

**SOUTHSIDE
PLAZA
404 Southwest
Nichols Street
Lees Summit
Missouri, 64063**

MAINTAIN ACCESS TO EXISTING WALKWAYS, CORRIDORS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT WALKWAYS, CORRIDORS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM TENANT.

2. DEFINITIONS:

2.1. REMOVE AND DISCARD: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE.

2.2. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND TURN OVER TO TENANT UNDAMAGED.

2.3. RELOCATE: DETACH ITEMS FROM EXISTING CONSTRUCTION, MOVE ITEMS OFF-SITE AND UNDAMAGE THEM, AND REINSTALL THEM IN A NEW LOCATION.

2.4. EXISTING TO REMAIN: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE REMOVED, BUT ARE TO REMAIN IN PLACE AND BE UNDAMAGED.

2.5. REMOVE AND RECLAIM: DETACH ITEMS FROM EXISTING CONSTRUCTION. AT CONTRACTORS OPTION ITEM MAY BE REUSED AS PART OF NEW WORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INVENTORY ITEMS TO DETERMINE IF ITEMS WILL FUNCTION AND APPEAR LIKE THE NEW ITEMS SPECIFIED AND CALLED OUT ON THESE DOCUMENTS. IF ITEMS ARE REUSED, CONTRACTOR IS TO CLEAN, REPAIR, OR OTHERWISE BRING ITEMS TO LIKE NEW CONDITION. MODIFY REUSED ITEMS AS REQUIRED AND SUPPLEMENT WITH MATERIALS, AND INCIDENTALS NECESSARY TO EXECUTE A COMPLETE WORKMANLIKE JOB. IF CONTRACTOR CHOOSES TO NOT REUSE ITEM, LEGALLY DISPOSE OF ITEM OFF-SITE AND REPLACE WITH NEW TO MATCH EXISTING.

2.6. PROVIDE: THE MEANING OF THE WORD "PROVIDE" INCLUDES, BUT IS NOT LIMITED TO, FURNISHED, DELIVERED, INSTALLED, FINISHED, MADE FULLY OPERABLE AND COMPLETE. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK DESCRIBED IN THESE DOCUMENTS IS TO BE PROVIDED BY THE CONTRACTOR.

3. CONTRACTOR IS TO INCLUDE AS PART OF HIS SCOPE ALL CUTTING AND PATCHING REQUIRED THROUGH CAREFUL EVALUATION OF THE EXISTING SITE AND THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL COORDINATE THE CUTTING AND PATCHING OF EXISTING CONSTRUCTION NECESSARY TO PERMIT INSTALLATION OR PERFORMANCE OF THE WORK INDICATED IN THESE CONSTRUCTION DOCUMENTS. SAW-CUT CONC. SLAB AS REQUIRED FOR UTILITIES, FOR EQUIPMENT AND SINKS. VERIFY ROUGH AND TRENCH DEPTH IN FIELD, PATCH BACK WITH MATCHING SLAB THICKNESS OVER SAME MATERIAL, COMPACT UNDERLYING MATERIALS TO MEET BEST PRACTICES. DOVEL NEW TO EXISTING WITH #4 REBAR AT 30" OC.

4. WHERE WALLS, CASEWORK, FINISHES, EQUIPMENT OR OTHER ITEMS AND CONSTRUCTIONS HAVE BEEN REMOVED EXPOSING UNDERLYING WALL AND/OR FLOOR SURFACES, SUCH SURFACES ARE TO BE PATCHED AND REPAIRED AS REQUIRED TO ACCEPT NEW FINISHES. ALL HOLES, DAMAGES, DEFECTS, ETC. IN EXISTING SURFACES ARE TO BE PATCHED TO MATCH EXISTING CONDITIONS.

5. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED UPON BASE BUILDING OR OTHER CONSTRUCTION DOCUMENTS MADE AVAILABLE TO THE DESIGNER BY THE BUILDING MANAGEMENT. ALL AS-BUILT ARCHITECTURAL CONDITIONS HAVE NOT BEEN FIELD VERIFIED AND MAY VARY FROM THOSE SHOWN.

6. PRIOR TO BID: FIELD VERIFY ALL EXISTING CONSTRUCTION TO REMAIN AND INCLUDE COSTS FOR REPAIR AND RECONSTRUCTION OF ALL EXISTING CONSTRUCTION TO REMAIN SO THAT IT MEETS THE AESTHETIC AND FUNCTIONAL STANDARD OF QUALITY FOR NEW CONSTRUCTION. BLEND AND MATCH EXISTING CONSTRUCTION WITH NEW CONSTRUCTION. PRIOR TO BID, ADVISE TENANT OF ANY CONDITIONS WHICH CANNOT BE REPAIRED OR RECONDITIONED, BLENDED AND MATCHED. NOTE CONTRACT DOCUMENT REQUIREMENTS FOR EXISTING CONSTRUCTION AND INCLUDE COSTS FOR THIS WORK IN BID PROPOSAL.

7. THE GENERAL CONTRACTOR SHALL, IN THE BIDDING PROCESS, REQUIRE THAT MECHANICAL AND ELECTRICAL SUBCONTRACTORS MAKE A THOROUGH FIELD INSPECTION OF AS-BUILT CONDITIONS OF EXISTING SYSTEMS. AFTER SUCH FIELD VERIFICATION HAS BEEN COMPLETED, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE IN THEIR BIDS, ANY MODIFICATIONS TO THE EXISTING SYSTEMS WHICH MAY BE REQUIRED TO ACCOMMODATE THE PROPOSED REQUIREMENTS FOR THIS TENANT. IF A DETERMINATION OF SUCH MODIFICATIONS CANNOT BE MADE, THE GENERAL CONTRACTOR SHALL NOTIFY THE TENANT, AND AT THE DIRECTION OF THE TENANT, PROVIDE AN AGREED UPON ALLOWANCE TO COVER SUCH WORK.

8. COMMENCING WORK BY A CONTRACTOR OR SUBCONTRACTOR CONSTITUTES ACCEPTANCE OF THE UNDERLYING CONDITIONS AND SURFACES. PRIOR TO PROCEEDING WITH THE WORK, PREPARE EXISTING AND NEW UNDERLYING CONDITIONS AND SUBSTRATE TO COMPLY WITH THE CONTRACT DOCUMENTS, INDUSTRY STANDARDS AND MANUFACTURER'S RECOMMENDATION.

9. FIELD VERIFY ALL ROUGH OPENINGS AND WALL WIDTHS PRIOR TO ORDERING OR FABRICATION OF MATERIALS.

10. DIMENSIONS ARE NOMINAL AND TO THE FACE OF PARTITIONS.

11. CLEAN-UP OF RUBBISH AND DEBRIS RESULTING FROM DEMOLITION AND NEW WORK SHALL BE COLLECTED REGULARLY FROM PROJECT SITE AND LEGALLY DISPOSED.

12. ALL WEATHER EXPOSED SURFACES SHALL HAVE A WEATHER RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING AND EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A MANNER AS TO MAKE THEM WEATHERPROOF.

13. BUILDING ADDRESS NUMBERS SHALL BE PROVIDED AND PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. IN MULTI-TENANT COMMERCIAL BUILDINGS WHERE TENANTS HAVE MULTIPLE ENTRANCES LOCATED ON DIFFERENT SIDES OF THE BUILDING EACH DOOR SHALL BE ADDRESSED. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMBERS SHALL BE A MINIMUM OF 4 INCHES (102 MM) HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCH (12.7 MM).

14. CONTRACTORS ARE RESPONSIBLE FOR ALL MATERIALS AND QUANTITIES SHOWN IN THESE DRAWINGS GRAPHICALLY AS WELL AS THOSE CALLED FOR BY NOTE.

15. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE PROPOSED WORK AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

16. THE TENANT OR THE TENANT'S DESIGNATED REPRESENTATIVE WILL PROVIDE SERVICES IN CONNECTION WITH ADMINISTRATION OF THE CONTRACT.

17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS OF THE GOVERNING AGENCIES HAVING JURISDICTION.

18. THE CONTRACTOR MUST TAKE ADEQUATE CARE TO PROTECT ALL AREAS OF THE BUILDING WHERE THE WORK OF THIS PROJECT IS LOCATED AS WELL AS THE AREAS ADJACENT TO THE AREA OF THE WORK OF THIS PROJECT SO AS TO PREVENT DAMAGE TO LIFE OR PROPERTY AS A RESULT OF THIS CONSTRUCTION PROJECT.

19. ONLY MATERIALS THAT ARE NEW, UNUSED, FREE FROM DEFECTS, AND THE

20. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES INCLUDING THOSE OF THE TENANT WHO MAY BE ENGAGED UNDER A SEPARATE CONTRACT.

21. INSTALL ALL WORK IN SUCH A MANNER AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND/OR REPAIRS.

22. ALL WORK AND EQUIPMENT SHALL BE CLEANED TO THE SATISFACTION OF THE TENANT BEFORE BEING TURNED OVER FOR USE.

23. A COPY OF THE LATEST SET OF CONSTRUCTION DOCUMENTS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.

24. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL KEEP ACCURATE RECORDS OF ANY MODIFICATION OR DEVIATIONS FROM THE CONTRACT DRAWINGS.

25. PROJECT CLOSE OUT DOCUMENTS SHALL BE PROVIDED TO THE TENANT. INCLUDE AS-BUILT DRAWINGS, WARRANTY/MAINTENANCE MANUALS AND TESTING AND SUPERVISION AS REQUIRED. PRESERVE ALL PRINTED INSTRUCTIONS AND WARRANTIES THAT ARE PROVIDED WITH EQUIPMENT OR MATERIALS USED, AND DELIVER SAID PRINTED MATTER TO THE TENANT AT THE TIME OF SUBSTANTIAL COMPLETION. IF REQUESTED BY THE TENANT, INSTRUCT THE MANAGEMENT IN THE PROPER USE AND MAINTENANCE OF ALL ITEMS OF WORK PROVIDED.

26. PROVIDE WORK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. EXCEPT IN THE CASE WHERE THE CONTRACT DOCUMENTS ARE MORE STRINGENT. PROVIDE ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR PROPER INSTALLATION OF THE WORK.

27. ALL WORK SHALL BE WARRANTED BY THE CONTRACTOR TO BE SATISFACTORY, IN MATERIALS AND WORKMANSHIP, FOR A MINIMUM PERIOD OF ON (1) YEAR, OR FOR THE PERIOD OF WARRANTY CUSTOMARY, SPECIFIED FOR, THE TRADE, CRAFT OR PRODUCT, WHICHEVER IS LONGER.

28. SUBMIT REQUESTS FOR SUBSTITUTIONS OF SPECIFIED ITEMS IN WRITING, ACCOMPANIED BY THE ALTERNATIVE PRODUCT INFORMATION, TO THE TENANT. SUBSTITUTIONS MAY BE CONSIDERED ONLY IF THEY DO NOT SACRIFICE QUALITY, APPEARANCE AND FUNCTION. ACCEPTANCE OF SUBSTITUTIONS IS AT THE SOLE DISCRETION OF THE TENANT.

