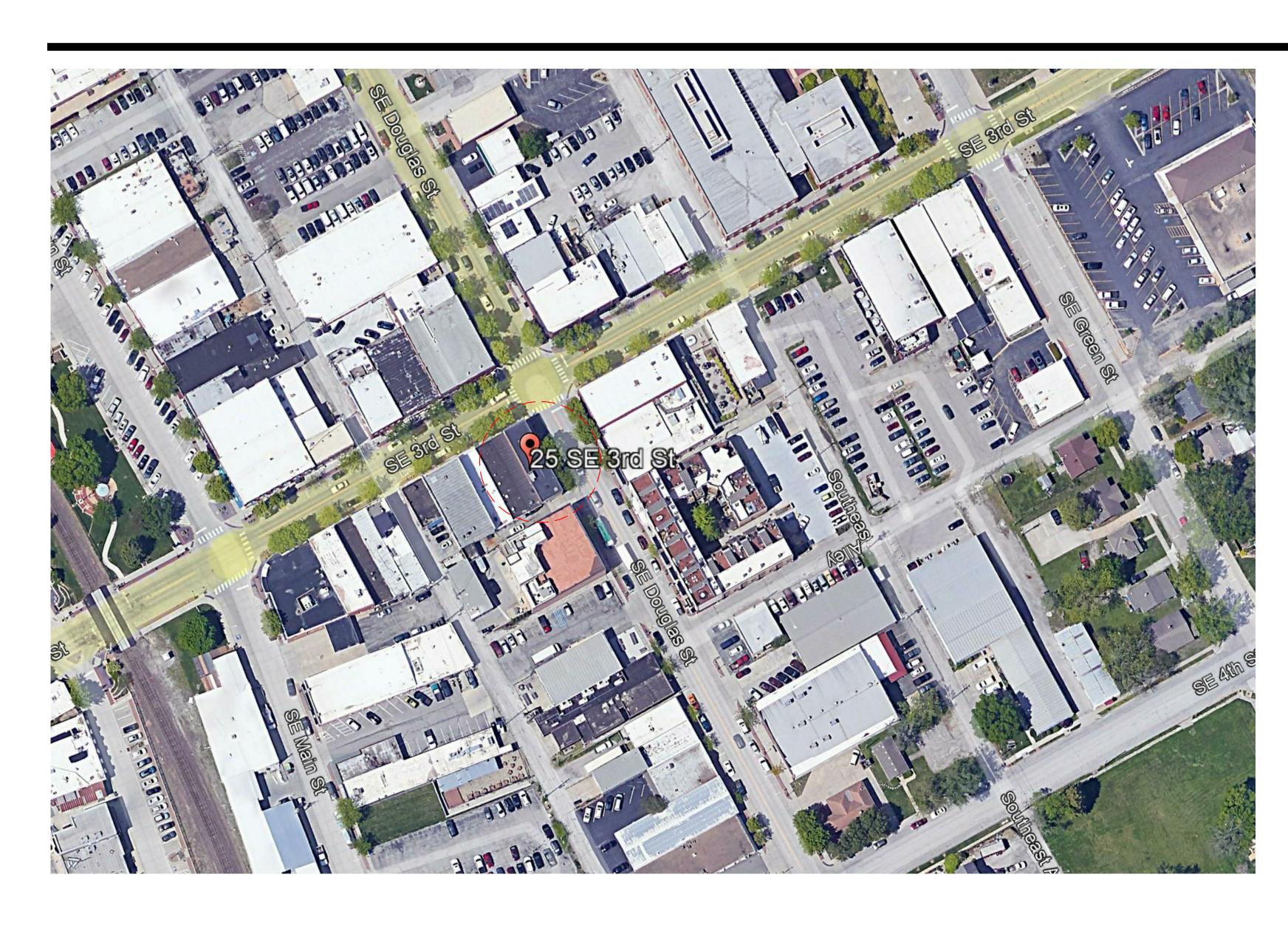
LIBATIONS & COMPANY

25 SE 3RD STREET LEE'S SUMMIT, 64063

PERMIT SET

16 FEB 2022

COLLINS WEBB #: 21051



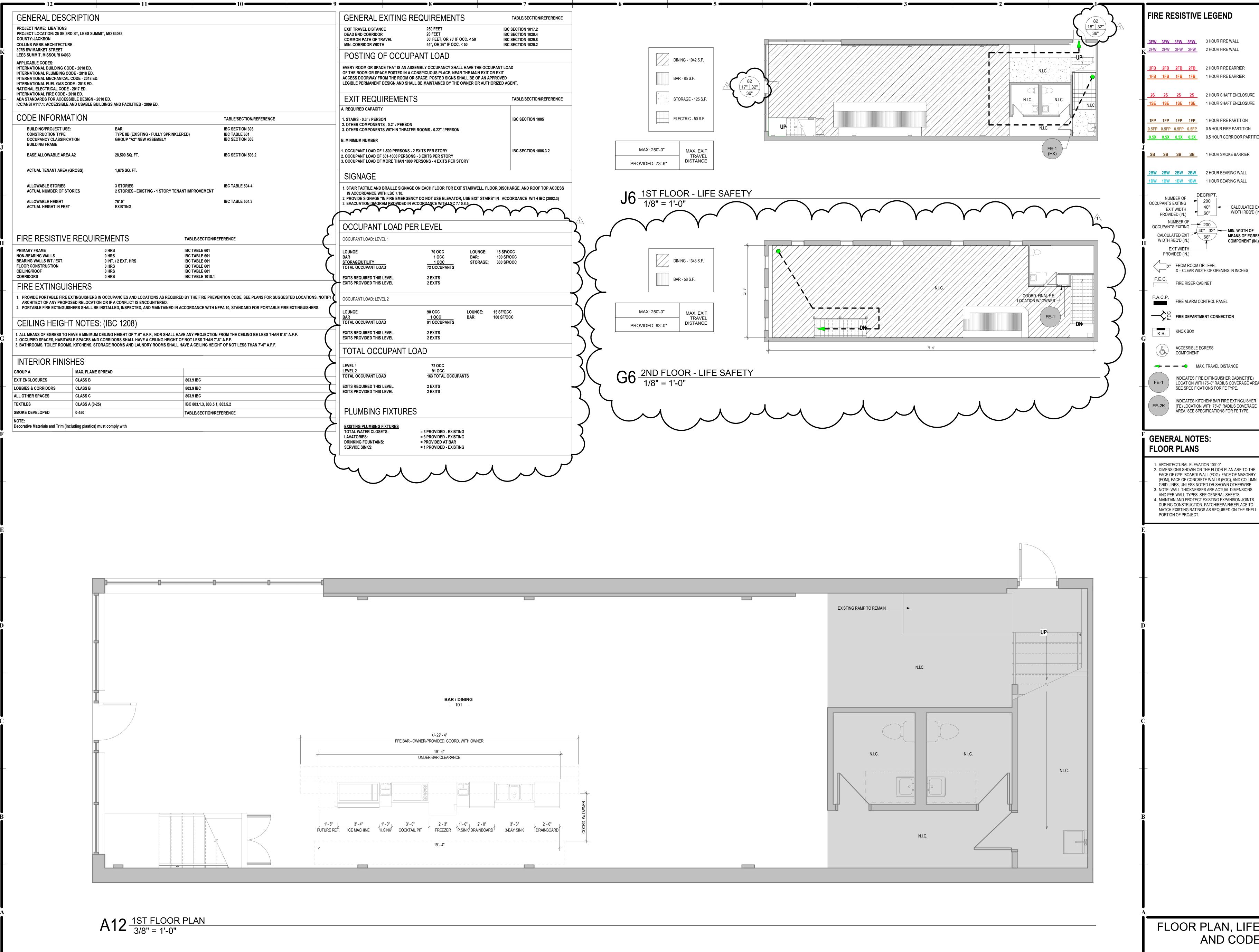
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E100	ELECTRICAL SPECIFICATIONS AND SYMBOLS
E101	ELECTRICAL PLANS



OWNER

LIBATIONS & COMPANY 23 SE 3RD STREET LEE'S SUMMIT, MISSOURI 64063 P: 816.729.1563 ARCHITECT

COLLINS | WEBB ARCHITECTURE 307B SW MARKET STREET LEE'S SUMMIT, MISSOURI 64063 P: 816.249.2270 www.collinsandwebb.com



FIRE RESISTIVE LEGEND 3FW 3FW 3FW 3FW 3 HOUR FIRE WALL ZFW 2FW 2FW 2FW 2 HOUR FIRE WALL **2FB 2FB 2FB 2FB** 2 HOUR FIRE BARRIER 1FB 1FB 1FB 1FB 1 HOUR FIRE BARRIER 2S 2S 2S 2 2S 2 HOUR SHAFT ENCLOSURE 1SE 1SE 1SE 1SE 1 HOUR SHAFT ENCLOSURE 1FP 1FP 1FP 1FP 1 HOUR FIRE PARTITION 