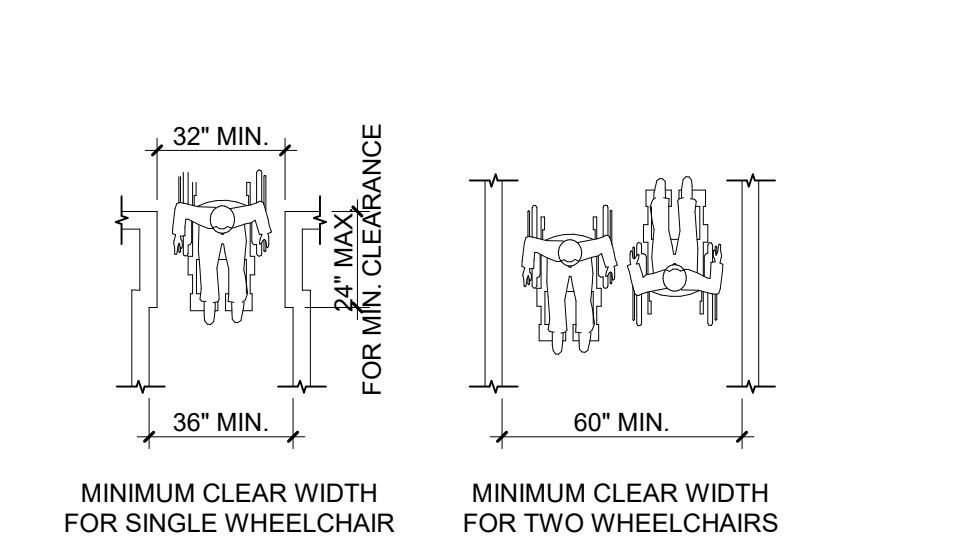


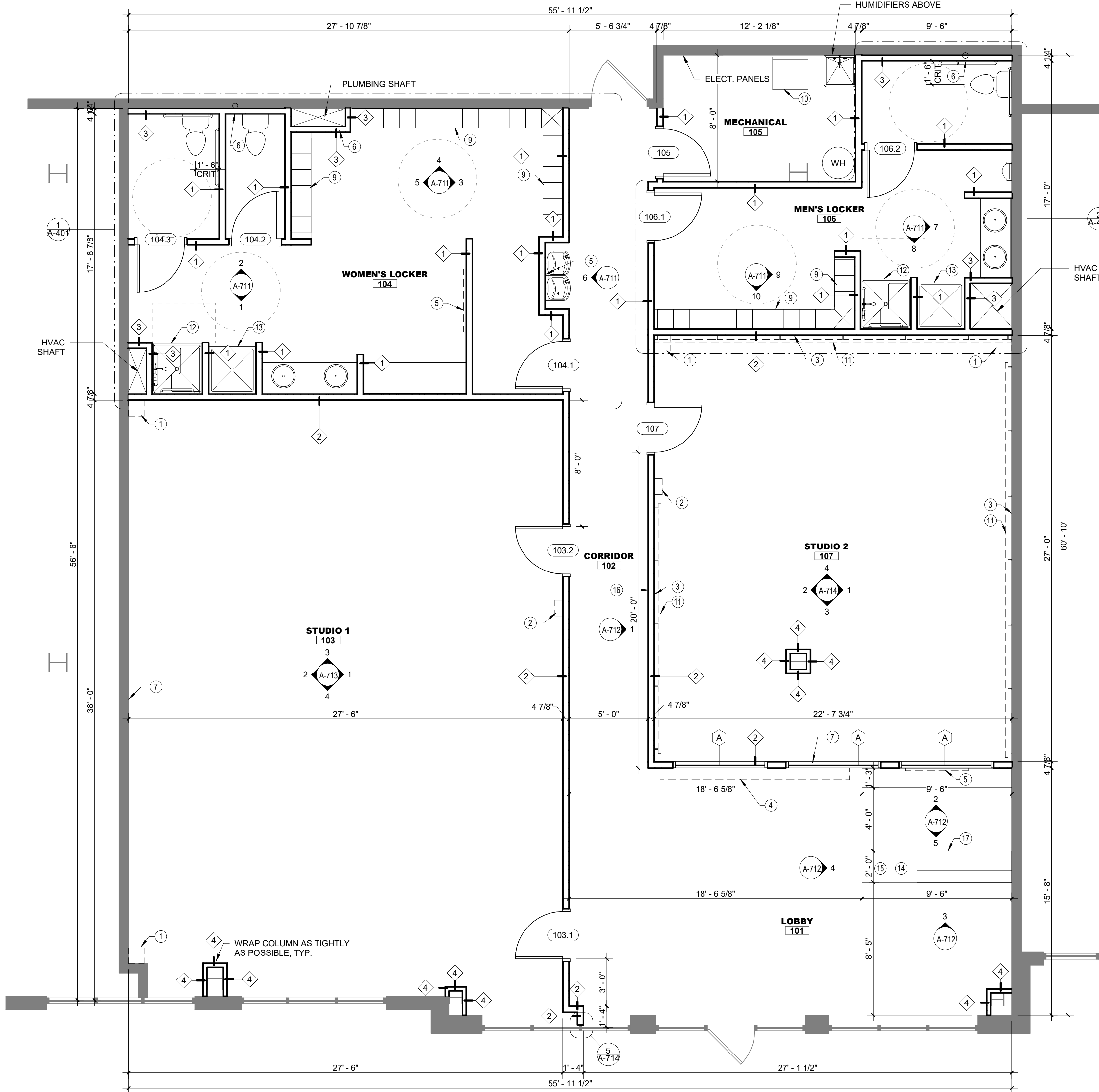
Figure 309.6
Latch Side Approaches - Swinging Doors

3 MANEUVERING CLRS @ DOORS

SCALE: 1/4" = 1'-0"



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FLOOR PLAN

SCALE: 1/4" = 1'-0"

FLOOR PLAN KEYNOTES	
Note #	Description
1	PROVIDE SOLID BLOCKING IN WALL AS REQUIRED FOR TENANT FURNISHED CORNER SHELF; COORDINATE EXACT PLACEMENT W/ TENANT
2	OWNER PROVIDED WALL SHELF; COORDINATE EXACT PLACEMENT W/ TENANT
3	PROVIDE SOLID BLOCKING IN WALL FOR TENANT FURNISHED WALL MOUNTED BARRE SYSTEM; COORDINATE EXACT PLACEMENT W/ TENANT
4	PROVIDE SOLID BLOCKING IN WALL 12'-0" WIDE FOR TENANT FURNISHED WALL ANCHORED RETAIL SHELVING; COORDINATE EXACT PLACEMENT W/ TENANT
5	PROVIDE SOLID BLOCKING IN WALL FOR TENANT FURNISHED TELEVISION AND MOUNTING BRACKET; COORDINATE EXACT SIZE AND HEIGHT W/ TENANT
6	PROVIDE ACCESS PANEL TO CLEAN-OUT
7	CLEAR GLASS MIRROR WALL PANELS (SEE M-1 ON A-701)
9	PRE-FABRICATED WOOD LOCKER; PROVIDE MATCHING SCRIBE STRIPS AT ENDS AS REQUIRED; VERIFY FINAL CONFIGURATION W/ TENANT (SEE LKR-1 ON A-701)
10	ALL-IN ONE WASHER/DRYER FURNISHED BY TENANT
11	WALL MOUNTED BARRE SYSTEM FURNISHED BY TENANT
12	ADA COMPLIANT SHOWER ENCLOSURE, SEAT, AND HAND SHOWER; SHOWER CURTAIN AND ROD
13	SHOWER ENCLOSURE; FROSTED GLASS DOOR
14	UNDERCOUNTER REF. FURNISHED BY OWNER
15	BUILT-IN MAT BOX OPEN ON EMPLOYEE SIDE
16	WOOD LOGO FURNISHED BY TENANT
17	MILLWORK RECEPTION DESK; COORDINATE FINAL LAYOUT AND FINISHES W/ TENANT

DOOR & FRAME SCHEDULE																						
DOOR NO.	ROOM NAME	DOOR					FRAME		HARDWARE													REMARKS (ALSO SEE NOTES)
		TYPE	PAIR	WIDTH	HEIGHT	MAT'L	TYPE	MAT'L	RATING	HINGE	LATCH SET	STRIKE	CLOSER	PUSH/PULL	KICKPLATE	STOP	MISC.	PANIC	THLD			
103.1	STUDIO 1	FG	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	-	-	C2	PP1	-	-	-	No	No	PROVIDE SILENCERS W/ FRAME		
103.2	STUDIO 1	FG	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	-	-	C2	PP1	-	-	-	No	No	PROVIDE SILENCERS W/ FRAME		
104.1	WOMEN'S LOCKER	F	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	-	-	C1	PP1	KP1	S1	-	No	No	PROVIDE SILENCERS W/ FRAME; CLOSER MOUNTED ON OUTSIDE OF FRAME		
104.2	WOMEN'S LOCKER	F	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	LS1	STR1	-	-	-	S1	-	No	No	PROVIDE SILENCERS W/ FRAME		
104.3	WOMEN'S LOCKER	F	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	LS1	STR1	-	-	-	S1	-	No	No	PROVIDE SILENCERS W/ FRAME		
105	MECHANICAL	F	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	LS2	STR1	C1	-	KP1	S1	M1	No	No	PROVIDE SILENCERS W/ FRAME		
106.1	MEN'S LOCKER	F	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	-	-	C1	PP1	KP1	S1	-	No	No	PROVIDE SILENCERS W/ FRAME; CLOSER MOUNTED ON OUTSIDE OF FRAME		
106.2	MEN'S LOCKER	F	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	LS1	STR1	-	-	-	S1	-	No	No	PROVIDE SILENCERS W/ FRAME		
107	STUDIO 2	FG	No	3' - 0"	7' - 0"	WD	1	HM	-	H1	-	-	C2	PP1	-	-	-	No	No	PROVIDE SILENCERS W/ FRAME		

DOOR & FRAME SCHEDULE

3 5/8" (GAUGE PER MFR.) METAL STUDS @ 16" O.C., W/ 3" THICK SOUND ATTENUATION BLANKET FULL HEIGHT IN WALL CAVITY, W/ ONE LAYER "XP" 5/8" GYP. BD. BOTH SIDES, W/ 1/2" WIDE SPACE AT FLOORS ENTIRE LENGTH OF GYP. BD., WALLS TO EXTEND 6" ABOVE CEILING, UNLESS NOTED OTHERWISE.

INTERIOR NON-RATED WALL

SCALE: 1"=1'-0"

3 5/8" (GAUGE PER MFR.) METAL STUDS @ 16" O.C., W/ 3 5/8" R=19 MIN FRICTION FIT SOUND BATT INSULATION FULL HEIGHT IN WALL CAVITY, W/ VAPOR BARRIER UNDER GYP. BD. ON STUDIO SIDE, W/ ONE LAYER "XP" 5/8" GYP. BD. BOTH SIDES, W/ ACOUSTICAL SEALANT BOTH SIDES OF BOTTOM RUNNER CHANNEL, W/ 1/2" WIDE SPACE AT FLOORS ENTIRE LENGTH OF GYP. BD., WALLS TO EXTEND 6" ABOVE CEILING, UNLESS NOTED OTHERWISE.

INTERIOR NON-RATED WALL

SCALE: 1"=1'-0"

3 5/8" (GAUGE PER MFR.) METAL STUDS @ 16" O.C., W/ ONE LAYER "XP" 5/8" GYP. BD. ON EXPOSED SIDE, W/ ACOUSTICAL SEALANT BOTH SIDES OF BOTTOM RUNNER CHANNEL, W/ 1/2" WIDE SPACE AT FLOORS ENTIRE LENGTH OF GYP. BD., WALLS TO EXTEND 6" ABOVE CEILING, UNLESS NOTED OTHERWISE.

INTERIOR NON-RATED WALL

SCALE: 1"=1'-0"

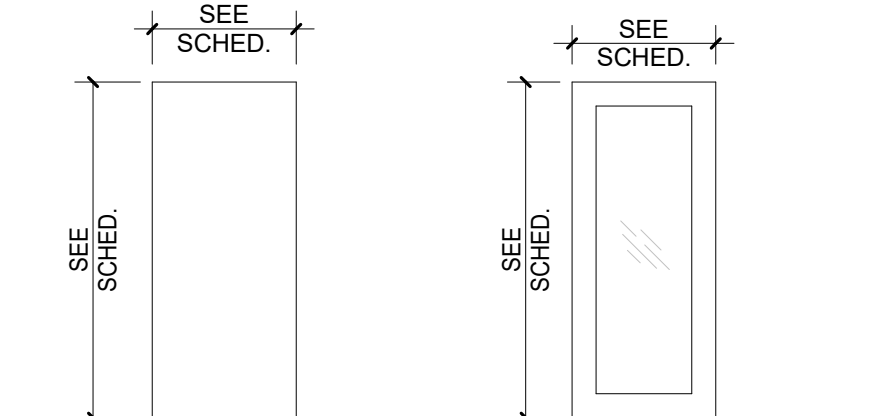
2 1/2" (GAUGE PER MFR.) METAL STUDS @ 16" O.C., W/ ONE LAYER "XP" 5/8" GYP. BD. ON EXPOSED SIDE, W/ ACOUSTICAL SEALANT BOTH SIDES OF BOTTOM RUNNER CHANNEL, W/ 1/2" WIDE SPACE AT FLOORS ENTIRE LENGTH OF GYP. BD., WALLS TO EXTEND 6" ABOVE CEILING, UNLESS NOTED OTHERWISE.

INTERIOR NON-RATED WALL

SCALE: 1"=1'-0"

VERTICAL ASSEMBLY TYPES

SCALE: 1"=1'-0"

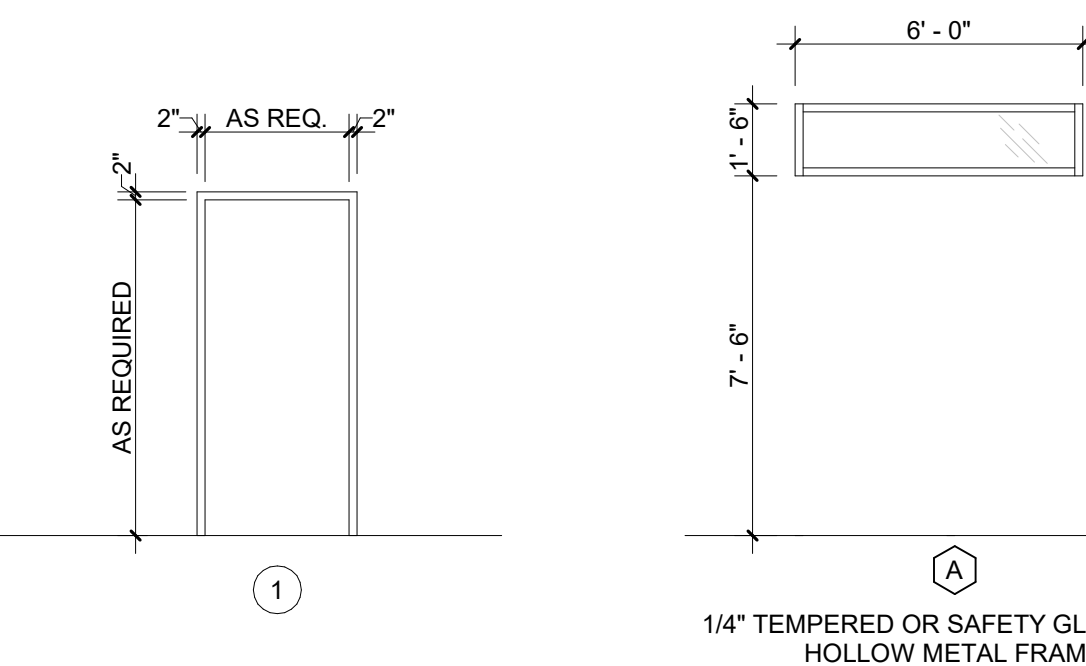


FLUSH DOOR
W/ SOLID CORE; PREMIUM
GRADE PLAIN SLICED BIRCH;
FLUSH W/ MATCHING EDGES

1/4" TEMPERED FULL GLASS
MEDIUM STILE DOOR W/ SOLID
CORE; PREMIUM GRADE PLAIN
SLICED BIRCH; FLUSH W/
MATCHING EDGES

DOOR TYPES

SCALE: 1/4" = 1'-0"



FRAME TYPES

SCALE: 1/4" = 1'-0"

WINDOW TYPES

SCALE: 1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

- REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS AND OTHER DISCIPLINES DOCUMENTS.
- ALL SITE INFO, FURNITURE, FIXTURES AND EQUIPMENT SHOWN SHOULD BE CONSIDERED CONCEPTUAL AND MAY HAVE BEEN PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO CIVIL, FIRE SUPPRESSION, PLUMBING, MECHANICAL, ELECTRICAL, COMMUNICATIONS, ELECTRONIC SAFETY & SECURITY DOCUMENTS &/OR CONSULTANTS FOR SPECIFIC DESIGN INFORMATION & REQUIREMENTS.
- DIMENSIONS ARE TO FACE OF FINISH MATERIAL OR CENTER OF STRUCTURE UNLESS OTHERWISE SPECIFIED.
- ALL CONDUITS, PIPES, WIRING, ROUGH-IN, ETC. SHOULD BE HELD AS TIGHT AS POSSIBLE TO THE ROOF OR FLOOR DECK OR SHOULD BE KEPT WITHIN INTERIOR WALL CAVITIES. NOTHING SHALL BE BELOW THE BOTTOM EDGE OF MAIN BUILDING FRAMES, NOTHING SHALL BE EXPOSED IN FINISHED SPACES, NOTHING SHALL PREVENT A SMOOTH CONTINUOUS FINISHED WALL OR CEILING AS NOTED ON THE DRAWINGS AND NO PLUMBING RAN IN EXTERIOR WALLS UNLESS PRIOR APPROVAL IS GRANTED BY THE ARCHITECT OR OWNER. PLACEMENT COORDINATION BETWEEN TRADES IS REQUIRED.
- INSTALL VERTICAL EXPANSION JOINT MINIMAL AT COLUMN/GRID LINES AND AT THE HEAD OF DOOR JAMBS/OPENINGS OR AS OTHERWISE NOTED OR WHERE REQUIRED PER STANDARD MATERIAL PRACTICE TO REDUCE STRESS CRACKING. NO CONTROL JOINT/EXPANSION JOINT IN LOAD BEARING AREAS, STAY AWAY 2'-6" MIN.
- CAULK & SEAL ALL CONTROL-EXPANSION, SAWCUT JOINTS AT ALL INTERIOR & EXTERIOR MASONRY & CONCRETE.

GENERAL DOOR, FRAME, & HARDWARE NOTES

- REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS AND OTHER DISCIPLINES DOCUMENTS.
- ALL LOCKS SHALL BE REMOVABLE CYLINDER TYPE, MASTER KEYED/CONTRACTOR TO COORDINATE KEYING WITH OWNER
- ALL HARDWARE TO BE HEAVY DUTY COMMERCIAL GRADE. FINISH PER SCHEDULE. BRUSHED STAINLESS STEEL IS AN ACCEPTABLE ALTERNATIVE FINISH.
- DOORS TO ROOMS WITH ELECTRICAL SERVICES OF 800 AMPS OR GREATER WILL REQUIRE PANIC EXIT HARDWARE ON ALL DOORS.
- ALL INTERIOR DOORS: (UNLESS OTHERWISE NOTED)
 - SHALL BE FLUSH, SOLID-CORE, WOOD
 - DOORS BETWEEN FULL HVAC AND REDUCED HVAC SPACES SHALL BE FULLY INSULATED.
 - FRAMES SHALL BE HEAVY DUTY HOLLOW METAL CONSTRUCTION.
 - SHALL HAVE LEVER STYLE ADA DOOR HANDLES AND/OR PULLS.
 - SHALL HAVE HEAVY DUTY HINGES.
 - SHALL HAVE SILENCERS.
 - SHALL HAVE CORRESPONDING DOORSTOPS (WALL OR OVERHEAD MOUNTED).
 - SHALL HAVE CLOSERS, LOCKS & SPECIFIC HARDWARE AS NOTED ON DOOR SCHEDULE.
- ALL GLASS: (UNLESS OTHERWISE NOTED)
 - IN INTERIOR DOORS AND FRAMES TO BE 1/4" CLEAR.
 - SHALL BE TEMPERED, LAMINATED AND/OR RATED WHERE REQUIRED BY AUTHORITIES.
- REFER TO MEP DOCS OR MEP SCOPE FOR CARD READER / SECURITY SYSTEM REQUIREMENTS.

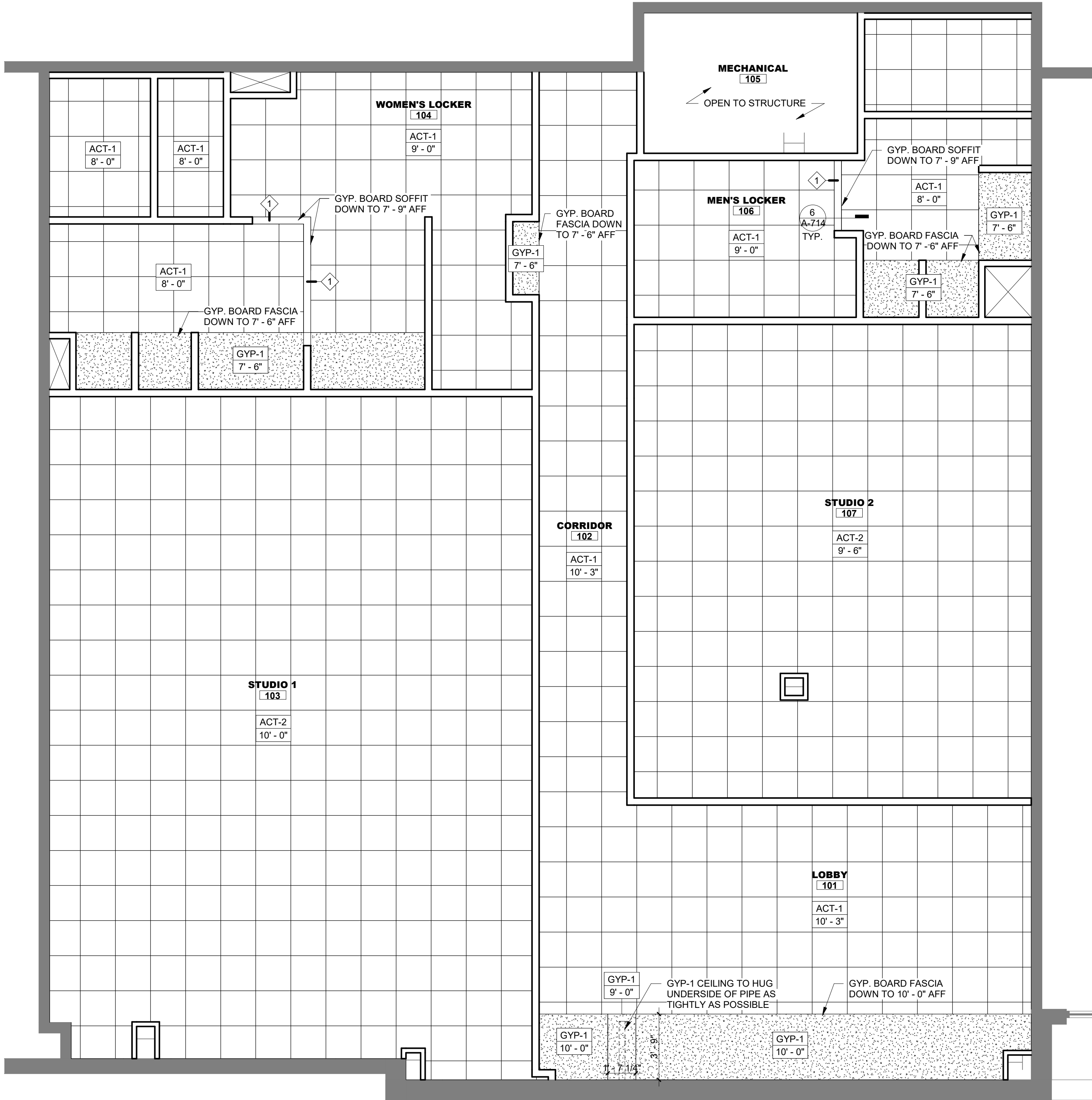
HARDWARE LEGEND

HINGE		PUSH/PULL	
H1	MFR: Stanley Model: FBB179 Size: 4-1/2" x 4-1/2" Finish: US32D Quantity: 3	PP1	MFR: Burns Model: M424 X 12", #5 Mounting Finish: US32D Quantity: 2 (1 per side)
LATCH		KICKPLATE	
LS1	Type: Privacy MFR: Falcon Model: W301S D Finish: 626	KP1	MFR: Burns Model: KP50 Size: 10" x 34" Finish: US32D Quantity: 2 (1 per side)
LS2	Type: Passage MFR: Falcon Model: W581PD D Abrasive/OS Finish: 626	STOP S1	Type: Wall MFR: Ives Model: WS407CCV Finish: US32D
STRIKE		MISCELLANEOUS	
STR1	Type: Manufacturer's Standard	M1	Type: Gasket MFR: Pemko Model: 588 D per foot
CLOSER			
C1	MFR: LCN Model: 1461 Function: R Finish: Aluminum		
C2	MFR: LCN Model: 1461 Function: CNS-HO Finish: Aluminum		

FLOOR PLAN

Sheet No.