- A. ALL CONSTRUCTION FOR THIS PROJECT SHALL BE PERFORMED UNDER THE PROVISIONS OF FOLLOWING LIST OF CODES, AS AMENDED BY THE CITY OF LEES SUMMIT, MISSOURI:
 - A.1. 2010 INTERNATIONAL BUILDING CODE
 - A.2. 2010 INTERNATIONAL PLUMBING CODE
 - A.3. 2010 INTERNATIONAL MECHANICAL CODE
 - A.4. 2010 INTERNATIONAL FUEL GAS CODE
 - A.5. 2010 INTERNATIONAL RESIDENTIAL CODE
 - A.6. 2010 INTERNATIONAL FIRE CODE
 - A.7. 2017 NATIONAL ELECTRICAL CODE
 - A.8. ICC/ANSI A117.1-2017, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- B. USE, OCCUPANCY CLASSIFICATION, AND TYPE OF CONSTRUCTION:
 - B.1. TENANT USE: SELF SERVICE LAUNDROMAT
 - B.2. TENANT OCCUPANCY CLASSIFICATION: B - BUSINESS
 - B.3. BUILDING TYPE OF CONSTRUCTION: VB
- C. TENANT SQUARE FOOT CALCULATIONS:
 - C.1. GROSS TENANT AREA = 2,803 SF
 - C.2. OCCUPIED AREA = INSIDE FACE OF WALLS = 2,634 SF
- D. FIRE PROTECTION SYSTEMS:
 - D.1. AUTOMATIC SPRINKLER SYSTEMS: NONE PROVIDED.
 - D.2. FIRE ALARM AND DETECTION SYSTEMS: NONE PROVIDED.
- E. TENANT OCCUPANT LOAD (TABLE 1003.2.2.2):
 - E.1. 2634 SF ÷ 150SF/F/P = 17.56 = 18 OCCUPANTS



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Clean**

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COVER SHEET

CS

DIVISION 1 - GENERAL REQUIREMENTS

1. GENERAL REQUIREMENTS 01000
2. The General Conditions of the Contract for Construction of A.I.A. Document A201, latest edition, forms part of this contract as if herein bound.
3. Satisfy all applicable local codes and ordinances. Reference the cover sheet for list of codes.
4. Contractor to pay for Construction Permit Fees, Excise Tax, Tap Fees, Ect. as applicable to the local Municipalities and Utility Companies.
5. Contractor is to meet all Building Owner Standards and Instructions for work.

PRODUCTS 01600

1. Where a specific manufacturer's product is named including make or model number or other designation, it has been selected to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics of the product. Unless otherwise indicated, provided the named product or a product that is equal to or exceeds the specified product.
2. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
3. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
4. All products, and materials used in conjunction with, are to be installed in strict conformance with manufacturers instruction.

SPECIAL CONDITIONS 01700

1. General Contractor shall provide all water, light, and power necessary during construction until the completion of the building. All extensions, controls, and equipment beyond the points of temporary service shall be provided under the work of the respective Division requiring the same.
2. The General Contractor shall do all final cleaning of the building construction areas and wash windows.

CUTTING AND PATCHING

1. Contractor is to include as part of his scope all cutting and patching required through careful evaluation of the existing site and the construction documents. All holes, damages, defects, ect. in existing surfaces are to be patched to match existing conditions. Contractor shall coordinate the cutting of existing construction necessary to permit installation or performance of other Work.
2. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations. Patch with durable seams that are as invisible as possible. Use materials identical to existing materials. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of existing materials. For exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible. Before patching, verify compatibility with and suitability of substrates, including compatibility with existing and new finishes or primers.
3. Cutting: Cut existing construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use. Provide temporary support of Work to be cut. Cut concrete using a cutting machine, such as an abrasive saw or a diamond-core drill.

DIVISION 2 - SITE WORK

NO WORK THIS SECTION

DIVISION 3 - CONCRETE

REFER TO CUTTING AND PATCHING

DIVISION 4 - MASONRY

NO WORK THIS SECTION

DIVISION 5 - METALS

METAL STUD FRAMING

1. Metal Studs and Runners: shall be as manufactured by Dietrich, Inryco/Milcor, USC, or approved equal. Studs shall be sized as indicated on the drawings and of gauge recommended by the manufacturers literature. Double studs at door jams shall be 20 gauge minimum. Standard stud spacing at no more than 16" O.C. unless otherwise noted on drawings.
2. At all walls indicated to extend to underside of decking provide Dietrich SLP-TRK slotted deflection track. Install and finish per manufacturer's recommendations.

DIVISION 6 - WOODS AND PLASTIC

CARPENTRY

1. Each piece of framing lumber shall be identified by the trademark of an approved inspection agency or association. Wood framing and all rough carpentry items shall be installed in accordance with UBC and/or FHA requirements whichever is most restrictive.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

INSULATION

1. Where insulating materials listed below will not be covered with gypsum board substitute specified insulation w/ product of same thickness and R-value and similar facing, but such shall have a flame spread rating of 25 or less and a smoke developed rating of 50 or less when tested in accordance with ASTM E84 unless more stringent requirements are listed for a specific product.
2. Insulation Schedule

2.1. Exterior Walls: batts of fiberglass with foil skim kraft (FSK) vapor barrier in thickness to match cavity depth

2.2. Gaps and voids around door and window areas and in built up wood lintels.Minimal expanding foam insulation shall be Dow Chemical Great Stuff. It is to be Tack Free in 20 minutes and with full cure in 8 hours at room temperature and 50% relative humidity. It is to be paintable and stainable.

2.3. Interior non-loadbearing walls: Unfaced Fiberglass Batts - Certainteed CertaPRO AcoustaTherm Batts in thickness to fill entire cavity.

SEALANTS

1. Mildew-Resistant Silicone Rubber Sealant: Silicone rubber-based, one part elastomeric sealant, complying with F5 TT-S-0021543, Class A; compounded specifically for mildew resistance and recommended by manufacturer for interior joints in wet areas; passing ANSI A136.1 test for mold growth.
2. Silicone Sealant: One-part nonacid-curing silicone sealant complying with ASTM C920; Type S, Grade NS, Class 25, paintable, for uses at casings, window casings and hollow metal to drywall and masonry.
3. Joints and spaces to be caulked shall be clean, dry and free of dust, loose mortar or other foreign materials. After joints have been filled, they shall be neatly tooled to eliminate air pockets or voids and to provide a smooth, neat appearing surface.
4. Non-Elastomeric Sealants and Caulking Compounds: 1-component acrylic sealant: F5-TT-S-00230, Class B, Type 11, solvent based solids 45% acrylic for uses at exterior window and door frame perimeters and flashing

DIVISION 8 - DOORS AND WINDOWS

FLUSH WOOD VENEER CLAD DOORS

1. Single swing interior doors shall be solid core premium grade red oak veneer with matching edges. Comply with requirements of ANSI/NMMA I.S. 1 and Section 1400 of ANI "Architectural Woodwork Quality Standards" except as otherwise indicated. Coordinate stain color with interior designer.

FINISH HARDWARE

1. Provide finish hardware for all doors in project. The Contractor shall verify all keying requirements with owner prior to installation. Finish to be 26d. Hardware mounting heights by the door and hardware institute "Recommended Locations for Builders Hardware". Comply with all ADA requirements for hardware.

DIVISION 9 - FINISHES

GYPSUM DRYWALL

1. Materials shall meet the following standards:

1.a. Gypsum Wallboard - ASTM C36

1.b. Nails - ASTM C380

1.c. Metal Accessories - ASA A97.1

1.d. Water Resistant Gypsum Backing Board - ASTM C1278 (paragraph 6.1)
2. Use gypsum board fasteners that are recommended by gypsum board manufacturer except as otherwise indicated.
3. Furnish and install all trim accessories, adhesives and joint treatments per manufacturer's recommendations.
4. All gypsum board to be finished to Level 4 unless noted otherwise.
5. Schedule: (basis of design)

5.1. Interior side of exterior walls: 5/8" Gold Bond XP Gypsum Board. Gypsum Board is to be installed from floor to underside of deck above.

5.2. Interior partitions, ceilings and soffits - general: 5/8" Gold Bond Gypsum Board.

5.3. Interior partitions in wet areas/toilet rooms: 5/8" Gold Bond XP Gypsum Board.

5.4. Interior partitions to receive wall tile: 5/8" Gold Bond xXP Tile Backer

5.5. Where called out to receive sound board: 5/8" Gold Bond Sound Break gypsum board. When multiple layers are indicated all joints are to be staggered.

FLOORING GENERAL

1. Patch, level and prepare all floors as recommended by flooring manufacturer for each type of flooring to be placed. Use trowelable leveling and patching compound to fill cracks, holes, and depressions in substrates. Trowelable Leveling and Patching Compounds shall be of Latex-modified, portland cement based or blended hydraulic cement based Formulation provided or approved by floor covering manufacturer for applications indicated.
2. Transitions between floor finishes: Floor finishes are to be tightly butted together (unless edge protection is specified or is required by the manufacturer.) At all transitions where finished floor height of a flooring is higher then adjacent floor finish, raise adjacent flooring with ROPPE SUBLEVELER TS-1 so finish heights are equal. Where flooring is to be tightly butted against ceramic or porcelain tile in addition to subleveler installation beneath the thinner floor material, edge protection is to be provided on tile as indicated in the finish legend.

PAINTING GENERAL

1. Paint shall be as manufactured by Sherwin Williams Paints or approved equal.

SURFACE PREPARATION FOR PAINT

1. General: Protect adjacent and underlying surfaces. Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces of finishing. Correct defects and clean surfaces capable of affecting work of this section. Seal marks that may bleed through surface finishes with compatible sealer.
2. Galvanized Steel: Remove surface contamination and oils and wash with solvent.
3. Uncoated Ferrous Metals: Remove grease, mill scale weld splatter, dirt and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; wash with solvent. Apply treatment of phosphoric acid solution, ensuring weld joints, bolts and nuts are similarly cleaned. Spot Prime paint after repairs.
4. Shop primed Ferrous Metals: Sand and scrape to remove loose primer and rust. Feather edges to make patches inconspicuous. Clean with solvent. Prime bare steel surfaces.
5. Other existing Surfaces: Remove loose, flaking, powdery, and peeling paints. Light sand painted surfaces. Fill holes, cracks, depressions and other imperfections with compatible patching compound; sand flush with surface. Remove oil, grease, and wax by scraping; solvent wash and thoroughly rinse. Remove rust by wire brushing to expose base metal.

PAINTING SCHEDULE

1. Paint all new interior gypsum board walls:

1.1. 1 ct. PrepRite 200 Latex Primer and

1.2. 2 cts. ProMar 200 Int. Latex Eg-Shel
2. Paint all new and existing interior gypsum board walls in wet areas (Toilet and Janitor Rooms):

2.1. 1 ct. PrepRite 200 Latex Primer and

2.2. 2 cts. Waterbased Catalyzed Epoxy
3. Interior gypsum board ceilings and soffits (unless noted otherwise):

3.1. 1 ct. PrepRite 200 Latex Primer

3.2. 2 cts. ProMar 200 Int. Latex Flat
4. Interior and Exterior Ferrous metal (metal frames, exposed steel structure, misc. metal):

4.1. Touch up factory prime coat with compatible Metal Primer or

4.2. 1 ct. Sprayed All Surface Enamel oil Primer

4.3. 2 cts. Sprayed Promar 200 Int. Alkyd Eg-Shel Enamel

DIVISION 10 - SPECIALTIES

FIRE EXTINGUISHER

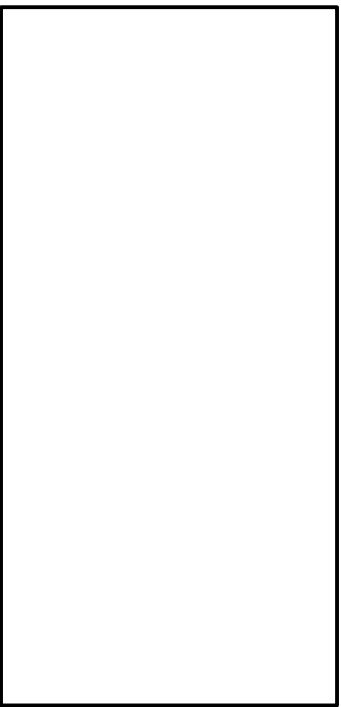
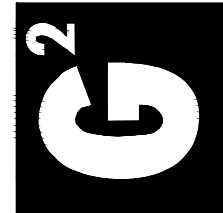
1. Provide fire extinguishers as indicated per plan. Fire extinguisher shall be Cosmic BE (2A,10B,C) by J.L. Industries or approved equal. Cabinets to be Ambassador by J.L. Industries or approved equal, Not Fire-Rated, Tub - 10 1/2 x 24 x 5 1/2 inches. Trim Material - Steel, white epoxy primer Finish, Trim Style Semi recessed 3" rolled edge. Door Style - Vertical Duo Panel with pull handle and Saf-T-Lok. Door Glazing - Clear Safety Glass, with Die Cut Letters - Vertical Red Reverse.

DIVISION 11 - EQUIPMENT

COORDINATE EQUIPMENT INSTALLATION WITH OWNER AND OWNER'S EQUIPMENT SUPPLIER.