0.5FP 0.5FP 0.5FP 0.5FP 0.5FP 0.5 HOUR FIRE PARTITION 0.5X 0.5X 0.5X 0.5X 0.5X 0.5 HOUR CORRIDOR PARTITION SB SB SB SB 1 HOUR SMOKE BARRIER 2BW 2BW 2BW 2BW 2 HOUR BEARING WALL BW 1BW 1BW 1BW 1 HOUR BEARING WALL NUMBER OF OCCUPANTS EXITING 200 EXIT WIDTH PROVIDED (IN.)

40"

CALCULATED EXIT WIDTH REQ'D (IN.) NUMBER OF OCCUPANTS EXITING 200 CALCULATED EXIT **MEANS OF EGRESS** WIDTH REQ'D (IN.) COMPONENT (IN.) EXIT WIDTH — PROVIDED (IN.)

GENERAL NOTES: FLOOR PLANS

> 1. ARCHITECTURAL ELEVATION 100'-0" 2. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE. 3. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES. SEE GENERAL SHEETS. 4. MAINTAIN AND PROTECT EXISTING EXPANSION JOINTS DURING CONSTRUCTION. PATCH/REPAIR/REPLACE TO MATCH EXISTING RATINGS AS REQUIRED ON THE SHELL PORTION OF PROJECT.