A-101



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"
NORTH

GENERAL REFLECTED CEILING

PLAN NOTES:

- REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS AND OTHER DISCIPLINES DOCUMENTS.
- ALL FIXTURES AND EQUIPMENT, INCLUDING LIGHT FIXTURES, SHOWN SHOULD BE CONSIDERED CONCEPTUAL AND MAY HAVE BEEN PROVIDED TO CONVEY DESIGN INTENT AND FOR COORDINATION PURPOSES ONLY. REFER TO FIRE SUPPRESSION, PLUMBING, MECHANICAL, ELECTRICAL, LIGHTING, COMMUNICATIONS, ELECTRONIC SAFETY & SECURITY DOCUMENTS &/OR CONSULTANTS FOR SPECIFIC CODE & DESIGN INFORMATION & REQUIREMENTS.
- COORDINATE LOCATIONS OF ALL LIGHT SWITCHES & SWITCHING, ELECTRICAL & COMMUNICATION OUTLETS AND THERMOSTATS WITH TENANT/OWNER PRIOR TO CONSTRUCTION.
- CENTER SPRINKLER HEADS IN ALL CEILING TILES OR CEILING ASSEMBLIES.

CEILING MATERIAL LEGEND		
MAT. LABEL	MATERIAL DESCRIPTION	HEIGHT
ACT-1	24" x 24" X 5/8" ACOUSTICAL CEILING TILE; MFR- ARMSTRONG; SERIES- FINE FISSURE; MODEL- 1831; EDGE PROFILE- SQUARE; COLOR- TECH BLACK (BL); GRID- 15/16" EXPOSED TEE, BLACK	VARIABLES; SEE RCP
ACT-2	24" x 24" X 5/8" ACOUSTICAL CEILING TILE W/ BATT INSULATION (R-19) ABOVE TILES; MFR- ARMSTRONG; SERIES- FINE FISSURE; MODEL- 1831; EDGE PROFILE- SQUARE; COLOR- TECH BLACK (BL); GRID- 15/16" EXPOSED TEE, BLACK	VARIABLES; SEE RCP
GYP-1	GYP. BD SOFFIT; 5/8" "XP" GYP. BD. ON CEILING JOIST @ 16" O.C., TRIM AS REQUIRED; PT-2	VARIABLES; SEE RCP

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STATE OF MISSOURI

MICHAEL WAYNE SIMONSON

No. A008135

ARCHITECT

2021-04-29

POWER LIFE
940 NW PRYOR RD
LEE'S SUMMIT, MO 64081

Rev. #	Issue / Revision	Date
1	PERMIT PLANS	04/29/2021

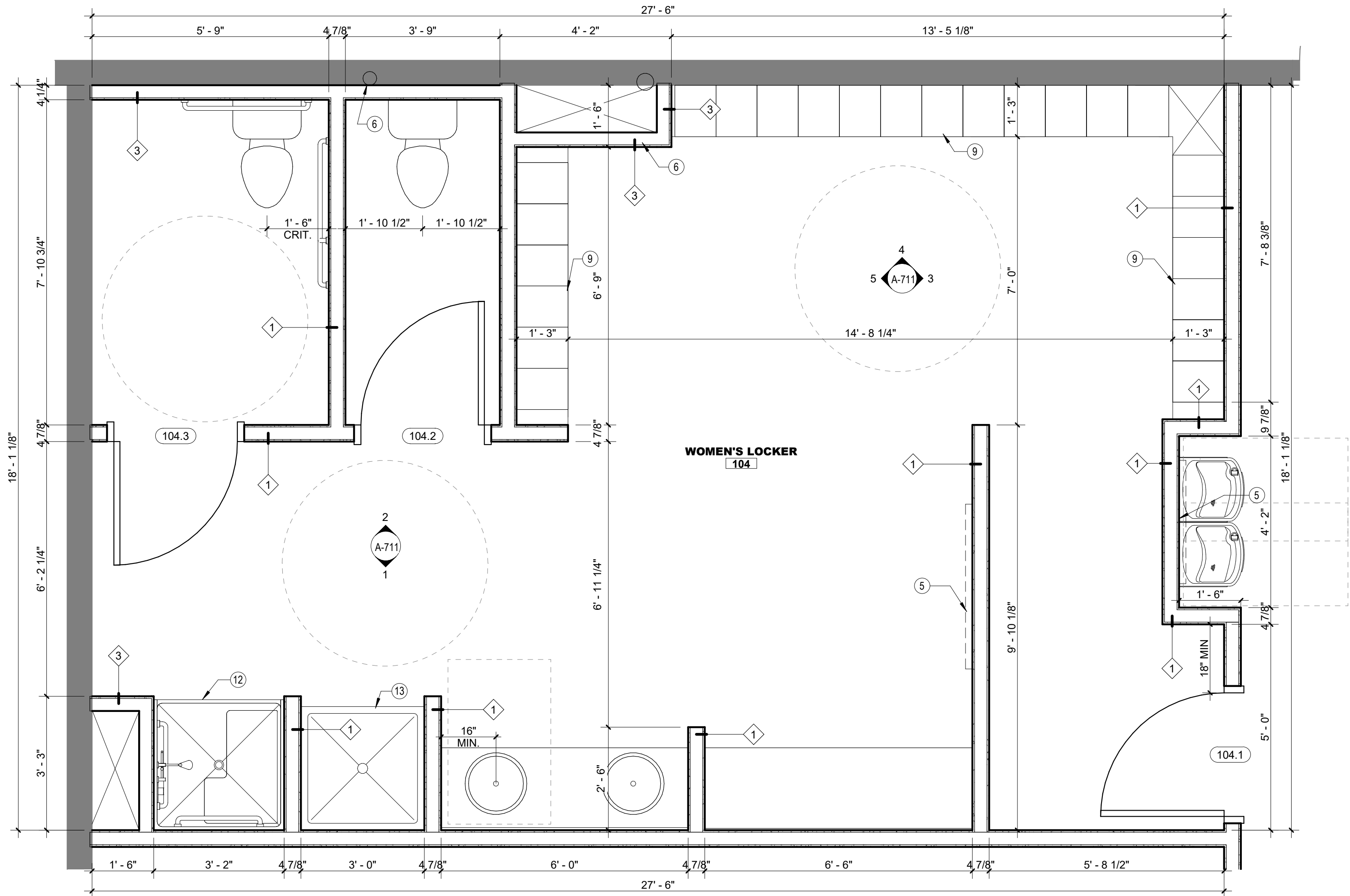
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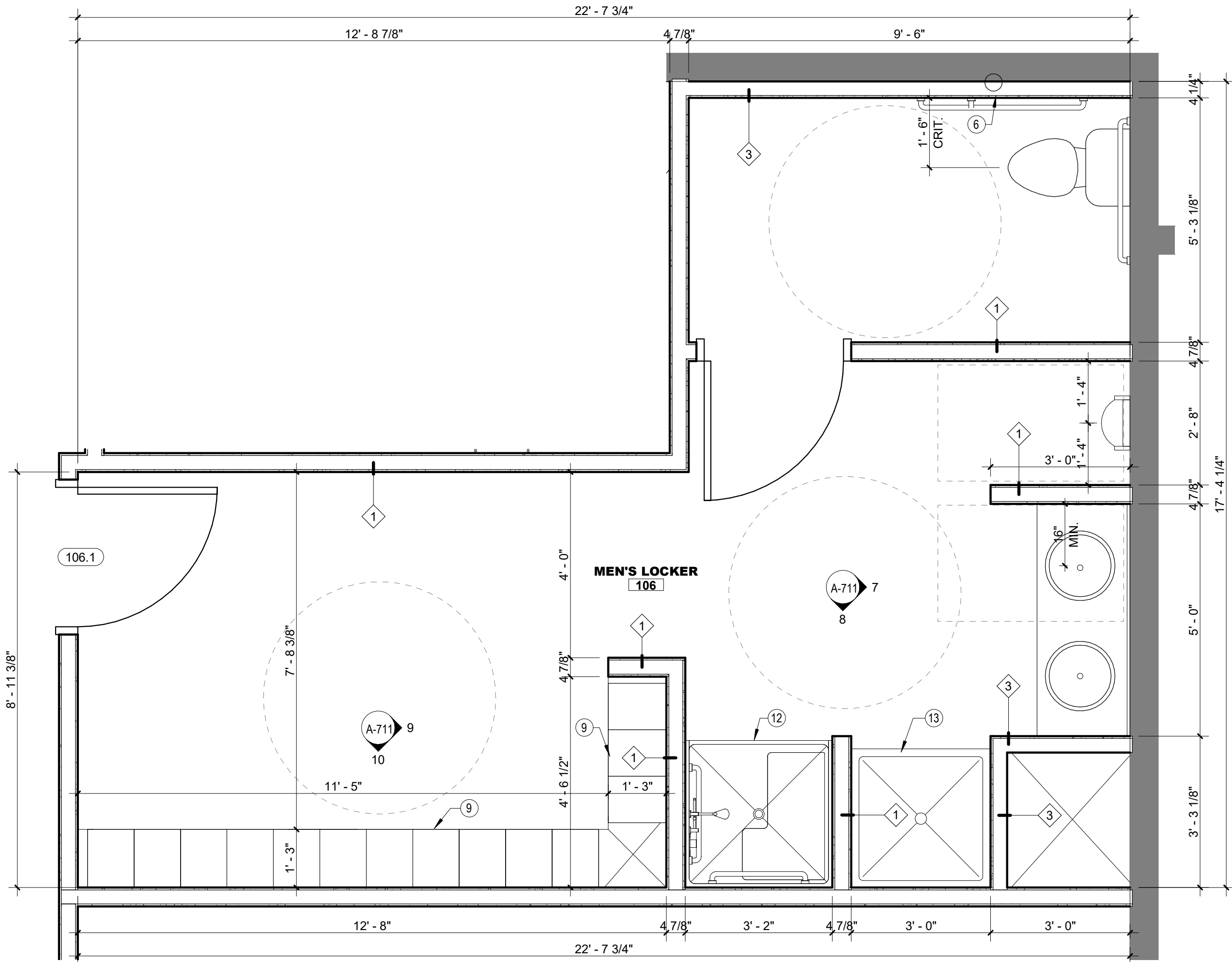
**REFLECTED
CEILING PLAN**

Sheet No.

A-121



1 WOMEN'S ENLARGED RESTROOM PLANS
SCALE: 1/2" = 1'-0"



2 MEN'S ENLARGED RESTROOM PLANS
SCALE: 1/2" = 1'-0"

GENERAL RESTROOM NOTES

- REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS AND OTHER DISCIPLINES DOCUMENTS.
- ALL PLUMBING FIXTURES SHOWN ON THIS SHEET IS PROVIDED FOR COORDINATION PURPOSES ONLY. REFER TO PLUMBING DOCUMENTS FOR SPECIFIC DESIGN INFO.
- ALL RESTROOMS, FIXTURES & ACCESSORIES SHALL BE COMMERCIAL GRADE AND SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
- PROVIDE ADEQUATE BLOCKING FOR ALL RESTROOM FIXTURES AND EQUIPMENT.
- ADD GFI POWER UNDER SINKS OR AROUND WATER CLOSETS IF AUTO-CONTROLS.
- FIXTURE & ACCESSORY MOUNTING HEIGHTS ARE AS FOLLOWS:
 - DRINKING FOUNTAIN & WATER COOLER:
 - SPOUT HEIGHT: NO HIGHER THAN 36" AFF.
 - CONTROLS HEIGHT: SEE BELOW.
 - WATER CLOSET HEIGHT: 17"-19" TO TOP OF TOILET SEAT.
 - URINAL RIM HEIGHT: 17" AFF.
 - GRAB BAR CENTER MOUNTING HEIGHT: 33"-36" AFF.
 - GRAB BARS TO BE 1-1/4"-1-1/2" DIA. W/ GRIPPABLE SURFACE.
 - TOILET PAPER DISPENSER CENTER MOUNTING HEIGHT: 19" AFF.
 - LAVATORY RIM OR COUNTER HEIGHT: NO HIGHER THAN 34" AFF.
 - MIRROR HEIGHT: BOTTOM EDGE NO HIGHER THAN 40" AFF.
 - CONTROLS HEIGHT AND REACH RANGES ARE AS FOLLOWS:
 - FORWARD APPROACH: 15"-48" AFF; OVER OBJECT 44" AFF MAX.
 - SIDE APPROACH: 9"-54" AFF; OVER OBJECT 46" AFF MAX.

GENERAL FIXTURE & EQUIP. NOTES

- PROVIDE THE FOLLOWING RESTROOM FIXTURES IN WHITE VITREOUS CHINA FINISH UNLESS OTHERWISE INDICATED OR APPROVED, AS REPRESENTED IN DOCUMENTS.
 - FLOOR MOUNT TANK TYPE WATER CLOSETS.
 - UNDERCOUNTER WITH OVERFLOW LAVATORY.**WATER CLOSET AREA:**
 - (1) SURFACE MOUNT DOUBLE TOILET PAPER DISPENSER PER WATER CLOSET.
 - (1) SANITARY NAPKIN DISPOSAL PER WOMENS WATER CLOSET.
 - (1) COAT HOOK PER WATER CLOSET/URINAL.**SHOWER / TUB AREA:**
 - (1) TOWEL HOOK PER SHOWER.**MISC.**
 - (1) FLOOR DRAIN WITH TRIM FLUSH WITH FINISHED FLOOR PER RESTROOM.
 - (1) EXHAUST FAN PER RESTROOM.
- TENANT PROVIDING THE FOLLOWING RESTROOM ACCESSORIES.
 - (1) PAPER TOWEL DISPENSER PER RESTROOM.
 - (1) MEDIUM-SIZED TRASH RECEPTACLE PER RESTROOM.
 - (1) LIQUID SOAP DISPENSER PER LAVATORY.

KEYNOTES

Note #	Description
1	PROVIDE SOLID BLOCKING IN WALL AS REQUIRED FOR TENANT FURNISHED CORNER SHELF; COORDINATE EXACT PLACEMENT W/ TENANT
2	OWNER PROVIDED WALL SHELF; COORDINATE EXACT PLACEMENT W/ TENANT
3	PROVIDE SOLID BLOCKING IN WALL FOR TENANT FURNISHED WALL MOUNTED BARRE SYSTEM; COORDINATE EXACT PLACEMENT W/ TENANT
4	PROVIDE SOLID BLOCKING IN WALL 12' - 0" WIDE FOR TENANT FURNISHED WALL ANCHORED RETAIL SHELVING; COORDINATE EXACT PLACEMENT W/ TENANT
5	PROVIDE SOLID BLOCKING IN WALL FOR TENANT FURNISHED TELEVISION AND MOUNTING BRACKET; COORDINATE EXACT SIZE AND HEIGHT W/ TENANT
6	PROVIDE ACCESS PANEL TO CLEAN-OUT
7	CLEAR GLASS MIRRORRED WALL PANELS (SEE M-1 ON A-701)
9	PRE-FABRICATED WOOD LOCKER; PROVIDE MATCHING SCRIBE STRIPS AT ENDS AS REQUIRED; VERIFY FINAL CONFIGURATION W/ TENANT (SEE LKR-1 ON A-701)
10	ALL-IN ONE WASHER/DRYER FURNISHED BY TENANT
11	WALL MOUNTED BARRE SYSTEM FURNISHED BY TENANT
12	ADA COMPLIANT SHOWER ENCLOSURE, SEAT, AND HAND SHOWER; SHOWER CURTAIN AND ROD
13	SHOWER ENCLOSURE; FROSTED GLASS DOOR
14	UNDERCOUNTER REF. FURNISHED BY OWNER
15	BUILT-IN MAT BOX OPEN ON EMPLOYEE SIDE
16	WOOD LOGO FURNISHED BY TENANT
17	MILLWORK RECEPTION DESK; COORDINATE FINAL LAYOUT AND FINISHES W/ TENANT

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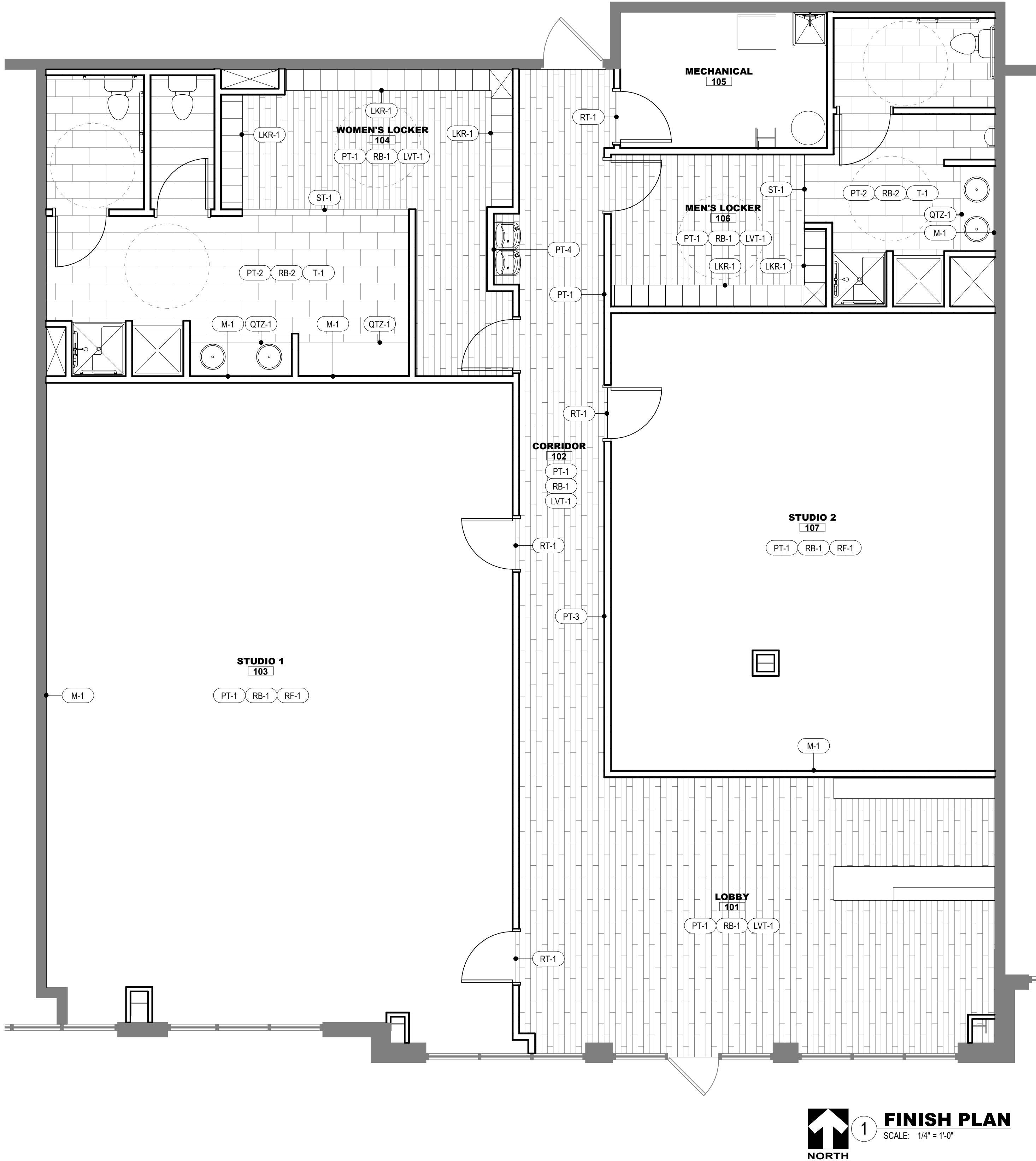
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Sheet Title

**RESTROOM
PLANS**

Sheet No.

A-401



1 FINISH PLAN
SCALE: 1/4" = 1'-0"

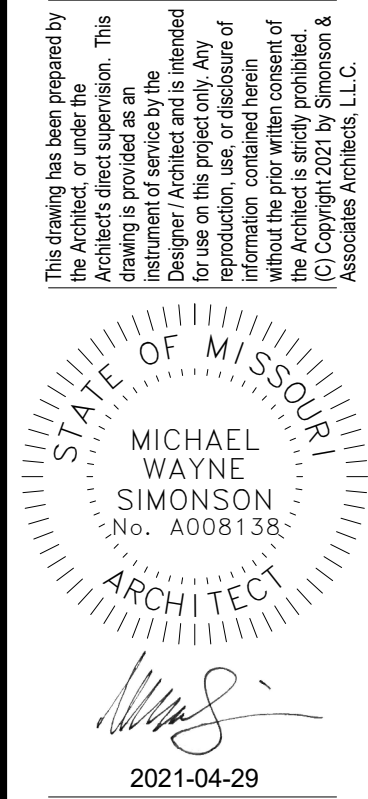
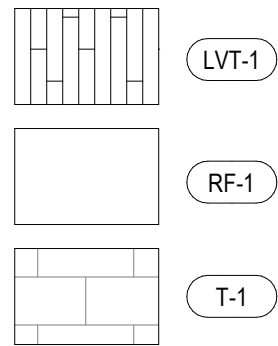
GENERAL FINISH NOTES

- 1. REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS AND OTHER DISCIPLINES DOCUMENTS.
- 2. OWNER TO APPROVE ALL FINAL MATERIAL SELECTIONS/COLORS BEFORE BIDDING, ORDERING, FABRICATION AND/OR INSTALLATION.
- 3. ALL GYPSUM BOARD SURFACES TO BE SMOOTH FINISH UNLESS OTHERWISE NOTED, PROPERLY FASTENED TO ELIMINATE "NAIL POPPING", TAPED, MUDDED AND SANDED, READY FOR FINISH. PROVIDE MOISTURE RESISTANT DRYWALL AT ALL WET WALL LOCATIONS AND ENTIRE REST ROOM.
- 4. ALL PAINT FINISH SHALL BE PRIMED FOLLOWED BY 2 COATS OF HIGH QUALITY FINISH PAINT. GYPSUM BOARD WALLS SHALL BE MIN. EGGSHELL LATEX PAINT (UNLESS NOTED OTHERWISE), GYPSUM BOARD CEILINGS SHALL BE EPOXY PAINT, INTERIOR METALS SHALL BE EPOXY PAINT.
 - a. ALL RESTROOMS AND WET WALLS SHALL BE PAINTED WITH EPOXY PAINT.
 - b. ALL INTERIOR PAINTS USED TO BE LOW V.O.C. UNLESS NOTED OTHERWISE.
 - c. IF SMOOTH SURFACE, MATERIAL SHOULD BE SANDED BETWEEN ALL COATS. ALL STEEL DOORS & METAL FRAMES SHALL BE SPRAY APPLIED PAINT.
- 5. PRIMER ONLY BEHIND WALL MIRRORS.
- 6. APPROPRIATE LOW PROFILE VINYL TRANSITION STRIP SHALL BE USED BETWEEN DISSIMILAR FLOORING MATERIALS.
- 7. FRP PANELS AROUND MOP SINK TO 12" ABOVE FAUCET & 12" BEYOND SINK BASIN.
- 8. CAULKS OR SEALANTS USED TO MATCH ADJACENT MATERIAL COLOR, REVEAL COLORS OR GROUT COLORS.
- 9. CONTRACTOR TO INSTALL COAT HOOKS ON BACKS OF ALL RESTROOM DOORS. VERIFY WITH TENANT PRIOR TO CONSTRUCTION ORDER AND INSTALLATION.
- 10. CONTRACTOR TO SUBMIT SAMPLES FOR APPROVAL OF ALL INTERIOR FINISH MATERIALS INCLUDING BUT NOT LIMITED TO PAINT DRAW DOWNS, PLASTIC LAMINATES, MILLWORK FINISHES, CARPET, ETC.

