

RENDERING FOR CONCEPTUAL REFERENCE ONLY. IMAGE MAY NOT REFLECT LATEST DESIGN. REFERENCE ELEVATIONS AND SCHEDULES FOR FINISHES.



DRAWING INDEX

ARCHITECTURAL

- A0.00 COVER SHEET
- A0.01 LEGENDS & GENERAL NOTES
- A0.02 ADA DETAILS
- A0.20 ARCHITECTURAL SITE PLAN & DETAILS
- A1.00 FLOOR PLAN
- A1.50 ROOF PLAN & RCP
- A2.00 EXTERIOR ELEVATIONS
- A3.00 WALL AND BUILDING SECTIONS
- A3.50 DETAILS
- A4.00 INTERIOR ELEVATIONS
- A6.00 DOOR AND FINISH SCHEDULE
- A9.00 EQUIPMENT PLAN

STRUCTURAL

- S0.0 GENERAL NOTES
- S0.1 ISOMETRIC
- S1.1 FOUNDATION PLAN
- S2.2 ROOF FRAMING PLAN
- S3.1 TYPICAL FOUNDATION DETAILS
- S4.1 TYPICAL FRAMING DETAILS

PLUMBING

- P1.01 GENERAL PLUMBING NOTES
- P2.01 FIRST FLOOR PLUMBING PLAN
- PE0.01 COVER SHEET

ELECTRICAL

- E1.01 ELECTRICAL PLAN
- E2.01 ELECTRICAL SCHEDULES & DETAILS

MECHANICAL

- M-1 MECHANICAL PLAN

PROJECT TEAM

ARCHITECT
 FINKLE + WILLIAMS ARCHITECTURE
 8787 Renner Blvd, Suite 100
 Lenexa, Kansas 66219
 PH. 913.498.1550

STRUCTURAL
 BSE Structural Engineers
 11320 W. 79th St.
 Lenexa, KS 66214
 PH. 913.492.7400

MECHANICAL
 DESIGN / BUILD BY CONTRACTOR

PLUMBING
 PKMR
 13300 W. 98th St.
 Lenexa, KS 66215
 PH. 913.492.2400

ELECTRICAL
 PKMR
 13300 W. 98th St.
 Lenexa, KS 66215
 PH. 913.492.2400



FINKLE + WILLIAMS ARCHITECTURE

PARAGON STAR RR-CONCESSIONS

PROJECT ADDRESS
 1401 NW River Rd
 Lee's Summit, MO 64081

PROJECT NUMBER
 19050.04b

RELEASE DATE
 12.08.2025

ISSUED FOR
 PERMIT

CURRENT REVISION



PARAGON STAR RR-CONCESSIONS

1401 NW River Rd
Lee's Summit, MO 64081

Project No.: 19050.04b

Date: 12.08.2025

Issued For: PERMIT

REVISIONS

No. Date Description

1 1/9/26 CITY COMMENTS

PLUMBING FIXTURE SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, DESCRIPTION, FITTINGS, CONNECTION SIZES, REMARKS. Includes items like L-1 SLOAN ADA-COMPLIANT WALL MOUNTING LAVATORY, L-2 SLOAN ADA-COMPLIANT WALL MOUNTED 3-2 STATION LAVATORY, UR-1 AMERICAN STANDARD WALL MOUNTING URINAL, etc.

REMARKS: 1 PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN. 2 PROVIDE CHROME-PLATED BRASS P-TRAP. 3 PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS. 4 PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES. 5 INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS. 6 PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. 7 PROVIDE HANDLE STOPS AND FLEXIBLE RISERS. 8 PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.

PIPING MATERIAL AND INSULATION SCHEDULE

Table with columns: SYSTEM, SIZE, MATERIAL, TYPES/SCHED, ACCEPTABLE FITTINGS, FIELD TEST PRESSURE/TIME, ALLOWABLE IN PLENUMS, INSULATION TYPE, THICKNESS. Includes rows for DOMESTIC COLD WATER, DOMESTIC HOT WATER, GREASE WASTE, etc.

Table with columns: MARK, MANUFACTURER, MODEL, SERVICE, CAPACITIES, CONNECTION SIZES, REMARKS. Includes rows for G-1 SCHER INTERCEPTOR.

Table with columns: MARK, MANUFACTURER, MODEL, DESCRIPTION, TANK VOLUME, HEATING ELEMENT(S), RECOVERY RATE, RISE, ELECTRICAL VOLTAGE, PH, REMARKS. Includes rows for E-1 ELEC WATER HEATER.

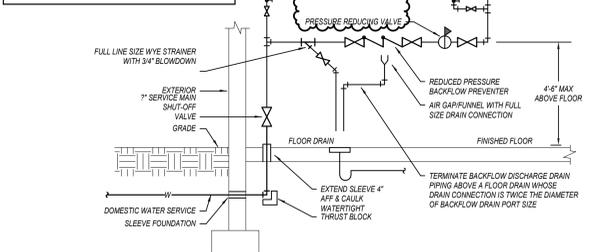
FLOOR DRAIN SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, SERVICE, TOPGRATE SIZE, WASTE SIZE, REMARKS. Includes rows for FD-1 WATTS FLOOR DRAIN, etc.