FIRE ALARM CONTROL PANEL

KNOX BOX

ACCESSIBLE EGRESS

INDICATES FIRE EXTINGUISHER CABINET(FE)

SEE SPECIFICATIONS FOR FE TYPE.

LOCATION WITH 75'-0" RADIUS COVERAGE AREA.

INDICATES KITCHEN/ BAR FIRE EXTINGUISHER

ARÉA. SEE SPECIFICATIONS FOR FE TYPE.

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1 City Comments 03/01/2022



FLOOR PLAN, LIFE SAFETY PLAN, AND CODE INFORMATION

PLUMBING SPECIFICATIONS PLUMBING SYMBOLS A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF WORK. <u>SYMBOL</u> <u>DESCRIPTION</u> CONTRACTION AND TO ACCOMMODATE PIPE INSULATION. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND A. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF INTERIOR PARTITIONS: 16 GAUGE GALVANIZED STEEL, PACK BETWEEN PIPE AND SLEEVE WITH FIRE PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY SANITARY SEWER (ABOVE GRADE) -----SS-----THE PLUMBING AND MECHANICAL SYSTEMS OUTLINED. SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT. NOT BE SPECIFICALLY CALLED OUT IN THIS B. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATIONS OF COMPLIANCE OR 3. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF PORTION OF THE CONSTRUCTION DOCUMENTS. ———SS——— SANITARY SEWER (BELOW GRADE) SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF APPROVAL AS REQUIRED BY AUTHORITIES. NOTIFY ARCHITECT. ENGINEER AND/OR OWNER OF C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND CONFLICTS OR DISCREPANCIES PRIOR TO 4. PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE. CONDENSATE DRAIN _____CD____ SUBMISSION OF BID. D. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK. CONTRACTOR TO MAINTAIN THE EXISTING ROOF WARRANTY. ALL PLUMBING VENT TERMINALS SHALL E. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, TERMINATE A MINIMUM OF 12" ABOVE ROOF OR EQUAL TO HEIGHT OF PARAPET, WHICHEVER IS VENT PIPING _____V____ B. COORDINATE INSTALLATION OF PLUMBING SYSTEMS OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED GRFATFR. WITH OTHER TRADES TO ENSURE A NEAT AND F. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPE ENTERING FINISHED AREAS. TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL G = GAS PIPING LESS THAN 2 PSI ORDERLY INSTALLATION AND AVOID CONFLICTS. ACCEPTANCE. INSTALL PIPING AS TIGHT TO STRUCTURE AS F. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS POSSIBLE. COORDINATE INSTALLATION OF PIPING MPG = GAS PIPING 5 PSI _____MPG-____ NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING A. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A FLAME TO AVOID CONFLICTS WITH ELECTRICAL PANELS, WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE SPREAD RATING OF NOT OVER 25. A FUEL CONTRIBUTION RATING OF NOT OVER 50. AND A SMOKE LIGHTING FIXTURES, ETC. VERIFY SPACE DEVELOPMENT RATING OF NOT OVER 50, IN ACCORDANCE WITH NFPA. GAS PIPE ON ROOF, G OR MPG AVAILABLE ABOVE ALL CEILINGS PRIOR TO ANY G. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECT FOR A PERIOD OF ONE B. PIPE INSULATION (ABOVE GRADE): FABRICATION OF INSTALLATION. YEAR FROM FINAL ACCEPTANCE. 1. THE PIPE INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU PER COLD WATER PIPING _____CW____ H. INSPECTION OF THE SITE: THIS CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MEP IN/HR*SQ-FT*°F OR LESS. . NEW PIPING IS SHOWN AT APPROXIMATE DRAWINGS, SPECIFICATIONS, DETAIL, AND THE SITE. THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT OF 2. FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED HOT WATER PIPING -----HW------LOCATIONS. FIELD MEASURE FINAL PIPING ANY SPECIAL OR UNUSUAL PROBLEMS, CONFLICTS, OR OBSTRUCTIONS THAT AFFECT HIS BID. PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING LOCATIONS PRIOR TO FABRICATION AND MAKE I. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE MECHANICAL AND PLUMBING DRAWINGS ARE COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ADJUSTMENTS AS REQUIRED TO FIT PIPING WITHIN PIPE ELBOW DOWN ESSENTIALLY DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS AND FITTINGS REQUIRED FOR $\overline{}$ FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE THE AVAILABLE SPACE. VERIFY THAT FINAL INSTALLATION. DO NOT SCALE DRAWINGS. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP EQUIPMENT LOCATIONS MEET MANUFACTURER'S SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA AS INDICATED PIPE ELBOW UP ARMAFLEX OR ARMAFLEX 2000. RECOMMENDATIONS REGARDING SERVICE ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE MECHANICAL WORK INTERFACES WITH 4. INSULATION SCHEDULE: CLEARANCE AROUND EQUIPMENT. OTHER TRADES. GATE VALVE a. DOMESTIC COLD WATER: J. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS OR WITH D. EXACT LOCATION AND ELEVATIONS OF ALL b. DOMESTIC HOT WATER: CODE REQUIREMENTS, THE NOTE OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO BACKFLOW PREVENTER JOB OR HIGHER STANDARD SHALL PREVAIL ANY INSTALLATION OR CONNECTIONS THEREOF. 6. TESTING, BALANCING AND CLEANING K. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED A. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH BALL VALVE PROVIDE SHIELDED ADAPTOR COUPLINGS FOR COVERED WITH INSULATION. UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY CONNECTIONS OF PVC DWV TO CAST IRON B. SEWER AND VENT PIPING SHALL BE HYDROSTATICALLY TESTED WITH NO LESS THAN 10 FEET OF HEAD WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR STRAINER SANITARY, WASTE AND VENT PIPE. FOR A PERIOD OF NOT LESS THAN 15 MINUTES, PER THE LOCAL PLUMBING CODE, WITH NO LEAKS. C. DOMESTIC WATER PIPING SHALL BE HYDROSTATICALLY TESTED AT A PRESSURE OF NOT LESS THAN . INCLUDE ALL BASIC MATERIALS AND CONSTRUCTION METHODS INCLUDING PIPES, PIPE FITTINGS, AND F. REFER TO PLUMBING FIXTURE SCHEDULE FOR PRESSURE REDUCING VALVE 1-1/2 TIMES THE OPERATING PRESSURE, BUT NOT LESS THAN 60 PSI, FOR A PERIOD OF NOT LESS SPECIALTIES AND SUPPORTING DEVICES, VALVES, PIPE AND VALVE IDENTIFICATION, PUMPS, VIBRATION MINIMUM BRANCH WASTE AND VENT PIPE SIZING. THAN 2 HOURS, WITH NO LEAKS. D. THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO M. FURNISH ADEQUATE ACCESS PANELS AND DOORS TO ALLOW FOR FUTURE PIPING ALTERATIONS, PLUG VALVE G. SAWCUT EXISTING FLOOR AS REQUIRED FOR REPLACEMENT, AND MAINTENANCE OF PIPING. PROPERLY IDENTIFY ALL ACCESS PANELS AND DOORS. PERFORMANCE OF ALL TESTS SO THAT THEY TESTS MAY BE WITNESSED IF DEEMED NECESSARY. INSTALLATION OF NEW UNDERFLOOR PIPING. CONTROL VALVE PATCH FLOOR TO MATCH EXISTING. 7. REMODELING WORK: 2. MANUFACTURERS: A. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE A. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY FLOOR CLEANOUT (FCO) H. EXISTING SANITARY SEWER SHOWN AT INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE APPROXIMATE LOCATION FROM BEST AVAILABLE LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE INFORMATION. PLUMBING CONTRACTOR SHALL CLEANOUT AT GRADE (GCO) ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN. CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL INCLUDE WORK REQUIRED TO CAMERA AND EXAMINATION OF THE EXISTING BUILDING CONDITIONS. LOCATE SEWER LINES PRIOR TO START OF WORK. WALL CLEANOUT (WCO) B. CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE CONTRACT FIELD VERIFY EXACT LOCATION AND ADEQUATE A. PROVIDE AN APPROVED WATER HAMMER ARRESTOR FOR EACH PLUMBING FIXTURE SUPPLY AS DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING INVERT ELEVATION FOR CONNECTION OF NEW REQUIRED BY FIXTURE MANUFACTURER. CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE FLOOR DRAIN SEWER LINES. B. ALL EXPOSED PIPE IN FINISHED AREAS SHALL BE CHROME PLATED BRASS PIPE, NO FERROUS PIPE. ARCHITECT AND INCLUDE IN THE BID ALL COSTS REQUIRED TO MAKE THE WORK MEET EXISTING C. PROVIDE CLEANOUTS AT EACH CHANGE IN DIRECTION AND AT 100 FOOT INTERVALS IN STRAIGHT RUNS. FLOOR SINK D. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND TRAPS. C. DEMOLITION: DISCONNECT, DEMOLISH, AND REMOVE ABANDONED MECHANICAL AND PLUMBING E. CLEANOUTS: MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR CAPPED PIPE 1. VINYL TILE FLOOR (FCO): JR SMITH #4140, OR EQUAL. QUARRY TILE FLOOR (FCO): JR SMITH #4200, OR EQUAL. D. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS HOSE BIB 3. CARPETED FLOOR (FCO): JR SMITH #4020-Y, OR EQUAL. AND EQUIPMENT NOT INDICATED TO BE SALVAGED. 4. UNFINISHED FLOOR (FCO): JR SMITH #4020, OR EQUAL. E. 