MATERIAL LEGEND

- WALLS
- PT-1 FIELD PAINT; SHERWIN WILLIAMS DURATION SERIES- 7015 REPOSED GRAY; EGG SHELL FINISH
 - PT-2 EPOXY PAINT; SHERWIN WILLIAMS PRO INDUSTRIAL CATALYZED EPOXY SERIES- 7015 REPOSED GRAY
 - PT-3 ACCENT PAINT; SHERWIN WILLIAMS DURATION SERIES- 6258 TRICORN BLACK; EGG SHELL FINISH
 - PT-4 ACCENT PAINT; SHERWIN WILLIAMS DURATIONS SERIES- 6887 NAVEL; EGG SHELL FINISH
 - RB-1 4" VINYL COVE BASE; VPI- BLACK
 - RB-2 6" VINYL COVE BASE; VPI- BLACK
- FLOORS
- LVT-1 FIELD LUXURY VINYL TILE; J&J FLOORING: ALLOY- V5008, COLOR- MELTING 1054; INSTALL PATTERN: 1/3 DROP
 - RF-1 6'-0"W x 60'-0"L x 0.08" THICK RESILIENT FLOORING; LONSEAL: LONWOOD NATURAL TOPSEAL, COLOR- SINGING BIRDS W7467
 - T-1 12" X 24" TILE; INTERCERAMIC: CONCRETE, COLOR- DARK GRAY; INSTALL PATTERN: ASHLAR; MAPEI GROUT: ULTRA COLOR, COLOR- CHARCOAL 47
- MILLWORK
- MW-1 MILLWORK; BLACK COMPOSITE BOARD; COLOR TO MATCH PL-1; VERIFY W/ OWNER
 - MW-2 MILLWORK; PLYWOOD COVERED IN OWNER PROVIDED WOOD FLOORING
 - PL-1 PLASTIC LAMINATE; FORMICA- BLACK 909-58
 - QTZ-1 30 MM QUARTZ COUNTER; COLORQUARTZ: OYSTER SHELL CQ808; FINISH- POLISHED; EDGE DETAIL- EASED
- MISC.
- DOORS POLYURETHANE STAIN; MATCH GRAHAM CLEAR #100; FINISH- SATIN
 - FRAMES EPOXY PAINT; SHERWIN WILLIAMS PRO INDUSTRIAL CATALYZED EPOXY SERIES- 6993 BLACK OF NIGHT; FINISH- SEMI-GLOSS
 - LKR-1 LOCKER; MFR: LEGACY LOCKERS; FINISH: PLASTIC LAMINATE; COLOR: WILSONART-SATIN STAINLESS; 4830K-18 WITH STANDARD WHITE MELAMINE INTERIORS AND FLAME NUMBER DETAILS
 - M-1 MIRROR WALL PANEL; IMPACT RESISTANT AND SHATTER PROOF; TEMPERED OR SAFETY LAMINATE; PRIMER ONLY BEHIND MIRROR WALL PANEL
 - ST-1 SCHLUTER TRIM; SCHLENE- SATIN ANODIZED ALUMINUM AE; INSTALLED TILE TO LVT
 - RT-1 RUBBER TRANSITION: JOHNSONITE: SLT-A SLIMLINE TRANSITION- BACK 40; INSTALLED RESILIENT TO LVT
 - VF-1 VINYL FILM; FROSTED FILM FLAME LOGO & LETTERING CUT OUT; COORDINATE W/ TENANT

FLOORING LEGEND



Rev. #	Issue / Revision	Date
1	PERMIT PLANS	04/29/2021

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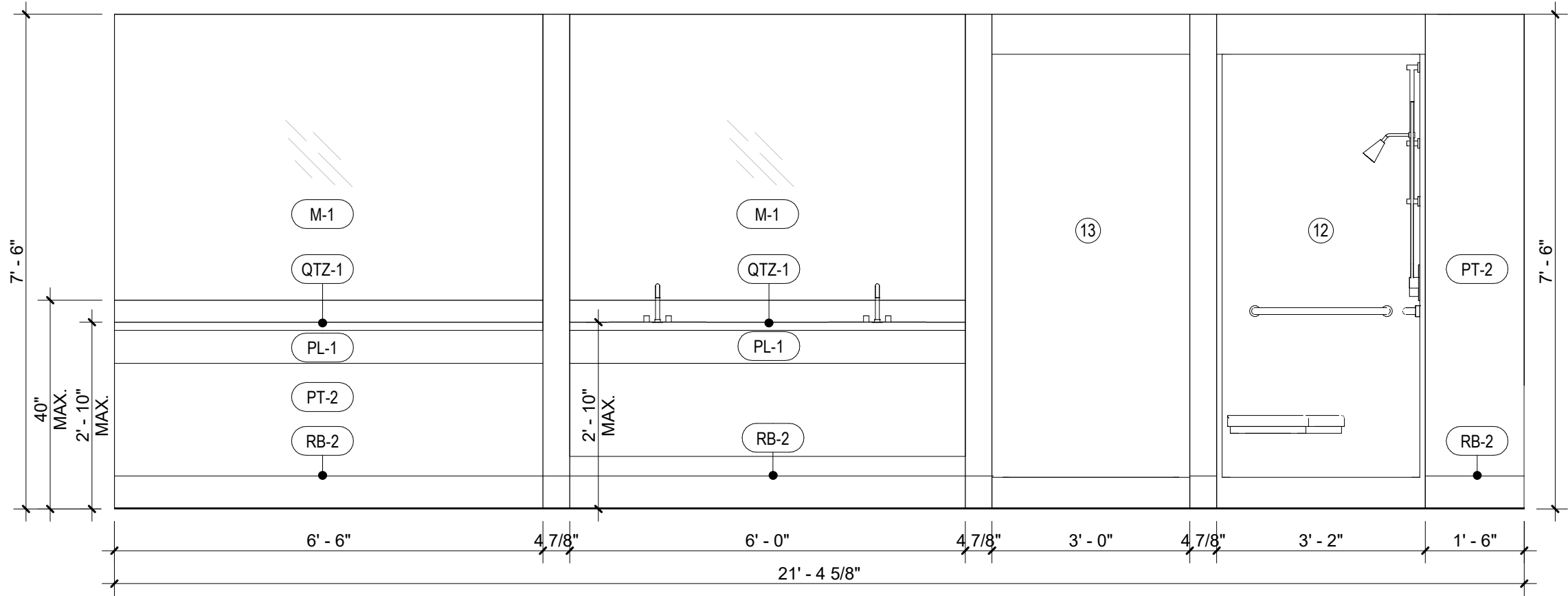
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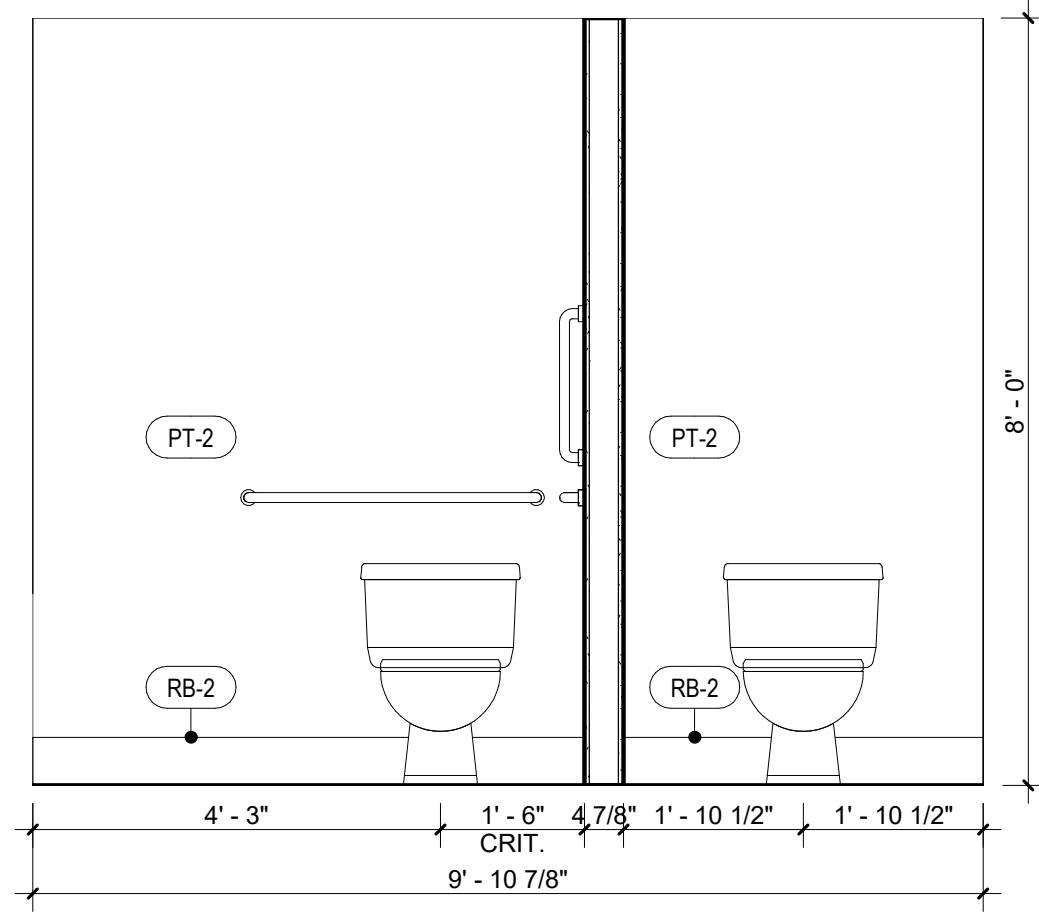
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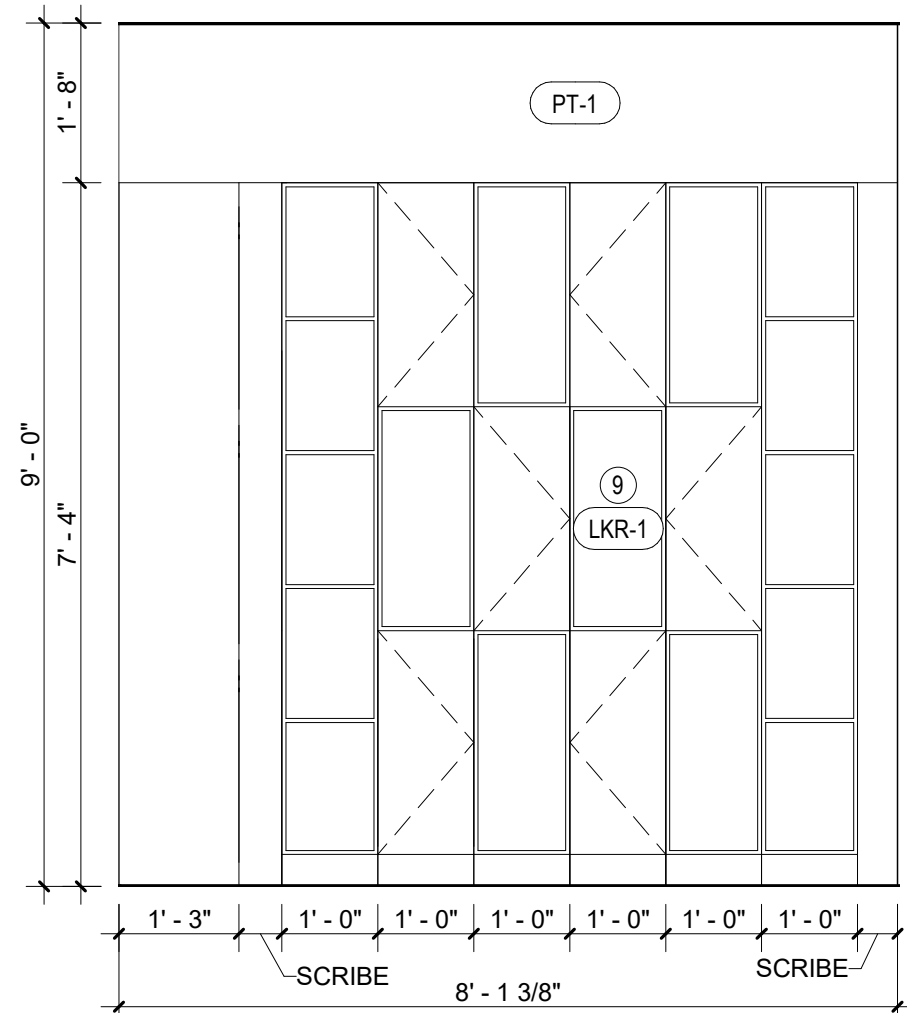
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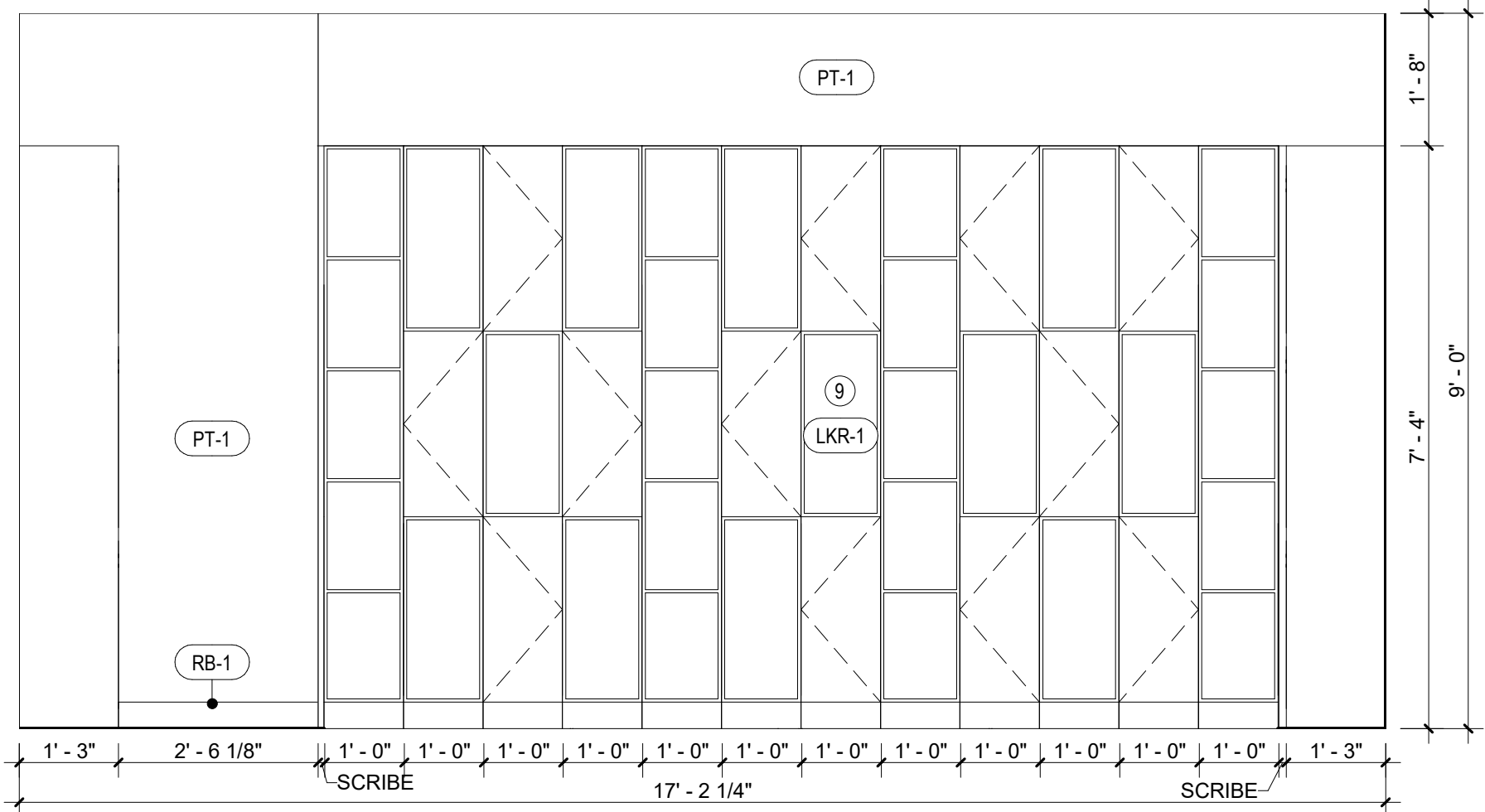
1 **WOMEN'S SHOWERS AND LAVATORY**
SCALE: 1/2" = 1'-0"



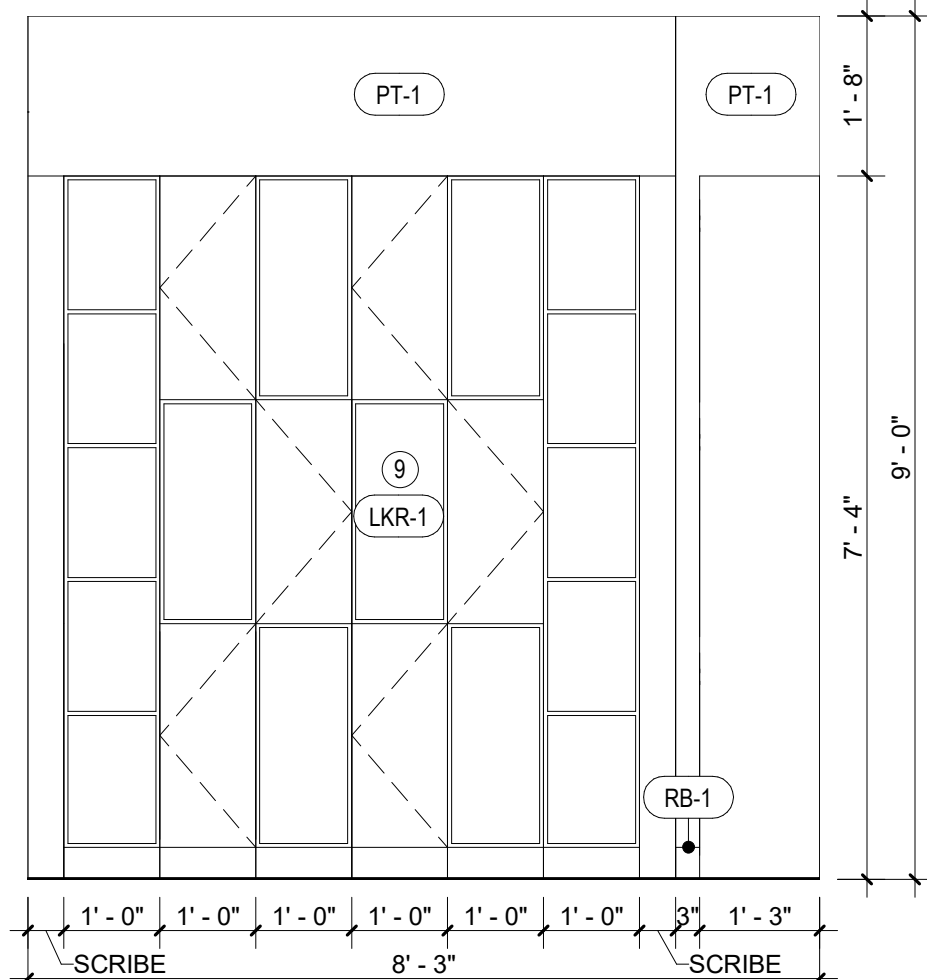
2 **WOMEN'S WATER CLOSET**
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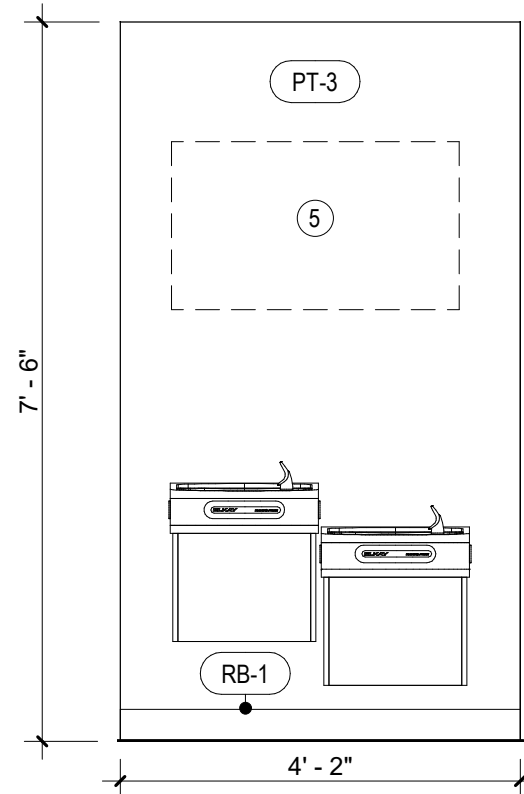
3 **WOMEN'S LOCKER NORTH**
SCALE: 1/2" = 1'-0"



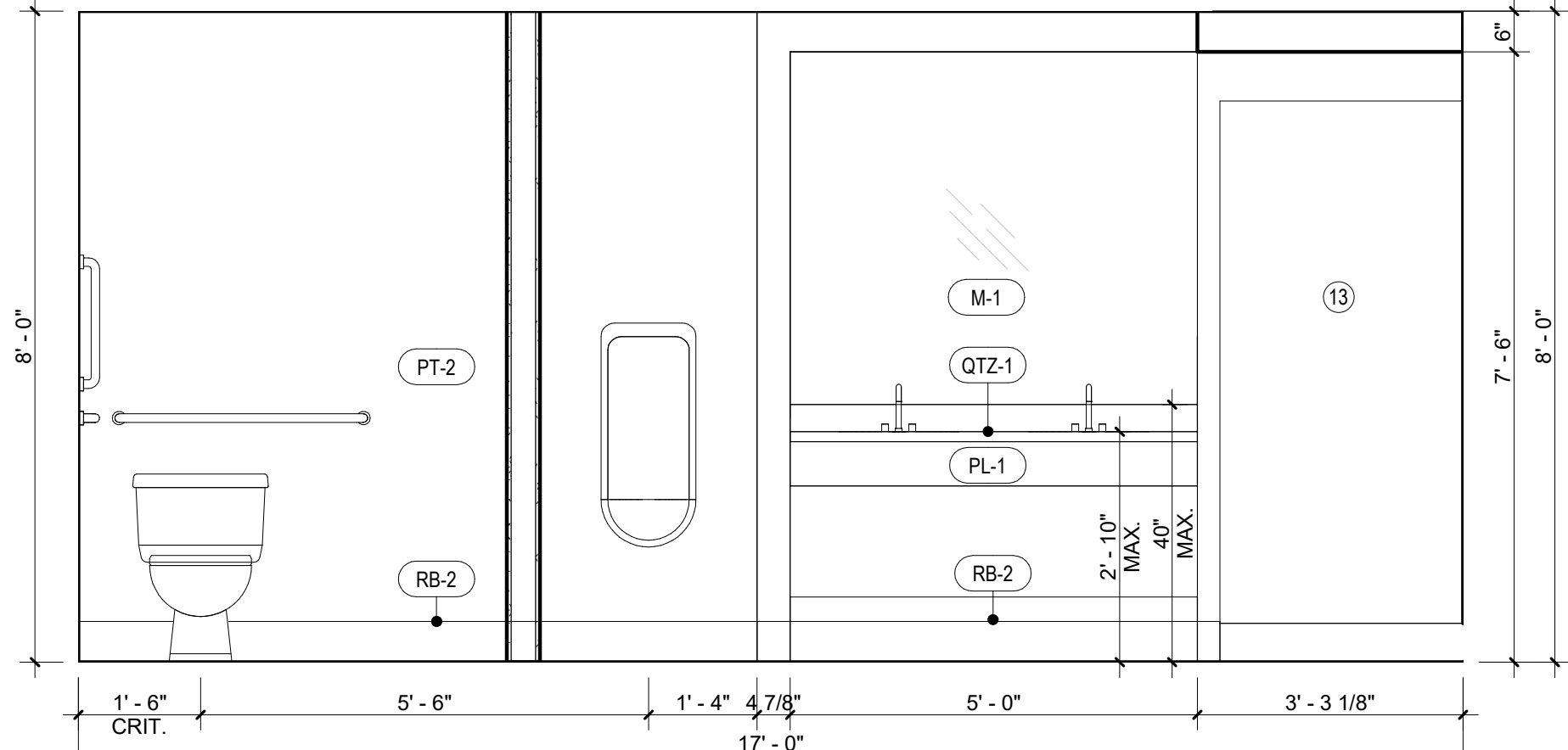
4 **WOMEN'S LOCKER WEST**
SCALE: 1/2" = 1'-0"



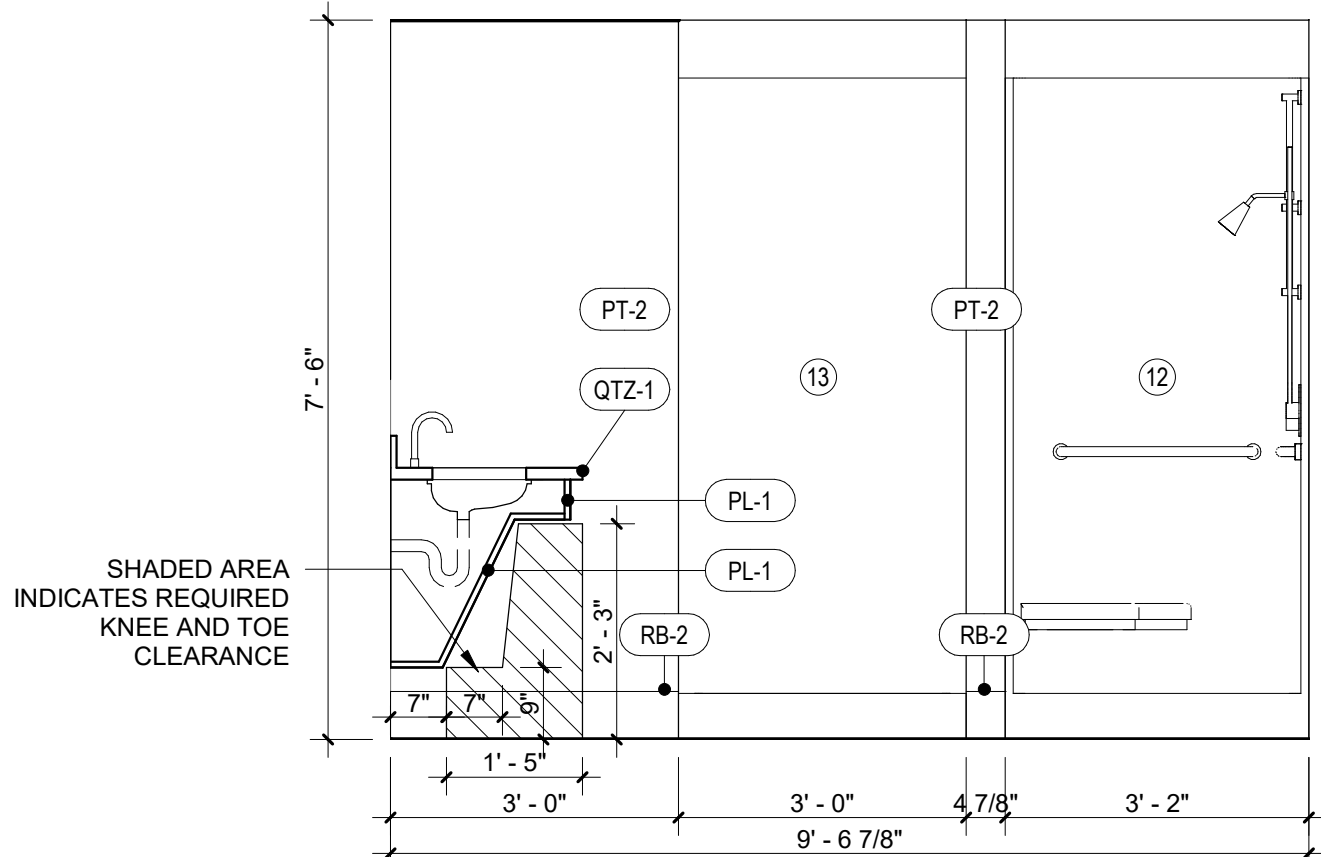
5 **WOMEN'S LOCKER SOUTH**
SCALE: 1/2" = 1'-0"



