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Project 24058 — 3/20/2025

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room / 1 — Room Name / Number
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC Symbols

- 24"/12" — Sq. Duct Size (Width/Height)
- 24"x12"FO — Oval Duct Size (Width x Height)
- 18"Ø — Round Duct Size (Diameter)
- (E) — Existing Duct To Remain
- Duct To Be Demolished
- S/A — Supply Air
- V/A — Ventilation Air
- O/A — Outdoor Air
- R/A — Return Air
- T/A — Transfer Air
- E/A — General Exhaust Air
- KED — Kitchen Exhaust Duct
- FLUE — Flue Gas Vent
- C/A — Combustion Air
- Rect. Supply Duct Rise / Drop
- Round Supply Duct Rise / Drop
- Rect. Return Duct Rise / Drop
- Round Return Duct Rise / Drop
- Rect. Exhaust Duct Rise / Drop
- Round Exhaust Duct Rise / Drop

Grille, Register, Diffusers

Square Ceiling Diffuser — SD | 500 — 10"Ø/24x24 — Type (See Schedule); Airflow; Neck Size / Module Size

Round Ceiling Diffuser — CD11 | 100 — 6"Ø — TYP. X 4 — Type (See Schedule); Airflow; Neck Size; Type Count for Space

Sidewall Supply Grille — SD | 300 — 18"/6" — AFF:0" — Type (See Schedule); Airflow; Nominal Duct Size; Mounting Elevation (Centerline)

Linear Diffuser — SD-B | 200 — 8"Ø/2s/4'-0"L — Type (See Schedule); Airflow; Neck Size/ Slot(s)/ Active Length

Sidewall Return Grille — RG | 200 — 12"/6"/--- — AFF:0" — Type (See Schedule); Airflow; Nominal Duct Size; Mounting Elevation (Centerline)

Ceiling Return — RG | 200 — 8"Ø/24x24 — Type (See Schedule); Airflow; Neck Size / Module Size

Mechanical Equipment

- RTU-1 — Unit Identity
- (E)AHU-2 — Existing to Remain Equipment
- (R)AHU-3 — Existing Relocated Equipment
- Equipment By Others (Refer To Other Disciplines)

Mechanical Control Devices

- T — Thermostat
- H — Humidistat
- TS — Temperature Sensor
- HS — Humidity Sensor
- CO2 — Carbon Dioxide Detector
- HZG — Hazardous Gas Detector

Damper Types

- B — Manual Damper
- M — Motorized Damper
- G — Backdraft Damper
- E — Smoke Damper
- Fire Damper
- E + Fire — Comb. Fire/ Smoke Damper

HVAC SHEET INDEX

GENERAL HVAC NOTES

A. CONTRACTOR SHALL LOCATE THERMOSTATS AND HUMIDISTATS AT 4'-0" AFF UNLESS NOTED OTHERWISE. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 8" FROM LIGHT SWITCHES.
B. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER . WHERE INSTALLED ABOVE CEILINGS, CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH MINIMUM 1/2" FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET.
C. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
D. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH LIGHTING.
E. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
F. PROVIDE BALANCING DAMPERS FOR ALL AIR DEVICES AS REQUIRED TO BALANCE AIRFLOWS AS INDICATED ON PLANS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
G. HVAC EQUIPMENT SHALL NOT BE UTILIZED UNTIL ALL DUST PRODUCING CONSTRUCTION ACTIVITY HAS BEEN COMPLETED. CONTRACTOR SHALL BE REQUIRED TO OBTAIN APPROVAL FROM OWNER PRIOR TO EQUIPMENT STARTUP, AND TO REPLACE FILTERS ON HVAC EQUIPMENT UPON FINAL COMPLETION.
H. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
I. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
J. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
K. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOFS WITHOUT A 42" HIGH PARAPET OR GUARD RAIL. WHERE PROVIDING 10'-0" SEPARATION FROM ROOF EDGE IS NOT POSSIBLE, PROVIDE PERMANENT FALL ARREST ANCHORS COMPLIANT WITH ANSI/ASSP Z359.1. COORDINATE WITH GENERAL CONTRACTOR.
L. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
M. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
N. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
O. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
P. TRANSITION FROM PIPING AND DUCTWORK SIZES SHOWN TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
Q. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
R. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
S. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
T. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
U. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
V. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL MECHANICAL DEMOLITION NOTES

A. ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS DIRECTED BY OWNER.
B. WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
C. ALL DUCTWORK TAKEN OUT OF SERVICE SHALL BE REMOVED.
D. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
E. ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
F. REMOVE ALL MECHANICAL INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE WITH OWNER AND G.C.
G. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
H. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
I. FIELD VERIFY EXACT LOCATION OF ALL EXISTING MECHANICAL INSTALLATION INDICATED ON DRAWINGS.
J. ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN F. LEWIS 14654 KANSAS PROFESSIONAL ENGINEER

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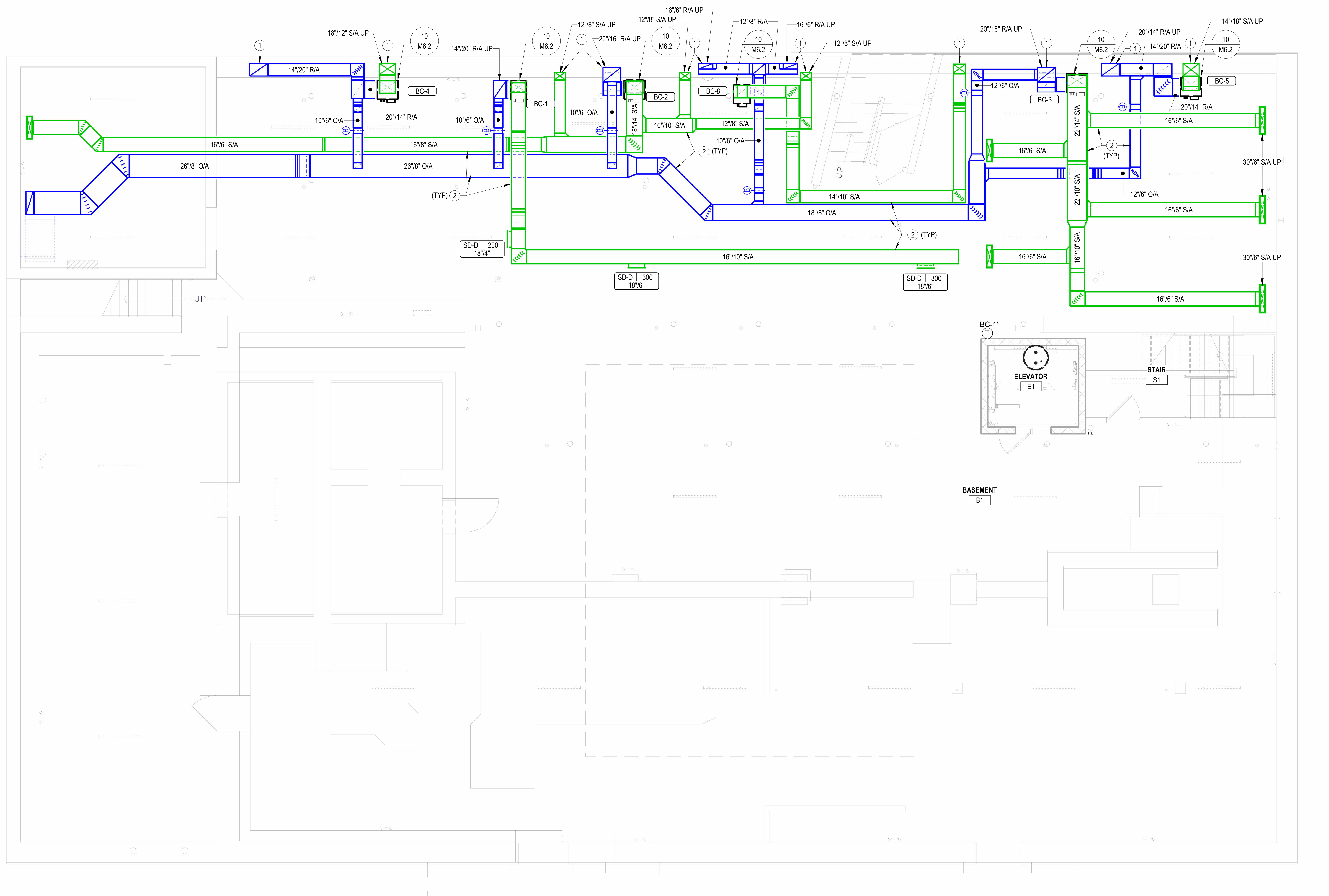
NOTES BY SYMBOL

1. ROUTE DUCTWORK UP IN CHASE TO FLOOR ABOVE. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS, OTHER TRADES, AND G.C.
2. ROUTE DUCTWORK THROUGH BASEMENT AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM. ROUTE DUCTWORK BETWEEN AND THROUGH TRUSSES WHERE POSSIBLE.



1 BASEMENT HVAC PLAN
M1.1 3/16" = 1'-0"

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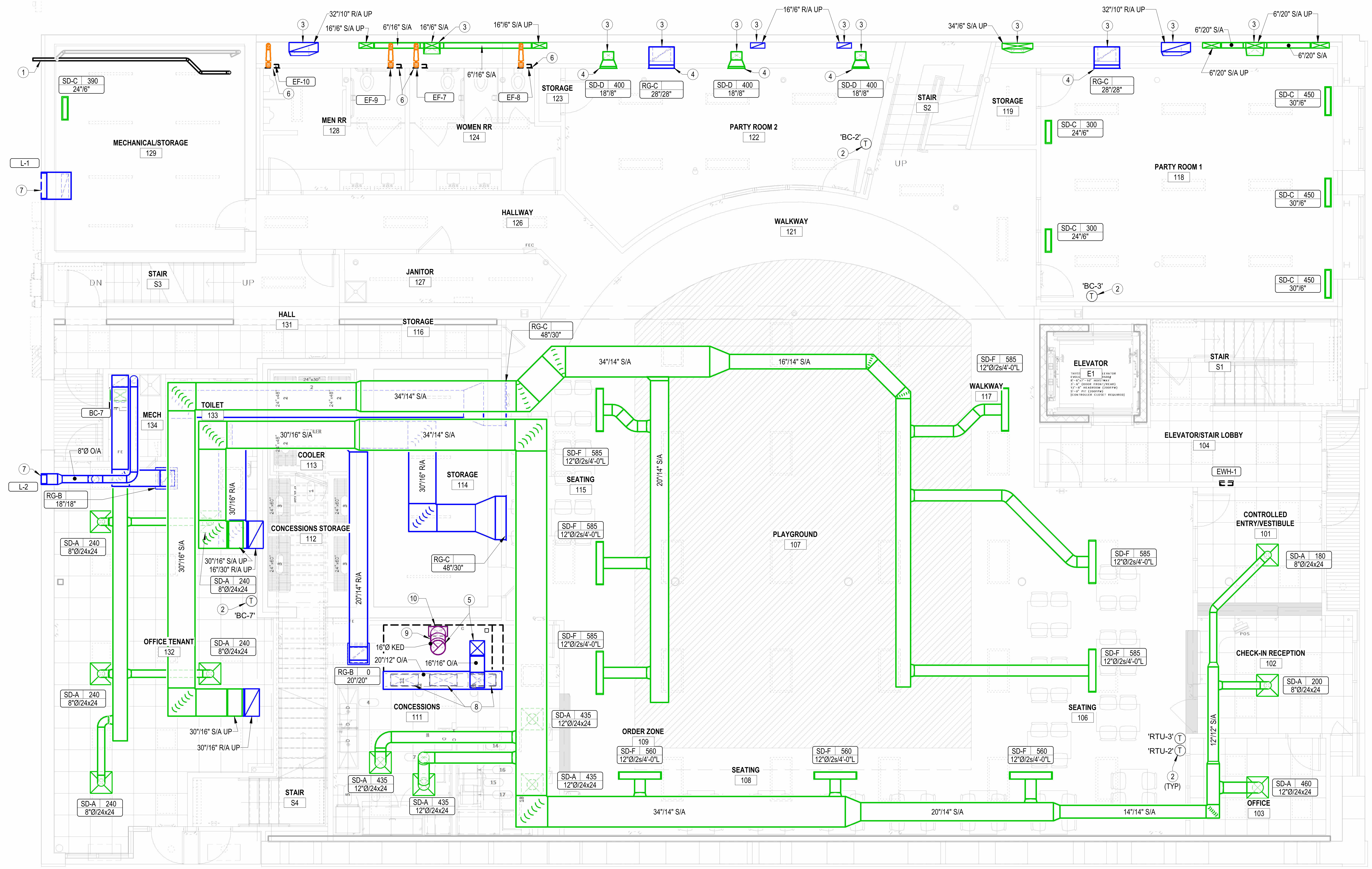
NOTES BY SYMBOL

1. ROUTE PVC INTAKE AND VENT PIPING FROM WATER HEATER TO CONCENTRIC VENT WALL CAP.
2. COORDINATE FINAL LOCATION OF ALL THERMOSTATS WITH OWNER PRIOR TO ROUGH-IN.
3. ROUTE DUCTWORK DOWN IN CHASE TO BASEMENT. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS, OTHER TRADES, AND G.C.
4. MOUNT GRILLE HIGH ON WALL. COORDINATE EXACT ELEVATION WITH ARCHITECT PRIOR TO INSTALLATION.
5. ROUTE KITCHEN HOOD EXHAUST DUCT AND MAKE-UP AIR DUCT UP THROUGH CHASE TO EQUIPMENT ON ROOF.
6. MOUNT CABINET FANS IN WALL AS HIGH AS POSSIBLE AND ROUTE EXHAUST DUCTWORK UP IN CHASE TO ABOVE CEILING AT MEZZANINE. SEE MEZZANINE PLAN FOR CONTINUATION.
7. MAINTAIN 10'-0" MIN. FROM EXHAUST TERMINATIONS TO O.A. INTAKES.
8. CONNECT TO 30"x12" CONNECTIONS AT SUPPLY PLENUM. SEE SHEET M5.1 AND 5.2 FOR KITCHEN HOOD INFO.
9. KITCHEN EXHAUST DUCT SHALL BE PRE-FABRICATED DOUBLE WALL INSULATED GREASE EXHAUST DUCT RATED FOR 0" CLEARANCE TO COMBUSTIBLES, METAL FAB OR EQUAL. PROVIDE WITH CLEANOUTS WITH ACCESS PANELS AS REQUIRED AT EACH FLOOR AND AT CHANGES IN DIRECTION. COORDINATE ACCESS PANEL LOCATIONS AND REQUIREMENTS WITH G.C. AND ARCH.
10. UTILIZE PRE-FAB GREASE DUCT TRANSITION WITH 0" CLEARANCE TO COMBUSTIBLES AND CONNECT TO EXHAUST HOOD.



1 FIRST FLOOR HVAC PLAN
M1.2 3/16" = 1'-0"

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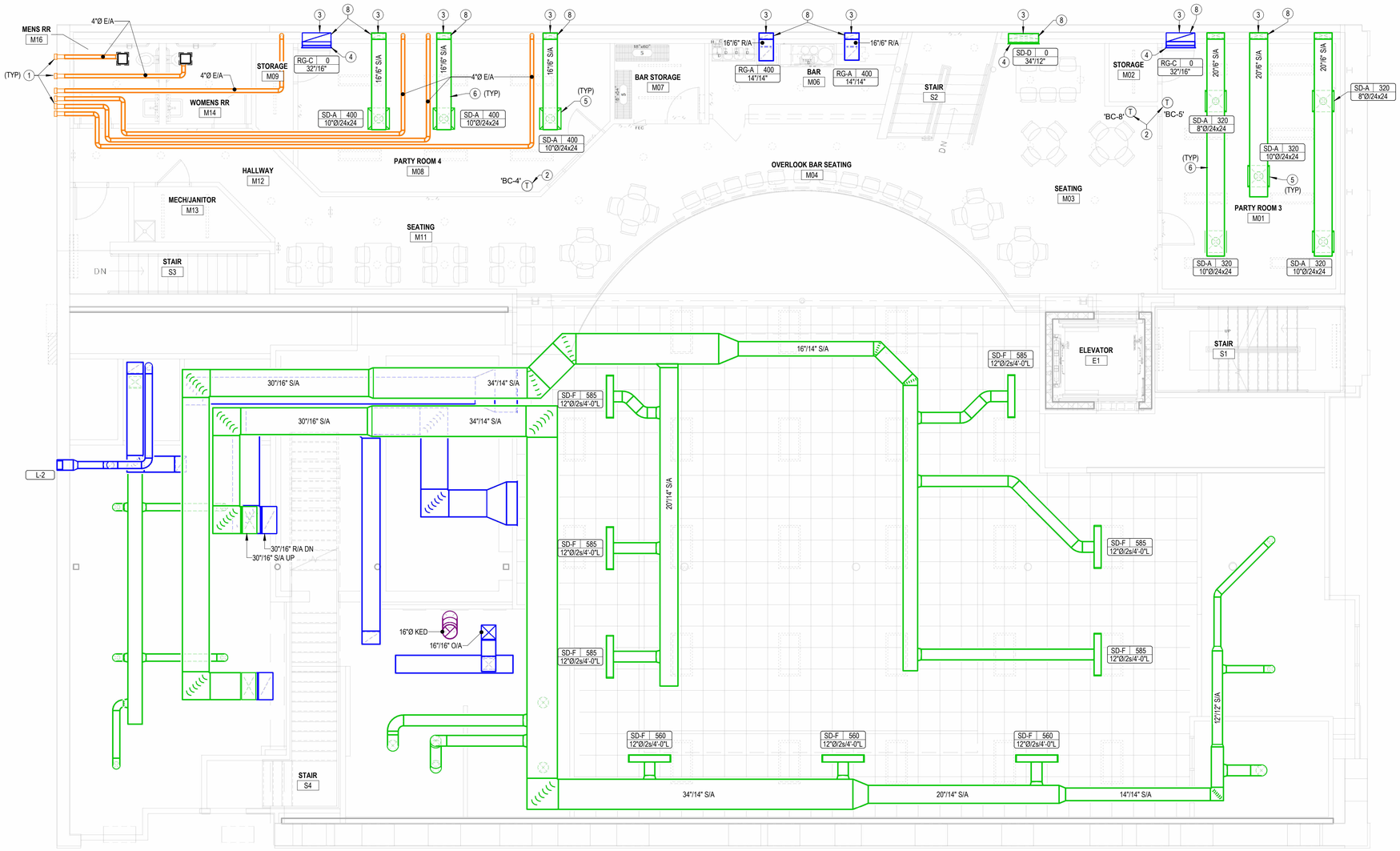
NOTES BY SYMBOL

1	ROUTE EXHAUST DUCT TO WALL CAP. MAINTAIN 10'-0" MIN. FROM EXHAUST TERMINATION TO O.A. INTAKES.
2	COORDINATE FINAL LOCATION OF ALL THERMOSTATS WITH OWNER PRIOR TO ROUGH-IN.
3	ROUTE DUCTWORK DOWN IN CHASE TO BASEMENT. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS, OTHER TRADES, AND G.C.
4	MOUNT GRILLE HIGH ON WALL. COORDINATE EXACT ELEVATION WITH ARCHITECT PRIOR TO INSTALLATION.
5	PROVIDE ALL CEILING AIR DEVICES IN RATED CEILING MEMBRANES WITH CEILING RADIATION DAMPERS AND FIRE RATED BLANKETS, AS REQUIRED.
6	ROUTE DUCTWORK BETWEEN AND THROUGH TRUSSES WHERE POSSIBLE. COORDINATE ROUTING WITH OTHER TRADES AND EXISTING CONDITIONS.
8	PROVIDE ALL DUCT PENETRATIONS IN RATED CEILING MEMBRANES WITH CEILING RADIATION DAMPERS, AS REQUIRED.



1 / M1.3 MEZZANINE HVAC PAN
3/16" = 1'-0"

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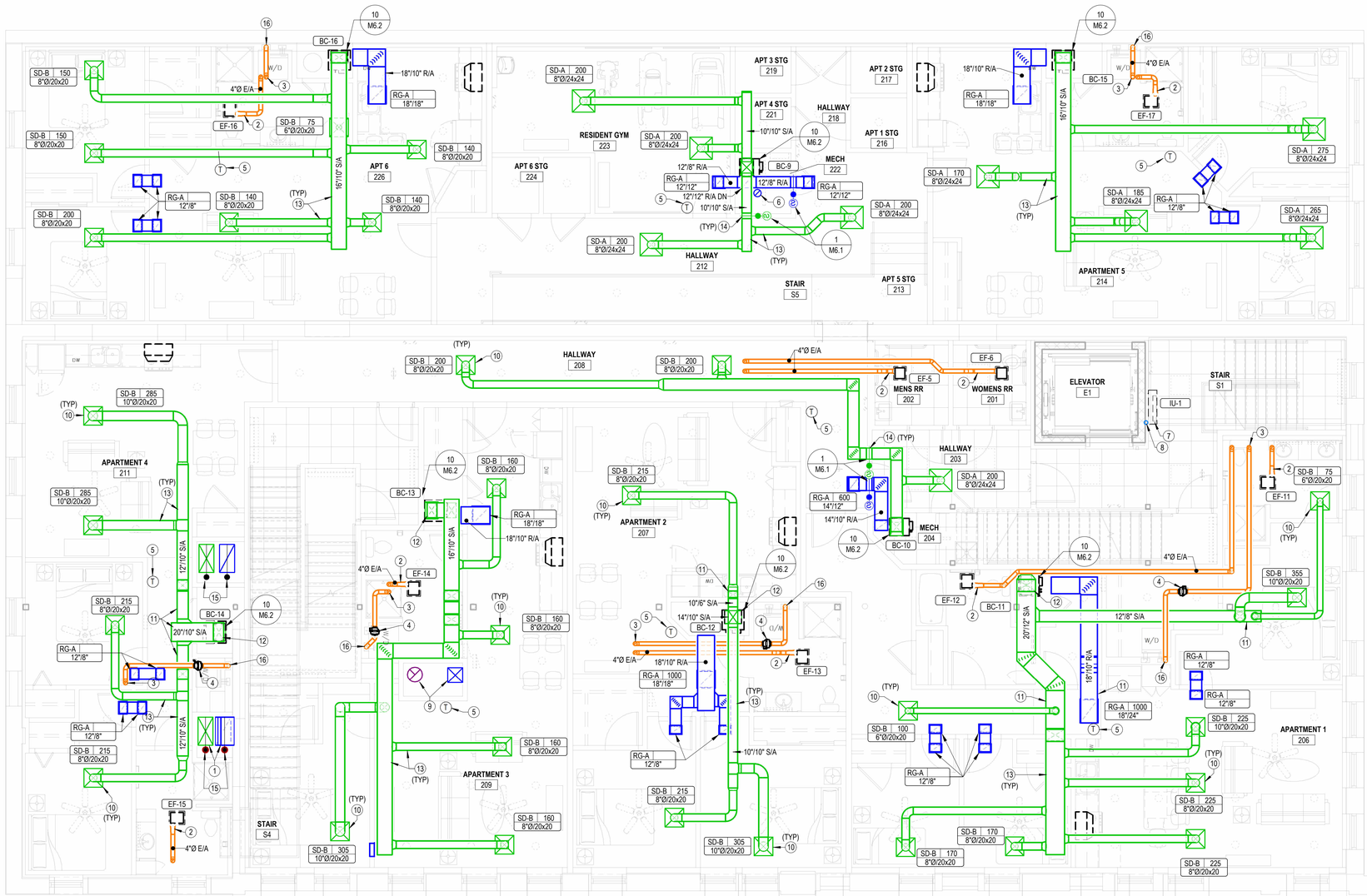

1 M1.4 SECOND FLOOR HVAC PLAN
3/16" = 1'-0"

NOTES BY SYMBOL

1. ROUTE SUPPLY AND RETURN DUCT UP AND TRANSITION TO CONNECTIONS AT EQUIPMENT ON ROOF.
2. ROUTE EXHAUST DUCT FROM EXHAUST FAN TO ROOF TERMINATION. SEE HVAC ROOF PLAN FOR CONTINUATION.
3. ROUTE 4" DRYER EXHAUST DUCT TO ROOF TERMINATION. SEE HVAC ROOF PLAN FOR CONTINUATION.
4. PROVIDE DRYER BOOSTER EXHAUST FAN EQUAL TO FANTECH DBF 110 WITH PRESSURE SENSING SWITCH. PROVIDE FIRE RATED ACCESS PANEL IN CEILING FOR ACCESS TO FAN, COORDINATE REQUIREMENTS WITH ARCH AND G.C.
5. COORDINATE FINAL LOCATION OF ALL THERMOSTATS WITH OWNER PRIOR TO ROUGH-IN.
6. ROUTE O.A. INTAKE UP TO GRAVITY INTAKE HOOD ON ROOF. SEE ROOF PLAN FOR CONTINUATION.
7. PROVIDE CONDENSATE LIFT FOR INDOOR UNIT CONCEALED IN UNIT BODY AND ROUTE CONDENSATE UP IN WALL TO INDIRECT CONNECTION AT FLOOR DRAIN IN MECHANICAL ROOM ABOVE.
8. ROUTE REFRIGERANT PIPING FROM INDOOR UNIT CONCEALED IN WALL UP THROUGH MECHANICAL ROOM ABOVE TO OUTDOOR UNIT. SEE ROOF PLAN FOR CONTINUATION.
9. ROUTE KITCHEN HOOD EXHAUST DUCT AND MAKE-UP AIR DUCT UP THROUGH CHASE TO EQUIPMENT ON ROOF.
10. PROVIDE ALL CEILING AIR DEVICES IN RATED CEILING MEMBRANES WITH CEILING RADIATION DAMPERS AND FIRE RATED BLANKETS, AS REQUIRED.
11. ROUTE SUPPLY DUCT IN SOFFIT. COORDINATE WITH ARCH AND G.C.
12. PROVIDE ALL DUCT PENETRATIONS IN RATED CEILING MEMBRANES WITH CEILING RADIATION DAMPERS, AS REQUIRED.
13. ROUTE DUCTWORK BETWEEN AND THROUGH TRUSSES WHERE POSSIBLE. COORDINATE ROUTING WITH OTHER TRADES AND EXISTING CONDITIONS.
14. PROVIDE ACCESS PANEL IN CEILING AT FIRE SMOKE DAMPERS. COORDINATE REQUIREMENTS WITH ARCHITECT.
15. PROVIDE FIRE DAMPER WHERE DUCTS PENETRATE RATED FLOOR. PROVIDE ACCESS PANELS AS REQUIRED, COORDINATE WITH G.C.
16. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO ROOF JACK WITH BACKDRAFT DAMPER. SEE OVERALL MECHANICAL PLANS FOR UNIT SPECIFIC ROUTING. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 14' + (2) 90° ELBOWS. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.

NOTE:
VENTILATION FOR APARTMENTS IS PROVIDED BY LOCAL EXHAUST SYSTEMS PER 2015 INTERNATIONAL MECHANICAL CODE. EXHAUST FANS SHALL BE EQUIPPED WITH CONTROLS TO OPERATE INTERMITTENTLY. SEE ELECTRICAL PLANS FOR MINUTE RUN TIME FOR EACH FAN.

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JOHN T. LEWIS — 14654 — KANSAS — PROFESSIONAL ENGINEER

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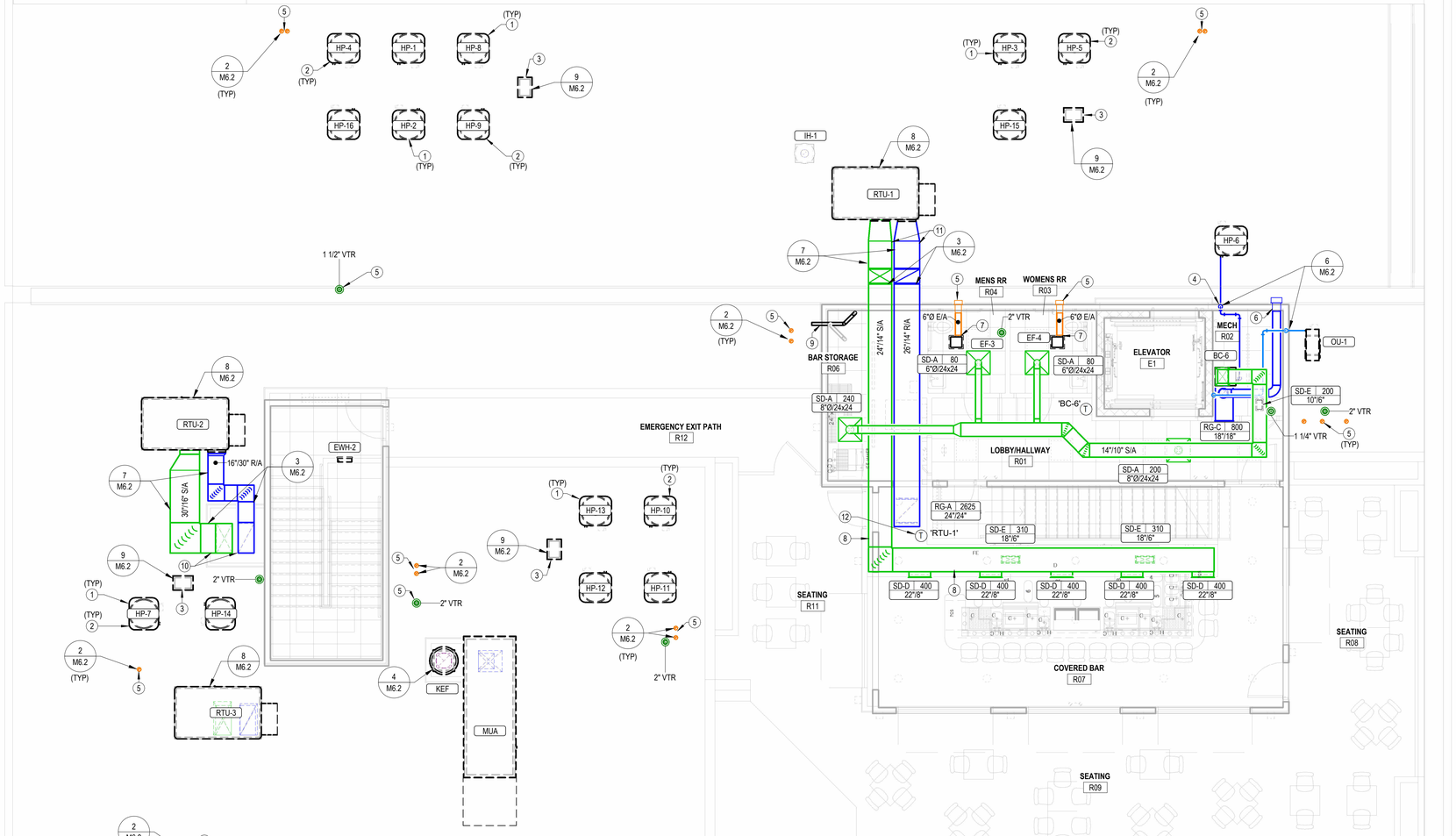
NOTES BY SYMBOL

1	MOUNT HEAT PUMP ON ROOF EQUIPMENT RAILS EQUAL TO RPS COMPATIBLE WITH ROOF TYPE AND SLOPE. COORDINATE EXACT REQUIREMENTS WITH G.C.
2	ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO MATCHING BLOWER COIL. SIZE PIPING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR LINE LENGTH AND EQUIPMENT HEIGHT, AND PROVIDE ALL OTHER REQUIRED ACCESSORIES. PROVIDE RPH AWI ROOF VAULT WITH PENETRATION SEALS FOR REFRIGERANT AND CONDUIT PENETRATIONS, COORDINATE INSTALLATION REQUIREMENTS WITH G.C.
3	PROVIDE RPH AWI ROOF VAULT WITH PENETRATION SEALS FOR REFRIGERANT AND CONDUIT PENETRATIONS OF ROOF, COORDINATE INSTALLATION REQUIREMENTS WITH G.C. AND E.C.
4	ROUTE REFRIGERANT FROM HEAT PUMP TO MATCHING INDOOR UNIT CONCEALED IN WALLS AND ABOVE CEILING. PENETRATE EXTERIOR WALL 18" A.F.G. AND PROVIDE WALL PENETRATION ASSEMBLY EQUAL TO AIREX TITAN OUTLET.
5	MAINTAIN 10'-0" MIN. FROM EXHAUST DUCTS AND VENTS TO O.A. INTAKES ON ROOF.
6	ROUTE O.A. INTAKE TO WALL CAP.
7	ROUTE EXHAUST DUCT TO WALL CAP.
8	ROUTE SUPPLY DUCT IN SOFFIT. COORDINATE WITH ARCH AND G.C.
9	ROUTE PVC INTAKE AND VENT PIPING FROM WATER HEATER TO CONCENTRIC VENT WALL CAP.
10	ROUTE SUPPLY AND RETURN DUCT FROM PACKAGED UNIT ACROSS ROOF, PENETRATE EXTERIOR WALL, AND ROUTE DOWN THROUGH CHASE. PROVIDE A LAYER OF 5/8" GYP WITH R-25 INSULATION AROUND DUCTWORK AT ROOF ELEVATION. COORDINATE REQUIREMENTS WITH ARCH AND G.C.
11	ROUTE SUPPLY AND RETURN DUCT FROM PACKAGED UNIT ACROSS ROOF AND UP EXTERIOR WALL. PENETRATE AS HIGH AS POSSIBLE BELOW STRUCTURE. COORDINATE EXACT ROUTING WITH OTHER TRADES.
12	COORDINATE FINAL LOCATION OF ALL THERMOSTATS WITH OWNER PRIOR TO ROUGH-IN.



1 M1.5 ROOF HVAC PLAN
3/16" = 1'-0"

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101 N. SANTA FE AVE.

REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN T. LEWIS 14654 REGISTERED PROFESSIONAL ENGINEER STATE OF KANSAS

2025.03.20 16:39:26-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

M1.5

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Project 24058 3/20/2025

EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit Mark: MUA-1

Qty	Accurex Model	Volume	External SP	Total SP	MCA	MOP	Weight	SCCR
1	XDGX-P116-H12-D1-3	1,680 CFM	0.5 in. wg	1.321 in. wg	22.5	30	1,442 lb	5kA

Motor Information

Size	V/C/P	Enclosure	Motor with Shaft Gounding	Motor RPM	Operating Power
3/4 hp	208/60/3	ODP	No	1200	0.54 hp

Heating

Type	Gas Type	Temperature: Winter DB	Temperature: Max Δ	Temperature: Max LAT	Energy: Input	Energy: Output	Energy: Efficiency	Connection Gas (IN)	Building Gas Pressure	Control Access	Gas Pressure: Min	Gas Pressure: Max
Direct Gas	Natural	0.9 F	69.1 F	70.0 F	136.3 MBH	125.4 MBH	92%	3/4"	1/2 PSI	Right Hand	7 in. wg	0.5 PSI

Cooling

Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Entering Air (F): Dry	Entering Air (F): Wet	Leaving Air (F): Dry	Leaving Air (F): Wet
Packaged DX	DX38S02S10-30x30	2	10	269 ft/min	45.7 MBH	44.0 MBH	101.3 F	77.4 F	74.1 F	70.2 F

Coil SP	Refrigerant	Suction Temp	Liquid Temp	Super Heat	Code 18/19	Suction Conn Qty / Size	Liquid Conn Qty / Size
NA	R-454B	58.2 F	110 F	8 F	0	NA	NA

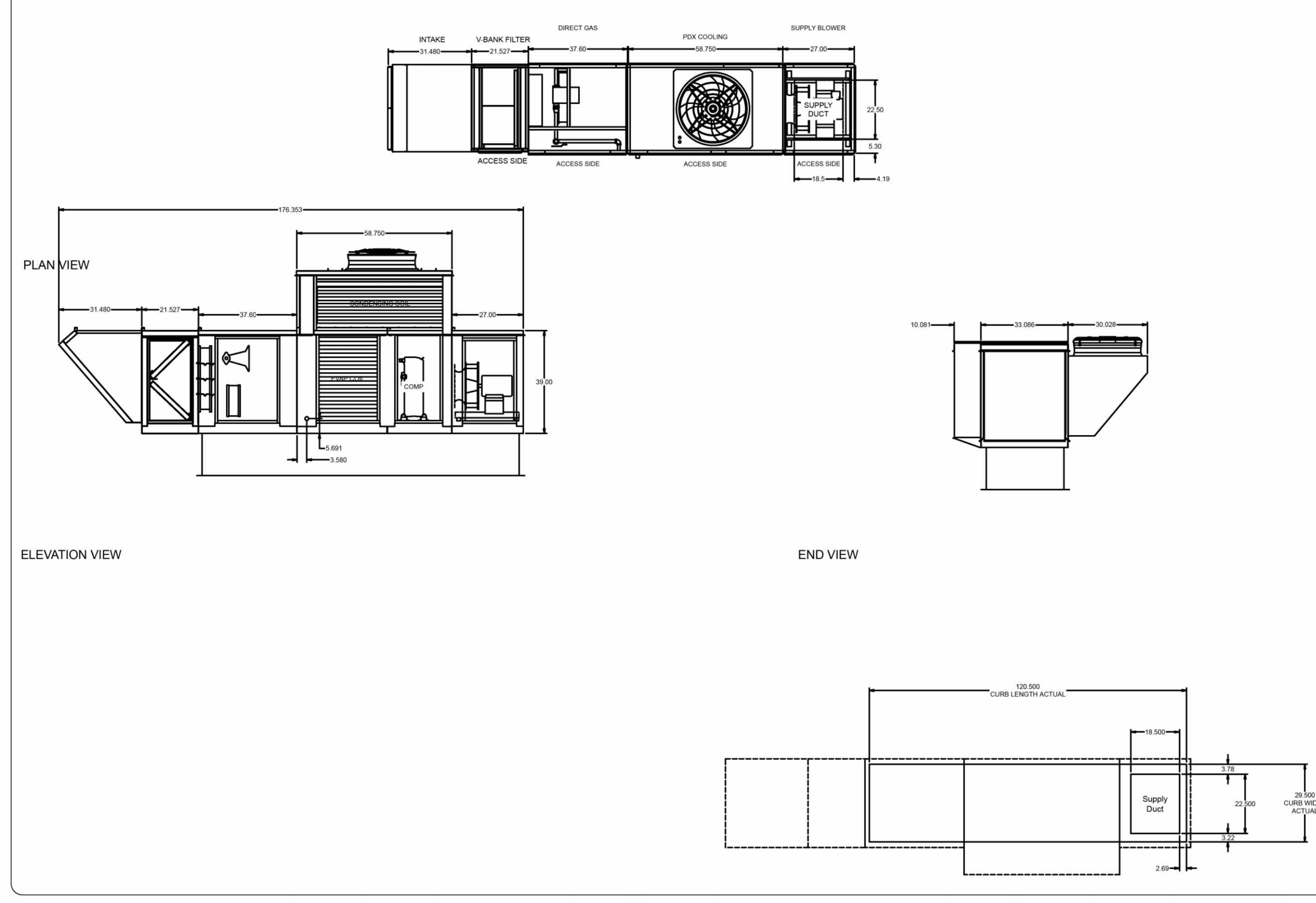
Outlet Sound Power By Octave Band

62.5	125	250	500	1000	2000	4000	8000	LwA	dBA	Sones
65.1	64.3	63.3	63.2	63.3	59.8	57.3	53.3	67.5	56.5	7.2

- LwA - A weighted sound power level based on ANSI S1.4
- dBA - A weighted sound pressure level base on 11 f dB attenuation per octabe band at 5.0 ft.
- Noise Criteria (NC) based on an average attenuation of 11.5 dB per octabe band at 5.0 ft.

OPTIONS AND ACCESSORIES

- Air Flow Arrangement: Variable Volume
- Weatherhood: Aluminum Mesh, 16x20x2 - (4)
- Filter Section: MERV8, 16x20x2 - (4)
- Damper: Inlet
- Outdoor Air Intake Position: End
- Discharge Position: Bottom
- Coating: Galvanized
- Cooling Coil Coating - None
- Insulation: Double Wall - Tempering On
- Supply Fan Control: VFD
- VFD Control: External 0-10 VDC
- Hinged Access
- Access Side: Right-Hand
- Unit Weight: 1442 lb
- Control Center
- Freeze Protection
- Heat Inlet Air Sensor
- Cool Inlet Air Sensor
- Dirty Filter Switch
- Unit Controls: Microprocessor
- Temperature Control: Discharge



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MUA-1
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HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.): LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST: TOTAL CFM	COLLAR(S): WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY: MUA CFM	AC CFM	HANGING WEIGHT LBS.	SECTION LOCATION
1	KEH-1	XXEW-120-S	120	54	24	430 SS WHERE EXPOSED	HEAVY	2100	10	20		2100	0.491	1680		557	SINGLE

HOOD INFORMATION

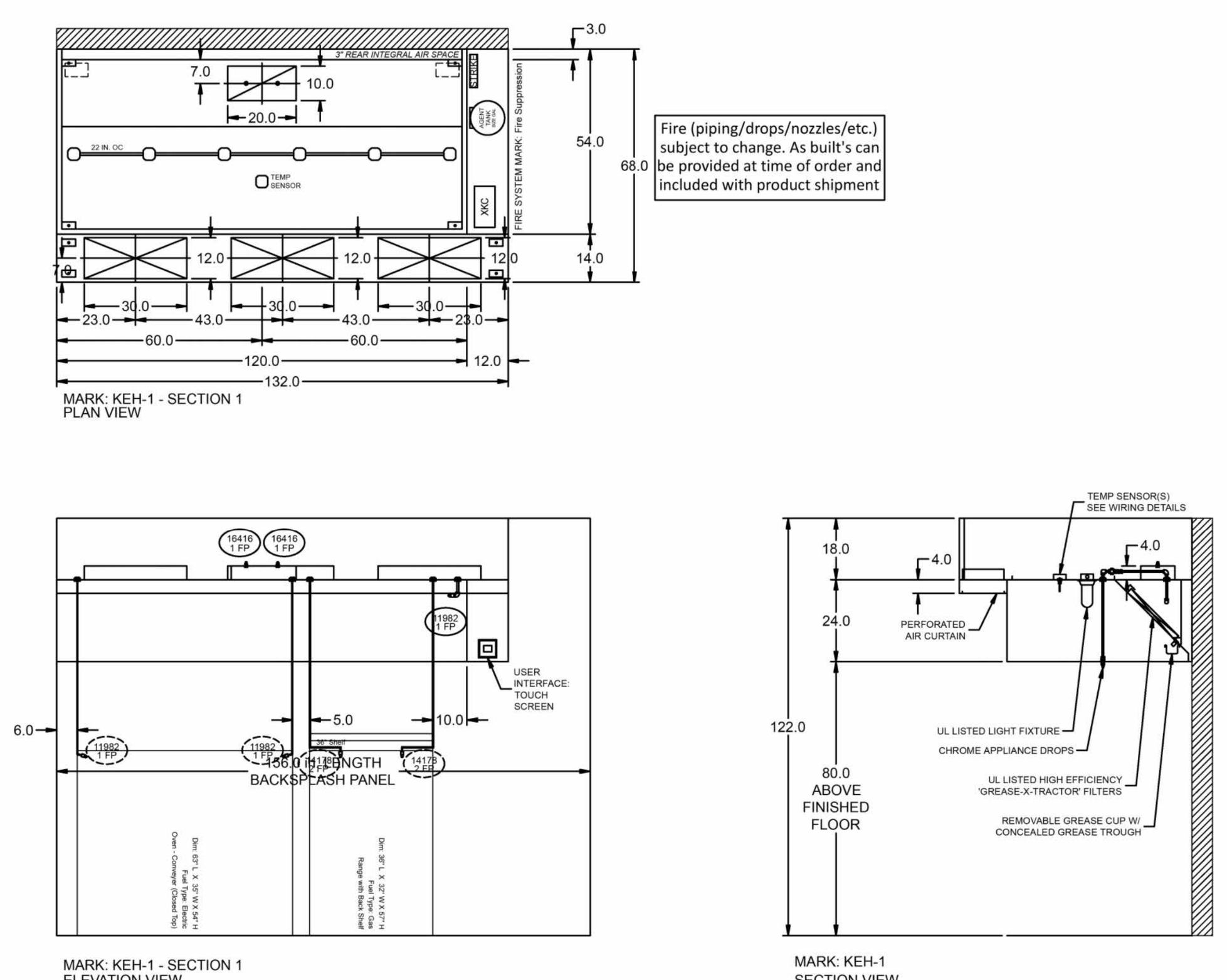
HOOD NO.	MARK	LIGHTING DETAILS: FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	GREASE FILTRATION DETAILS: TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S): LOCATION	FIRE SYSTEM: TYPE	SIZE	CONTROLS: MODEL	INTERFACE
1	KEH-1	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	6	50.71	X-TRACTOR (SPARK ARRESTOR INCL.) STAINLESS STEEL	0 6	16 20	20	RIGHT	AMEREX KP	3.75	XKC	TOUCHSCREEN

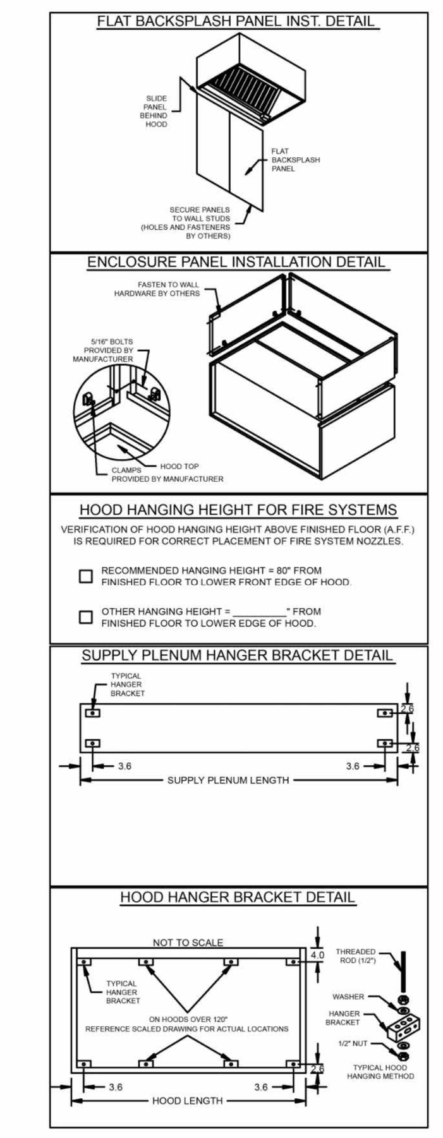
SUPPLY PLENUM INFORMATION

HOOD NO.	MARK	POS.	TYPE	SIZE (IN.) L	W	H	INSULATED	DAMPER(S)	LED LIGHT(S): SUPPLIED	QTY	TOTAL CFM	TOTAL S.P.	COLLARS: TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	KEH-1	FRONT	ASP	132	14	4	NO	YES	NO		1680	0.01	MUA	FACTORY	3	12	30		560	224

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
- BACK INTEGRAL AIR SPACE - 3 IN WIDE
- 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED
- FACTORY MOUNTED EXHAUST COLLAR(S)
- BACKSPLASH 122.00 IN HIGH 156.00 IN LONG
- PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
- STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH





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NOTE: Roof Opening Requirements:

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

[illegible]

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.): LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST: TOTAL CFM	COLLAR(S): WIDTH	LENGTH	DIA.	CFM	S.P.	SUPPLY: MUA CFM	AC CFM	HANGING WEIGHT LBS.	SECTION LOCATION
1	KEH-1	XXEW-120-S	120	54	24	430 SS WHERE EXPOSED	HEAVY	2100	10	20		2100	0.491	1680		557	SINGLE

HOOD INFORMATION

HOOD NO.	MARK	LIGHTING DETAILS: FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	GREASE FILTRATION DETAILS: TYPE / MODEL MATERIAL	QTY	SIZE (IN.) L	H	UTILITY CABINET(S): LOCATION	FIRE SYSTEM: TYPE	SIZE	CONTROLS: MODEL	INTERFACE
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1	KEH-1	FRONT	ASP	132	14	4	NO	YES	NO		1680	0.01	MUA	FACTORY	3	12	30		560	224

HOOD OPTIONS

- UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
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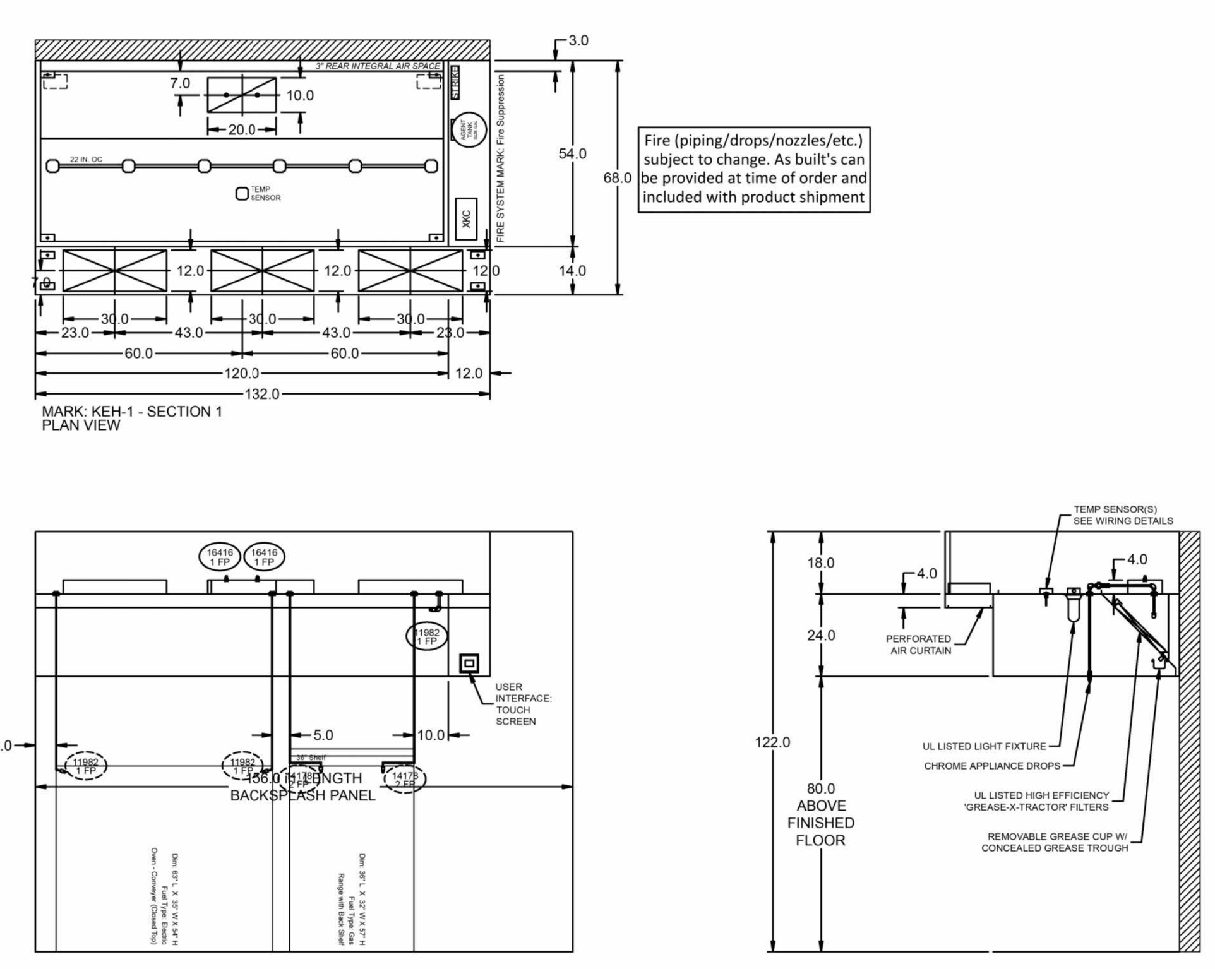

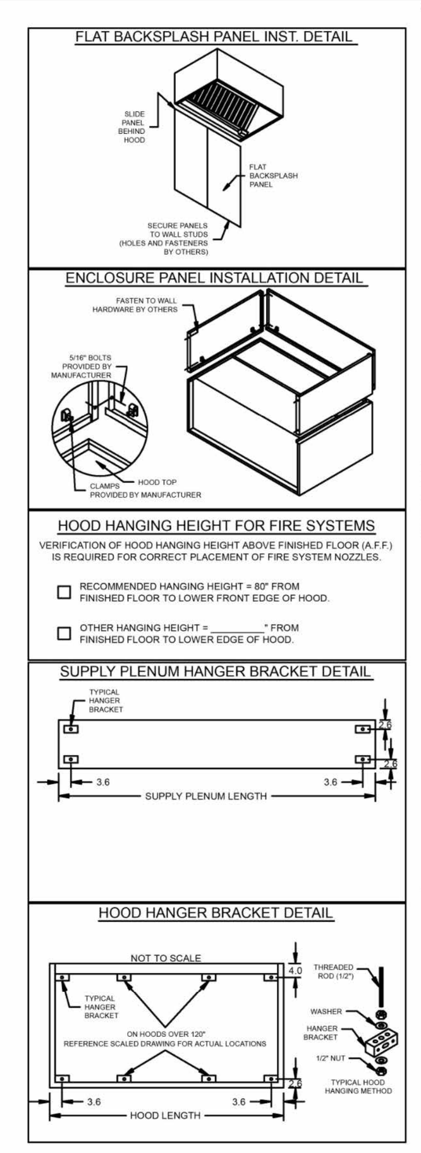

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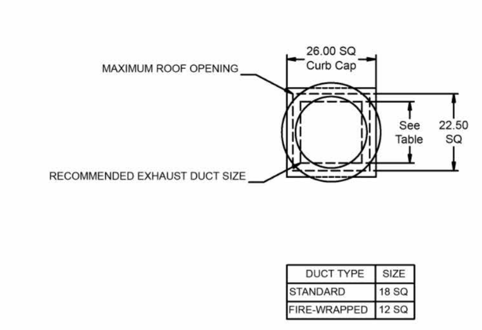
Direct Drive Upblast Centrifugal Roof Exhaust Fan

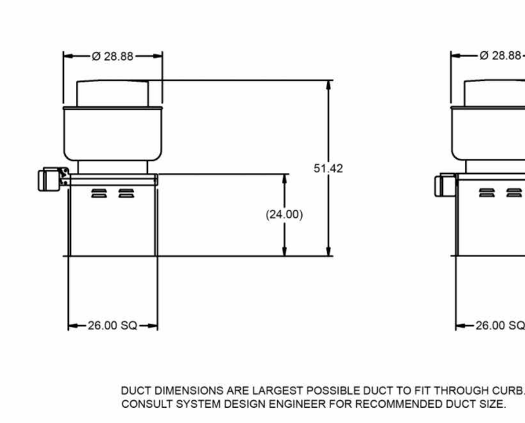
MARK INFORMATION: QTY	MARK	FAN INFORMATION: MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	MOTOR INFORMATION: SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	KEF-1	XCUE-160HP-VG	2,100	1.5	1,654	0.93	99	1	208/60/1	TN	1725	1	8.8

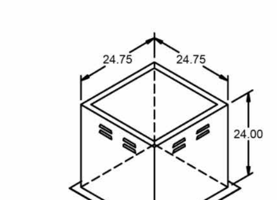
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

KEF-1 : SELECTED OPTIONS AND ACCESSORIES

- One piece fully welded windband
- Tapered bushing wheel hub
- Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
- Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
- Larger Curb Cap Size - 26 Square
- UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
- Switch, NEMA-3R, Toggle,
- Hinge, Factory Installed
- High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
- Grease Trap (PN 475538)
- Aluminum Wheel Material







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101 N. SANTA FE AVE.

REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

2025.03.20 16:39:52-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

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Project 24058 3/20/2025

SERVICE INFORMATION

MARK: FACTORY CERTIFICATION	MODEL: CERTIFICATION
ITEM: SERVICE	QUANTITY: 1

ACCUREX AFTERMARKET CERTIFICATION PROGRAM CONFIRMS THE EQUIPMENT IS INSTALLED AND OPERATING ACCORDING TO THE MANUFACTURER'S REQUIREMENTS BY A FACTORY AUTHORIZED SERVICER (FAS). INSTALLATION AND START-UP OF EQUIPMENT PER THE MANUFACTURER'S INSTALLATION AND OPERATIONS MANUAL TO BE PERFORMED BY OTHERS PRIOR TO THIS SERVICE. A WRITTEN REPORT WILL BE PROVIDED AFTER THIS SERVICE IS COMPLETED.

TRIP QUANTITY: 2
TRIP 1: PRE-SITE VISIT TO REVIEW INSTALLATION QUESTIONS (UP TO TWO HOURS ONSITE)

TRIP 2: CERTIFICATION VISIT TO PERFORM THE CERTIFICATION WORK (TIME ONSITE TBD BASED ON EQUIPMENT SELECTED)

EQUIPMENT INCLUDED IN CERTIFICATION:
CONTROLS VARIABLE VOLUME
MUA-1
KEF-1
KEH-1

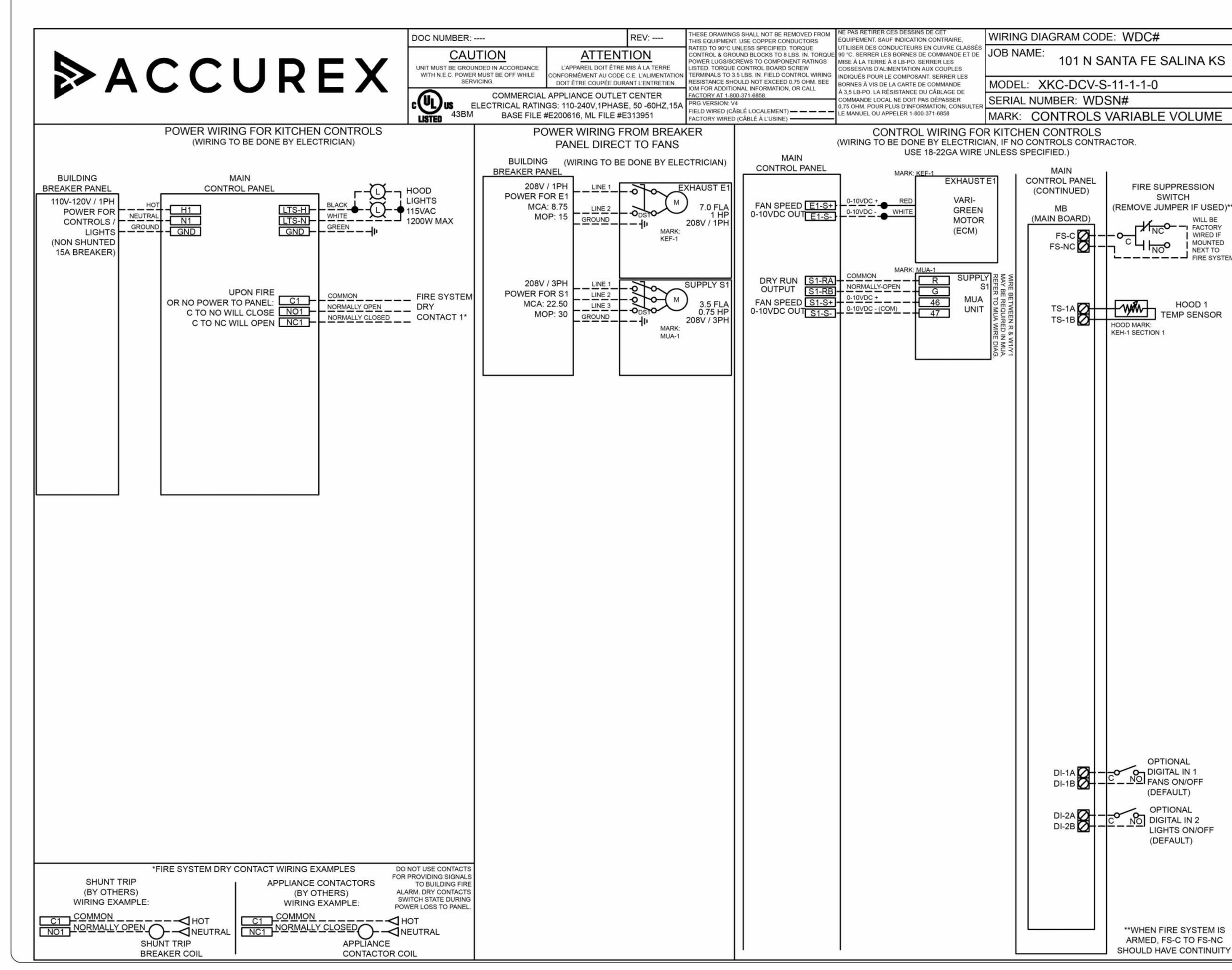
101 N SANTA FE SALINA KS — FACTORY CERTIFICATION
PROJECT 9/26/2024

ACCUREX

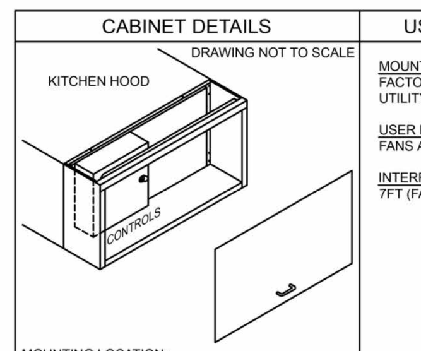
CONTROL INFORMATION

MARK	ELECTRICAL CONTROL PACKAGE MODEL	ELECTRICAL CONTROL PACKAGE LOCATION	USER INTERFACE TYPE	USER INTERFACE LOCATION	FAN #	TYPE	FAN	FAN MARK	ZONE	CFM	MOTOR HP	MOTOR VOLT	CYCLE	MOTOR PHASE	MOTOR STARTER IN PANEL	VFD IN PANEL
CONTROLS VARIABLE VOLUME	XKC-DCV-S-11-1-1-0	RIGHT CABINET ON KEH-1	FULL COLOR TOUCHSCREEN	CABINET – RIGHT CABINET ON KEH-1	1	EXHAUST	E1	KEF-1	1	2100	1	208	60	1	NO	NO
					2	SUPPLY	S1	MUA-1	1	1680	0.75	208	60	3	NO	NO

CONTROL FEATURES
- HOOD LIGHT CONTROL
- TEMP SENSORS (FACTORY INSTALLED) - QTY. 1
- DRY FIRE CONTACTS - QTY. 1
- LIGHTS OFF DURING FIRE
- EXHAUST MAX DURING FIRE
- SUPPLY OFF DURING FIRE



CABINET DETAILS



MOUNTING LOCATION:
UTILITY CABINET ON HOOD
(INNER CONTROL BOX: 12 X 20 X 6)

NOTES:
1) WHEN CONTROLS ARE MOUNTED IN HOOD-MOUNTED OR WALL-MOUNTED UTILITY CABINET, FOR HOOD OR WALL CABINET DIMENSIONS SEE HOOD SUBMITTAL.

2) MINIMUM OF 36" OF CLEARANCE RECOMMENDED IN FRONT OF CONTROL CABINET

USER INTERFACE DETAILS

MOUNTING TYPE
FACTORY MOUNTED:
UTILITY CABINET - RIGHT END OF HOOD

USER INTERFACE CONTROL
FANS AND LIGHTS

INTERFACE CABLE LENGTH
7FT (FACTORY PROVIDED)

ZONE CONFIGURATION

ZONE #	ZONE	ROOM TEMP
1	Z1	PRESET

WIRING DIAGRAM CODE: WDC#
JOB NAME: 101 N SANTA FE SALINA KS
MODEL: XKC-DCV-S-11-1-1-0
SERIAL NUMBER: WDSN#
MARK: CONTROLS VARIABLE VOLUME

DEFAULT SETTINGS / PARAMÈTRES PAR DÉFAUT
FACTORY SETTINGS
TYPE: VAV
CONFIGURATION: STANDARD
ZONES: 1
HOODS: 1
SUMPS: 0

101 N SANTA FE SALINA KS — CONTROLS VARIABLE VOLUME
PROJECT 9/26/2024

ACCUREX

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Project 24058 3/20/2025

LOUVER SCHEDULE

Mark	Manufacturer	Model	Finish	Application	Damper	Free Area	Dimensions			Elevation to Midpoint	Description	Notes
						Opening	Width	Height	Depth			
L-1	Greenheck Fan Corp.	ESJ-602	Kynar finish in color as selected by Architect	Intake	None	53.5%	2'-6"	2'-0"	6"	5'-11"	Extruded Aluminum Non-Drainable Blade Louver	1,2
L-2	Greenheck Fan Corp.	ESJ-602	Kynar finish in color as selected by Architect	Intake	None	53.5%	1'-0"	1'-0"	6"	12'-0"	Extruded Aluminum Non-Drainable Blade Louver	1,2

Notes:
1. Coordinate frame and sleve requirements with G.C.
2. Provide with bird screen.

EXHAUST FAN SCHEDULE

Mark	Manufacturer	Model	Description	Installed Location	Design Airflow Rate	Fan Design ESP	Voltage/Ph	FLA	Motor Power	Schedule Notes
EF-1	Broan	BHF80	Ceiling Fan/ Heater	Ceiling	75	0.25 in-wg	115 V/1Ph	0 A	0.01 hp	1,2,3
EF-2	Greenheck	SP-110-VG	Ceiling Fan	Ceiling	75	0.25 in-wg	115 V/1Ph	0 A	0.01 hp	1,2,3
EF-3	Greenheck	SP-110-VG	Ceiling Fan	Ceiling	75	0.25 in-wg	115 V/1Ph	0 A	0.01 hp	1,2,3
EF-4	Greenheck	SP-110-VG	Ceiling Fan	Ceiling	75	0.25 in-wg	115 V/1Ph	0 A	0.01 hp	1,2,3
EF-5	Greenheck	SP-110-VG	Ceiling Fan	Ceiling	75	0.25 in-wg	115 V/1Ph	0 A	0.01 hp	1,2,3
EF-6	Greenheck	SP-110-VG	Ceiling Fan	Ceiling	75	0.25 in-wg	115 V/1Ph	0 A	0.01 hp	1,2,3
EF-7	Greenheck	SP-80-L	Ceiling Fan	Wall	75	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2
EF-8	Greenheck	SP-80-L	Ceiling Fan	Wall	75	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2
EF-9	Greenheck	SP-80-L	Ceiling Fan	Wall	75	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2
EF-10	Greenheck	SP-80-L	Ceiling Fan	Wall	75	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2
EF-11	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4
EF-12	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4
EF-13	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4
EF-14	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4
EF-15	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4
EF-16	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4
EF-17	Greenheck	SP-80-L	Ceiling Fan	Ceiling	80	0.25 in-wg	115 V/1Ph	1 A	0.04 hp	1,2,3,4

Notes:
1. Provide factory mounted and wired disconnect switch.
2. Provide with speed controller mounted to motor.
3. Provide exhaust fan with ceiling radiation damper.
4. Exhaust fan to be controlled with timer switch equal to 'AirCycler SmartExhaust' provided by E.C., coordinate with E.C.

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

Mark	Manufacturer	Model	Application	Material	Finish	Installation	Border Application	Include Damper	Description	Notes
RG-A	Titus	50F	Return Air	Aluminum	Mill	Ceiling	Surface Mount	No	Return Grille	
RG-B	Titus	50F	Return Air	Aluminum	Mill	Ceiling	Lay-In Panel Frame	No	Return Grille	
RG-C	Titus	350RL	Return Air	Steel	White Enamel	Wall Mount	Surface Mount	No	Return Grille	
SD-A	Titus	TMS	Supply Air	Steel	White Enamel	Ceiling	Lay-In Full Face	No	Ceiling Diffuser	
SD-B	Titus	TMS	Supply Air	Steel	White Enamel	Ceiling	Surface Frame	No	Ceiling Diffuser	
SD-C	Titus	CT-540	Supply Air	Aluminum	Mill	Wall Mount	Wall Frame	No	Linear Bar Grille	
SD-D	Titus	300R	Supply Air	Steel	White Enamel	Wall Mount	Surface Mount	Yes	Double Deflection Supply Grille	
SD-E	Titus	300R	Supply Air	Steel	White Enamel	Ceiling	Surface Mount	Yes	Double Deflection Supply Grille	
SD-F	Titus	FL-15	Supply Air	Aluminum	White Enamel	Ceiling	Lay-In Full Face	No	Linear Diffuser	

NOTES:
- Maximum noise criteria shall be 25.
- Runouts to diffusers shall be same size as neck, U.N.O.
- Provdise mounting frame as required for ceiling type. Coordinate with Architect.

GRAVITY VENTILATOR SCHEDULE

Mark	Manufacturer	Model	Application	Design Airflow Rate	Max Pressure Drop	Throat		Weight	Notes
						Area	Velocity		
IH-1	Greenheck	GRSI-8	Intake	150	0.06 in-wg	0.35 SF	430 FPM	35 lb	1

NOTES:
1. Provide with roof curb compatible with roof type and slope, coordiante with G.C.

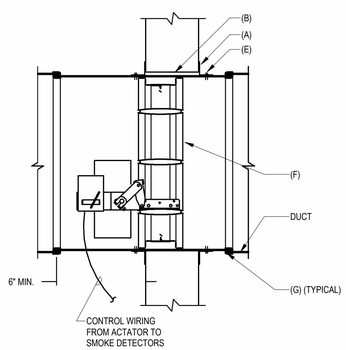
TYPICAL INSTALLATION DETAILS:
A. RETAINING ANGLES: MINIMUM 1-1/2"x1-1/2"x0.054 (16 GA.)
B. CLEARANCE: 1/8" PER LINEAR FOOT BOTH DIMENSIONS.
C. STEEL SLEEVE PER SMACNA
D. APPROVED FIRE/SMOKE DAMPER
E. SECURE RETAINING ANGLES TO SLEEVE ONLY, ON 8" CENTER WITH:
   E.1. 1/2" LONG WELDS, OR
   E.2. 1/4" BOLTS & NUTS, OR
   E.3. #10 STEEL SCREWS, OR
   E.4. MIN. 3/16" STEEL RIVETS
F. SECURE DAMPER TO SLEEVE ON 8" CENTER WITH:
   F.1. 1/2" LONG WELDS, OR
   F.2. 1/4" BOLTS & NUTS IN HOLES PROVIDED, OR
   F.3. #10 STEEL SCREWS, OR
   F.4. MIN. 3/16" STEEL RIVETS
G. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY JOINT AS PER SMACNA
H. INSTALL ACCESS DOOR OR PANEL

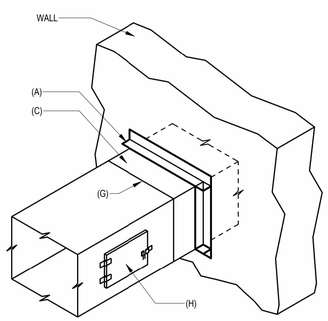
MANUFACTURER'S INSTALLATION DETAILS

THE FIRE DAMPER MANUFACTURERS' INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.