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 5. WALL (WCO): JR SMITH #4472, OR EQUAL, 24" ABOVE THE FLOOR. I ABBREVIATIONS PROTECTION AND BARRIERS AFTER REMODELING OPERATIONS ARE COMPLETE. 6. GRADE (GCO): JR SMITH #4256, OR EQUAL, WITH HEAVY DUTY CAST IRON BODY AND COVER. F. REMOVE ALL PIPING TO BE DEMOLISHED BACK TO PIPE MAIN OR EDGE OF PROJECT AREA AND CAP F. ALL SEWER PIPING LOCATED INSIDE THE BUILDING SHALL BE INSTALLED WITH THE FOLLOWING SLOPES. AFF ABOVE FINISHED FLOOR kW KILOWATT 1. INSTALL 2-1/2" AND SMALLER PIPE AT 1/4" PER FOOT FALL. AFG ABOVE FINISHED GRADE MAX MAXIMUM G. PIPING AND DUCTS EMBEDDED IN FLOORS. WALLS. AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO BFF BELOW FINISHED FLOOR 2. INSTALL 3" AND LARGER PIPE AT 1/8" PER FOOT FALL. MBH 1000 BTU PER HOUR NOT INTERFERE WITH NEW INSTALLATIONS. PIPING AND DUCTS TO REMAIN SHALL BE APPROVED BY THE G. PROVIDE DIELECTRIC UNIONS WITH APPROPRIATE END CONNECTION TO MATCH THE PIPE SYSTEM IN BFG BELOW FINISHED GRADE MIN MINIMUM ARCHITECT. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. DRAIN AND CAP PIPING AND DUCTS WHICH INSTALLED (SCREWED, SOLDERED, OR FLANGED). PROVIDE DIELECTRIC UNIONS ON ALL PIPING BOP BOTTOM OF PIPE ORD OVERFLOW ROOF DRAIN ALLOWED TO REMAIN ABOVE CEILING OR BELOW FLOOR, CONCEALED FROM VIEW, EXCEPT AS OTHERWISE CONNECTIONS TO HOT WATER HEATERS AND EXPANSION JOINTS. CPVC CHLORINATED POLYVINYL PVC POLYVINYL CHLORIDE NOTED. PATCH FLOOR TO MATCH EXISTING. PRV PRESSURE REDUCING VALVE H. PIPE AND DUCT SHALL BE CONCEALED WITH NEW OR EXISTING CONSTRUCTION WHENEVER POSSIBLE, 4. PIPING CFH CUBIC FEET PER HOUR (GAS) UL UNDERWATER LABORATORIES, UNLESS INDICATED OTHERWISE. A. DOMESTIC COLD, AND HOT WATER (ABOVEGROUND). DOWN TYPE L HARD DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERED FITTINGS. U.G. UNDER GROUND DFU DRAINAGE FIXTURE UNIT GLOBE VALVE: CRANE #7 OR EQUAL. VTR VENT THROUGH ROOF FD FLOOR DRAIN BALL VALVE: CRANE #932 OR EQUAL. FLR FLOOR B. DOMESTIC COLD AND HOT WATER (UNDERGROUND). GPM GALLON PER MINUTE W/O WITHOUT 1. TYPE K HARD OR SOFT DRAWN COPPER TUBING, ASTM B-88 WITH WROUGHT BRONZE SOLDERING WC WATER COLUMN IE INVERTED ELEVATION IN.WC INCHES OF WATER COLUMN | WSFU WATER SUPPLY FIXTURE UNIT C. SANITARY SEWER AND VENTS (UNDERGROUND, INTERIOR TO BUILDING). ASTM D2665 POLYVINYL CHLORIDE (PVC) DWV PIPE, SCHEDULE 40, SOLVENT JOINT. ANNOTATION VENT PIPE AND FITTINGS ABOVE GROUND INSIDE OF THE BUILDING SHALL BE SERVICE WEIGHT HUB-AND-SPIGOT OR NO-HUB CAST IRON PIPE. (#) PLAN WORK NOTE 3. SEWER LINES SHALL BE LOCATED IN GENERAL AS SHOWN ON THE DRAWINGS. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN SUCH A MANNER AS TO MAINTAIN RTU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED PROPER CLEARANCES AND SUFFICIENT SLOPE TO ENSURE DRAINAGE AND INSTALLED UNLESS NOTED OTHERWISE) 4. VENT STACKS SHALL BE EXTENDED FULL SIZE THROUGH THE ROOF AND FLASHED WITH 4 POUND LEAD SHEETS TURNED DOWN INTO THE STACK AT LEAST 2" AND EXTENDED 12" IN ALL - PLUMBING FIXTURE DESIGNATION DIRECTIONS FROM THE PIPE AT THE ROOF LINE. VENTS THROUGH ROOF SHALL NOT BE LESS THAN 3". PVC PIPING SHALL NOT BE USED FOR VENT PIPING THROUGH THE ROOF. WHERE APPLICABLE FOR ROOFING SYSTEM USED, PROVIDE FLASHING VIA PLEATED EPDM CONE IN LIEU CONNECTION POINT OF NEW WORK TO EXISTING OF LEAD. ALL VENT STACKS IN OR AT OUTSIDE WALLS SHALL BE OFFSET 1'-6" MINIMUM FROM OUTSIDE WALLS BEFORE GOING THROUGH THE ROOF, TO FACILITATE FLASHING. → DETAIL REFERENCE UPPER NUMBER INDICATED DETAIL NUMBER D. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ANVIL. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69. 1. PROVIDE, SET, AND PROPERLY LOCATE PIPE SLEEVES AS REQUIRED FOR THIS WORK. ALL SLEEVES SHALL BE OF SUFFICIENT SIZE TO PERMIT PIPE MOVEMENT DUE TO EXPANSION AND $\frac{1}{1}$ SECTION CUT DESIGNATION 2" VENT IN WALL -180° ELBOW BEHIND — √ BACKSPLASH 6" ABOVE RIM CLEANOUT IN — END OF PIPE FLOOR — FLOW CONTROL FITTING, 25GPM. — DISCHARGE TO FLOOR SINK WITH AIR GAP. VENT FLOW CONTROL VALVE PER MANUFACTURER'S INSTUCTIONS. FLOOR SINK — NOTE: ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MEP ENGINEER 3 COMP SINK AND FLOOR SINK SCALE: NO SCALE