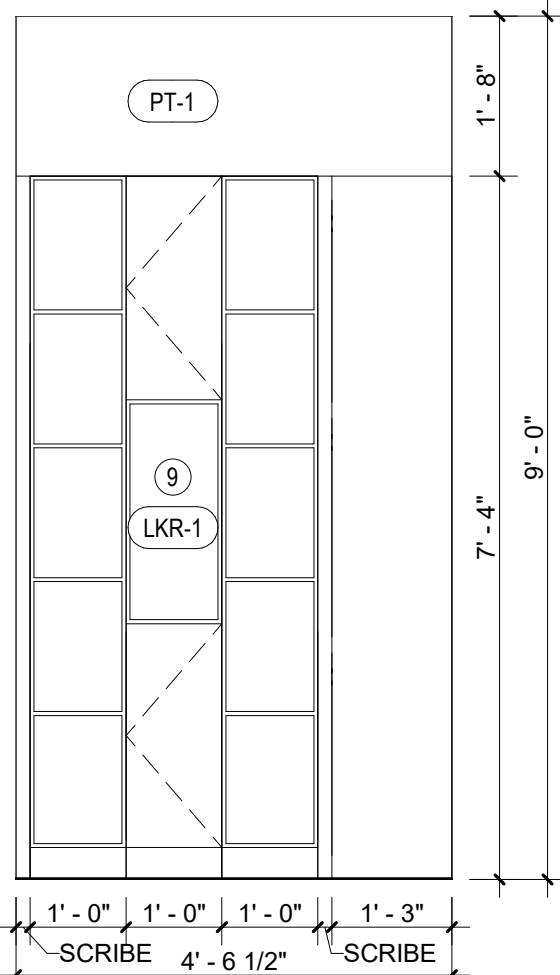
6 **DRINKING FOUNTAIN**
SCALE: 1/2" = 1'-0"



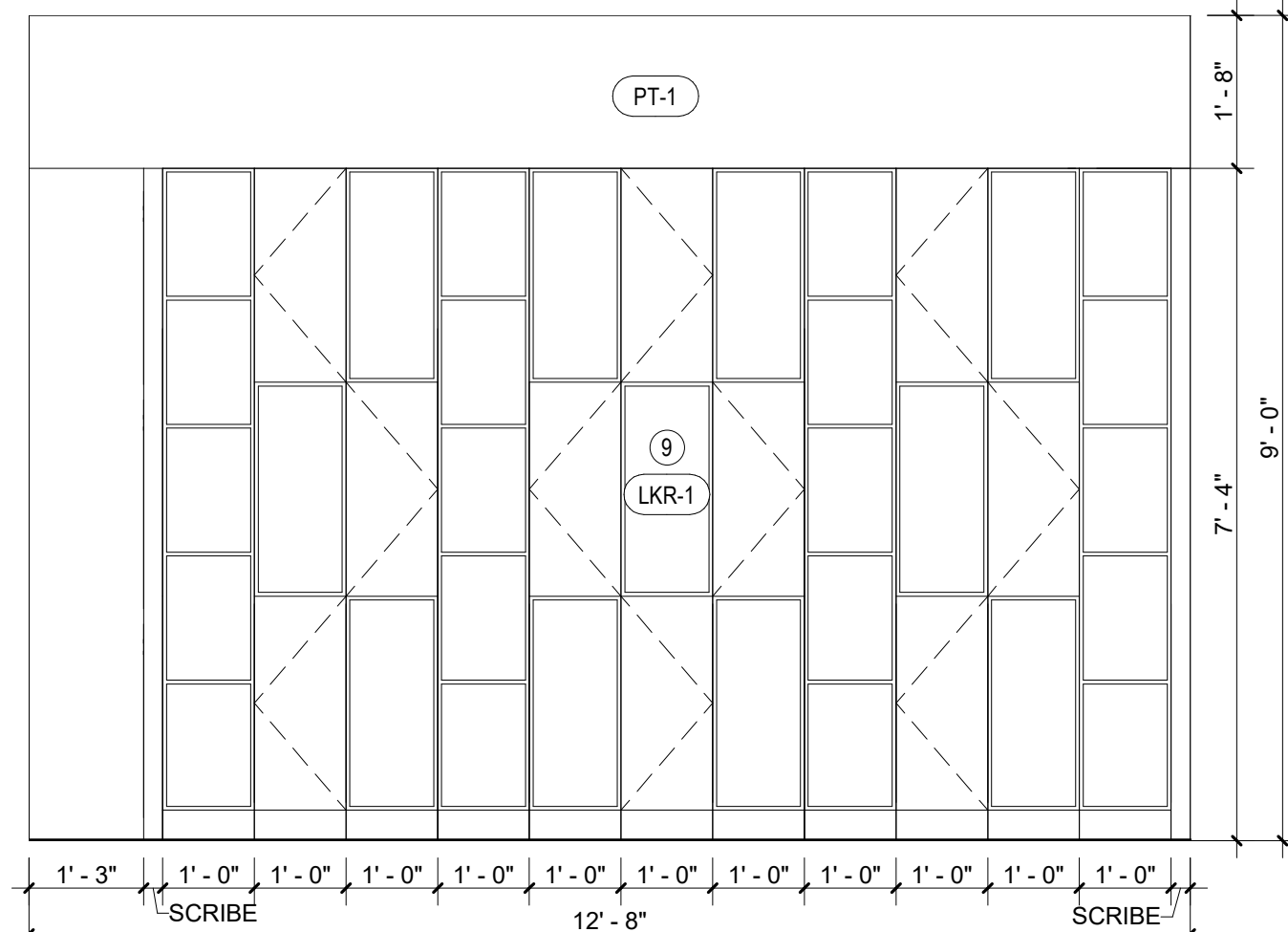
7 **MEN'S LAVATORY & WATER CLOSET**
SCALE: 1/2" = 1'-0"



8 **MEN'S SHOWER**
SCALE: 1/2" = 1'-0"



9 **MEN'S LOCKER NORTH**
SCALE: 1/2" = 1'-0"



10 **MEN'S EAST LOCKERS**
SCALE: 1/2" = 1'-0"

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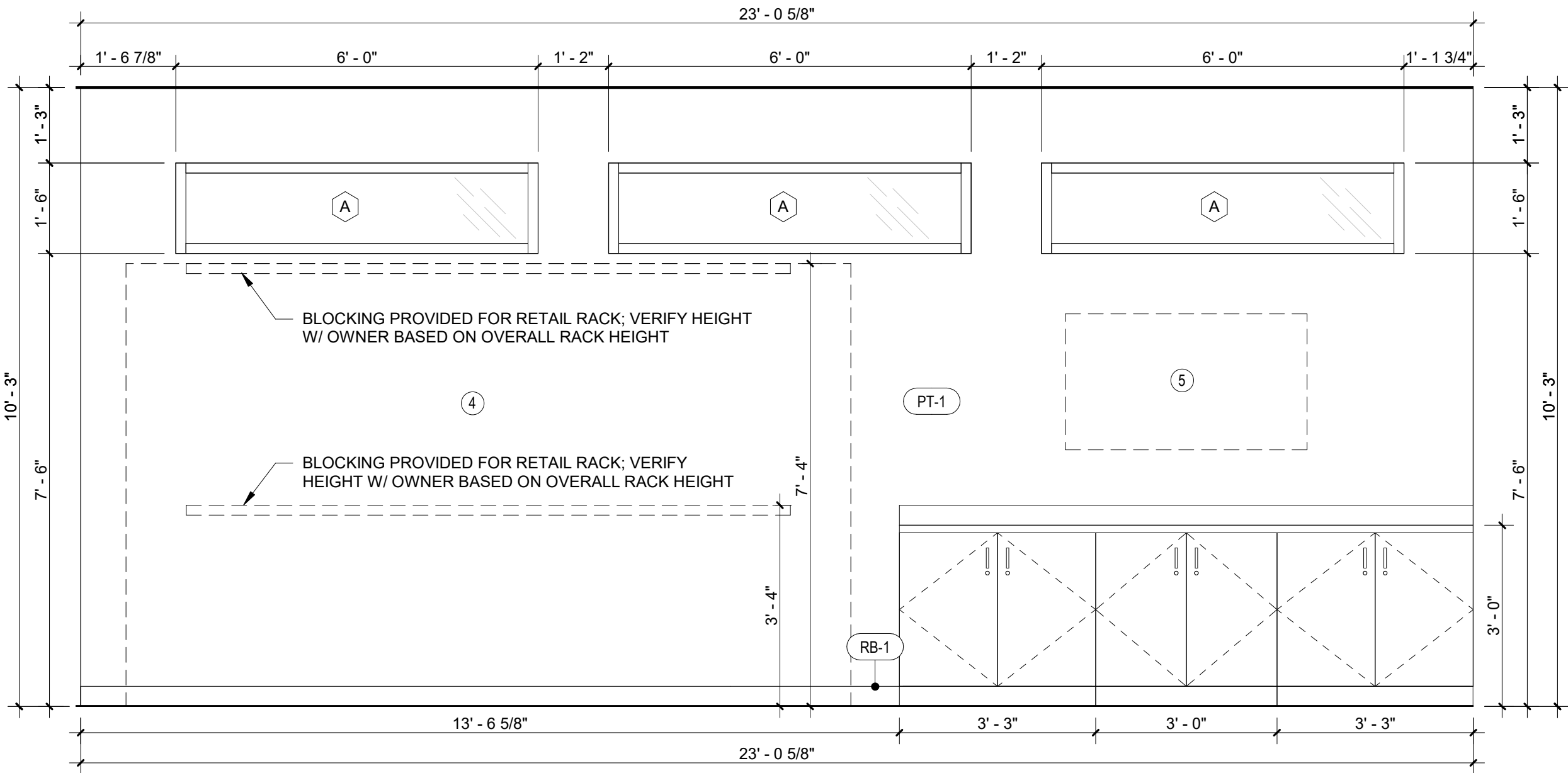
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**INTERIOR
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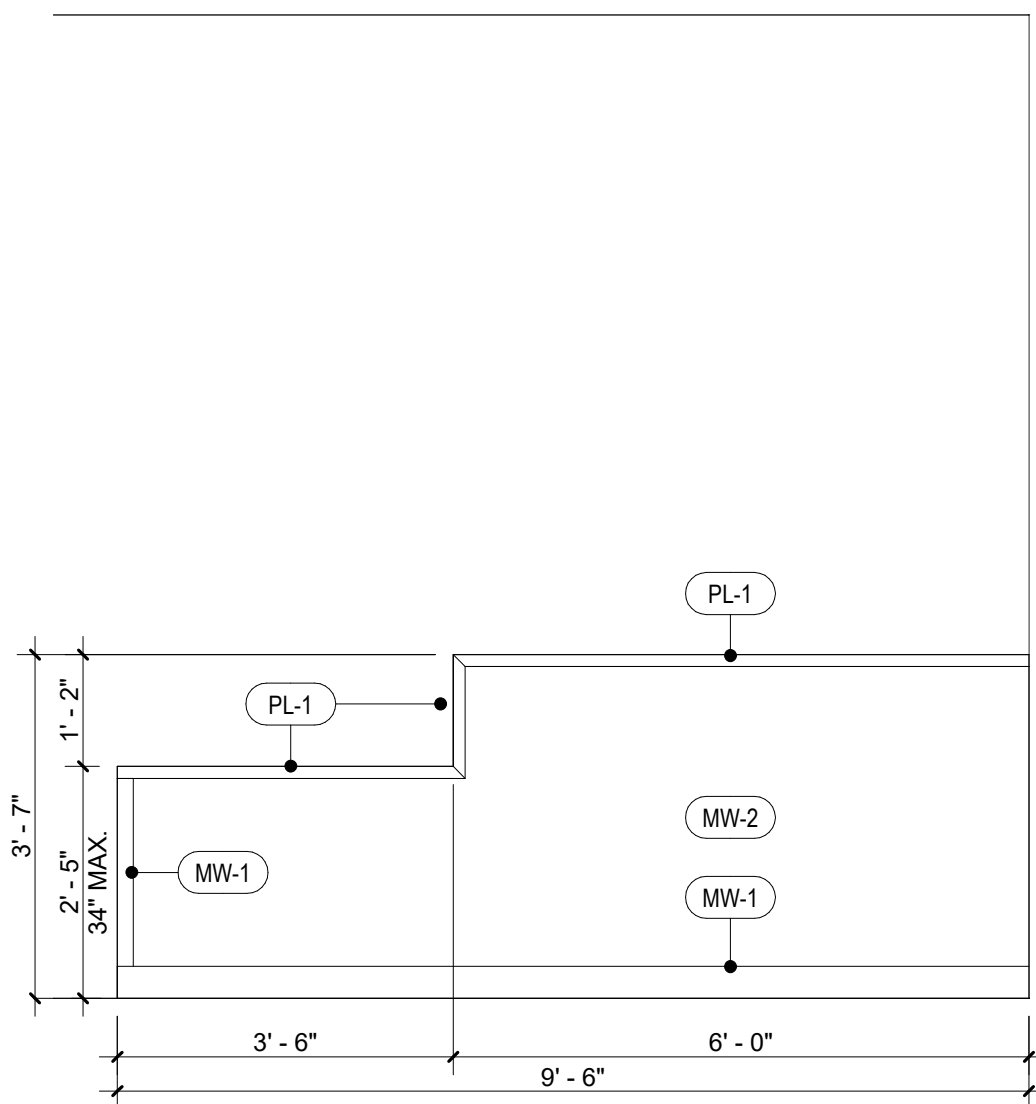
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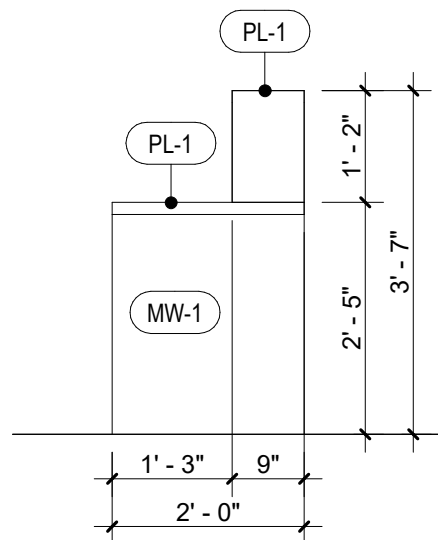
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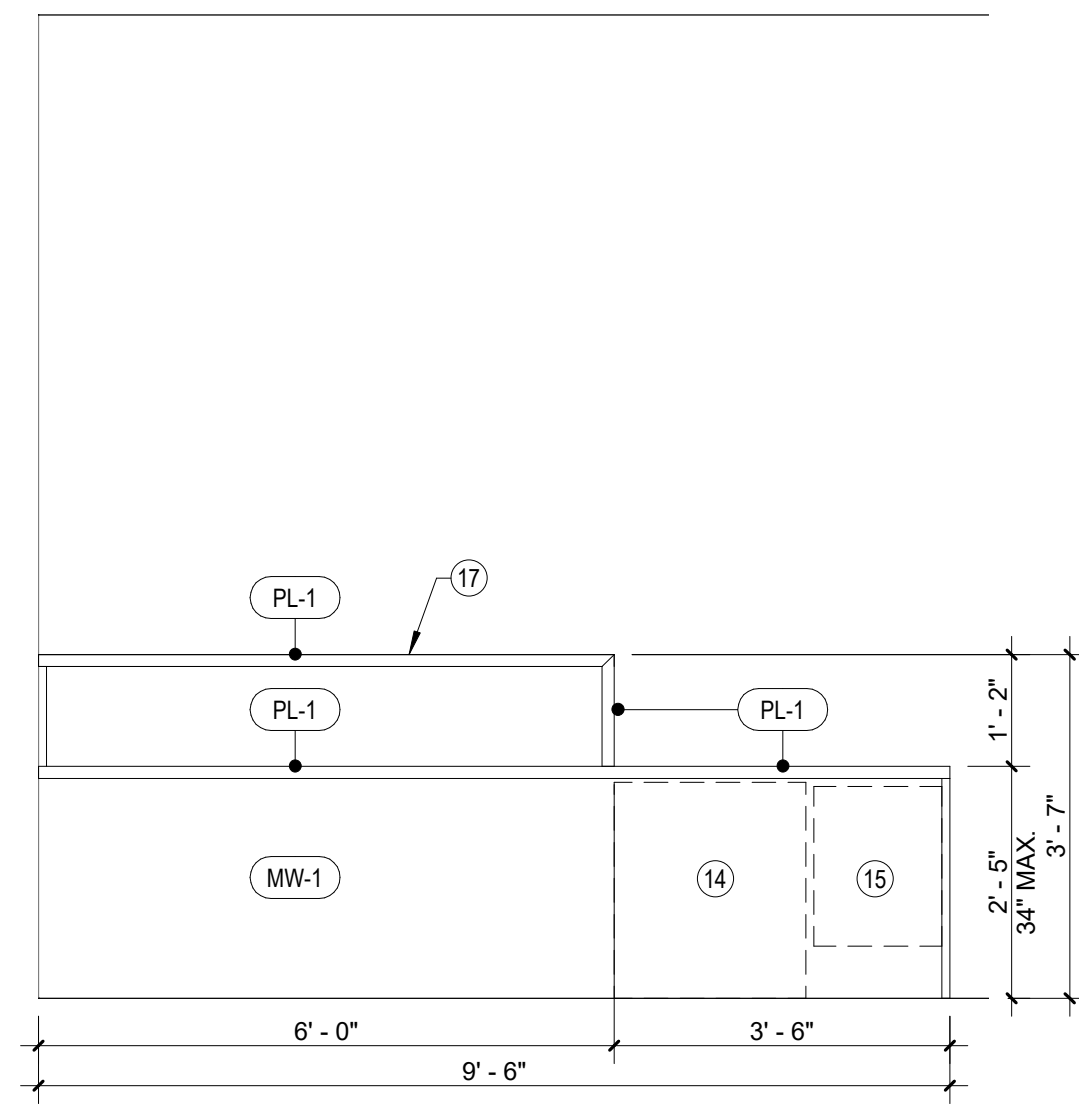
2 LOBBY NORTH
SCALE: 1/2" = 1'-0"



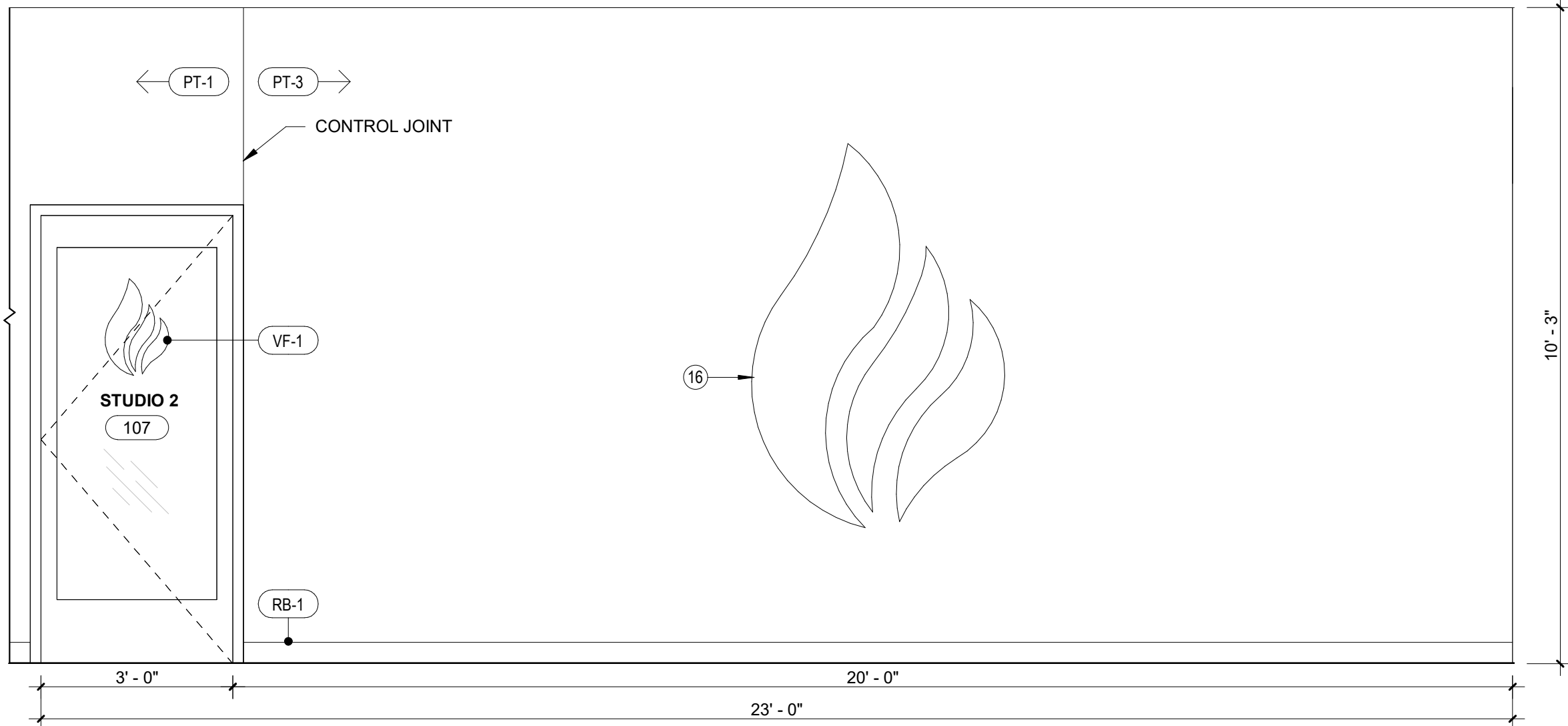
3 RECEPTION DESK FRONT
SCALE: 1/2" = 1'-0"



