

04 NOTES

ARCHITECTURAL GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CITY AND STATE'S BUILDING HEALTH RULES AND REGULATION. LOCAL ORDINANCES AND SUCH STATUTORY PROVISIONS WILL BE CONSIDERED AS MUCH AS A PART OF THESE SPECIFICATIONS.
2. GC SHALL FIELD VERIFIED ALL EXISTING DIMENSIONS AND PARTITIONS LOCATION, AND INFORM ARCHITECT.
3. THE DRAWINGS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. SHOULD A CONFLICT OCCUR, THE OWNER'S REPRESENTATIVE WILL DETERMINE THE INTENT OF THE DRAWINGS TO PROVIDE A COMPLETED AND FUNCTIONAL FACILITY. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THESE DRAWINGS AND REASONABLY INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED "FINISHED" RESULTS.
4. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK EACH CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND IN THE BUILDING AND SHALL BE RESPONSIBLE FOR THE ACTUAL DIMENSIONS AND THE DIMENSIONS INDICATED ON THE DRAWINGS. ALL WORK SHALL BE LAID OUT SUFFICIENTLY IN ADVANCE OF WORKMEN TO GIVE OPPORTUNITY FOR THE ARCHITECT TO ADJUST DISCREPANCIES OR RENDER DECISIONS WITHOUT CAUSING DELAY TO THE PROJECT BUT WORK SHOULD BE STOPPED WHEN NECESSARY AND IN NO CASE ALLOWED TO PROCEED IN UNCERTAINTY.
5. THESE DRAWINGS ARE FOR THIS SPECIFIC PROJECT AND NO OTHER USE IS AUTHORIZED.
6. ALL MATERIALS ARE NOT NOTED BY WORDS. IT IS INTENDED THAT THEY ARE UNDERSTOOD BY THE MATERIAL SYMBOL DRAWN.
7. WHERE A CONDITION IS NOTED "TYPICAL", IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS ARE TO BE CONSTRUCTED OF THE SAME MATERIALS, FINISH AND/OR DIMENSIONS.
8. ALL DIMENSIONS ARE TO THE FACE OF STUDS, THE FACE OF FINISHED WALL, OR CENTERLINE OF STRUCTURAL COLUMN AND THE FOREMENTIONED MATERIALS. CEILING ELEVATIONS, BEAM ELEVATION, SOFFIT ELEVATIONS ARE CLEAR "FINISHED" DIMENSIONS.
9. FURNISH AND INSTALL SOLID WOOD BLOCKING IN ALL INTERIOR STUD PARTITIONS WHERE STRUCTURAL SUPPORTS ARE REQUIRED FOR VANITIES, SHELVES, GRAB BARS, BENCHES, ETC.
10. WHERE DISSIMILAR MATERIALS MEET USE CAULKED JOINTS. USE METAL EDGES CORNERS AND STOPS AS REQUIRED ON ALL GYPSUM BOARD UNITS FOR FIRST CLASS FINISHED APPEARANCE.
11. ALL GYPSUM BOARD SHALL BE 5/8" "X" TYPE THROUGHOUT EXCEPT WHERE NOTED, AND SHALL INSTALL ACCORDING TO THE SPECIFICATION OF GYPSUM ASSOCIATION.
12. NO PLUMBING SUPPLIES, WASTES, ETC. TO BE LOCATED IN EXTERIOR WALLS EXCEPT FROST PROOF HOSE BIBS. ALL EXPOSED PIPES, DUCTS, CONDUIT SHALL BE ENCLOSED WITH GYPSUM BOARD ON FURRING INCLUDING THOSE NOT SHOWN ON THE DRAWINGS.
13. SLOPE 1" IN 4" RADIUS AROUND ALL FLOOR DRAINS.
14. ALL PLUMBING CHASES TO HAVE FULL BATT INSULATION.
15. EVERY CONTRACTOR SUBCONTRACTOR AND SUPPLIER SHALL PROVIDE A NOTARIZED STATEMENT OF ASSURANCE THAT NO PRODUCTS OR MATERIALS CONTAINING ASBESTOS WERE SUPPLIED OR INSTALLED ON THIS PROJECT.
16. COMBUSTIBLE MATERIALS OF ANY NATURE ARE NOT PERMITTED ABOVE THE CEILING
17. ALL CONTRACTORS MUST BE LICENSED TO WORK IN THE CITY
18. ANY AND ALL MATERIALS AND SUBSTANCE UTILIZED WITHIN THE PREMISES MUST BE ENVIRONMENTALLY SAFE AND NON-HAZARDOUS
19. INSTALL A SIGN THAT STATE THE OCCUPANT LOAD.
20. ALL BARRIER FREE FIXTURES AND ACCESSORIES ARE TO CONFORM TO THE AMERICANS WITH DISABILITIES ACT, THE STATE BARRIER FREE CODE AND ANY LOCAL ORDINANCES
21. INSTALL HANDICAP SIGN ON RESTROOM DOOR AND PARKING LOT SPACE. ALL SIGNS SHALL BE ADA APPROVED.

FIRE PROTECTION NOTES:

- 1.POSTING OF OCCUPANT LOAD. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.
2. MAINTENANCE OF FIRE-RESISTIVE ASSEMBLY FOR THE EXISTING DEMISING WALL: GC SHALL FIELD VERIFY AND MAINTAIN THE REQUIRED ONE HOUR FIRE-RESISTANT RATING OF FIRE-RESISTANCE-RATED CONSTRUCTION. SUCH ELEMENTS SHALL BE PROPERLY REPAIRED, RESTORED OR REPLACED WHEN DAMAGED, ALTERED, BREACHED OR PENETRATED. OPENINGS MADE THEREIN FOR THE PASSAGE OF PIPES, ELECTRICAL CONDUIT, WIRES DUCTS, AIR TRANSFER OPENINGS AND HOLES MADE FOR ANY REASON SHALL BE PROTECTED WITH APPROVED METHODS CAPABLE OF RESISTING THE PASSAGE OF SMOKE AND FIRE. OPENINGS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROTECTED BY SELF- OR AUTOMATIC- CLOSING DOORS OF APPROVED CONSTRUCTION MEETING THE FIRE PROTECTION REQUIREMENTS FOR THE ASSEMBLY.
3. INSTALLATION ACCEPTANCE TESTING: FIRE DETECTION AND ALARM SYSTEMS, FIRE EXTINGUISHING SYSTEM, FIRE HYDRANT SYSTEMS, AND ALL OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES THERETO SHALL BE SUBJECT TO ACCEPTANCE TESTS AS CONTAINED IN THE INSTALLATION STANDARD AND AS APPROVED BY THE FIRE CODE OFFICIAL. THE FIRE CODE OFFICIAL SHALL BE NOTIFIED BEFORE ANY REQUIRED ACCEPTANCE TESTING.
4. PORTABLE FIRE EXTINGUISHERS FOR COMMERCIAL COOKING EQUIPMENT. PORTABLE FIRE EXTINGUISHER SHALL BE PROVIDED WITH A 30 FOOT TRAVEL DISTANCE OF COMMERCIAL TYPE COOKING EQUIPMENT. COOKING EQUIPMENT INVOLVING VEGETABLE OR ANIMAL OILS AND FATS SHALL BE PROTECTED BY A CLASS K RATED PORTABLE EXTINGUISHER. A K-CLASS EXTINGUISHER SHALL BE PROVIDED AND LOCATED UNDER THE MANUAL PULL FOR THE HOOD.
5. PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NFPA
6. OWNER SHALL BE MAINTAIN ABC TYPE EXTINGUISHERS.
7. MAINTENANCE OF EXTERIOR DOORS AND OPENINGS: EXTERIOR DOORS AND THEIR FUNCTION SHALL NOT BE ELIMINATED WITHOUT PRIOR APPROVAL.
8. THE FINAL DETERMINATION FOR THE REQUIREMENTS OF EXIT SIGNAGE AND EMERGENCY LIGHTING SHALL BE MADE IN THE FIELD
9. THE ADDRESS NUMBERS, PER 2018 IFC 505.1, SHALL BE 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 BUILDING 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). THE ADDRESS FOR THE SPACE SHALL BE POSTED ON THE FRONT AND REAR DOORS. VERIFIED AT INSPECTION.

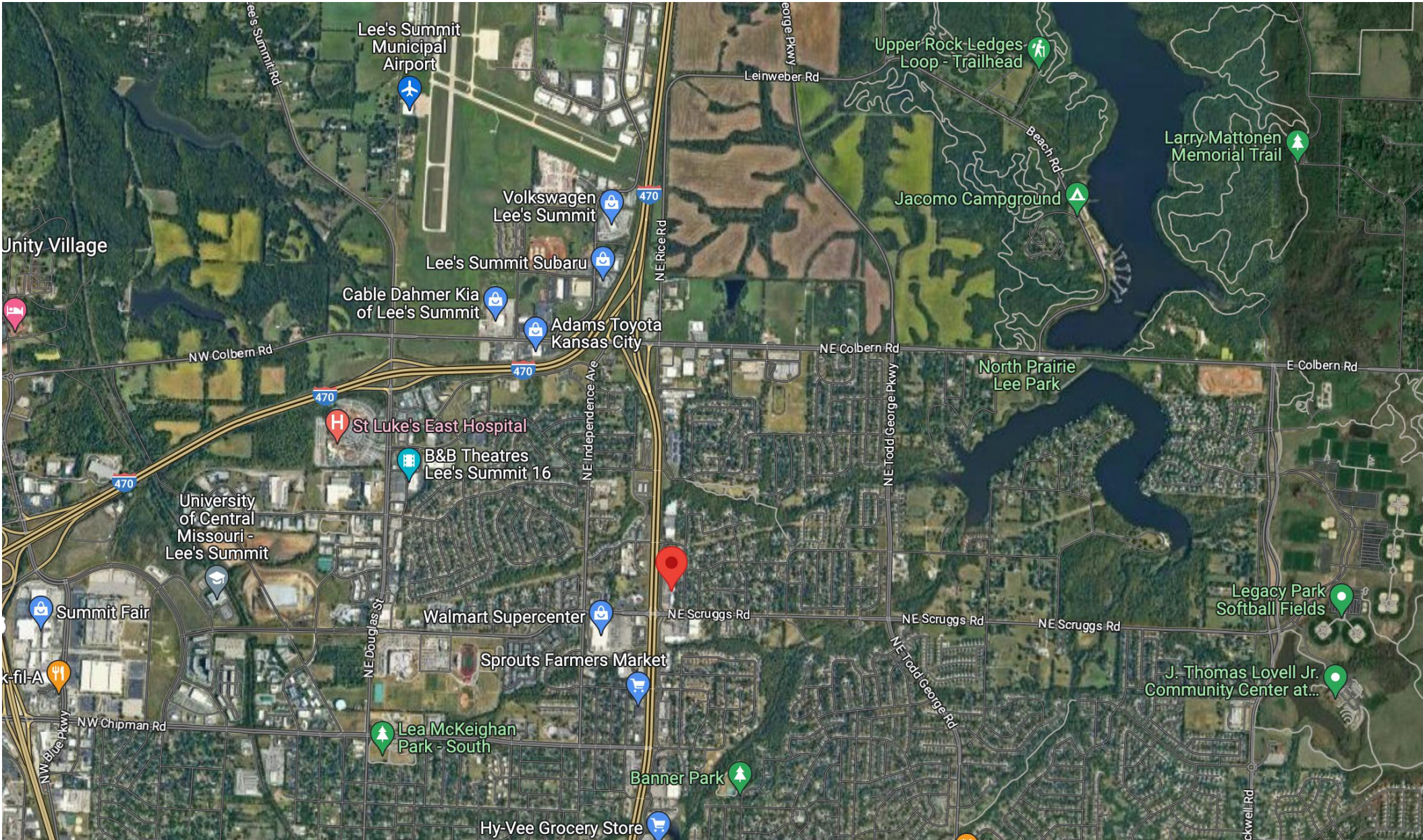
10. A KNOX BOX SHALL BE PROVIDED NEAR THE MAIN ENTRANCE TO THE BUILDING (IFC-2018 § 506.1) THROUGH FIRE DEPARTMENT.
 11. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER (IFC-2018 906.2 AND NFPA 10): PROVIDE A MINIMUM OF TWO, 2A,10B,C FIRE EXTINGUISHERS. PLACE NEAR THE FRONT AND REAR OF THE BUILDING IN A CONSPICUOUS LOCATION IN A NORMAL PATH OF TRAVEL. VERIFIED AT INSPECTION.
- SMOKING ORDINANCE IN LEE'S SUMMIT:
- THE CITY OF LEE'S SUMMIT HAS AN ORDINANCE WHICH PROHIBITS SMOKING IN VIRTUALLY ALL ENCLOSED AREAS OF PUBLIC PLACES AND PLACES OF EMPLOYMENT. PER THE ORDINANCE, A "NO SMOKING" SIGN OR THE INTERNATIONAL "NO SMOKING" SYMBOL (CONSISTING OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT) SHALL BE CLEARLY AND CONSPICUOUSLY POSTED AT EVERY ENTRANCE WHERE SMOKING IS PROHIBITED. THE PERSON WHO OWNS, MANAGES, OPERATES OR OTHERWISE CONTROLS A PUBLIC PLACE OR PLACE OF EMPLOYMENT IS RESPONSIBLE FOR COMPLIANCE WITH THE CLEAN INDOOR AIR ACT. QUESTIONS REGARDING THE CLEAN INDOOR AIR ACT MAY BE DIRECTED TO DEVELOPMENT SERVICES AT (816) 969-1200.

05 KEY

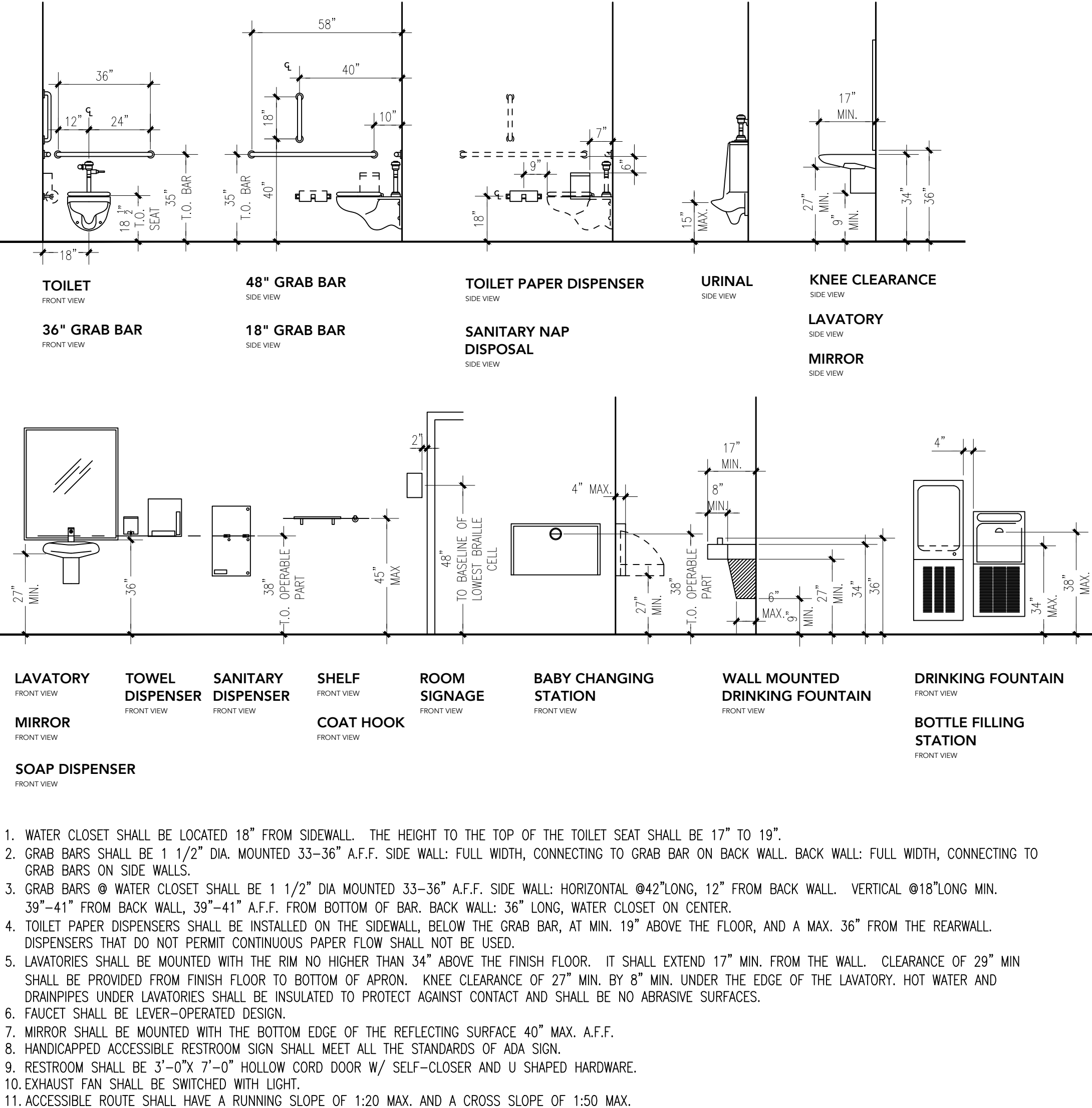
- FLOOR DRAIN/SINK
- PORTABLE FIRE EXTINGUISHER
- EMERGENCY EXIT FIXTURE WITH 90 MIN. BACK-UP
- RELOCATED EXIST. COMBINATION OF EXIT & EMERGENCY LIGHT UNIT WITH 90 MIN. BACK-UP
- ELEC. PANEL EXISTING
- SINGLE SWITCH 48" A.F.F. TYP. RELOCATE EXISTING OR PROVIDE NEW AS NECESSARY
- ELECT. RECEPTACLE ELEVATION PER OWNER RELOCATE EXISTING OR PROVIDE NEW AS NECESSARY
- EXHAUST FAN SWITCHED WITH LIGHT VENT THROUGH ROOF TO THE EXTERIOR
- REVISION CLOUD