DOMESTIC RECIRCULATION PUMP SCHEDULE

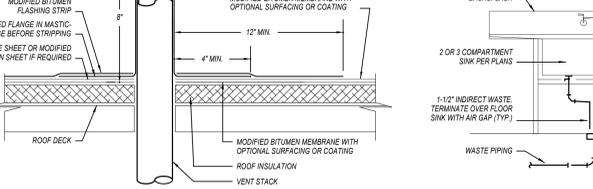
Table with columns: MARK, MANUFACTURER, MODEL, GPM, HEAD, PUMP HP, MAX RPM, ELECTRICAL VOLTAGE, PH, REMARKS. Includes rows for RP-1 BELL & GOSSETT RECIRCULATION PUMP.

NOTES: 1 BACKFLOW PREVENTER MANUFACTURER AND INSTALLATION SHALL BE AS APPROVED BY LOCAL AND STATE AUTHORITIES AND IN ACCORDANCE TO LISTING OF DEVICE. 2 ALL PIPING TO BE RIGIDLY SUPPORTED AND INSTALLED IN SUCH A MANNER AS TO BE DRAINABLE.

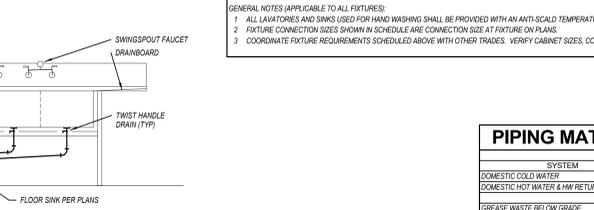


WATER SERVICE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL NOT TO SCALE

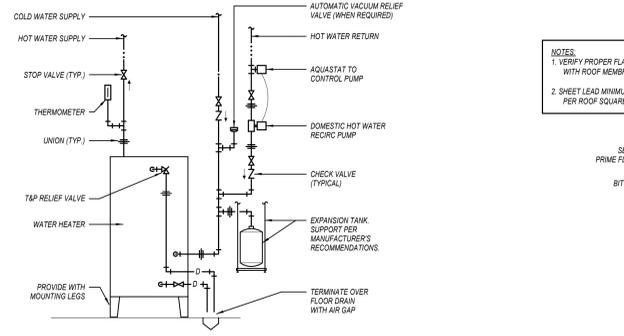
NOTES: 1 VERIFY PROPER FLASHING PROCEDURE WITH ROOF MEMBRANE MANUFACTURER. 2 SHEET LEAD MINIMUM OF 2-1/2" POUNDS PER ROOF SQUARE.



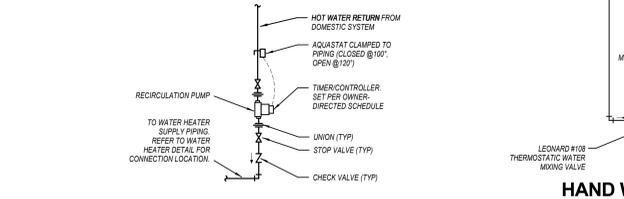
VENT STACK NOT TO SCALE



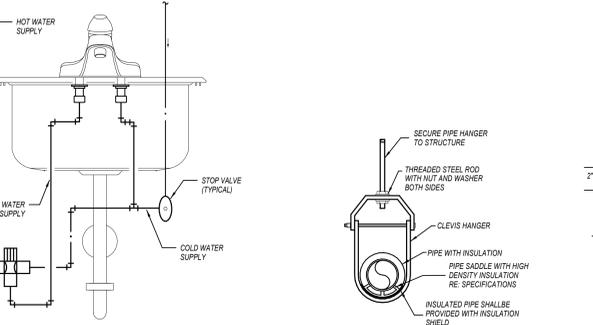
FOOD PREP SINK DETAIL NOT TO SCALE



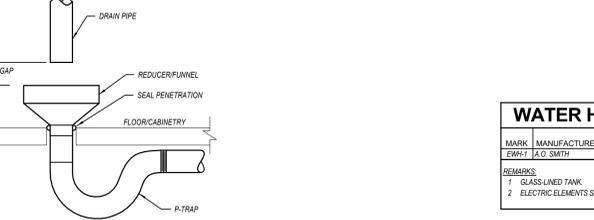
ELECTRIC WATER HEATER NOT TO SCALE



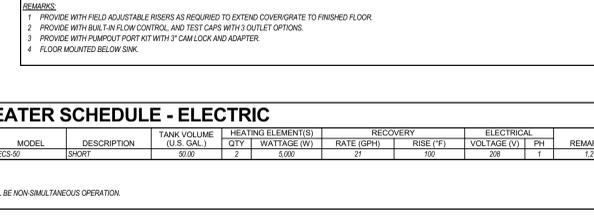
RECIRCULATING PUMP DETAIL NOT TO SCALE



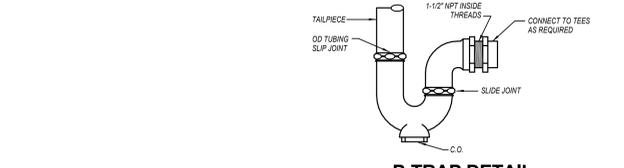
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC NOT TO SCALE