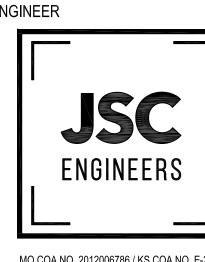
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GENERAL NOTES

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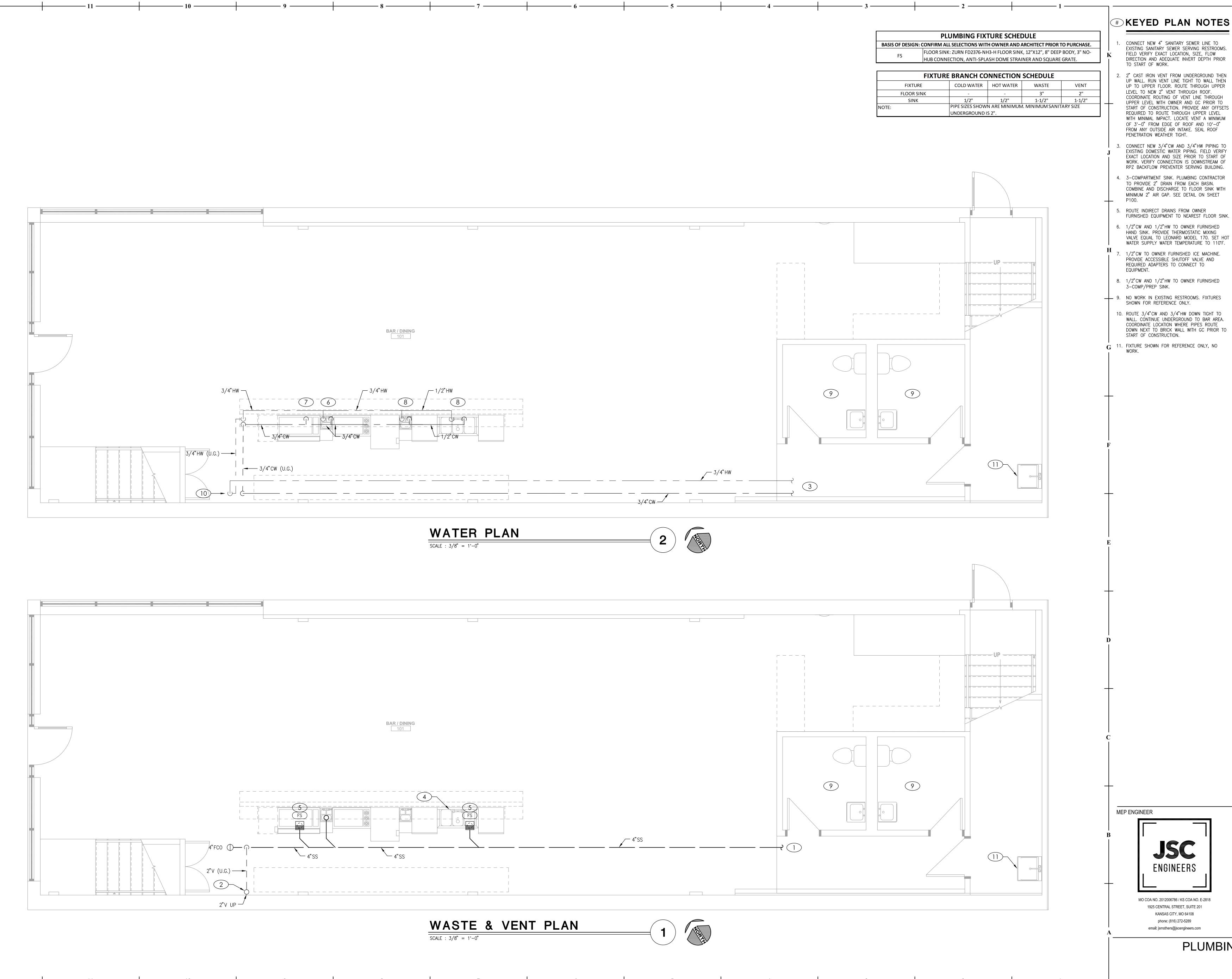
MO COA NO. 2012006786 / KS COA NO. E-2818 1925 CENTRAL STREET, SUITE 201 KANSAS CITY, MO 64108 phone: (816) 272-5289 email: jsmothers@jscengineers.com

JSC PROJECT #:

PROFESSIONAL SEAL

SMOTHERS

PLUMBING SPECIFICATIONS, DETAILS, AND SYMBOLS



KEYED PLAN NOTES

CONNECT NEW 4" SANITARY SEWER LINE TO EXISTING SANITARY SEWER SERVING RESTROOMS. FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION AND ADEQUATE INVERT DEPTH PRIOR