- ROOM NAME
- PLAN NOTE
- EQUIPMENT NUMBER
- 280 POWER OUTLET
- SECTION CUT
- DEMISING WALL
- NEW LOW WALL/ CABINETRY PER OWNER
- NEW WALL
- EXISTING WALL
- DEMO WALL

02 SITE CONTEXT



03 ADA RESTROOM MOUNTING HEIGHTS FOR BATHROOM ACCESSORIES



01 BUILDING INFORMATION

ON JANUARY 8, 2019, THE LEE'S SUMMIT CITY COUNCIL ADOPTED NEW BUILDING CODE REGULATIONS (ORDINANCE #8536) AND A NEW FIRE CODE (ORDINANCE #8537). THESE ORDINANCES ADOPT PROVISIONS FROM THE FOLLOWING NATIONALLY PUBLISHED CONSTRUCTION CODES:

- 2018 INTERNATIONAL BUILDING CODE
 - 2018 INTERNATIONAL PLUMBING CODE
 - 2018 INTERNATIONAL MECHANICAL CODE
 - 2018 INTERNATIONAL FUEL GAS CODE
 - 2018 INTERNATIONAL RESIDENTIAL CODE
 - 2018 INTERNATIONAL FIRE CODE
 - 2017 NATIONAL ELECTRICAL CODE
- ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

SCOPE OF WORK

THE REMODELING OF AN EXISTING BUSINESS INSIDE OF AN ESTABLISHED SHOPPING CENTER TO MEET THE NEEDS OF THE NEW SALON BUSINESS OPERATION UNDER THE NEW OWNERSHIP.

CODE AND OCCUPANT LOAD DATA

OCCUPANCY TYPE	B	
CONSTRUCTION TYPE	5B	
FLOOR AREA	2,200 SQ. FT	
MAXIMUM OCCUPANCY LOAD	85, OCCUPANCY LOAD CALCULATIONS BASED ON: 1004.5.1 Increased Occupant Load	
NO. OF EXIT REQUIRED NO. OF WATER CLOSET(S) NO. OF LAVATORY(S)	REQUIRED 2 3 3	PROVIDED 3 3 3
NO. OF STORIES	1 STORY	
SPRINKLERS	THIS IS A SPRINKLED BUILDING AND HAS AN EXISTING FIRE ALARM IN THE BUILDING. GC TO SUBMIT SHOP DRAWINGS FOR BOTH WORKS PRIOR TO THE COMMENCEMENT OF ANY WORK. (DELAYED SUBMITTALS).	
ROOM	OCCUPANT LOAD	
RECEPTION	1	
WAITING LOUNGE	20	
PEDICURE	20	
MANICURE	40	
WAX	1	
STORAGE	1	
UTILITY	1	
STAFF OFFICE	1	
TOTAL	85	

PLANNING AND DEVELOPMENT

PARKING DATA

PARKING- NO CHANGE OF USE

PARKING PROVIDED BY DEVELOPER HAS COMPLY WITH THE CITY'S STANDARDS FOR OFF-STREET PARKING. ACCESSIBLE PARKING SPACES AND RAMPS ARE LOCATED IN FRONT OF THIS FACILITY.

NO NEW/EXISTING RTU CAN BE SIGHTED FROM GROUND LEVEL. IF SO GC SHALL PROVIDE RTU SCREEN MATCHING BUILDING MATERIALS AND APPROVED BY CITY.

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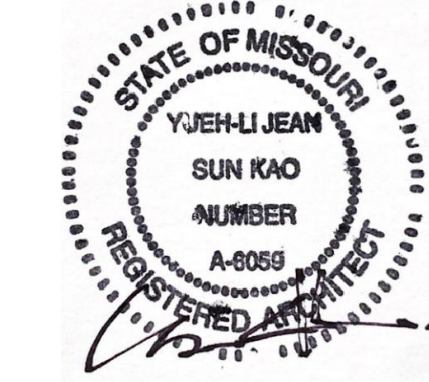
CORNERSTONE
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PROJECT:

LAVISH
NAILS &
LASHES,

1155 NE RICE ROAD
LEE'S SUMMIT, MISSOURI
64086



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M200	MECHANICAL FLOOR PLAN
MP300	PLUMBING NOTES
MP301	PLUMBING DIAGRAMS
MP400	MECHANICAL NOTES

CONSULTANTS:

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TEL: 816-916-4675

ISSUE PACKAGE:

NO: 1
CITY COMMENTS
DATE 10/12/2023

OWNER: --
EMAIL: --

DRAWN BY: JRK
CHECKED BY: YJK
PROJECT: NAIL SALON

DATE 08/02/2023

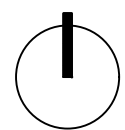
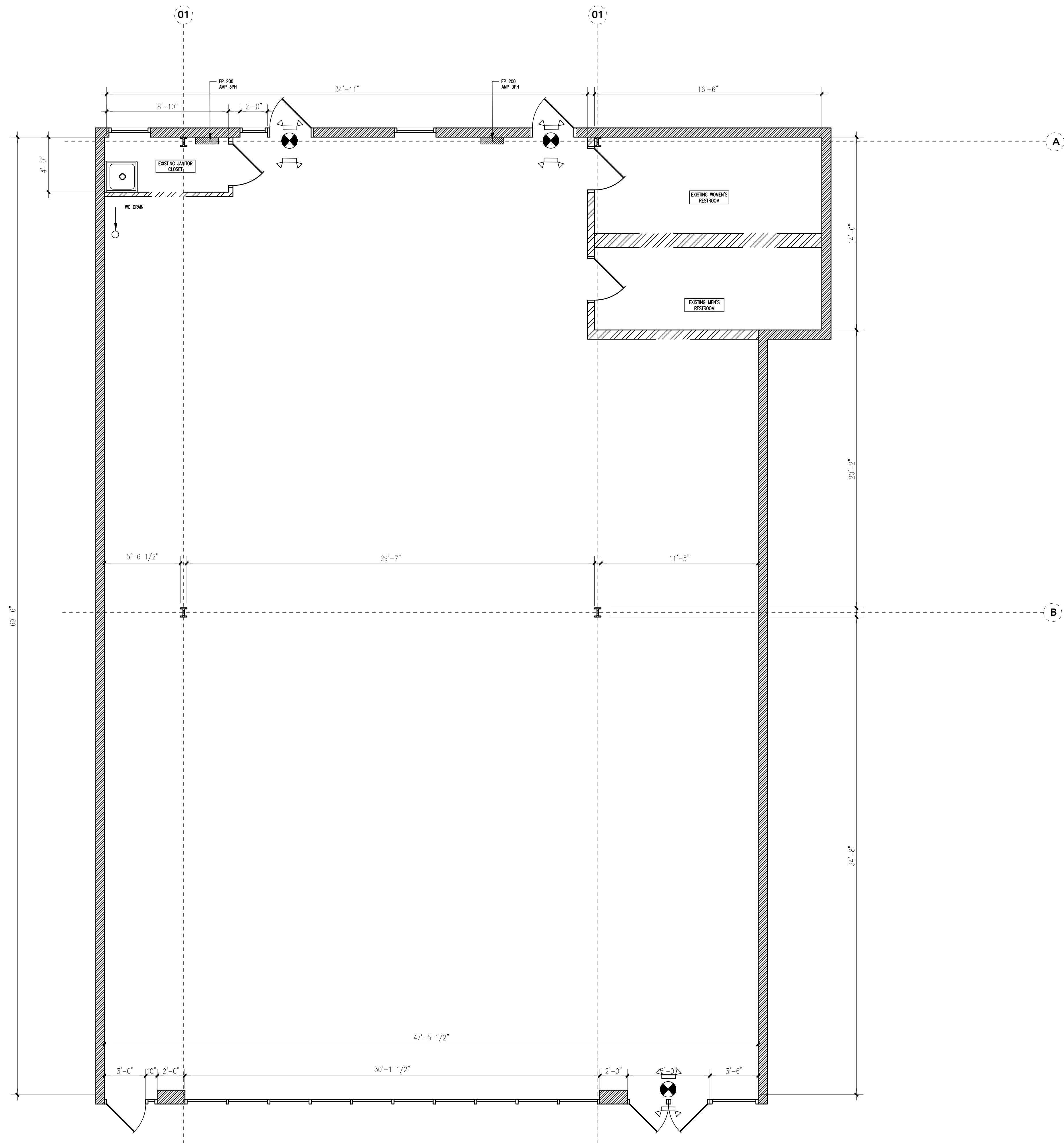
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SCALE 1/4" = 1'-0"

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01

EXISTING / DEMO FLOOR PLAN

SCALE: $\frac{1}{4}" = 1'-0"$

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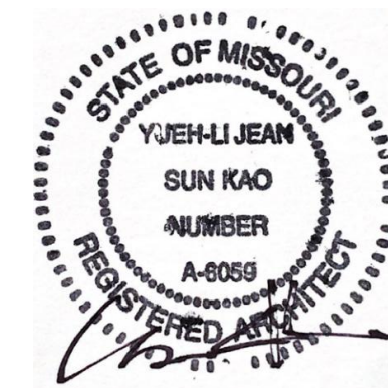
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DRAWING

EXISTING
AND PROPOSED
FLOOR PLAN

SCALE $\frac{1}{4}" = 1'-0"$

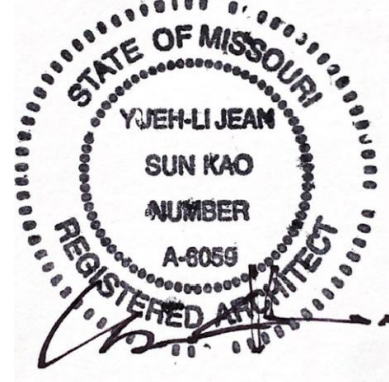
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A101

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DRAWING

DETAILS +
SCHEDULES

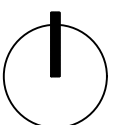
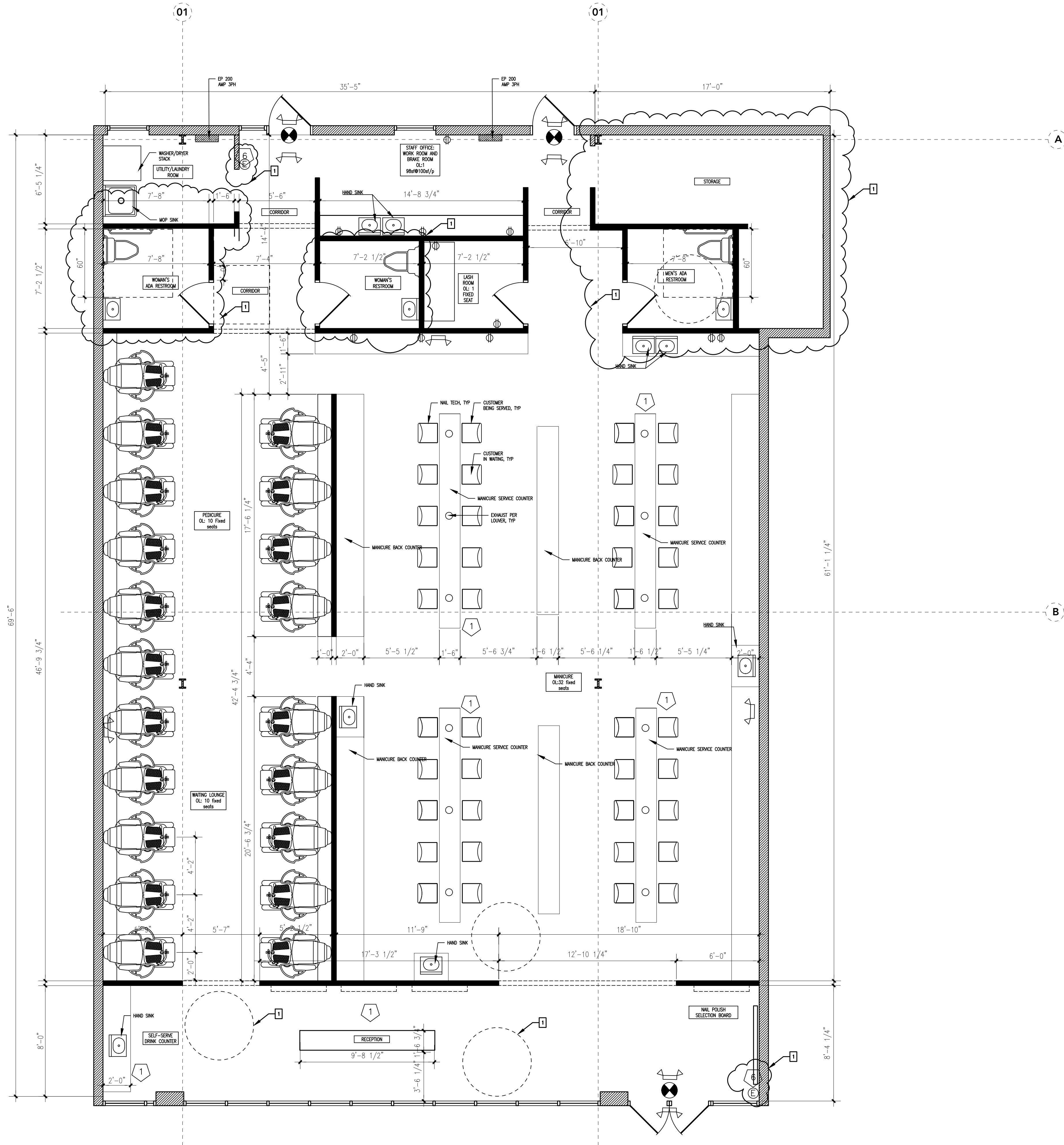
SCALE 1/4" = 1'-0"