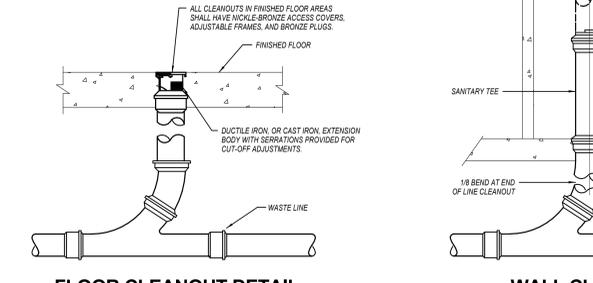
PIPE HANGER DETAIL NOT TO SCALE



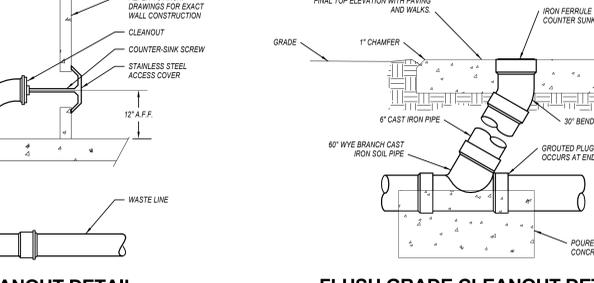
AIR GAP DETAIL NOT TO SCALE



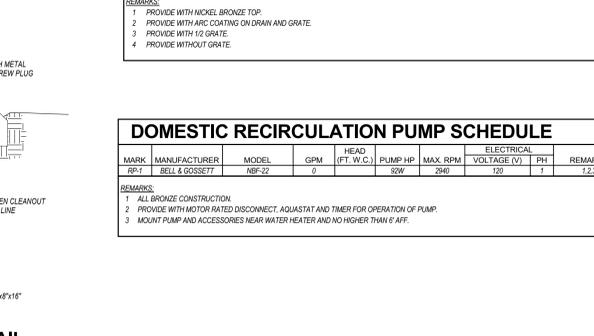
P-TRAP DETAIL NOT TO SCALE



FLOOR CLEANOUT DETAIL NOT TO SCALE



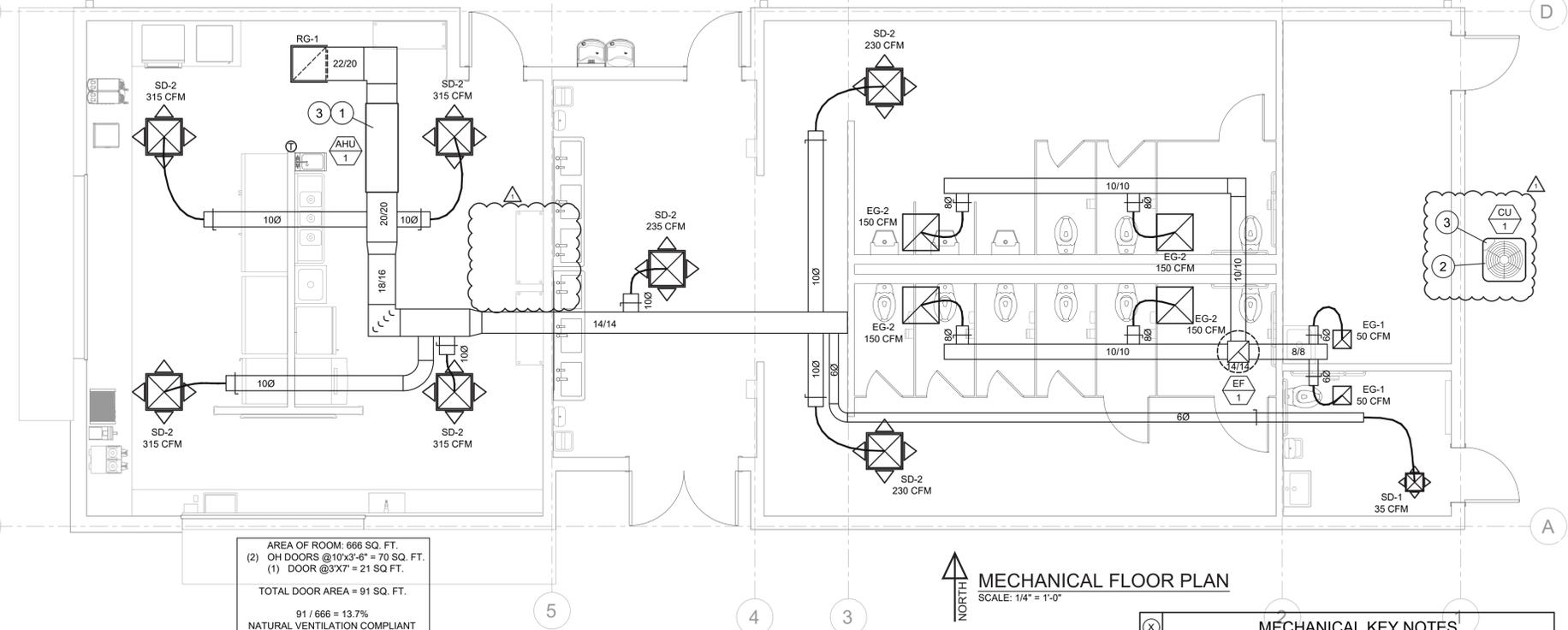
WALL CLEANOUT DETAIL NOT TO SCALE



FLUSH GRADE CLEANOUT DETAIL NOT TO SCALE

MECHANICAL SPECIFICATIONS

- GENERAL PROVISIONS:
 1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEMS OUTLINED.
 2. OBTAIN ALL PERMITS, FEES, LICENSES, INSPECTIONS, AND CERTIFICATES OF COMPLIANCE OR APPROVAL AS REQUIRED BY THE AUTHORITIES.
 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE SITE.
 4. ALL TESTING REQUIRED BY AUTHORITIES SHALL BE CONSIDERED PART OF THIS WORK.
 5. DURING CONSTRUCTION, ALL FIXTURES, EQUIPMENT, PIPE, DUCT, ETC. SHALL BE COVERED, PLUGGED, OR CAPPED AS REQUIRED TO KEEP CLEAN AND UNDAMAGED. ALL DAMAGED ITEMS SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED. ALL PROTECTIVE COVERING SHALL BE REMOVED BEFORE FINAL ACCEPTANCE.
 6. PROVIDE ALL NECESSARY CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, AND ROOFS AS NECESSARY. PATCH AROUND ALL OPENINGS SHALL MATCH ADJACENT AREA. COORDINATE ALL ROOFING WORK WITH OWNER OR RESPONSIBLE PARTY, SO THAT THE EXISTING ROOFING WARRANTY WILL BE MAINTAINED.
 7. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.
- OPERATION AND MAINTENANCE MANUALS:
 - 2.1. DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPIL OPERATING INSTRUCTIONS, WIRING DIAGRAMS, CATALOG CUTS, LUBRICATION AND PREVENTIVE MAINTENANCE INSTRUCTIONS, PARTS LISTS, ETC. FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
 - 2.2. ALL LITERATURE AND INSTRUCTIONS SHIPPED WITH THE EQUIPMENT SHALL BE SAVED FOR INCLUSION IN THE OPERATION AND MAINTENANCE MANUALS.
 - 2.3. ALL LITERATURE LISTED ABOVE AND ALL PAPERS LISTING WARRANTIES, ETC. SHALL BE BOUND IN A 3-RING BINDER AND LABELED WITH THE PROJECT NAME, ADDRESS, ARCHITECT, ENGINEER, CONTRACTORS, ETC.
- MANUFACTURERS:
 - 3.1. MANUFACTURERS, MODEL NUMBERS, ETC. INDICATED OR SCHEDULED ON THE DRAWINGS SHALL BE INTERPRETED AS HAVING ESTABLISHED A STANDARD OF QUALITY AND SHALL NOT BE CONSIDERED AS LIMITING COMPETITION. ARTICLES, FIXTURES, ETC. OF EQUAL QUALITY BY MANUFACTURERS SHALL BE ACCEPTABLE, SUBJECT TO STRUCTURAL AND ELECTRICAL CONSTRAINTS OF THE PROJECT DESIGN, UNLESS NOTED OTHERWISE.
- MOTORS:
 - 4.1. PROVIDE THERMAL OVERLOAD PROTECTION FOR EACH MOTOR PROVIDED BY THIS WORK.
- TESTING, BALANCING, AND CLEANING:
 - 5.1. ALL PIPING SHALL BE TESTED FOR LEAKS BEFORE BEING CONCEALED IN WALL CONSTRUCTION OR COVERED WITH INSULATION.
 - 5.2. DUCTWORK AND PIPING SHALL BE BALANCED BY QUALIFIED BALANCING PERSONNEL WHO HAVE PREVIOUS EXPERIENCE WITH BALANCING PROCEDURES.
- PIPING:
 - 6.1. CONDENSATE DRAINS & INDIRECT WASTE (ABOVEGROUND):
 - 6.1.1. DWV, WROUGHT COPPER, ANSI B-16.29 (INSIDE BUILDING).
 - 6.1.2. POLYVINYLCHLORIDE (PVC) DWV PIPE, SCHEDULE 40, SOLVENT JOINT (EXTERIOR OF BUILDING).
 - 6.2. REFRIGERANT:
 - 6.2.1. ASTM B 280, TYPE ACR, HARD-DRAWN STRAIGHT LENGTHS, AND SOFT-ANNEALED COILS, SEAMLESS COPPER TUBING.
 - 6.2.2. WROUGHT COPPER, ANSI B16.22, STREAMLINED PATTERN, FITTINGS, BRAZED JOINTS, AWS A 5.8, CLASSIFICATION BAG-1 (SILVER).
 - 6.2.3. TUBING SHALL BE FACTORY CLEANED, READY FOR INSTALLATION, AND HAVE ENDS CAPPED TO PROTECT CLEANLINESS OF PIPE INTERIORS PRIOR TO SHIPPING.
 - 6.2.4. SIZE AND INSTALLATION OF PIPE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 6.3. ALL PIPE HANGERS AND SUPPORTS SHALL BE STANDARD PRODUCTS OF GRINNELL, FEE AND MASON, OR ELCEN. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS-SP-69.
 - 6.4. SLEEVES:
 - 6.4.1. 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 CONTRACTION AND TO ACCOMMODATE PIPE INSULATION.
 - 6.4.2. INTERIOR PARTITIONS: 18 GAGE GALVANIZED STEEL. PACK BETWEEN PIPE AND SLEEVE WITH FIRE SAFING AND CAULK AT EACH END WITH FIRE RESISTANT SEALANT.
 - 6.4.3. ROOF: PROSET OR EQUAL, MANUFACTURED PVC SCHEDULE 40 PIPE SLEEVE WITH WATERPROOF SEAL. COORDINATE WITH ROOFING CONTRACTOR AND FLASH AS REQUIRED TO MAINTAIN ROOF WARRANTY.
 - 6.4.4. PLUMBING VENTS: FLASH ROOF VENT INTO ROOFING SYSTEM AS REQUIRED BY THE ROOFING CONTRACTOR TO MAINTAIN EXISTING ROOF WARRANTY.
 - 6.5. PROVIDE CHROME PLATED ESCUTCHEONS ON ALL PIPE ENTERING FINISHED AREAS.
- INSULATION AND DUCT LINING:
 - 7.1. ALL INSULATIONS AND ACCESSORIES SHALL HAVE A FIRE HAZARD CLASSIFICATION WITH A MAXIMUM FLAME SPREAD RATING OF 25, A MAXIMUM FUEL CONTRIBUTION RATING OF 50, AND A MAXIMUM SMOKE DEVELOPED RATING OF 50, IN ACCORDANCE WITH NFPA.
 - 7.2. PIPE INSULATION:
 - 7.2.1. THE PIPING INSULATION USED SHALL HAVE A THERMAL CONDUCTIVITY OF 0.27 BTU PER IN*FT*FT OR LESS.
 - 7.2.2. FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER, ASJ JACKET, FACTORY APPLIED PRESSURE SEALING LONGITUDE LAP JOINT, NO STAPLES, ZESTON PREMOLDED PVC FITTING COVERS. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 7.2.3. FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION, UNSLIT OR PRESLIT WITH PRESSURE SENSITIVE ADHESIVE SYSTEM FOR CLOSURE AND VAPOR SEALING, EQUAL TO ARMSTRONG AP ARMAFLEX OR ARMAFLEX 2000.
 - 7.2.4. FOR NON CIRCULATING SYSTEMS, THE FIRST 8 FEET OF INLET AND OUTLET PIPING BETWEEN THE TANK AND THE HEAT TRAP (INCLUDING THE HEAT TRAP) MUST BE INSULATED.
 - 7.2.5. INSULATION SCHEDULE:
 - 7.2.5.1. REFRIGERANT SUCTION: 1" FOR PIPING UP TO 1 1/2", & 1-1/2" FOR PIPING 1-1/2" AND LARGER
 - 7.2.5.2. CONDENSATE DRAINS INSIDE BUILDING: 1/2"
 - 7.3. DUCTWORK: ACOUSTICAL INSULATION
 - 7.3.1. DUCT LINING: 2 LB/CF, THICKNESS AS SCHEDULED, AIR STREAM SIDE COATED, INSTALL PER SMACNA STANDARDS.
 - 7.3.1.1. DUCT LINING SCHEDULE:
 - 7.3.1.1.1. RETURN AIR DUCT: 1/2" THROUGHOUT THE FIRST 10 FEET OF DUCT.
 - 7.3.1.1.2. RETURN AIR DUCT: 1/2"
 - 7.3.1.1.3. OUTDOOR AIR DUCT: 2"
 - 7.3.1.2. DUCTWORK: THERMAL INSULATION
 - 7.3.2.1. DUCT COVERING: 3/4 LB/CF, FIBERGLASS BLANKET WITH FACTORY APPLIED VAPOR BARRIER AND FACING, THICKNESS AS SCHEDULED. INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 7.3.2.1.1. DUCT COVERING: MINIMUM R-6