> 2. 2" CAST IRON VENT FROM UNDERGROUND THEN UP WALL. RUN VENT LINE TIGHT TO WALL THEN UP TO UPPER FLOOR. ROUTE THROUGH UPPER LEVEL TO NEW 2" VENT THROUGH ROOF. COORDINATE ROUTING OF VENT LINE THROUGH UPPER LEVEL WITH OWNER AND GC PRIOR TO START OF CONSTRUCTION. PROVIDE ANY OFFSETS REQUIRED TO ROUTE THROUGH UPPER LEVEL WITH MINIMAL IMPACT. LOCATE VENT A MINIMUM OF 3'-0" FROM EDGE OF ROOF AND 10'-0"

3. CONNECT NEW 3/4"CW AND 3/4"HW PIPING TO EXISTING DOMESTIC WATER PIPING. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. VERIFY CONNECTION IS DOWNSTREAM OF RPZ BACKFLOW PREVENTER SERVING BUILDING. 4. 3-COMPARTMENT SINK. PLUMBING CONTRACTOR TO PROVIDE 2" DRAIN FROM EACH BASIN.

5. ROUTE INDIRECT DRAINS FROM OWNER

6. 1/2"CW AND 1/2"HW TO OWNER FURNISHED HAND SINK. PROVIDE THERMOSTATIC MIXING VALVE EQUAL TO LEONARD MODEL 170. SET HOT WATER SUPPLY WATER TEMPERATURE TO 110°F.

PROVIDE ACCESSIBLE SHUTOFF VALVE AND REQUIRED ADAPTERS TO CONNECT TO

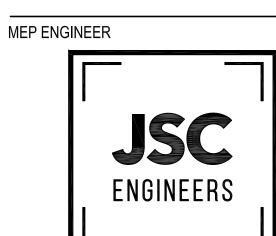
8. 1/2"CW AND 1/2"HW TO OWNER FURNISHED 3-COMP/PREP SINK.

9. NO WORK IN EXISTING RESTROOMS. FIXTURES SHOWN FOR REFERENCE ONLY.

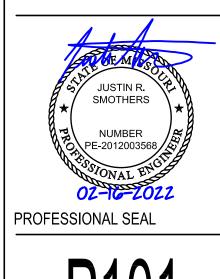
10. ROUTE 3/4"CW AND 3/4"HW DOWN TIGHT TO WALL. CONTINUE UNDERGROUND TO BAR AREA. COORDINATE LOCATION WHERE PIPES ROUTE DOWN NEXT TO BRICK WALL WITH GC PRIOR TO START OF CONSTRUCTION.

 $\overset{\cdot}{\mathbf{G}}$ 11. FIXTURE SHOWN FOR REFERENCE ONLY, NO

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PLUMBING PLANS AND SCHEDULES



MEP ENGINEER

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SMOTHERS PROFESSIONAL SEAL

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email: jsmothers@jscengineers.com JSC PROJECT #:

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ELECTRICAL SPECIFICATIONS AND **SYMBOLS**

PANELBOARD: P1 (EXISTING) LINE-SIDE LUGS: MECHANICAL BUS AMPS: 100A AIC RATING: 10000 FULLY RATED **EQUIPMENT GROUND BUS** MAIN SIZE/TYPE: MLO SERVES: LIBATIONS VOLTS/PHASE: 208Y/120V, 3PH, 4W MOUNTING: SURFACE SECTION: 1 VOLTAMPS/PHASE WIRE BKR P P BKR WIRE VOLTAMPS/PHASE
A B C NO. AMP AMP NO. A B C 5 PROVISIONAL SPACE 7 1ST FLOOR BATH PLUG 1ST FLOOR EAST PLUG 1ST FLOOR WEST PLUG 9 1ST FLOOR BATH LIGHT EX 20 1 1 20 EX 720 11 PROVISIONAL SPACE PROVISIONAL SPACE 2ND FLOOR BAR PLUGS 13 RCPT - FRONT BAR USB 2ND FLOOR BAR PLUGS
PROVISIONAL SPACE 15 RCPT - FREEZER 17 PROVISIONAL SPACE 2ND FLOOR BATH LIGHT 19 RCPT - ICE MAKER 2ND FLOOR BATH PLUG
PROVISIONAL SPACE 21 RCPT - BACK BAR CONVENIENC 360 23 PROVISIONAL SPACE 25 1ST FLOOR NORTH PLUGS 2ND FLOOR PLUGS FRONT WEST PLUGS
PROVISIONAL SPACE 12 20 1 1 20 EX 540 1 1 1 EX 20 1 1 20 EX 540 27 RCPT - FUTURE REFRIGERATOR 29 PROVISIONAL SPACE FRONT WEST PLUGS 31 2ND FLOOR PLUGS 33 OUTSIDE LIGHTS EX 20 1 1 20 EX 200 1ST WALL SCONCE 35 PROVISIONAL SPACE EX 20 1 1 20 EX 500 EX 20 1 1 20 EX 500 PROVISIONAL SPACE 37 EXISTING LOADS EXISTING LOAD EXISTING LOAD
PROVISIONAL SPACE 39 EXISTING LOADS 41 PROVISIONAL SPACE 3,270 3,040 SUBTOTAL
 TOTAL PHASE A - VA
 9,260
 LOAD
 CONN. VA
 DF
 LOAD