SHEET NUMBER

A102

02 PLAN NOTES

1. ALL COUNTERS TO BE A MINIMUM OF 36" LENGTH AND THE TOP OF COUNTER @36" AFF
2. NAIL DRYER BATTERY POWER, TABLE TOP MODEL
3. PORTABLE FIRE EXTINGUISHERS: Per 2018 IFC 906.2, GC PROVIDE, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS SECTION AND NFPA 10. PROVIDE A MINIMUM OF TWO, 2A,10B,C FIRE EXTINGUISHERS. PLACE NEAR THE FRONT AND REAR OF THE BUILDING IN A CONSPICUOUS LOCATION IN A NORMAL PATH OF TRAVEL. VERIFIED AT INSPECTION
4. SIGN THIS DOOR SHALL BE REMAIN UNLOCK DURING BUSINESS HOURS
5. NAIL DRYER BATTERY POWER, TABLE TOP MODEL
6. PORTABLE FIRE EXTINGUISHERS: Per 2018 IFC 906.2, GC PROVIDE, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS SECTION AND NFPA 10. PROVIDE A MINIMUM OF TWO, 2A,10B,C FIRE EXTINGUISHERS. PLACE NEAR THE FRONT AND REAR OF THE BUILDING IN A CONSPICUOUS LOCATION IN A NORMAL PATH OF TRAVEL. VERIFIED AT INSPECTION



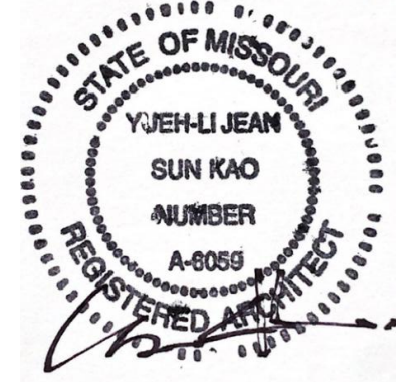
01 PROPOSED FLOOR PLAN

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

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10/12/2023

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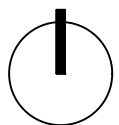
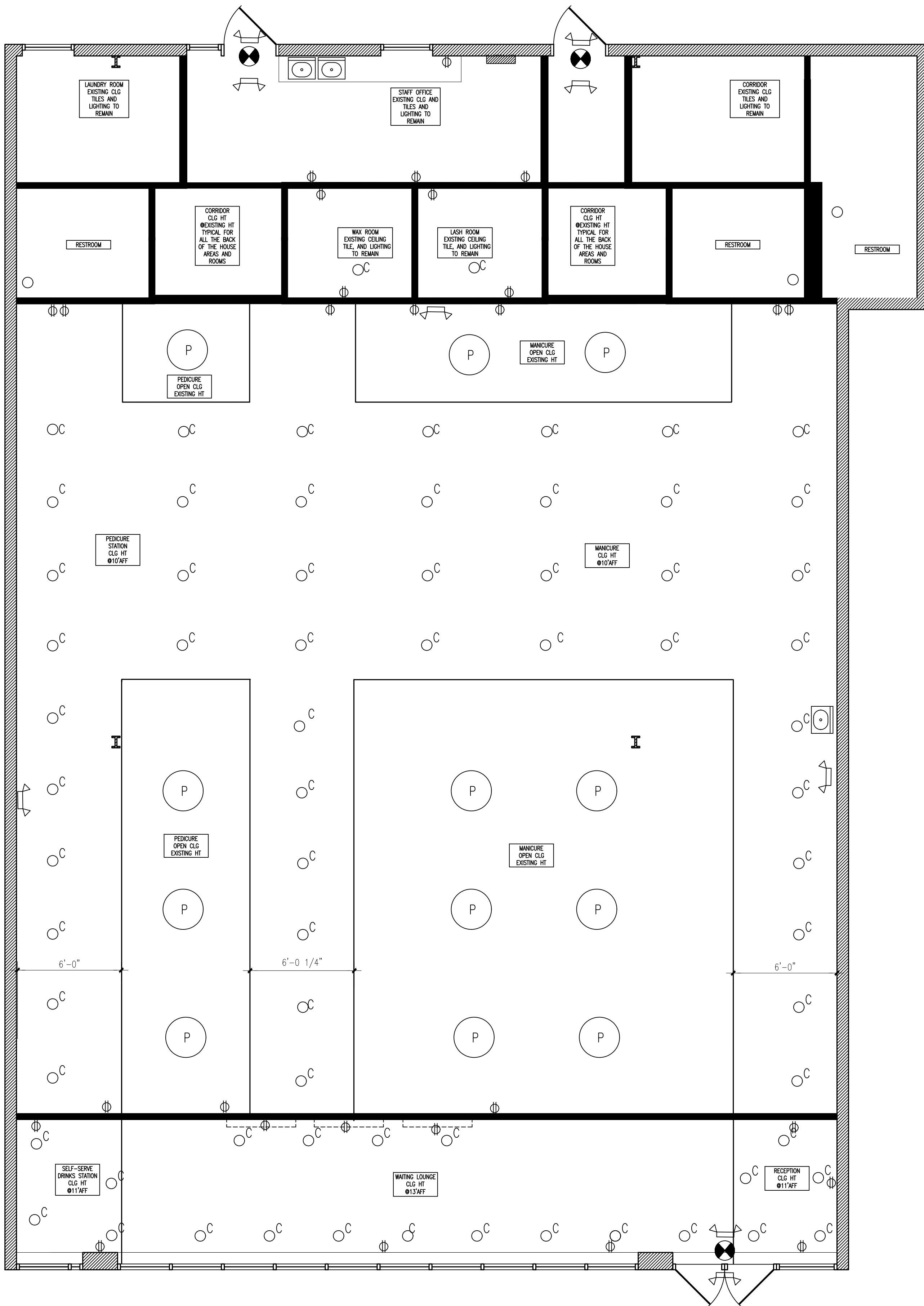
DATE 08/02/2023

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SCALE 1/4" = 1'-0"

SHEET NUMBER

A103



01 REFLECTIVE CEILING PLAN

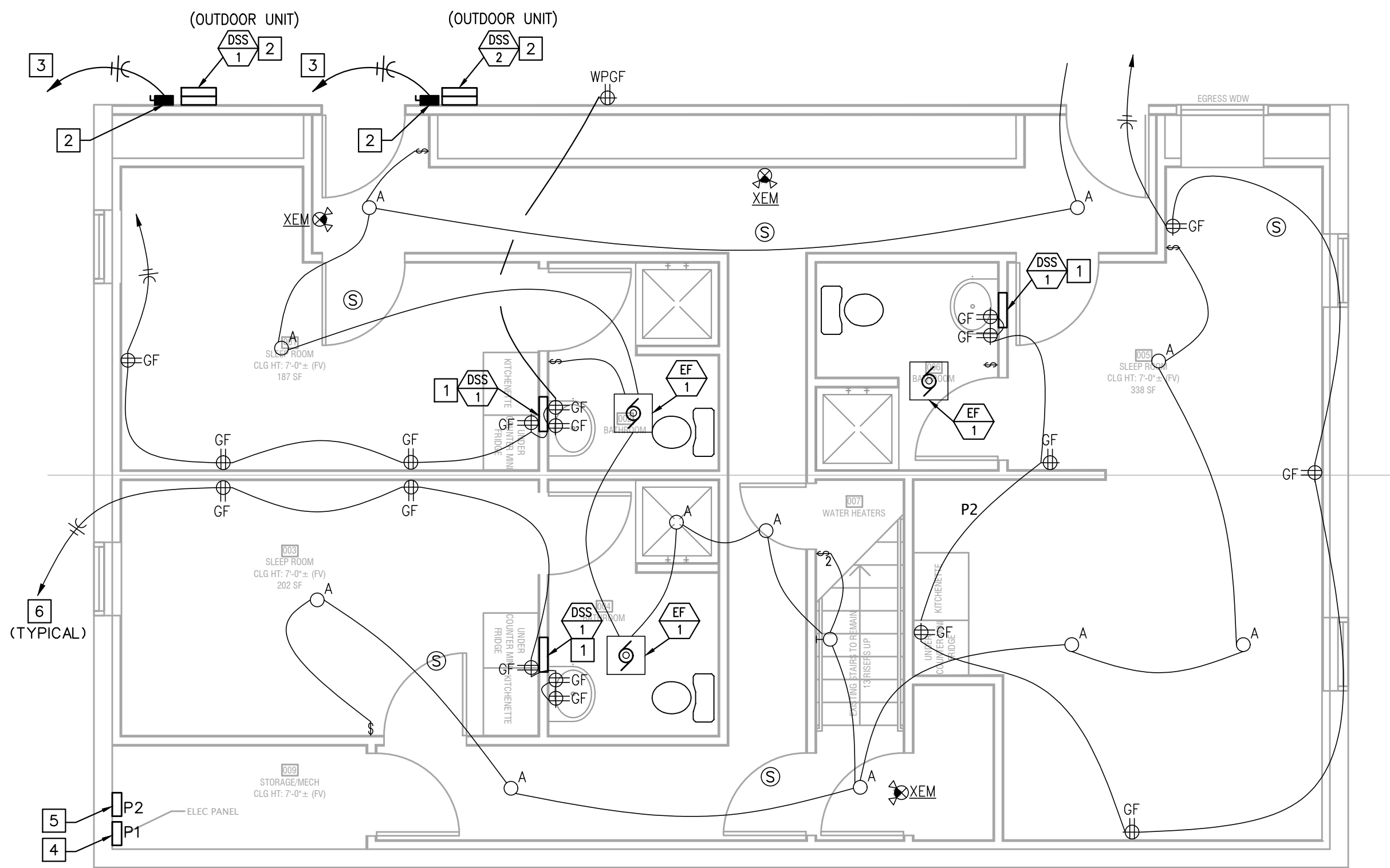
SCALE: 1/4" = 1'-0"

1. EXISTING DISCONNECT SWITCH TO REMAIN.
2. EXISTING CIRCUIT TO REMAIN.
3. 20A/1P, HORSEPOWER RATED TOGGLE SWITCH INSTALLED ON UNIT FOR DISCONNECTING MEANS. DO NOT INSTALL ON ACCESS PANEL.
4. ROUTE HOMERUN TO PANEL INDICATED AND CONNECT TO SPARE 20A/1P CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION.
5. ROUTE HOMERUN TO PANEL INDICATED AND CONNECT TO SPARE 30A/2P CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION. 3/4" CONDUIT WITH 2-#10 (CU) AND 1-#10 (CU) EQUIPMENT GROUNDING CONDUCTOR.



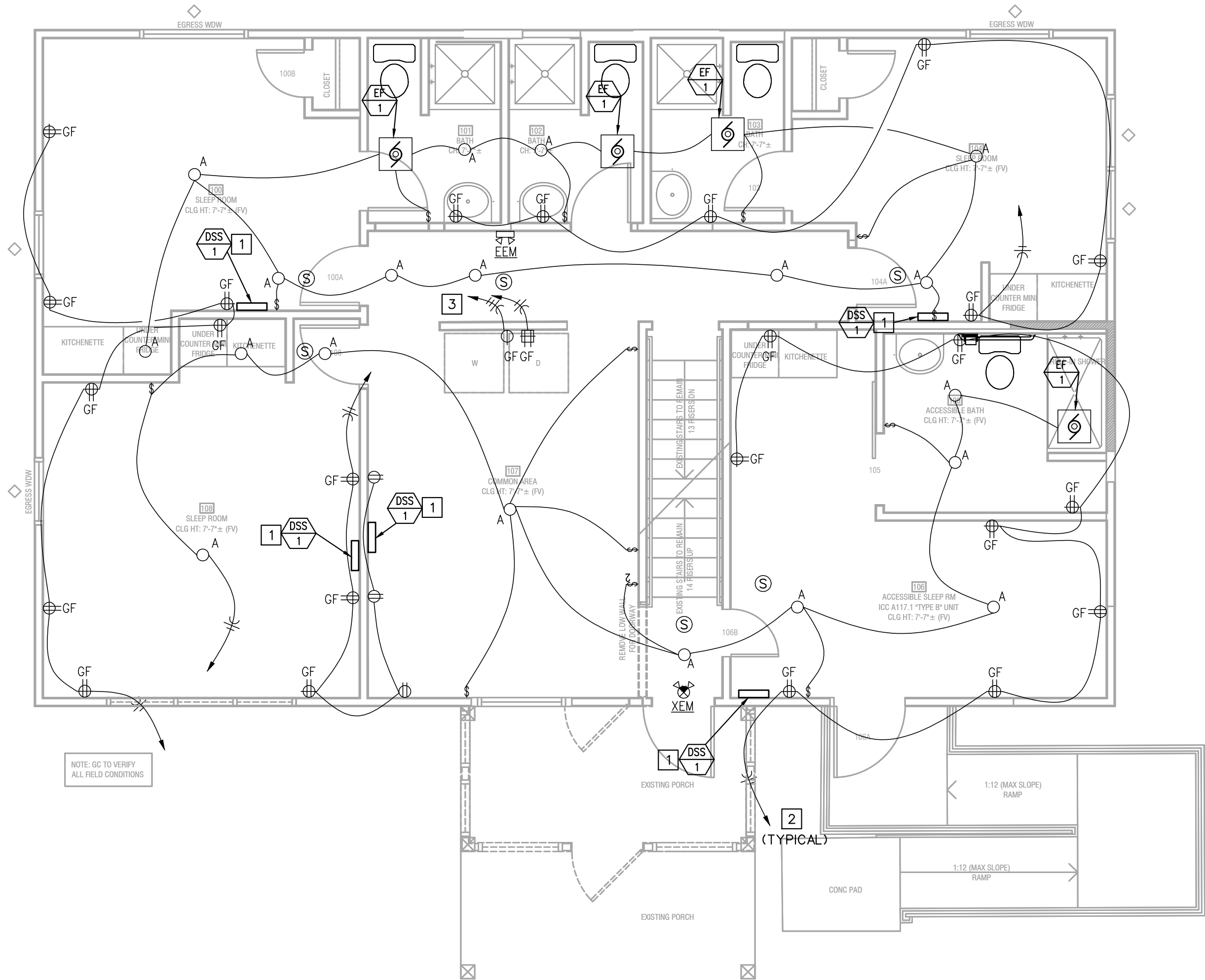
Glodfelter Engineering Group assumes design responsibility for this project for only the mechanical, plumbing and electrical disciplines with drawing sheet number beginning with M, P, and E. All other drawings should be considered the work of others. Further, drawings in this project set may contain drawing information, including but not limited to: architectural plans, electrical and elevations, structural steel, and other disciplines. Responsibility for the mechanical, plumbing and electrical work which is furnished by others, generally indicated by screened or light type. Glodfelter Engineering Group assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on drawings. Glodfelter Engineering Group assumes no responsibility for the accuracy of mechanical, plumbing and electrical disciplines contained herein, generally indicated in bold type.

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BASEMENT LEVEL LIGHTING/ POWER FLOOR PLAN

1/4" = 1'-0"



1ST LEVEL LIGHTING/ POWER FLOOR PLAN

1/4" = 1'-0"



BASEMENT LIGHTING/POWER PLAN NOTES

1. POWER FROM INDOOR UNIT PROVIDED FROM OUTDOOR UNIT.
2. 30-AMP, 2-POLE, NEMA 3R DISCONNECT SWITCH.
3. THREE (3) #10 CU, ONE (1) #10 CU G BACK TO 30-AMP CB AT PANEL (CONFIRM SIZE WITH MC).
4. NEW 30-SPACE, 240-VOLT, 200-AMP SINGLE PHASE PANEL.
5. NEW 24-SPACE, 240-VOLT, 125-AMP SINGLE PHASE PANEL.
6. EXTEND BACK TO 20-A CB AT PANEL P1 OR P2.