 - 7.3.2.1.1.1. ROUND SUPPLY DUCT: 2"
 - 7.3.2.1.1.2. RETURN AIR DUCT: 2"
 - 7.3.2.1.1.3. OUTDOOR AIR DUCT: 2"
 - 7.3.2.2. DUCT LINING: 2 LB/CF, THICKNESS AS SCHEDULED, AIR STREAM SIDE COATED, INSTALL PER SMACNA STANDARDS.
 - 7.3.2.2.1. DUCT LINING SCHEDULE: MINIMUM R-6
 - 7.3.2.2.1.1. ROUND SUPPLY DUCT: 1-1/2"
 - 7.3.2.2.1.2. RETURN AIR DUCT: 1-1/2"
- DUCTWORK:
 - 8.1. ALL DUCTWORK, UNLESS OTHERWISE INDICATED, SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A 57, LOCKFORMING QUALITY, WITH G 60 ZINC COATING IN ACCORDANCE WITH ASTM A 525; AND MILL PHOSPHATIZED FOR EXPOSED LOCATIONS.
 - 8.2. DUCTWORK: METAL GAUGES, REINFORCING, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION FOR A 2 INCH WATER GAUGE STATIC PRESSURE.
 - 8.3. ALL FITTINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION.
 - 8.4. SEAL ALL CONCEALED DUCTWORK JOINTS WITH NON-HARDENING, NON-MIGRATING MASTIC SEALANT, AS RECOMMENDED FOR SEALING SEAMS AND JOINTS IN DUCTWORK. OIL BASE CALKING AND GLAZING COMPOUNDS SHALL NOT BE ACCEPTABLE. DUCTS SHALL BE SEALED TO THE CLASS LEVEL LISTED BELOW.
 - 8.4.1. UNCONDITIONED SPACES:
 - 8.4.1.1. SUPPLY < 2" W.C. - CLASS B
 - 8.4.1.2. SUPPLY > 2" W.C. - CLASS A
 - 8.4.1.3. EXHAUST - CLASS C
 - 8.4.1.4. RETURN - CLASS B
 - 8.4.2. CONDITIONED SPACES (PLENUM)
 - 8.4.2.1. SUPPLY < 2" W.C. - CLASS C
 - 8.4.2.1. SUPPLY > 2" W.C. - CLASS B
 - 8.4.2.2. EXHAUST - CLASS B
 - 8.4.2.3. RETURN - CLASS C
- FLEXIBLE DUCT:
 - 9.1. ATO 8086 (R-6), OR EQUAL.
 - 9.2. FACTORY APPLIED INSULATION AND VAPOR BARRIER, 1-1/2" THICK.
 - 9.3. MAXIMUM LENGTH OF 6'-0".
- EXHAUST FANS:
 - 10.1. CENTRIFUGAL TYPE FAN WITH CHARACTERISTICS AND CAPACITY AS SCHEDULED, ELECTRICALLY POWERED, SUITABLE FOR MOUNTING ON ROOF CURB, DIRECT OR BELT DRIVEN, HEAVY GAUGE SPUN-ALUMINUM WEATHERPROOF HOUSINGS OF THE HOODED DOME OR UPLAIST TYPE. PROVIDE PERMANENT SPLIT-CAPACITOR TYPE MOTOR FOR DIRECT DRIVEN FANS, AND CAPACITOR-START, INDUCTION-RUN TYPE MOTOR FOR BELT DRIVEN FANS.
- AIR HANDLING UNIT AND HEAT PUMP CONDENSING UNIT:
 - 11.1. AIR HANDLING UNIT SHALL BE FACTORY ASSEMBLED, PRE-WIRED UNIT CONSISTING OF SHEETMETAL CASING, FILTER, SUPPLY FAN, ELECTRIC RESISTANCE HEATER, AND CONTROLS. CAPACITY SHALL BE AS SCHEDULED.
 - 11.1.1. THE UNIT SHALL BE EQUIPPED WITH THE MANUFACTURER'S STANDARD CONTROLS INCLUDING 24 VOLT CONTROL TRANSFORMER, HIGH TEMPERATURE LIMIT SWITCH, AND FAN TIMED DELAY RELAY.
 - 11.1.2. RETURN AIR INLET ON UNIT SHALL BE PROVIDED WITH A 1" THROWAWAY TYPE FILTER AND SLIDE IN FRAME, MOUNTED ON THE UNIT.
 - 11.1.3. FAN SHALL BE A DIRECT DRIVE MULTI-SPEED BLOWER, RESILIENTLY MOUNTED IN THE CASING. MOTOR SHALL BE PROVIDED WITH AUTOMATIC THERMAL OVERLOAD PROTECTION.
 - 11.1.4. REFRIGERANT COIL: ALUMINUM FINS BONDED TO SEAMLESS COPPER TUBE BY MEANS OF MECHANICAL EXPANSION. AN EQUALIZING TYPE VERTICAL DISTRIBUTOR SHALL ENSURE EACH COIL CIRCUIT RECEIVES THE SAME AMOUNT OF REFRIGERANT.