 AMPS
 77
 COOLING
 1.00
 REFRIG

 REFRIG
 1,200
 1.00

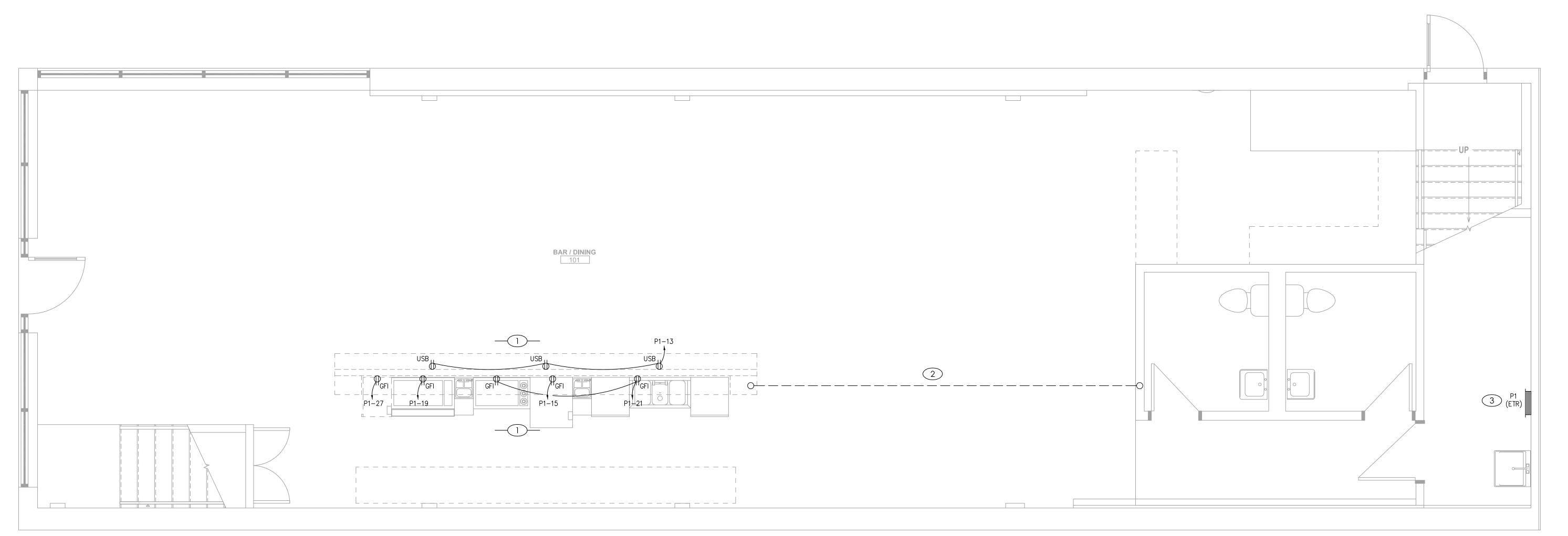
 SIGN/DISP
 1.25
 TOTAL PHASE B - VA 7,200 HEATING LIGHTING
RECEPTACLES
MOTORS
SUPP HEAT
MISC EQUIP 9,450 1.00 1.25 TOTAL DEMAND 1.25 16,473 VA TOTAL PNLBD - VA

ARE BEING MADE TO THE ELECTRICAL SERVICE DISTRIBUTION EQUIPMENT IN THIS SCOPE.

SINGLE LINE DIAGRAM

ELECTRIC SERVICE SINGLE LINE DIAGRAM IS EXISTING TO REMAIN. NO MODIFICATIONS

PANELBOARD SCHEDULE



GENERAL NOTES

- A. EXISTING WORK SHOWN LIGHT, NEW SHOWN BOLD.
- B. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
- C. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL LOCAL BUILDING CODES AND AMÉNDMENTS.
- D. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- E. THIS CONTRACTOR SHALL PERFORM ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL SYSTEMS.
- ${f J}$ F. ALL WIRING SHALL BE IN APPROVED RACEWAY. G. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH CIRCUIT EXCEEDS 100 FEET.
- H. ROUTE ALL EXPOSED, RIGID CONDUIT TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN UNISTRUT CABLE/PIPE TRAY WHERE POSSIBLE. COORDINATE CONDUIT ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING CONDUITS.

#KEYED PLAN NOTES

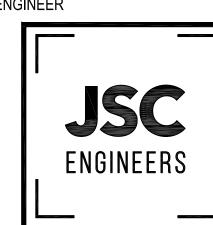
- 1. COORDINATE EXACT MOUNTING HEIGHT OF DEVICE WITH ARCHITECTURAL ELEVATIONS PRIOR TO CONSTRUCTION.
- 2. ROUTE CONDUIT(S) FOR HOMERUNS UNDERFLOOR TO NEAREST WALL CAVITY TO BE TURNED UP AND STUBBED OUT ABOVE ACCESSIBLE CEILING FOR ROUTING TO PANELBOARD. COORDINATE EXACT ROUTING WITH OWNER PRIOR TO CONSTRUCTION.
- 3. EXISTING PANELBOARD TO REMAIN. REFER TO PANELBOARD SCHEDULE ON THIS SHEET FOR MORE INFORMATION.

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REVISION DATES:





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ELECTRICAL PLANS