4 RECEPTION DESK SIDE
SCALE: 1/2" = 1'-0"



5 RECEPTION DESK BACK
SCALE: 1/2" = 1'-0"



1 POWER LIFE BRANDING
SCALE: 1/2" = 1'-0"

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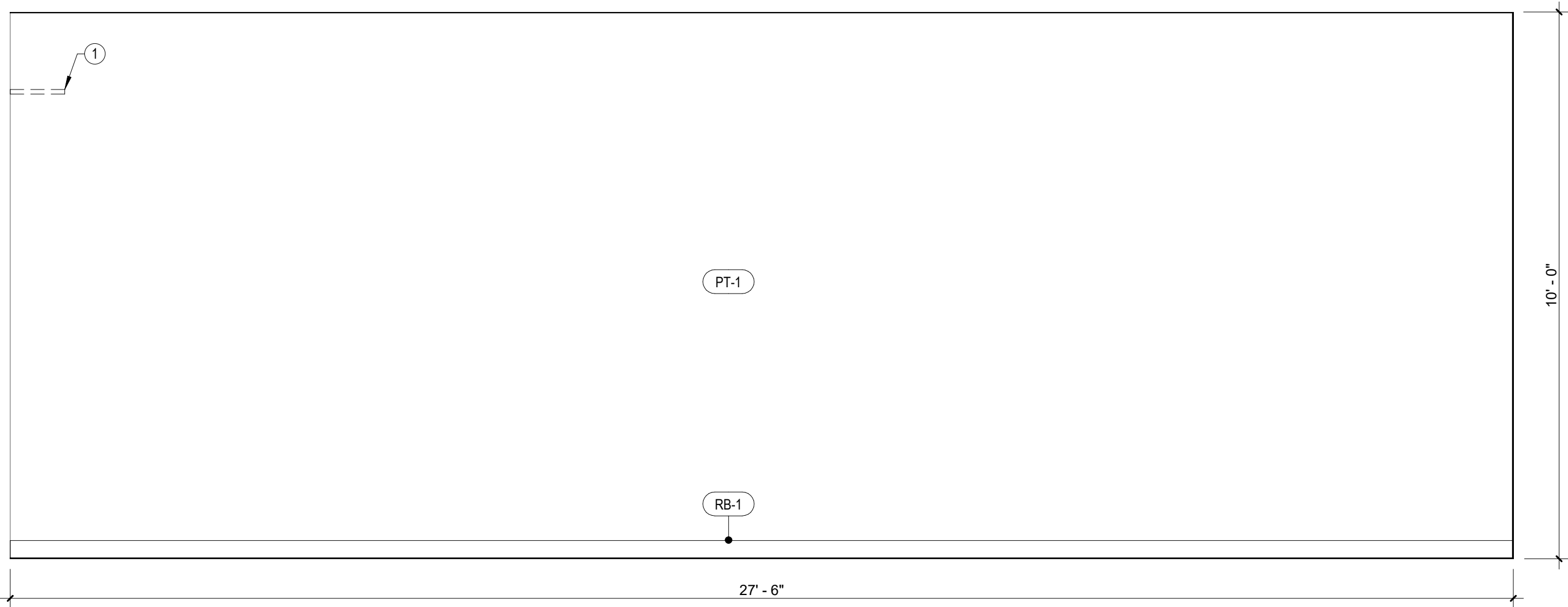
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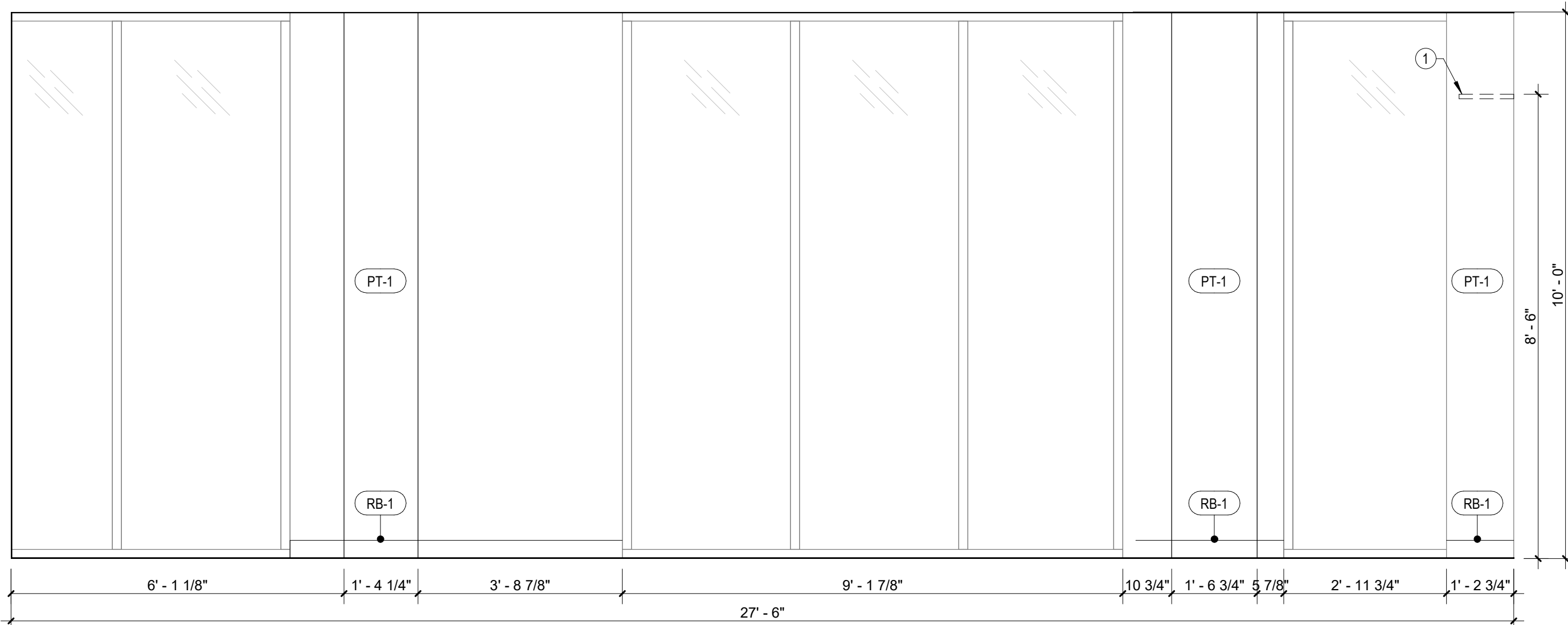
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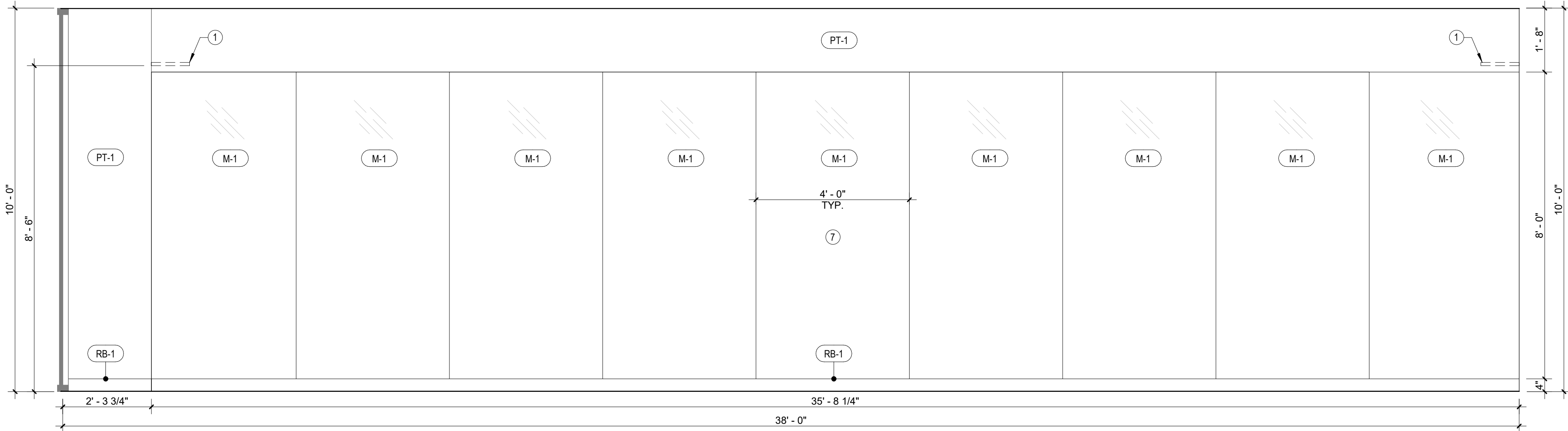
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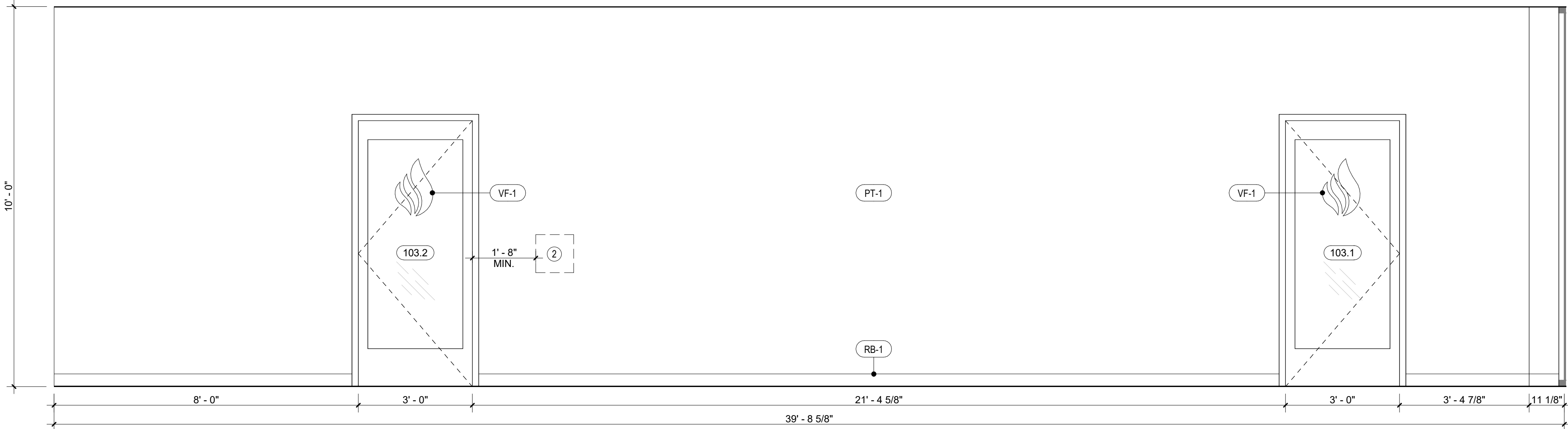
3 **STUDIO 1 - WEST**
SCALE: 1/2" = 1'-0"



4 **STUDIO 1 - EAST**
SCALE: 1/2" = 1'-0"



2 **STUDIO 1 - SOUTH**
SCALE: 1/2" = 1'-0"



1 **STUDIO 1 - NORTH**
SCALE: 1/2" = 1'-0"

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**INTERIOR
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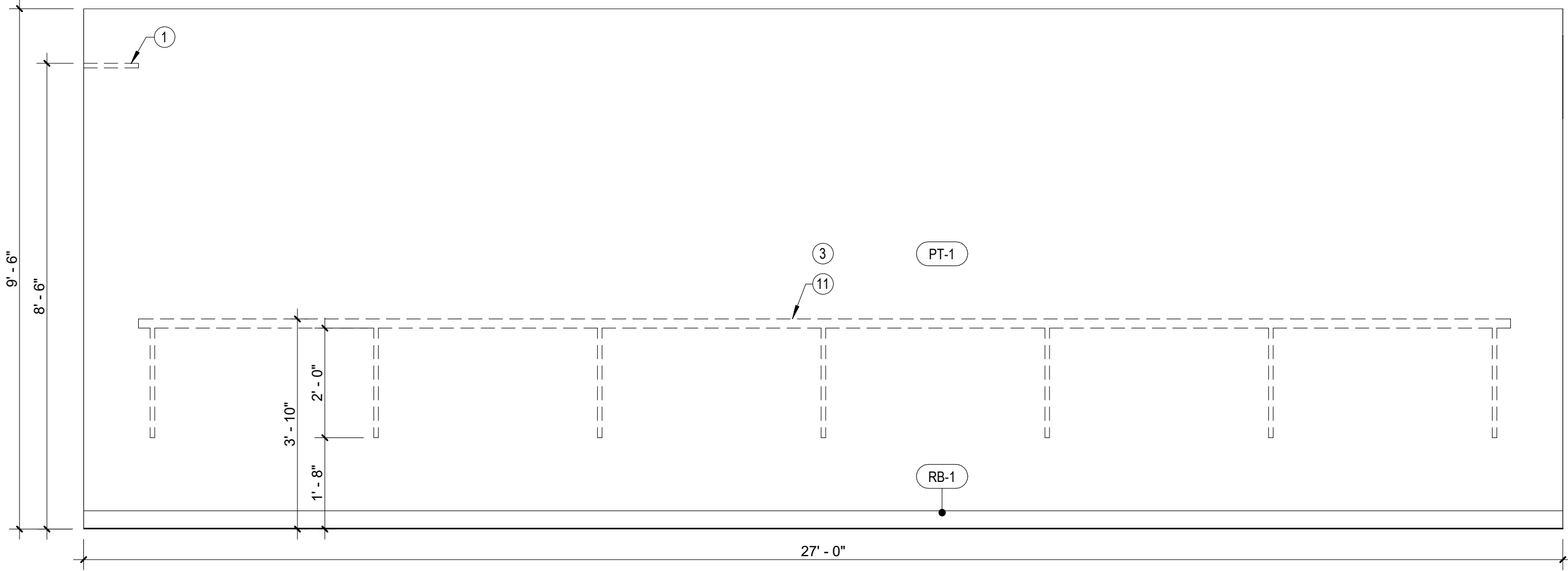
STATE OF MISSOURI
MICHAEL WAYNE SIMONSON
No. A008135
ARCHITECT

Michael Wayne Simonson
2021-04-29

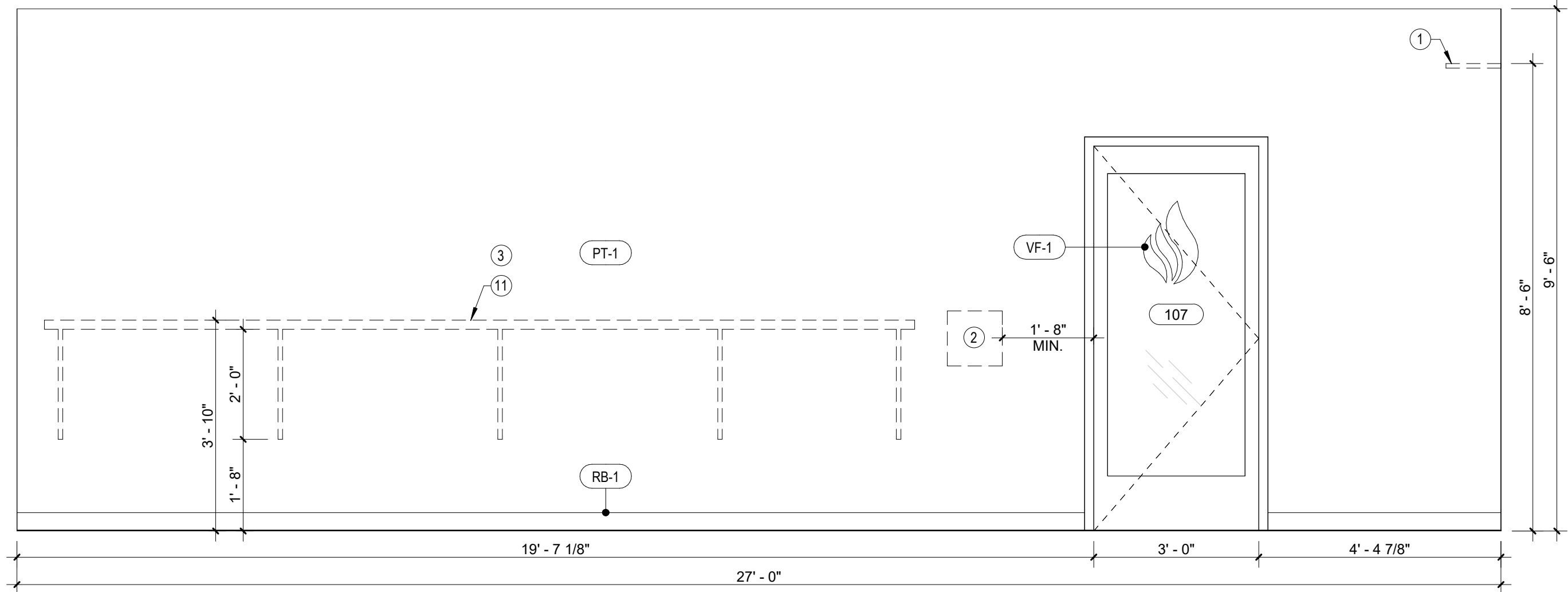
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POWER LIFE
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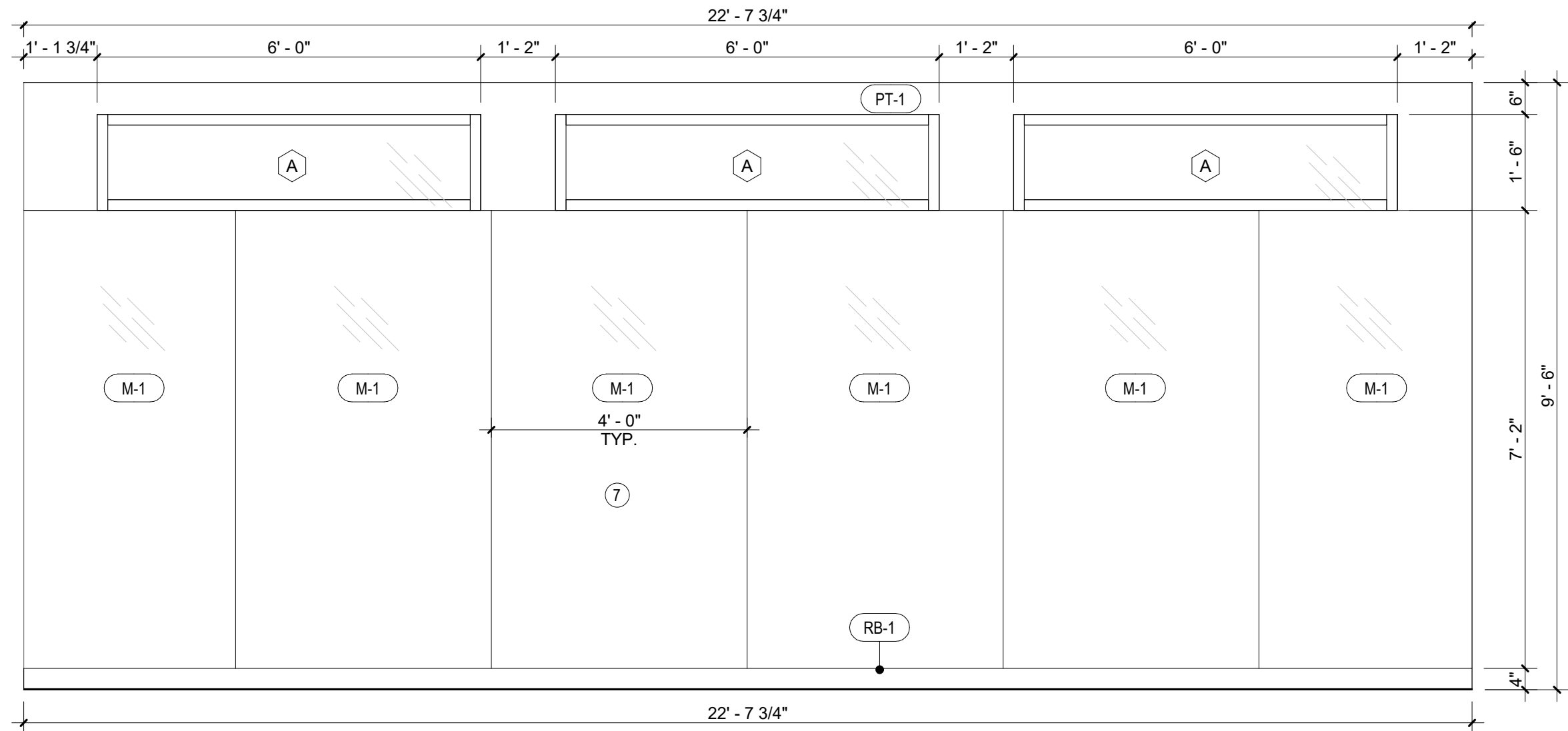
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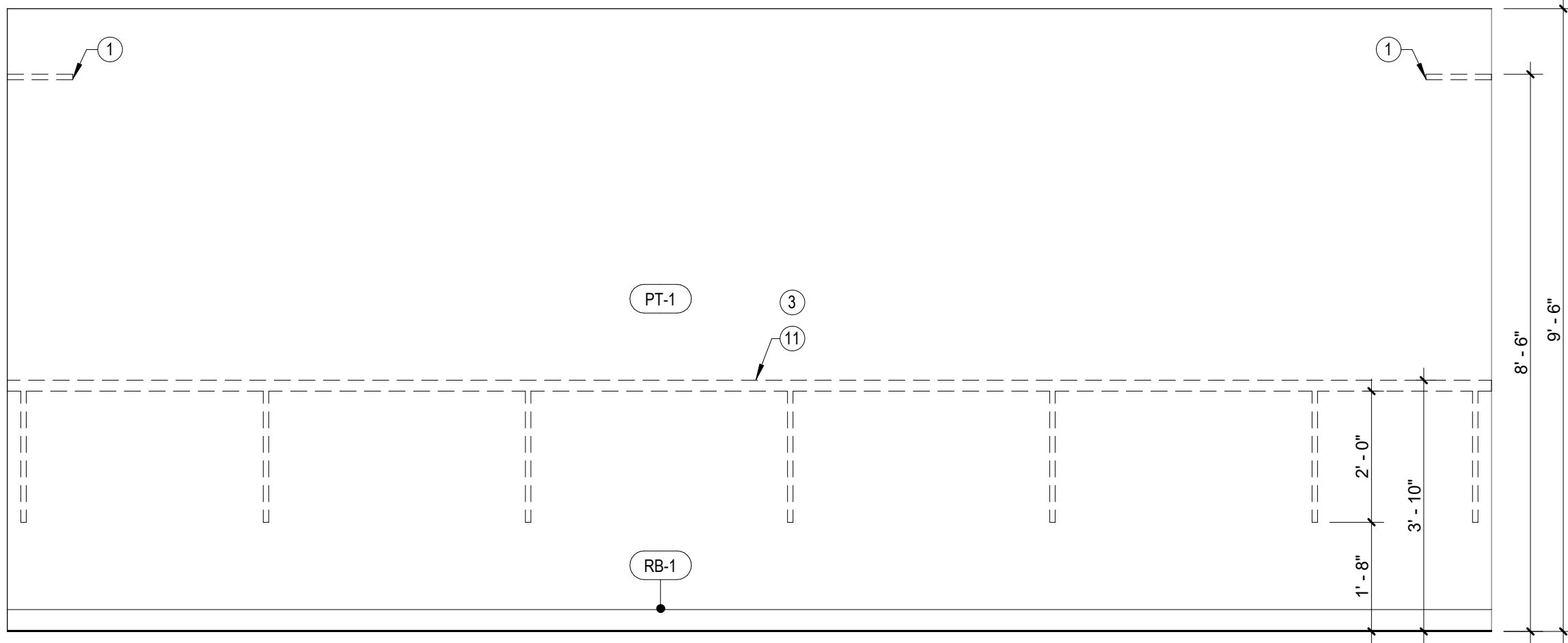
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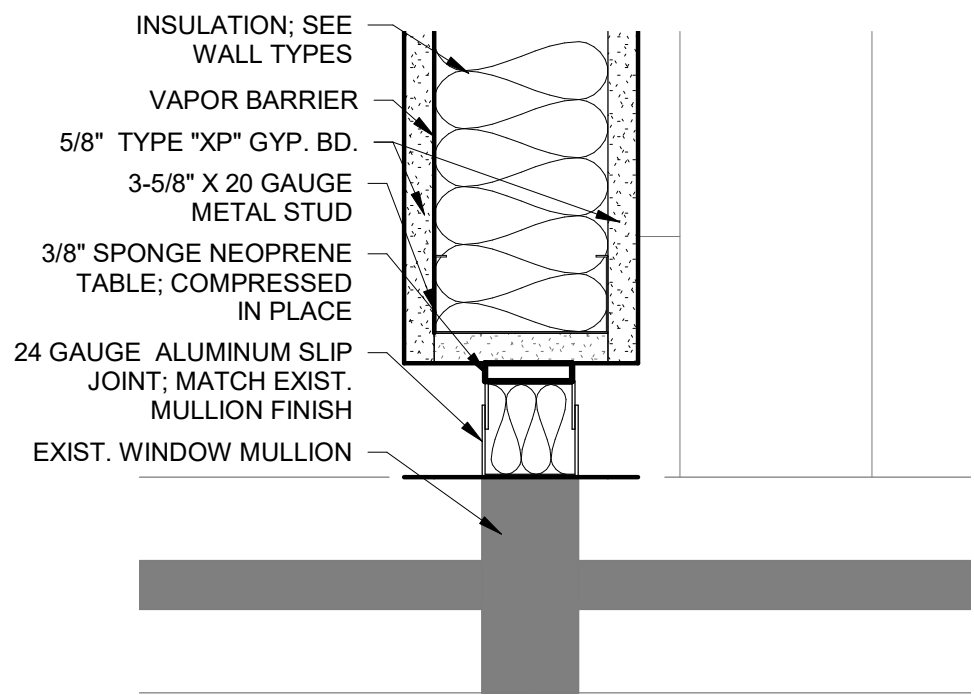
2 **STUDIO 2 - SOUTH**
SCALE: 1/2" = 1'-0"



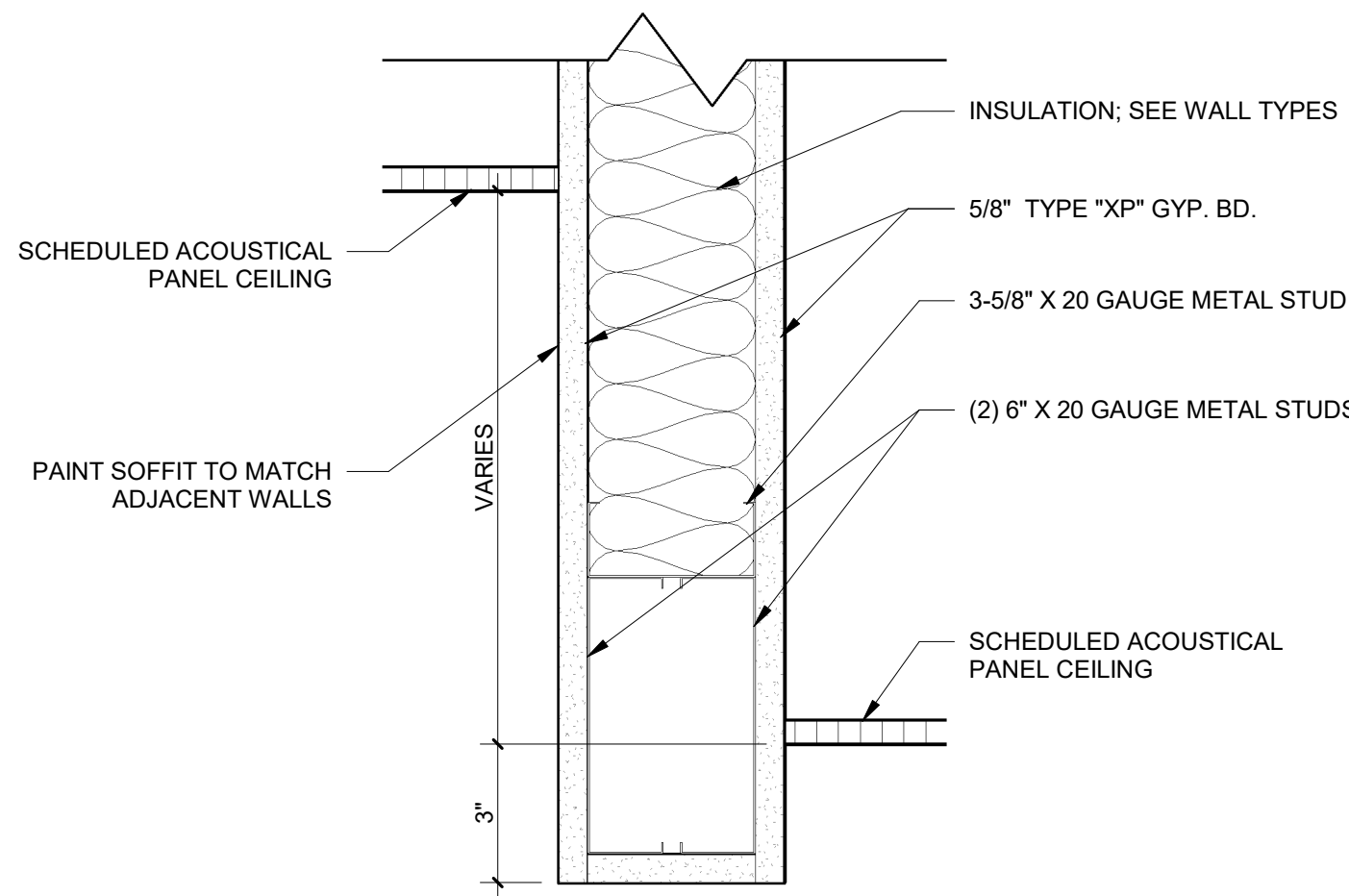
3 **STUDIO 2 - EAST**
SCALE: 1/2" = 1'-0"



4 **STUDIO 2 - WEST**
SCALE: 1/2" = 1'-0"



5 **STOREFRONT- GYP. WALL DETAIL**
SCALE: 3" = 1'-0"



6 **TYP. SOFFIT AT CEILING CHANGE**
SCALE: 3" = 1'-0"

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A-714

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STATE OF MISSOURI
MICHAEL WAYNE SIMONSON
No. A008135
ARCHITECT

Michael Wayne Simonson
2021-04-29

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POWER LIFE
940 NW PRYOR RD
LEE'S SUMMIT, MO 64081