VERTICAL POSITION IS SHOWN, HORIZONTAL INSTALLATION IS SHOWN.

FOLLOW INSTALLATION INSTRUCTIONS FOR ACTUATOR.





1 / M6.1 FIRE SMOKE DAMPER INSTALLATION DETAIL
NO SCALE

HEAT PUMP SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	NOMINAL CAPACITY	COOLING						HEATING				ELECTRICAL		
					EDB	EDB	EWB	SENSIBLE	TOTAL	SEER2	OA EDB	EDB	TOTAL HEATING CAPACITY	HSPF2	VOLTAGE/PHASE	MCA	MOCP
HP-1	BASEMENT	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	16,677 Btu/h	22,305 Btu/h	14.3	47 °F	70 °F	22,600 Btu/h	7.5	208 V/1	15 A	25 A
HP-2	1ST-PARTY1, TLTS, STOR	Trane	4TWR4048	4.0 ton	105 °F	80 °F	67 °F	34,798 Btu/h	45,692 Btu/h	14	47 °F	70 °F	44,000 Btu/h	7.8	208 V/1	26 A	40 A
HP-3	1ST-PARTY ROOM 1	Trane	4TWR4060	5.0 ton	105 °F	80 °F	67 °F	38,700 Btu/h	51,900 Btu/h	14.3	47 °F	70 °F	56,200 Btu/h	7.5	208 V/1	32 A	50 A
HP-4	MEZZ-PARTY ROOM 4	Trane	4TWR4036	3.0 ton	105 °F	80 °F	67 °F	24,900 Btu/h	33,000 Btu/h	14.3	47 °F	70 °F	33,400 Btu/h	7.5	208 V/1	18 A	30 A
HP-5	MEZZ-PARTY ROOM 3	Trane	4TWR4048	4.0 ton	105 °F	80 °F	67 °F	34,798 Btu/h	45,692 Btu/h	14	47 °F	70 °F	44,000 Btu/h	7.8	208 V/1	26 A	40 A
HP-6	ROOF-HALL TLTS	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	16,677 Btu/h	22,305 Btu/h	14.3	47 °F	70 °F	22,600 Btu/h	7.5	208 V/1	15 A	25 A
HP-7	OFFICE TENANT - 132	Trane	4TWR4048	4.0 ton	105 °F	80 °F	67 °F	34,798 Btu/h	45,692 Btu/h	14	47 °F	70 °F	44,000 Btu/h	7.8	240 V/1	26 A	40 A
HP-8	MEZZ-BAR	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	16,677 Btu/h	22,305 Btu/h	14.3	47 °F	70 °F	22,600 Btu/h	7.5	208 V/1	15 A	25 A
HP-9	2ND FLR N-222	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	16,677 Btu/h	22,305 Btu/h	14.3	47 °F	70 °F	22,600 Btu/h	7.5	208 V/1	15 A	25 A
HP-10	2ND FLR S-204	Trane	4TWR4024	2.0 ton	105 °F	80 °F	67 °F	16,677 Btu/h	22,305 Btu/h	14.3	47 °F	70 °F	22,600 Btu/h	7.5	208 V/1	15 A	25 A
HP-11	APT 1-206	Trane	4TWR4048	4.0 ton	105 °F	80 °F	67 °F	34,798 Btu/h	45,692 Btu/h	14	47 °F	70 °F	44,000 Btu/h	7.8	240 V/1	26 A	40 A
HP-12	APT 2 - 209	Trane	4TWR4030	2.5 ton	105 °F	80 °F	67 °F	20,533 Btu/h	27,706 Btu/h	14.8	47 °F	70 °F	26,800 Btu/h	7.8	240 V/1	15 A	25 A
HP-13	APT 3-209	Trane	4TWR4030	2.5 ton	105 °F	80 °F	67 °F	20,533 Btu/h	27,706 Btu/h	14.8	47 °F	70 °F	26,800 Btu/h	7.8	240 V/1	15 A	25 A
HP-14	APT 4-211	Trane	4TWR4036	3.0 ton	105 °F	80 °F	67 °F	24,900 Btu/h	33,000 Btu/h	14.3	47 °F	70 °F	33,400 Btu/h	7.5	240 V/1	18 A	30 A
HP-15	APT 5-214	Trane	4TWR4030	2.5 ton	105 °F	80 °F	67 °F	20,533 Btu/h	27,706 Btu/h	14.8	47 °F	70 °F	26,800 Btu/h	7.8	240 V/1	15 A	25 A
HP-16	APT 6-226	Trane	4TWR4030	2.5 ton	105 °F	80 °F	67 °F	20,533 Btu/h	27,706 Btu/h	14.8	47 °F	70 °F	26,800 Btu/h	7.8	240 V/1	15 A	25 A

NOTES:
1. PROVIDE REFRIGERANT PIPING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL FIELD INSTALLED LENGTH AND ROUTING.
2. PROVIDE ALL REQUIRED CONTROL WIRING BETWEEN HEAT PUMP AND BLOWER COIL
3. PROVIDE WITH HAIL GUARDS

BLOWER COIL SCHEDULE

MARK	MANUFACTURER	MODEL	FAN					ELECTRIC HEAT			ELECTRICAL					
			SUPPLY CFM	O.A CFM	Fan Size	ESP	SPEED	# CIRCUITS CIRCUITS	HEATER KW (CIRCUIT 1)	HEATER KW (CIRCUIT 2)	VOLTAGE	PHASE	MCA (CIRCUIT 1)	MOCP (CIRCUIT 1)	MCA (CIRCUIT 2)	MOCP (CIRCUIT 2)
BC-1	TRANE	TEM4A0B24	800	85	0.33 hp	0.50 in-wg	HIGH	1	7.2 kW	0.0 kW	208 V	1	47 A	50 A	N/A	N/A
BC-2	TRANE	TEM4A0C48	1,600	285	0.75 hp	0.50 in-wg	MED-HIGH	1	7.2 kW	3.6 kW	208 V	1	51 A	60 A	22.0 A	25.0 A
BC-3	TRANE	TEM4A0C60	1,950	320	0.75 hp	0.50 in-wg	HIGH	2	7.2 kW	3.6 kW	208 V	1	51 A	60 A	22.0 A	25.0 A
BC-4	TRANE	TEM4A0C37	1,200	260	0.50 hp	0.50 in-wg	MED-HIGH	2	7.2 kW	3.6 kW	208 V	1	48 A	50 A	22.0 A	25.0 A
BC-5	TRANE	TEM4A0C48	1,600	270	0.75 hp	0.50 in-wg	MED-HIGH	1	7.2 kW	0.0 kW	208 V	1	51 A	60 A	N/A	N/A
BC-6	TRANE	TEM4A0B24	800	50	0.33 hp	0.50 in-wg	HIGH	1	7.2 kW	0.0 kW	208 V	1	47 A	50 A	N/A	N/A
BC-7	TRANE	TEM4A0C48	1,600	160	0.75 hp	0.50 in-wg	MED-HIGH	2	9.6 kW	4.8 kW	240 V	1	58 A	60 A	25.0 A	25.0 A
BC-8	TRANE	TEM4A0B24	800	0	0.33 hp	0.50 in-wg	HIGH	1	0.0 kW	0.0 kW	208 V	1	4 A	15 A	N/A	N/A
BC-9	TRANE	TEM4A0B24	800	130	0.33 hp	0.50 in-wg	HIGH	1	7.2 kW	0.0 kW	208 V	1	47 A	50 A	N/A	N/A
BC-10	TRANE	TEM4A0B24	800	0	0.33 hp	0.50 in-wg	HIGH	1	3.6 kW	0.0 kW	208 V	1	25 A	25 A	N/A	N/A
BC-11	TRANE	TEM4A0C48	1,600	0	0.75 hp	0.50 in-wg	MED-HIGH	2	9.6 kW	4.8 kW	240 V	1	59 A	60 A	25.0 A	25.0 A
BC-12	TRANE	TEM4A0C31	1,000	0	0.33 hp	0.50 in-wg	HIGH	1	7.7 kW	0.0 kW	240 V	1	44 A	45 A	N/A	N/A
BC-13	TRANE	TEM4A0C31	1,000	0	0.33 hp	0.50 in-wg	HIGH	1	7.7 kW	0.0 kW	240 V	1	44 A	45 A	N/A	N/A
BC-14	TRANE	TEM4A0C37	1,200	0	0.50 hp	0.50 in-wg	MED-HIGH	2	9.6 kW	4.8 kW	240 V	1	55 A	60 A	22.0 A	25.0 A
BC-15	TRANE	TEM4A0C31	1,000	0	0.33 hp	0.50 in-wg	HIGH	2	9.6 kW	0.0 kW	240 V	1	54 A	60 A	N/A	N/A
BC-16	TRANE	TEM4A0C31	1,000	0	0.33 hp	0.50 in-wg	HIGH	2	9.6 kW	0.0 kW	240 V	1	54 A	60 A	N/A	N/A

NOTES:
1. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.

MINI-SPLIT HEAT PUMP OUTDOOR UNIT SCHEDULE

Mark	MANUFACTURER	MODEL	TYPE	NOMINAL CAPACITY	MCA	MOCP
OU-1	Trane - Mitsubishi	TRUZA0181KA70	Heat Pump System	1.50 ton	11 A	15 A

NOTES:
1. PROVIDE REFRIGERANT PIPING SIZED IN ACCORDANCE WITH MANUFACUTER'S RECOMMENDATIONS FOR ACTUAL FIELD INSTALLED LENGTH AND ROUTING.
2. INDOOR UNITS ARE POWERED FROM OUTDOOR UNIT.
3. PROVIDE WITH HAIL GUARDS.

MINI-SPLIT HEAT PUMP INDOOR UNIT SCHEDULE

Mark	MANUFACTURER	MODEL	TYPE	Cooling Coil Total	Heating Cap.
IU-1	Mitsubishi	TPKA0A0181LA00A	Wall Mounted Unit	18,000 Btu/h	19,000 Btu/h

NOTES:
1. INDOOR UNITS ARE POWERED FROM OUTDOOR UNIT.
2. PROVIDE WITH MANUFACTURER'S ACCESSORY CONDENSATE LIFT.

PACKAGED RTU SCHEDULE

Mark	Manufacturer	Model	Supply Fan			Cooling					Heating		Electrical				Product Weight	Notes
			Airflow (CFM)	ESP	Size	Total	Sensible	EDB	EWB	Cooling Design OAT	Input	Output	Voltage	Phase	MCA	MOCP		
RTU-1	Trane	YZC090--	2,625	1.00 in-wg	3.00 hp	85,110 Btu/h	63,090 Btu/h	80 °F	67 °F	100 °F	120,000 Btu/h	97,200 Btu/h	208 V	3	43 A	50 A	1070 lb	1,2,3,4,5,6,7,8,9
RTU-2	Trane	YSK120--	3,900	1.25 in-wg	3.00 hp	119,550 Btu/h	87,440 Btu/h	80 °F	67 °F	100 °F	200,000 Btu/h	162,000 Btu/h	208 V	3	53 A	80 A	1215 lb	1,2,3,4,5,6,7,8,9
RTU-3	Trane	YSK120--	3,900	1.25 in-wg	3.00 hp	119,550 Btu/h	87,440 Btu/h	80 °F	67 °F	100 °F	0 Btu/h	0 Btu/h	208 V	3	57 A	80 A	1215 lb	1,2,3,4,5,6,7,8

NOTES:
1. PROVIDE WITH HAIL GUARDS.
2. PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT SWITCH.
3. PROVIDE WITH DRY BULB ECONOMIZER WITH BAROMETRIC RELIEF.
4. PROVIDE 2" MERV 8 PLEATED FILTERS.
5. PROVIDE WITH FACTORY INSTALLED MICROPOROCESSOR CONTROLLER WITH 7-DAY, 24/7 PROGRAMMABLE SPACE THERMOSTAT.
6. PROVIDE WITH DEHUMIDIFICATION CONTROLS WITH HOT GAS REHEAT. PROVIDE WITH RETURN DUCT MOUNTED HUMIDISTAT.
7. PROVIDE WITH HINGED SERVICE ACCESS PANELS.
8. PROVIDE WITH ROOF CURB COMPATIBLE WITH ROOF TYPE AND SLOPE. COORDINATE WITH G.C.
9. PROVIDE UNIT WITH SIDE DISCHARGE CONFIGURATION.

ELECTRIC WALL HEATER SCHEDULE

Mark	Manufacturer	Model	Mounting	Watts	Voltage	Phase	Description	Notes
EWH-1	Berko	FRC	Wall	1.5 kW	120 V	1	Architectural fan forced wall heater	1,2,3
EWH-2	Berko	FRC	Wall	1.5 kW	120 V	1	Architectural fan forced wall heater	1,2,3

NOTES:
1. PROVIDE WITH HIGH TEMP. THERMAL CUTOUT AND FAN DELAY.
2. PROVIDE WITH INTEGRAL THERMOSTAT AND UNIT MOUNTED DISCONNECT SWITCH.
3. PROVIDE WITH RECESSED MOUNTING FRAME. COORDINATE EXACT MOUNTING REQUIREMENTS AND LOCATIONS WITH G.C. AND ARCH.

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101 N. SANTA FE AVE.
REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

NOT FOR CONSTRUCTION

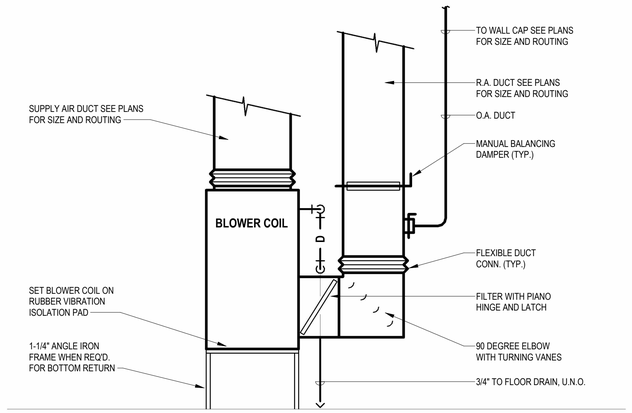
JOHN F. LEWIS SMITH 14654 REGISTERED PROFESSIONAL ENGINEER KANSAS

2025.03.20 16:40:39-05'00'

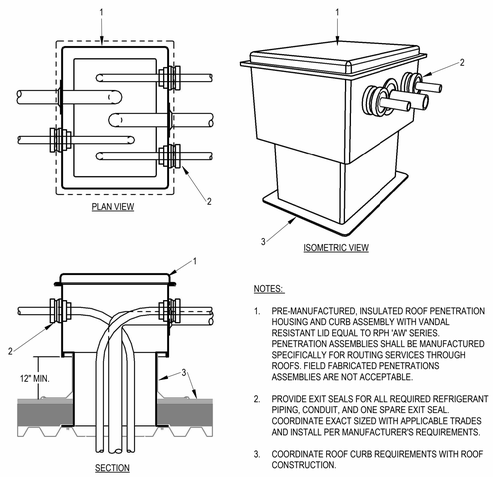
REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

M6.1



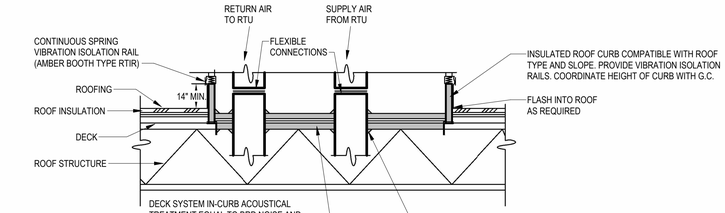
10 / M6.2 BLOWER COIL DETAIL
NO SCALE



NOTES:

1. PRE-MANUFACTURED, INSULATED ROOF PENETRATION HOUSING AND CURB ASSEMBLY WITH VANDAL RESISTANT LID EQUAL TO RPH 'AW' SERIES. PENETRATION ASSEMBLIES SHALL BE MANUFACTURED SPECIFICALLY FOR ROUTING SERVICES THROUGH ROOFS. FIELD FABRICATED PENETRATIONS ASSEMBLIES ARE NOT ACCEPTABLE.
2. PROVIDE EXIT SEALS FOR ALL REQUIRED REFRIGERANT PIPING, CONDUIT, AND ONE SPARE EXIT SEAL. COORDINATE EXACT SIZED WITH APPLICABLE TRADES AND INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. COORDINATE ROOF CURB REQUIREMENTS WITH ROOF CONSTRUCTION.

9 / M6.2 ROOF PENETRATION VAULT DETAIL
NO SCALE



8 / M6.2 RTU CURB
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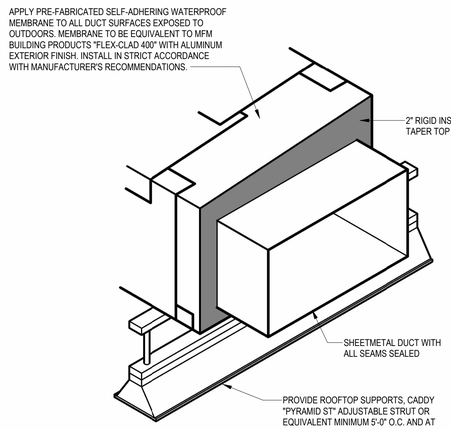

7 / M6.2 EXTERIOR DUCT DETAIL
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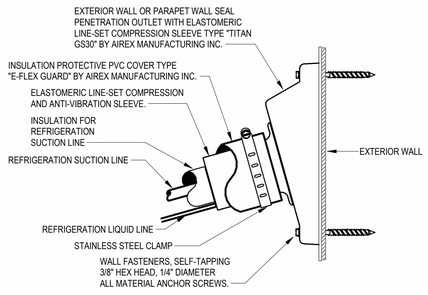

6 / M6.2 HVAC PIPING WALL PENETRATION SEAL
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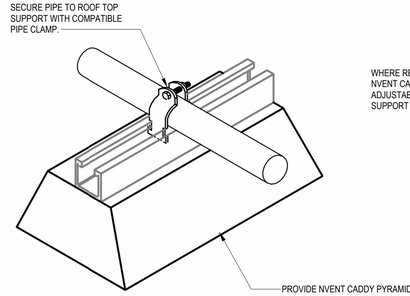

5 / M6.2 EXTERIOR PIPING SUPPORT DETAIL
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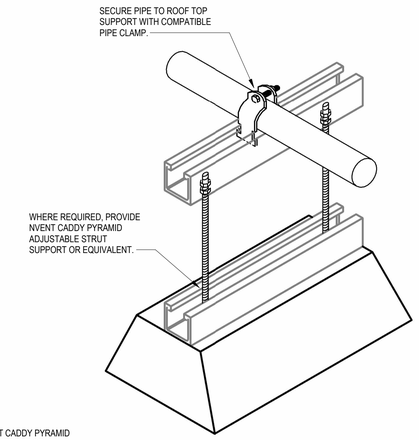
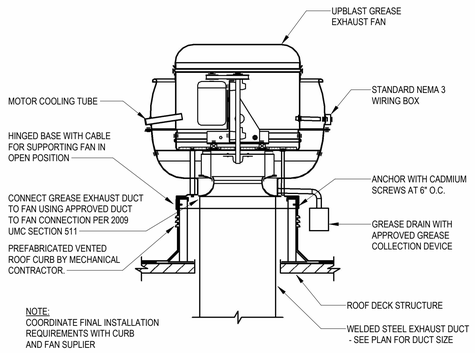
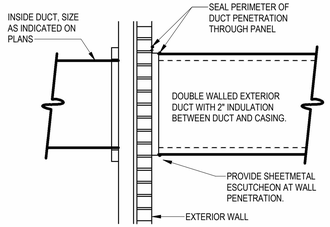




4 / M6.2 TYPICAL KITCHEN EXHAUST FAN
NO SCALE



3 / M6.2 WALL PENETRATION DETAIL
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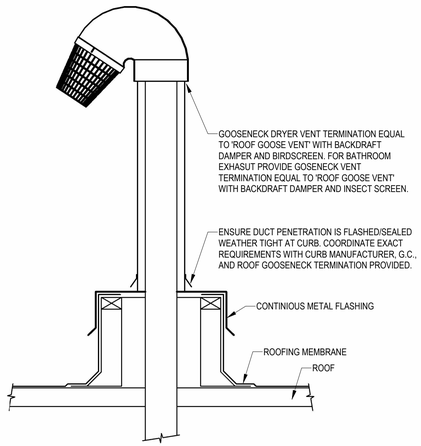
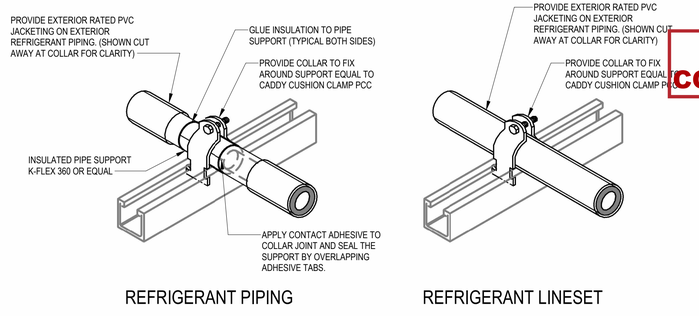


2 / M6.2 GOOSENECK DUCT THROUGH ROOF DETAIL
NO SCALE



1 / M6.2 EXTERIOR REFRIGRANT PIPING INSULATION DETAIL
NO SCALE

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

2025.03.20 16:42:15-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

M6.2

General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room Name / Number (Room / 1)
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

Abbreviations

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

Equipment Abbreviations

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

Plumbing Symbols

- 2" — Nominal Pipe Size
- Above Ground Piping
- Below Ground Piping
- 1/8" / 12" SLOPE — Pipe Slope (When Applicable)
- (E) — Existing Pipe To Remain
- Pipe To Be Demolished
- CW — Domestic Cold-Water
- NPW — Non-Potable Water
- S-CW — Soft Cold-Water
- F-CW — Filtered Cold-Water
- RO — Reverse Osmosis Water
- HW — Domestic Hot-Water
- HW 140° — Domestic Hot-Water 140°
- HW-R — Hot-Water Recirculation
- HW-R 140° — Hot-Water Recirculation 140°
- SS — Sanitary Drain
- V — Sanitary Vent
- WV — Sanitary Wet Vent
- CWV — Combination DWV
- CD — Condensate Drain
- ID — Indirect Drain
- GW — Grease Waste
- GV — Grease Vent
- PD — Pump Discharge
- SD — Storm Drain
- OSD — Storm Overflow
- CA — Compressed Air
- G — Natural Gas
- LP — Liquid Propane
- Pipe Rise / Drop

Pipe Accessory Notes

- 4" FCO — Cleanout
- 2" CHECK — Check Valve
- 2" BALANCE — Balancing Valve
- 2" CIRC — Circuit Setter
- 2" GATE — Gate Valve
- 2" S/O — Ball Valve
- 2" STRAIN — Fluid Strainer
- S — 1" GAS-CNTRL — Emergency Gas Shutoff
- 1" PLUG — Plug Valve
- 1" GAS COCK — Gas Shutoff Cock
- 1" REG — Gas Regulator
- T/P — 1" T/V — Thermostatic Valve
- T/P — TMV-XT/P — Mixing Valve
- EM — TMVEM — Emergency Mixer
- 2" PRV — Pressure Reducing Valve
- W — 2" METER — Water Meter
- Double Check Valve
- Reduced Pressure Zone

Plumbing Fixture Notes

- Floor Drain — Design Size
- 0" FD-A — Identity Type
- 2 DFU — Drainage Fixture Units
- 2" FD-3 — Floor Drain w/ Deep Seal Trap
- 2" FD-3P — Floor Drain w/ Trap Primer "P" Indicates Primer Connection
- 2" FD-7 — Floor Drain w/ Integral Cleanout
- 3" AD-1 — Area Drain (No Trap)
- 6" DD-1 — Deck Drain
- 3" HD-1 — Hub Drain (Funnel Type)
- 3" FS — Floor Sink
- 6" SD-12 — Roof Drain
- 6" SD-1 — 2000 SF — Combination Drain Rainfall Surface Area

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Plumbing Sheet Index

GENERAL PLUMBING NOTES

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
B. PITCH UNDERFLOOR SANITARY WASTE PIPING OVER 2" AT 1/8" PER FOOT, 2" AND SMALLER AT 1/4" PER FOOT.
C. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
D. ROUTE DOMESTIC WATER, AND SANITARY SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
E. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
F. LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
G. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL (OR UNIFORM, DEPENDING ON JURISDICTION) PLUMBING CODE AND INTERNATIONAL MECHANICAL CODE.
H. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
I. LOCATE PIPING AND EQUIPMENT OUTSIDE OF THE NEC REQUIRED CLEAR SPACE ABOVE AND AROUND ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.
J. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE U.L. LISTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED ASSEMBLIES.
K. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
L. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
M. TRANSITION FROM PIPING SIZES SHOWN TO PROPERLY CONNECT TO EQUIPMENT.
N. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
O. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
P. INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
Q. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING EQUIPMENT AND MATERIALS. SUBSTITUTE EQUIPMENT AND MATERIALS INSTALLED WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPLACEMENT AT CONTRACTOR'S EXPENSE.
R. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
S. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL PLUMBING DEMOLITION NOTES

A. ALL PIPING TAKEN OUT OF SERVICE SHALL BE REMOVED. WHERE PIPING TO BE REMOVED IS CONNECTED TO EXISTING PIPING TO REMAIN, PIPING SHALL BE REMOVED BACK TO MAIN AND CAPPED, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL DISPOSE OF PIPING OR DELIVER TO OWNER, AS DIRECTED BY OWNER.
B. WHERE PIPING TAKEN OUT OF SERVICE IS LOCATED BELOW SLAB AND IS UNABLE TO BE REMOVED, CAP BELOW SLAB.
C. COORDINATE CUTTING, PATCHING OF EXISTING WALLS, CEILINGS, ROOF AND FLOORS AFFECTED BY MECHANICAL DEMOLITION WITH G.C.
D. ALL EQUIPMENT TAKEN OUT OF SERVICE SHALL BE REMOVED. EQUIPMENT SHALL BE DELIVERED TO OWNER OR DISPOSED OF AS DIRECTED BY OWNER.
E. REMOVE ALL PLUMBING INSTALLATION FROM PROJECT AREA, UNLESS REQUIRED FOR NEW WORK OR EXISTING INSTALLATION NOT AFFECTED BY REMODEL. COORDINATE WITH OWNER AND G.C.
F. SERVICES TO ITEMS NOT REMOVED AS PART OF THIS WORK SHALL BE RESTORED UPON COMPLETION OF THIS WORK TO FULLY OPERATIONAL CONDITION.
G. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE INDICATED ON DRAWINGS. ALL DEMOLITION OF AFFECTED SPACE SHALL BE PERFORMED AS IF INDICATED.
H. FIELD VERIFY EXACT LOCATION OF ALL EXISTING PLUMBING INSTALLATION INDICATED ON DRAWINGS.
I. ALL ITEMS TO BE RE-USED OR RELOCATED SHALL BE CLEANED, REPAIRED, AND RESTORED TO LIKE NEW CONDITION PRIOR TO RE-USE.

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN T. LEWIS SHANE — 14654 — KANSAS — PROFESSIONAL ENGINEER

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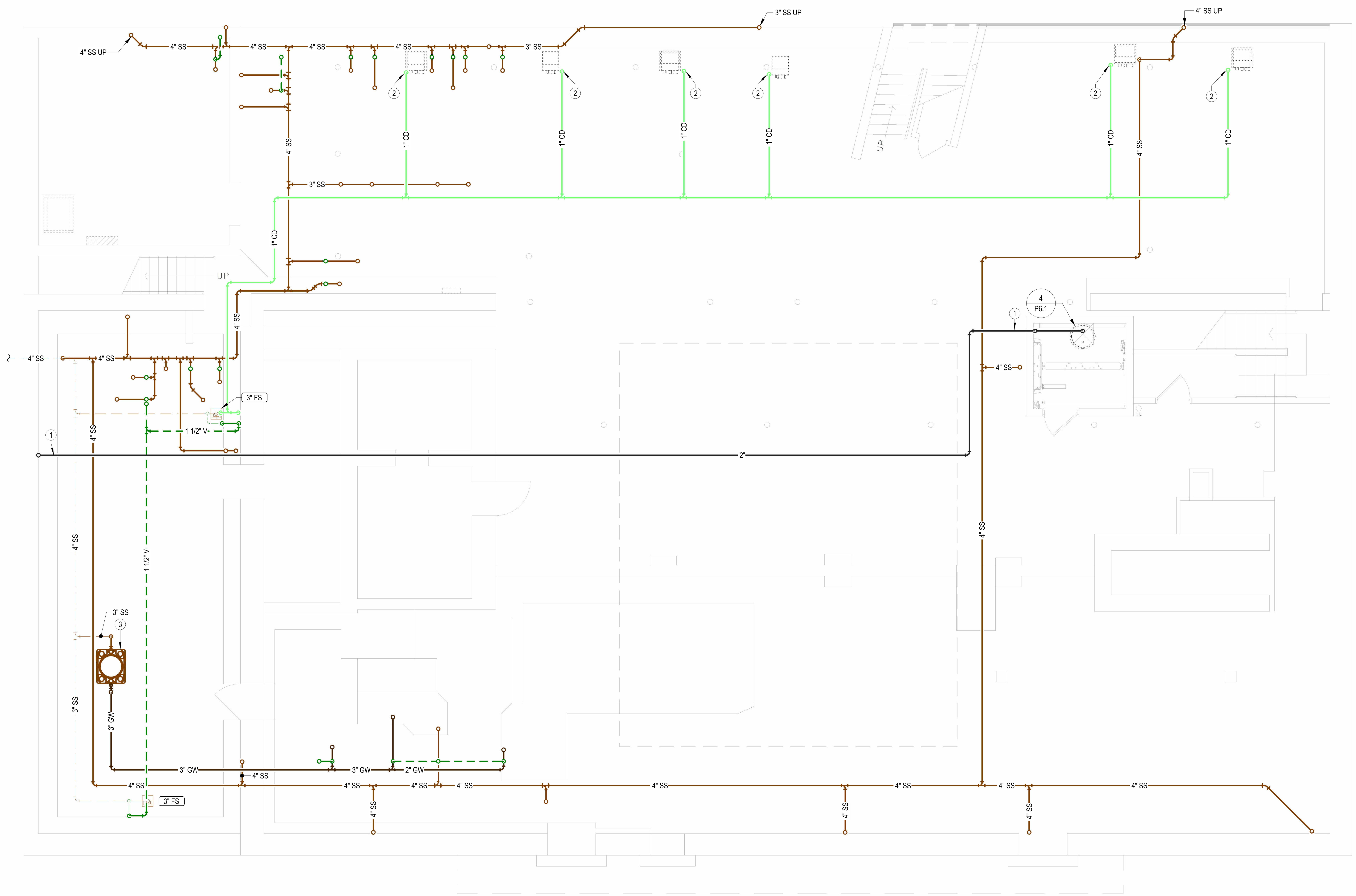
NOTES BY SYMBOL

1. ROUTE DISCHARGE FROM ELEVATOR SUMP PUMP AS HIGH AS POSSIBLE THROUGH BASEMENT TO EXTERIOR ALLEY WALL. CONTRACTOR SHALL INVESTIGATE PRESENCE OF GROUND WATER AND IF SUMP PUMP IS FOUND TO COLLECT GROUND WATER IN ELEVATOR PIT, NOTIFY ENGINEER AND ARCHITECT PRIOR TO ROUTING DISCHARGE PIPING. PIPING SHALL DISCHARGE TO CITY STORM SEWER IF GROUND WATER WILL BE DISCHARGED BY PUMP.
2. PROVIDE CONDENSATE PUMP EQUAL TO LITTLE GIANT VCMA-20-PRO WITH OVERFLOW SWITCH, AND ROUTE DISCHARGE UP AS HIGH AS POSSIBLE AND DRAIN BY GRAVITY TO INDIRECT CONNECTION AT FLOOR SINK. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES. ROUTE PIPING AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM IN BASEMENT.
3. PROVIDE GREASE INTERCEPTOR EQUAL TO SCHIER MODEL GB-50, 50GPM / 439LBS GREASE CAPACITY, 4" CONNECTIONS.