ELECTRICAL SYMBOLS

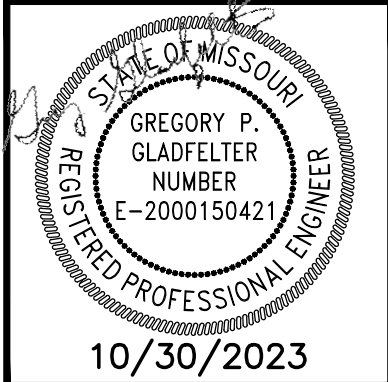
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.
	WALL MOUNTED JUNCTION BOX.
	CEILING MOUNTED JUNCTION BOX.
	PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.
	DISCONNECT SWITCH. SIZED AS NOTED.
	SINGLE POLE SWITCH. +3'-10" AFF.
	DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.
	FOURPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
	FOURPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	HEAVY DUTY RECEPTACLE. VOLTAGE, PHASE AND AMPS AS NOTED. +1'-6" AFF OR AS NOTED.
	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.
	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.
	HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.
	ELECTRIC WATER HEATER AND NUMBER.
	EXHAUST FAN AND NUMBER.
	CONDENSING UNIT AND NUMBER.
	FURNACE AND NUMBER.
	ABOVE FINISH FLOOR.
	EXISTING TO REMAIN.
	EXISTING RELOCATED.
	ELECTRICAL CONTRACTOR.
	EQUIPMENT GROUNDING CONDUCTOR.
	GROUNDING ELECTRODE CONDUCTOR.
	MAIN BONDING JUMPER.

1ST LEVEL LIGHTING/POWER PLAN NOTES

1. POWER FROM INDOOR UNIT PROVIDED FROM OUTDOOR UNIT.
2. EXTEND BACK TO 20-A CB AT PANEL P1 OR P2.
3. THREE #10 CU BACK TO 2-POLE, 30-AMP CB AT PANEL P1.

ELECTRICAL GENERAL NOTES

- A) SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- B) COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- C) ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
- D) OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.
- E) CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- F) ALL BRANCH CIRCUITS SERVING OUTLETS IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS SHALL BE PROTECTED BY A LISTED ARC-FAULT INTERRUPTER IN ACCORDANCE WITH ARTICLE 210-12 OF THE 2017 NEC.



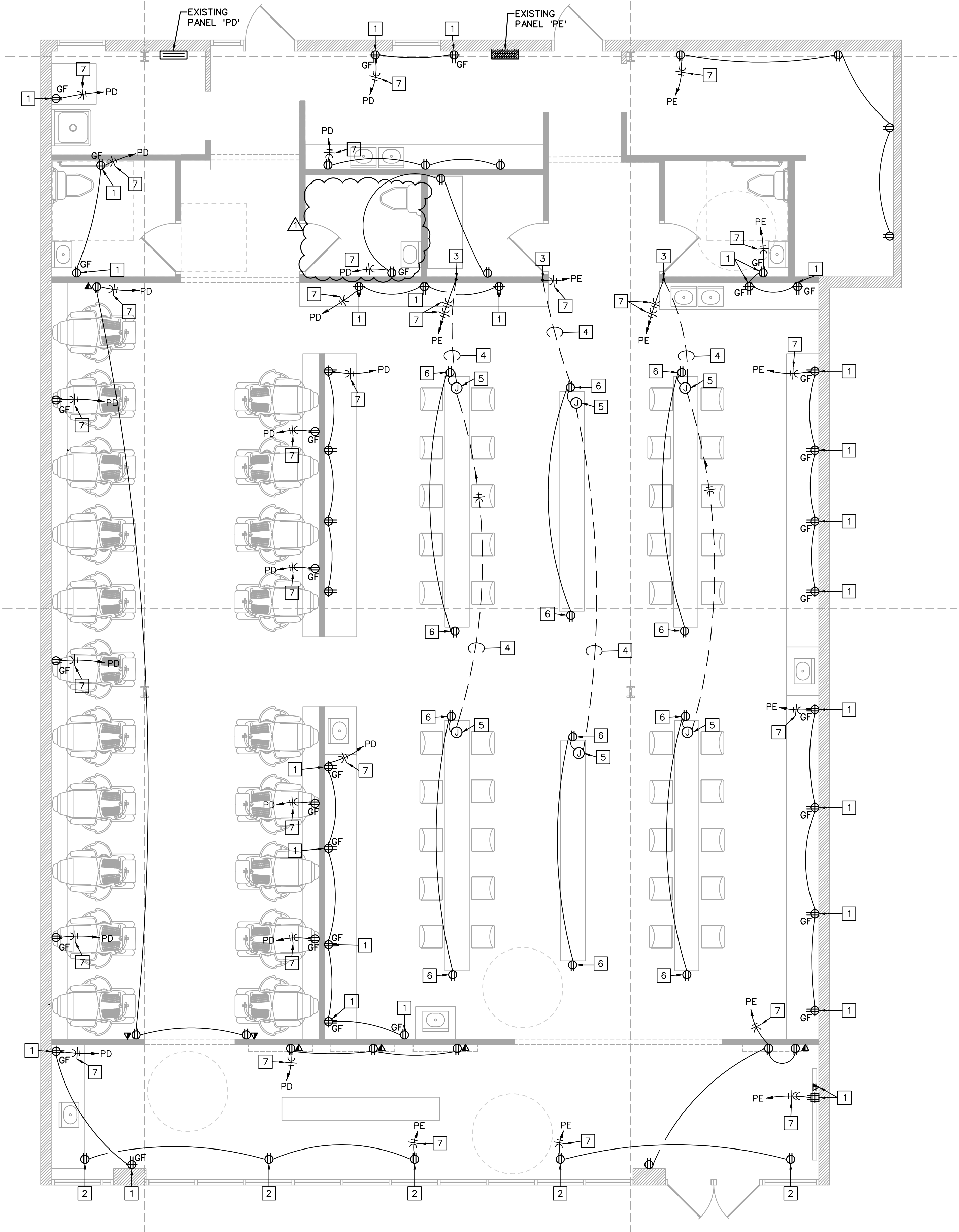
HALFWAY HOUSE
8705 E 63rd ST
KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
10/30/2023	PERMIT
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

E200

1. INSTALL OUTLET BOX FOR WIRING DEVICE AT 42" AFF.
2. SHOW-WINDOW RECEPTACLE INSTALLED ON WALL OR IN CEILING ABOVE WINDOW WITHIN 12" OF WINDOW OPENING PER NEC.
3. 3/4" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
4. SAW-CUT EXISTING FLOOR AND INSTALL (1) NEW 3/4" PVC CONDUIT TO JUNCTION BOX IN COUNTER. PATCH AND REPAIR FLOOR BACK TO EXISTING CONDITIONS.
5. J-BOX INSTALLED IN COUNTER FOR CONNECTION OF RECEPTACLES IN COUNTER. VERIFY EXACT LOCATION WITH TENANT/ARCHITECT PRIOR TO INSTALLATION.
6. RECEPTACLE INSTALLED IN COUNTER. VERIFY EXACT HEIGHT AND LOCATION WITH TENANT/ARCHITECT PRIOR TO INSTALLATION.
7. ROUTE HOMERUN TO PANEL INDICATED AND CONNECT TO SPARE 20A/1P CIRCUIT BREAKER MADE AVAILABLE DUE TO DEMOLITION.



POWER PLAN

1/4" = 1'-0"




NORTH

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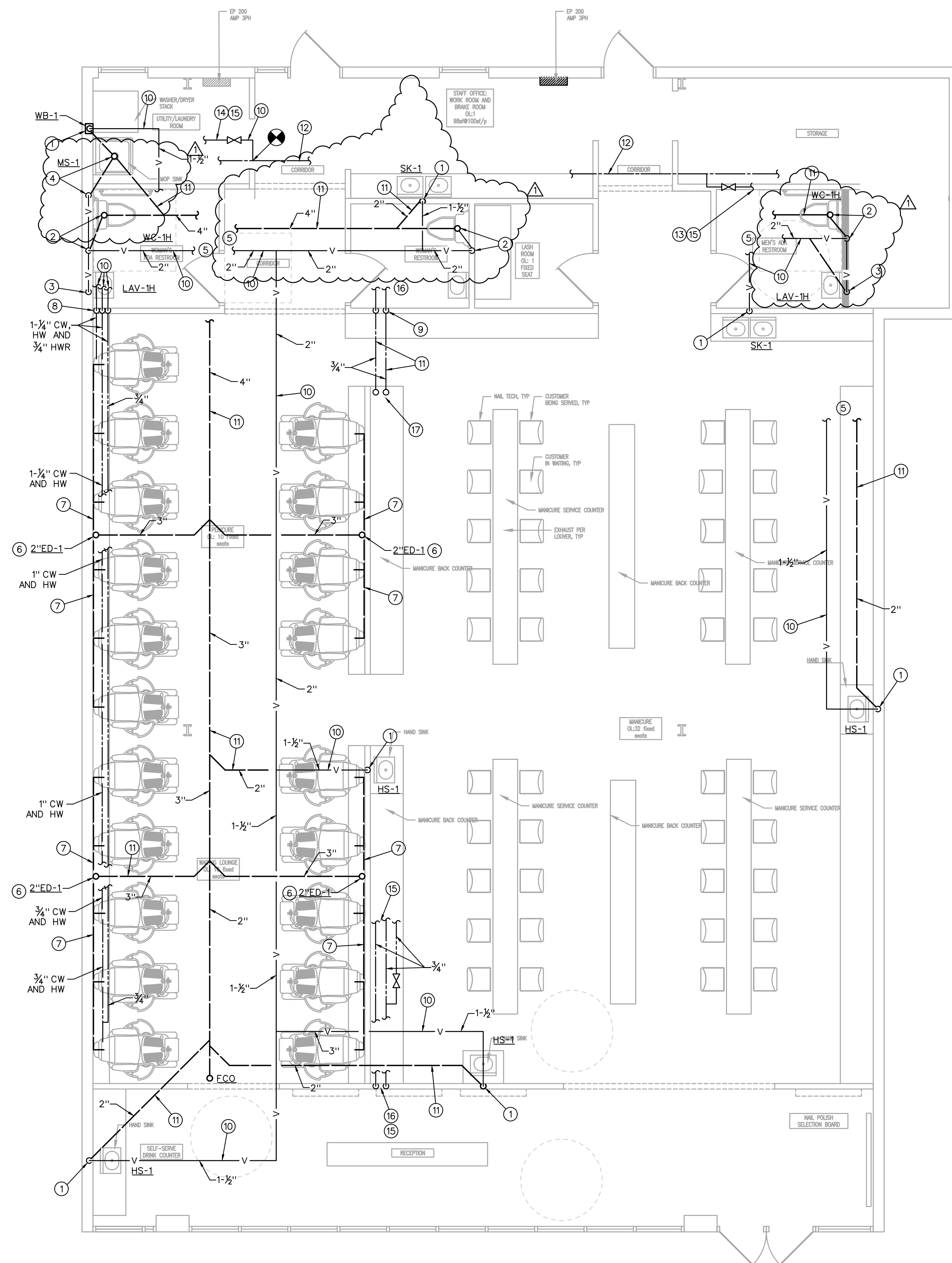
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LEE'S SUMMIT, MO

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Date:	Issued for:
09/25/23	PERMIT
10/29/23	 CITY COMMENTS
Project number:	
	23-211
Drawn:	
	JEE/SWB/GPG
Date:	
	2023/09/22
Sheet Number:	

P200

1. 2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
2. 4" S DOWN, 2" V OVER TO WALL AND UP TO ABOVE CEILING.
3. 2" W DOWN, 1-1/2" V UP AND OVER TO 2" V FROM WATER CLOSET.
4. 2" W DOWN, 2" V OVER TO WALL AND UP AND OVER TO 2" V FROM WATER CLOSET.
5. EXTEND NEW W, S OR V TO EXISTING OF SAME OR LARGER AND MAKE CONNECTION.
6. 2" W UP TO 2" ED-1.
7. COLLECT DRAINS FROM EACH PEDICURE CHAIR AND DAYLIGHT OVER EQUIPMENT DRAIN MAINTAINING CODE REQUIRED AIR GAP.
8. CW, HW AND HWR DOWN IN CHASE BEHIND PEDICURE CHAIRS.
9. CW AND HW DOWN IN WALL TO BELOW FLOOR.
10. PIPING ABOVE CEILING.
11. PIPING BELOW FLOOR.
12. EXISTING DOMESTIC CW PIPING.
13. EXISTING CW PIPING SERVING RESTROOM BEING REMOVED.
14. CONNECT NEW 1" CW TO EXISTING DOMESTIC CW PIPING.
15. SEE "DOMESTIC WATER SCHEMATIC", SHEET MP301, FOR CONTINUATION.
16. CW AND HW DOWN WALL TO CHASE BEHIND PEDICURE CHAIRS. EXTEND 1/2" CW AND HW TO EACH PEDICURE CHAIRS. EXTEND 1/2" CW AND HW TO EACH PEDICURE CHAIR.
17. CW AND HW UP THRU FLOOR TO CHASE BEHIND PEDICURE CHAIRS. EXTEND 1/2" CW AND HW TO EACH PEDICURE CHAIRS. EXTEND 1/2" CW AND HW TO EACH PEDICURE CHAIR.


$$\frac{1}{4}'' = 1'-0''$$


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U:\GEG PROJECTS\PROJECTS 23\23-211_LS SALON\23-211_LS SALON\23-211_M200_2023-10-29_MKS_24x36.DWG : 10/29/2023 3:30:23 PM : Malarie

OUTSIDE AIR SUMMARY (SINGLE ZONE SYSTEMS) (NOTES 2 & 3)

SYSTEM	SPACE	AREA (SQUARE FEET)	OCCUPANT TOTAL	VENTILATION RATE (CFM/PERSON)	AREA OUTDOOR AIRFLOW IN BREATHING ZONE (ft³) CFM/ft²	SPACE OUTDOOR AIRFLOW IN BREATHING ZONE (ft³) CFM/ft²	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) (NOTE 1)	ZONE OUTDOOR AIRFLOW (Vbz-Vbz/Ez) COOLING/HEATING (CFM)	ZONE OUTDOOR AIRFLOW (Vbz-Vbz/Ez) COOLING/HEATING (CFM)	ZONE OUTDOOR AIRFLOW (Vbz-Vbz/Ez) COOLING/HEATING (CFM)	ZONE OUTDOOR AIRFLOW (Vbz-Vbz/Ez) COOLING/HEATING (CFM)	EXHAUST REQUIRED (CFM) (NOTE 5)
FCU-3 (5-TON)	PEDICURE	1,111	28	20	0.12	693.32	1.0/0.8	693.32	866.65	867	867	867
	CORRIDOR/STAIR	93	0	5	0.06	5.58	1.0/0.8	5.58	6.98	7	7	210
	UNISEX BATHROOM 2	49	1	5	0.06	7.82	1.0/0.8	7.82	9.76	10	10	24
	WAX ROOM	47	1	5	0.06	9.14	1.0/0.8	9.14	11.43	12	12	35
	LAUNDRY ROOM	69	1	5	0.06	21.88	1.0/0.8	21.88	27.35	28	28	40
	WAITING LOUNGE N	198	2	5	0.06	21.88	1.0/0.8	21.88	27.35	28	28	40
	CLEAN ROOM	80	1	5	0.06	9.80	1.0/0.8	9.80	12.25	13	13	40
	TOTAL	1,647	29							884	884	900
FCU-2 (5-TON)	MANICURE	1,111	28	20	0.12	693.32	1.0/0.8	693.32	866.65	867	867	867
	CORRIDOR/STAIR	93	0	5	0.06	5.58	1.0/0.8	5.58	6.45	7	7	210
	UNISEX BATHROOM 2	49	1	5	0.06	7.76	1.0/0.8	7.76	9.70	10	10	23
	LASH ROOM	46	1	5	0.06	9.80	1.0/0.8	9.80	12.25	13	13	40
	CLEAN ROOM	80	1	5	0.06	21.88	1.0/0.8	21.88	27.35	28	28	40
	WAITING LOUNGE S	198	2	5	0.06	14.54	1.0/0.8	14.54	18.18	19	19	40
	LOUNGE	159	1	5	0.06		1.0/0.8					884
	TOTAL	1,729	29							884	884	900

1. ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) DETERMINED FROM TABLE 403.3.1.2 AND IS BASED ON AIR DISTRIBUTION CONFIGURATION IN ACCORDANCE WITH THE 2018 IMC.
2. CALCULATION DONE IN ACCORDANCE WITH 2018 IMC, CHAPTER 4.
3. VENTILATION AIR PROVIDED BY DIRECT CONNECTION TO THE OUTDOORS IN ACCORDANCE WITH SECTION 401, 2018 IMC.
4. BATHROOM MINIMUM EXHAUST AIR PROVIDED AT MINIMUM 70 CFM PER FIXTURE IN ACCORDANCE WITH CHAPTER 4, 2018 IMC.
5. SPACE EXHAUST REQUIRED AT THE INDICATED RATE.
6. BALANCE THE OUTSIDE AIR TO PROVIDE A MINIMUM OF 2,000 CFM TO OFFSET THE EXHAUST FROM THE MANICURE AND PEDICURE STATIONS.