POWER LIFE YOGA

940 NW PRYOR RD
LEE'S SUMMIT, MO 6408

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M001	MECHANICAL SCHEDULES & DETAILS
M101	HVAC PLAN - LEVEL 1
P100	UNDERGROUND PLUMBING PLAN - LEVEL 1
P101	PLUMBING PLAN - LEVEL 1

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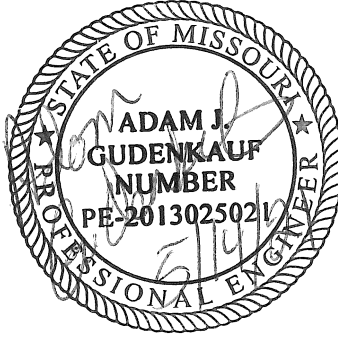
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Keyplan

Rev.	Date	Reason for Revision	By
1	05/14/2021	PERMIT SET	

Design Engineer	CDH	Detailer	-
Reviewed By	AJG	CAD Tech	-



Project	58613SDC
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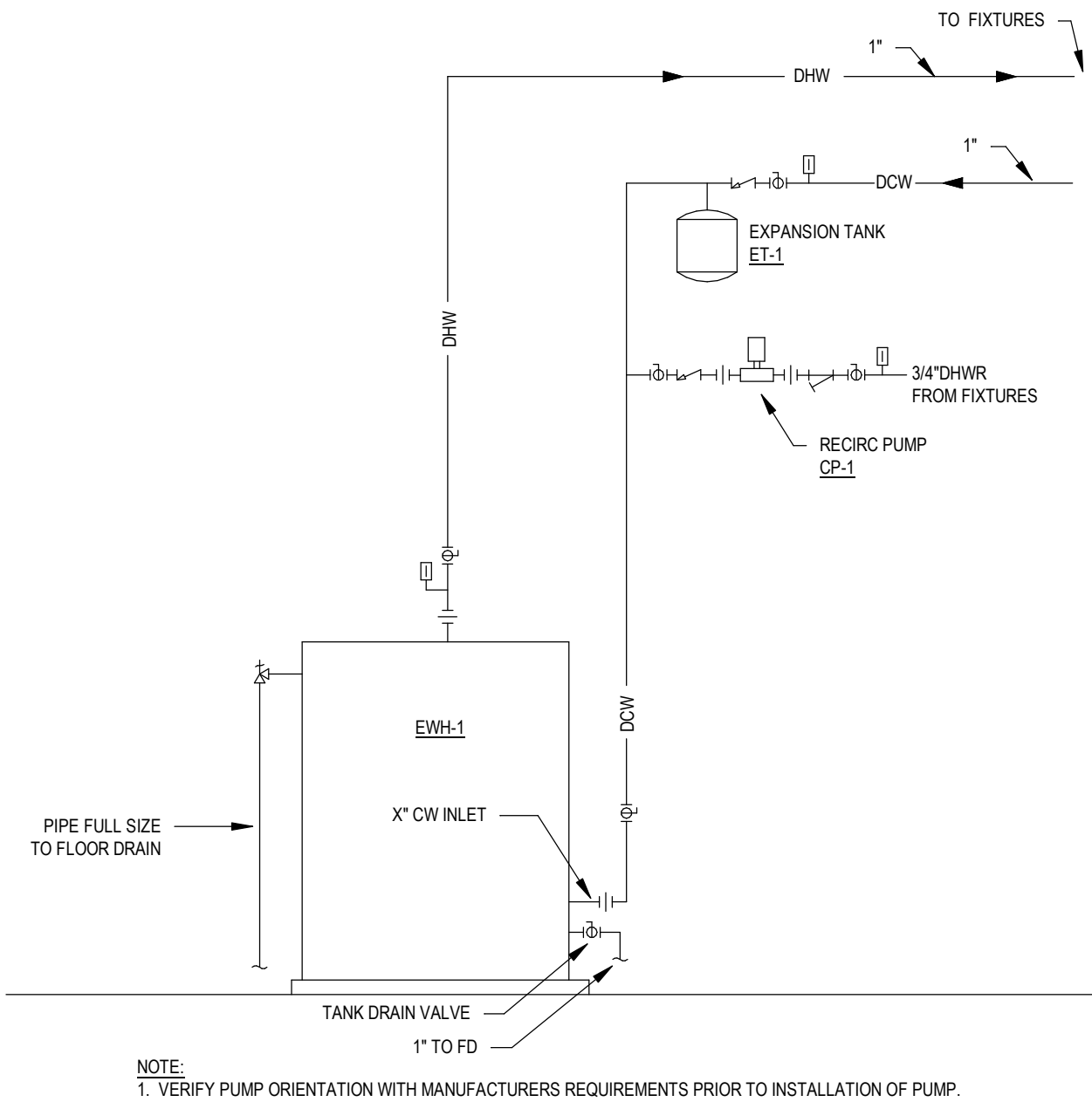
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COVERSHEET

_Sheet Title

M000



1 ELECTRIC WATER HEATER DETAIL

PLUMBING SYMBOLS

DCW	DOMESTIC COLD WATER	NG	NATURAL GAS
NPW	NON-POTABLE WATER	MPG	MEDIUM PRESSURE GAS
DHW	DOMESTIC HOT WATER	LP	LIQUID PROPANE GAS
140°F HW	140°F DOMESTIC HOT WATER	RO	REVERSE OSMOSIS
DHWR	DOMESTIC HOT WATER RECIRC	DI	DEIONIZED WATER
ST	STORM DRAIN	MV	MEDICAL VACUUM
OF	STORM OVERFLOW	N2	NITROGEN
SPD	SUMP PUMP DISCHARGE	CO2	CARBON DIOXIDE
SAN	SANITARY WASTE	N2O2	NITROUS OXIDE
V	SANITARY VENT	O2	OXYGEN
G.SAN	GREASE SANITARY WASTE	MA	MEDICAL AIR
GV	GREASE VENT	CA	COMPRESSED AIR
AW	ACID WASTE		
AV	ACID VENT		
CD	CONDENSATE DRAIN		

HVAC SYMBOLS

	DIFFUSER (SUPPLY)		TYPICAL RECTANGULAR DUCT - SIZE AS INDICATED (WIDTH / DEPTH) SIZE INDICATES SHEETMETAL SIZE
	GRILLE (RETURN)		TYPICAL ROUND DUCT - SIZE AS INDICATED (DIAMETER) SIZE INDICATES SHEETMETAL SIZE
	GRILLE (RETURN WITH NECK)	EA	EXHAUST
	GRILLE (EXHAUST)	ESS	EXHAUST AIR STAINLESS
	GRILLE (EXHAUST WITH NECK)	FA	FRESH AIR
	WALL REGISTER	KE	KITCHEN EXHAUST
	SLOT DIFFUSER	RA	RETURN AIR
	SUPPLY ARROW	SA	SUPPLY AIR - LOW /MEDIUM PRESSURE
	RETURN ARROW	PG	PAINT GRIP
	EXHAUST ARROW	A	ALUMINUM
	RECTANGULAR DIFFUSER INDICATION SHOWING CFM	RI	RELIEF AIR
	ROUND DIFFUSER INDICATION SHOWING CFM	T	TRANSFER DUCT
	RECTANGULAR GRILLE INDICATION SHOWING CFM	PVC	PVC COATED
	RECTANGULAR REGISTER INDICATION SHOWING CFM		TRANSFER DUCT
	FIRE DAMPER		SINGLE LINE FLEX DUCT
	SMOKE DAMPER	AFMS	AIRFLOW MEASUREMENT STATION
	FIRE/SMOKE DAMPER	DP	DIFFERENTIAL PRESSURE SENSOR (DUCT MOUNTED)
	BACKDRAFT DAMPER	SP	STATIC PRESSURE SENSOR (DUCT MOUNTED)
	PRESSURE REDUCING DAMPER		SECURITY BAR
	MOTORIZED DAMPER		NEW TO EXISTING CONNECTION POINT
	VOLUME DAMPER		
	THERMOSTAT - WALL/CEILING MOUNTED		
	CARBON MONOXIDE SENSOR - WALL/CEILING MOUNTED		
	NITROGEN DIOXIDE SENSOR - WALL/CEILING MOUNTED		
	HUMIDISTAT - WALL/CEILING MOUNTED		
	TEMPERATURE SENSOR - WALL/CEILING MOUNTED		
	NITROGEN DIOXIDE SENSOR - WALL/CEILING MOUNTED		
	PRESSURE SENSOR - WALL/CEILING MOUNTED		

VALVES AND FITTINGS

	DOWNSPOUT NOZZLE
	WALL HYDRANT
	HOSE BIB
	ALIGNMENT GUIDE
	PIPE ANCHOR
	EXPANSION JOINT
	VALVE (GENERIC)
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	GLOBE VALVE
	BALANCING VALVE
	CHECK VALVE
	PLUG VALVE
	SOLENOID VALVE
	AUTOMATIC CONTROL VALVE 2-WAY
	AUTOMATIC CONTROL VALVE 3-WAY
	ANGLE VALVE
	RELIEF VALVE
	PRESSURE REDUCING VALVE (WATER SYSTEMS)
	PRESSURE REDUCING VALVE (GAS SYSTEMS)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	STRAINER
	UNION
	PRESSURE GAUGE
	THERMOMETER
	PRESSURE AND TEMPERATURE TEST PORT
	AQUASTAT
	FLOW MEASURING DEVICE
	STEAM TRAP
	EXPANSION LOOP
	PUMP (GENERIC)
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	NEW TO EXISTING CONNECTION POINT

ELECTRIC WATER HEATER SCHEDULE						
TAG	BASIS OF DESIGN		VOL GAL	HEATING		ELEC. V/PH
	MANUFACTURER	MODEL		KW	GPH	
EW-H-1	STATE	SCSB5230IFEX3N	50	30		208/3
NOTES: A) CP-1: GRUNDFOS UP 15-18 B7 CIRC PUMP, 3GPM @ 12FT, 120/1 V/PH B) EXPANSION TANK (AMTROL AST5CDD) C) ASME RATED D) PROVIDE ON WALL MOUNT STAND E) PROVIDE WITH DRIP PAN. ROUTE DISCHARGE TO DRAIN						

DUCT CONSTRUCTION SCHEDULE					
SYSTEM DESCRIPTION	DUCT CONSTRUCTION		INSULATION		REMARKS
	PRESSURE CLASS	MATERIAL	LINER/WRAP	THICKNESS	
SUPPLY IN STUDIOS	2"	GALVANIZED	FRK WRAP	1"	A,B,C,D
SUPPLY ALL OTHER	2"	GALVANIZED	N/A	N/A	A,B,C,D
RETURN IN STUDIOS	2"	GALVANIZED	FRK WRAP	1"	A,B,C,D
RETURN ALL OTHER	2"	GALVANIZED	N/A	N/A	A,B,C,D
OUTDOOR AIR UPSTREAM OF ERV	2"	GALVANIZED	FRK WRAP	2"	A,B,C,D
OUTDOOR AIR DOWNSTREAM OF ERV	2"	GALVANIZED	FRK WRAP	1"	A,B,C,D
EXHAUST	2"	GALVANIZED	N/A	N/A	A,B,C,D
NOTES: A) INSTALL PER SMACNA STANDARDS B) EQUIVALENT SIZES OF ROUND, OVAL, OR RECTANGULAR DUCT MAY BE USED WHERE NOT EXPOSED C) ALL MITERED FITTINGS SHALL HAVE TURNING VANES, UNLESS LONG RADIUS FITTINGS ARE USED D) ALL DUCT SIZES ARE METAL AND INCLUDE 1" LINER IF APPLICABLE					

STEAM HUMIDIFIER SCHEDULE							
TAG	SERVES	BASIS OF DESIGN		CAPACITY LBS/HR	KW	ELEC MCAM/OP	V/PH
		MANUFACTURER	MODEL				
HU-1	STUDIO 1	CONDAIR	EL-030/208/3	30	7.5	20.8/25	208/3
HU-2	STUDIO 2	CONDAIR	EL-020/208/3	20	11.2	31.1/40	208/3
NOTES: A) STEAM DISTRIBUTER FOR 20x12 DUCT, 1600 CFM, EAT = 100°F & 30% RH B) STEAM DISTRIBUTER FOR 12x12 DUCT, 800 CFM, EAT = 100°F & 30% RH C) DRAIN TEMPERING KIT							

ELECTRIC DUCT HEATER SCHEDULE									
TAG	SERVES	BASIS OF DESIGN		DUCT SIZE	CFM	EAT	LAT	ELEC KW	V/PH
		MANUFACTURER	MODEL						
EDH-1	STUDIO 1	INDEECO	QUA	20x12	1600	65	94...	15	208/3
EDH-2	STUDIO 2	INDEECO	QUA	12x12	800	65	96...	8	208/3
NOTES: A) NON-FUSED DISCONNECT B) SCR CONTROL W/ 0-10 VDC INPUT SIGNAL C) FAN RELAY									

GRILLE/REGISTER/DIFFUSER SCHEDULE						
TAG	DESCRIPTION	BASIS OF DESIGN		NECK SIZE	MODULE SIZE	COLOR
		MANUFACTURER	MODEL			
SD-1	SLOT DIFFUSER	NAILOR	5715I	SEE PLANS	24"Lx2-SLOTx1.5"	BLACK
CD-1	CEILING DIFFUSER	NAILOR	6500	SEE PLANS	24"x24"	BLACK
RG-1	RETURN GRILLE	NAILOR	4360	-	24"x24"	BLACK
RG-2	RETURN GRILLE	NAILOR	6145H	SEE PLANS	SEE PLANS	BLACK
EG-1	EXHAUST GRILLE	NAILOR	4360	SEE PLANS	24X24	BLACK
NOTES: A) REFER TO ARCHITECTURAL DRAWINGS FOR BORDER TYPES. B) REFER TO MECH DRAWINGS FOR LOCATION, AIR QUANTITIES, AND NECK SIZES						

AIR TO AIR HEAT RECOVERY SCHEDULE											
TAG	SERVES	BASIS OF DESIGN		CFM	OUTSIDE AIR	EXH AIR	EAT	EFF %	ELEC V/PH	REMARKS	
		MANUFACTURER	MODEL								
ERV-1	STUDIO 1	RENEWAIR	HE-1XJINH	950	2/0.7 95.8/76.8	66.9/57.6 98.6/78.9	950	100/78.8 100/83.1	57.6 31.6	120/1	A,B
ERV-2	STUDIO 2	RENEWAIR	HE-1XJINH	550	2/0.7 95.8/76.8	74.9/63.6 98.9/79.8	550	100/78.8 100/83.1	67.7 46.6	120/1	A,B
ERV-3	LOBBY	RENEWAIR	HE-1XJINH	500	2/0.7 95.8/76.8	53.4/43.8 80.1/69	500	75/62.4 70/54.1	73.9 58.0	120/1	A,B
NOTES: A) ECM MOTORS B) MOTORIZED OA DAMPERS											

PIPING APPLICATION SCHEDULE						
SYSTEM DESCRIPTION	SIZE	MATERIAL	JOINTS	INSULATION		REMARKS
				TYPE	THICKNESS	
DOMESTIC COLD WATER - BELOW GROUND	ALL	COPPER (TYPE K) PVC (AWWA C900) DUCTILE IRON (AWWA C151)	SOLDER SOLVENT?? MECHANICAL JOINT	NONE	-	-
DOMESTIC COLD WATER - ABOVE GROUND	ALL	COPPER (TYPE L) PEX-A	SOLDER MECHANICAL PRESS EXPANSION	FIBERGLASS	1/2"	D
DOMESTIC HOT WATER - ABOVE GROUND	1/2" - 1-1/4"	COPPER (TYPE L) PEX-A	SOLDER MECHANICAL PRESS EXPANSION	FIBERGLASS	1"	D
DOMESTIC HOT WATER - ABOVE GROUND	1-1/2" - 3"	COPPER (TYPE L) PEX-A	SOLDER MECHANICAL PRESS EXPANSION	FIBERGLASS	1-1/2"	D
WASTE / VENT - BELOW GROUND	ALL	PVC (DWV) CAST IRON COPPER (DWV)	SOLVENT NO HUB PUSH ON SOLDER	NONE	-	-
WASTE / VENT - ABOVE GROUND (PIPING IN RA PLENUM)	ALL	PVC (DWV) CAST IRON COPPER (DWV)	SOLVENT NO HUB SOLDER	CAST - NONE PVC - FYPEWRAP	1/2"	B
WASTE / VENT - ABOVE GROUND (PIPING NOT IN PLENUM)	ALL	PVC (DWV) CAST IRON COPPER (DWV)	SOLVENT NO HUB SOLDER	FIBERGLASS (SEE REMARKS)	1"	B
STORM - BELOW GROUND	ALL	PVC (DWV) CAST IRON	SOLVENT NO HUB PUSH ON	NONE	-	-
STORM - ABOVE GROUND (PIPING IN RA PLENUM)	ALL	PVC (DWV) CAST IRON COPPER (DWV)	SOLVENT NO HUB SOLDER	CAST - NONE PVC - FYPEWRAP	1/2"	B
STORM - ABOVE GROUND (PIPING NOT IN PLENUM)	ALL	PVC (DWV) CAST IRON COPPER (DWV)	SOLVENT NO HUB SOLDER	FIBERGLASS (SEE REMARKS)	1"	A
NATURAL GAS	ALL	BLACK STEEL (SCH. 40)	THREADED WELDED	-	-	C
A/C CONDENSATE	ALL	PVC (DWV) COPPER (DWV)	SOLVENT SOLDER	COPPER - ARMAFLEX FOAM	1/2"	-
REFRIGERATION	ALL	ACR COPPER	SILFOS JOINTS	ARMAFLEX FOAM	1/2"	-
NOTES: A) INSULATE STORM DRAIN BODIES AND ALL INTERIOR HORIZONTAL PIPING. B) INSULATE WITHIN 10'-0" OF ROOF PENETRATION C) GAS PIPING THAT IS LOCATED IN A RETURN AIR PLENUM OR CONCEALED SPACE MUST BE WELDED. D) INSTALL AND SUPPORT PEX PIPING PER MANUFACTURER'S RECOMMENDATIONS FOR PLENUM-RATED APPLICATIONS.						

PLUMBING FIXTURE SCHEDULE											
TAG	MANUFACTURER	MODEL	DESCRIPTION	PLUMBING ROUGH-IN				ELECTRIC CONNECTION			REMARKS
				DRAIN	VENT	DCW	DHW	VOLTS	PHASE	AMPS	
EW-C-1	ELKAY	EEZWSEDPFP217K	ELECTRIC WATER COOLER (BI-LEVEL W/ BOTTLE FILLER) - WALL MOUNT, STAINLESS STEEL BOWL AND LOWER APRON, DUAL HEIGHT, ADA COMPLIANT, BOTTLE FILLER, 8GPH.	1-1/2"	2"	1/2"	-	120	1	1	PROVIDE WITH EDPF217WS FOUNTAIN, MFWS200 MOUNTING FRAME, EACCESS12X385 LOWER ACCESS PANEL KIT, E97Z58C CANE APRON, P-TRAP, STOPS AND SUPPLIES
FCO	MIFAB	MC1104R1	FLOOR CLEANOUT - ADJ ROUND NB TOP - 3" NO HUB	4"	-	-	-	-	-	-	-
WCO	MIFAB	MC1452RD6	LINE CLEANOUT W/ ROUND SS ACCESS COVER - 2" NO HUB	2"	-	-	-	-	-	-	-
FD-1	MIFAB	MF1322CY14457	FLOOR DRAIN - 9" DUCTILE IRON TOP, CAST IRON BODY, SEDIMENT BUCKET, NON-TILT GRATE.	2"	2"	-	-	-	-	-	1/2" TRAP SEAL PRIMER CONNECTION
L-1	AMERICAN STANDARD	A0495221020	0495.221 WHITE UNDERMOUNT SINK	2"	1-1/2"	1/2"	1/2"	-	-	-	PROFLO PF6D100 GRID DRAIN PROFLO PFPTB100 P-TRAP...
	DELTA	501LF	FAUCET - SINGLE HANDLE LEVER, 4" HOLE SPACING, CHROME FINISH, AERATOR, 0.5 GPM.								PROVIDE WITH ASSE 1070 CERTIFIED MIXING VALVE.
MS-1	FIAT	MSBID2424	MOP SINK - 24" x 24" BASIN, 10" DEPTH, MOLDED STONE, STAINLESS STEEL DRAIN WITH DOME STRAINER AND LINT BASKET.	3"	2"	3/4"	3/4"	-	-	-	PROVIDE WITH MOP HANGER, HOSE & BRACKET, SS WALL GUARD, SS CORNER GUARD.
WC-1	AMERICAN STANDARD	A2467016020	WATER CLOSET (WALL HUNG) - WHITE, VITREOUS CHINA, ELONGATED BOWL, 1.6 GPF, 1-1/2" TOP SPUD	4.00	2.00	1.00	-	-	-	-	PROVIDE WITH PROFLO PFTSCOF2000WH WHITE SEAT, CLOSET BOLTS AND BOWL WAX.
WC-2	AMERICAN STANDARD	A2467016020	WATER CLOSET (WALL HUNG, ADA HEIGHT) - WHITE, VITREOUS CHINA, ELONGATED BOWL, 1.6 GPF, 1-1/2" TOP SPUD	4.00	2.00	1.00	-	-	-	-	PROVIDE WITH PROFLO PFTSCOF2000WH WHITE SEAT, CLOSET BOLTS AND BOWL WAX.
SH-1	AQUATIC	A1363BFSCLWH	SHOWER - 38" x 38" x 77", WHITE, SMOOTH WALL FINISH, 1/2" THRESHOLD, CENTER DRAIN.	2"	2"	1/2"	1/2"	-	-	-	PROVIDE WITH PROFLO PF140NC SHOWER DRAIN. PROVIDE WITH AMERICAN STANDARD ARU101SS SHOWER VALVE.
	AMERICAN STANDARD	ATU662221002	TRIM - SHOWER HANDLE ONLY TRIM - HAND SHOWER WITH GRAB BAR.								
SH-2	AQUATIC	A1363BFSCLWH	ADA SHOWER - 38" x 38" x 77", WHITE, SMOOTH WALL FINISH, 1/2" THRESHOLD, GRAB BARS, FOLD-UP SEAT, CENTER DRAIN.	2"	2"	1/2"	1/2"	-	-	-	PROVIDE WITH PROFLO PF140NC SHOWER DRAIN. PROVIDE WITH AMERICAN STANDARD ARU101SS SHOWER VALVE.
	AMERICAN STANDARD	ATU662221002	TRIM - SHOWER HANDLE ONLY TRIM - HAND SHOWER WITH GRAB BAR.								
UR-1	AMERICAN STANDARD	A6561017020	URINAL - WHITE, WASH/DOWN FLUSH, SPLASH PROTECTION, 1.0 GPF, 3/4" SPUD, 2" OUTLET.	2"	2"	3/4"	-	-	-	-	
	AMERICAN STANDARD	A6045101002	[FLUSH VALVE - MANUAL, 3/4", 1.0 GPF.]								
WB-1	OATEY	O38101	WASHING MACHINE OUTLET BOX - PVC, RECESSED, 2" CENTER DRAIN, 1/2" MIP WATER CONNECTIONS WITH 1/4 TURN VALVES.	2"	2"	1/2"	1/2"	-	-	-	-

Owner

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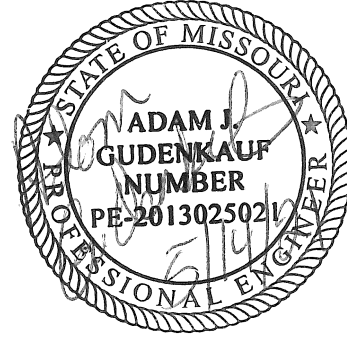
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Keyplan

Rev.	Date	Reason for Revision	By
1	05/14/2021	PERMIT SET	

Design Engineer	CDH	Detailer	-
Reviewed By	AJG	CAD Tech	-



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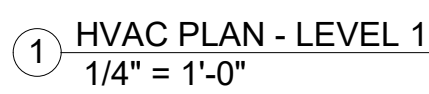
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MECHANICAL SCHEDULES & DETAILS

Sheet Title

M001

IF THIS SHEET MEASURES LESS THAN 24"x36", IT IS
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IF THIS SHEET MEASURES LESS THAN 24"x36", IT IS
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1. CONNECT TO EXISTING 28"x10"FA DUCT.
2. CONNECT TO EXISTING 28"x10"EA DUCT.
3. HUMIDIFIER TO BE LOCATED ABOVE CEILING. MOUNT AS HIGH AS POSSIBLE.
4. AIR HANDLING UNITS ARE PROVIDED AND INSTALLED BY OTHERS.
5. LOCATE RETURN GRILLES AS CLOSE TO FLOOR AS POSSIBLE, MAX OF 1'-0" AFF.

1. FABRICATE AND INSTALL ALL DUCT ACCORDING TO THE CURRENT SMACNA STANDARDS FOR THE APPROPRIATE PRESSURE CLASS.
2. USE RADIUS ELBOWS WHERE SPACE ALLOWS. OTHERWISE USE 90° INTERIOR ELBOWS WITH TURNING VANES FOR LOW PRESSURE DUCT.
3. INSTALL MANUAL VOLUME DAMPERS AT ALL BRANCH TAKEOFFS TO DIFFUSERS/GRILLES.
4. MEDIUM VELOCITY BRANCH TAPS TO TERMINAL UNITS SHALL BE CONICAL OR EQUAL.
5. LIMIT FLEXIBLE DUCT EQUIVALENTS TO DIFFUSERS TO 5 FEET IN LENGTH.
6. LIMIT FLEXIBLE DUCT CONNECTIONS TO TERMINAL UNITS TO 3 FEET IN LENGTH.
7. IF CEILINGS ARE INACCESSIBLE, LOCATE BALANCING DAMPERS AT THE GRILLE REGISTER.
8. INSTALL ALL FIRE, SMOKE & COMBINATION FIRE/SMOKE DAMPERS PER U.L. APPROVED MANUFACTURERS INSTALLATION INSTRUCTIONS.
9. PROVIDE FLEXIBLE/CANVAS CONNECTORS AT ALL AIR MOVING EQUIPMENT CONNECTIONS, UNLESS EQUIPMENT IS INTERIALLY ISOLATED.
10. ALL DUCT SIZES ARE METRIC DIMENSIONS.
11. USE 45 DEGREE ENTRY FITTINGS FOR ALL BRANCH DUCT TAKEOFFS.
12. INSTALL ALL EQUIPMENT PER MANUFACTURER RECOMMENDATIONS. MAINTAIN SERVICE AND ACCESS TO ALL FIRE/SMOKE AIR FLOW DEVICES AS SHOWN ON THE MANUFACTURERS INSTALLATION DRAWINGS.
13. ALL NEW RECTANGULAR SUPPLY AIR DUCTWORK IS SHOWN AT METAL SIZE PROVIDE WITH 1" LINER.