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SOUTHSIDE
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Snappy
Clean
LAUNDRY LLC

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REV#	DATE	DESCRIPTION
Issue Date:		01-11-24
Project #:		23033

SPECIFICATIONS

A1

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



WALL TYPE NOTES

1. FURR-OUT AROUND THE STRUCTURAL, COLUMNING AND MECHANICAL CHASES AS REQUIRED. MINIMIZE DEPTH OF FURRING.
2. PROVIDE SOLID BLOCKING FOR DOORS, WINDOWS, TOILET PARTITION, ACCESSORIES, HANDRAILS, LAVATORY BRACES, CASEWORK, SHELVING ETC. AS REQUIRED BY MANUFACTURER AND ALL WORK DONE BY CARPENTRY AND MILLWORK TRADES. ALL WOOD REQUIRED BY BUILDING CODES SHALL MEET ALL REQUIREMENTS TO THE CODE OF UNDERWRITERS LABORATORIES, INC. VERIFY THE DEPTH OF MALLS PRIOR TO INSTALLING RECESSED FIXTURES.
3. ALL EXPOSED EDGES AND / OR CORNER ON ALL GYPSUM WALL BOARD CONSTRUCTION SHALL HAVE A METAL CORNER TRIM, TAPED AND SPACKLED.
4. ALL EXISTING TO REMAIN AND NEW GYPSUM BOARD PARTITIONS IN AREA OF WORK TO BE PROPERLY PREPARED, PATCHED, SPACKLED AND SANDED, ETC., TO PROVIDE A SMOOTH FINISH AND AS REQUIRED TO RECEIVE NEW FINISHES.
5. ALL OPENINGS IN GYPSUM BOARD PARTITIONS SHALL BE DOUBLE STUDDED.
6. TOP OF ALL MALLS INDICED IN MALL TYPES THIS SHEET ARE TO BE Laterally BRACED AS FOLLOWS:
 - a. 6.1. FOR MALLS INDICATED TO BE EXTEND TO UNDERSIDE OF STRUCTURAL ELEMENTS OR DECKING: PROVIDE DEEP LGS DEFLECTION TRACK AT TOP WALL, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - b. 6.2. FOR ALL OTHER MALLS:
 - a. 6.2.a. FOR MALLS ABOVE 8'-0" IN LENGTH (WITHOUT A PERPENDICULAR WALL ON EITHER SIDE) THE TOP TRACK SHALL RESIST LATERAL LOADS.
 - b. 6.2.b. FOR MALLS ABOVE 8'-0" AND UNDER 16'-0" CONTRACTOR IS TO PROVIDE 1-1/2" 16GA U-CANNEL LOCATED IN PUNCHED STUDS WITHIN 1'-0" OF TOP OF WALL AND SECURED WITH DETRICH EASY-CLIP U-SERIES AT EACH STUD. U-CANNEL TO BE 8 IN. TO RUN CONTINUOUS FULL LENGTH OF MALL. (AT CONTRACTORS OPTION STUD KICKERS AS INDICATED BELOW MAY BE USED IN LIEU OF U-CANNEL.)
 - c. 6.2.c. FOR MALLS ABOVE 16'-0" PROVIDE 45° STUD KICKERS UP TO STRUCTURE AT 4'-0" O.C. ALTERNATING DIRECTIONS.
7. IN THE FOLLOWING ROOMS PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN LIEU OF THE STANDARD GYPSUM BOARD INDICATED IN MALL TYPES BELOW: EGOT 108 AND TOILET 101.
8. AT OWNER OPTION 2X4 WOOD STUDS MAY BE USED IN LIEU OF THE 3½" METAL STUDS INDICATED IN THE MALL TYPE LEGEND.

WALL TYPE LEGEND

EXISTING WALL TO REMAIN.

 3/8" MTL. STUDS @ 16" O.C. WITH 3/8" GYPSUM BOARD INTERIOR SIDE AND 3/8" FSK BATT INSULATION. EXTEND ALL FROM FLOOR TO UNDERSIDE OF ROOF JOISTS.

 3/8" MTL. STUDS @ 16" O.C. WITH 3/8" GYPSUM BOARD EACH SIDE AND 3/8" UNFACED BATT INSULATION. EXTEND ALL FROM FLOOR TO UNDERSIDE OF ROOF DECK. ACOUSTICALLY SEAL AT PERIMETERS AND TROUGH PENETRATIONS.

TOILET ROOM TYPICAL NOTES

1. PROVIDE WATER CLOSET WITH SEAT HEIGHT BETWEEN 17 AND 19 INCHES MEASURED TO TOP OF THE SEAT. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. CENTERLINE OF WATER CLOSET SHALL BE 16" TO 18" FROM THE SIDE WALL.
2. PROVIDE LAVATORY WITH RIM MOUNTED AT 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. BOTTOM OF APRON TO BE 24 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OF ABRASIVE SURFACES UNDER LAVATORY. THE CENTERLINE OF THE LAVATORY SHALL BE A MINIMUM OF 15" FROM THE SIDE WALL.
3. PROVIDE 20"x40" FRAMELESS MIRROR. MIRROR TO BE 40" MAXIMUM TO REFLECTIVE SURFACE. SECURE TO WALL WITH MIRROR MASTIC
4. TOILET PAPER DISPENSER TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED; DISPENSER TO BE 7 INCHES FROM RIM OF TOILET TO CENTER OF TOILET PAPER ROLL (N PLAN HORIZONTAL). TOILET PAPER TO BE 19" MINIMUM ABOVE FINISH FLOOR.
5. PROVIDE BOBBICK B-5806 GRAB BARS AS FOLLOWS; SIDE HORIZONTAL GRAB BAR TO BE 42" MIN LONG, 12" FROM BACK WALL, 20" FROM 20"x40" AFF; SEAT GRAB BAR TO BE 18" MIN LONG, 40" FROM BACK WALL, AND 40" AFF TO BOTTOM OF BACK. REAR HORIZONTAL GRAB BAR TO BE 36" MIN LONG, 6" MAX FROM BACK WALL, AND 33"-36" AFF; ALL GRAB BARS TO HAVE 1/2" DIA AND 1/2" OFFSET FROM WALL.
6. SOAP AND PAPER TOWEL DISPENSERS TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED. DISPENSERS TO BE INSTALLED AT 34" AFF TO SOAP SPOUT OR TOWEL DISPENSING LOCATION.
7. PROVIDE ON EXTERIOR LATCH SIDE OF DOOR MATTE FINISH TOILET ROOM SIGN 60" AFF, WITH BRAILLE AND WITH RAISED CONTRASTING LETTERS 3/4" TO 2" TALL WITHOUT SERIFS.

FINISH GENERAL NOTES

1. FINISH MATERIALS LISTED HERE-IN ARE TO ESTABLISH THE SIGNIFICANT QUALITIES RELATED TO TYPE, FUNCTION, DIMENSION, PRICE, PHYSICAL PROPERTIES, APPEARANCE, AND OTHER CHARACTERISTICS OF THE PRODUCT. FINAL SELECTION OF ALL FINISHES ARE TO BE CONFIRMED BY OWNER OR OWNER'S INTERIOR DESIGNER.
2. PAINT FINISHES INDICATED TO BE ACENT COLOR ARE TO BE VERIFIED BY OWNER IN FIELD PRIOR TO BEING APPLIED TO WALLS OR SOFFITS.
3. WHERE NEW FLOOR FINISHES ARE INDICATED ON THE FINISH SCHEDULE, ANY EXISTING FLOORING IS TO BE REMOVED AND DISCARDED. SUBFLOOR IS TO BE PREPARED AS REQUIRED TO RECEIVE NEW FINISH INDICATED.
4. PATCH, LEVEL AND PREPARE ALL FLOORS AS RECOMMENDED BY FLOORING MANUFACTURER FOR EACH TYPE OF FLOORING TO BE PLACED. USE TROWABLE LEVELING AND PATCHING COMPOUND TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES. TROWABLE LEVELING AND PATCHING COMPOUNDS SHALL BE OF LATEX-MODIFIED, PORTLAND CEMENT BASED OR BLENDED HYDRAULIC GEM BASED FORMULATION PROVIDED OR APPROVED BY FLOOR COVERING MANUFACTURER FOR APPLICATION INDICATED.
5. INTERIOR FINISHES MUST CONFORM TO THE GOVERNING CODE FOR "CLASS III" MAX. 25 FOR SMOKE DENSITY CLASSIFICATION. MAX. FLAME SPREAD OF 200
6. COLOR OF ALL LIGHT SWITCHES, RECEPTACLES AND PLATE COVERS TO MATCH EXISTING IN TENANT SUITE.

FINISH SCHEDULE

RM. # 205#	ROOM NAME	FLOOR	BASE	WALL			
				NORTH	EAST	SOUTH	WEST
100	LAUNDROMAT	LVT	RB4	P1	P2	P1	P1
101	GAME LOUNGE	LVT	RB4	P1	P2	P1	P1
102	OFFICE	GFT	RB4	P1	P1	P1	P1
103	EXIST TOILET	LVT	RB4	P5	P5	P5	P5
104	HALL	LVT	RB4	P1	P1	P1	P1
105	SERVICE	CGNG	RB4	P1	P1	P1	P1
106	EQUIPMENT	CGNG	RB4	P1	P1	P1	FRP
107	ADA TOILET2	LVT	RB4	P5	P5	P5	P5
108	VENDING	LVT	RB4	-	P2	P1	P1
109	CLOSET	LVT	RB4	P1	P1	P1	P1
110	MECH	CGNG	RB4	P1	P1	P1	P1

FINISH LEGEND

FLOORING

CPT CARPET TILE

LVT LUXURY VINYL TILE

CONC CONCRETE

BASE

RB4 ROPPE 100% RUBBER 4" COVE BASE, CONTINUOUS COIL, COLOR: P110
BROWN

WALL FINISHES

P1 PAINT - FIELD COLOR

P2 PAINT - ACCENT COLOR

P3 PAINT - HOLLOW METAL FRAMES

P4 PAINT - EXPOSED WOOD JOISTS, BEAMS, CONDUITS, DUCTWORK ETC

P5 PAINT - TWO PART EPOXY

FRP PROVIDE FIBERGLASS REINFORCED PANEL FROM TOP OF WALL BASE TO 48"
ABOVE TOP OF WALL BASE. PAINT WALL ABOVE PANEL P5.

BASIS OF DESIGN – EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Width/Length	Depth	Height	Manufacturer	Model Number
			ROUNDED	UP TO	NEAREST 1/4"		
01	5	50# STACK DRYER	34.5"	54.75"+2"	79.25"	DEXTER	T-50X2
02	7	30# STACK DRAYER	31.5"	49.5"+2"	76.25"	DEXTER	T-30X2
03	6	40# WASHER	30"	36"+3.5"	49.75"	DEXTER	T-600
04	8	30# WASHER	30"	27.5"+3.5"	48.25"	DEXTER	T-400
05	4	60# WASHER	34.5"	39"+3.5"	55.5"	DEXTER	T-900
06	2	80# WASHER	34.5"	45.5"+3.5"	58"	DEXTER	T-1200
07	2	CHANGE MACHINE	29.25"	18"	34"	STANDARD CHANGE	MC640RL-DA
08	1	SOAP VENDOR	30.75"	11.5"	45.25"	VEND-RITE	240N
09	10	TABLE	60"	24"	28.5"-42"	SEVILLE CLASSICS	20191B
10	2	VENDING MACHINE	40"	33.5"	72"		

FLOOR PLAN NOTES

- (F01) NEW 3'-0" X T-0" WOOD DOOR AND KNOCK DOWN METAL FRAME. PROVIDE ADA LEVER LOCKSET. COORDINATE LOCKSET FUNCTION WITH OWNER.
- (F02) NEW 4'-0" X T-0" WOOD DOOR AND KNOCK DOWN METAL FRAME. PROVIDE ADA LEVER LOCKSET. COORDINATE LOCKSET FUNCTION WITH OWNER.
- (F03) PROVIDE FIRE EXTINGUISHER AND CABINET PER SPECIFICATIONS.
- (F04) ALL FIXTURES AND ACCESSORIES IN TOILET ROOM ARE TO BE PROVIDED AS REQUIRED TO CONFORM TO THE REQUIREMENTS OF TYPICAL TOILET ROOM NOTES THIS SHEET.
- (F05) PROVIDE BOTTLED WATER DISPENSOR



02/05/2024

**GUY GRONBERG
ARCHITECTS, P.C.**



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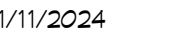
REV#	DATE	DESCRIPTION
1	2-5-24	CITY COMMENTS

Issue Date: 01-11-24

Project #: 23035

FLOOR PLAN

A3



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8'-0" ELEVATION OF CEILING ABOVE FINISHED FLOOR.