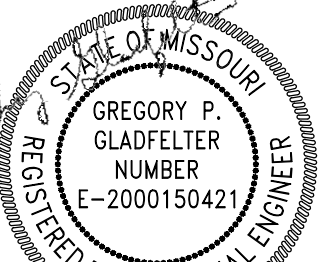
MECHANICAL FLOOR PLAN

1/4" = 1'-0"



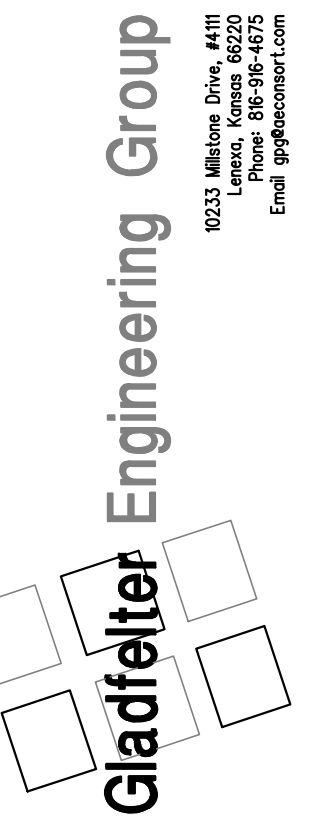
MECHANICAL PLAN NOTES

- 4"Ø EXHAUST DUCT UP THRU ROOF TO WP CAP.
- 12"x6" SHEET METAL DUCT DOWN TO 8"Ø PVC CONTINUING DOWN IN WALL TO BELOW FLOOR SLAB.
- 12"x6" SHEET METAL DUCT DOWN TO 8"Ø PVC CONTINUING DOWN IN WALL TO CHASE BEHIND PEDICURE CHAIRS. TURN OUT THRU WALL INTO CHASE.
- PVC DUCT UP THRU FLOOR TO BELOW MANICURE TABLES OR INTO CHASE BEHIND MANICURE CHAIRS. (SIZE AS INDICATED).
- EXISTING FAN-COIL UNIT WITH ELECTRIC HEAT (KW AS INDICATED).
- RELOCATE EXISTING CEILING DIFFUSER AND BALANCE TO CFM INDICATED.
- EXTEND 4"Ø EXHAUST DUCT TO EACH MANICURE TABLE OR PEDICURE CHAIR DUCT CONNECTION. SEE MANUFACTURER'S SUBMITTAL FOR EXHAUST DUCT CONNECTION. BALANCE EACH STATION TO 50 CFM.
- DUCTWORK BELOW FLOOR OR IN CHASE.
- DUCTWORK ABOVE CEILING.
- DUCTWORK BELOW MANICURE TABLES.
- CONNECT NEW SA DUCT TO EXISTING SA DUCT.
- EXISTING SA DUCTWORK.
- MODIFY EXISTING OA DUCT TO EXTEND 14"Ø OA DUCT THRU ROOF TO WEATHERPROOF OA INTAKE (REPLACING EXISTING 10"Ø OA DUCT). INSTALL BALANCE DAMPERS AND BALANCE TO 1000 CFM TO MATCH BUILDING EXHAUST.
- OPEN PLENUM RETURN. INSTALL SMOKE DETECTORS ON EACH AHU RA DUCT. SEE SPECIFICATION FOR ADDITIONAL DETAILS.



10/29/2023

LS SALON
1209 NE Rice Rd
LEE'S SUMMIT, MO



Date: 09/25/23
Issued for: PERMIT
10/29/23 CITY COMMENTS

Project number: 23-211

Drawn: JEE/SWB/GPG

Date: 2023/09/22

Sheet Number:

M200

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ON PLANS

DUCTWORK

DUCTWORK

ON PLANS

INSULATION OR LINING

DUCT INSULATION SCHEDULE							NOTES
	INTERNAL INSULATION			EXTERNAL INSULATION			
	1/2"	1"	OTHER	1"	2"	OTHER	
LOW VELOCITY DUCTS:							
RETURN DUCTS		o					1
SUPPLY DUCTS (RECT.)		o					
SUPPLY DUCTS (ROUND)					o		3,4
EXHAUST DUCTS	o			o			2
OUTSIDE AIR DUCTS				o			
RELIEF DUCTS	o						1
MEDIUM/HIGH VELOCITY DUCTS:							
ROUND SUPPLY				o			
FLAT OVAL SUPPLY				o			

NOTES:
1. INSULATION SHALL BE INSTALLED WHEN INDICATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. OTHERWISE, NO INSULATION IS REQUIRED.
2. INSULATION IS REQUIRED WITHIN 6'-0" OF TERMINATION POINT OF EXHAUST AIR. RECTANGULAR DUCTS SHALL BE LINED, ROUND DUCTS SHALL BE WRAPPED.
3. CONCEALED ROUND SUPPLY AIR DUCTS AND ROUND SUPPLY AIR DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED AS INDICATED AND SHALL INCLUDE A VAPOR BARRIER TO PREVENT CONDENSATION FROM FORMING ON COLD METAL SURFACES. NO INSULATION IS REQUIRED FOR ROUND SUPPLY AIR DUCT EXPOSED IN CONDITIONED SPACES UNLESS INDICATED OTHERWISE.
4. AT CONTRACTORS OPTION, GALVANIZED STEEL ROUND DOUBLE WALL DUCT MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DOUBLE WALL DUCT SHALL BE LINX LINDLAB SPIRO-SAFE SPIRAL LOCKSEAM DUCTWORK. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. AT CONTRACTOR'S OPTION, ROUND DUCT LINER MAY BE USED WHERE ROUND SUPPLY AIR DUCTS ARE REQUIRED TO BE INSULATED. DUCT LINER SHALL BE JOHNS MANVILLE SPIRACOUSTIC PLUS, OR APPROVED EQUAL, 1.5" THICK (R6.4). SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1

INSULATED OR LINED DUCT DETAIL

NO SCALE

METAL SCREEN FRAME

BOLT & NUT

PROVIDE ANGLE IRON REINFORCING WHERE REQUIRED FOR STIFFNESS, TACK WELD OR RIVETED

SCREEN

DUCT SIZE x 1.15 MIN.

1/2" SCREEN MESH

ROOFING

INSULATION

STANDARD CONSTRUCTION (SEAMS WATERTIGHT)

COUNTERFLASH & MAKE WATERTIGHT

WELDED GALVANIZED CURB CAP WITH FLANGED OPENING

ROOF CURB (BY MECH CONTRACTOR)

8" MIN

FLASHING BY GENERAL CONTRACTOR

DUCT SIZE AS INDICATED

2

GOOSENECK DETAIL

NO SCALE

NOTE: DELETE HEAT TRAP IF WATER HEATER HAS INTERNAL HEAT TRAP. EXTEND PIPE INSULATION 8' ON THE COLD WATER INLET PIPE FROM THE WATER HEATER PIPING CONNECTION.

SHUT-OFF VALVE (TYP)

"CW"

EXPANSION TANK, MOUNT HIGH

COLD WATER SUPPLY

COLD TRAP

TEMPERATURE AND PRESSURE RELIEF VALVE

DISCHARGE RUN FULL SIZE TO FUNNEL DRAIN

3/4" CW

HEAT TRAP

HOT WATER TO FIXTURES

UNION (TYP)

HEAT TRAP

DRAIN VALVE

DRAIN PAN

FLOOR

3

ELECTRIC WATER HEATER DETAIL

NO SCALE

TIE OFF TO ROOF STRUCTURE

METAL BAND SUPPORT

SUPPLY DUCT

NYLON DRAW BAND.

FLEX DUCT WITH 2" EXTERNAL INSULATION MAX. LENGTH 10'-0"

SPIN-IN TAP FITTING W/AIR SCOOP & DAMPER

LAY-IN SUPPLY AIR DIFFUSER W/ROUND NECK & O.B.D.

T-BAR TYPE SUSPENDED CEILING

4

SUPPLY AIR DIFFUSER DETAIL

NO SCALE

GALVANIZED SHEET METAL BOOT WITH 1" MINIMUM ACOUSTICAL DUCT LINER

HALF OF GRILLE DIMENSION

FULL GRILLE DIMENSION

HALF OF GRILLE DIMENSION

EQUAL

EQUAL

CEILING RETURN AIR GRILLE

5

RETURN GRILLE BOOT DETAIL

NO SCALE

1" MIN. ON TOP AND BOTTOM

MAIN DUCT

45°

SUPPLY AIRFLOW

SEAL ALL AROUND

ADJUSTABLE ELBOW RINGS

EQUAL TO REQ'D BRANCH DUCT DIA.

6

TYPICAL BRANCH TAKEOFF FITTING DETAIL

NO SCALE

1" MIN. ON TOP AND BOTTOM

MAIN DUCT

45°

1/4" BRANCH DUCT WIDTH, BUT MIN. 4"

EQUAL TO REQ'D BRANCH DUCT DIMENSIONS

SEAL ALL AROUND

DIFFUSER SCHEDULE					
MARK NO.	MANUFACTURER	MODEL NO.	FACE SIZE (INCHES)	MOUNTING	REMARKS
A	TITUS	TMS	24x24	LAY-IN	1,2,3
B	TITUS	TMS	12x12	SURFACE	1,2,3
C	TITUS	PAR	12x24	LAY-IN	2,4
D	TITUS	PAR	24x24	LAY-IN	2,4

- NOTES:
1. SEE THE PLANS FOR NECK SIZE.
2. COLOR PER ARCHITECT.
3. PROVIDE DAMPER AT DUCT TAKE-OFF EXCEPT PROVIDE GRILLE MOUNTED DAMPER WHERE OUTLET IS ABOVE INACCESSIBLE CEILING.
4. PROVIDE WITH DAMPER OR EXTRACTOR IF REQUIRED FOR BALANCING.

WATER HAMMER ARRESTOR SCHEDULE					
MARK NO.	MANUFACTURER	MODEL NO.	PDI UNIT RATING	FIXTURE UNIT CAPACITY	REMARKS
AA	SIoux CHIEF	660 SERIES	AA	4 (SINGLE FIXT)	X
A	SIoux CHIEF	652	A	1 - 11	X
B	SIoux CHIEF	653	B	12 - 32	X
C	SIoux CHIEF	654	C	33 - 60	X
D	SIoux CHIEF	655	D	61 - 113	X
X	X	X	X	X	X

- NOTES:
1. INSTALL IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH THE PLUMBING CODE.

FAN SCHEDULE											
MARK NO.	MANUFACTURER	MODEL NO.	CFM	ESP IN W.G.	TYPE	FAN SIZE	RPM	DRIVE	ACCESSORIES	ELECTRICAL	REMARKS
1	COOK	GC-144	100	0.25	CEILING	-	1100	D	X	120 1 60 98W	1
2	COOK	135C11ED	2000	0.5	ROOF	-	1550	D	X	120 1 60 1/2HP	2

- NOTES:
1. PROVIDE CEILING FANS WITH CEILING GRILLE, DISCONNECT SWITCH, HANGER HARDWARE, BACKDRAFT DAMPER, UNIT MOUNTED VARIABLE SPEED SWITCH, WALL OR ROOF CAP, FLEX CONNECTOR, SWITCH WITH LIGHTS.
2. PROVIDE ROOF FANS WITH DISCONNECT SWITCH, ROOF CURB, BACKDRAFT DAMPER, FLEX CONNECTOR, TIME CLOCK CONTROL.

WATER HEATER SCHEDULE (ELECTRIC)												
MARK NO.	MANUFACTURER	MODEL NO.	TYPE	ASME	TANK LINING	STORAGE (GALLONS)	RECOVERY GAL/HR	TEMP RISE °F	DISCH. SET POINT °F	ELECTRICAL	REMARKS	
1	LOCHINVAR	LETT-55 DAK	TK	N	GL	50	27	90	240	6.0 240 1 60	1	

- NOTES:
1. PROVIDE WITH ASME RATED P&T VALVE, DRAIN VALVE WITH HOSE THREAD OUTLET AND STAND AND/OR DRAIN PAN WHERE INDICATED.

PLUMBING FIXTURE SCHEDULE

- A. INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALLS/FLOORS. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED.
- B. WATER CLOSET (WC-IH), TOTO #CSC744SL01, FLOOR-MOUNTED, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS, 17" HIGH, 1.6-GALLON FLUSH, CLOSE-COUPLED TANK DESIGN WITH ELONGATED BOWL AND SIPHON JET ACTION. TANK SHALL BE VITREOUS CHINA WITH COVER, 3/8" FLEXIBLE RISER WITH LOOSE KEY ANGLE STOP VALVE, CHROME-PLATED BRASS TRIP LEVER AND MANUFACTURER'S BOLT CAPS. PROVIDE BENKE #527 WHITE ELONGATED OPEN FRONT SEAT LESS COVER, PERMA BUMPER.
- C. LAVATORY (LAV-IH), TOTO #LT307.4 (20"x18"), WALL-HUNG TYPE, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS. LAVATORY SHALL HAVE 4-INCH FAUCET CENTERS AND DRILLED FOR CONCEALED ARM CARRIER. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PROVIDE DELTA #523-WFOGHDF HEAVY DUTY SINGLE LEVER FAUCET, 4-INCH CENTERS, VANDAL-RESISTANT 2.2 GPM AERATOR, PERFORATED OFFSET GRID DRAIN (W/ 1-1/4" TAILPIECE) AND VANDAL-RESISTANT SINGLE LEVER HANDLE. PROVIDE WITH J.R. SMITH CARRIER (TO MATCH WALL TYPE). MOUNT AT ADA HEIGHT AND MAINTAIN CLEARANCES UNDER LAVATORY AS REQUIRED BY ADA REGULATIONS. INSULATE WASTE AND HOT WATER SUPPLY UNDER LAVATORY WITH UNDERSINK PROTECTIVE PIPE COVER, MOLDED, ANTIMICROBIAL, WITH FLUSH REUSABLE FASTENERS, TRUEBRO LAV GUARD.
- D. SINK (SK-2), JUST #SL-2217-A-GR, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF RIMMING, UNDERSIDE FULLY UNDERCOATED WITH SOUND DAMPENING MATERIAL, 3 HOLE PUNCH, NOMINAL DIMENSIONS OF 22"x17"x7-1/2" DEEP. PROVIDE WITH DELTA COMMERCIAL #27T2934 HEAVY DUTY DECKMOUNT SINK FAUCET, 6" RIGID/SWIVEL GOOSENECK SPOUT, 8" CENTERS, 2.0 GPM VANDAL-RESISTANT AERATOR, BASKET STRAINER DRAIN, 1-1/2" TAILPIECE, 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET 2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG, ESCUTCHEON W/SET SCREW AND 4" VANDAL-RESISTANT WRIST BLADE HANDLES.
- E. MOP SINK (MS-1), STERN WILLIAMS #SB-900, CONSTRUCTED OF TERRAZZO, 32" SQUARE BY 12" HIGH (COORDINATE SIZE WITH ARCHITECTURAL PLANS), CHROME-PLATED CAST BRASS DRAIN (CAST INTEGRAL) WITH STAINLESS STEEL CAP. PROVIDE WITH DELTA #28T2383 FAUCET WITH VACUUM BREAKER, LEVER HANDLES, 3/4" HOSE THREAD SPOUT WITH 48" LONG HOSE, WALL SUPPORT, INTEGRAL STOPS AND ROUGH CHROME-PLATED FINISH.
- F. WASHING MACHINE WALL BOX (WB-1), GUY GRAY MANUFACTURING #WB-200, RECESSED WALL MOUNTED, 16 GA. STEEL CONSTRUCTION WITH CORROSION RESISTANT EPOXY FINISH, 1/2" CW AND HW SUPPLIES WITH DUAL CLOSING BRASS QUARTER TURN SHUT-OFF HOSE BIBBS AND 2" DRAIN PIPE. MOUNT BOX 36" AFF.
- G. EQUIPMENT DRAINS (ED-1) WADE #1100-94 ADJUSTABLE CAST IRON FLOOR DRAIN WITH FLANGE, SEEPAGE OPENINGS, INTEGRAL CLAMPING COLLAR, EXTENSION ADAPTER INSTALLED ABOVE THE FLOOR ELEVATION APPROXIMATELY 3/4" TO PREVENT WATER ON THE FLOOR FROM ENTERING DRAIN AND 1/2" PLUGGED TRAP PRIMER CONNECTION. PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).
- H. SANITARY FLOOR SINKS: ES-1 WADE #9130-1-24-27-6 SQUARE PATTERN FLOOR SINK WITH CAST IRON BODY (12" X 12" X 6" DEEP), ACID RESISTING ENAMELED INTERIOR, SEDIMENT BUCKET, TRAP PRIMER CONNECTION AND 12" SQUARE NICKEL BRONZE FRAME AND GRATE. PROVIDE WITH SEPARATE DEEP SEAL "P" TRAP (SEE PLANS FOR SIZE).
- I. FINISHED FLOOR CLEANOUTS: (FFCO) WADE #6000-1-2-S CAST IRON FLOOR CLEANOUT WITH FLANGE, PLASTIC TAPERED PLUG AND SQUARE NICKEL BRONZE ADJUSTABLE TOP. PROVIDE WITH CARPET CLEANOUT MARKER WHEN CLEANOUT IS LOCATED BELOW CARPET. COORDINATE WITH ARCHITECTURAL PLANS.
- J. FINISHED WALL CLEANOUTS: (FWCO) WADE #8560, W/ 8304-85-6 CAST IRON CLEANOUT TEE WITH BRASS PLUG AND 6" ROUND STAINLESS STEEL ACCESS COVER. J.R. SMITH FIGURE 4530. PROVIDE DUCO CAST IRON WALL CLEANOUT TEE WITH COUNTERSUNK PLUG. DELETE COVER PLATE IF CLEANOUT IS IN EXPOSED LOCATION.
- K. ALL FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- L. PC TO ROUGH-IN AND MAKE FINAL CONNECTION TO OWNER PROVIDED EQUIPMENT. WHERE REQUIRED, PC TO PROVIDE DRAIN, TAILPIECE, 3/8-INCH FLEXIBLE RISERS W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/2-INCH INLET/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. SEE ARCHITECTURAL PLANS.