 - 11.1.5. ELECTRIC HEAT: ELECTRIC HEATER SHALL BE INSTALLED INTERNAL TO THE AIR HANDLING UNIT. HEATING ELEMENTS SHALL BE CONSTRUCTED OF HEAVY DUTY NICKEL CHROMIUM. EACH HEATER SHALL HAVE AUTOMATICALLY RESET HIGH LIMIT CONTROL OPERATING THROUGH HEATING ELEMENT CONTACTORS. EACH HEATER SHALL BE INDIVIDUALLY FUSED AND SHALL COMPLY WITH ALL NEC REQUIREMENTS. HEATERS SHALL BE UL LISTED.
 - 11.2. HEAT PUMP CONDENSING UNIT SHALL BE FACTORY-ASSEMBLED AND TESTED AIR-COOLED CONDENSING UNIT, CONSISTING OF COMPRESSOR, CONDENSER COIL, FAN, MOTOR, REVERSING VALVE, SOLID-STATE DEFROST CONTROL UTILIZING THERMISTERS, REFRIGERANT RESERVOIR, OPERATING CONTROLS, ETC. CAPACITY AND ELECTRICAL CHARACTERISTICS SHALL BE AS SCHEDULED.
 - 11.2.1. HERMETICALLY SEALED COMPRESSOR WITH BUILT-IN OVERLOAD AND VIBRATION ISOLATION. COMPRESSOR MOTOR, SHALL HAVE THERMAL AND CURRENT SENSITIVE OVERLOAD DEVICES, INTERNAL HIGH-PRESSURE PROTECTION, HIGH AND LOW PRESSURE CUTOFF SWITCHES, START CAPACITOR AND RELAY, 2-POLY CONTACTOR, CRANKCASE HEATER, AND TEMPERATURE ACTUATED SWITCH AND TIMER TO PREVENT COMPRESSOR RAPID CYCLE.
 - 11.2.2. COIL SHALL BE COPPER TUBING WITH ALUMINUM FINS, COMPLETE WITH LIQUID ACCUMULATOR AND LIQUID SUBCOOLER. EXTEND REFRIGERANT PIPING WITH BRASS SERVICE VALVES, FITTINGS, AND GAGE PORTS TO EXTERIOR OF CASING.
 - 11.2.3. ALUMINUM PROPELLER FAN SHALL BE DIRECT DRIVEN, WITH PERMANENTLY LUBRICATED FAN MOTOR HAVING THERMAL OVERLOAD PROTECTION.
 - 11.2.4. PROVIDE REVERSING VALVE, SUCTION LINE ACCUMULATOR, DISCHARGE MUFFLER, FLOW CONTROL CHECK VALVE, AND SOLID-STATE DEFROST CONTROL UTILIZING THERMISTERS.
- CONTROL WIRING:
 - 12.1. ELECTRICAL WIRING AND WIRING CONNECTIONS REQUIRED FOR THE INSTALLATION OF THE TEMPERATURE CONTROL SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS SPECIFICALLY SHOWN ON THE ELECTRICAL DRAWINGS OR SPECIFICATIONS.
 - 12.2. INSTALL CONTROL WIRING, WITHOUT SPLICES BETWEEN TERMINAL POINTS, COLOR CODED. INSTALL IN NEAT WORKMANLIKE MANNER, SECURELY FASTENED. INSTALL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THE ELECTRICAL SPECIFICATIONS.
 - 12.2.1. INSTALL CIRCUITS UNDER 25 VOLT WITH COLOR CODED NUMBER 12 WIRE.
 - 12.2.2. INSTALL CIRCUITS UNDER 25 VOLT WITH COLOR CODED NUMBER 18 WIRE WITH 0.031 INCH HIGH TEMPERATURE 105°F PLASTIC INSULATION ON EACH CONDUCTOR AND PLASTIC SHEATH OVER ALL.
 - 12.2.3. INSTALL ELECTRONIC CIRCUITS WITH COLOR CODED NUMBER 22 WIRE WITH 0.023 INCH POLYETHYLENE INSULATION ON EACH CONDUCTOR WITH PLASTIC JACKETED COPPER SHIELD OVER ALL.
 - 12.2.4. INSTALL LOW VOLTAGE CIRCUITS, LOCATED IN CONCRETE SLABS AND MASONRY WALLS, OR EXPOSED IN OCCUPIED AREAS, IN ELECTRIC CONDUIT.
 - 12.2.5. ALL WIRING IN AREAS USED AS AIR PLENUMS SHALL BE IN ELECTRIC CONDUIT EXCEPT THAT LOW VOLTAGE WIRING MAY BE TEFLON COATED, ALUMINUM SHEATHED CABLE OR OTHER WIRE SPECIFICALLY APPROVED FOR INSTALLATION IN AIR PLENUMS, WHERE ACCEPTABLE BY LOCAL CODES.
 - 12.2.6. ALL WIRING IN AREAS NOT USED FOR AIR MOVEMENT SHALL BE IN ELECTRIC METALLIC TUBING EXCEPT LOW VOLTAGE WIRING MAY BE IN APPROVED SIGNAL CABLE WHERE ACCEPTED BY LOCAL CODES.