1 P1.1 BASEMENT WASTE AND VENT PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

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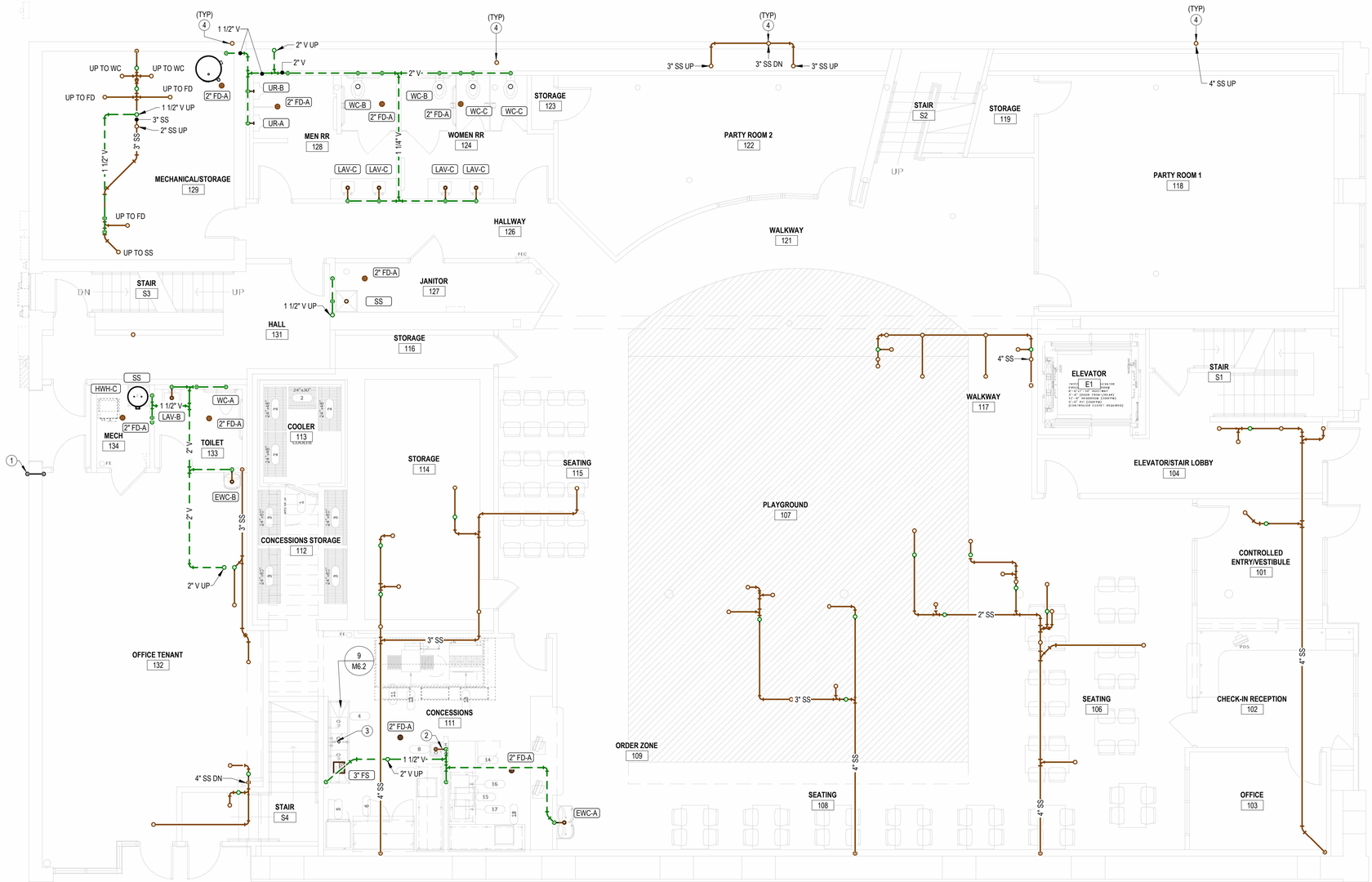
NOTES BY SYMBOL

1. ROUTE SUMP PUMP DISCHARGE UP IN CHASE AND PENETRATE EXTERIOR WALL 24" A.F.G AND ELBOW DOWN AND TERMINATE PIPE 8" A.F.G IN ALLEY. PIPE SHALL PENETRATE EXTERIOR WALL THROUGH BRICK ABOVE CONCRETE BASE. COORDINATE EXACT LOCATION WITH ARCH.
2. CONNECT SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.
3. PROVIDE INDIRECT CONNECTION FROM SINK/ EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. EACH BASIN OF MULTI-COMPARTMENT SINKS SHALL HAVE INDIVIDUAL INDIRECT DRAIN.
4. ROUTE PIPING VERTICALLY CONCEALED IN WALL OR IN CHASE. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.



2 P1.2 FIRST FLOOR WASTE AND VENT PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

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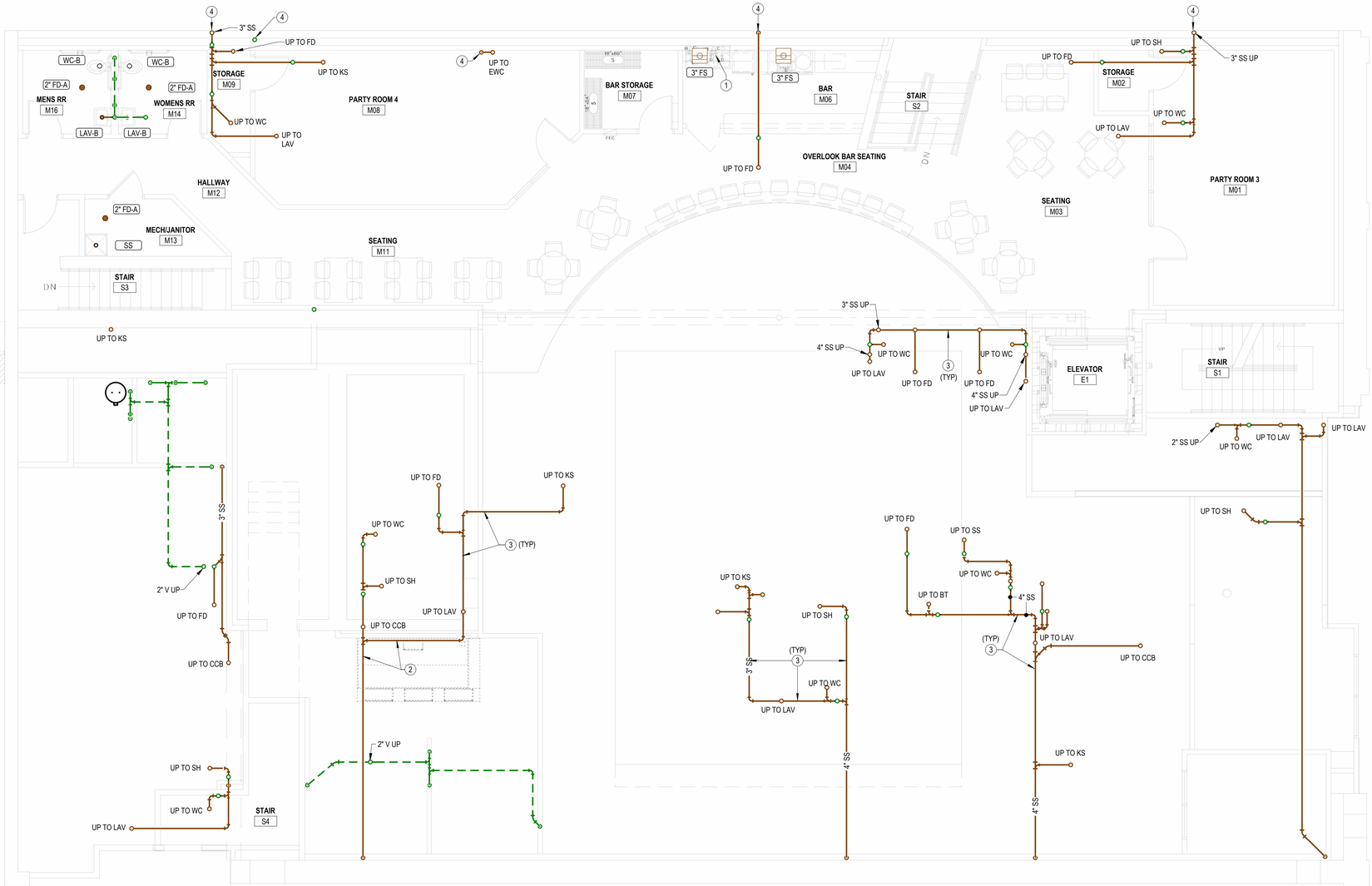
NOTES BY SYMBOL

1. PROVIDE INDIRECT CONNECTION FROM SINK/ EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. EACH BASIN OF MULTI-COMPARTMENT SINKS SHALL HAVE INDIVIDUAL INDIRECT DRAIN.
2. COORDINATE DRAIN ROUTING WITH KITCHEN HOOD EXHAUST DUCT.
3. ROUTE ALL PIPING AS HIGH AS POSSIBLE BETWEEN AND THROUGH TRUSSES TO MAXIMIZE PLENUM SPACE. COORDINATE EXACT ROUTING WITH OTHER TRADES.
4. ROUTE PIPING VERTICALLY CONCEALED IN WALL OR IN CHASE. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.



1 P1.3 MEZZANINE WASTE AND VENT PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

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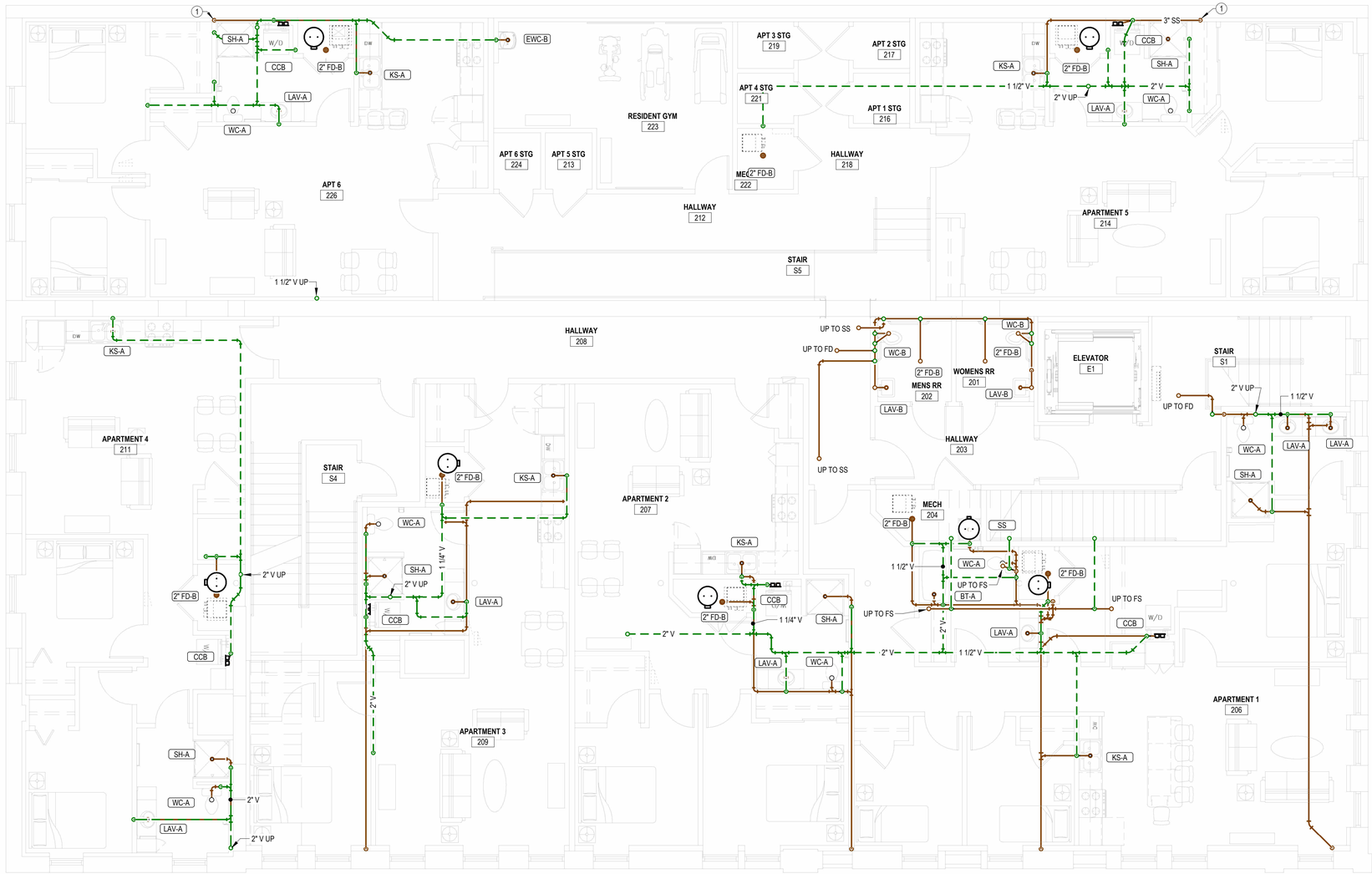
NOTES BY SYMBOL

1 ROUTE PIPING VERTICALLY CONCEALED IN WALL OR IN CHASE. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.



1 P1.4 SECOND FLOOR WASTE AND VENT PLAN
3/16" = 1'-0"

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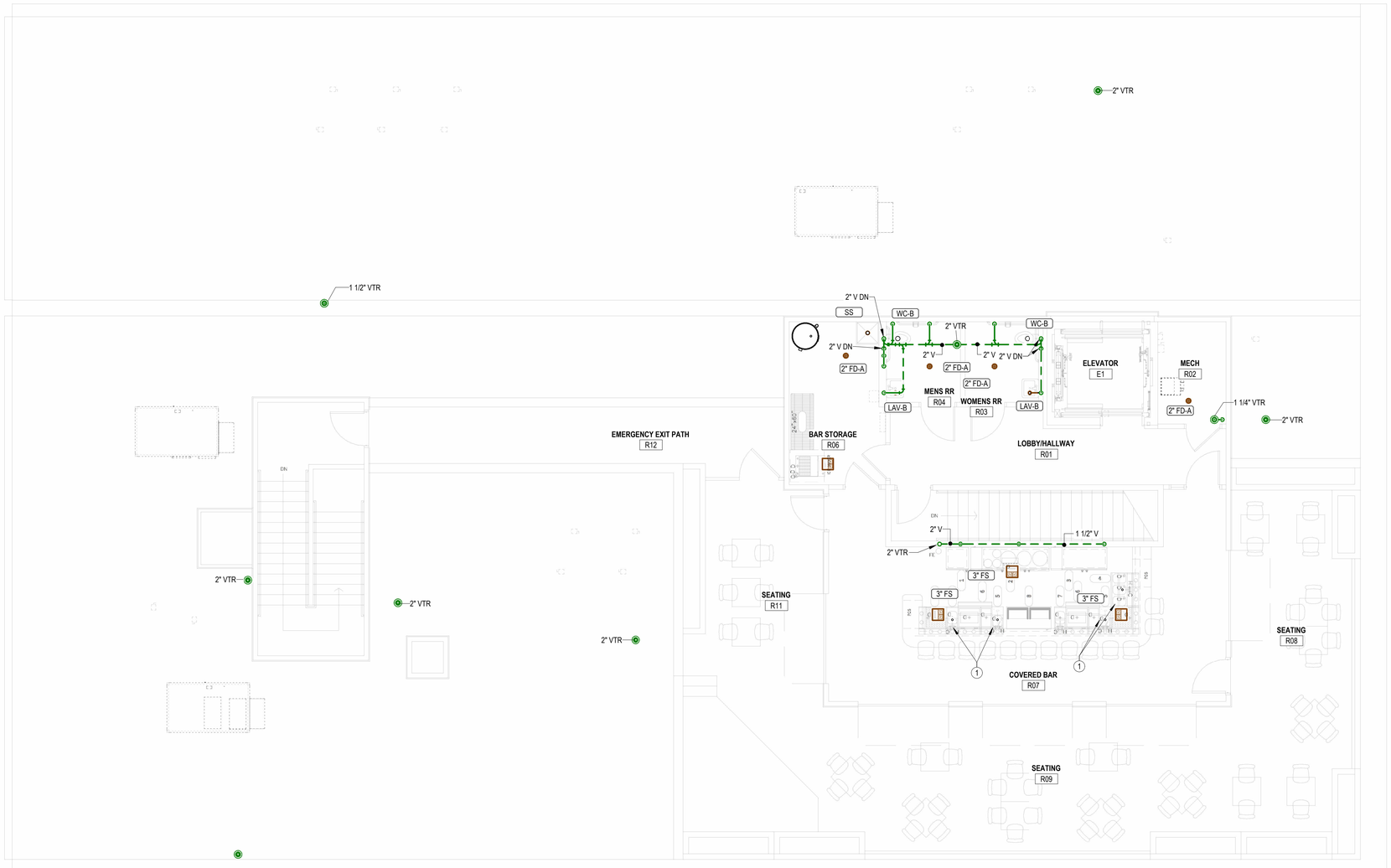
NOTES BY SYMBOL

1 PROVIDE INDIRECT CONNECTION FROM SINK/ EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. EACH BASIN OF MULTI-COMPARTMENT SINKS SHALL HAVE INDIVIDUAL INDIRECT DRAIN.



1 / P1.5 ROOF WASTE AND VENT PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

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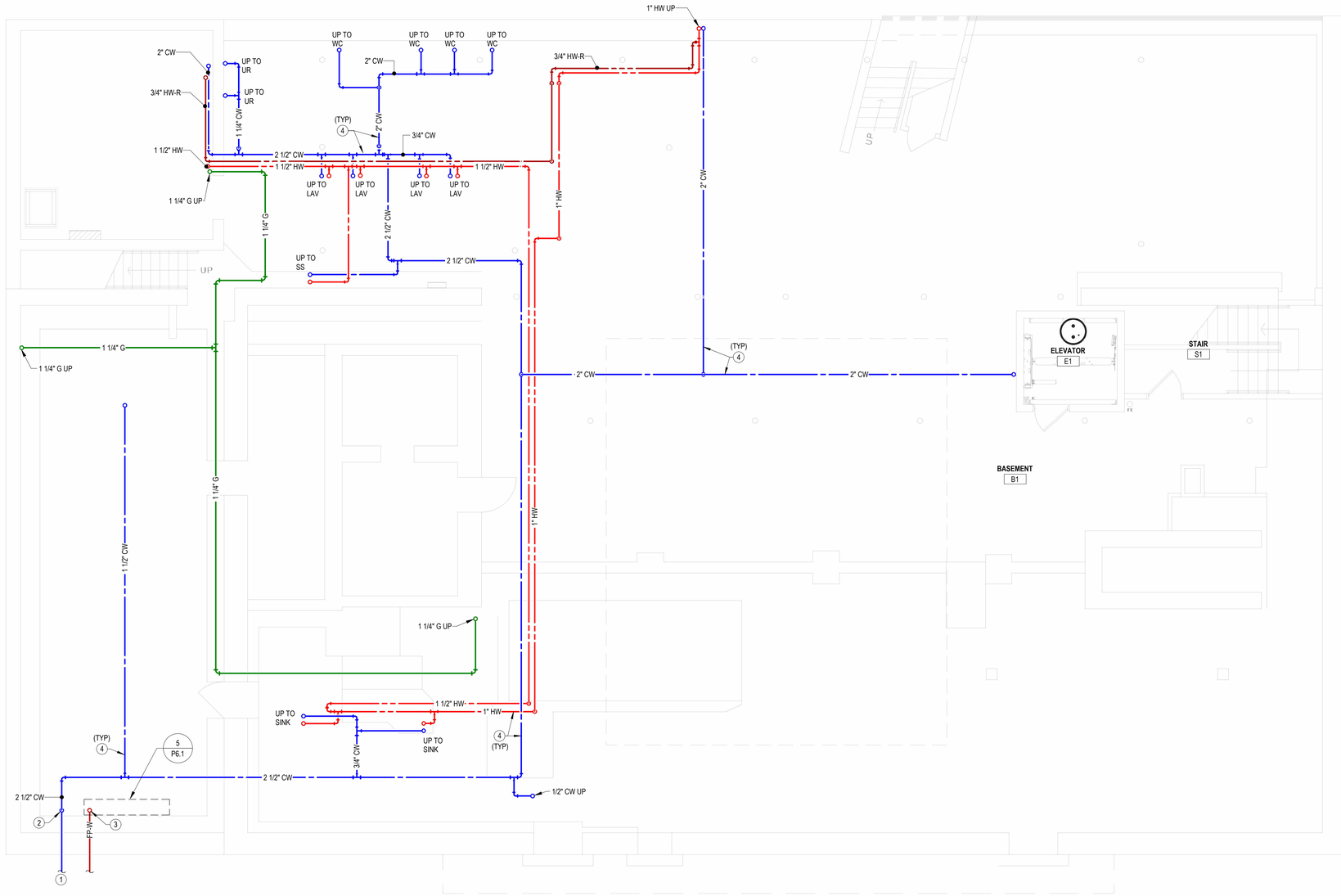
NOTES BY SYMBOL

1. EXTEND WATER TO CITY MAIN. COORDINATE TAPPING AND METERING REQUIREMENTS WITH CITY OF SALINA.
2. PROVIDE SHUT-OFF VALVE AND PRESSURE REDUCING VALVE SET TO 80 PSI, IF REQUIRED, IN WATER SERVICE RISER.
3. FIRE SPRINKLER RISER. COORDINATE BUILDING SPRINKLER REQUIREMENTS WITH BAMFORD FIRE SPRINKLER CO.
4. ROUTE ALL PIPING IN BASEMENT AS HIGH AS POSSIBLE TO MAXIMIZE HEADROOM. ROUTE BETWEEN AND THROUGH TRUSSES WHERE POSSIBLE. COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.

		ALTERNATE MATERIAL SIZE	
		Cross-linked polyethylene (PEX)	Polypropylene
COPPER PIPE SIZE INDICATED	1/2"	1/2"	1/2"
	3/4"	3/4"	3/4"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.



1 P1.6 BASEMENT DOMESTIC WATER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
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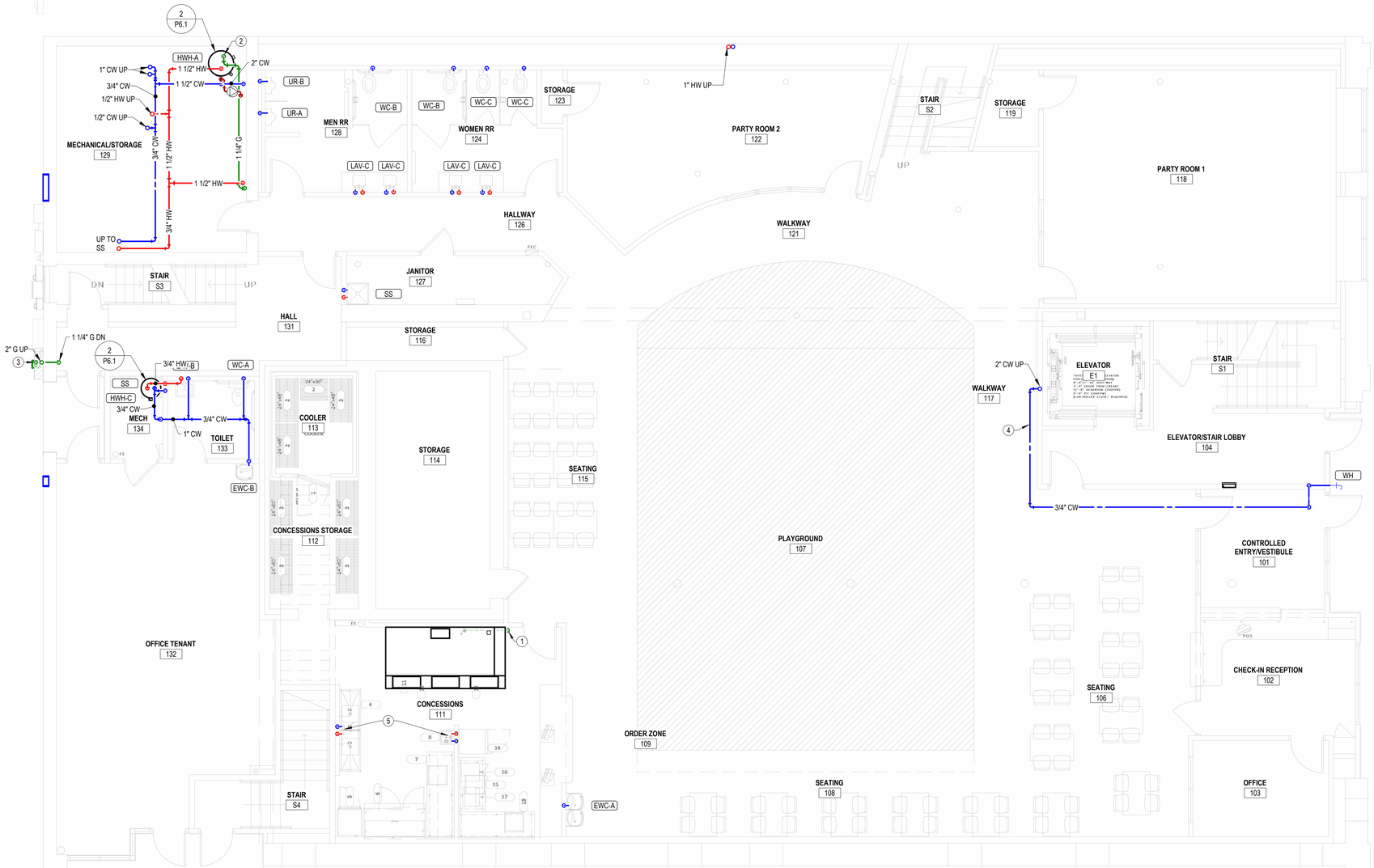
NOTES BY SYMBOL

1. PROVIDE GAS SOLENOID VALVE INTERLOCKED WITH HOOD FIRE SUPPRESSION SYSTEM AND CONNECT GAS PIPING TO OVEN RANGE PROVIDED BY OTHERS. PROVIDE GAS COCK, UNION, AND DIRT LEG. COORDINATE EXACT CONNECTION REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER AND KITCHEN HOOD EQUIPMENT PROVIDED.
2. CONNECT GAS TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG.
3. CONNECT 2" GAS PIPING AT DISCHARGE OF GAS METER AND REGULATOR PROVIDED BY KANSAS GAS SERVICE. TOTAL CONNECTED LOAD = 1200 CFH @ 7" W.C. COORDINATE EXACT REQUIREMENTS WITH KANSAS GAS SERVICE AND PAY ANY ASSOCIATED FEES.
4. PROVIDE SHUT-OFF VALVE IN BRANCH SERVING WALL HYDRANT IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL IF REQUIRED. COORDINATE EXACT REQUIREMENTS WITH ARCH. AND G.C.
5. CONNECT SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.

		ALTERNATE MATERIAL SIZE	
		Cross-linked polyethylene (PEX)	Polypropylene
COPPER PIPE SIZE INDICATED	1/2"	1/2"	1/2"
	3/4"	3/4"	3/4"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.



1 P1.7 FIRST FLOOR DOMESTIC WATER PLAN
3/16" = 1'-0"

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jgr@jgrarchitects.com

101 N. SANTA FE AVE.

REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN C. LEWIS 14654 KANSAS PROFESSIONAL ENGINEER

2025.03.20 16:46:00-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

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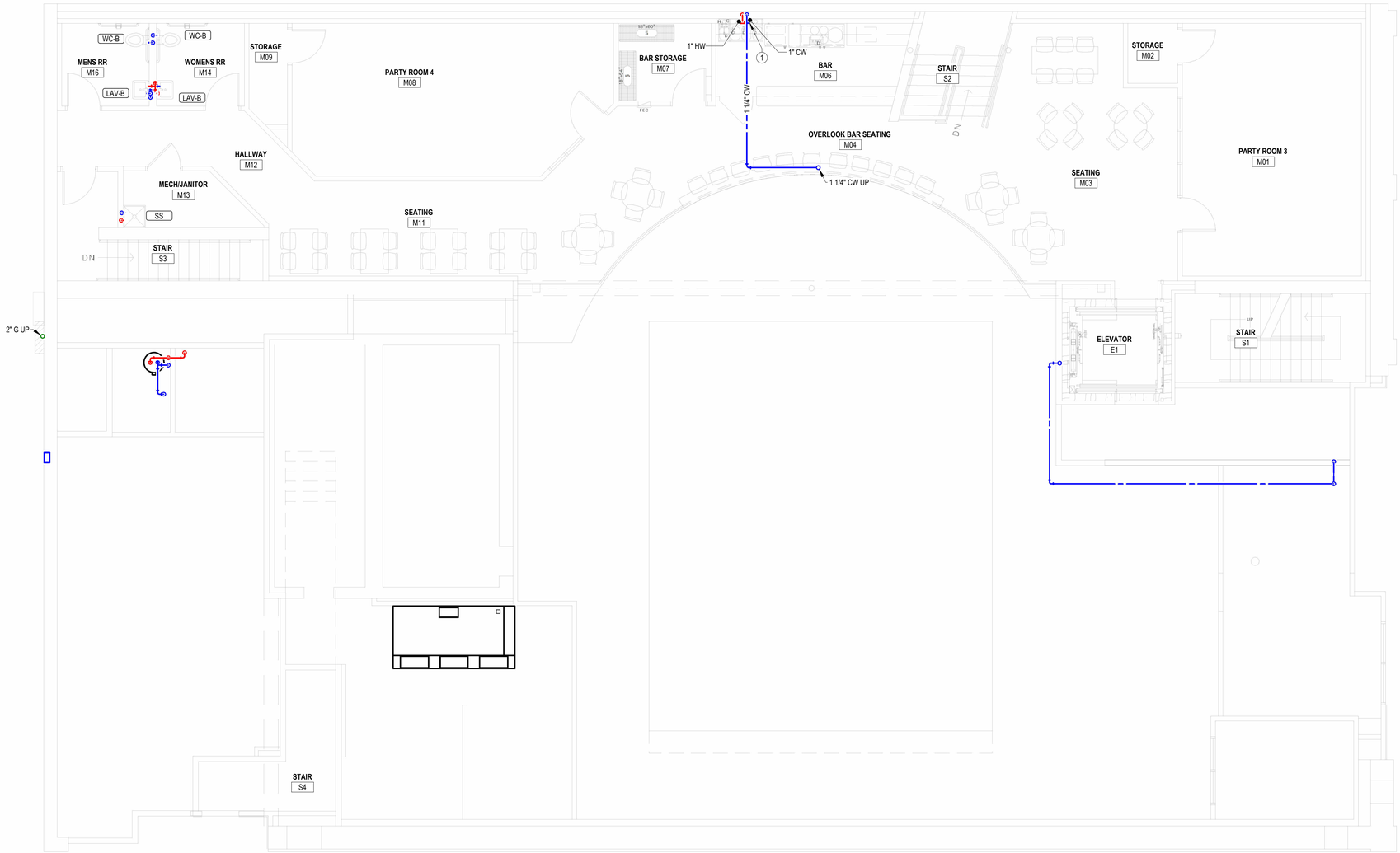
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1 CONNECT SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.

		ALTERNATE MATERIAL SIZE	
		Cross-linked polyethylene (PEX)	Polypropylene
COPPER PIPE SIZE INDICATED	1/2"	1/2"	1/2"
	3/4"	3/4"	3/4"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.



1 P1.8 MEZZANINE DOMESTIC WATER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN L. LEWIS SMITH 14654 PROFESSIONAL ENGINEER

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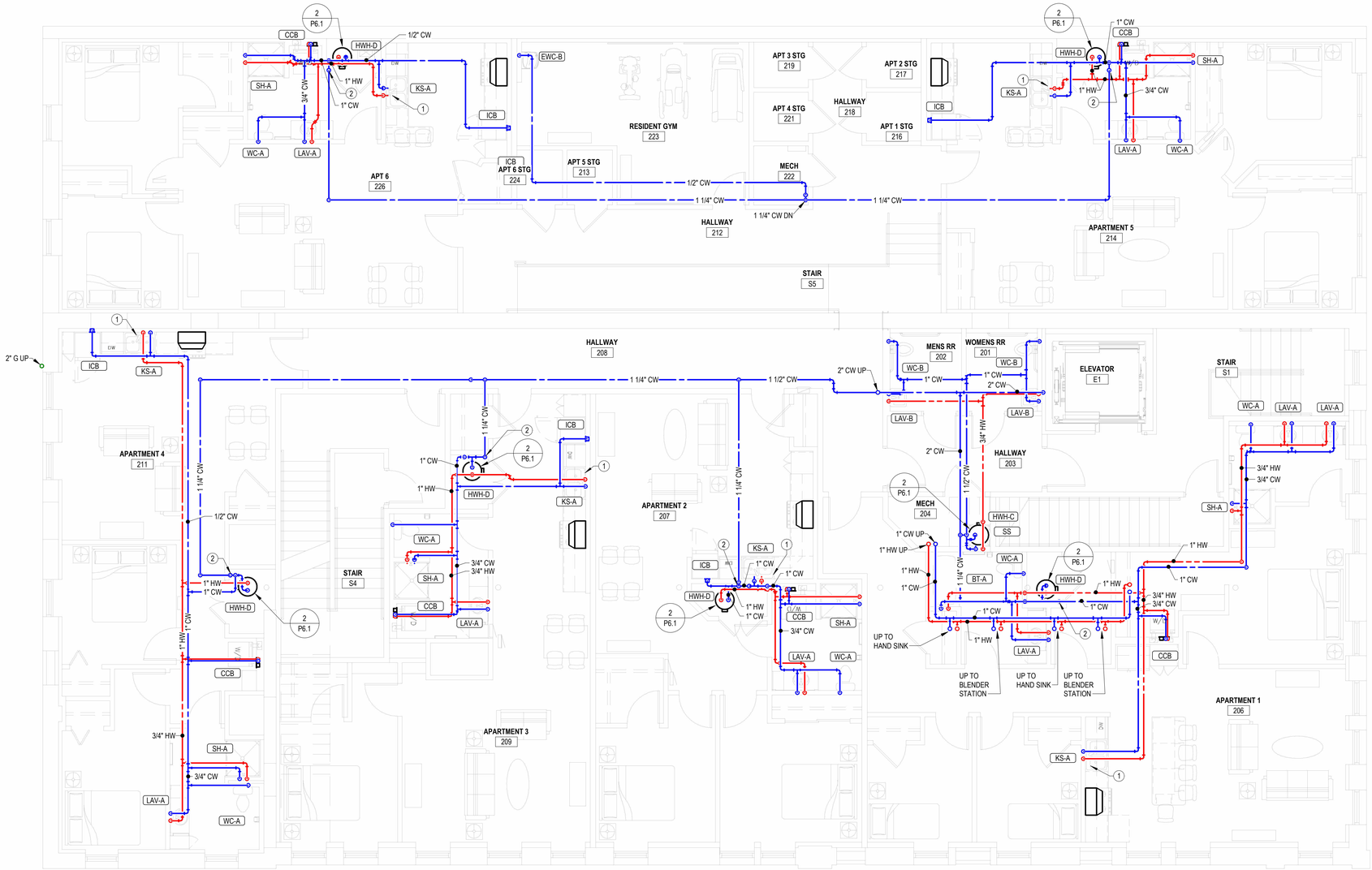
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1	PROVIDE 1/2" VALVED HW BRANCH BELOW SINK AND CONNECT DISHWASHER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED BY OTHERS.
2	PROVIDE 1-1/4" WATER SERVICE TO EACH APARTMENT WITH SHUT-OFF VALVE IN ACCESSIBLE LOCATION IN MECHANICAL CLOSET.



1 P1.9 SECOND FLOOR DOMESTIC WATER PLAN
3/16" = 1'-0"

COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL SIZE: Cross-linked polyethylene (PEX)	ALTERNATE MATERIAL SIZE: Polypropylene
1/2"	1/2"	1/2"
3/4"	3/4"	3/4"
1"	1-1/4"	1-1/4"
1-1/4"	1-1/2"	1-1/2"
1-1/2"	2"	2"
2"	2-1/2"	2-1/2"
2-1/2"	3"	3"
3"	3-1/2"	3-1/2"

Note: Pipe sizes indicated on drawings are for Type L copper pipe. If alternate materials are used, sizes shall be as indicated above. Where no pipe size is shown, use of indicated material in design pipe size is prohibited. Do not use materials other than those listed.