Keyplan

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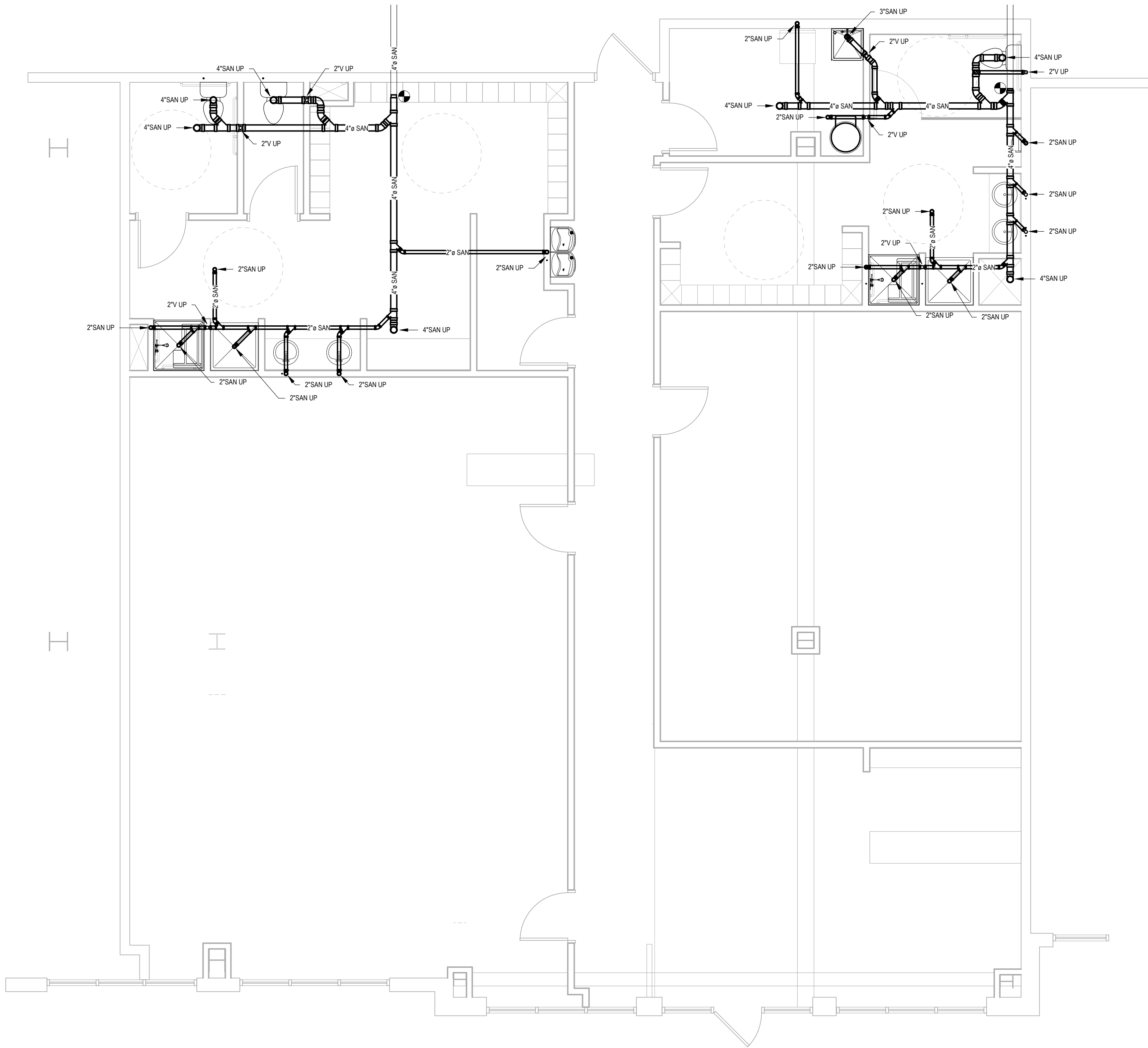
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Reviewed By	AJG	CAD Tech	-



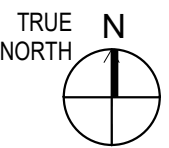
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M101



1 UNDERGROUND PLUMBING PLAN - LEVEL 1
1/4" = 1'-0"



IF THIS SHEET MEASURES LESS THAN 24"x36", IT IS
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PLUMBING KEYED NOTES:

- 1/2"DCW, 1/2"DHW, 2"SAN & 2"V TO FIXTURE.
- 3/4"DCW, 3/4"DWH, 2"SAN & 2"V TO FIXTURE.
- 3/4"DCW, 4"SAN & 2"V TO FIXTURE.
- 1/2"DCW, 2"SAN & 2"V TO FIXTURE.
- CONNECT TO EXISTING VENT PIPING IN THIS AREA.

PLUMBING GENERAL NOTES:

- INSTALL CLEANOUTS IN UNDERGROUND SANITARY AND STORM PIPING AT APPROPRIATE INTERVALS FOR EASE OF MAINTENANCE.
- VERIFY LOCATION OF EXISTING UNDERGROUND SERVICES BEFORE PROCEEDING.
- INSULATE ALL OVERHEAD DOMESTIC WATER PIPING & VERTICAL EXPOSED PIPING. SEE INSULATION SCHEDULE.
- LIMIT OUTLET TEMPERATURE ON LAVATORIES & SHOWERS TO 110 DEGREES F.
- SEE PLUMBING FIXTURE AND ROUGH IN SCHEDULE FOR CONNECTION SIZE.

Owner



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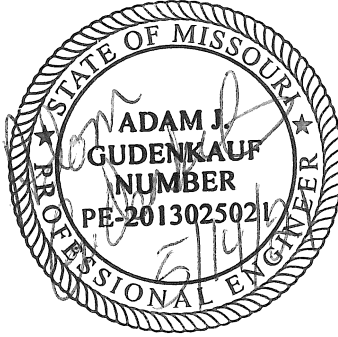
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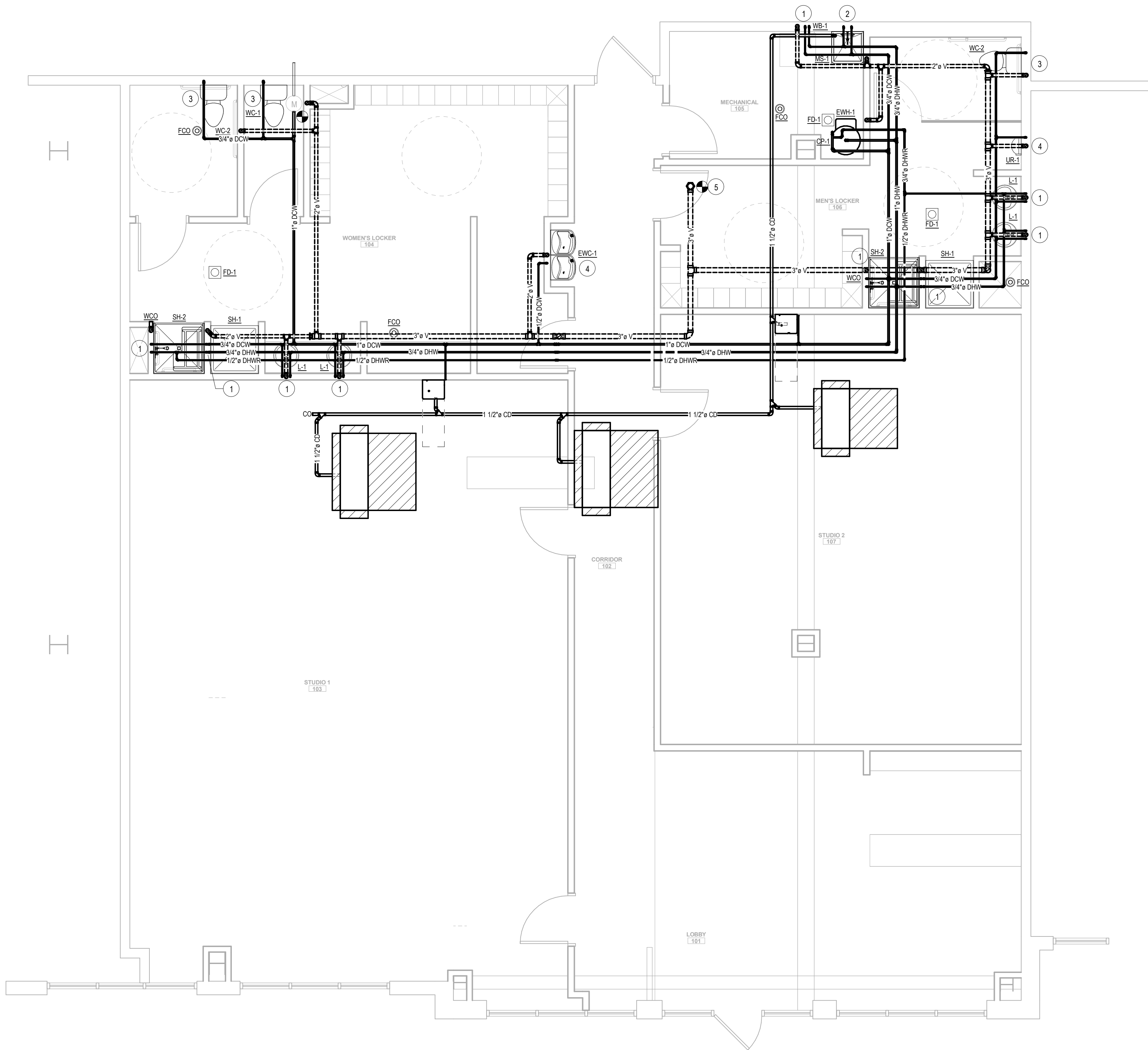
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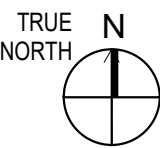
UNDERGROUND PLUMBING
PLAN - LEVEL 1

Sheet Title

P100



1 PLUMBING PLAN - LEVEL 1
1/4" = 1'-0"



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- 3/4"DCW, 4"SAN & 2"V TO FIXTURE.
- 1/2"DCW, 2"SAN & 2"V TO FIXTURE.
- CONNECT TO EXISTING VENT PIPING IN THIS AREA.

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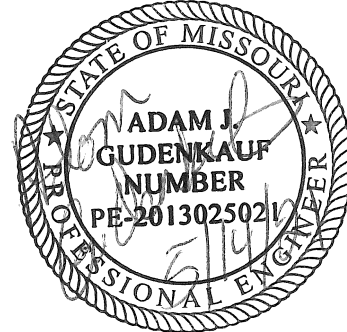
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PLUMBING PLAN - LEVEL 1

Sheet Title

P101

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED.

STANDARD MOUNTING HEIGHTS

CONTROLS	48"
EXIT SIGNS (WALL MOUNTED)	80"
RECEPTACLES	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (ABOVE COUNTER) +6" ABOVE BACKSPLASH/COUNTER, 40" MAX	
SAFETY SWITCHES	48"
STARTERS	48"
SWITCHES	48"
TELEPHONE, DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO

USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ARE ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE TO TOP OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

AF	AMPERE FRAME SIZE	MIN	MINIMUM
AFC	ABOVE FINISHED CEILING	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MOCP	MAXIMUM OVERCURRENT
AFG	ABOVE FINISHED GRADE		PROTECTION
AHJ	AUTHORITY HAVING JURISDICTION	MTD	MOUNTED
AHU	AIR HANDLING UNIT	N/A	NOT APPLICABLE
AIC	AMPERE INTERRUPTING CAPACITY	NF	NON-FUSED
AS	AMPERE SWITCH	NL	NIGHT LIGHT (24HR ON)
AT	AMPERE TRIP SETTING	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
ATS	AUTOMATIC TRANSFER SWITCH	OS	OCCUPANCY SENSOR
C	CONDUIT	PART	PARTIAL CIRCUIT
CKT	CIRCUIT	PHID	PHASE
CODE	APPLICABLE CODE	PNL	PANEL
CT	ADOPTED BY JURISDICTION	PROVIDE	FURNISH AND INSTALL
CTR	CURRENT TRANSFORMER CENTER	PT	POTENTIAL TRANSFORMER
CVD	CUMULATIVE VOLTAGE DROP	QTY	QUANTITY
DEMO	DEMOLITION	RCPT	RECEPTACLE
DDPT	DOUBLE-POLE, DOUBLE-THROW	RELO	RELOCATED
DPST	DOUBLE-POLE, SINGLE-THROW	RLA	RUNNING LOAD AMPS
EC	ELECTRICAL CONTRACTOR	SCCR	SHORT-CIRCUIT CURRENT RATING
EH	EMERGENCY EXISTING TO REMAIN	SPDT	SINGLE-POLE, DOUBLE-THROW
ETR	EXISTING TO REMAIN	SPST	SINGLE-POLE, SINGLE-THROW
FAAP	FIRE ALARM ANNUNCIATOR PANEL	ST	SHUNT TRIP
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
FCA	FAULT CURRENT AMPS AVAILABLE	TBB	TELECOMMUNICATIONS
FF	FINISHED FLOOR	TBD	TO BE DETERMINED
FLA	FULL LOAD AMPS	TGB	TELECOMMUNICATIONS
FLR	FLOOR	TGB	TELECOMMUNICATIONS
GC	GENERAL CONTRACTOR	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
GEC	GROUNDING ELECTRICAL CONDUCTOR	TX	TRANSFORMER
GES	GROUNDING ELECTRODE SYSTEM	TYT	TYPICAL
GFR	GROUND FAULT RELAY	UNO	UNLESS OTHERWISE NOTED
G	GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	VD	VOLTAGE DROP
ISC	SHORT CIRCUIT CURRENT	VFD	VARIABLE FREQUENCY DRIVE
J-BOX	JUNCTION BOX	W	WIRE
LRA	LOCKED ROTOR AMPS	W/	WITH
LTG	LIGHTING LIGHTS	WP	WEATHER PROOF
MAX	MAXIMUM	WR	WEATHER RESISTANT
MCA	MINIMUM CIRCUIT AMPACITY	WT	WATERTIGHT
MCB	MAIN CIRCUIT BREAKER	XP	EXPLOSION PROOF
MCC	MOTOR CONTROL CENTER		
MFR	MANUFACTURER		

LINE TYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINE TYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, DEMOLISHED, NEW, AND/OR ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINE TYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASING DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINE TYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	TEMPORARY

ANNOTATION

1	ELECTRICAL PLAN NOTE CALLOUT
1	PLUMBING EQUIPMENT DESIGNATION, (CONTRACTOR FURNISHED AND INSTALLED); REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
CU 1	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
1 E1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 E1	SECTION CUT DESIGNATION

CIRCUITING & WIRING

P1-3,5,7	HOMERUN TO PANELBOARD. INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.
	CIRCUIT CONTINUATION OR PARTIAL CIRCUIT
	CONCEALED CONDUIT
	UNDER FLOOR/IN GROUND CONDUIT
	EXPOSED CONDUIT
	FLEXIBLE CONDUIT
	LOW VOLTAGE CABLE
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP

BRANCH CIRCUIT CONDUCTOR TABLE

PROVIDE AT A MINIMUM THE FOLLOWING CONDUCTORS FOR ALL BRANCH CIRCUITS:			
# OF POLES	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUND (GROUNDING)***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS (SWITCHED, UNSWITCHED, EMERGENCY, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.

*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING, AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

INTERIOR LIGHTING

A	LIGHT FIXTURE
a	a = LIGHT FIXTURE TYPE "A"
+	+ = SWITCHED BY SWITCH "a"
+	↑ = WALL MOUNT
+	↓ = ARROW INDICATES AIMING DIRECTION
	CRITICAL LIGHT FIXTURE CONNECTED TO CRITICAL SOURCE*
	LIFE SAFETY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO LIFE SAFETY SOURCE*
	LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED

* SYMBOL DEMONSTRATED WITH TROFFER LIGHT FIXTURE. THE MEANING IS SIMILAR WHEN USED IN COMBINATION WITH OTHER FIXTURE TYPES.

LIGHTING CONTROL DEVICES

\$	SINGLE POLE SWITCH (NO LETTER DESIGNATION)
\$ 3	SWITCH LETTER DESIGNATIONS AS FOLLOWS:
3	2 = TWO POLE
3	3 = THREE-WAY
3	4 = FOUR-WAY
3	D = DIMMER
3	F = FAN SPEED CONTROL
3	K = KEYS
3	LV = LOW VOLTAGE
3	OS = OCCUPANCY SENSOR
3	WP = WEATHER PROOF

RA a	RELAY/ROOM CONTROLLER RA = RELAY/ROOM CONTROLLER TYPE "A". a = SWITCH ID "a"
OA	OCCUPANCY SENSOR - CEILING MOUNTED, COVERAGE PATTERN INDICATED BY WAVES. OA = OCCUPANCY SENSOR TYPE "A".
DA	DAYLIGHT SENSOR - CEILING MOUNTED, AIMING DIRECTION INDICATED BY WAVES. DA = DAYLIGHT SENSOR TYPE "A".
ALCR	AUTOMATIC LOAD CONTROL RELAY
BTS	BRANCH CIRCUIT TRANSFER SWITCH

NOTE: REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR ADDITIONAL INFORMATION, INCLUDING DEVICE AND TYPE SPECIFICATIONS.

POWER EQUIPMENT & DEVICES

	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)
	SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD
	ELECTRICAL DISTRIBUTION PANELBOARD
	TRANSFORMER
	MOTOR
	DISCONNECT SWITCH 200/3/150/3R = AMPERES/POLE/FUSE/NEMA RATING NF = NON-FUSED CB = CIRCUIT BREAKER (200/3/CB) NO VALUE (200/3/150/1) FOR NEMA RATING MEANS STANDARD NEMA 1 RATING
200/3/150/3R	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER 30/3/15/1/3R = AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA RATING NF = NON-FUSED CB = CIRCUIT BREAKER (30/3/CB/1) NO VALUE (200/3/150/1) FOR NEMA RATING MEANS STANDARD NEMA 1 ENCLOSURE RATING
30/3/15/1/3R	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO
2	MANUAL MOTOR STARTER DISCONNECT
M	FRACTIONAL HORSEPOWER MANUAL CONTROLLER
FH	INTEGRAL HORSEPOWER MANUAL CONTROLLER
IH	VARIABLE FREQUENCY DRIVE
VFD	RELAY (IN SCHEMATICS)
R	CONTACTOR
C	TIME SWITCH
TS	PHOTOCELL
PC	

WIRING DEVICES & BOXES

	SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
	DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
	TWIST-LOCK TYPE RECEPTACLE
	GFCI TYPE RECEPTACLE
	ISOLATED GROUND TYPE RECEPTACLE*
	EMERGENCY RECEPTACLE*
	RECEPTACLE - ABOVE COUNTER*
	RECEPTACLE - CEILING MOUNTED*
	RECEPTACLE - FURNITURE MOUNTED*
	RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS: C = AUTOMATICALLY CONTROLLED CH = CLOCK HANGER TYPE DEMO = DEMOLISHED ETR = EXISTING TO REMAIN H = HORIZONTALLY MOUNTED RELO = RELOCATED S = MANUALLY CONTROLLED TR = TAMPER RESISTANT USB = 2-USB PORT AND DUPLEX RECEPTACLE WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TV = TELEVISION EWC = ELECTRICAL WATER COOLER
WRWP	MULTI-OUTLET ASSEMBLY
	TELEPHONE/DATA OUTLET
	TELEPHONE/DATA - ABOVE COUNTER
	TELEPHONE/DATA - CEILING MOUNTED
	TELEPHONE/DATA - FLOOR MOUNTED
	POWER POLE WITH TELEPHONE, DATA, AND POWER OUTLETS/FURNITURE FEED, A = TYPE "A"
	FLOOR BOX WITH TELEPHONE, DATA, AND POWER OUTLETS/FURNITURE FEED, A = TYPE "A"
	POKE THROUGH WITH TELEPHONE, DATA, AND POWER OUTLETS/FURNITURE FEED, A = TYPE "A"
	WALL MOUNTED JUNCTION BOX/OUTLET BOX
	JUNCTION BOX/OUTLET BOX INSTALLED IN CEILING
	BLANK FACE GFCI FEED THROUGH DEVICE

* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE. THE MEANING IS SIMILAR WHEN USED IN COMBINATION WITH OTHER DEVICE TYPES.

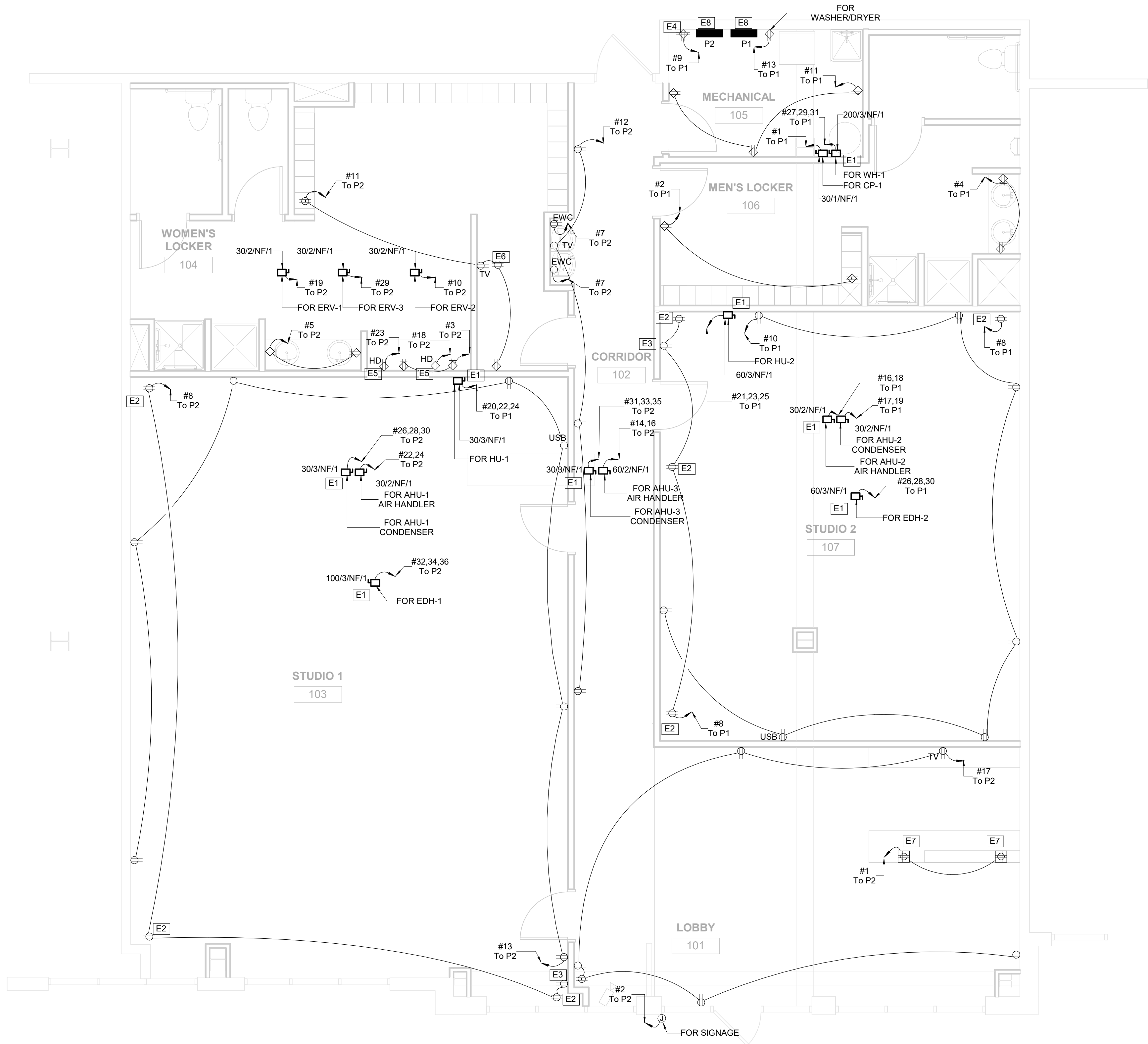
ELECTRICAL ONE-LINE DIAGRAM

	CIRCUIT BREAKER
	DRAWOUT CIRCUIT BREAKER
	COMBINATION CIRCUIT BREAKER/STARTER
	SWITCH
	FUSED SWITCH
	COMBINATION FUSED SWITCH/STARTER
	PANELBOARD (ONE OR MULTIPLE SECTIONS)
	ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER
	TRANSFORMER
	SHIELDED TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	AUTOMATIC TRANSFER SWITCH WITH BYPASS
	GENERATOR
	NON-SEPARATELY DERIVED SOURCE OR SEPARATELY DERIVED SOURCE
	SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD
	DIGITAL (VM/AM)
GFR	GROUND FAULT RELAY
PFR	PHASE FAILURE RELAY
KKK	KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)
ST	SHUNT TRIP
AM	AMMETER
VM	VOLTMETER
UTILITY METER	UTILITY METER (AS REQUIRED BY UTILITY)
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
SPD	SURGE-PROTECTION DEVICE
	GROUND CONNECTION
	GROUND CONNECTION WITH TEST WELL
	GROUND ROD
	HEATER
HP	MOTOR
##	BLOCK LOAD KW OR KVA