FIXTURE BRANCH SCHEDULE

FIXTURE	WASTE	VENT	COLD	HOT
Water Closet (ft)	4"	2"	1/2"	----
Water Closet (fv)	4"	2"	1"	----
Urinal	2"	1 1/2"	3/4"	----
Lavatory	1 1/2"	1 1/2"	1/2"	1/2"
Sink	2"	1 1/2"	1/2"	1/2"
Triple Sink	2"	1 1/2"	(2) 1/2"	(2) 1/2"
Shower, Tub	2"	1 1/2"	1/2"	1/2"
Water Fountain	1 1/2"	1 1/2"	1/2"	1/2"
Janitor Sink (fir)	3"	2"	3/4"	3/4"
Janitor Sink (wall)	2"	1 1/2"	1/2"	1/2"
Floor Drain	2"	1 1/2"	----	----
Floor Sink	3"	2"	----	----
Egpt Floor Drain	3"	2"	----	----
Hub Drain	2"	1 1/2"	----	----
Dishwasher	2"	1 1/2"	----	1/2"
Washer Box	2"	1 1/2"	1/2"	1/2"
Ice Maker	----	----	1/2"	----
FPWH, HB	----	----	3/4"	----

1. Minimum waste or vent size below slab on grade shall be 2".
2. Size as shown in drawings and diagrams, but not less than listed.

PLUMBING SYMBOLS

- EXISTING TO REMAIN.
- NEW PIPING WORK.
- DOMESTIC COLD WATER (CW).
- DOMESTIC HOT WATER (HW).
- HOT WATER RECIRCULATION (HWR).
- PLUMBING VENT ABOVE FLOOR (V).
- SANITARY WASTE ABOVE FLOOR (W).
- SANITARY WASTE BELOW FLOOR (W).
- GAS (NATURAL) (NG).
- ELBOW DOWN.
- ELBOW UP.
- TEE DOWN.
- TEE UP.
- CAP.
- PIPE UNION.
- 1/4 TURN SHUT-OFF VALVE.
- CHECK VALVE.
- PUMP
- VENT THRU ROOF (VTR).
- EXISTING TO REMAIN.
- PLAN NOTE DESIGNATION.
- PLAN REVISION DESIGNATION.
- CONNECT TO EXISTING.
- PLUMBING EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (HW, RTU, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

MECHANICAL SYMBOLS

- NEW SHEET METAL DUCTWORK & SIZE.
- NEW SHEET METAL DUCTWORK & SIZE.
- SUPPLY AIR DUCT OR OUTSIDE AIR INTAKE.
- RETURN AIR DUCT OR EXHAUST AIR DUCT.
- DIRECTION OF RETURN AIRFLOW.
- THERMOSTAT OR TEMPERATURE SENSOR.
- CONDENSATE DRAIN.
- ELBOW DOWN.
- ELBOW UP.
- SUPPLY AIR.
- OUTSIDE AIR.
- RETURN AIR.
- EXHAUST AIR.
- CONDENSING UNIT.
- EXHAUST FAN.
- ROOFTOP UNIT.
- PLAN NOTE DESIGNATION.
- PLAN REVISION DESIGNATION.
- CONNECT TO EXISTING.
- MECHANICAL EQUIPMENT DESIGNATION - TOP PORTION IS EQUIPMENT (RTU, EF, HP, ETC.), BOTTOM PORTION IS NO. OR LETTER (SEE APPROPRIATE SCHEDULE).

EXPANSION TANK SCHEDULE

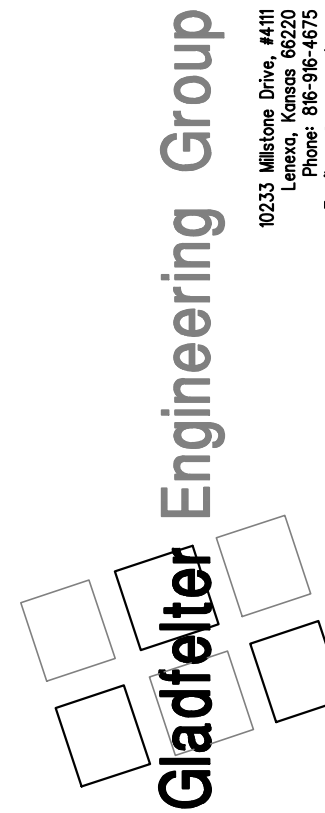
MARK NO.	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	CAPACITY (GAL)	ASME	MAX WORKING PRESSURE (PSIG)	MAX OPERATING TEMP (°F)	REMARKS
1	ELBI	DTS-45	-	-	2.1	N	150	210	1

- NOTES:
1. PROVIDE POLYPROPYLENE LINED BLADDER TYPE EXPANSION TANK WITH BUTYL RUBBER DIAPHRAGM, AIR CHARGE & SYSTEM CONNECTION FITTING, MOUNING HARDWARE.

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LEE'S SUMMIT, MO



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10/29/23	CITY COMMENTS

Project number:	23-211
Drawn:	JEE/SWB/GPG
Date:	2023/09/22
Sheet Number:	

MP300

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MAXIMUM CIRCUIT LENGTH SCHEDULE						
CIRCUIT AMPERES	WIRE SIZE	MAXIMUM CIRCUIT LENGTH IN FEET				
		2 WIRE, 1 PHASE		3 WIRE, 3 PHASE		
		120 V	240 V	277 V	208 V	480 V
20	#12	60	125	145	125	285
25	#10	80	160	180	160	365
30	#10	65	130	150	130	305
50	#6	95	195	225	195	450
60	#6	80	160	185	160	375
100	#3	95	195	225	195	450
125	#1	125	250	285	250	575
200	3/0	155	310	360	310	725
NOTES:						
1. ALL CONDUCTORS ARE SOLID COPPER. APPLICATION OF CONDUCTOR SIZE IS LIMITED TO CONDUCTORS WITH THE FOLLOWING INSULATION TYPES: FEPW, RH, RHW, THHW, THW, THWN, XHHW, AND USE. 75°C (167°F).						
2. CIRCUIT LENGTH IS THE ONE WAY DISTANCE FROM THE OVER CURRENT PROTECTION DEVICE TO THE POINT OF USE.						
3. IF THE INSTALLED CIRCUIT LENGTH EXCEEDS THE INDICATED MAXIMUM CIRCUIT LENGTH INDICATED, THEN THE CONDUCTORS SHALL BE INCREASED ONE NOMINAL WIRE SIZE.						

LIGHT FIXTURE SCHEDULE			
TYPE	MANUFACTURER	LAMP	VOLTS WATTS
A	6" ROUND CAN LIGHT FIXTURE SELECTED BY TENANT/ARCHITECT	LED	120 20
B	CHANDELIER LIGHT FIXTURE SELECTED BY TENANT/ARCHITECT	LED	120 80
EM	EXITRONIX #LED90	(2) LED HEADS WITH UNIT	120 10
EEM	EXITRONIX #MLED	WEATHERPROOF LED REMOTE	6 8
XEM	EXITRONIX #VLED-1-WH-EL90-R	RED LED AND (2) LED HEADS WITH UNIT	120 15
X	EXITRONIX #VEX-U-BP-WB-WH-120	RED LED WITH UNIT	120 5
X2	EXITRONIX #VEX-U/2-BP-WB-WH-120	RED LED WITH UNIT	120 5
NOTES: 1. TYPE 'X' AND/OR 'XEM' FIXTURES SHALL HAVE 12 WATTS OF REMOTE CAPACITY AND POWER TYPE 'EEM'.			

ELECTRICAL SYMBOLS

	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
	CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.
	GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.
	WALL MOUNTED JUNCTION BOX.
	CEILING MOUNTED JUNCTION BOX.
	PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.
	DISCONNECT SWITCH. SIZED AS NOTED.
	DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.
	SINGLE POLE SWITCH. *3'-10" AFF.
	DUPLEX RECEPTACLE. *1'-6" AFF OR AS NOTED.
	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
	DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. *1'-6" AFF OR AS NOTED.
	FOURPLEX RECEPTACLE. *1'-6" AFF OR AS NOTED.
	FOURPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
	HEAVY DUTY RECEPTACLE. VOLTAGE, PHASE AND AMPS AS NOTED. *1'-6" AFF OR AS NOTED.
	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. *1'-6" AFF OR AS NOTED.
	COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.
*3'-10"	HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.
WH-1	ELECTRIC WATER HEATER AND NUMBER.
EF-1	EXHAUST FAN AND NUMBER.
CU-1	CONDENSING UNIT AND NUMBER.
F-1	FURNACE AND NUMBER.
AFF	ABOVE FINISH FLOOR.
ETR	EXISTING TO REMAIN.
ER	EXISTING RELOCATED.
EC	ELECTRICAL CONTRACTOR.
EGC	EQUIPMENT GROUNDING CONDUCTOR.
GEC	GROUNDING ELECTRODE CONDUCTOR.
MBJ	MAIN BONDING JUMPER.

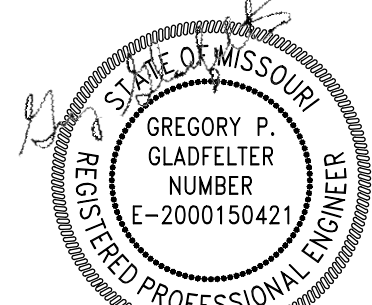
ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH BUILDING REPRESENTATIVE AND GENERAL CONTRACTOR.
- INSTALLATION SHALL COMPLY WITH LATEST EDITION OF N.E.C. AND LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT, EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
- MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE CONCEALED IN WALLS AND FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM LENGTH 6'-0"). CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER. MC CABLE SHALL NOT BE USED FOR HOMERUNS.
- INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
- TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.
- ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.
- ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS.
- CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
- VOICE/DATA SYSTEMS, ASSOCIATED WIRING, AND DEVICES TO BE PROVIDED BY OWNER.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.
- FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
- MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
- E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
- E.C. SHALL VERIFY ALL CONDITIONS PRIOR TO ANY ROUGH-IN.
- ALL CHANGES BY E.C. TO ITEMS SPECIFIED ON DRAWINGS MUST BE APPROVED IN WRITING BY ENGINEER/ARCHITECT OR OWNER AT LEAST (10) TEN DAYS PRIOR TO PROJECT BID DATE.
- E.C. SHALL PROVIDE AND INSTALL SMOKE AND FIRE STOPS AT ALL CONDUIT PENETRATIONS OF SMOKE AND FIRE-RATED WALLS AND CEILINGS.
- CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
- THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
- E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
- NEW PANELBOARDS SHALL BE ITE/SIEMENS TYPE 'P2', WITH BOLT-ON CIRCUIT BREAKERS, ALUMINUM BUS, NEMA 1 ENCLOSURE, GROUND, AND NEUTRAL BUS. AIC RATING TO MATCH EXISTING SYSTEM. EQUALS BY SQUARE 'D', G.E., OR CUTLER-HAMMER.

ELECTRIC SERVICE SINGLE LINE DIAGRAM IS EXISTING TO REMAIN.
NO MODIFICATIONS ARE BEING MADE TO THE SEQUENCE OF ELECTRICAL SERVICE DISTRIBUTION EQUIPMENT IN THIS SCOPE.