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

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JOHN A. GILLAM 14654 REGISTERED ARCHITECT PROFESSIONAL ENGINEER

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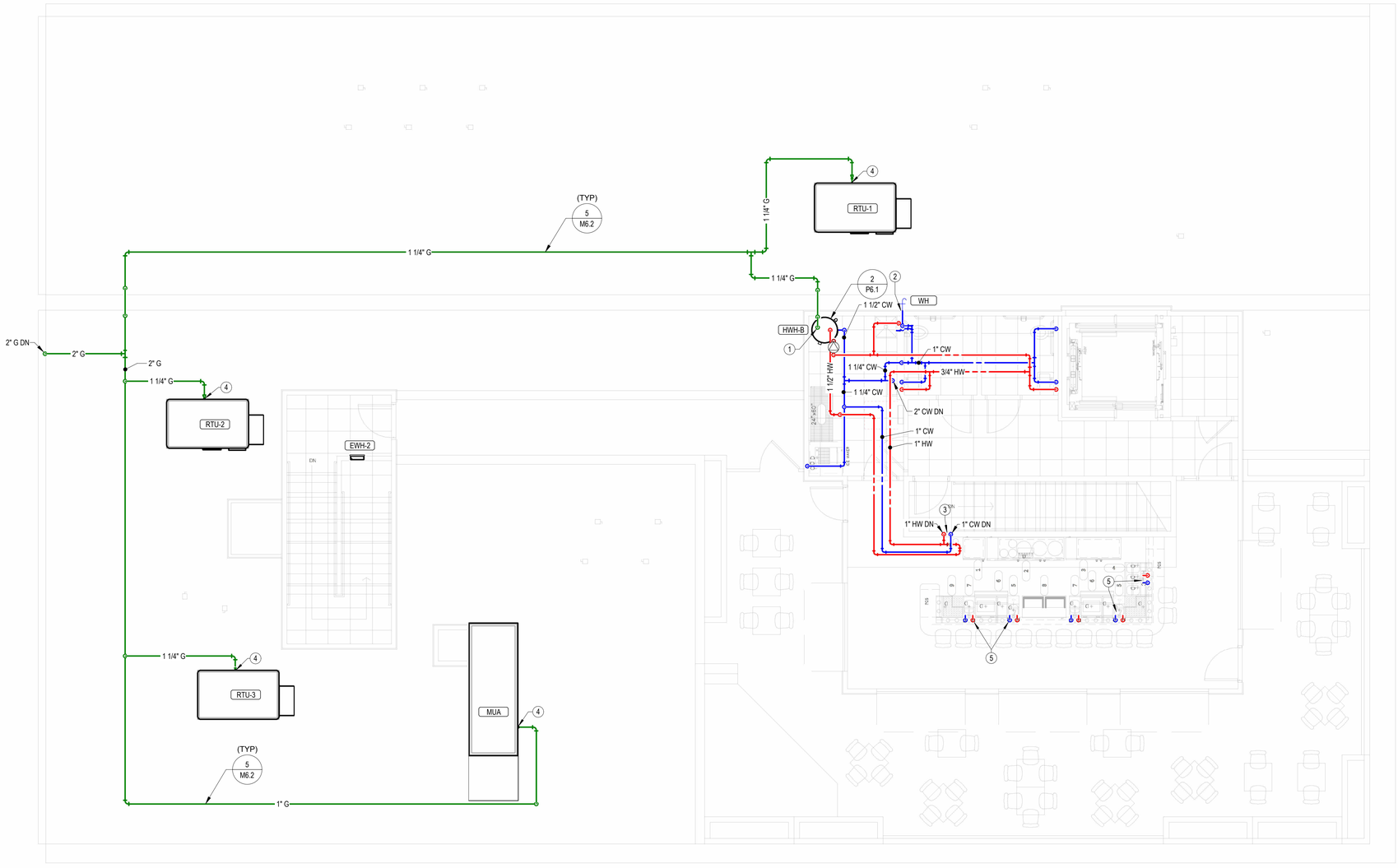
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1	CONNECT GAS TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG.
2	PROVIDE SHUT-OFF VALVE IN BRANCH SERVING WALL HYDRANT IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL IF REQUIRED. COORDINATE EXACT REQUIREMENTS WITH ARCH. AND G.C.
3	ROUTE HOT WATER AND COLD WATER PIPING DOWN IN WALL AND BELOW FLOOR TO FIXTURES AT BAR. SEE 2ND FLOOR PLAN FOR CONTINUATION.
4	CONNECT GAS TO ROOF TOP UNIT. PROVIDE GAS COCK, UNION, AND DIRT LEG.
5	CONNECT SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.



1 P1.10 ROOF DOMESTIC WATER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

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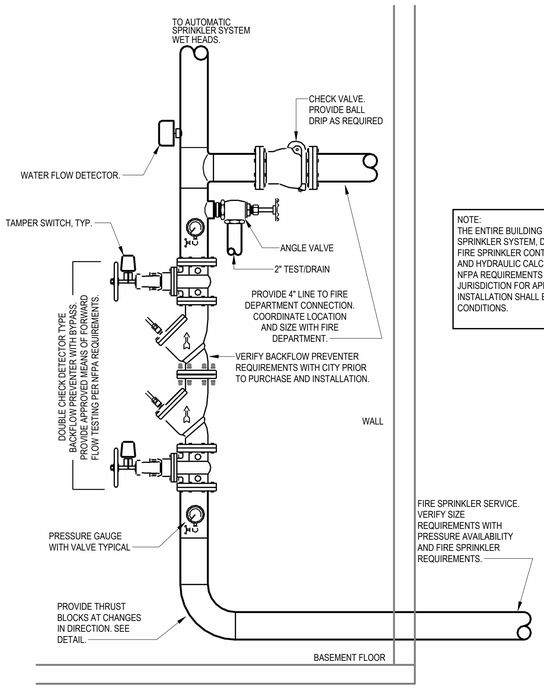
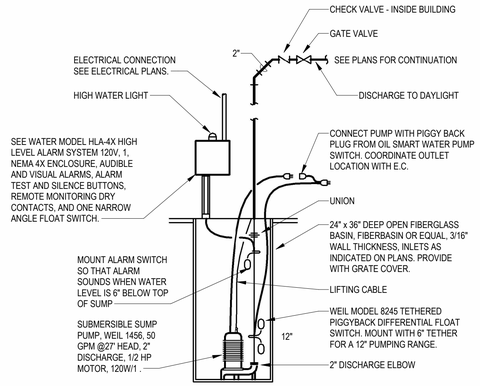


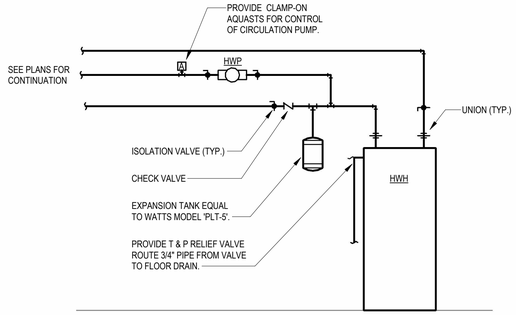
5 P6.1 FIRE PROTECTION RISER DIAGRAM
NO SCALE

NOTE:
THE ENTIRE BUILDING IS TO BE PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM, DESIGNED IN ACCORDANCE WITH NFPA 13. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PREPARED IN ACCORDANCE WITH NFPA REQUIREMENTS AND SUBMIT TO AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO INSTALLATION. INSTALLATION SHALL BE FULLY COORDINATED WITH FIELD CONDITIONS.

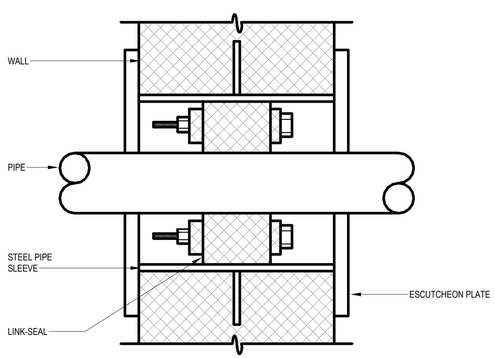


4 P6.1 ELEVATOR SUMP PUMP
NO SCALE

3 P6.1 MULTI-COMPARTMENT SINK DETAIL
NO SCALE



2 P6.1 WATER HEATER PIPING DIAGRAM
NO SCALE



LINK-SEAL FOR COPPER PIPE		
PIPE SIZES	SLEEVE OPENING SIZE	SIZE
1/2"-1" & 1-1/2" - 2-1/2"	1" LARGER THAN PIPE O.D.	LS-275-C
1-1/4" & 3"	1" LARGER THAN PIPE O.D.	LS-315-C
4"	1-1/2" LARGER THAN PIPE O.D.	LS-340-C
LINK-SEAL FOR CAST IRON-GLASS "A"		
PIPE SIZES	SLEEVE OPENING SIZE	SIZE
2"	1-1/2" LARGER THAN PIPE O.D.	LS-315-C
3"	1-1/2" LARGER THAN PIPE O.D.	LS-360-C
4"-6"	3" LARGER THAN PIPE O.D.	LS-315-C
LINK-SEAL FOR STEEL AND PLASTIC PIPE		
PIPE SIZES	SLEEVE OPENING SIZE	SIZE
1/2" - 1-1/2"	1" LARGER THAN PIPE O.D.	LS-275-C
2"	1-1/2" LARGER THAN PIPE O.D.	LS-200-C
3"	1-1/2" LARGER THAN PIPE O.D.	LS-360-C
4"-8"	2" LARGER THAN PIPE O.D.	LS-315-C

1 P6.1 TYPICAL EXTERIOR WALL PIPE PENETRATION DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	PRODUCT DESCRIPTION	TRIM	ROUGH-IN SIZES			COLD	HOT	ADA COMPLIANT	NOTES
					DRAIN	VENT	WATER				
BT-A	AQUARIUS	MODEL A6000TS OT 2P	CAST ACRYLIC TUB/SHOWER, 60"W X33-3/4"D X78"H, WITH INTEGRAL SOAP/TOILETRY SHELVES, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED, WHITE FINISH. PROVIDE WITH BLOCKING FOR FUTURE GRAB BARS AND SEAT.	DELTA MODEL R10000-UNWS/T13H232 SINGLE HANDLE PRESSURE-BALANCING VALVE WITH METAL TUB FILLER WITH PULL DIVERTER, PUSH-CLEAN SHOWERHEAD AND POP-UP DRAIN WITH OVERFLOW.	2"	1 1/2"	1/2"	Yes	Yes	No	
CCB	SIOUX CHIEF	696-2313	RECESSED WASHING MACHINE BOX WITH 2"PVC/ABS DRAIN COUPLING AND KNOCKOUT TEST CAP. TWO 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS.		2"	1 1/2"	1/2"	Yes	Yes		
EWC-A	MURDOCK	A172100F-UG-BF12	DUAL LEVEL SELF-CONTAINED WATER COOLER WITH STAINLESS STEEL BASIN, FRONT PUSH BUTTON ACTUATORS, SENSOR OPERATED BOTTLER FILLER, LEAD-FREE COOLING SYSTEM, 120 VOLTS.		2"	1 1/2"	1/2"	Yes	No	Yes	
EWC-B	MURDOCK	A171108F-UG-BF12	SELF-CONTAINED WATER COOLER WITH STAINLESS STEEL BASIN, FRONT PUSH BUTTON ACTUATOR, SENSOR OPERATED BOTTLER FILLER, LEAD-FREE COOLING SYSTEM, 120 VOLTS.		2"	1 1/2"	1/2"	Yes	No	Yes	
FD-A	SIOUX CHIEF	833	ADJUSTABLE FLOOR DRAIN WITH NICKEL BRONZE STRAINER. PROVIDE PROSET TRAP PROTECTION DEVICE.		2"	2"					
FD-B	SIOUX CHIEF	822	ADJUSTABLE FLOOR DRAIN WITH DECK FLANGE AND NICKE BRONZE STRAINER. PROVIDE PROSET TRAP PROTECTION DEVICE.		2"	2"					
ICB	SIOUX CHIEF	696-G1010	ICE MAKER CONNECTION BOX WITH 1/4 TURN BALL VALVE AND INTEGRAL HAMMER ARRESTOR.		0"	0"	1/2"	Yes	No		
KS-A	JUST	DLADA1829A65-J	TWO COMPARTMENT 18 GA STAINLESS STEEL SINK, SELF RIMMING, (2) 12"X12"X6-3/8"D BOWLS, FULLY UNDERCOATED, FAUCET HOLES AS REQ.	DELTA MODEL 400-HDF SINGLE HANDLE KITCHEN SINK FAUCET WITH HOSE SPRAY ATTACHMENT. CHROME FINISH. PROVIDE BASKET STRAINER.	2"	1 1/2"	1/2"	Yes	Yes	Yes	
LAV-A	AMERICAN STANDARD	0476.028	SELF-RIMMING LAVATORY, WHITE VITREOUS CHINA, 20"W X 17", FAUCET HOLES ON 4" CENTERS.	DELTA MODEL 22C151 SINGLE HANDLE FAUCET. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.	2"	1 1/2"	1/2"	Yes	Yes	Yes	
LAV-B	AMERICAN STANDARD	0355.012	WALL HUNG LAVATORY, WHITE VITROUS CHINA, 21-1/4"W X 18-1/4", FRONT OVERFLOW, FAUCET HOLES ON 4" CENTERS.	DELTA MODEL 22C151 SINGLE HANDLE FAUCET. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.	2"	1 1/2"	1/2"	Yes	Yes	Yes	
LAV-C	AMERICAN STANDARD	0476.028	SELF-RIMMING LAVATORY, WHITE VITREOUS CHINA, 20"W X 17", FAUCET HOLES ON 4" CENTERS.	DELTA MODEL 22C151 SINGLE HANDLE FAUCET. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.	2"	1 1/2"	1/2"	Yes	Yes	Yes	
SH-A	AQUATIC	13636FHARRF	CAST ACRYLIC SHOWER, 36" SQUARE INSIDE, REAR MOLDED SOAP SHELF, PROVIDE WITH BACKING PER ANSI A 117.1 STANDARDS. PROVIDE WITH BRASS DRAIN WITH CHROME STRAINER.	DELTA MODEL R10000-UNWS/T13H132 PRESSURE BALANCING VALVE WITH INTEGRAL TEMPERATURE LIMITS, SINGLE METAL LEVER HANDLE, WITH 1.5 GPM SHOWER HEAD AND ARM.	2"	1 1/2"	1/2"	Yes	Yes	No	
SS	FIAT	MSB-2424	ONE PIECE MOLDED STONE MOP BASIN, 24" SQUARE, STAINLESS STEEL INTEGRAL DRAIN BODY WITH CAULK CONNECTION, STAINLESS STEEL WALL GUARDS.	CHICAGO FAUCET MODEL 897-CPP FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER SPOUT, PAIL HOOK, WALL BRACE, INTEGRAL CHECK VALVES, METAL LEVER HANDLES.	3"	1 1/2"	3/4"	Yes	Yes	No	
UR-A	AMERICAN STANDARD	6002.001	WALL HUNG URINAL, VITREOUS CHINA, 3/4" TOP SPUD, ELONGATED FLUSHING RIM, WASHDOWN FLUSHING ACTION. MOUNT WITH RIM AT 17" AFF.	0.125 GPF PISTON TYPE MANUAL CHROME PLATED FLUSH VALVE.	2"	2"	3/4"	Yes	No	Yes	
UR-B	AMERICAN STANDARD	6002.001	WALL HUNG URINAL, VITREOUS CHINA, 3/4" TOP SPUD, ELONGATED FLUSHING RIM, WASHDOWN FLUSHING ACTION. MOUNT WITH RIM AT 24" AFF.	0.125 GPF PISTON TYPE MANUAL CHROME PLATED FLUSH VALVE.	2"	2"	3/4"	Yes	No	No	
WC-A	AMERICAN STANDARD	215AA.104	FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL.	WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT	4"	2"	1/2"	Yes	No	Yes	
WC-B	AMERICAN STANDARD	3043.001	FLOOR MOUNTED FLUSH VALVE WATER CLOSET, WHITE VITREOUS CHINA, TOP SPUD 1.28 GPF, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL.	1.28 GPF PISTON TYPE MANUAL CHROME PLATED FLUSH VALVE / WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT	4"	2"	1"	Yes	No	Yes	
WC-C	AMERICAN STANDARD	2234.001	FLOOR MOUNTED FLUSH VALVE WATER CLOSET, WHITE VITREOUS CHINA, TOP SPUD 1.28 GPF, 12" ROUGH-IN, ELONGATED 15" HIGH BOWL.	1.28 GPF PISTON TYPE MANUAL CHROME PLATED FLUSH VALVE / WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT	4"	2"	1"	Yes	No	No	
WH	WOODFORD	B67	AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTOR, LOOSE TEE KEY HANDLE, WITH RECESSED BOX WITH DOOR. PROVIDE WITH CHROME PLATED EXTERIOR FINISH.				3/4"	Yes	No	No	

GENERAL:
- PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION

NOTES:
1. FIXTURE AND INSTALLATION TO MEET REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT.
2. PROVIDE 1/4 TURN ANGLE STOPS WITH ESCUTCHEON PLATES, AND CHROME PLATED OR BRAIDED STAINLESS STEEL SUPPLIES, AND 1-1/4" CAST BRASS P-TRAP.
3. INSULATE WATER AND WASTE PIPING BELOW LAVATORY. UTILIZE INSULATION KIT EQUIVALENT TO LAVGUARD BY TRUEBRO.
4. TRIM SHALL BE PROVIDED WITH POLISHED CHROME FINISH.
5. PROVIDE CAST IRON CLOSET CARRIER OR SUPPORT SYSTEM WITH FEET ANCHOR BOLTED TO FLOOR.
6. INSTALL WITH SPOUT AT 30" AFF.
7. PROVIDE WALL HUNG PLATFORM FOR WATER HEATER EQUAL TO HOLDRITE #50-SWHP-W-C. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
8. FIXTURE AND INSTALLATION TO MEET REQUIRMENTS OF AMERICANS WITH DISABILITIES ACT FOR WATER CLOSETS FOR AGES 5 THROUGH 8.

DOMESTIC WATER EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	Notes
HWH-A	AO Smith	BTH-199	Model BTH-199, 100 gallon 97% efficient gas water heater, direct vent, 199,000 BTUH input, 235 GPH recovery @ 100 deg. temp rise. Supplied with temperature and pressure relief valve and brass drain valve. Provide with manufacturer's concentric vent kit.	2
HWH-B	AO Smith	BTH-120	Model BTH-120, 100 gallon 95% efficient gas water heater, direct vent, 120,000 BTUH input, 138 GPH recovery @ 100 deg. temp rise. Supplied with temperature and pressure relief valve and brass drain valve. Provide with manufacturer's concentric vent kit.	2
HWH-C	AO Smith	DEL-20	20 Gallon electric water heater, 1500 watts, 120v heating element, 6 GPH recovery @ 100°F temp rise. Supplied with temperature and pressure relief valve and brass drain valve.	1
HWH-D	AO Smith	DEN-40	40 Gallon electric water heater, 0.92 UEF, 4500 watts, 240v heating element, 18 GPH recovery @ 100°F temp rise. Supplied with temperature and pressure relief valve and brass drain valve.	
HWP	Bell & Gossett	NBF-36	Domestic water circulation pump, bronze body, 10 gpm @ 10' head, 120V AC. Provide clamp on aquastat for control.	

NOTES:
1. Provide wall hung platform equal to Holdrite #50-SWHP-W-C. Coordinate exact location and mounting height with Arch. and G.C.
2. Provide manufacturer's concentric vent wall termination.

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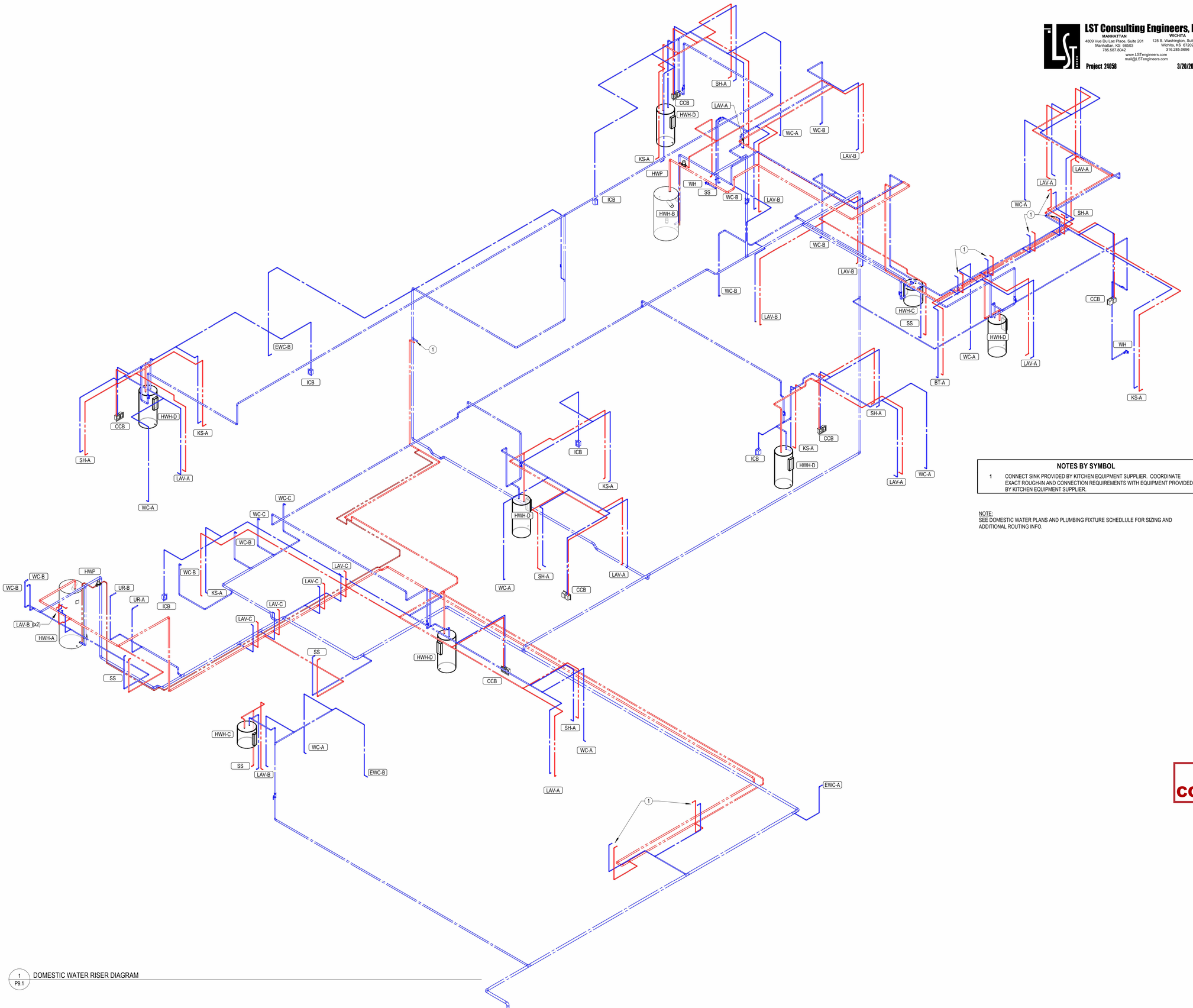

1 DOMESTIC WATER RISER DIAGRAM
P9.1

NOTES BY SYMBOL

1 CONNECT SINK PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.

NOTE:
SEE DOMESTIC WATER PLANS AND PLUMBING FIXTURE SCHEDLULE FOR SIZING AND ADDITIONAL ROUTING INFO.

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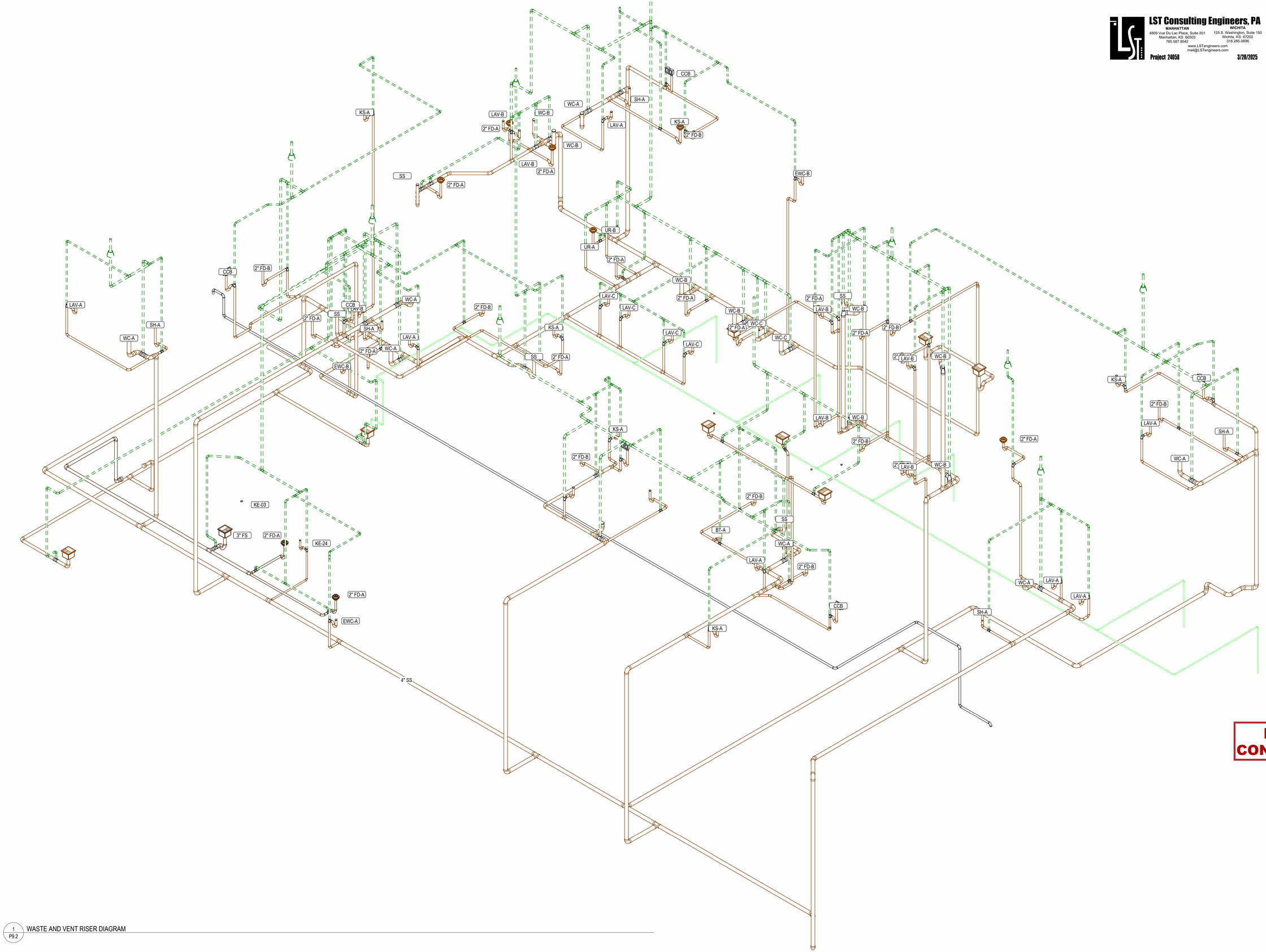

1 P9.2 WASTE AND VENT RISER DIAGRAM

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NOT FOR CONSTRUCTION

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P9.2

Electrical Abbreviations

1P	1 Pole (2P, 3P, 4P, ETC.)	MCB	Main Circuit Breaker
A, Amp	Ampere	MCC	Motor Control Center
AC	Above Counter	MDC	Main Distribution Center
ACLG	Above Ceiling	MDP	Main Distribution Panel
ADO	Automatic Door Opener	MFR	Manufacturer
AF	Amp Frame	MFS	Main Fused Disconnect Switch
AFF	Above Finished Floor	MH	Manhole
AFG	Above Finished Grade	MIC	Microphone
AFI	Arc Fault Circuit Interrupter	MIN	Minimum
		MISC	Miscellaneous
AHU	Air Handling Unit	MLO	Main Lugs Only
AL	Aluminum	MMS	Manual Motor Starter
ALT	Alternate	MOA	Multioutlet Assembly
AMP	Ampere	MSP	Motor Starter Panelboard
AMPL	Amplifier	MSBD	Main Switchboard
ANNUN	Annunciator	MSS	Motor Starter Switch
APPROX	Approximately	MT	Mount
AQ-STAT	Aquastat	MT C	Empty Conduit
ARCH	Architect, Architectural	MTS	Manual Transfer Switch
AS	Amp Switch	MTR	Motor, Motorized
AT	Amp Trip	N.C.	Normally Closed
ATS	Automatic Transfer Switch	NEC	National Electrical Code
AUTO	Automatic	NEMA	National Electrical Manufacturer's Association
AUX	Auxiliary	NFDS	Non-Fused Safety Disconnect Switch
AV	Audio Visual		
AWG	American Wire Gauge		
BATT	Battery	NIC	Not In Contract
BD	Board	NL	Night Light
BLDG	Building	N.O.	Normally Open
BMS	Building Management System	NPF	Normal Power Factor
C	Conduit	NTS	Not To Scale
CAB	Cabinet	OC	On Center
CAT	Catalog	OH	Overhead
CATV	Cable Television	OL	Overloads
CB	Circuit Breaker	PA	Public Address
CCTV	Closed Circuit Television	PB	Pull Box Or Pushbutton
CKT	Circuit	PE	Pneumatic Electric
CLG	Ceiling	PED	Pedestal
COMB	Combination	PF	Power Factor
CMPR	Compressor	PH	Phase
CONN	Connection	PIV	Post Indicating Valve
CONST	Construction	PNL	Panel
CONT	Continuation Or Continuous	PP	Power Pole
CONTR	Contractor	PR	Pair
CONV	Convector	PRI	Primary
CP	Circulating Pump	PROJ	Projection
CRT	Cathode-Ray Tube	PRV	Power Roof Ventilator
CT	Current Transformer	PT	Potential Transformer
CTR	Center	PVC	Polyvinyl Chloride (Conduit)
CU	Copper	PWR	Power
DCP	Domestic Water Circulating Pump	QUAN	Quantity
DEPT	Department	RCPT	Receptacle
DET	Detail	REQD	Required
DIA	Diameter	RM	Room
DISC	Disconnect	RSC	Rigid Steel Conduit
DIST	Distribution	RTU	Roof Top Unit
DN	Down	SC	Surface Conduit
DPR	Damper	SEC	Secondary
DS	Safety Disconnect Switch	SHT	Sheet
DT	Double Throw	SIM	Similar
DWG	Drawing	SLD	Single-Line Diagram
EC	Electrical Contractor	S/N	Solid Neutral
ELEC	Electric, Electrical	SPEC	Specification
ELEV	Elevator	SPKR	Speaker
ELU	Emergency Lighting Unit	SP	Spare
EM	Emergency	SPP	Single-Point Power
EMS	Energy Management System	SR	Surface Raceway
EMT	Electrical Metallic Tubing	SS	Stainless Steel
EP	Electric Pneumatic	SSW	Selector Switch
EQUIP	Equipment	S/S	Stop/Start Pushbuttons
EWC	Electric Water Cooler	STA	Station
EXIST	Existing	STD	Standard
EXH	Exhaust	SURF	Surface Mounted
EXP	Explosion Proof	SW	Switch
FA	Fire Alarm	SWBD	Switchboard
FABP	Fire Alarm Booster Power Supply Panel	SYM	Symmetrical
		SYS	System
FACP	Fire Alarm Control Panel	TEL	Telephone
FCU	Fan Coil Unit	TERM	Terminal
FIXT	Fixture	TL	Twist Lock
FLR	Floor	TR	Tamper Resistant
FLUOR	Fluorescent	T-STAT	Thermostat
FU	Fuse	TTC	Telephone Terminal Cabinet
FUDS	Fused Safety Disconnect Switch	TV	Television
GA	Gauge	TVTC	Television Terminal Cabinet
GAL	Gallon	TYP	Typical
GALV	Galvanized	UC	Under Counter
GC	General Contractor	UE	Underground Electrical
GEN	Generator	UG	Underground
GFI	Ground Fault Circuit Interrupter	UH	Unit Heater
GFP	Ground Fault Protector	UT	Underground Telephone
GND	Ground	UTIL	Utility
GRS	Galvanized Rigid Steel (Conduit)	UV	Ultraviolet
GYP BD	Gypsum Board	V	Volt
HOA	Hands-Off-Automatic Switch	VA	Volt-Amperes
HORIZ	Horizontal	VDT	Video Display Terminal
HP	Horsepower	VERT	Vertical
HPF	High Power Factor	VFD	Variable Frequency Drive
HT	Height	VOL	Volume
HTG	Heating	W	Watt
HTR	Heater	W/	With
HV	High Voltage	WG	Wire Guard
HVAC	Heating, Ventilating And Air Conditioning	WH	Water Heater
		W/O	Without
IC	Interrupting Capacity	WP	Weatherproof
IG	Isolated Ground	XFMR	Transformer
IMC	Intermediate Metal Conduit	XFR	Transfer
INCAND	Incandescent		
IR	Infrared		
IW	Interlock With		
J-BOX	Junction Box	∠	Angle
KV	Kilovolt	@	At
KVA	Kilovolt-Ampere	▲	Delta
KVAR	Kilovolt-Ampere Reactive	'	Feet
KW	Kilowatt	"	Inches
KWH	Kilowatt Hour	#	Number
LOC	Locate Or Location	Ø	Phase
LT	Light	C	Center Line
LTG	Lighting	P	Plate
LTNG	Lightning		
LV	Low Voltage		
MAX	Maximum		
MAG.S	Magnetic Starter		
M/C	Momentary Contact		
MC	Mechanical Contractor		

Electrical Symbol Legend

Lighting Symbols

- Lighting Fixtures, Typical, Rectangular (Various Symbols)
- Lighting Fixtures, Typical, Round (Various Symbols)
  Center dot indicates pendant.
  Chevron indicates wall wash.
- Wall-mounted fixtures, Typical (Various Symbols)
- Strip Fixture
- Directional Light, Track Light, Flood Light
- Linear Light, Tape Light
- Emergency Lighting Unit, Ceiling-Mounted, Integral Battery
- Emergency Lighting Unit, Ceiling-Mounted, Remote Battery
- Emergency Lighting Unit, Wall-Mounted, Integral Battery
- Emergency Lighting Unit, Wall-Mounted, Remote Battery
- Exit Light, Ceiling-Mounted.
  Shading and arrows indicate faces and directional chevrons.
- Exit Light, Wall-Mounted.
  Shading and arrows indicate faces and directional chevrons.
- Exit/ELU Combo
- Pole/Area Lights
- Post-Top Area Light
- Bollard Light
- Hatch indicates light on an emergency or life safety circuit.
- Single-Pole Switch
- Two-Pole Switch
- Three-Pole Switch
- Switch Modifiers:
  3: 3-Way — OS: Occupancy Sensor
  4: 4-Way — VS: Vacancy Sensor
  K: Keyed — CT: Above-Counter
  D: Dimming — LV: Low-Voltage
  T: Timer — M: Motor-Rated
- Lighting Contactor
- LC Lighting Control Panel
- OS Occupancy Sensor (# indicates type)
  1 = line voltage
  2 = low voltage
- PP Low-voltage power pack

Lighting Tags

Absence of a switch designation on a lighting fixture indicates fixture is controlled by the only switch in the space. An "x" in place of the switch designation indicates unswitched.