GENERAL ELECTRICAL NOTES:

- FEDERAL, STATE, LOCAL, MUNICIPAL AND UTILITY COMPANY CODES, RULES AND REGULATIONS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- NO WORK SHALL BE PERFORMED PRIOR TO REVIEW AND APPROVAL OF ALL REQUIRED SHOP DRAWINGS, PRODUCT MATERIAL AND EQUIPMENT SUBMITTALS. ANY WORK INSTALLED PRIOR TO MEETING THESE REQUIREMENTS SHALL BE REMOVED BY CONTRACTOR WHERE DIRECTED BY CONTRACT ADMINISTRATOR.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
- THE DRAWINGS REPRESENT THE BEST INFORMATION AVAILABLE TO THE ENGINEER. ALL DIMENSIONS AND SIZES SHALL BE FIELD VERIFIED. DO NOT SCALE FROM DRAWINGS. SMALL DEVIATIONS BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS ENCOUNTERED SHALL BE RECONCILED DURING THE PERFORMANCE OF THE WORK AND SHALL NOT CONSTITUTE REASON FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. NOTIFY THE CONTRACT ADMINISTRATOR IF ACTUAL CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED ON THE DRAWINGS.
- COORDINATE WITH ALL OTHER TRADES. MAKE ADJUSTMENTS AND OFFSETS WHERE NEEDED FOR CLEARANCE REQUIREMENTS. REFER TO ALL OTHER DISCIPLINE DRAWINGS FOR COORDINATION.
- COORDINATE ALL OPENINGS IN WALLS, FLOORS, ROOFS AND FOUNDATIONS WITH OTHER CONTRACTORS.
- FURNISH TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
- SUBMIT COPIES OF INSPECTIONS, REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS TO THE ARCHITECT.
- UNLESS OTHERWISE NOTED, ALL CIRCUITRY SHALL BE #12 AWG IN 1/2" CONDUIT.
- ALL GFCI PROTECTED CIRCUITS SHALL HAVE INDIVIDUAL AND DEDICATED NEUTRALS.
- FIELD VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL HVAC AND PLUMBING EQUIPMENT WITH OTHER TRADE CONTRACTORS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT.
- ALL EXPOSED CONDUIT AND BOXES WITHIN EXPOSED CEILING SPACES SHALL BE PAINTED TO MATCH SURROUNDING CEILING AND STRUCTURE. PROVIDE CONDUIT PARALLEL TO STRUCTURAL LINES IN A NEAT MANNER.
- ALL JUNCTION BOXES SHALL BE RIGIDLY ATTACHED TO STRUCTURE OR MILLWORK.
- COORDINATE SETTINGS AND ADJUST SENSORS WHEREVER NECESSARY FOR PROPER LIGHTING CONTROL IN SPACES. REFER TO SPECIFICATIONS FOR MORE INFORMATION. ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL NOT BE INSTALLED WITHIN FOUR FEET OF ANY CEILING MOUNTED PROJECTOR PROVIDED BY OWNER.
- ALL LIGHTING CONTROL INCLUDING OCCUPANCY SENSOR AND RELAY CONTROL PANEL SETTINGS SHALL BE COORDINATED WITH OWNER PRIOR TO COMPLETION OF WORK. CONTROLS SHALL BE TESTED AND FULLY COMMISSIONED. COORDINATE ALL LIGHTING CONTROL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
- ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS. SEE SPECIFICATIONS FOR ADDITION INFORMATION.
- PROVIDE STANDARD MOUNTING HEIGHTS FOR ALL ELECTRICAL, LIGHTING, TELE/DATA AND FIRE ALARM DEVICES AS INDICATED ON THE ELECTRICAL SYMBOLS AND LEGEND SHEET. HEIGHTS SHALL BE TO THE CENTERLINE OF THE DEVICE, MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED ON THE PLANS. REFER TO ARCHITECTURAL ELEVATIONS AND DETAILS FOR FINAL DEVICE MOUNTING AND REQUIREMENTS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT MOUNTING REQUIREMENTS OF ELECTRICAL DEVICES WITHIN MILLWORK.
- ALL CONDUIT FITTINGS ARE TO BE COMPRESSION FITTINGS UNLESS OTHERWISE INDICATED. REFER TO THE SPECIFICATIONS FOR EXACT REQUIREMENTS.
- PROVIDE A SEPARATE CODE SIZED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CONDUITS AND RACEWAYS CONTAINING LINE VOLTAGE CIRCUITS. FOR ALL 20A CIRCUITS, EQUIPMENT GROUND CONDUCTOR SIZE SHALL MATCH PHASE CONDUCTOR SIZE. FOR CIRCUITS UPSIZED FOR VOLTAGE DROP INCREASE EQUIPMENT GROUNDING CONDUCTOR SIZE PER CODE.
- NEUTRALS SHALL NOT BE SHARED FOR ANY WIRING UNLESS FOR SYSTEMS FURNITURE REQUIRING A SHARED NEUTRAL. PROVIDE HANDLE TIE BREAKERS FOR THESE INSTANCES.
- VERIFY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO FINAL ROUGH-IN.
- DO NOT INSTALL ANY CONDUITS WITHIN SLABS. ADDITIONALLY ON GROUND FLOORS, DO NOT INSTALL ANY CONDUITS UNDER SLAB EXCEPT AS INDICATED ON DRAWINGS.
- COORDINATE FINAL CONNECTIONS TO EACH EQUIPMENT WITH APPROVED MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE ALL COMPONENTS FOR A COMPLETE ELECTRICAL CONNECTION.
- PANELS SHALL BE VACUUM CLEANED OF ANY DEBRIS. ALL OPENINGS REMAINING SHALL BE SEALED WITH THE PROPER DEVICE (IE. KNOCKOUT BLANKS, BREAKER BLANKS, ETC) LISTED AND APPROVED FOR SUCH USE.
- CONTRACTOR SHALL CLEAN ALL DEVICE BACKBOXES AND JUNCTION BOXES AND SHALL INSTALL A BLANK PLATE ON ANY BOX DESIGNATED AS FUTURE USE FOR A DEVICE TO BE INSTALLED BY OTHERS.
- MOUNT LIGHT FIXTURES AT HEIGHTS INDICATED ON PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY SPECIFIC MOUNTING REQUIREMENTS. COORDINATE ANY DISCREPANCIES WITH CONTRACT ADMINISTRATOR.
- PROVIDE ALL MOUNTING AND SUPPORT HARDWARE REQUIRED TO MEET SPECIFIED MOUNTING HEIGHTS OF LIGHT FIXTURES.
- CONNECT EMERGENCY LIGHTS AND EXIT SIGNS TO LIFE SAFETY CIRCUIT OF NEAREST EMERGENCY LIGHT FIXTURE WITH A CONSTANT HOT PHASE CONDUCTOR. DO NOT SWITCH.
- PROVIDE UL RATED FIRE STOPPING ASSEMBLIES AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION. SEAL ALL PENETRATIONS OF SMOKE WALLS SMOKE TIGHT.
- PROVIDE BACK BOX AND CONDUIT FOR ROUGH-IN OF ALL MECHANICAL CONTROLLERS AND SENSORS. ROUTE CONDUIT TO ABOVE THE ACCESSIBLE CEILING SPACE. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH MECHANICAL PLANS AND SPECIFICATIONS. SENSORS AND CONTROLLERS SHALL BE MOUNTED AT SAME ELEVATION AS LIGHT SWITCHES UNLESS REQUIRED OTHERWISE BY MECHANICAL PLANS AND SPECIFICATIONS.

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1 POWER PLAN
1/4" = 1'-0"

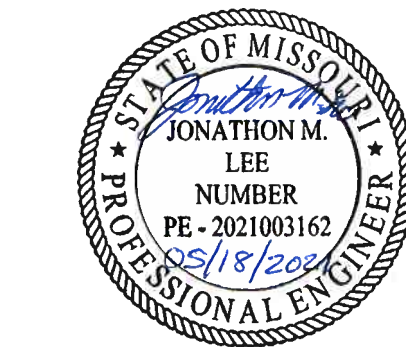
- ELECTRICAL PLAN NOTES:**
- E1 POWER CONNECTION POINT FOR THE MECHANICAL EQUIPMENT. NF DISCONNECT SWITCHES SHALL BE PROVIDED IF THE DISCONNECT SWITCH WAS NOT PROVIDED WITH THE UNIT. COORDINATE FINAL LOCATION WITH MECHANICAL EQUIPMENT CONTRACTOR. VERIFY OCPD SIZE AND INCOMING FEEDER WITH THE FINAL MECHANICAL EQUIPMENT MATERIAL SUBMITTAL.
 - E2 COORDINATE CEILING RECEPTACLE WITH SPEAKER LOCATION.
 - E3 DUPLEX RECEPTACLE FOR MICROPHONE SYSTEM.
 - E4 DOUBLE DUPLEX RECEPTACLE FOR NETWORKING AND HVAC. COORDINATE LOCATION WITH IT EQUIPMENT.
 - E5 PROVIDE UNDERCOUNTER RECEPTACLE FOR HAIR DRYER.
 - E6 MOUNT RECEPTACLE IN CEILING. VERIFY LOCATION WITH OWNER.
 - E7 FURNITURE MOUNTED RECEPTACLE. RECEPTACLE RACEWAY TO THE NEAREST WALL. RACEWAY VISIBILITY TO BE MINIMIZED.
 - E8 PANELS TO BE PROVIDED AND INSTALLED BY LANDLORD. INCOMING OCPD SIZE AND CABLE SIZE WILL BE PROVIDED PER THE LANDLORD ONE LINE DIAGRAM AND DRAWINGS.

POWERLIFE YOGA

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REVISION DATES:

NO.	DATE	DESCRIPTION



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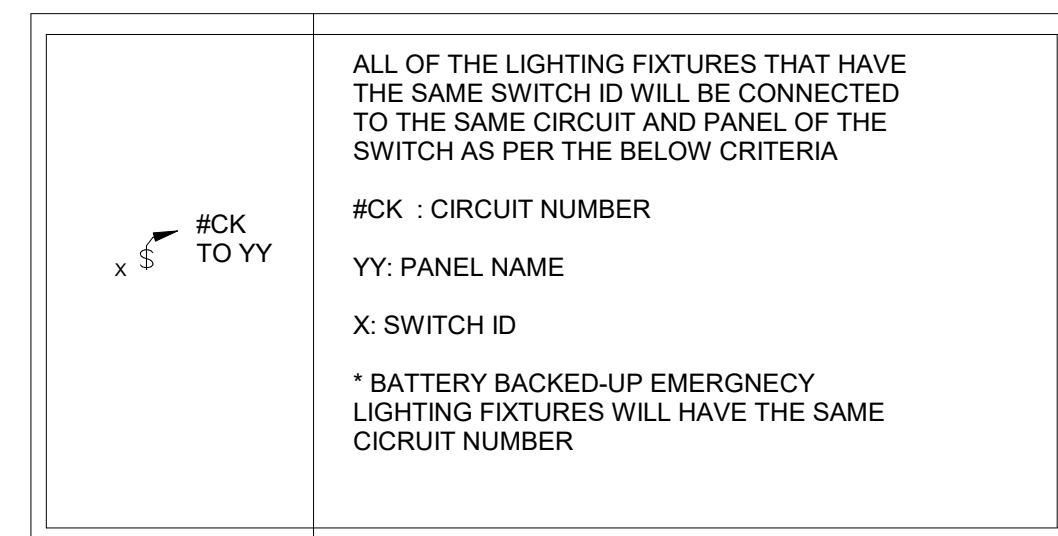
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ISSUE DATE: 18 MAY 2021
HOEFER WELKER #: 112011

POWER PLAN

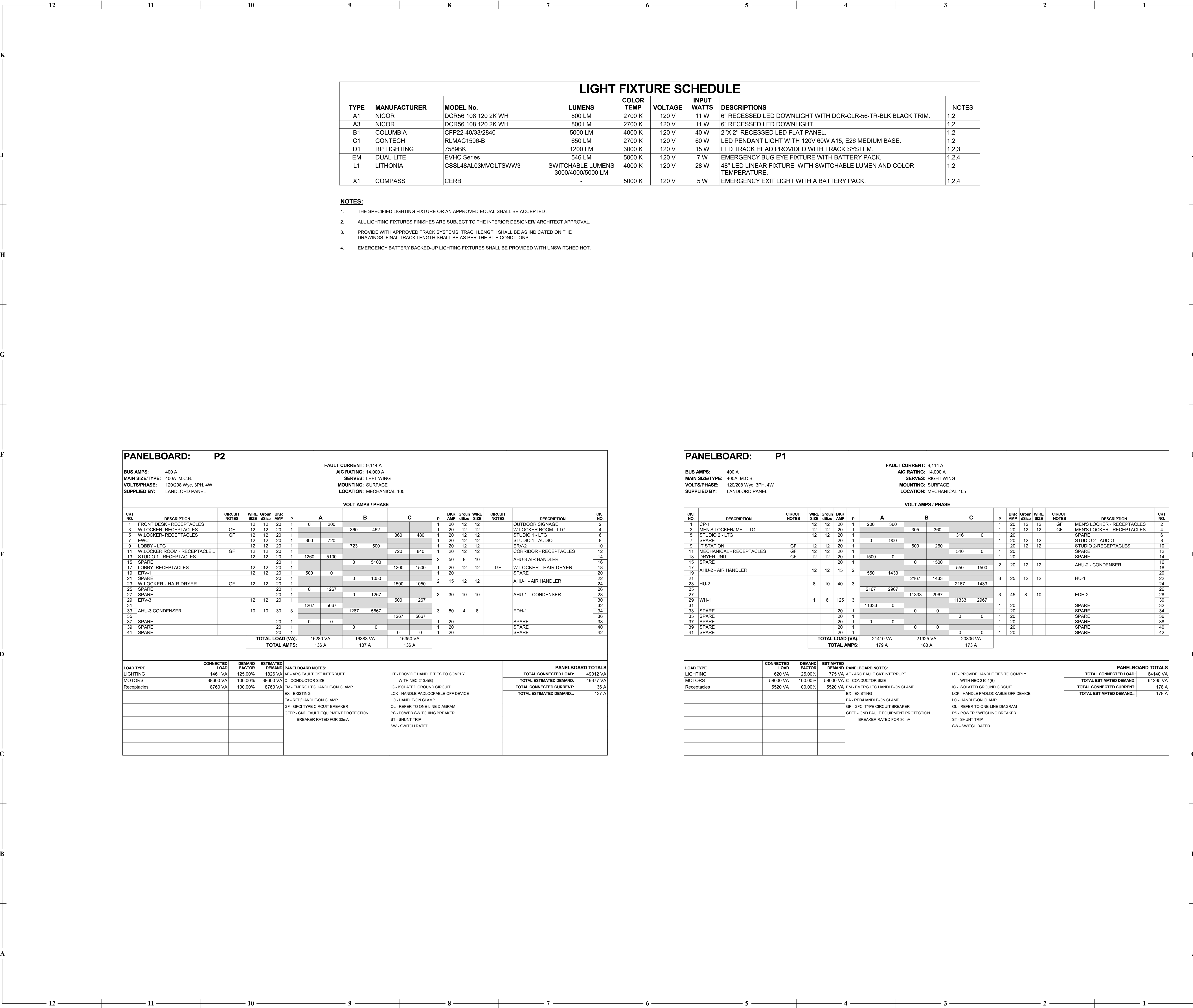


ISSUE DATE: 18 MAY 2021
HOEFER WELKER #: 112011



E9 VERIFY TRACK LOCATION
AND AIMING WITH OWNERS

1 LIGHTING PLAN
1/4" = 1'-0"



LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL No.	LUMENS	COLOR TEMP	VOLTAGE	INPUT WATTS	DESCRIPTIONS	NOTES
A1	NICOR	DCR56 108 120 2K WH	800 LM	2700 K	120 V	11 W	6" RECESSED LED DOWNLIGHT WITH DCR-CLR-56-TR-BLK BLACK TRIM.	1,2
A3	NICOR	DCR56 108 120 2K WH	800 LM	2700 K	120 V	11 W	6" RECESSED LED DOWNLIGHT.	1,2
B1	COLUMBIA	CFP22-40/33/2840	5000 LM	4000 K	120 V	40 W	2"X 2" RECESSED LED FLAT PANEL.	1,2
C1	CONTECH	RLMAC1596-B	650 LM	2700 K	120 V	60 W	LED PENDANT LIGHT WITH 120V 60W A15, E26 MEDIUM BASE.	1,2
D1	RP LIGHTING	7589BK	1200 LM	3000 K	120 V	15 W	LED TRACK HEAD PROVIDED WITH TRACK SYSTEM.	1,2,3
EM	DUAL-LITE	EVHC Series	546 LM	5000 K	120 V	7 W	EMERGENCY BUG EYE FIXTURE WITH BATTERY PACK.	1,2,4
L1	LITHONIA	CSSL48AL03MVOLTSWW3	SWITCHABLE LUMENS 3000/4000/5000 LM	4000 K	120 V	28 W	48" LED LINEAR FIXTURE WITH SWITCHABLE LUMEN AND COLOR TEMPERATURE.	1,2
X1	COMPASS	CERB	-	5000 K	120 V	5 W	EMERGENCY EXIT LIGHT WITH A BATTERY PACK.	1,2,4

NOTES:

- THE SPECIFIED LIGHTING FIXTURE OR AN APPROVED EQUAL SHALL BE ACCEPTED.
- ALL LIGHTING FIXTURES FINISHES ARE SUBJECT TO THE INTERIOR DESIGNER/ ARCHITECT APPROVAL.
- PROVIDE WITH APPROVED TRACK SYSTEMS. TRACH LENGTH SHALL BE AS INDICATED ON THE DRAWINGS. FINAL TRACK LENGTH SHALL BE AS PER THE SITE CONDITIONS.
- EMERGENCY BATTERY BACKED-UP LIGHTING FIXTURES SHALL BE PROVIDED WITH UNSWITCHED HOT.

PANELBOARD: P2

BUS AMPS: 400 A
MAIN SIZE/TYPER: 400A M.C.B.
VOLTS/PHASE: 120/208 Wye, 3PH, 4W
SUPPLIED BY: LANDLORD PANEL

FAULT CURRENT: 9,114 A
AIC RATING: 14,000 A
SERVES: LEFT WING
MOUNTING: SURFACE
LOCATION: MECHANICAL 105

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT NOTES	WIRE SIZE (Gross)	BKR AMP	P	A	B	C	P	BKR AMP (Gross)	WIRE SIZE	CIRCUIT NOTES	DESCRIPTION	CKT NO.
1	FRONT DESK - RECEPTACLES		12 12 20	1	0	200			1	20 12 12	12		OUTDOOR SIGNAGE	2
3	W LOCKER- RECEPTACLES	GF	12 12 20	1			360	452		1	20 12 12		W LOCKER ROOM - LTG	4
5	W LOCKER- RECEPTACLES	GF	12 12 20	1					1	20 12 12	12		STUDIO 1 - LTG	6
7	EWG		12 12 20	1	300	720			1	20 12 12	12		STUDIO 1 - AUDIO	8
9	LOBBY - LTG		12 12 20	1			723	500		1	20 12 12		ERV-2	10
11	W LOCKER ROOM - RECEPTACLE...	GF	12 12 20	1					1	20 12 12	12		CORRIDOR - RECEPTACLES	12
13	STUDIO 1 - RECEPTACLES		12 12 20	1	1260	5100			2	50 8 10			AHU-3 AIR HANDLER	14
15	SPARE		20 1				0	5100						16
17	LOBBY- RECEPTACLES		12 12 20	1				1200	1500	1	20 12 12	GF	W LOCKER - HAIR DRYER	18
19	ERV-1		12 12 20	1	500	0			1	20			SPARE	20
21	SPARE		20 1				0	1050		2	15 12 12		AHU-1 - AIR HANDLER	22
23	W LOCKER - HAIR DRYER	GF	12 12 20	1				1500	1050					24
25	SPARE		20 1		0	1267								26
27	SPARE		20 1				0	1267		3	30 10 10		AHU-1 - CONDENSER	28
29	ERV-3		12 12 20	1	1267	5667			500	1267				30
31														32
33	AHU-3 CONDENSER		10 10 30	3			1267	5667		3	80 4 8		EDH-1	34
35								1267	5667					36
37	SPARE		20 1		0	0				1	20		SPARE	38
39	SPARE		20 1				0	0		1	20		SPARE	40
41	SPARE		20 1					0	0	1	20		SPARE	42
TOTAL LOAD (VA):						16280 VA		16383 VA						
TOTAL AMPS:						136 A		137 A						

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD NOTES:	PANELBOARD TOTALS
LIGHTING	1461 VA	125.00%	1826 VA	AF - ARC FAULT CKT INTERRUPT WITH NEC 210.4(B)	TOTAL CONNECTED LOAD: 49012 VA
MOTORS	38600 VA	100.00%	38600 VA	C - CONDUCTOR SIZE	TOTAL ESTIMATED DEMAND: 49377 VA
Receptacles	8760 VA	100.00%	8760 VA	EM - EMERG LTG HANDLE-ON CLAMP	TOTAL CONNECTED CURRENT: 136 A
				EX - EXISTING	TOTAL ESTIMATED DEMAND: 137 A
				FA - RED HANDLE-ON CLAMP	
				GF - GFCI TYPE CIRCUIT BREAKER	
				GFEP - GND FAULT EQUIPMENT PROTECTION	
				BREAKER RATED FOR 30mA	
				HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)	
				IG - ISOLATED GROUND CIRCUIT	
				LOK - HANDLE PAD LOCKABLE-OFF DEVICE	
				LO - HANDLE-ON CLAMP	
				OL - REFER TO ONE-LINE DIAGRAM	
				PS - POWER SWITCHING BREAKER	
				ST - SHUNT TRIP	
				SW - SWITCH RATED	

PANELBOARD: P1

BUS AMPS: 400 A
MAIN SIZE/TYPER: 400A M.C.B.
VOLTS/PHASE: 120/208 Wye, 3PH, 4W
SUPPLIED BY: LANDLORD PANEL

FAULT CURRENT: 9,114 A
AIC RATING: 14,000 A
SERVES: RIGHT WING
MOUNTING: SURFACE
LOCATION: MECHANICAL 105

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT NOTES	WIRE SIZE (Gross)	BKR AMP	P	A	B	C	P	BKR AMP (Gross)	WIRE SIZE	CIRCUIT NOTES	DESCRIPTION	CKT NO.
1	CP-1		12 12 20	1	200	360			1	20 12 12	12	GF	MEN'S LOCKER - RECEPTACLES	2
3	MEN'S LOCKER/ ME - LTG		12 12 20	1			305	360		1	20 12 12	GF	MEN'S LOCKER - RECEPTACLES	4
5	STUDIO 2 - LTG		12 12 20	1					1	20			SPARE	6
7	SPARE		20 1		0	900			1	20 12 12	12		STUDIO 2 - AUDIO	8
9	IT STATION	GF	12 12 20	1			600	1260		1	20 12 12		STUDIO 2-RECEPTACLES	10
11	MECHANICAL - RECEPTACLES	GF	12 12 20	1					1	20			SPARE	12
13	DRYER UNIT	GF	12 12 20	1	1500	0			1	20			SPARE	14
15	SPARE		20 1				0	1500						16
17	AHU-2 - AIR HANDLER		12 12 15	2				550	1500	2	20 12 12		AHU-2 - CONDENSER	18
19														20
21														22
23	HU-2		8 10 40	3						3	25 12 12		HU-1	24
25														26
27										3	45 8 10		EDH-2	28
29	WH-1		1 6 125	3										30
31														32
33	SPARE		20 1				0	0		1	20		SPARE	34
35	SPARE		20 1					0	0	1	20		SPARE	36
37	SPARE		20 1		0	0				1	20		SPARE	38
39	SPARE		20 1				0	0		1	20		SPARE	40
41	SPARE		20 1					0	0	1	20		SPARE	42
TOTAL LOAD (VA):						21410 VA		21925 VA						
TOTAL AMPS:						179 A		183 A						

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANELBOARD NOTES:	PANELBOARD TOTALS
LIGHTING	620 VA	125.00%	775 VA	AF - ARC FAULT CKT INTERRUPT WITH NEC 210.4(B)	TOTAL CONNECTED LOAD: 64140 VA
MOTORS	58000 VA	100.00%	58000 VA	C - CONDUCTOR SIZE	TOTAL ESTIMATED DEMAND: 64295 VA
Receptacles	5520 VA	100.00%	5520 VA	EM - EMERG LTG HANDLE-ON CLAMP	TOTAL CONNECTED CURRENT: 178 A
				EX - EXISTING	TOTAL ESTIMATED DEMAND: 178 A
				FA - RED HANDLE-ON CLAMP	
				GF - GFCI TYPE CIRCUIT BREAKER	
				GFEP - GND FAULT EQUIPMENT PROTECTION	
				BREAKER RATED FOR 30mA	
				HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)	
				IG - ISOLATED GROUND CIRCUIT	
				LOK - HANDLE PAD LOCKABLE-OFF DEVICE	
				LO - HANDLE-ON CLAMP	
				OL - REFER TO ONE-LINE DIAGRAM	
				PS - POWER SWITCHING BREAKER	
				ST - SHUNT TRIP	
				SW - SWITCH RATED	

GENERAL NOTES:

- VERIFY MECHANICAL EQUIPMENT OCPD SIZE AND INCOMING FEEDER WITH THE FINAL APPROVED MECHANICAL EQUIPMENT SUBMITTAL.
- VERIFY SMALL APPLIANCES OCPD SIZE AND WIRE SIZE WITH THE FINAL APPROVED MATERIAL SUBMITTAL.



PERMIT SET

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SCHEDULES