	EXISTING TO REMAIN EXPOSED T' GRID CEILING AND ACOUSTICAL CEILING TILES. REMOVE AND REPLACE ANY DAMAGED OR STAINED CEILING TILES WITH NEW TO MATCH EXISTING.
--	--

24"x48" FISSURED TEGULAR TILE ON 15/16" EXPOSED T
GRID

PAINT EXPOSED WOOD JOISTS, BEAMS, CONDUITS,
DUCTWORK ETC.

SOFFIT OR CEILING OF ONE LAYER OF 5/8" GYP. BD. ON
EXPOSED SIDES METAL OR WOOD STUD FRAMING. FINISH
AND PAINT GYPSUM BOARD

EXPOSED TO STRUCTURE ABOVE - NO WORK

CEILING PLAN NOTES

001 WRAP AND FINISH GYPSUM BOARD ON BOTTOM OF FRAMING FROM LAUNDROMAT SIDE, ACROSS BOTTOM AND EXTEND UP 6" MINIMUM ON SERVICE SIDE. BOTTOM OF GYPSUM BOARD TO BE 1/2" ABOVE TOP OF DRYER UNITS - ELEVATION VARIES.

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LAUNDRY LLC

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Issue Date: 01-11-24

Project #: 23033

CEILING PLAN

A4

1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
3. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR REQUIREMENTS FOR SUPPORTING PIPING, EQUIPMENT, ETC. FROM THE STRUCTURE. PROVIDE ADDITIONAL STEEL AS REQUIRED TO PROPERLY SUPPORT SYSTEMS FROM THE STRUCTURE.
4. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF UNDERFLOOR PIPING. PATCH FLOOR TO MATCH EXISTING.
5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
6. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
7. CONTRACTOR TO TEST WATER PRESSURE ON SITE AND PROVIDE PRESSURE REDUCING VALVE ON WATER SERVICE IF PRESSURE IS OVER 80 PSI.

	SOIL AND WASTE PIPING BELOW FLOOR/GRADE
	SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
	SANITARY VENT PIPING ABOVE GRADE
	SANITARY VENT PIPING BELOW GRADE
	DOMESTIC COLD WATER PIPING
	DOMESTIC COLD WATER PIPING BELOW FLOOR/GRADE
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER PIPING BELOW FLOOR/GRADE
	DOMESTIC HOT WATER RECIRCULATION PIPING
	GAS PIPING
	PIPING TURNING DOWN
	PIPING TURNING UP
	TEE TOP CONNECTION
	UNION
	BACKFLOW PREVENTER
	FLOOR DRAIN
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	VALVE
	BALANCING VALVE
	SOLENOID VALVE
	PRESSURE REGULATOR
	CHECK VALVE
	CONNECT TO EXISTING
	INVERT ELEVATION OF PIPE
	DIAGRAM MARKS ON PLUMBING RISER

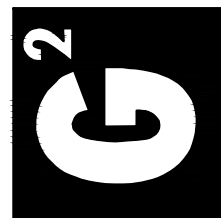


- ① CONNECT SANITARY LINE TO EXISTING SANITARY LINE. PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF EXISTING SANITARY LINE IN FIELD PRIOR TO INSTALLATION OF NEW PIPING. VERIFY CONDITION OF EXISTING PIPE AND PROVIDE ALTERNATE PRICE FOR REPAIR.
- ② EXISTING PLUMBING FIXTURE TO REMAIN.
- ③ LOCATION OF 4" VTR. MAINTAIN MIN. 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKES. INSTALLED MINIMUM 24" FROM ROOF EDGE.
- ④ WASHING MACHINES DRAIN TO DISCHARGE INTO TRENCH DRAIN PER MANUFACTURER'S REQUIREMENT.
- ⑤ ROUTE WATER HEATER T & P DRAIN PIPE AND FLUE CONDENSATE DRAIN PIPE DOWN AND DISCHARGE TO FLOOR DRAIN WITH AIR GAP.
- ⑥ 3"Ø CPVC FLUE & COMBUSTION AIR INTAKE THROUGH WALL TO MANUFACTURER'S VENT TERMINATION AS REQUIRED. OFFSET AS REQUIRED TO MAINTAIN 10" CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHER TIGHT.
- ⑦ CUT EXISTING ROOF AND FLASH INTO ROOF AS REQUIRED. ALL ROOFING WORK SHALL BE PERFORMED BY BUILDING OWNER'S ROOFING CONTRACTOR (AT THIS CONTRACTOR'S EXPENSE) TO MAINTAIN EXISTING ROOF WARRANTY. VERIFY APPROVED ROOFING CONTRACTOR WITH BUILDING OWNER PRIOR TO PERFORMING WORK.
- ⑧ PROVIDE TRAP SEAL ON FLOOR DRAINS SUSCEPTIBLE TO DRYING OUT.

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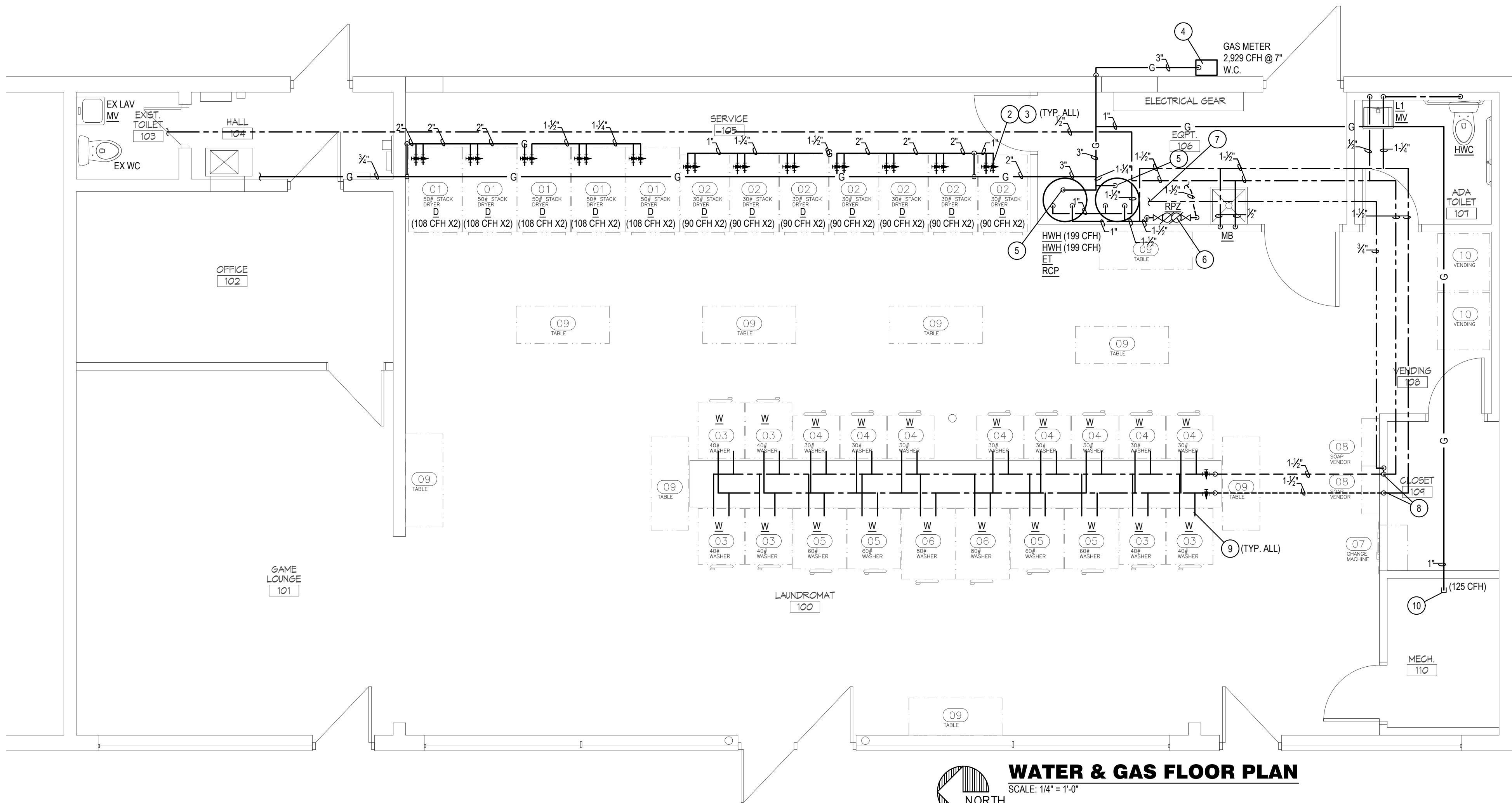
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REV/# DATE DESCRIPTION

Issue Date: 01-11-24
Project #: 23033

WATER & GAS
FLOOR PLAN

P2



PLUMBING PLAN NOTES:

- CONNECT 1-1/2" CW TO EXISTING 1-1/2" DOMESTIC CW BELOW FLOOR AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- CONNECT 3/4" GAS TO EACH DRYER AS REQUIRED AND AS DETAILED.
- ALL APPLIANCE CONNECTIONS SHALL BE MADE WITH UL LISTED FLEXIBLE APPLIANCE CONNECTOR. FLEX CONNECTORS SHALL BE PROVIDED BY TENANT. CONTRACTOR SHALL PROVIDE SAFETY LOCK AND CHAIN AT ALL GAS APPLIANCES ON WHEELS. PROVIDE PIPING REDUCERS AND INCREASERS AS REQUIRED TO MATE HARD PIPING WITH FLEX CONNECTORS.
- COORDINATE WITH GAS COMPANY FOR EXISTING METER TO HAVE CAPACITY FOR 2,929 CFH @ 7" W.C.
- CONNECT 1" GAS PIPE TO WATER HEATER AS REQUIRED AND AS DETAILED.
- PROVIDE 1-1/2" RPZ BACKFLOW PREVENTER AND INSTALL 24" A.F.F. & 6" FROM WALL. ROUTE DRAIN FROM RPZ BFP TO FLOOR DRAIN WITH AN AIR GAP.
- CONNECT HOT WATER RECIRC. PIPING BACK TO WATER HEATER AS REQUIRED. REFER TO RISER DIAGRAM FOR DETAILS.
- 1-1/2" HOT AND COLD WATER ROUTED DOWN TO UNDER FLOOR WITH SHUT OFF VALVES.
- CONNECT 3/4" CW & HW TO WASHERS AS REQUIRED BY MANUFACTURER. REFER TO DOMESTIC WATER RISER DIAGRAM FOR MORE INFORMATION.
- CAP GAS PIPE FOR FUTURE CONNECTION BY TENANT AS REQUIRED.

DRAWN BY: MA/DS
BC PROJECT #: 23888
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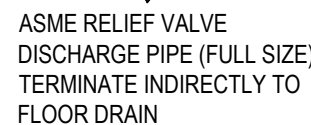


PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE SIZE. IF PEX PIPING IS USED, INCREASE PEX PIPING ONE SIZE ABOVE LISTED SIZES AS REQUIRED TO EQUAL OR EXCEED COPPER PIPE INSIDE DIAMETER.

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.