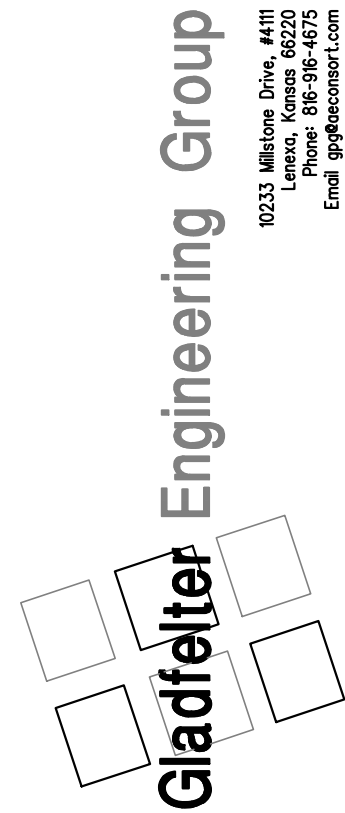
ELECTRICAL RISER DIAGRAM

NO SCALE



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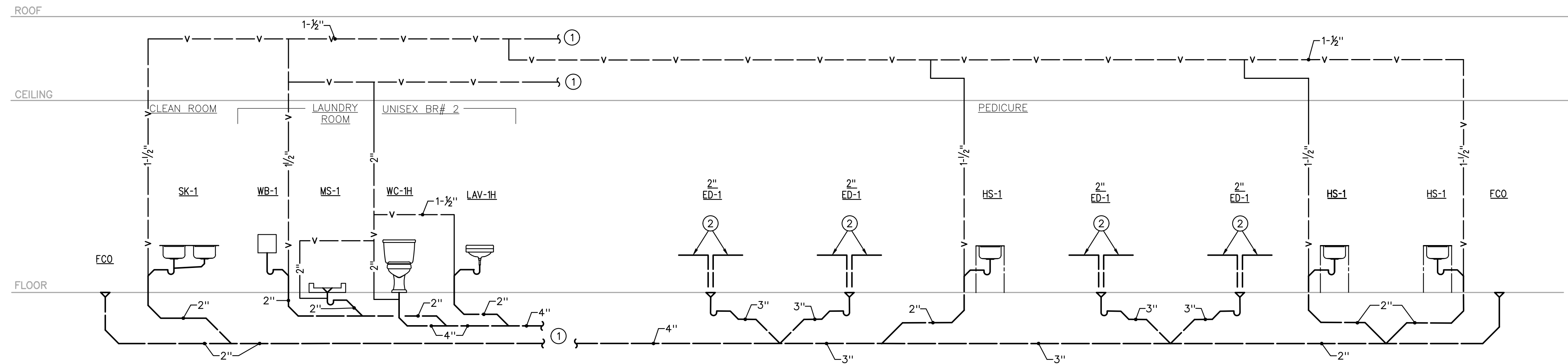


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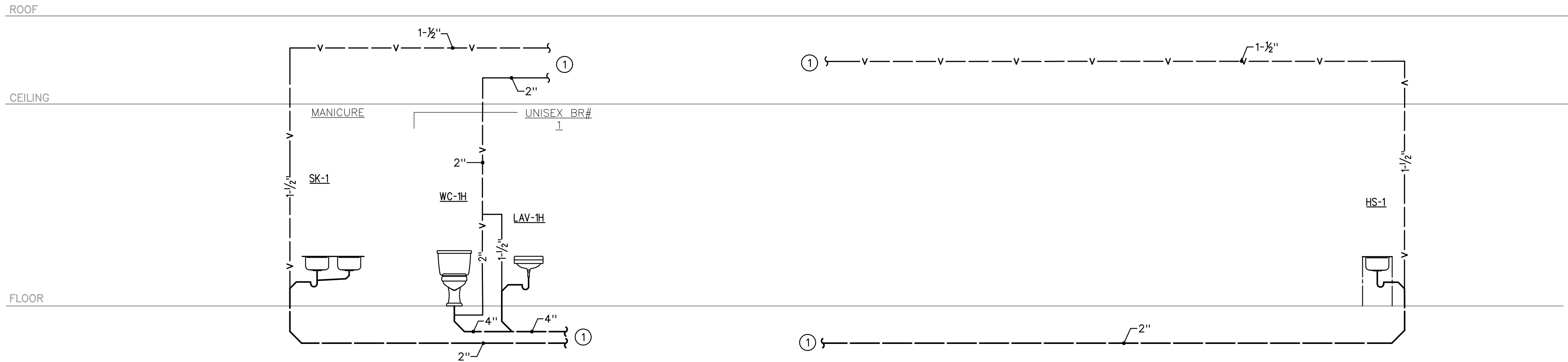
Project number:	23-211
Drawn:	JEE/SWB/GPG
Date:	2023/09/22
Sheet Number:	E300

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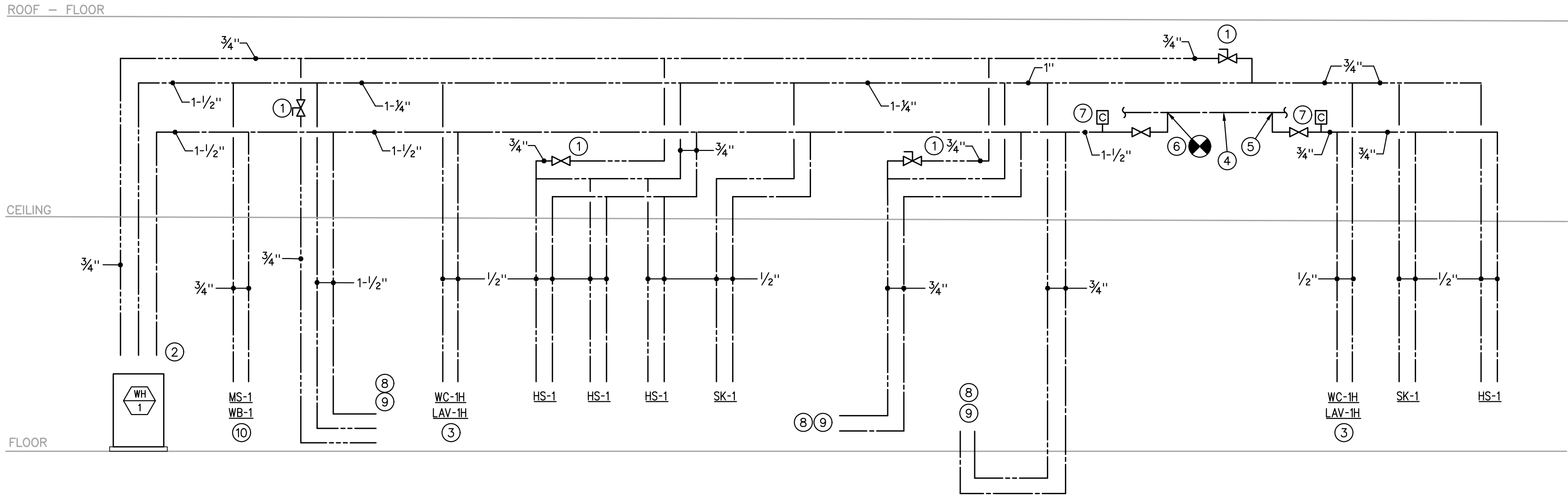
PLUMBING RISER #2
NO SCALE



PLUMBING RISER #1
NO SCALE

RISER DIAGRAM NOTES

- SEE THE PLUMBING FLOOR PLAN, SHEET P200, FOR CONTINUATION.
- COLLECT DRAINS FROM PEDICURE CHAIRS AND DAYLIGHT OVER EQUIPMENT DRAINS.



DOMESTIC WATER SCHEMATIC
NO SCALE

DOMESTIC WATER SCHEMATIC

- HWR BALANCE VALVE.
- SEE "ELECTRIC WATER HEATER DETAIL", SHEET MP300, FOR CONFIGURATION OF WATER PIPING AT WATER HEATER.
- EXTEND 1/2" CW AND HW TO LAV-1H, 1/2" CW TO WC-1H.
- EXISTING CW PIPING.
- EXISTING CW CONNECTION SERVING RESTROOM BEING REMOVED.
- CONNECT NEW CW PIPING TO EXISTING CW PIPING.
- INSTALL WATER HAMMER ARRESTOR IN IN AN ACCESSIBLE LOCATION.
- CW AND HW PIPING INTO CHASE BEHIND PEDICURE CHAIRS. SIZE AS INDICATED. EXTEND 1/2" CW AND HW TO EACH PEDICURE CHAIR.
- SEE PLUMBING FLOOR PLAN, SHEET P200, FOR CONTINUATION.
- EXTEND 1/2" CW AND HW TO WB-1 AND MS-1.

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Sheet Number:	

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MECHANICAL/PLUMBING SPECIFICATION

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL, PLUMBING AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. PLANS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE CODE WHERE CODE REQUIREMENTS ARE EXCEEDED.
3. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE GENERAL DESIGN CONCEPT. THEY DO NOT NECESSARILY INDICATE EACH AND EVERY FITTING OR FEATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT.
4. DRAWINGS SHOWING EXISTING CONDITIONS ARE BASED ON INFORMATION FURNISHED BY OTHERS. EXISTING BUILDING CONSTRUCTION & 'RECORD' DRAWINGS AND LIMITED SITE OBSERVATIONS. THEY ARE INTENDED TO INDICATE DESIGN CONCEPTS ONLY AND ARE NOT GUARANTEED TO BE 100% ACCURATE OR ALL INCLUSIVE NOR DO THEY NECESSARILY SHOW EACH AND EVERY FITTING AND DEVICE NOR ARE THEY GUARANTEED TO SHOW EACH AND EVERY ITEM REQUIRING REMOVAL AND/OR RELOCATION. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS AND HOW THEY MAY EFFECT THE PROSECUTION OF THE WORK OF THIS CONTRACT.
5. CONTRACTOR SHALL FULLY COOPERATE WITH THE GENERAL CONTRACTOR TO MAINTAIN THE SCHEDULE AND PHASING OF THE WORK. REFER TO ARCHITECTURAL AND DIVISION 1 SPECIFICATIONS.
6. 'FURNISHED' SHALL MEAN CONTRACTOR SHALL SUPPLY THE INDICATED ITEM. 'INSTALLED' SHALL MEAN CONTRACTOR SHALL PROVIDE LABOR TO PLACE THE ITEM IN SERVICE. 'PROVIDED' SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL THE ITEM.
7. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE MECHANICAL DRAWINGS. CONFORM TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS FOR EXACT PLACEMENT AND LOCATION OF EQUIPMENT AND FOR REQUIRED STRUCTURAL SUPPORT, BRACING AND REINFORCEMENT.
8. VERIFY ALL ACTUAL JOB CONDITIONS AND DETERMINE WHICH MAY AFFECT PROSECUTION OF THE WORK. COORDINATE WITH BUILDING STRUCTURE, EXISTING CONDITIONS AND ALL OTHER TRADES AS REQUIRED TO PROPERLY, NEATLY AND ORDERLY INSTALL ALL SYSTEMS WITHIN THE CONFINES OF THE SPACE AVAILABLE AND WITHOUT INTERFERENCES. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE PURCHASE OF EQUIPMENT AND COMMENCEMENT OF THE WORK. FAILURE TO DETERMINE ACTUAL CONDITIONS WILL NOT BE CONSIDERED GROUNDS FOR GRANTING ADDITIONAL COMPENSATION OR TIME.
10. FIELD VERIFY CLEARANCES IN ALL AREAS. CLEARANCES IN SOME AREAS MAY BE EXTREMELY LIMITED. ROUTE DUCTWORK AND PIPING AS SHOWN OR AS REQUIRED BY ACTUAL FIELD CONDITIONS. LOCATE IN JOIST OR TRUSS SPACE OR IN SOFFITS, AS ACTUAL JOB CONDITIONS REQUIRE. REPORT TO THE ARCHITECT ANY OBSERVED CONFLICT, DEFICIENCY OR PERCEIVED OBSTRUCTION PRIOR TO INSTALLATION. FIT OF ALL ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. VERIFY EXACT LOCATION, SIZE, CONDITION AND SERVICE OF EXISTING DUCTWORK, PIPING AND EQUIPMENT. DETERMINE SUITABILITY OF USE, CAPACITY AND CONNECTION PRIOR TO MAKING NEW CONNECTIONS. NOTIFY A/E OF ANY OBSERVED OR SUSPECTED DEFICIENCY.
12. COOLING EQUIPMENT LOCATED WHERE DAMAGE FROM OVERFLOW COULD OCCUR AND ELSEWHERE AS INDICATED, SHALL BE MOUNTED IN SECONDARY CONTAINMENT PANS WITH HIGH WATER ALARM SENSOR TO SHUT DOWN THE EQUIPMENT. THE DRAIN PAN SHALL BE PIPED TO FLOOR DRAIN, TO EXTERIOR OR ELSEWHERE AS SHOWN. MINIMUM SIZE SHALL BE 3/4".
13. VERIFY ALL EQUIPMENT TO BE INSTALLED (WHETHER FURNISHED BY THIS CONTRACTOR OR BY OTHERS). CONFIRM WITH VENDOR CONNECTION SIZES, TYPES AND LOCATION AND PROVIDE MATCHING DUCT AND/OR PIPING CONNECTIONS, SIZES AND TYPES AFTER EQUIPMENT PROCUREMENT. PROVIDE ALL FITTINGS AND ACCESSORIES FOR A COMPLETE CODE COMPLIANT WORKING INSTALLATION.
14. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
16. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS. MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.
17. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL INCLUDE AN ALLOWANCE FOR 1" DUCT LINER IN LOW VELOCITY DUCTS WHERE APPLICABLE.
18. DUCT RUNOUT SIZES NOT SHOWN SHALL BE THE SAME SIZE AS THE DIFFUSER NECK CONNECTION.
19. MOUNT DIFFUSERS IN LOCATIONS AS SHOWN. COORDINATE WITH CEILING GRID, LIGHTING, SPRINKLERS AND OTHER CEILING MOUNTED DEVICES. LIGHTING AND SPRINKLER HEAD PLACEMENT SHALL HAVE PRECEDENCE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN WHERE APPLICABLE.
20. CONTRACTOR SHALL INSURE THAT A PROPER RETURN AIR PATH EXISTS FROM EACH SPACE, WHERE NOT OTHERWISE INDICATED AND IN RETURN AIR PLENUM APPLICATIONS, PROVIDE FLANGED RETURN AIR OPENINGS ABOVE CEILING LEVEL, THRU WALLS TO STRUCTURE, SO THAT RETURN AIR VELOCITY AND PRESSURE DROP DOES NOT EXCEED 1000 FPM AND 0.065"WG/100' RESPECTIVELY.
21. PROVIDE FLEXIBLE FABRIC CONNECTORS AT ALL DUCTWORK CONNECTIONS TO ROTATING EQUIPMENT. CONNECTORS EXPOSED TO SUNLIGHT SHALL BE MADE OF UV RESISTANT MATERIAL.
22. ROUND OR OVAL EXPOSED DUCT SHALL BE SPIRAL DUCT, PAINT GRADE WHERE SCHEDULED BY ARCHITECT TO BE PAINTED.
23. FLEX DUCT SHALL BE UL CLASS 1 AIR DUCT SUITABLE FOR +/- 2" WG PRESSURE WITH 1-1/2" FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 5' MAXIMUM LENGTH, ENDS BANDIED IN PLACE AND TAPED WITH FOIL TAPE. ADEQUATELY SUPPORT FLEX DUCT TO PREVENT KINKS OR OBSTRUCTIONS. PROVIDE SHEET METAL ELBOW OR THERMAFLEX 'FLEXFLOW' ELBOW SUPPORT AT DIFFUSER CONNECTION.
24. ALL ROOF MOUNTING, FLASHINGS AND PENETRATION WORK ASSOCIATED WITH MECHANICAL AND PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE ROOFING MANUFACTURER'S WARRANTY REQUIREMENTS.
25. IN GENERAL, KEEP DUCTWORK AND PIPING HIGH AS POSSIBLE.
26. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND PER LISTINGS. PROVIDE MANUFACTURER'S RECOMMENDED OPERATING AND SERVICE CLEARANCES FOR ALL EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS AND DIFFERING CLEARANCE REQUIREMENTS OF ACTUAL EQUIPMENT FURNISHED.
27. SUPPORT ALL SUSPENDED EQUIPMENT, DUCTWORK AND PIPING INDEPENDENTLY, DIRECTLY (NOT METAL DECK) IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS TO PREVENT SAGS AND DIPS. PROVIDE STRUTS AND AND PIPE CLAMPS ON 8' CENTERS AND SUPPORT ALL PIPING RISERS AT BASE OF RISER. THE USE OG RISER CLAMPS TO SUPPORT VERTICAL PIPING IS PROHIBITED.
28. ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAIN VALVES AT LOW POINTS.
29. DO NOT RUN ANY PLUMBING SYSTEM PIPING THROUGH ELECTRICAL ROOMS, COMPUTER ROOMS OR TELEPHONE ROOMS.
30. PROVIDE ACCESS PANELS TO PROVIDE ACCESS TO INACCESSIBLE VALVES, DAMPERS ANY ANY OTHER EQUIPMENT/DEVICES THAT REQUIRE ADJUSTMENT OR REPLACEMENT.
31. DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.
32. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, COLUMN FOUNDATIONS AND OTHER STRUCTURAL CONDITIONS.
33. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
34. WHERE CHILLED CONDENSATE FROM INDOOR UNITS CANNOT BE POSITIVELY DRAINED, PROVIDE CONDENSATE PUMP ACCESSORY WITH THE EQUIPMENT.
35. TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAN SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1 1/20" MINIMUM IN DIRECTION OF FLOW.
36. CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
37. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
38. COLD CONDENSATE PIPING AND TRAPS SHALL BE TYPE 'M' COPPER WITH SOLDER OR MECHANICAL JOINTS OR PVC WHERE ALLOWED BY THE CODE. TRAP CONDENSATE FULL SIZE OF UNIT DISCHARGE AND TERMINATE AS SHOWN. COPPER CONDENSATE PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR 1/2" UNICELLULAR INSULATION, ALL JOINTS SEALED. ALL INSULATION SHALL BE 25/50 SMOKE AND FIRE RATED.
39. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS. EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.
40. ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' HARD COPPER WITH LEAD FREE SOLDER JOINTS.
41. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
42. DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.
43. PROVIDE PLUMBING FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. PROVIDE STOP VALVES AND WATER HAMMER ARRESTORS, SIZED AS INDICATED OR PER MANUFACTURER FOR EACH FIXTURE OR EACH GROUP OF FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
44. MEET ALL REQUIREMENTS OF THE ADA FOR ALL FIXTURES REQUIRED TO BE HANDICAP ACCESSIBLE. INSULATE PIPING BENEATH HANDICAP FIXTURES PER ADA, HANDI-LAV-GARD SYSTEM OR EQUIVALENT.
45. ALL POWER WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DISCONNECT SWITCHES AND MOTOR STARTERS SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. EXCEPT WHERE SPECIFICALLY INDICATED TO BE FURNISHED BY THE MECHANICAL CONTRACTOR, COORDINATE REQUIRED POWER FOR EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.
46. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE HVAC CONTRACTOR. SEE ELECTRICAL FOR INTEGRATION OF ALL SMOKE DETECTION AND SHUTDOWN OF EQUIPMENT. ALL HVAC EQUIPMENT IN EXCESS OF 2000 CFM SHALL BE EQUIPPED WITH SMOKE DETECTORS IN THE RETURN AIR STREAM OF THE UNIT, WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL HVAC UNITS (INCLUDING VAV BOX FANS OR OTHER FANS ASSOCIATED WITH THE PLENUM) SHALL BE PROVIDED WITH A SMOKE DETECTOR. WHERE DUCT MOUNTED DETECTORS ARE SHOWN OR REQUIRED, USE DUCT INSERTION TUBE TYPE DETECTOR. IF FIRE ALARM SYSTEM IS INSTALLED, COORDINATE TYPE OF SMOKE DETECTOR WITH THE FIRE ALARM CONTRACTOR. IF A FIRE ALARM SYSTEM IS NOT PROVIDED, COORDINATE INSTALLATION OF A STROBE/HORN WITH THE ELECTRICAL CONTRACTOR TO NOTIFY OCCUPANTS OF THE SENSING OF SMOKE AT A SMOKE DETECTOR.
47. ALL CONTROL DEVICES AND INTERLOCK WIRING SHALL THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. CONTRACTOR SHALL FURNISH LOCKING GUARDS FOR DEVICES WHERE INDICATED AND WHERE REQUIRED TO PROTECT THEM FROM PHYSICAL DAMAGE. PROVIDE INSULATED SUBBASES WHERE SENSORS ARE INSTALLED ON 'COLD' OR EXTERIOR WALLS. MOUNT CONTROL DEVICES SUCH AS THERMOSTATS AND SENSORS AT 46" AFF.
48. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT HANDLING AND TRANSPORT FOR ITEMS HE FURNISHES AND/OR INSTALLS. HE SHALL BE RESPONSIBLE FOR PROVIDING FOR ACCESS INTO SPACES WHERE WORK IS TO OCCUR.
49. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FLASHING AND REPAIR OF ROOFS, BUILDING STRUCTURE, COMPONENTS AND FINISHES ASSOCIATED WITH HIS WORK.
50. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. HE SHALL RESTORE REPAIRED OR REMODELED AREAS TO EXISTING CONDITIONS AND NEW CONSTRUCTION AREAS TO NEW CONDITION. ALL REPAIRS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL AND STRUCTURAL PROVISIONS. TO THE GREATEST EXTENT POSSIBLE, EXISTING BUILDING MATERIALS SHALL NOT BE DISTURBED.
51. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NO LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.
52. TEST AND BALANCE ALL SYSTEMS PER NEBB STANDARDS. SUBMIT CERTIFIED REPORTS TO ARCHITECT FOR APPROVAL.