Switch ID indicated by a lowercase letter. Switch IDs are unique per space. A switch with an ID "a" controls all devices within the space in which it is located tagged with "a". A switch without a tagged ID controls all lighting fixtures within a space. ID tags may be used on control devices other than switches, such as occupancy sensors or contactors.

Miscellaneous

- Area Not in Contract
- # Note by Symbol
  Callout:
  Top Value: Detail Number on Sheet
  Bottom Value: Sheet Number of Detail
- Room: 1 — Room Name and Number

Power Symbols

- Simplex Receptacle
- Duplex Receptacle
- Quadruplex Receptacle
- 6-30 Special Receptacle, Type as Indicated
  Receptacle Modifiers:
  ##: Height AFF(to center)
  CT: Device Mounted Above Counter Top
  IG: Isolated Ground
  H: Device Mounted Horizontally
  WP: Weatherproof In-Use Cover
- Half shading indicates split (typically switched)
- Outside shading indicates tamperproof device
- Center shading indicates GFI type
- Full shading indicates tamperproof GFI type
- Multioutlet Assembly
  Filled squares indicate 120V outlet
  Open squares indicate with USB
- Cord Reel, Device Varies
- Drop Cord, Device Varies
- Junction Box
- F1 Floor Box, see schedule for type
- Emergency Power Off
- DO Door Opener Push Plate
- M Power Meter
- Safety Switch, Fused
- Safety Switch, Unfused
- Motor Starter
- Combination Starter/Disconnect
- Contactor

Power Device and Equipment Tags

LP1A:1 Electrical DeviceTags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).

XX-1 Equipment Tags: Equipment ID is indicated by an underlined tag adjacent to the equipment. See the equipment connection schedule for description, electrical requirements, and panel and circuit number. Symbols/graphic appearance of equipment varies.

Wiring

- Solid, arced lines connecting equipment, devices, or fixtures indicate unswitched power circuiting. Wires are only intended to indicate to what circuit devices are connected. Actual connections, circuit routing, installtion, junction boxes, etc. shall be field-determined by the contractor.
- Dashed, arced lines connecting equipment, devices, or fixtures indicate switched power.
- Home run to branch circuit panelboard. The equipment name and circuit number(s) are indicated, separated by a hyphen. Homeruns are only intended to indicate panel and circuit number. Actual homerun location shall be field-determined by the contractor.

Power Distribution Equipment

Hatched fill indicates distribution panel or switchboard.
Solid fill indicates branch panel or load center.
Dashed box indicates code-required clearance (width and depth).
Door indicates front of recessed panel.

Devices and fixtures are tagged with Panel and circuit number. For example, a device tagged with "A;1" indicates the device is circuited to panel designated "A," circuit number 1.

T1 Transformer: Typically transformer names begin with or contain the letter "T". See Single-Line Diagram for description and requirements.

Telecom Symbols

Wall / Ceiling / Floor

- Data Outlet
- Telephone Outlet
- Data/Telephone Outlet
  Outlet Modifiers:
  ##: Height AFF (to center)
  CT: Mounted Above Counter Top
- Wireless Access Point
- TV Outlet

Fire Alarm Symbols

- F Manual Pull Station
- F Horn, Wall
- F Horn, Ceiling
- Strobe, Wall, Candela as indicated
- Strobe, Ceiling, Candela as indicated
- Horn/Strobe, Wall, Candela as indicated
- Horn/Strobe, Ceiling, Candela as indicated
- Remote Indicator w/ Test Switch, Wall
- Remote Indicate w/ Test Switch, Ceiling
- Smoke Detector
- Smoke Detector - 120V Local (Apartments)
- Heat Detector
- Carbon Monoxide Detector
- Beam Detector T: Transmitter R: Receiver
- Combination Detector (Up to Three)
- Duct Smoke Detector
- Smoke Damper
- DH Door Holder
- DCL Door Closer
- Fire Service Phone
- XXX Addressible Module
  AIM: Addressible Input Module
  AOM:Addressible Output Control Module
  AIO: Addressible Input/Output Module
- XXXX Fire Alarm Control Unit
  EVAC: Voice Evacuation Control Panel
  FAA: Fire Alarm Annunciator
  FACP: Fire Alarm Control Panel
  FATC: Fire Alarm Terminal Cabinet
  NACP: Notification Appliance Circuit Panel
  FAMN: Fire Alarm Mass Notification Control Panel
- XX Supervisory or Interface Device
  PIV: Post Indicator Valve Supervisory
  PS: Pressure Switch
  R: Non-Addressible Relay
  VS: Valve Supervisory Switch
  WF: Water Flow Switch

Security Symbols

- Security Camera
  PTZ: Pan/Tilt/Zoom
- CR Card Reader
- CK Card Reader with Keypad
- CC Closed Circuit TV Outlet
- DC Door Contact
- ES Electric Strike
- IC Intercom
- ML Magnetic Lock
- RX Request to Exit Button
- REX Request to Exit Sensor
- MD Motion Detector
- XXX Security Control Unit
  SCP: Security Control Panel
  SPS: Security Power Supply Unit

Phasing

(Typical All Symbols and Equipment)

- Existing to Remain
- Existing to Be Demolished
- New

GENERAL ELECTRICAL NOTES

A. COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL INSTALLATION. CONDUITS SHALL BE ROUTED THROUGH JOIST WEBS WHERE POSSIBLE.
B. VERIFY EXACT PLACEMENT OF ALL LUMINAIRES, DEVICES, AND EQUIPMENT SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.
C. ELECTRICAL EQUIPMENT AND DEVICES SHALL BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
D. DEFINITION OF TERMS
"SHALL": ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.
"FURNISH": CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING.
"INSTALL": CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND CONSTRUCTION EQUIPMENT NECESSARY TO SET IN PLACE, CONNECT, CALIBRATE AND TEST EQUIPMENT FURNISHED BY HIM OR OTHERS.
"PROVIDE": CONTRACTOR SHALL FURNISH AND INSTALL.

MOUNTING HEIGHT REQUIREMENTS:

UNLESS SPECIFICALLY INDICATED OTHERWISE, THE FOLLOWING MOUNTING HEIGHTS SHALL APPLY:

• RECEPTACLES	16" TO BOTTOM
• TELECOMMUNICATIONS OUTLETS	16" TO BOTTOM
• LIGHT SWITCHES	48" TO TOP
• THERMOSTATS	48" TO TOP
• HUMIDISTATS	48" TO TOP
• FIRE ALARM PULL STATIONS	48" TO TOP
• FIRE ALARM NOTIFICATION DEVICES	LOWER OF: 88" TO BOTTOM OR TOP AT 6" BELOW CEILING

GENERAL LIGHTING NOTES

A. THE CIRCUITING OF ALL LUMINAIRES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
B. CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
C. DIRECT CURRENT POWER WIRING FROM EXIT SIGNS TO REMOTE EXTERIOR EMERGENCY LIGHTING HEADS SHALL BE (2) #10 IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.
D. IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTING CONTROL IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSOR/POWER PACK SHALL SWITCH LEG SHALL BE WIRED IN SERIES WITH WALL SWITCHES TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS.
E. CONTROL WIRING FOR 0-10 V-dc DIMMING SIGNAL CIRCUITS SHALL BE NEC CLASS 1, ROUTED IN SAME RACEWAY/CABLE WITH LIGHTING CIRCUIT POWER CONDUCTORS. WIRING SHALL CONSIST OF (2) #16 SOLID CU THHN OR TFN CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+ V-dc) AND PINK (V-dc). WHERE MC-CABLE IS USED FOR FINAL 6' POWER CONNECTION WHIP TO LUMINAIRE, UTILIZE "LUMINARY" TYPE MC-CABLE WITH INTEGRAL CLASS 1 CONTROL WIRING.

GENERAL POWER NOTES

A. THE CIRCUITING OF ALL DEVICES HAS BEEN SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL FOLLOW THIS CIRCUITING LAYOUT.
B. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUBCONTRACTORS. COORDINATE CONDUIT STUB-UP AND POWER CONNECTIONS PRIOR TO COMMENCING ROUGH-IN WORK. ELECTRICAL DEVICES (DISCONNECTS, RECEPTACLES, ETC.) INSTALLED ON EQUIPMENT SHALL BE MOUNTED ON A NON-REMOVABLE PANEL OF THE EQUIPMENT. FIELD COORDINATE EXACT DEVICE MOUNTING LOCATIONS PRIOR TO INSTALLATION.
C. WALL MOUNTED HVAC CONTROL DEVICES (THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, CO_2 SENSORS, ETC) SHALL BE PROVIDED BY MECHANICAL CONTRACTOR. UNLESS NOTED OTHERWISE, ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE GANG WALL BOX WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING WITH NYLON BUSHINGS AND PULLSTRING IN RACEWAY. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF DEVICES.

GENERAL TELECOMMUNICATIONS NOTES

A. PROVIDE THE FOLLOWING RACEWAY ROUGH-IN FOR TELECOMMUNICATIONS OUTLET TYPES INDICATED:
- WALL PHONE OUTLET: 2"x4"x2-1/8" DEEP DEVICE BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- PHONE/DATA OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 1-GANG DEVICE RING AND 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- TV OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 2-GANG DEVICE RING AND (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING.

B. PROVIDE NYLON BUSHINGS FOR ALL CONDUIT ENDS NOT CONNECTED TO A BOX OR FITTING TO PROTECT CABLING FROM DAMAGE.
C. CONDUITS FROM EACH OUTLET SHALL BE STUBBED 2" ABOVE THE FINISHED CEILINGS IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILINGS, STUB CONDUIT INTO STRUCTURAL JOIST SPACE.
D. PROVIDE BLANK, STAINLESS STEEL COVER PLATES FOR ALL OUTLETS NOT ACTIVATED BY OWNER.
E. PROVIDE SUITABLE PULL STRING IN ALL CONDUITS.
F. ALL TELECOMMUNICATIONS AND A/V CABLING, JACKS, CONNECTORS, TERMINATIONS, EQUIPMENT AND TESTING SHALL BE PROVIDED BY OWNER.

GENERAL FIRE ALARM NOTES

A. FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT WHERE EXPOSED, INACCESSIBLE, AND WHERE SUBJECT TO PHYSICAL DAMAGE.
B. DUCT TYPE SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY FIRE ALARM CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR.
C. FIRE ALARM SYSTEM HVAC SHUT DOWN RELAYS SHALL BE PROVIDED AND WIRED TO FIRE ALARM CONTROL PANEL BY FIRE ALARM CONTRACTOR. LOCATE RELAYS WITHIN 5' OF HVAC EQUIPMENT AND PROVIDE CONDUIT WITH PULL STRING FROM RELAY TO EQUIPMENT. UNIT SHUT DOWN CONTROL WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
D. AT LOCATION OF SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS, PROVIDE DUCT OR AREA SMOKE DETECTOR (AS SHOWN ON PLANS) WITHIN 5' OF DAMPER AND WIRE TO FIRE ALARM CONTROL PANEL. PROVIDE FIRE ALARM RELAY FOR CONTROL OF 120V POWER TO DAMPER ACTUATOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE.
E. IN ADDITION TO VALVES INSTALLED ON FIRE SPRINKER SYSTEM RISER, ALL VALVES INSTALLED OUTSIDE THE BUILDING (POST INDICATOR VALVE, TAPPING SLEEVE VALVE, ETC.) SHALL BE SUPERVISED BY THE FIRE ALARM SYSTEM. PROVIDE ADDRESSABLE MONITORING MODULE AND SURGE PROTECTION DEVICE (DITEK #DTK-2MHLP48B) FOR EACH MONITORED VALVE. COORDINATE WITH GC AND SITE WORK CONTACTOR FOR ALL VALVES INSTALLED. MONITORING IS NOT REQUIRED FOR VALVES INSTALLED IN ROADWAY BOXES BY THE MUNICIPALITY/PUBLIC UTILITY.

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Project 24058 **3/20/2025**

Electrical Sheet List

GENERAL ELECTRICAL DEMOLITION NOTES

1. REMOVE ALL NM, BX, MC, AC AND OTHER CABLE SYSTEMS AND WIRING FOR ALL ABANDONED CIRCUITS.
2. REMOVE ALL ABANDONED CONDUITS ABOVE LAY-IN CEILINGS, EXPOSED CONDUITS, FLEXIBLE CONDUITS, SURFACE RACEWAY, SURFACE MOUNTED OUTLET/JUNCTION BOXES AND EQUIPMENT UNLESS NOTED OTHERWISE.
3. WHERE ABANDONED FEEDERS AND BRANCH CIRCUITS ARE CONCEALED WITHIN WALLS, FLOORS AND HARD CEILINGS THAT ARE TO REMAIN, REMOVE ALL WIRING AND CAP CONDUITS AT BOTH ENDS.
4. WHERE ABANDONED OUTLET AND JUNCTION BOXES ARE RECESSED FLUSH IN WALLS, FLOORS AND HARD CEILINGS THAT ARE TO REMAIN, REMOVE ALL WIRING AND WIRING DEVICES AND PROVIDE BLANK STAINLESS STEEL COVERPLATES FOR BOXES 6"x6" AND SMALLER. REMOVE BOXES LARGER THAN 6"x6" AND PATCH SURFACE TO MATCH EXISTING. COORDINATE WITH ARCHITECT FOR FINAL DIRECTION.
5. ALL EQUIPMENT, FIXTURES, RACEWAY, WIRING AND DEVICES WHICH ARE REMOVED SHALL BE REMOVED FROM THE JOB SITE BY THIS CONTRACTOR, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. CONFORM TO ALL LAWS AND ORDINANCES IN EFFECT CONCERNING THE PROPER DISPOSAL OF LUMINAIRES AND LAMPS.
6. COORDINATE THE REMOVAL OF MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL POWER AND CONTROL CIRCUITS FOR EQUIPMENT BEING REMOVED. REMOVE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH DEMOLISHED MECHANICAL AND PLUMBING EQUIPMENT (DISCONNECT SWITCHES, MOTOR STARTERS, RELAYS, ETC).

GENERAL ELECTRICAL REMODEL NOTES

1. DESIGN IS BASED ON FIELD INFORMATION, AS-BUILT DRAWINGS AND OWNER FURNISHED INFORMATION. CONTRACTOR SHALL VERIFY ACCURACY OF ALL EXISTING CONDITIONS. IN CASE OF DISCREPANCY, PROVIDE ALL NECESSARY CONDUIT, WIRE, BOXES, FITTINGS, ETC. FOR A COMPLETE OPERATING ELECTRICAL SYSTEM.
2. EXISTING EQUIPMENT, WIRING DEVICES, LIGHTS, CONDUIT, WIRING, ETC., NOT DISTURBED BY NEW CONSTRUCTION WORK SHALL BE MAINTAINED AND UNDAMAGED. THESE ITEMS, IF SHOWN, ARE SHOWN FOR INFORMATION PURPOSES ONLY UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND TO BECOME FAMILIAR WITH ALL WORK TO BE PERFORMED. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR OF THE RESPONSIBILITY FOR PERFORMING ALL WORK NECESSARY TO PROVIDE A WORKMANLIKE INSTALLATION.
3. FIELD VERIFY THE LOCATION AND CONDITION OF ALL EXISTING UTILITIES AND PROVIDE PROTECTION FOR THESE UTILITIES DURING THE COURSE OF WORK. EXISTING UTILITIES, BUILDING MATERIALS AND ASSOCIATED ITEMS DAMAGED BY THIS CONTRACTOR, OR ANY PARTIES ASSOCIATED WITH THIS CONTRACTOR, SHALL BE REPAIRED OR REPLACED AT THIS CONTRACTOR'S EXPENSE, IN A TIMELY MANNER, AND TO THE OWNER'S WRITTEN ACCEPTANCE.
4. THERE SHALL NOT BE ANY INTERRUPTION TO EXISTING SERVICES (ELECTRICAL, FIRE ALARM, TELEPHONE, ETC.) WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER, ARCHITECT, AND ALL OTHER PARTIES INVOLVED.
5. MAINTAIN ACCURATE RECORDS OF ALL MODIFICATIONS TO THE EXISTING SYSTEMS WHICH ARE TO REMAIN AND DELIVER ALL RECORD DRAWINGS INDICATING SUCH MODIFICATIONS TO THE OWNER UPON COMPLETION OF THE PROJECT. MAINTAIN IN THE PROJECT CONSTRUCTION OFFICE, AS THE WORK PROGRESSES, AN UP-TO-DATE, NEATLY MARKED COPY OF THESE DRAWINGS FOR REVIEW BY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE.
6. WHERE NEW ADDITION WORK OR REMODELING INTERFERES WITH CIRCUITS IN ROOMS OTHERWISE UNDISTURBED, EXISTING CIRCUITS SHALL BE REWORKED AS REQUIRED TO MAINTAIN SERVICE.
7. EXISTING ROUGH-IN BOXES AND CONDUIT MAY BE UTILIZED FOR NEW DEVICES IF THEY ARE OF PROPER SIZE AND MATERIAL, AND ARE IN SUITABLE LOCATIONS. HOWEVER, NEW DEVICES AND WIRING MUST BE INSTALLED.
8. WHERE EXISTING EQUIPMENT IS BEING REPLACED WITH NEW EQUIPMENT OR RELOCATED EQUIPMENT, ELECTRICAL CONTRACTOR MAY REUSE THE EXISTING CONDUIT AND ROUGH-IN LOCATIONS IF POSSIBLE, BUT ALL CONDUCTORS SHALL BE NEW.
9. CIRCUITING SHOWN IN REMODELED AREAS MAY BE MODIFIED TO SUIT FIELD CONDITIONS. HOWEVER, KEEP CIRCUITS APPROXIMATELY AS SHOWN ON PLANS TO AVOID OVERLOADING OF CIRCUITS AND TO LIMIT VOLTAGE DROP.
10. MAINTAIN FIRE RATING OF ALL EXISTING WALLS, FLOORS AND CEILING SYSTEMS.
11. NEW DEVICES INSTALLED ON EXISTING WALLS AND CEILINGS IN OCCUPIED SPACES SHALL HAVE WIRING INSTALLED CONCEALED. SURFACE RACEWAY (WIREMOLD) SHALL ONLY BE INSTALLED ON EXISTING WALLS AND HARD CEILINGS WHERE WIRING CANNOT BE INSTALLED CONCEALED (I.E. CONCRETE, BRICK,CMU, ETC). OBTAIN APPROVAL FROM ARCHITECT, ENGINEER, AND OWNER PRIOR TO EACH OCCURRENCE WHERE SURFACE RACEWAY IS INSTALLED. SURFACE RACEWAY SHALL BE STEEL, SINGLE CHANNEL TYPE, IVORY COLORED, COMPLETE WITH ALL ELBOWS, BOXES, SUPPORTS, COVERS, ETC. AS REQUIRED. SURFACE RACEWAY SYSTEMS SHALL BE MANUFACTURED BY WIREMOLD, HUBBELL, OR MONOSYSTEMS, AND SHALL BE OF TYPES AS FOLLOWS:
- POWER AND FIRE ALARM: WIREMOLD 500 SERIES
- COMMUNICATIONS AND A/V: WIREMOLD 2400 SERIES

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101 N. SANTA FE AVE.

REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

2025.03.20 16:48:28-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

E0.1

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Project 24058 3/20/2025

NOTES BY SYMBOL

1 INSTALL LUMINAIRE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO PIT LADDER AT 48" ABOVE FLOOR LANDING.

1 E1.1 BASEMENT LIGHTING PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

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2025.03.20 16:48:47-05'00'

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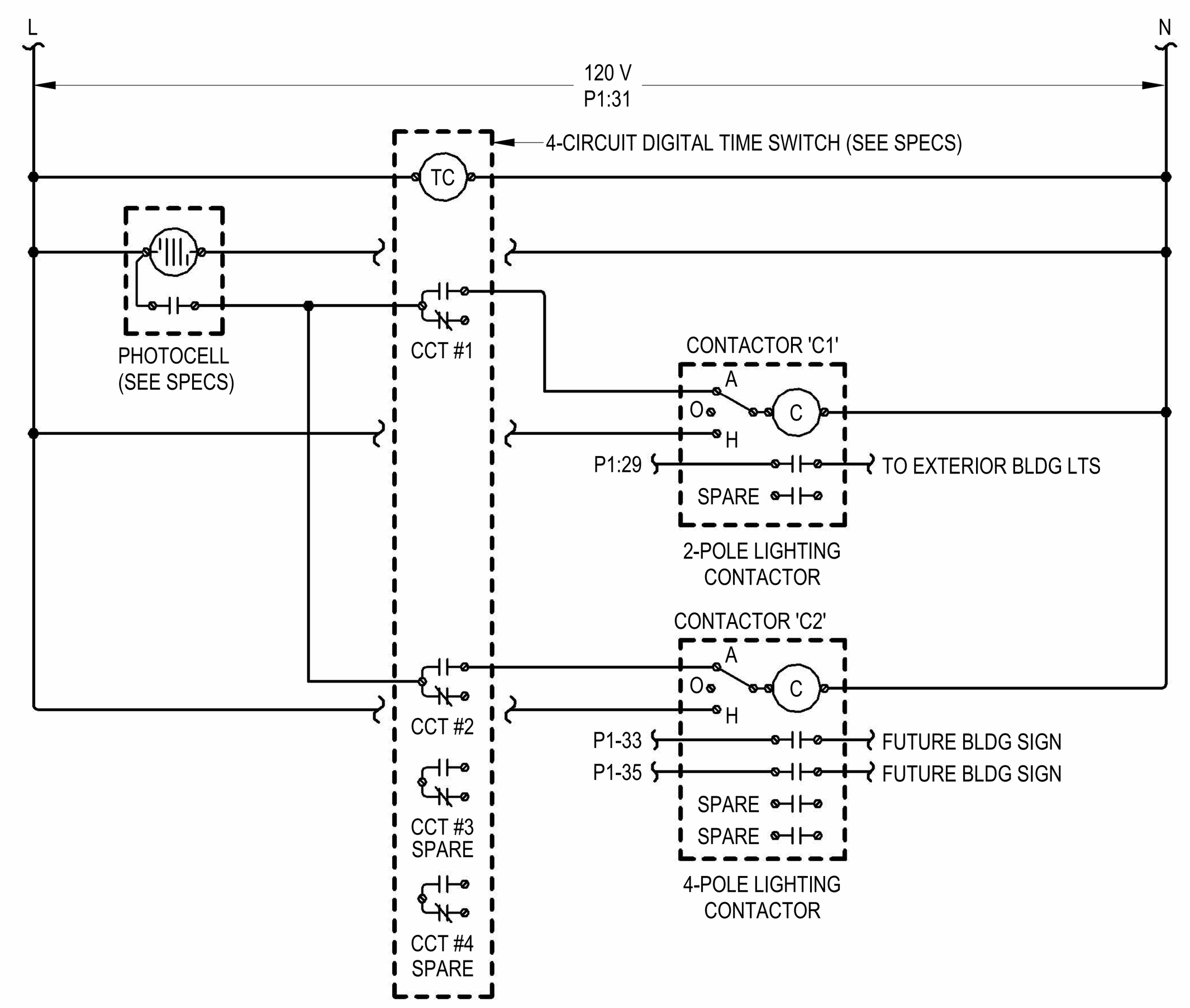
SHEET NO.:

E1.1



2 E1.2 EXTERIOR LIGHTING CONTROL DIAGRAM
NO SCALE

LST Consulting Engineers, PA

MANHATTAN
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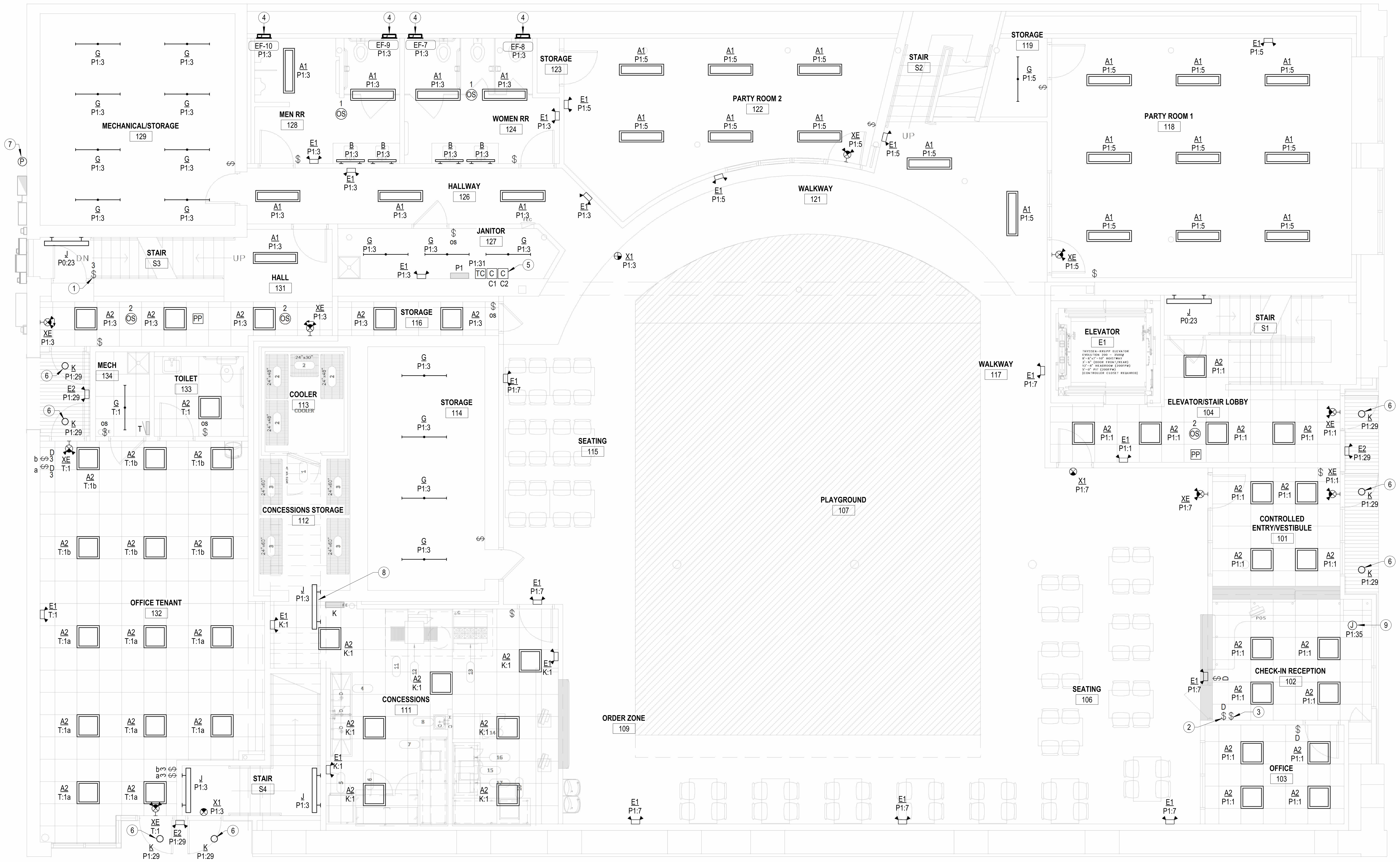
Project 24058 3/20/2025

NOTES BY SYMBOL

1. LIGHT SWITCH FOR CONTROL OF BASEMENT LIGHTS.
2. LIGHT SWITCH FOR CONTROL OF PLAYGROUND LIGHTS.
3. LIGHT SWITCH FOR CONTROL OF HALLWAY 126 AND WALKWAY 121.
4. SWITCH EXHAUST FAN WITH ROOM LIGHTS.
5. EXTERIOR LIGHTING CONTROLS. SEE DETAIL 2, THIS SHEET FOR MORE INFORMATION.
6. ROUTE CIRCUIT THROUGH CONTACTOR 'C1' IN JANITOR 127.
7. PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTS. SEE DETAIL 2, THIS SHEET FOR MORE INFORMATION.
8. INSTALL FIXTURE ABOVE INTERMEDIATE LANDING OF STAIR S4.
9. PROVIDE JUNCTION BOX AND 120V CIRCUIT ABOVE CEILING FOR FUTURE EXTERIOR BUILDING SIGN. ROUTE CIRCUIT THROUGH CONTACTOR 'C2'. SEE DETAIL 2, SHEET E1.2.



1 E1.2 1ST FLOOR LIGHTING PLAN
3/16" = 1'-0"

JonesGillamRenz
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101 N. SANTA FE AVE.
REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

NOT FOR CONSTRUCTION

2025.03.20 16:49:06-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

E1.2

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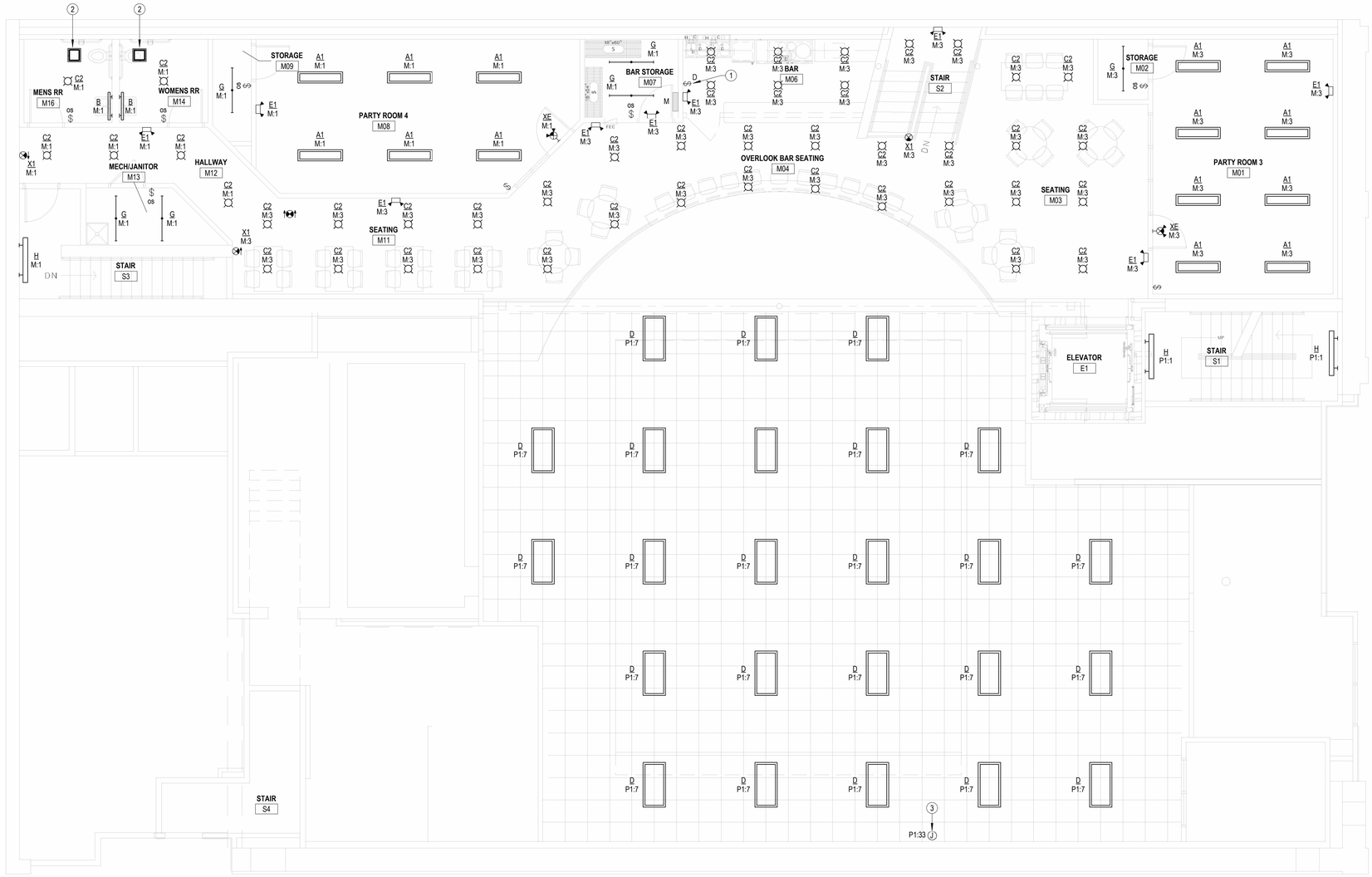
Project 24058 3/20/2025

NOTES BY SYMBOL

1. LIGHT SWITCH FOR CONTROL OF MEZZANINE STAIR, HALLWAY, SEATING, AND BAR LIGHTING.
2. SWITCH EXHAUST FAN WITH ROOM LIGHTS.
3. PROVIDE JUNCTION BOX AND 120V CIRCUIT ABOVE CEILING FOR FUTURE EXTERIOR BUILDING SIGN. ROUTE CIRCUIT THROUGH CONTACTOR 'C2'. SEE DETAIL 2, SHEET E1.2.



1 E1.3 MEZZANINE LIGHTING PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

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JOHN F. LEWIS 14654 REGISTERED PROFESSIONAL ENGINEER KANSAS

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REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

E1.3

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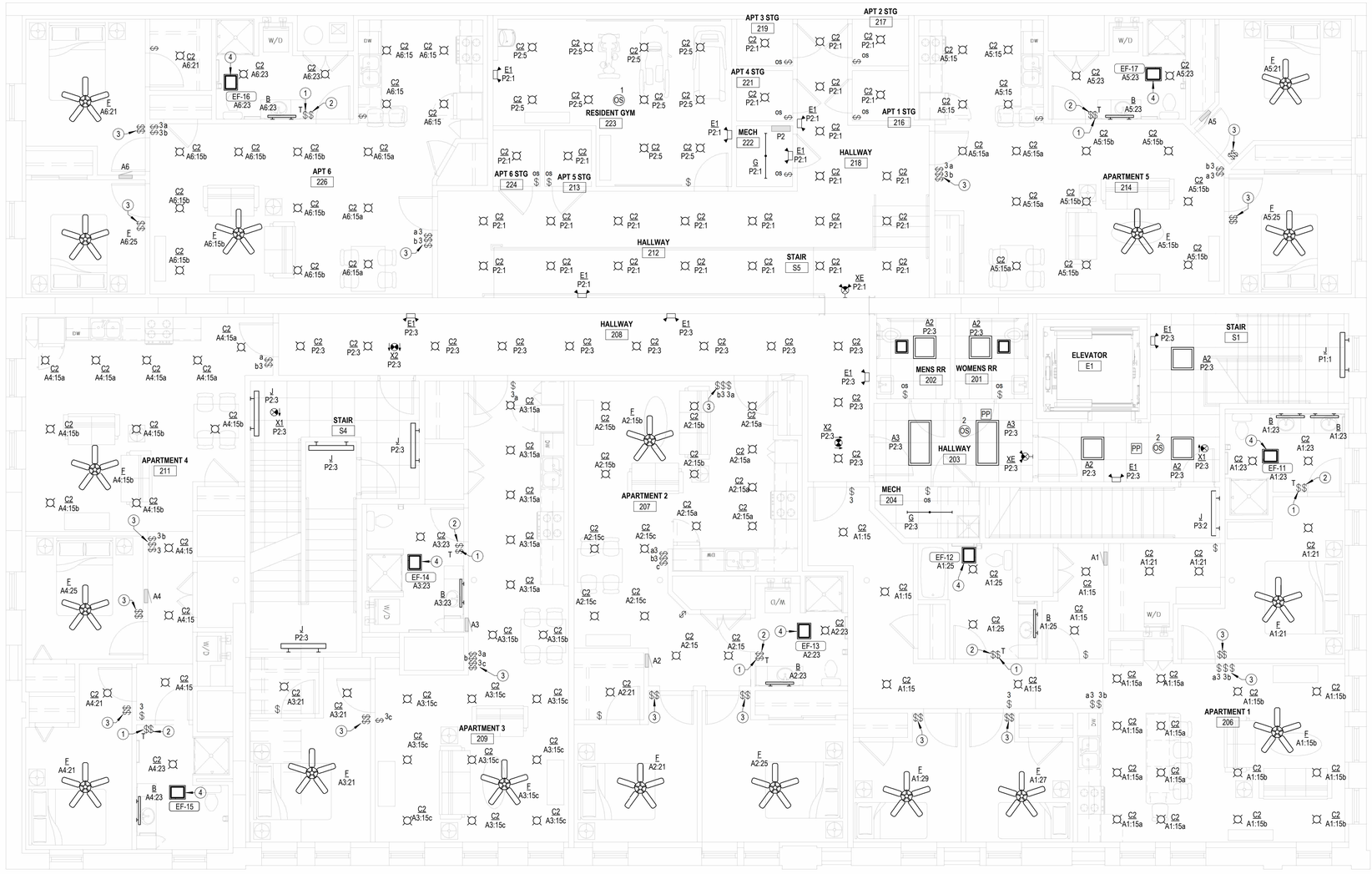
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1	PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER 'SMART EXHAUST' FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTIONS TO OPERATE FAN AS INDICATED BELOW AND COORDINATE WITH M.C.: APARTMENT 1: 27 MINUTES PER HOUR (x2 FANS) APARTMENTS 2,4,5,6: 39 MINUTES PER HOUR APARTMENT 3: 31 MINUTES PER HOUR
2	SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
3	SWITCH CEILING FAN AND LIGHT SEPARATELY.
4	CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.