PIPE HANGER SCHEDULE		
PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER
ABS (All sizes)	4'	3/8"
PVC (All Sizes)	4'	3/8"
CPVC, 1 inch and smaller	3'	1/2"
CPVC, 1-1/4 inches and larger	4'	1/2"
Cast Iron (All Sizes)	5'	5/8"
Cast Iron (All Sizes) with 10 foot length of pipe	10'	5/8"
Copper Tube, 1-1/4 inches and smaller	6'	1/2"
Copper Tube, 1-1/2 inches and larger	10'	1/2"
Steel, 3 inches and smaller	12'	1/2"
Steel, 4 inches and larger	12'	5/8"
Pex, 1" and below without support channel	32"	3/8"
Pex, 1-1/4" and above without support channel	48"	3/8"
Pex 3/4" and below with support channel	6'	3/8"
Pex 1" and above with support channel	8'	3/8"

MB	MOP BASIN: F1T, #MSB-2424, MOLDED STONE MOP BASIN, 2" DRAIN, 24" X24" BASIN, VINYL BUMPER GUARD, STERN WILLIAMS #1-10-VB FAUCET, SPRING CHECKS, VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE & PAI LOCK, WALL BRACKET WITH 30" HOSE.
FD	FLOOR DRAIN: SIOUX CHEF, #842, PVC FLOOR DRAIN WITH ADJUSTABLE TOP AND CAST BRASS STRAINER.
TD	TRENCH DRAIN: ZURN #2-886-CG-GL, HEAVY DUTY, 75% PRE-SLOPED FIBERGLASS TRENCH DRAIN, 10 FOOT LENGTH, 12" WIDE.
MV1	MIXING VALVE: WATTS, #LFMMV THERMOSTATIC CONTROLLED MIXING VALVE. LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), SOLID WAX HYDRAULIC PRINCIPLE THERMOSTAT, INTEGRAL FILTER WASHERS AND CHECK VALVES ON HOT AND COLD INLETS, (SET TO 110°F) ASSE #1101 #1069 #1070
HW1H	HOT WATER HEATER: AO SMITH, #BTH-199, GAS FIRED, CONDENSING TYPE, 100 GALLON STORAGE, 199 MBTUH INPUT, 234 GPH RECOVERY AT 100 DEGREES F RISE, MAIN & PILOT AUTOMATIC GAS VALVES, 120 VOLT, TEMPERATURE AND PRESSURE RELIEF VALVE. SET TEMPERATURE TO 130°F.
ET	HOT WATER EXPANSION TANK: AMTROL, #ST-12, 4.4 GALLON EXPANSION TANK WITH DIAPHRAGM.
RCP	HOT WATER RE-CIRCULATING PUMP: BELL & GOSSETT, #SERIES NBF-22, BRONZE FITTINGS, 5 GPM @ 10 FT. HEAD, 1 1/2 HP, 120 VOLT, 120 DEG. F TEMP., WITH HONEYWELL, 16000C AQUASTAT AND T-1 THERM KIT, 3/4" PIPE, 120"-125°F.
WHA	WATER HAMMER ARRESTOR: JR SMITH HYDROTROL #5000 LEAD-FREE WATER HAMMER ARRESTOR, SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
W	WASHER: PROVIDED BY OWNER, INSTALLED BY GC. PROVIDE VALVE, HOT WATER, COLD WATER AND WASTE PIPE FOR COMPLETE INSTALLATION.
D	DRYER: PROVIDED BY OWNER, INSTALLED BY GC. PROVIDE VALVE & PIPING FOR COMPLETE INSTALLATION.
OWCQ	VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL CARPETED FLOOR: JR SMITH #4020-Y, OR EQUAL UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL WALL: JR SMITH #4472, OR EQUAL 24" ABOVE THE FLOOR.
HWC	WATER CLOSET (HANDICAPPED): TOTO, #CT7509LUX, VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, 17-1/2" HIGH ELONGATED BOWL, SAPHIRE JET ACTION, #MT1 TLN328CP FLUSH VALVE, 1.28 GAL/FLUSH, #SC534 WHITE OPEN FRONT ELONGATED SEAT WITH CHECK HINGE HANDLE ON SIDE OF FIXTURE.
L1	HANDICAP LAVATORY, WALL HUNG: TOTO #LT307, 20" X18", VITREOUS CHINA FRONT OVERFLOW, DELTA #501 FAUCET WITH SINGLE METAL LEVER FAUCET OFFSET GRID ELBOW DRAIN AND 1-1/4" TALL PIERCE, CHROME PLATED CAST BRASS DRAIN WITH CLOSURE (MOUNTED PARALLEL WITH WALL), CHROME PLATED LOOSE KEY ANGLE STOPS AND RISERS, FLOOR MOUNTED CONCEALED ARM LAVATORY SINK, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.



SCALE: NONE

DRAWN BY:	MA/DS
BC PROJECT #:	23888
MISSOURI	PE COA #2009003629

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1. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
2. THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE MECHANICAL SYSTEMS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DIFFUSERS.
4. INSTALL ALL DUCT, PIPE, ETC. AS HIGH AS POSSIBLE.
5. DUCT SIZES SHOWN ARE ACTUAL SHEET METAL SIZES AND INCLUDE AN ALLOWANCE FOR DUCT LINER WHERE APPLICABLE.
6. PROVIDE FLEXIBLE CONNECTION BETWEEN DUCTWORK AND ROOFTOP UNITS, EXHAUST FANS, AND OTHER MOTORIZED EQUIPMENT.
7. NO DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
8. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
9. ALL MECHANICAL SYSTEMS SHALL BE BALANCED BY A CERTIFIED BALANCING CONTRACTOR. REFER TO SPECIFICATIONS FOR DETAILS.

	NEW SUPPLY DIFFUSER
	NEW RETURN AIR GRILLE
	EXHAUST GRILLE/FAN
	REMOTE TEMPERATURE SENSOR
	THERMOSTAT, MOUNTED AT 48" AFF
	DUCT-MOUNTED SMOKE DETECTOR
	NEW DUCTWORK
32"x14"	SIZE OF RECTANGULAR DUCT
6"Ø	SIZE OF ROUND DUCT
	FLEXIBLE DUCTWORK
	FLEXIBLE CONNECTION TO FAN
	FLOOR PLAN NOTE DESIGNATION
S.A.	SUPPLY AIR
R.A.	RETURN AIR
EXH.	EXHAUST AIR
	TRANSITION IN DUCT SIZE
	ELBOW WITH TURNING VANES
	MANUAL VOLUME DAMPER
	MANUAL VOLUME DAMPER
	SUPPLY AIR DUCT UP/DOWN
	RETURN AIR DUCT UP/DOWN
	EXHAUST AIR DUCT UP/DOWN
	CHANGE IN ELEVATION UP (UP) DOWN (DN) IN DIRECTION OF FLOW
RTU-1	SCHEDULED MECHANICAL EQUIPMENT
	EXIST'G DUCT TO REMAIN
	EXIST'G DUCT TO BE REMOVED
	EXISTING FLEXIBLE DUCTWORK
32"x14"E	SIZE OF EXISTING DUCT
	EXISTING SUPPLY DIFFUSER



- 1 EXISTING SUPPLY DUCTWORK TO REMAIN. FIELD VERIFY ALL EXISTING CONDITION PRIOR TO BEGINNING OF NEW WORK.
- 2 CONNECT SUPPLY DUCTWORK TO EXISTING MAIN SUPPLY DUCTWORK.
- 3 CONNECT FULL SIZE RETURN DUCTWORK TO EXISTING AHJ AS REQUIRED. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO INSTALLATION OF DUCT WORK. TURN DUCTWORK UP TO 4'-0" AFF.
- 4 EXISTING HVAC EQUIPMENT TO REMAIN AS IS. VERIFY PROPER WORKING ORDER. COORDINATE WITH OWNER TO PROVIDE PREVENTIVE MAINTENANCE.
- 5 BALANCE OUTDOOR AIR TO VALUE LISTED IN OUTDOOR AIR CALCULATION ON SHEET M2.
- 6 RELOCATE & REINSTALL THERMOSTAT AT LOCATION SHOWN. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR. PROVIDE NEW THERMOSTAT IF NONE ARE PRESENT.
- 7 INSTALL BOTTOM OF RETURN GRILLE AT 6'-0" AFF AS REQUIRED.
- 8 INSTALL TOP OF LOUVER AT 7'-0"A.F.F., COORDINATE MOUNTING WITH ARCH.
- 9 CONNECT DRYER DUCT AS REQUIRED BY THE MANUFACTURER. ROUTE DRYER DUCT THROUGH SIDEWALL AND TURN DOWN 90° AS REQUIRED. SEAL PENETRATION WEATHER TIGHT. MAINTAIN 10'-0" CLEARANCE FROM ALL OUTDOOR AIR INTAKES.
- 10 PROVIDE WALL VENT CAP WITH BACKDRAFT DAMPER FOR EXHAUST FAN. SEAL PENETRATIONS WEATHERTIGHT.
- 11 SUPPORT FAN FROM STRUCTURE AS REQUIRED BY THE MANUFACTURER.
- 12 PROVIDE WALL VENT CAP FOR OUTDOOR INTAKE WITH BIRD SCREEN. SEAL PENETRATIONS WEATHERTIGHT.
- 13 CONNECT 12"Ø OUTDOOR AIR DUCT WITH BALANCING DAMPER TO RETURN AIR DUCT. REFER TO OUTDOOR AIR CALCULATIONS FOR MINIMUM OUTDOOR AIR VOLUME.
- 14 LOCATION OF DUCT MOUNTED SMOKE DETECTOR. PROVIDE REMOTE ENUNCIATOR AUDIO/VISUAL. VERIFY LOCATION WITH FIRE MARSHAL PRIOR TO INSTALLATION. REFER TO SPEC SHEET MPO FOR ADDITIONAL INFORMATION.
- 15 SUPPORT UNIT FROM STRUCTURE AS REQUIRED BY THE MANUFACTURER.
- 16 EXISTING SUPPLY GRILLE TO REMAIN AS IS. CLEAN AND MAKE LIKE NEW. BALANCE TO AIRFLOW LISTED.
- 17 INSTALL NEW SUPPLY GRILLE ON EXISTING DUCTWORK AS REQUIRED. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF GRILLE.
- 18 COORDINATE WITH G.C. TO UNDERCUT DOOR FOR PROPER TRANSFER AIR PATH.
- 19 INSTALL BOTTOM OF RETURN GRILLE AT 7'-6" AFF AS REQUIRED.