ELECTRICAL SPECIFICATION

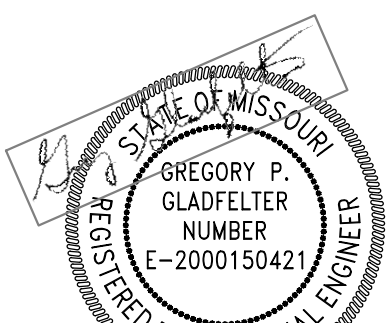
1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2017 EDITION OF NE., NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. PLANS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE CODE WHERE CODE REQUIREMENTS ARE EXCEEDED.
3. CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
5. CONTRACTOR SHALL FULLY COOPERATE WITH THE GENERAL CONTRACTOR TO MAINTAIN THE SCHEDULE AND PHASING OF THE WORK. REFER TO ARCHITECTURAL AND DIVISION 1 SPECIFICATIONS.
6. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK WITH ALL OTHER TRADES INVOLVED WITH CONSTRUCTION OF PROJECT.
7. DRAWINGS ARE DIAGRAMATIC AND ARE INTENDED TO INDICATE THE GENERAL DESIGN CONCEPT. THEY DO NOT NECESSARILY INDICATE EACH AND EVERY FITTING OR FEATURE. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT.
8. DRAWINGS SHOWING EXISTING CONDITIONS ARE BASED ON INFORMATION FURNISHED BY OTHERS. EXISTING BUILDING CONSTRUCTION & 'RECORD' DRAWINGS AND LIMITED SITE OBSERVATIONS. THEY ARE INTENDED TO INDICATE DESIGN CONCEPTS ONLY AND ARE NOT GUARANTEED TO BE 100% ACCURATE OR ALL INCLUSIVE NOR DO THEY NECESSARILY SHOW EACH AND EVERY FITTING AND DEVICE NOR ARE THEY GUARANTEED TO SHOW EACH AND EVERY ITEM REQUIRING REMOVAL AND/OR RELOCATION. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS AND HOW THEY MAY EFFECT THE PROSECUTION OF THE WORK OF THIS CONTRACT.
9. 'FURNISHED' SHALL MEAN CONTRACTOR SHALL SUPPLY THE INDICATED ITEM. 'INSTALLED' SHALL MEAN CONTRACTOR SHALL PROVIDE LABOR TO PLACE THE ITEM IN SERVICE. 'PROVIDED' SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL THE ITEM.
10. FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
11. MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
12. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE MECHANICAL DRAWINGS. CONFORM TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS FOR EXACT PLACEMENT AND LOCATION OF EQUIPMENT AND FOR REQUIRED STRUCTURAL SUPPORT, BRACING AND REINFORCEMENT.
13. VERIFY ALL ACTUAL JOB CONDITIONS AND DETERMINE WHICH MAY AFFECT PROSECUTION OF THE WORK. COORDINATE WITH BUILDING STRUCTURE, EXISTING CONDITIONS AND ALL OTHER TRADES AS REQUIRED TO PROPERLY, NEATLY AND ORDERLY INSTALL ALL SYSTEMS WITHIN THE CONFINES OF THE SPACE AVAILABLE AND WITHOUT INTERFERENCES. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE PURCHASE OF EQUIPMENT AND COMMENCEMENT OF THE WORK. FAILURE TO DETERMINE ACTUAL CONDITIONS WILL NOT BE CONSIDERED GROUNDS FOR GRANTING ADDITIONAL COMPENSATION OR TIME.
14. FIELD VERIFY CLEARANCES IN ALL AREAS. CLEARANCES IN SOME AREAS MAY BE EXTREMELY LIMITED. ROUTE CONDUIT AS SHOWN OR AS REQUIRED BY ACTUAL FIELD CONDITIONS. LOCATE IN JOIST OR TRUSS SPACE OR IN SOFFITS, AS ACTUAL JOB CONDITIONS REQUIRE. REPORT TO THE ARCHITECT ANY OBSERVED CONFLICT, DEFICIENCY OR PERCEIVED OBSTRUCTION PRIOR TO INSTALLATION. FIT OF ALL ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.
15. E.C. SHALL VERIFY ALL CONDITIONS PRIOR TO ANY ROUGH-IN.
16. E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
17. VERIFY EXACT LOCATION, SIZE, CONDITION AND SERVICE OF EXISTING CONDUIT, CONDUCTORS AND ELECTRICAL EQUIPMENT. DETERMINE SUITABILITY O USE, CAPACITY AND CONNECTION PRIOR TO MAKING NEW CONNECTIONS. NOTIFY A/E OF ANY OBSERVED OR SUSPECTED DEFICIENCY.
18. VERIFY ALL EQUIPMENT TO BE INSTALLED (WHETHER FURNISHED BY THIS CONTRACTOR OR BY OTHERS). CONFIRM WITH VENDOR CONNECTION SIZES, TYPES AND LOCATION AND PROVIDE MATCHING CONDUIT CONNECTIONS, SIZES AND TYPES AFTER EQUIPMENT PROCUREMENT. PROVIDE ALL FITTINGS AND ACCESSORIES FOR A COMPLETE CODE COMPLIANT WORKING INSTALLATION.
19. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS AND PER LISTINGS.
20. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO PROVIDE MANUFACTURER'S RECOMMENDED OPERATING AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
21. EC SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
22. COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT HANDLING AND TRANSPORT FOR ITEMS HE FURNISHES AND/OR INSTALLS. HE SHALL BE RESPONSIBLE FOR PROVIDING FOR ACCESS INTO SPACES WHERE WORK IS TO OCCUR.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FLASHING AND REPAIR OF ROOFS, BUILDING STRUCTURE, COMPONENTS AND FINISHES ASSOCIATED WITH HIS WORK.
25. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. HE SHALL RESTORE REPAIRED OR REMODELED AREAS TO EXISTING CONDITIONS AND NEW CONSTRUCTION AREAS TO NEW CONDITION. ALL REPAIRS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARCHITECTURAL AND STRUCTURAL PROVISIONS. TO THE GREATEST EXTENT POSSIBLE, EXISTING BUILDING MATERIALS SHALL NOT BE DISTURBED.
26. THE COMPONENTS OF THE ELECTRICAL SYSTEM SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE THEREOF EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP.
27. ALL WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
28. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF ALL CONDUITS TO NEW EQUIPMENT.
29. ALL NEW BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED ABOVE LAY-IN CEILING OR IN WALLS.
30. CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
31. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
32. ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED.
33. MC CABLE MAY BE INSTALLED WHERE PERMITTED BY CODE CONCEALED IN WALLS AND FOR CONNECTIONS TO LIGHT FIXTURES (MAXIMUM LENGTH 6'-0"). CONDUCTORS SHALL BE MINIMUM #12 GAUGE AND COPPER. MC CABLE SHALL NOT BE USED FOR HOMERUNS.
34. ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.
35. INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
36. DUCT SMOKE DETECTOR SHALL BE 120 VOLT, PHOTO-ELECTRIC WITH SAMPLING TUBES - INSTALLED IN RETURN AIR DUCT OF HVAC UNIT(S). PROVIDE WITH MIN-ALERT SOUNDER, STROBE AND REMOTE TEST/RESET STATION. WIRE DETECTORS SO THAT UPON SENSING SMOKE HVAC UNIT FAN(S) AUTOMATICALLY SHUTS DOWN AND SOUNDER/STROBE IS ACTIVATED. WHERE MULTIPLE HVAC UNIT FANS SHARE A COMMON RETURN AIR PLENUM (IN EXCESS OF 2,000 CFM COMBINED), ALL FANS SHALL AUTOMATICALLY SHUT DOWN UPON DETECTION OF SMOKE AT ANY SINGLE SMOKE DETECTOR (INCLUDING VAV BOX FANS OR OTHER FANS ASSOCIATED WITH THE PLENUM). PROVIDE ALL RELAYS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. EQUIPMENT SHALL BE BY EDWARDS, SIMPLEX, PYROTRONICS, OR NOTIFER.
37. NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARD SHALL MATE/MATCH PANEL CONSTRUCTION AND AIC RATING.
38. TYPEWRITTEN PANELBOARD DIRECTORY SHALL BE PROVIDED FOR PANELBOARD AND CORRECTLY FILLED OUT.
39. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.
40. PROVIDE LIGHT FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
41. ALL LIGHT FIXTURES AND DEVICES MOUNTED IN CEILING SHALL BE BRACED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC, NEC, AND LOCAL AUTHORITY HAVING JURISDICTION.
42. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE PROVIDED WITH BATTERY BACK-UP FOR MINIMUM OF (90) MINUTES. EMERGENCY AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO HOT LEG OF CIRCUIT, NOT SWITCHED.
43. VOICE/DATA AND THERMOSTAT OUTLET BOXES SHALL BE PROVIDED AND INSTALLED WITH 3/4" CONDUIT STUBBED UP OUT TOP OF BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING ON END OF CONDUIT.
44. VOICE/DATA SYSTEMS, ASSOCIATED WIRING, AND DEVICES TO BE PROVIDED BY OWNER.

FIRE SPRINKLER SPECIFICATION NOTES

1. FIRE SUPPRESSION SYSTEM ADDITIONS TO THE TENANT SPACE FOR THIS FACILITY SHALL BE DESIGN/BUILD. SUCCESSFUL FIRE SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE FIRE SUPPRESSION SYSTEM DOCUMENTS INCLUDING DRAWINGS, DETAILS AND SPECIFICATION DATA SHEETS SEALED BY A LICENSED ENGINEER FOR REVIEW AND SUBMISSION TO THE CITY FOR PERMIT. INSTALLATION SHALL COMPLY WITH NFPA, ALL LOCAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION.
2. EXISTING BUILDING IS ENTIRELY FIRE SPRINKLEED. MODIFY/ADD/EXTEND HEADS AND ASSOCIATED PIPING AS REQUIRED BY NEW SPACE LAYOUT IN NEW/REMODELED/RENOVATED AREAS TO PROVIDE SPRINKLER COVERAGE IN ALL AREAS. CONTRACTOR TO UPDATE/PERFORM HYDRAULIC CALCULATIONS TO VERIFY PERFORMANCE FOR MODIFIED/EXPANDED SPRINKLER SYSTEM. ALL NEW HEADS AND OTHER DEVICES TO MATCH EXISTING IN STYLE AND FINISH.
3. ALL FIRE PROTECTION SYSTEM VALVES, FITTINGS AND OTHER COMPONENTS SHALL BE UL AND FM LISTED FOR FIRE SERVICE.

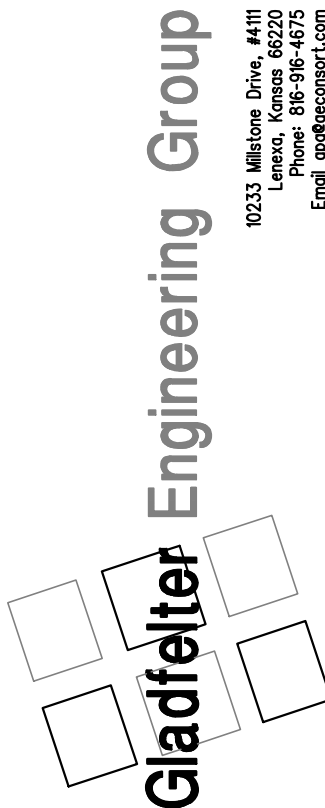
ABOVE GROUND FIRE PROTECTION PIPING SHALL BE SCHEDULE 40 BLACK STEEL, WELDED, ROLL OR CUT GROOVE OR SCREWED JOINTS. AT CONTRACTOR OPTION, SCHEDULE 10 ROLL GROOVE OR ALLIED XL PIPING MAY BE USED.
4. WHERE PERMITTED, SPRINKLER PIPING UP THRU 3" SIZE MAY BE SCHEDULE 40 OR SCHEDULE 80 CPVC PIPING WITH SOLVENT CEMENT OR SCREWED JOINTS (WET SYSTEMS ONLY).

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10/29/2023

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LEE'S SUMMIT, MO



Date:	Issued for:
09/25/23	PERMIT
10/29/23	△ CITY COMMENTS
Project number:	23-211
Drawn:	JEE/SWB/GPG
Date:	2023/09/22
Sheet Number:	

MP400