MECHANICAL FLOOR PLAN
 SCALE: 1/4" = 1'-0"

AIR HANDLER SCHEDULE														
MARK	MANUFACTURER	MODEL	TONS	MINIMUM OUTDOOR AIR (CFM)	BLOWER DATA			HEATING DATA (ELEC)			ELECTRICAL DATA		ACCESSORIES AND INSTALLATION NOTES	
					CFM	E.S.P.	HP	KW INPUT	STAGES	BTU/H OUTPUT	VOLTAGE	MCA		MOCP
AHU 1	LENNOX	CBK47UHET060	5	0	1990	0.6	1	4.0 (@240V)	1	10,250	208 / 1Ø	28	30	1,2,3,4,5

- AIR HANDLER AND CONDENSING UNIT SHALL BE OF THE SAME MANUFACTURER.
- 1" THICK DISPOSABLE FILTER.
- EXTERNAL STATIC PRESSURE INCLUDES PRESSURE DROP THROUGH ALL COMPONENTS EXTERNAL TO AIR HANDLER.
- 7-DAY PROGRAMMABLE (HEAT/COOL/AUTO) COMMERCIAL THERMOSTAT.
- ALL UNIT BREAKER SIZES SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR.

HEAT PUMP CONDENSING UNIT SCHEDULE												
MARK	MANUFACTURER	MODEL	EVAP. COIL MODEL	TONS	EFFICIENCY RATING (SEER)	COOLING DATA			ELECTRICAL DATA		ACCESSORIES AND INSTALLATION NOTES	
						TOTAL BTU/H	AMBIENT	EVAP. EAT	VOLTAGE	MCA		MOCP
CU 1	LENNOX	ML14KP1-060	CBK47UHET060	5	14.0	60,000	95°F	80°F/67°F	208 / 1Ø	22	35	1,2,3,4,5,6

- TIME DELAY ON COMPRESSOR RE-START. COMPRESSOR LOCK-OUT WITH AMBIENT BELOW 5°F.
- INDOOR COIL WITH THERMAL EXPANSION VALVE (TXV).
- CRANKCASE HEATER.
- CONCRETE OR PRE-MANUFACTURED POLYOLEFIN PAD.
- HAIL GUARDS.
- ALL UNIT BREAKER SIZES SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR.