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Snappy
Clean
LANDROMAT

REV#	DATE	DESCRIPTION

Issue Date:	01-11-24
Project #:	23033

ELECTRICAL
SPECIFICATIONS

EO

ELECTRICAL SPECIFICATIONS

1. GENERAL PROVISIONS:
- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS OUTLINED.
- B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRIC CODE (NEC), AND ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
- D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
- E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, CONDUIT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.
- F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED.
- G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
- H. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE NECESSARY FOR CONCEALED ELECTRICAL COMPONENTS.
- I. CONTRACTOR SHALL PROMPTLY CALL ENGINEERS ATTENTION TO ANY APPARENT CONTRADICTIONS, AMBIGUITIES, ERRORS, DISCREPANCIES, OR OMISSIONS IN THE PLANS OR SPECIFICATIONS.
2. OPERATION AND MAINTENANCE MANUALS:
- A. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- B. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.
- C. ALL OPERATIONS LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE COLLATED AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC. CONTRACTORS, ETC. DOCUMENTS SHALL BE COMPILED AND BOUND IN DIGITAL FILE OR 3 RING BINDER.
3. MANUFACTURERS:
- A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
4. TESTING, AND BALANCING:
- A. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY, SHORTS, AND GROUNDS BEFORE CONNECTING TO THE PROPER PHASE AS DESIGNED TO BALANCE THE LOADING BETWEEN PHASES.
- B. POWER AND LIGHTING PANELS SHALL BE PROPERLY PHASED TO DISTRIBUTE THE LOAD AND SHALL BE CONNECTED AND ADJUSTED TO OPERATE AS SPECIFIED.
- C. ALL MOTORS AND SIMILAR EQUIPMENT SHALL BE CHECKED FOR PROPER PHASE ROTATION AND OPERATION.
5. RACEWAYS:
- A. CONDUIT INSIDE THE BUILDING SHALL BE METALLIC TUBING (EMT), BEARING THE UL LABEL, WITH COMPRESSION TYPE FITTINGS OR SCREW SET FITTINGS.
- B. CONDUIT EXPOSED TO THE WEATHER, INSTALLED UNDERGROUND, IN CONCRETE, OR USED FOR SERVICE ENTRANCE SHALL BE STANDARD RIGID CONDUIT (GALVANIZED) WITH THREADED FITTINGS.
- C. UNDERGROUND CONDUIT MAY BE POLY(VINYL CHLORIDE WITH A DEFLECTION TEMPERATURE, UNDER LOAD AT 264 PSI, OF 78 DEGREES C, AND A TENSILE STRENGTH OF 5,200 PSI. JOINTS SHALL BE FLUSH SOLVENT WELDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. CONDUIT SHALL BE EQUAL TO CARLON POWER AND COMMUNICATIONS DUCT TYPE 99 (DIRECT BURIAL). CONDUIT AND FITTINGS SHALL BE PRODUCED BY THE SAME MANUFACTURER.
- D. FLEXIBLE METAL CONDUIT SHALL ONLY BE USED FOR CONNECTIONS TO MOTORS, TRANSFORMERS, AND LIGHT FIXTURES. MAXIMUM LENGTH SHALL BE 6'-0".
6. CONDUCTORS:
- A. WIRES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL SPLICES SHALL BE MADE IN JUNCTION, PULL, OR OUTLET BOXES. ALL WIRE SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR OTHER PROTECTIVE COVER SANCTIONED BY CODES.
- B. CONDUCTORS FOR LIGHTING AND POWER SHALL BE COPPER, MINIMUM NO. 12 A.W.G., 600 VOLT.
- C. NO. 10 GAUGE AND SMALLER CONDUCTORS SHALL BE TYPE THHN (WET LOCATIONS) OR THHN (DRY LOCATIONS), SOLID CONDUCTOR, UNLESS OTHERWISE INDICATED.
- D. NO. 8 GAUGE AND LARGER CONDUCTORS SHALL BE TYPE THHN (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED, UNLESS OTHERWISE INDICATED.
- E. SERVICE ENTRANCE AND PANEL FEEDER CONDUCTORS, NO. 3 GAUGE AND LARGER SHALL BE TYPE XHHW-2 (WET LOCATIONS) OR THHN (DRY LOCATIONS), STRANDED COPPER, UNLESS OTHERWISE INDICATED.
- F. ALUMINUM SERVICE WIRE MAY BE USED FOR SERVICE ENTRANCE CONDUCTORS AND/OR PANEL FEEDERS ONLY. ALL OTHER WIRING SHALL BE COPPER CONDUCTORS AS HEREBEFORE SPECIFIED.
- G. ALUMINUM CONDUCTORS SHALL BE TYPE "XHHW-2" ALCAN, "STABILGY" TYPE ALLOY CONDUCTORS UTILIZING "AA-8039" ALUMINUM ALLOY. CONDUCTORS SHALL BE UL LISTED.
- H. ALL ALUMINUM CONDUCTORS SHALL BE TERMINATED IN CONNECTIONS OR LUGS WHICH ARE DUAL RATED (AL/CU OR AL/AL) AND ARE LISTED BY UL FOR USE WITH ALUMINUM OR COPPER CONDUCTORS AND SHALL BE SIZED TO ACCEPT ALUMINUM CONDUCTORS OF THE AMPACITY SPECIFIED.
7. MC CABLE:
- A. MC CABLE SHALL CONSIST OF INTERLOCK ARMORED CABLE MADE OF THREE OR FOUR TYPE THHN SOLID (8 AWG AND LARGER MAY BE STRANDED) COPPER CONDUCTORS RATED 90°C FOR DRY LOCATIONS, WITH NYLON OR EQUIVALENT UL LISTED JACKET, PER UL STANDARD 83. THE THREE CONDUCTORS SHALL BE TWISTED TOGETHER WITH THE COPPER GROUNDING CONDUCTOR, SUITABLE FILLERS, AND WRAPPED IN BINDER TAPE. THE ASSEMBLY SHALL BE ARMORED WITH SPIRALLY WRAPPED INTERLOCKED ARMOR OF ALUMINUM OR GALVANIZED STEEL.
- B. CABLES SHALL BE TESTED IN ACCORDANCE WITH UL STANDARD 1569 FOR TYPE MC CABLE AND RATED AT 800 VOLTS, 90 DEG. C FOR DRY LOCATIONS AND 75 DEG. C FOR WET LOCATIONS.
8. WIRING DEVICES:
- A. WALL SWITCHES SHALL BE SPECIFICATION GRADE, QUAT TYPE, FLUSH TOGGLE SWITCH, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES.
- 1) SINGLE POLE: HUBBELL #CS1212-X, OR EQUAL.
- 2) THREE WAY: HUBBELL #CS1223-X, OR EQUAL.
- 3) AS SPECIFIED ON PLANS.
- B. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX, GROUNDING, THREE-WIRE TYPE, RATED FOR 20 AMPS, WITH THERMOPLASTIC COVER PLATES, HUBBELL #CR3333-X, OR EQUAL.
- C. GROUND FAULT INTERRUPTER RECEPTACLES (GFI) SHALL BE HUBBELL #GF20-XL. DEVICE COVER PLATES SHALL BE AS HEREBEFORE SPECIFIED.
- D. ISOLATED GROUND RECEPTACLES (IG) SHALL BE HUBBELL #CR35326, ORANGE COLOR. DEVICE COVER PLATES SHALL BE AS HEREBEFORE SPECIFIED.
- E. RECEPTACLES OUTSIDE BUILDING AND WHERE NOTED AS WEATHERPROOF, SHALL BE LISTED "WEATHER-RESISTANT" HUBBELL #GF7202-X, OR EQUAL, AND SHALL BE INSTALLED IN A WEATHERPROOF ENCLOSURE WHICH SHALL BE INTERMATIC #WP1100MD OR #WP1010MD DECATAL METAL WEATHERPROOF RECEPTACLE COVER. COVER SHALL BE WEATHER PROOF RATED WHILE IN USE.
- F. VERIFY DEVICES AND DEVICE COVERPLATES COLOR AND STYLE WITH ARCHITECT.
9. BOXES:
- A. HOT DIPPED GALVANIZED STEEL BOXES. PROVIDE TYPE TO SUIT CONDITIONS FOR INSTALLATION.
- B. ALL BOXES SHALL BE FLUSH MOUNTED, UNLESS INDICATED OTHERWISE.

ELECTRICAL SPECIFICATIONS (CONTINUED)

11. PANELBOARDS:
- A. FURNISH AND INSTALL CIRCUIT BREAKER PANELBOARDS AS SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE LISTED BY UL AND SO LABELED AND SHALL BE FULLY RATED FOR THE VOLTAGE AND CURRENT CAPACITY INDICATED ON THE PANEL SCHEDULE. PANELBOARDS SHALL BE EQUAL TO SQUARE D TYPE NO OR NF WITH BOLT IN TYPE BREAKERS. PANELBOARD LUGS SHALL BE RATED AT 75°C.
- 1) CIRCUIT BREAKER INTERRUPTING CAPACITIES SHALL MEET OR EXCEED THE AVAILABLE RMS SYMMETRICAL FAULT CURRENTS INDICATED AND AS REQUIRED TO MEET OR EXCEED THE AVAILABLE FAULT CURRENT FROM LOCAL UTILITY.
- B. CIRCUIT BREAKERS SHALL MEET APPLICABLE PORTIONS OF UL STANDARD 489 AND NEMA AB-1. CIRCUIT BREAKERS SHALL BE BOLT-ON, GROUP MOUNTED, AMBIENT MAGNETIC, WITH COMMON TRIP, UL RATED TO CARRY 80% OF NAMEPLATE RATING CONTINUOUSLY IN FREE AIR AT 40° C. CIRCUIT BREAKERS SHALL BE TRIP INDICATING AND FULLY INTERCHANGEABLE WITHOUT DISTURBING ADJACENT UNITS. WIRE TERMINALS SHALL BE RATED TO DEGREE C. THE OPERATING MECHANISM SHALL BE TRIP-FREE SO THAT CONTACTS CANNOT BE HELD CLOSED AGAINST ANY ABNORMAL OVERCURRENT OR SHORT CIRCUIT CONDITION.
- a) BREAKERS SHALL MEET APPLICABLE NEMA AND/OR UL SPECIFICATIONS.
- C. PANELBOARD BOXES SHALL BE GALVANIZED SHEET STEEL WITH AMPLE WIRING GUTTER SPACE IN ACCORDANCE WITH NEC. FRONTS SHALL BE OF SHEET STEEL PAINTED LIGHT GREY OVER A SUITABLE RUST INHIBITOR PRIMER. PANELBOARDS SHALL BE EQUIPPED WITH ONE PIECE DOOR, CYLINDER TUMBLER TYPE LOCK, DIRECTORY CARD-HOLDER AND QUARTER-TURN ADJUSTABLE TRIM CLAMPS.
- D. PANELBOARD INTERIORS SHALL CONSIST OF REINFORCED GALVANIZED SHEET STEEL FRAMES WITH ALUMINUM BUS BARS AND CIRCUIT BREAKERS, PROPERLY SUPPORTED TO PREVENT VIBRATIONS AND BREAKAGE IN HANDLING. BUS BARS SHALL BE SEQUENCE PHASED. PANELBOARD SHALL HAVE A FULL SIZED SOLID ALUMINUM NEUTRAL AND GROUND BUS.
- E. BUS BAR BRACING SHALL BE UL LISTED AS INDICATED ON DRAWINGS. ADDITIONAL BRACING SHALL BE PROVIDED AS REQUIRED TO MEET OR EXCEED INDICATED AVAILABLE FAULT CURRENTS.
- F. DIRECTORY CARDS SHALL BE COMPLETELY FILLED IN BY TYPEWRITER, LISTING CIRCUIT NUMBERS AND LOAD SERVED, INCLUDING EXISTING CIRCUITS. CIRCUIT BREAKERS SHALL BE IDENTIFIED BY CIRCUIT NUMBER LABELS AS HEREBEFORE SPECIFIED.
12. LIGHT FIXTURES:
- A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.
- B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACKWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
- C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS.
13. SLEEVES:
- A. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK.
- B. INTERIOR PARTITIONS: 18 GAUGE GALVANIZED STEEL, PACK BETWEEN CONDUIT AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.
- C. ROOF: PROSECT OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WEATHERPROOF SEAL, COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.
14. GROUNDING:
- A. GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 250, AND ANY LOCAL REQUIREMENTS. INSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED. PROVIDE BONDING JUMPER INSIDE ALL FLEXIBLE CONDUIT.
- B. BOND METAL PIPING SYSTEMS IN COMPLIANCE WITH NEC 250.4(A)(4).
15. REMODELING WORK:
- A. DEMOLITION, DISCONNECT, DEMOLISH AND REMOVE ABANDONED ELECTRICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR REMAIN.
- B. EQUIPMENT TO BE SALVAGED:
- 1) DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED. DELIVER EQUIPMENT TO THE LOCATION DESIGNATED BY THE OWNER FOR STORAGE.
- 2) ALL MATERIALS AND EQUIPMENT DESIGNATED TO BE REUSED OR RELOCATED SHALL BE CAREFULLY REMOVED, AND STORED UNTIL NEEDED FOR REMODELING WORK. ALL ITEMS SHALL BE RESTORED TO "LIKE NEW" CONDITION WITH RUST OR CORROSION REMOVED, SURFACE PAINT TOUCHED UP OR REPAINTED AS REQUIRED TO MATCH NEW CONSTRUCTION, AND THOROUGHLY CLEANED AND INSPECTED. ANY ITEMS WHICH BECOME DAMAGED BEYOND REPAIR AS A RESULT OF CONSTRUCTION OR DEMOLITION ACTIVITY SHALL BE REPLACED WITH NEW MATERIAL, EQUIVALENT IN EVERY RESPECT.
- C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.
- D. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE.
- E. PROVIDE ALL ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS, INTEGRATING THE NEW AND EXISTING AREAS. LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES PASSING THROUGH REMODELING AREA AND SERVING OTHER AREAS OUTSIDE THE REMODELING LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE REMODELING LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.
- 1) ABANDONED CONDUIT SHALL HAVE WIRE REMOVED AND SHALL BE CAPPED. ABANDONED OUTLETS IN WALLS OR PARTITIONS SHALL HAVE DEVICES AND WIRE REMOVED, AND SHALL BE COVERED.
- 2) WHERE EXISTING CONDUITS TERMINATE AT AN EXISTING OUTLET IN A WALL, CEILING, OR FLOOR TO BE REMOVED, DISCONNECT AND REMOVE DEVICE AND WIRE FROM CONDUIT. CONDUIT SHALL BE CUT BACK AND CAPPED (BELOW THE FLOOR OR ABOVE THE CEILING) SO NOT TO CREATE AN OBSTRUCTION. PATCH FLOOR TO MATCH EXISTING.
- 3) WHERE EXISTING CIRCUITS EXTEND BEYOND THE OUTLET IN THE EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, FURNISH AND INSTALL NEW CONDUIT AND WIRE TO EITHER RESROUTE THE CIRCUIT OR FEED THE REMAINING OUTLET(S) FROM ANOTHER ELECTRICAL SOURCE, BUT IN SUCH A MANNER AS NOT TO REVISE THE CIRCUIT. ALL RESROUTED CONDUIT SHALL BE APPROVED BY THE ARCHITECT.
- 4) WHERE EXISTING OUTLETS IN A WALL, CEILING, OR FLOOR TO BE REMOVED ARE ESSENTIAL TO MAINTAIN OPERATION OF OTHER REMAINING OUTLETS, RELOCATE THE OUTLET TO A NEW CONVENIENT LOCATION. EXISTING WIRING DEVICES SHALL NOT BE REUSED, UNLESS OTHERWISE INDICATED.
- 5) WHERE LIGHTING FIXTURES ARE INDICATED TO BE DEMOLISHED, REMOVE ALL WIRE AND MODIFY THE EXISTING CONDUIT (IF APPLICABLE) FOR THE NEW LIGHTING. ALL UNUSED CONDUIT SHALL BE REMOVED.
- 6) WHERE A TELEPHONE CIRCUIT EXTENDS BEYOND AN OUTLET IN AN EXISTING WALL, CEILING, OR FLOOR TO BE REMOVED, PROVIDE NECESSARY EMPTY CONDUIT AND NOTIFY THE OWNER WHO WILL REQUEST THE OWNER TO ARRANGE WITH THE TELEPHONE COMPANY FOR NEW WIRING TO OUTLETS THAT REMAIN.
- 7) WHERE EXISTING CONDUIT AND WIRE RUNS ARE LOCATED IN OR ATTACHED TO AN EXISTING WALL, CEILING OR FLOOR TO BE REMOVED, THEY SHALL BE RESROUTED IN EITHER NEW OR EXISTING CONSTRUCTION TO MAINTAIN CONTINUITY OF CIRCUITS UNLESS OTHERWISE INDICATED.
- 8) CONDUIT SHALL BE CONCEALED WITHIN THE EXISTING BUILDING CONSTRUCTION WHEREVER POSSIBLE, EXCEPT WHERE OTHERWISE INDICATED.
- 9) EXISTING WIRE SHALL BE DISCONNECTED AND REMOVED WHEREVER EXISTING CIRCUITS ARE ABANDONED.