1 E1.4 2ND FLOOR LIGHTING PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

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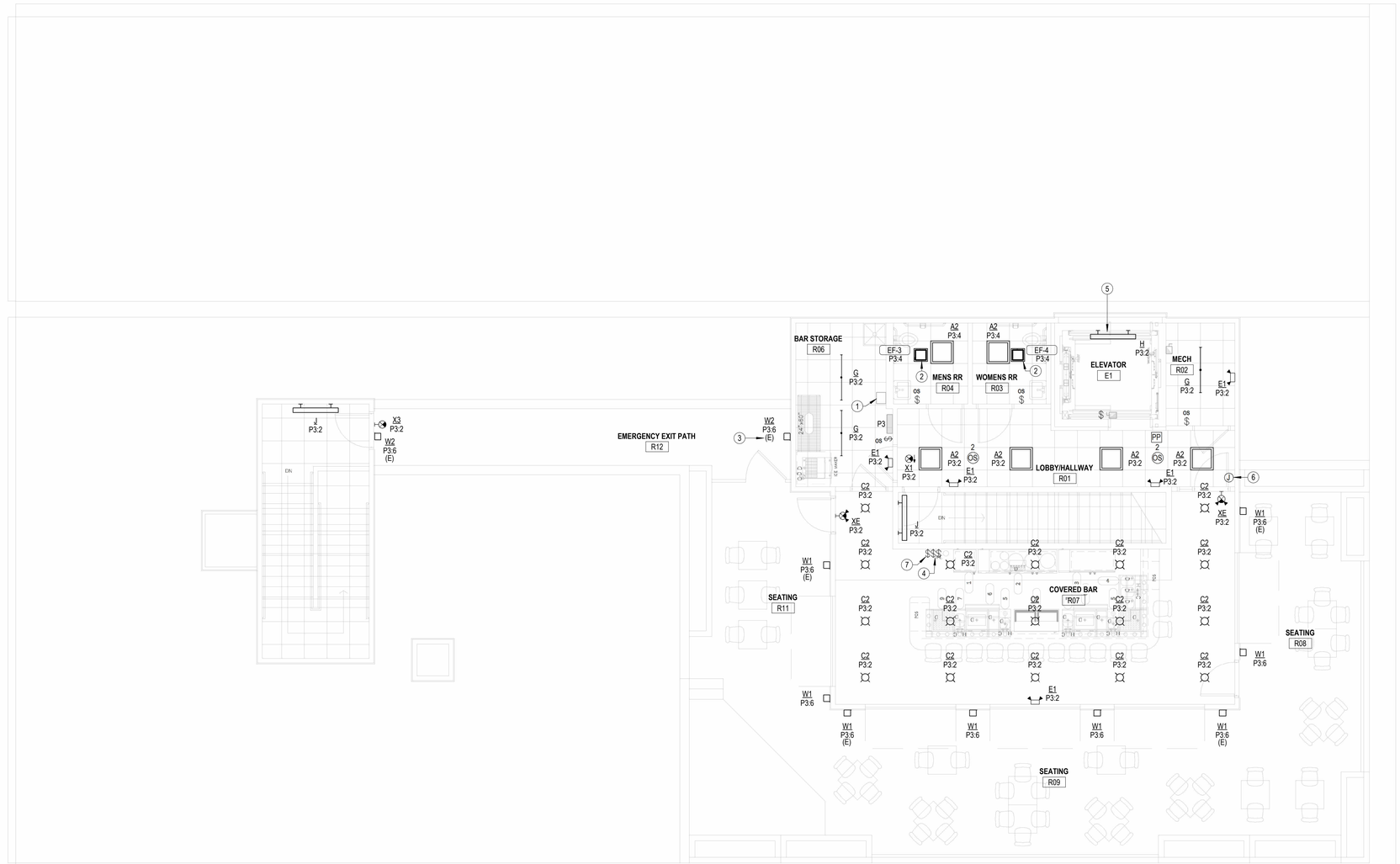
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1	PROVIDE CENTRAL LIGHTING INVERTER TO PROVIDE 12 VAC POWER TO EXTERIOR LUMINAIRES FOR 90 MINUTES UPON LOSS OF NORMAL POWER. INVERTER SHALL BE 120V IN / 120V OUT, WITH 185 VA CAPACITY, AND SHALL BE CAPABLE OF 'NORMALLY ON', 'NORMALLY OFF', OR 'SWITCHED' LOADS AND SHALL BE UL 924 LISTED. INTEGARAL BATTERY SHALL HAVE SELF-DIAGNOSTICS AND COME WITH 3 YEAR FULL AND 7 YEAR PRO-RATED WARRANTY. EQUAL TO BODINE ELI-S-185. WIRE UNIT FOR SWITCHED OPERATION TO ALLOW FOR LUMINAIRE CONTROL VIA SWITCH IN BAR AREA.
2	SWITCH EXHAUST FAN WITH ROOM LIGHTS.
3	EXTERIOR FIXTURES DENOTED WITH (E) SHALL BE CONNECTED TO LIGHTING INVERTER TO ALLOW EMERGENCY OPERATION.
4	PROVIDE SWITCHES FOR BAR LIGHTING AND EXTERIOR PATIO LIGHTING.
5	INSTALL LUMINAIRE ON WALL OF ELEVATOR HOIST WAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO HOISTWAY LADDER AT 48" ABOVE FLOOR LANDING.
6	PROVIDE JUNCTION BOX AND 120V CIRCUIT ABOVE CEILING FOR FUTURE EXTERIOR BUILDING SIGN. CONTROL VIA WALL SWITCH AT BAR AREA.
7	LIGHT SWITCH FOR CONTROL OF FUTURE BUILDING SIGN CIRCUIT.



1 E1.5 ROOF LIGHTING PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

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JOHN P. GILLAM 14654 REGISTERED PROFESSIONAL ENGINEER KANSAS

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Project 24058 **3/20/2025**

NOTES BY SYMBOL

1. INSTALL RECEPTACLE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER.
2. SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
3. PROVIDE 120V POWER CONNECTION TO ELEVATOR SUMP PUMP ALARM PANEL AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
4. PROVIDE 30A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7832D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
5. PROVIDE 50A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7852D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
6. PROVIDE 60A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7862D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
7. 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCH(ES) AND BELL. PROVIDE #8 CU BONDING JUMPER FROM CIRCUIT EQUIPMENT GROUNDING CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM INSTALLER.

1 E1.6 BASEMENT POWER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

JOHN F. LEWIS 14654 LICENSED PROFESSIONAL ENGINEER

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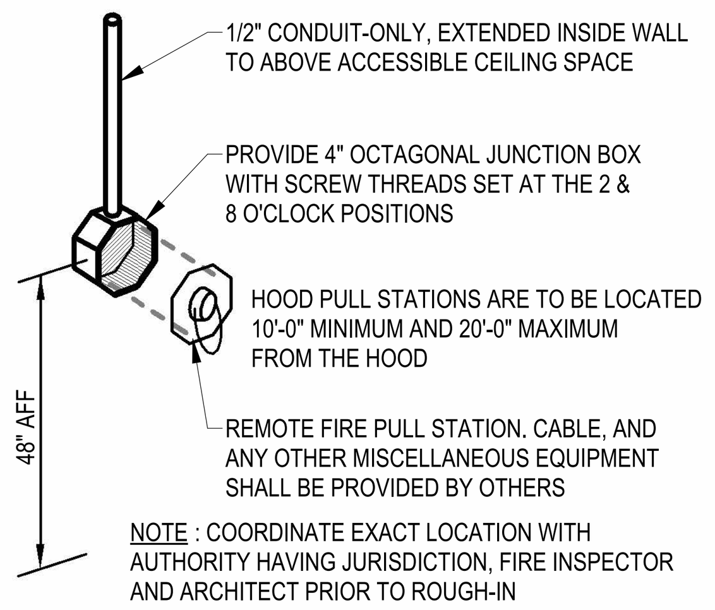
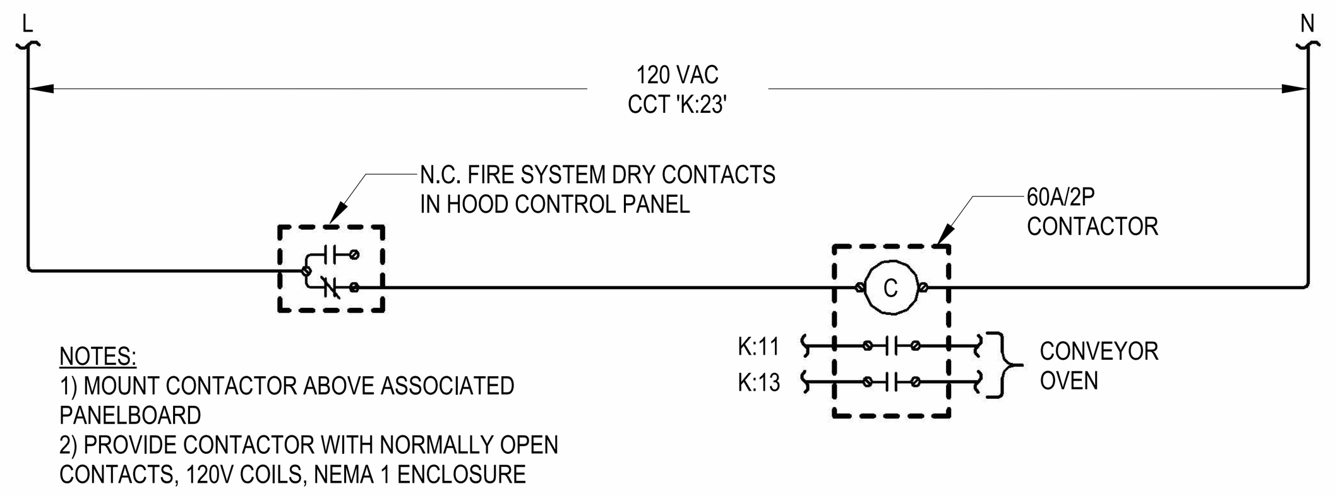


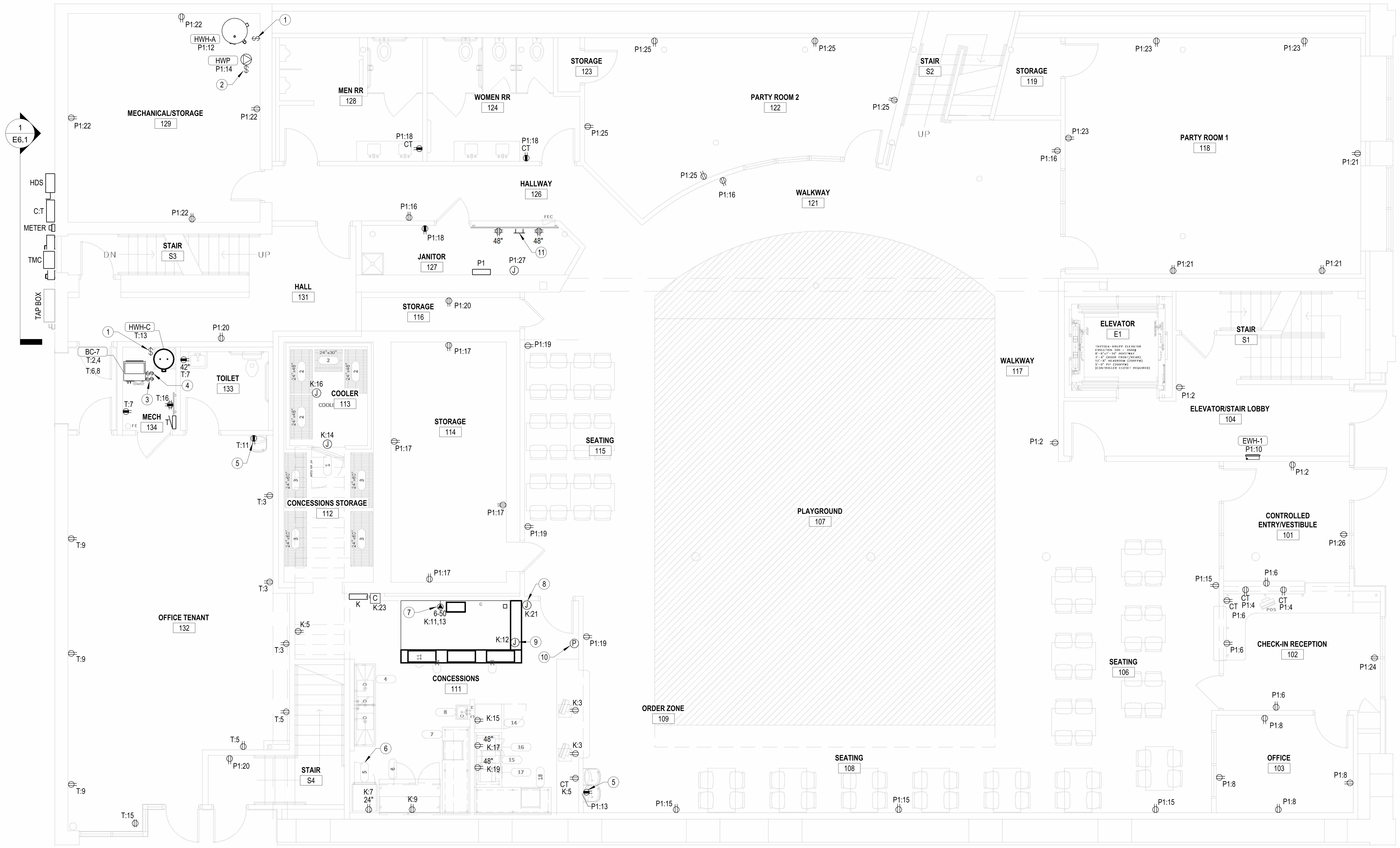
2 E1.7 HOOD FIRE PULL STATION
NO SCALE



3 E1.7 HOOD EQUIPMENT SHUT-DOWN
NO SCALE

NOTES BY SYMBOL

1	PROVIDE 20A/1P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
2	ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
3	PROVIDE 60A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7862D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
4	PROVIDE 30A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7832D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
5	COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR. WIRE FROM LOAD SIDE OF ADJACENT GFI RECEPTACLE TO PROVIDE GFI PROTECTION FOR DRINKING FOUNTAIN RECEPTACLE.
6	KITCHEN EQUIPMENT TAG. REFERENCE FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
7	ROUTE CIRCUIT THROUGH CONTACTOR FOR SHUT-DOWN BY HOOD CONTROL PANEL. SEE DETAIL 3:E1.7.
8	NATURAL GAS SOLENOID VALVE FOR EQUIPMENT UNDER HOOD. CONNECT TO HOOD CONTROL PANEL.
9	HOOD CONTROL PANEL FURNISHED WITH HOOD. PROVIDE ALL FIELD WIRING CONNECTIONS TO HOOD LIGHTS, GAS SOLENOID, FIRE SUPPRESSION SYSTEM CABINET, HOOD FAN AND LIGHT SWITCHES, HOOD TEMP SENSOR, EXHAUST FAN CONTROL, MAKE-UP AIR UNIT CONTROL, AND EQUIPMENT SHUT-DOWN CONTACTORS. VERIFY REQUIREMENTS WITH HOOD INSTALLER. SEE SHEET M5.2 FOR MORE INFORMATION.
10	PROVIDE ROUGH-IN FOR HOOD FIRE SUPPRESSION PULL STATION, SEE DETAIL 2:E1.7.
11	TELECOMMUNICATIONS GROUND BAR SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA14L06PT OR EQUAL. MOUNT AT 18" AFF. PROVIDE #6 GROUND TO GROUND BUS OF PANEL 'P1'. ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS.



1 E1.7 1ST FLOOR POWER PLAN
3/16" = 1'-0"

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101 N. SANTA FE AVE.
REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

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2025.03.20 16:50:49-05'00'

REVISIONS:

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JOB: 24-3421
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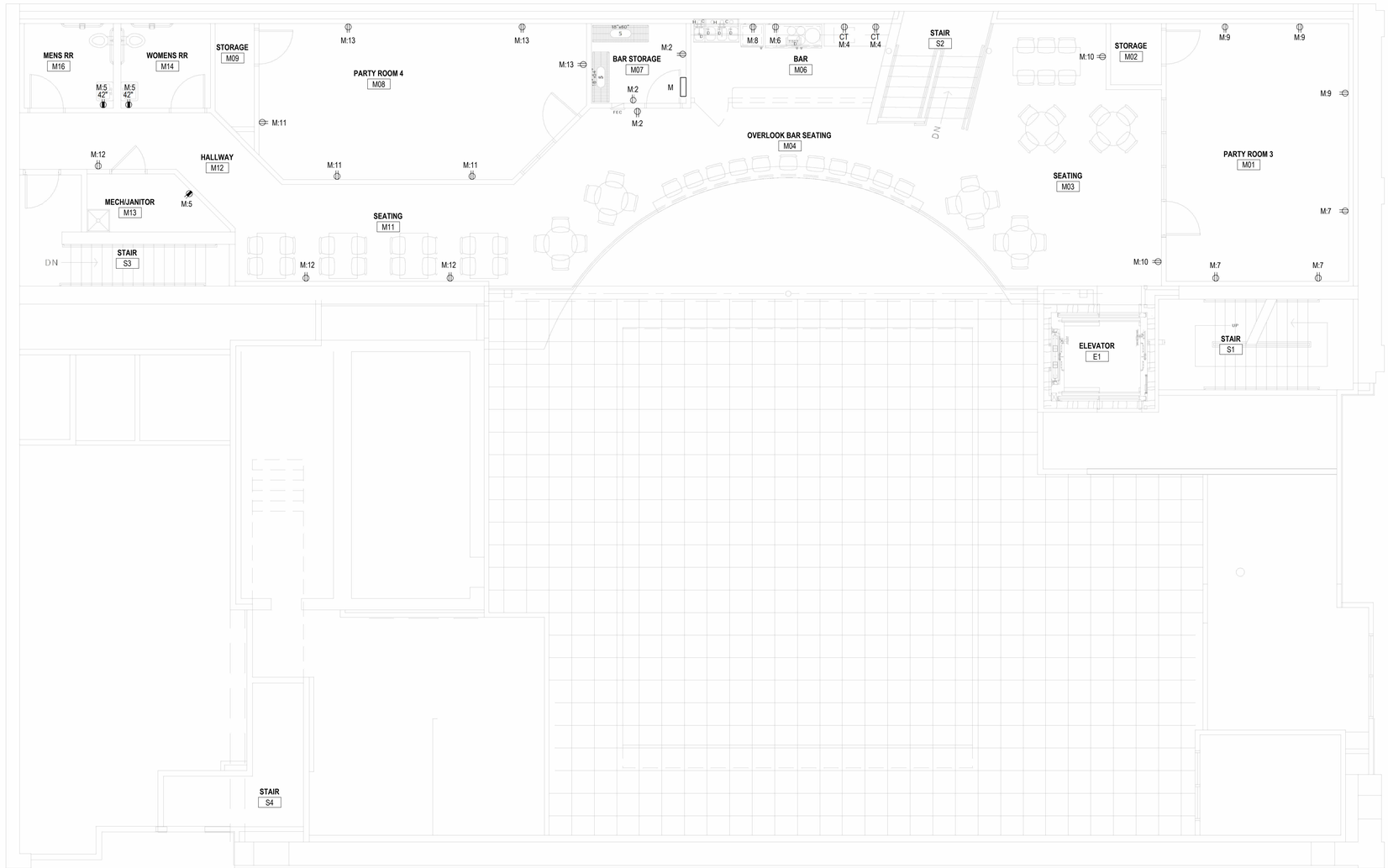
NOTES BY SYMBOL



1 E1.8 MEZZANINE POWER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

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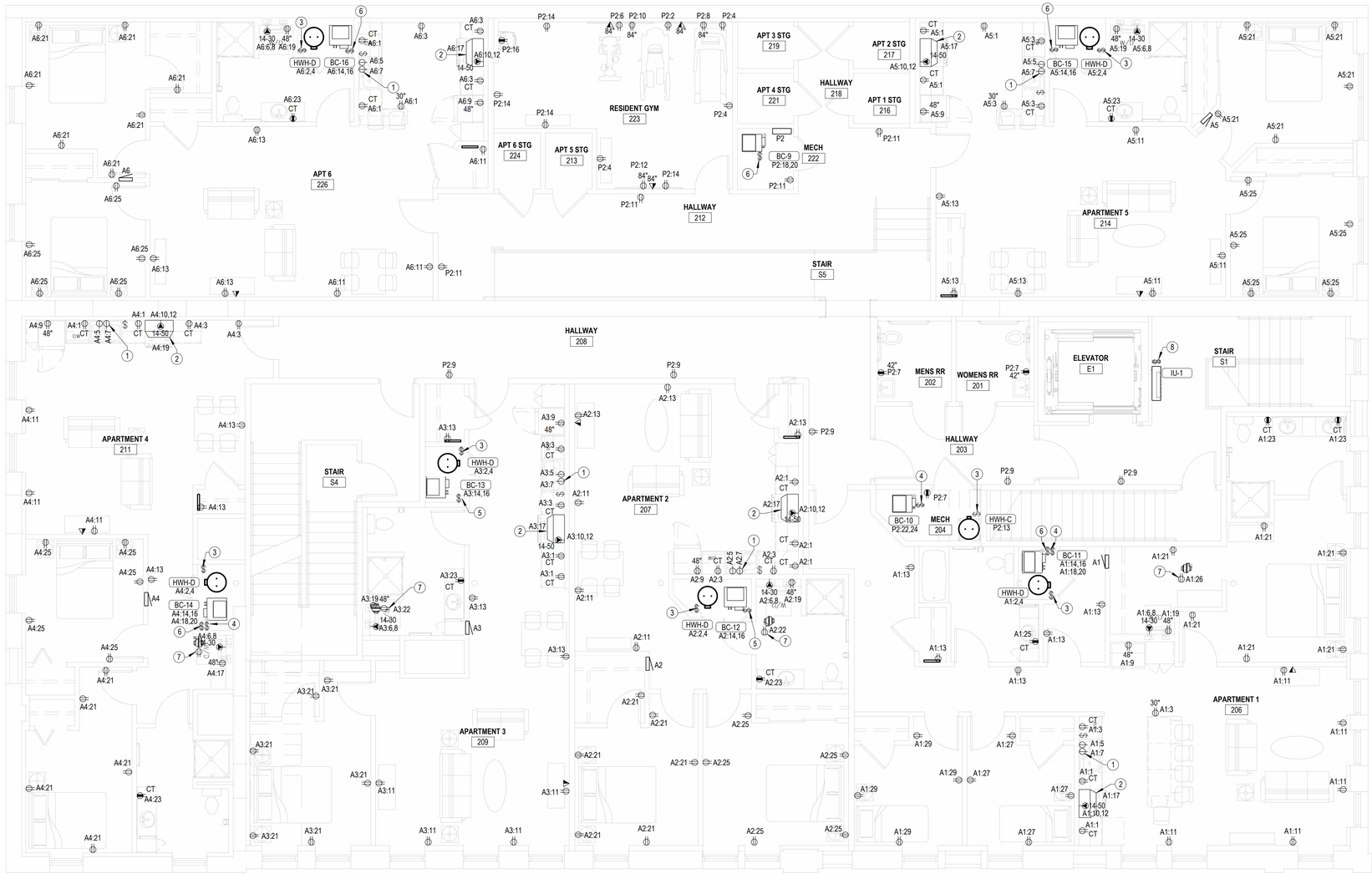
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1. SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
2. PROVIDE 120V CONNECTION TO MICROWAVE ABOVE RANGE. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
3. PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
4. PROVIDE 30A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7832D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
5. PROVIDE 50A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7852D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
6. PROVIDE 60A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7862D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
7. PROVIDE RECEPTACLE ABOVE CEILING FOR CORD AND PLUG CONNECTION OF DRYER BOOSTER FAN. ENSURE RECEPTACLE IS ACCESSIBLE THROUGH CEILING ACCESS PANEL. COORDINATE WITH G.C. AND OTHER TRADES.
8. INDOOR UNIT POWERED FROM OUTDOOR UNIT. PROVIDE 20A-3P MOTOR RATED SNAP SWITCH AND ROUTE (3)#12, #12G., 1/2"C. BETWEEN INDOOR AND OUTDOOR UNIT ON ROOF.



1 E1.9 2ND FLOOR POWER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

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JOHN F. LEWIS SMITH 14654 PROFESSIONAL ENGINEER

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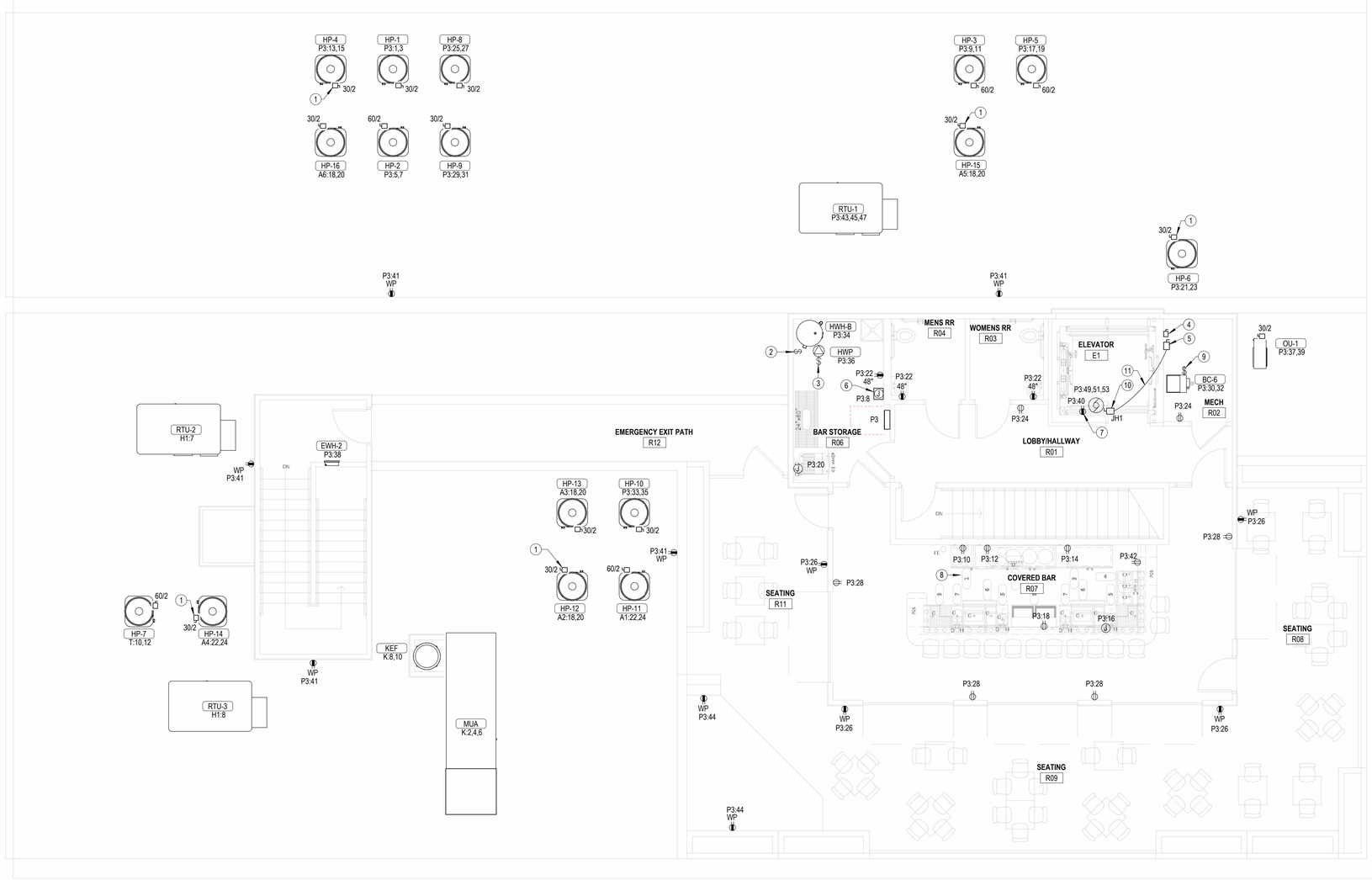
NOTES BY SYMBOL

1	PROVIDE NON-FUSED DISCONNECT SWITCH, SIZED AS INDICATED ON PLANS, IN NEMA 3R ENCLOSURE AND MAKE FINAL CONNECTION TO EQUIPMENT IN LFMC RACEWAY. MOUNT TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS.
2	PROVIDE 20A/1P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
3	ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
4	30A DISCONNECT SWITCH, LOCKABLE IN "OFF" POSITION, WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CORRESPONDING ELEVATOR CAR NUMBER AND CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER.
5	ELEVATOR POWER MODULE SWITCH: 60A/208V/3P SWITCH COMPLETE WITH 60A DUAL ELEMENT, TIME DELAY CLASS 'J' FUSES, 120V CONTROL TRANSFORMER, FIRE ALARM SAFETY INTERFACE RELAY, KEY TEST SWITCH, GREEN PILOT LIGHT, AUXILIARY CONTACTS FOR ELEVATOR RECALL, AND FIRE ALARM VOLTAGE MONITORING RELAY. EATON BUSSMAN #PS-6-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER, AND PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER.
6	PROVIDE POWER CONNECTION TO LIGHTING INVERTER.
7	INSTALL RECEPTACLE ON WALL OF ELEVATOR HOIST WAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER.
8	KITCHEN EQUIPMENT TAG. REFERENCE FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
9	PROVIDE 50A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7852D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
10	60A/3P NON-FUSED DISCONNECT SWITCH (JH1) IN NEMA 1 ENCLOSURE. PROVIDE WITH SPST AUXILIARY CONTACTS RATED FOR MIN. 2A AT 24VDC. MAKE FINAL CONNECTION TO ELEVATOR FUSE BOX. COORDINATE MOUNTING LOCATION AT TOP OF HOISTWAY AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
11	3-PHASE POWER FEEDER AND (2) #18 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO 'JH1' DISCONNECT SWITCH.



1 E1.10 ROOF POWER PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND,
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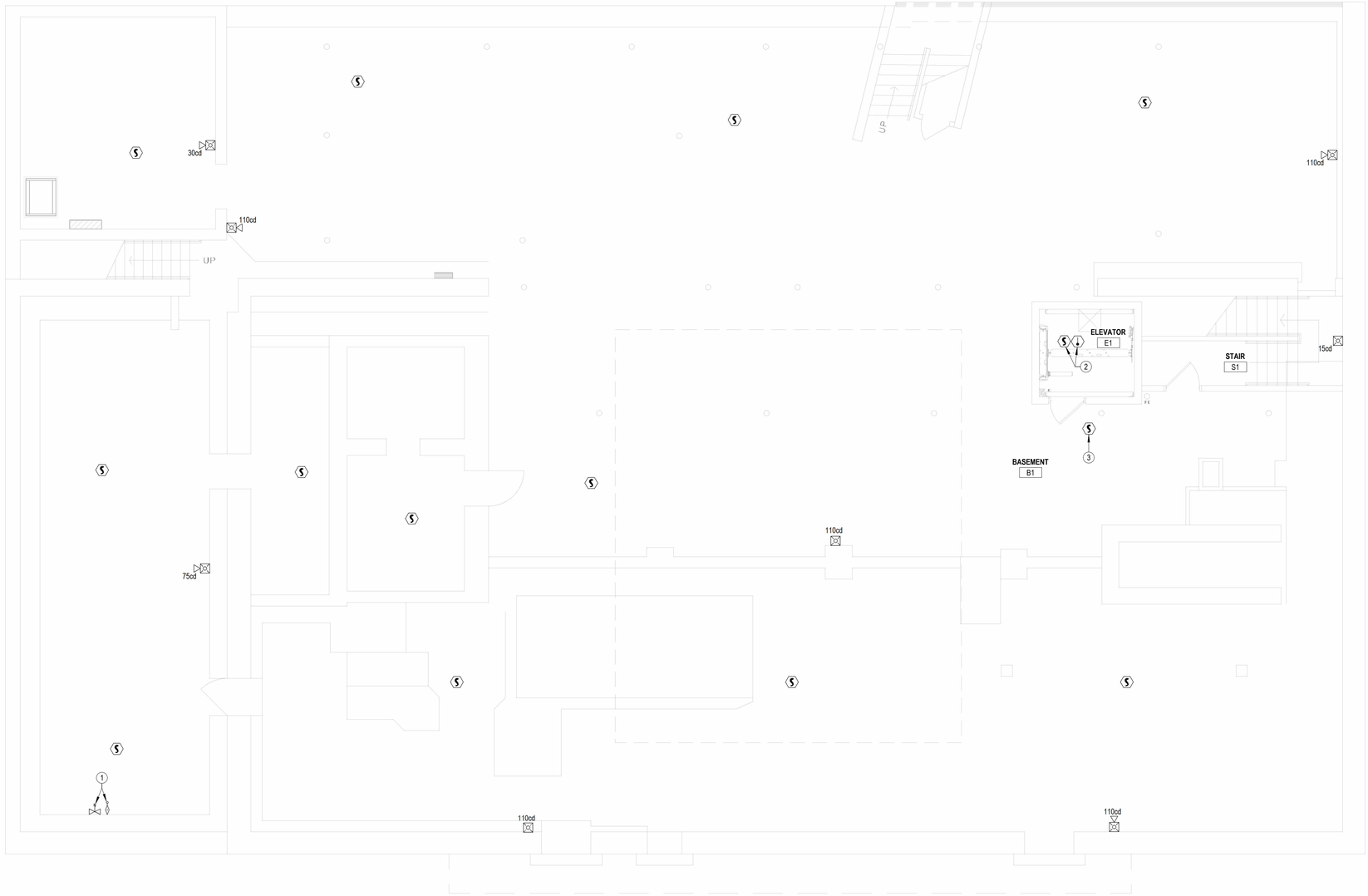
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1	PROVIDE ADDRESSABLE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, TAMPER SWITCHES AND BELL/GONG. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.
2	SMOKE DETECTOR AND HEAT DETECTOR IN ELEVATOR PIT FOR RECALL AND SHUT-DOWN. SEE DETAIL 2, SHEET E1.15.
3	ELEVATOR LOBBY SMOKE DETECTOR FOR ELEVATOR RECALL. SEE DETAIL 2, SHEET E1.15.