GRILL, REGISTER, & DIFFUSER SCHEDULE						
MARK	MANUFACTURER	MODEL	FACE SIZE (INCHES)	NECK SIZE (INCHES)	FINISH	NOTES
SD-1	TITUS	TMS/3	12x12	6Ø	WHITE	-
SD-2	TITUS	TMS/3	24x24	10Ø	WHITE	-
RG-1	TITUS	PAR/3	24x24	22x22	WHITE	-
EG-1	TITUS	PAR-AA/3	12x12	6Ø	WHITE	-
EG-2	TITUS	PAR-AA/3	24x24	8Ø	WHITE	-

EXHAUST FAN SCHEDULE										
MARK	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (" W.C.)	RPM (MAX)	ELECTRICAL DATA			CONTROL METHOD	ACCESSORIES AND INSTALLATION NOTES
						VOLTAGE	WATTS	HP		
EF 1	SOLER & PALAU	SDB-12	700	0.50	1200	120 / 1Ø	-	1/4	CONTINUOUS DURING OPERATIONS	1,2,3

- BACKDRAFT DAMPER.
- BIRD SCREEN.
- 14" TALL PRE-SLOPED ROOF CURB

MECHANICAL SYMBOLS AND LEGEND		
ABBR.	SYMBOL	DESCRIPTION
CD		CEILING DIFFUSER (SUPPLY AIR)
RG		RETURN GRILLE
EF		EXHAUST GRILLE
		THERMOSTAT (48" AFF)
		DUCTWORK (NEW)
18/12		SIZE OF RECTANGULAR DUCTWORK (WIDTH/HEIGHT, INCHES)
14Ø		SIZE OF ROUND DUCTWORK (DIAMETER, INCHES)
		FLEX DUCTWORK
SA		SUPPLY AIR (POSITIVE PRESSURE)
RA		RETURN AIR (NEGATIVE PRESSURE)
EA		EXHAUST AIR (POSITIVE OR NEGATIVE PRESSURE)
MBD		MANUAL BALANCING DAMPER
		MECHANICAL EQUIPMENT (AS SCHEDULED)
M.C.		MECHANICAL CONTRACTOR

MECHANICAL KEY NOTES	
1	SUPPORT UNIT FROM STRUCTURE AS REQUIRED BY MANUFACTURER. PROVIDE VIBRATION ISOLATION AT SUPPORT POINTS. PROVIDE WATERPROOF DRAIN PAN UNDER UNIT WITH CONTACT TO DE-ENERGIZE UNIT WITH PRESENCE OF WATER IN DRAIN PAN.
2	SET UNIT ON CONCRETE OR PRE-MANUFACTURER POLYEFIN PAD.
3	CONNECT REFRIGERANT PIPING TO CONDENSING UNIT & COIL AS REQUIRED. PROVIDE REFRIGERANT PIPING FOR CONDENSING UNIT AS REQUIRED BY MANUFACTURER. INSTALL PIPING AS RECOMMENDED BY MANUFACTURER.

MECHANICAL GENERAL NOTES	
1	COORDINATE WITH ALL PROJECT CONTRACTORS AND VERIFY EXISTING CONDITIONS FOR PROPER INSTALLATION OF SYSTEMS AS INTENDED.
2	INSTALL SYSTEMS AS REQUIRED TO PROVIDE MANUFACTURER-RECOMMENDED CLEARANCES.
3	FLEXIBLE CONNECTIONS SHALL BE PROVIDED BETWEEN DUCTWORK AND MOTORIZED EQUIPMENT.
4	NO PIPE OR DUCT SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
5	ALL MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
6	ALL ROOFING WORK SHALL BE PERFORMED BY LANDLORD'S ROOFING CONTRACTOR (AT THIS CONTRACTOR'S EXPENSE) TO MAINTAIN EXISTING ROOF WARRANTY. VERIFY APPROVED ROOFING CONTRACTOR WITH LANDLORD PRIOR TO PERFORMING WORK.

MISSOURI PE COA #2016025677
Engineering, LLC
 1624 N Glen Eilyn
 Independence, MO 64056
 816-516-9540

PARAGON STAR
 CONCESSIONS AND RESTROOMS
 1421 NW RIVER RD.
 LEE'S SUMMIT, MO

STAMP 2-9-2026

REVISION DATE:
 1 HP RELOCATE 02.09.2026

ISSUE DATE:
 02 FEBRUARY 2026

M-1
CONCRETE CONSTRUCTION
 12600 E. 98TH ST.
 KANSAS CITY, MO 64138

This drawing has been prepared by the Engineer, or under his supervision. This drawings is provided as an instrument of service by the Designer/Engineer and is intended for the use on this project only. Pursuant to the Architectural Works Copyright Protection Act of 1990, all drawings, specifications, ideas and designs, including the overall form, arrangement and composition of spaces and elements appearing herein, constitute the original, copyrighted work of the Designer/Engineer. Any reproduction, use, or disclosure of information contained herein without prior written consent of the Engineer is strictly prohibited.
 © 2026 CG Engineering, LLC.