ELECTRICAL SYMBOLS LIST

CIRCUITING & NOTES

+46"	SPECIAL MOUNTING HEIGHT FOR ASSOCIATED DEVICE (CENTERLINE OF DEVICE)
GFI	GROUND FAULT CIRCUIT INTERRUPTER DEVICE
WP	WEATHERPROOF ENCLOSURE ON DEVICE
IG	ISOLATED GROUND DEVICE
EM	EMERGENCY BATTERY BACKUP
(TIE)	PARTIAL HOMERUN. REFER TO PLANS FOR ADDITIONAL DEVICES CONNECTED TO THIS CIRCUIT.
X	ELECTRICAL FLOOR PLAN NOTE WITH DESIGNATION
LP	CONDUIT CONCEALED WHERE POSSIBLE OR AS NOTED, ARROWS INDICATE HOME RUN TO PANEL. CIRCUIT NUMBERS INDICATED
⚡	#12 WIRE IN CONDUIT, UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION
⚡	GROUNDING CONDUCTOR, #12 WIRE UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION
⚡	CONDUIT ROUTED UNDER FLOOR/GRADE

LIGHTING

⚡	EMERGENCY TWIN HEAD LIGHT FIXTURE
⚡	EXIT LIGHT WITH DIRECTIONAL ARROWS INDICATED
A	STRIP FIXTURE WITH TYPE DESIGNATION
A	RECESSED OR SURFACE MOUNTED FIXTURE WITH TYPE DESIGNATION
A	NIGHT LIGHT, CONNECT TO UNSWITCHED CIRCUIT
A	CEILING OR RECESSED FIXTURE WITH TYPE DESIGNATION
A	WALL MOUNTED FIXTURE WITH TYPE DESIGNATION

POWER DEVICES

⚡	DUPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE
⚡	HEAVY DUTY OUTLET - NEMA CONFIGURATION SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION
⚡	PANEL BOARD, TOP OF BOX 6'-0" AFF
⚡	JUNCTION BOX
⚡	NON-FUSED DISCONNECT SWITCH
⚡	FUSED DISCONNECT SWITCH
⚡	MOTOR WITH DESIGNATION
⚡	FLOOR BOX

CONTROLS

S	SINGLE POLE WALL SWITCH, TOP OF BOX AT 48" AFF
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OCCUPANCY SENSORS
1. DUAL TECHNOLOGY ULTRASONIC CEILING SENSORS SHALL BE MOUNTED 6' FROM SUPPLY/EXHAUST AIR DIFFUSERS.
2. LOW VOLTAGE CEILING SENSORS SHALL BE PROVIDED WITH 6' SLACK CONDUCTOR COILED AT SENSOR.

S	WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER #DW-100, TOP OF BOX AT 48" AFF
DS	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSORS, WATTSTOPPER DT-300
SP	OCCUPANCY SENSOR POWER PACK, WATTSTOPPER BZ-150 OR EQUAL, PROVIDE LOW VOLTAGE WIRING TO OCCUPANCY SENSORS AND MOMENTARY SWITCHES
S	MOMENTARY SWITCH, TOP OF BOX AT 48" AFF

COMMUNICATIONS

▼	DATA/TELEPHONE OUTLET WITH MINIMUM ¾" CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING, BOTTOM OF BOX AT 16", UNLESS NOTED OTHERWISE. PROVIDE WITH PULL STRING
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ELECTRICAL GENERAL NOTES:

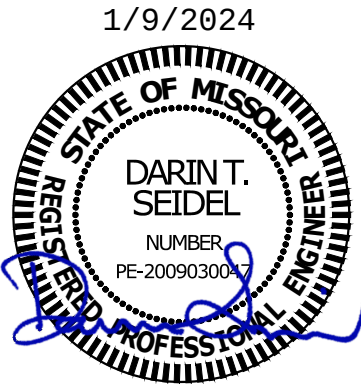
1. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED. WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
2. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.
3. ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRE, ETC. NOT BEING REUSED. DO NOT JUST ABANDON.
4. ELECTRICAL CONTRACTOR TO COORDINATE MANUFACTURER ELECTRICAL REQUIREMENTS FOR HVAC EQUIPMENT BEING FURNISHED WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. EQUIPMENT DISCONNECTS TO BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE IN MECHANICAL SCHEDULES.
5. ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
6. ALL BRANCH CIRCUITS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 3% VOLTAGE DROP. ALL FEEDERS SHALL BE SIZED TO ALLOW FOR A MAXIMUM OF 2% VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL VERIFY WIRING INDICATED IS SUFFICIENT AND INCREASE CONDUCTOR SIZE AS REQUIRED BASED OFF ACTUAL INSTALLED LENGTH OF CONDUCTORS.

PANEL: P		VOLTS: 120/208V			PH: 3Ø		WIRE: 4W		LOCATION:			EQPT 106			MOUNTING: SURFACE	
BUS: 400A		MAIN: 400A MLO			IC: 22.000		RMS SYM AMPS						FEEDER: SEE RISER DIAGRAM			
CHT	DESCRIPTION	AMPS	POLE	WIRE	ØA	ØB	ØC	ØA	ØB	ØC	WIRE	POLE	AMPS	DESCRIPTION	CHT NO	
1	40LB WASHER	15	2	12	645			645			12	2	15	30LB WASHER	2	
3						645			645						4	
5	40LB WASHER	15	2	12			645			645	12	2	15	30LB WASHER	6	
7					645			645							8	
9	60LB WASHER	20	2	12		874			645		12	2	15	30LB WASHER	10	
11							874			645					12	
13	60LB WASHER	20	2	12	874			645			12	2	15	30LB WASHER	14	
15						874			645						16	
17	80LB WASHER	20	2	12			874			645	12	2	15	30LB WASHER	18	
19					874			645							20	
21	80LB WASHER	20	2	12		874			645		12	2	15	30LB WASHER	22	
23							874			645					24	
25	60LB WASHER	20	2	12	874			645			12	2	15	30LB WASHER	26	
27						874			645						28	
29	60LB WASHER	20	2	12			874			645	12	2	15	30LB WASHER	30	
31					874			645							32	
33	40LB WASHER	15	2	12		645			645		12	2	15	40LB WASHER	34	
35							645			645					36	
37	40LB WASHER	15	2	12	645			645			12	2	15	40LB WASHER	38	
39						645			645						40	
41	WATER HEATERS	20	1	12			900			900	12	1	20	30LB DRYER STACK	42	

SECTION 2															
43	50LB DRYER STACK	30	1	10	2,400			960			12	1	20	30LB DRYER STACK	44
45	50LB DRYER STACK	30	1	10		2,400			960		12	1	20	30LB DRYER STACK	46
47	50LB DRYER STACK	30	1	10			2,400			960	12	1	20	30LB DRYER STACK	48
49	50LB DRYER STACK	30	1	10	2,400			960			12	1	20	30LB DRYER STACK	50
51	50LB DRYER STACK	30	1	10		2,400			960		12	1	20	30LB DRYER STACK	52
53	CHANGE MACHINE	20	1	12			150			960	12	1	20	30LB DRYER STACK	54
55	SOAP VENDING	20	1	12	150			540			12	1	20	DISPLAY WINDOW RECEIPTS	56
57	VENDING MACHINE [GF]	20	1	12		1,200			1,250		12	1	20	VIDEOGAME MACHINES	58
59	VENDING MACHINE [GF]	20	1	12			1,200			1,250	12	1	20	VIDEOGAME MACHINES	60
61	RECEPTACLES	20	1	12	1,260			1,250			12	1	20	VIDEOGAME MACHINES	62
63	LAUNDROMAT LIGHTS	20	1	12		1,252			1,250		12	1	20	VIDEOGAME MACHINES	64
65	OFFICE/SERVICE LIGHTS	20	1	12			337			1,200	12	1	20	BUILDING SIGNAGE	66
67	SPARE	20	1					1,667							68
69	SPARE	20	1						1,667		12	3	20	EUH-1	70
71	SPARE	20	1							1,667					72
73	SPARE	20	1					3,250							74
75	SPARE	20	1						3,250		8	3	40	EXISTING CONDENSING UNIT	76
77	EXISTING FURNACE	20	1	12			1,200			3,250					78
79					3,250			10,000							80
81	EXISTING CONDENSING UNIT	40	3	8		3,250			10,000		3	3	100	EXISTING AHU	82
83							3,250			10,000					84

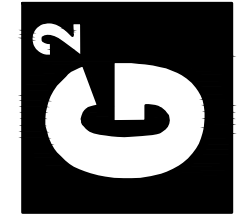
NOTES:	14,891	15,933	14,223	23,142	23,852	24,117
(GF)-GFI BREAKERS	38,033	39,785	38,340			
TOTAL CONNECTED LOAD:						116,158 VA
NEC DEMAND LOAD:						96,380 VA
DEMAND AMPS @ 208 VOLT / 3Ø:						267.52 A

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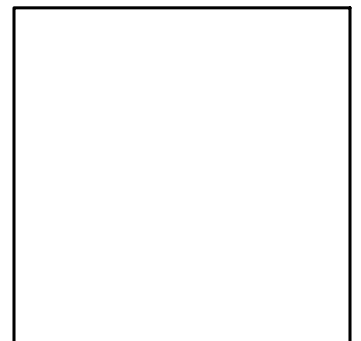


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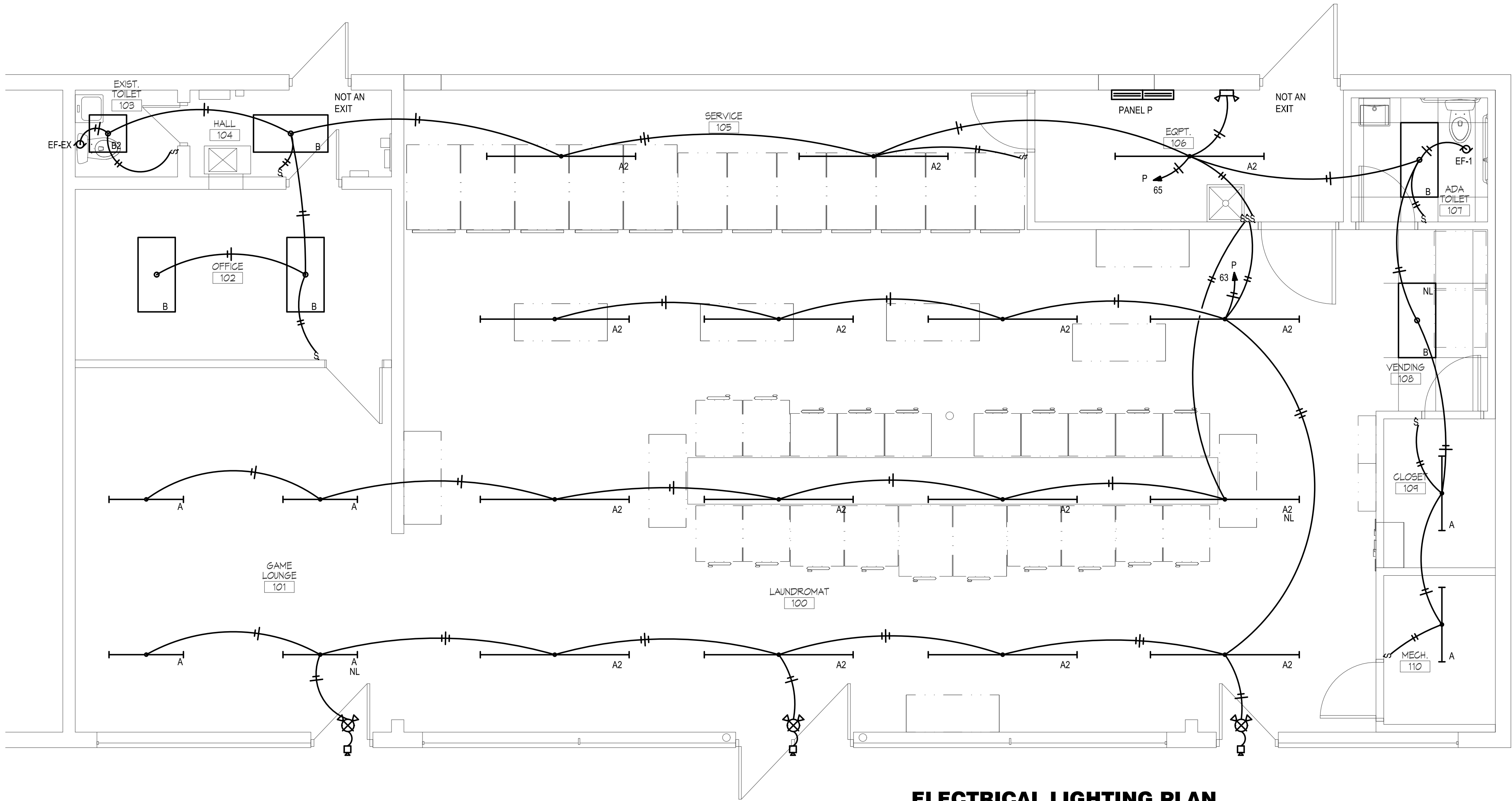
Snappy
Clean
LANDROMAT



REV/#	DATE	DESCRIPTION	
Issue Date:		01-11-24	
Project #:		23033	

ELECTRICAL LIGHTING
PLAN

E1



ELECTRICAL LIGHTING PLAN

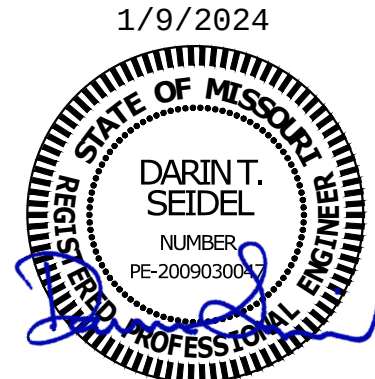
SCALE: 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

MARK NO.	MANUFACTURER & CATALOG NUMBER	VOLTS WATTS	LIGHT SOURCE	DESCRIPTION	EQUIVALENT MANUFACTURERS
A	LTHONIA CSS-L48-AL03-MVOLT-SWW3-80CRI	120 44	LED 5150LUM 4000K	4' LED STRIP LIGHT WITH FIELD SELECTABLE COLOR TEMPERATURE AND OUTPUT	WILLIAMS COLUMBIA OR EQUAL
A2	LTHONIA CSS-L96-AL04-MVOLT-SWW3-80CRI	120 90	LED 10000LUM 4000K	8' LED STRIP LIGHT WITH FIELD SELECTABLE COLOR TEMPERATURE AND OUTPUT	WILLIAMS COLUMBIA OR EQUAL
B	LTHONIA CPANL-2X4-AL06-SWW7-M2	120 41	LED 6000LUM 4000K	2X4 LED FLAT PANEL WITH FIELD SELECTABLE COLOR TEMPERATURE AND OUTPUT	WILLIAMS COLUMBIA OR EQUAL
B2	LTHONIA CPANL-2X2-AL01-SWW7-M2	120 31	LED 3300LUM 4000K	2X2 LED FLAT PANEL WITH FIELD SELECTABLE COLOR TEMPERATURE AND OUTPUT	WILLIAMS COLUMBIA OR EQUAL
⚡	LTHONIA ELM-LT-W-LP06VS-LTP	120 1	INCL	EMERGENCY LIGHT WITH TWIN ADJUSTABLE LED HEADS AND LITHIUM IRON PHOSPHATE BATTERY, MOUNT AT 7'-6"±, TO CLEAR OBSTACLES, (PROVIDES 1 FC AVG. ON 54" CENTER FIXTURE SPACING), WHITE FINISH	SURE-LITES DUAL-LITE OR EQUAL
⚡	LTHONIA LHQML-LED-R-HO-SD WITH ELA-TQWP-L0309	120 5	INCL	COMBINATION EMERGENCY/EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, TWIN 6W EMERGENCY LIGHT HEADS, UNIVERSAL MOUNT, HIGH CAPACITY BATTERY BACKUP AND REMOTE TWIN HEAD OUTDOOR RATED FIXTURE	SURE-LITES LITHONIA OR EQUAL

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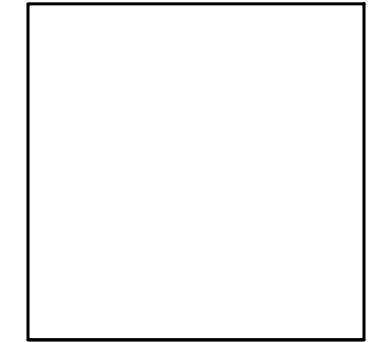
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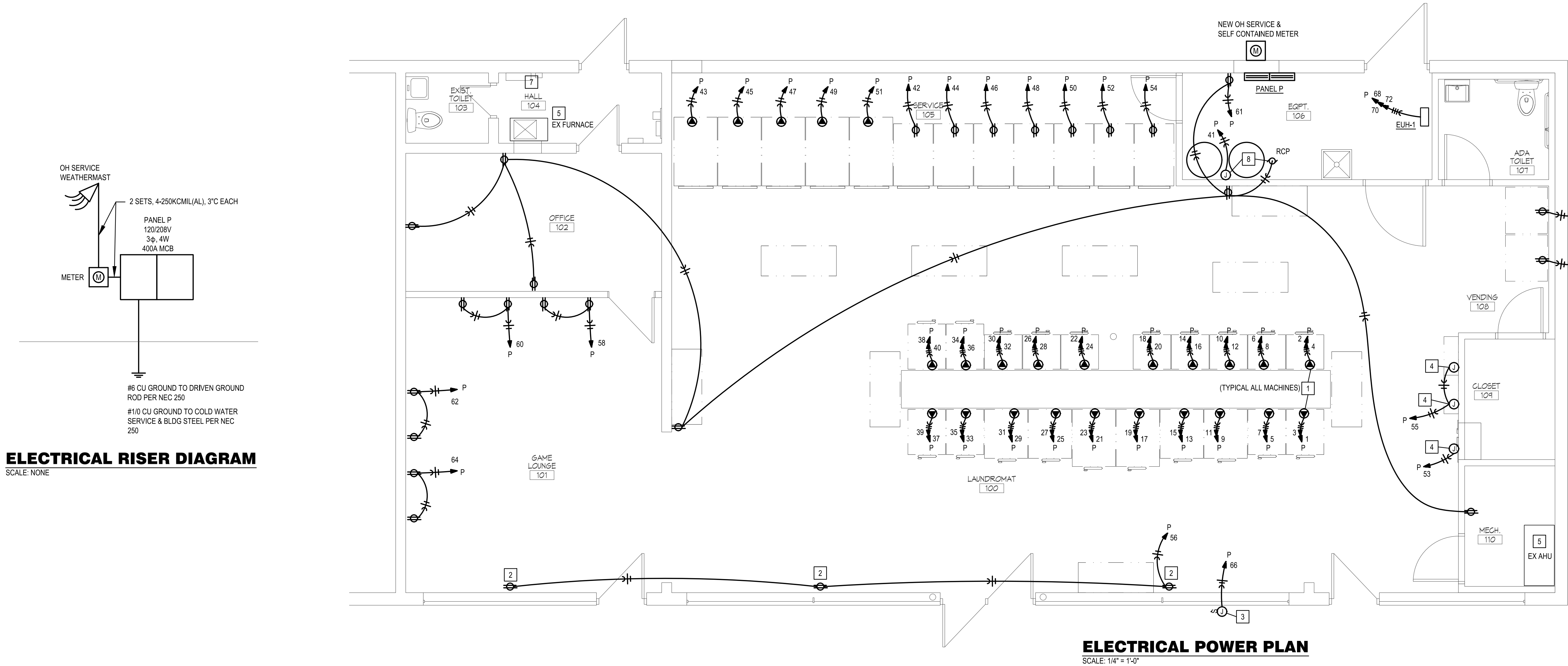
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REV/#	DATE	DESCRIPTION					
Issue Date:		01-11-24					
Project #:		23033					

ELECTRICAL POWER
PLAN

E2



ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

- ELECTRICAL PLAN NOTES:**
- 1 PROVIDE CORD & PLUG PER MANUFACTURER'S REQUIREMENTS AND CONNECT TO OWNER'S EQUIPMENT AS REQUIRED FOR PROPER OPERATION.
 - 2 DUPLEX RECEPTACLE MOUNTED ABOVE STOREFRONT GLASS FOR DISPLAY WINDOW SIGNAGE PER NEC.
 - 3 JUCTION BOX FOR CONNECTION TO BUILDING SIGNAGE. VERIFY EXACT LOCATION & REQUIREMENTS WITH SIGNAGE VENDOR. ROUTE CIRCUIT TO PANEL VIA EXTERIOR LIGHTING TIMECLOCK, INTERMATIC NET225C OR EQUAL TIMECLOCK LOCATED ADJACENT TO PANEL. PROGRAM TIMECLOCK TO AUTOMATICALLY CONTROL SIGNAGE AS DIRECTED BY OWNER.
 - 4 CONNECT TO CHANGE MACHINE & SOAP VENDING MACHINE PER MANUFACTURER'S INSTRUCTIONS. VERIFY EXACT LOCATION & REQUIREMENTS.
 - 5 INTERCEPT EXISTING CIRCUIT AND RE-ROUTE TO NEW BREAKER IN PANEL P. REFER TO PANEL SCHEDULE.
 - 6 CONNECT TO GAS WATER HEATERS AND RE-CIRC PUMP PER MANUFACTURER'S INSTRUCTIONS.
 - 7 REMOVE EXISTING ELECTRICAL SERVICE

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