1 / E1.11 BASEMENT SPECIAL SYSTEMS PLAN
3/16" = 1'-0"

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JOHN T. LEWIS SMITH
14654
PROFESSIONAL ENGINEER
KANSAS

NOT FOR CONSTRUCTION

2025.03.20 16:52:13-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

E1.11

LST Consulting Engineers, PA
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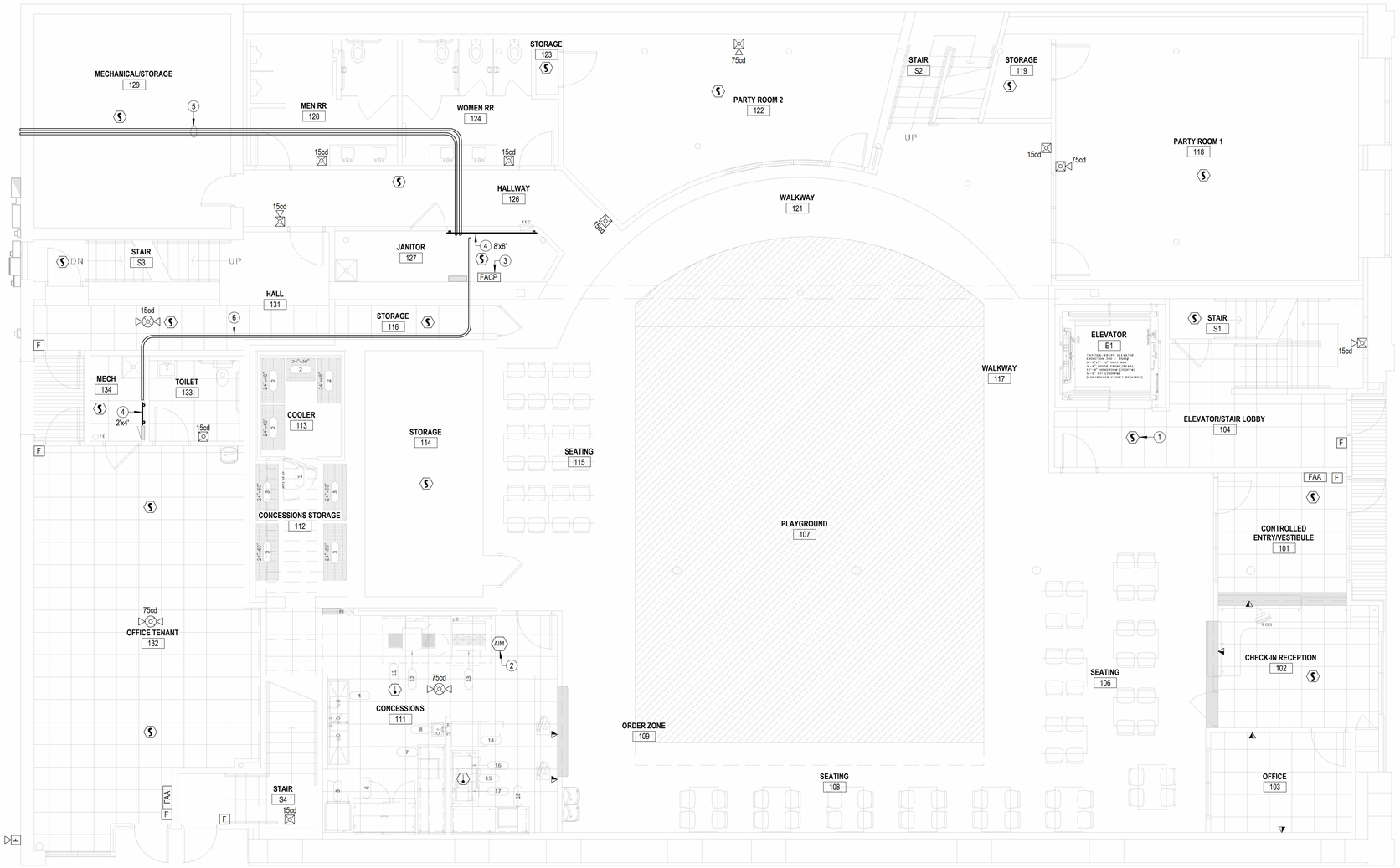
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1. ELEVATOR LOBBY SMOKE DETECTOR FOR ELEVATOR RECALL. SEE DETAIL 2, SHEET E1.15.
2. PROVIDE ADDRESSABLE MONITORING MODULE TO MONITOR STATUS OF HOOD FIRE SUPPRESSION SYSTEM. COORDINATE LOCATION AND REQUIREMENTS WITH HOOD INSTALLER.
3. PROVIDE (2) CAT 5e UTP, NEC TYPE 'CMP' CABLES (SUPERIOR ESSEX #51-241-48 OR EQUAL) IN 3/4" CONDUIT FROM FACP TO MAIN TELECOM TERMINAL BOARD FOR CONNECTION TO FA SYSTEM DACT FOR REMOTE MONITORING.
4. PROVIDE TELECOMMUNICATIONS TERMINAL BOARD OF WIDTH x HEIGHT NOTED, CONSISTING OF 3/4" ACX FIRE RETARDANT PLYWOOD PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
5. (2) 2" EMT CONDUITS WITH PULL STRINGS ROUTED OVERHEAD FROM MAIN TELECOM BACKBOARD TO ALLEY FOR COMMUNICATIONS ACCESS PROVIDER SERVICE CABLING. TERMINATE AT EXTERIOR ALLEY WALL WITH WEATHERHEADS OR NEMA 3R ENCLOSURE. PROVIDE PULL STRING IN EACH RACEWAY. SEAL PENETRATIONS THROUGH EXTERIOR WALL WEATHERTIGHT.
6. (1) 2" EMT CONDUIT WITH PULL STRING CONCEALED ABOVE CEILING FROM MAIN TELECOM BOARD IN JANITOR 127 TO TENANT TELECOM BOARD IN MECH 134 FOR COMMUNICATIONS SERVICE CABLING.



1 E1.12 1ST FLOOR SPECIAL SYSTEMS PLAN
3/16" = 1'-0"

JGR JonesGillamRenz
730 N. Ninth
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101 N. SANTA FE AVE.

REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN L. LEWIS 14654 REGISTERED ARCHITECT PROFESSIONAL ENGINEER

2025.03.20 16:52:37-05'00'

REVISIONS:

DATE: 3/20/2025
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E1.12

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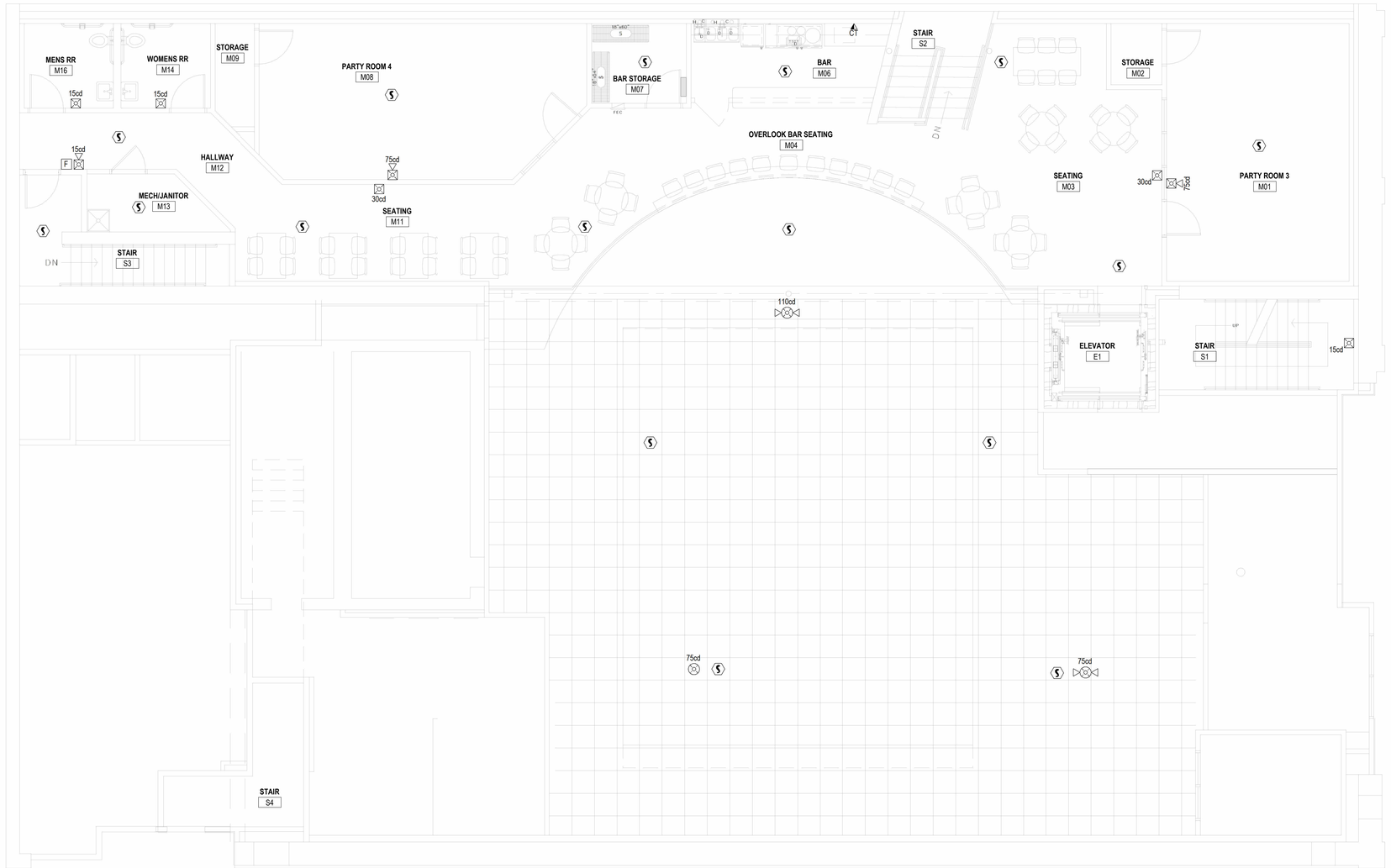
Project 24058 3/20/2025

NOTES BY SYMBOL



1 E1.13 MEZZANINE SPECIAL SYSTEMS PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND,
APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

JOHN E. LEWIS
COMMERCIAL
14654
KANSAS
PROFESSIONAL ENGINEER

2025.03.20 16:52:57-05'00'

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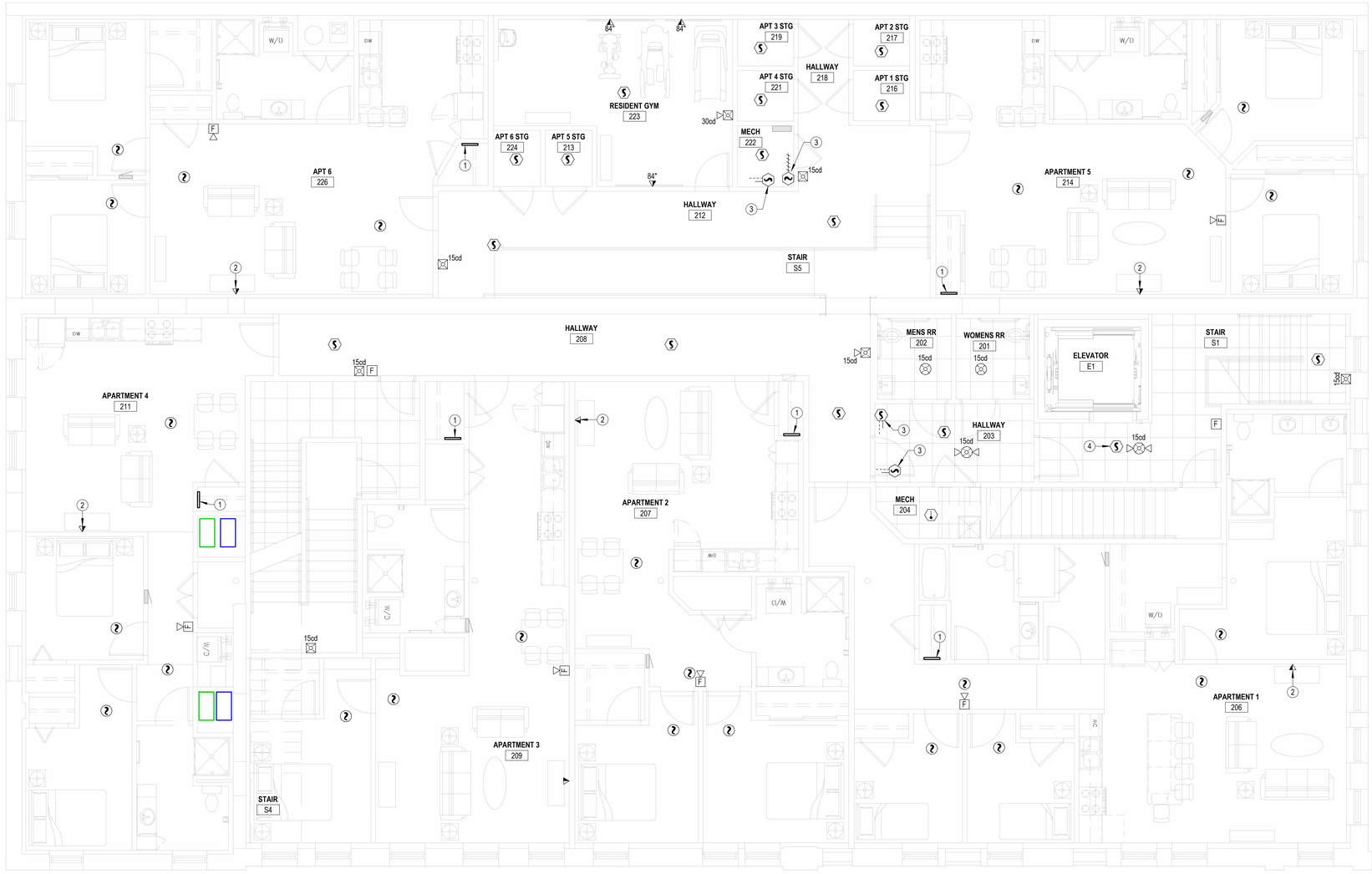
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1. PROVIDE FLUSH MOUNTED TELECOM DISTRIBUTION DEVICE AT APPROXIMATELY 4'-0" AFF. COORDINATE EXACT SIZE AND REQUIREMENTS WITH COMMUNICATIONS UTILITY PROVIDER SELECTED BY OWNER. PROVIDE 1-1/2" CONDUIT WITH (1) CAT6 UTP CABLE AND (1) RG6 COAX CABLE FROM DISTRIBUTION DEVICE TO MAIN TELECOM BOARD IN ROOM 127.
2. COORDINATE FINAL LOCATIONS OF ALL TELECOM OUTLETS WITH OWNER. PROVIDE (1) CAT 6 UTP AND (1) RG6 COAX CABLE HOMERUN FROM EACH OUTLET TO APARTMENT UNIT'S TELECOM DISTRIBUTION DEVICE.
3. PROVIDE DUCT SMOKE DETECTOR WITHIN 5' OF SMOKE DAMPER AND WIRE TO FIRE ALARM CONTROL PANEL. PROVIDE FIRE ALARM RELAY FOR CONTROL OF 120V POWER TO DAMPER ACTUATOR. DAMPER SHALL CLOSE UPON DETECTION OF SMOKE.
4. ELEVATOR LOBBY SMOKE DETECTOR FOR ELEVATOR RECALL. SEE DETAIL 2, SHEET E1.15.



1 E1.14 2ND FLOOR SPECIAL SYSTEMS PLAN
3/16" = 1'-0"

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

JOHN F. LEWIS 14654 REGISTERED PROFESSIONAL ENGINEER

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2025.03.20 16:53:18-05'00'

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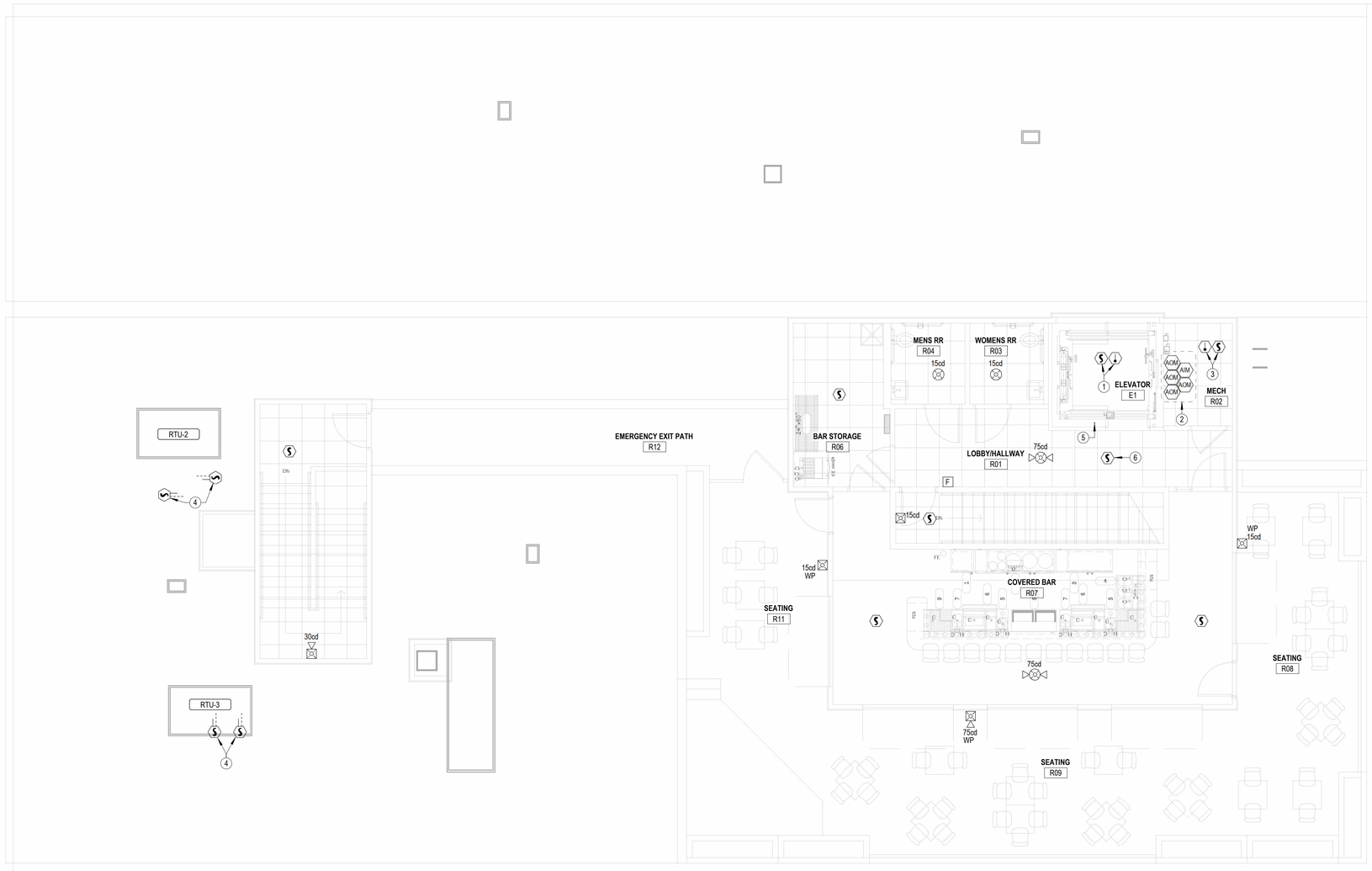
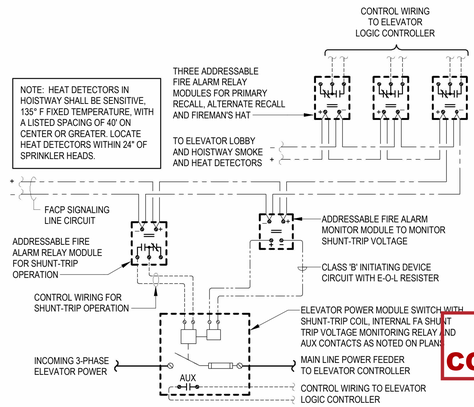
Project 24058 **3/20/2025**

NOTES BY SYMBOL

1	SMOKE DETECTOR AND HEAT DETECTOR AT TOP OF ELEVATOR HOIST WAY FOR RECALL AND SHUT-DOWN. SEE DETAIL 2, SHEET E1.15.
2	ADDRESSABLE FIRE ALARM RELAYS FOR ELEVATOR RECALL, FIREMAN'S HAT, AND POWER SHUNT-TRIP, AND ADDRESSABLE MONITORING MODULE FOR MONITORING OF SHUNT TRIP VOLTAGE. SEE DETAIL 2, SHEET E1.15.
3	SMOKE AND HEAT DETECTORS FOR ELEVATOR RECALL AND SHUT-DOWN. SEE DETAIL 2, SHEET E1.15.
4	SUPPLY AND RETURN AIR DUCT SMOKE DETECTORS FOR HVAC EQUIPMENT FURNISHED AND WIRED TO FACP BY FIRE ALARM CONTRACTOR, INSTALLED IN DUCT BY MECHANICAL CONTRACTOR. PROVIDE ADDRESSABLE FIRE ALARM RELAY WITHIN 5' OF EQUIPMENT FOR SHUT-DOWN OF HVAC UNIT UPON DETECTION OF SMOKE.
5	PROVIDE 4-PAIR, CAT5e UTP, NEC TYPE 'CMP' CABLE (SUPERIOR ESSEX #51-241-48 OR EQUAL) IN 3/4" CONDUIT FROM TOP OF ELEVATOR CONTROLLER TO TELECOM TERMINAL BOARD IN JANITOR 127 FOR EMERGENCY ELEVATOR CAB TELEPHONE.
6	ELEVATOR LOBBY SMOKE DETECTOR FOR ELEVATOR RECALL. SEE DETAIL 2, SHEET E1.15.



1 E1.15 ROOF SPECIAL SYSTEMS PLAN
3/16" = 1'-0"



ELEVATOR RECALL AND SHUT-DOWN SEQUENCE OF OPERATION:

1. UPON SENSING SMOKE FROM ONE OR MORE ELEVATOR LOBBY OR HOISTWAY, THE SMOKE DETECTOR SHALL SIGNAL THE FIRE ALARM CONTROL PANEL, WHICH WILL FORWARD THE SIGNAL TO THE ELEVATOR LOGIC CONTROLLER VIA ADDRESSABLE RELAY MODULES TO RECALL ELEVATOR CAB TO THE PRIMARY RECALL FLOOR. IF PRIMARY RECALL FLOOR'S LOBBY SMOKE DETECTOR SENSES SMOKE AT THAT FLOOR, THE ELEVATOR CONTROLLER WILL SEND THE ELEVATOR CAB TO THE NEXT FLOOR CLEAR OF SMOKE. ONCE THE ELEVATOR CAB HAS REACHED THE DESIGNATED FLOOR, THE ELEVATOR CAB DOORS WILL OPEN AND THE CONTROLLER WILL LOCK THE ELEVATOR CAB AT THAT FLOOR, DISABLING THE ELEVATOR CAB CONTROLS, UNLESS A FIREMAN'S KEY IS USED TO OVERRIDE AUTOMATIC CONTROLS.
2. ALL SMOKE DETECTORS ASSOCIATED WITH ELEVATOR RECALL (LOBBY AND HOISTWAY) SHALL TRANSMIT A SEPARATE AND DISTINCT VISIBLE ANNUNCIATION AT THE FIRE ALARM CONTROL PANEL.
3. UPON SENSING A HEAT ALARM CONDITION IN THE ELEVATOR HOISTWAY, THE HEAT DETECTOR SHALL SIGNAL THE FIRE ALARM CONTROL PANEL, WHICH WILL FORWARD THE SIGNAL TO THE ADDRESSABLE RELAY MODULE TO ACTIVATE THE SHUNT-TRIP SWITCH POWERING THE ELEVATOR SO AS TO DISCONNECT POWER TO THAT CIRCUIT. THIS IS TO BE A NON-AUTO RESET SWITCH. WHEN THE SPRINKLER HEAD HAS REACHED ITS CRITICAL TEMPERATURE OF 165° F., THE HEAD WILL BEGIN DISCHARGE OF WATER.

2 E1.15 ELEVATOR RECALL AND SHUT-DOWN WIRING DIAGRAM
NO SCALE

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

LEWIS C. SMITH 14654 REGISTERED PROFESSIONAL ENGINEER KANSAS

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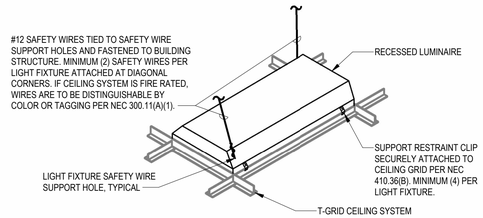
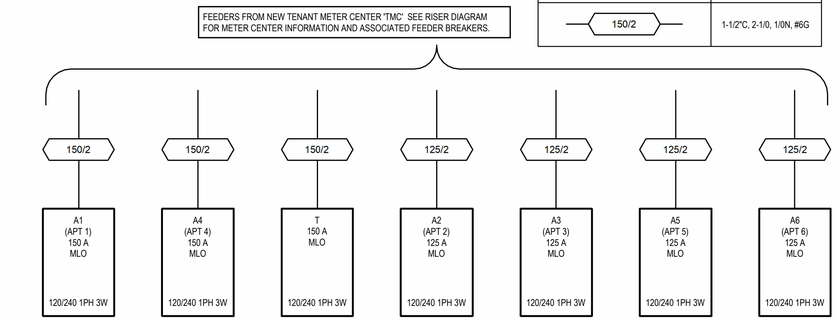


NOTES:
1. SAFETY WIRES SHALL HAVE A MINIMUM OF 3 TIGHT TURNS AROUND SELF.
2. FIXTURE INSTALLATION TO COMPLY WITH ASTM C636 AND CISCA STANDARDS.

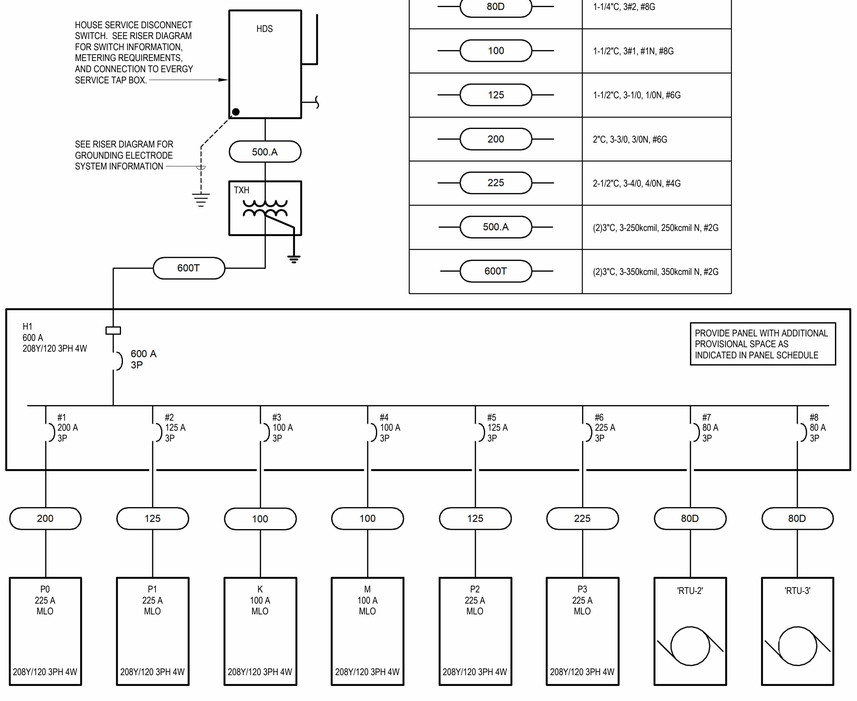
3 / E6.1 RECESSED LUMINAIRE SUPPORT
NO SCALE

FEEDER SCHEDULE	
125/2	1-1/2"C, 2-1/0, 1/0N, #6G
150/2	1-1/2"C, 2-1/0, 1/0N, #6G

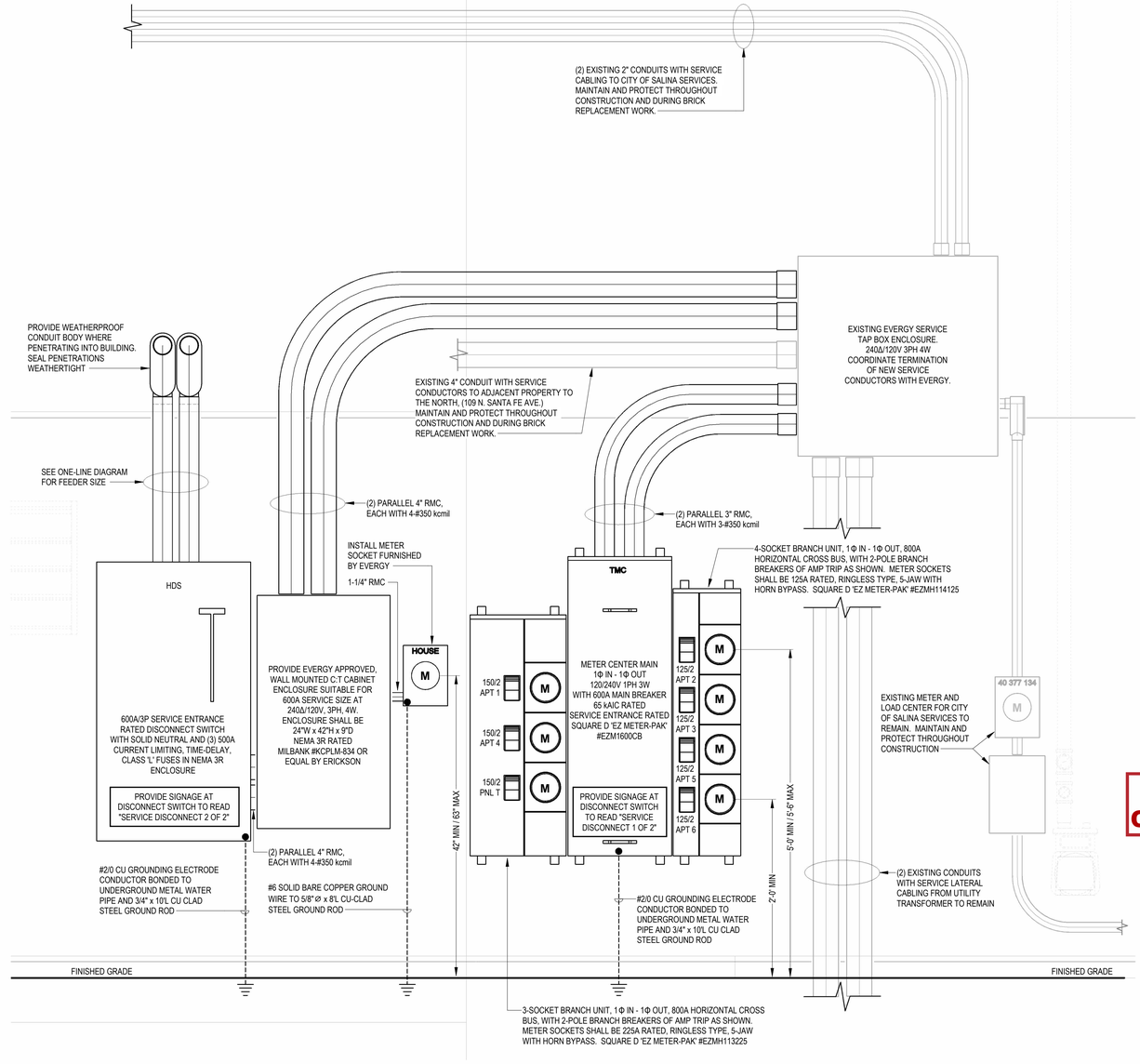


4 / E6.1 ONE-LINE DIAGRAM - METER CENTER
NO SCALE

FEEDER SCHEDULE	
80D	1-1/4"C, 3#2, #8G
100	1-1/2"C, 3#1, #1N, #8G
125	1-1/2"C, 3-1/0, 1/0N, #6G
200	2"C, 3-3/0, 3/0N, #6G
225	2-1/2"C, 3-4/0, 4/0N, #4G
500.A	(2)3"C, 3-250kcmil, 250kcmil N, #2G
600T	(2)3"C, 3-350kcmil, 350kcmil N, #2G



2 / E6.1 ONE-LINE DIAGRAM - HOUSE SERVICE
NO SCALE



1 / E6.1 POWER SERVICE RISER DIAGRAM
NO SCALE

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Project 24058 — 3/20/2025

Panelboard: H1

Location: BASEMENT
Supply: TXH
Mounting: Surface
Enclosure: NEMA 1
Features & Modifications: -

Voltage: 208 V, 3 Ø, 4 W
Bus Rating: 600 A
Neutral: 100%
Mains Type: MCB
Mains Rating: 600 A
Mains FN/Note: -
SCCR: 10 kA

Ckt	Description	Frame (A)	Trip (A)	Poles	FN/Note	Load
H1:1	PANEL 'P0'	225	200	3		56422
H1:2	PANEL 'P1'	225	125	3		22499
H1:3	PANEL 'K'	100	100	3		24606
H1:4	PANEL 'M'	100	100	3		6504
H1:5	PANEL 'P2'	225	125	3		19859
H1:6	PANEL 'P3'	225	225	3		73048
H1:7	RTU-2	80	80	3	HR	16338
H1:8	RTU-3	80	80	3	HR	20520
H1:9	225A PROVISIONAL SPACE	--	--	1		--
H1:10	225A PROVISIONAL SPACE	--	--	1		--
H1:11	100A PROVISIONAL SPACE	--	--	1		--
H1:12	100A PROVISIONAL SPACE	--	--	1		--

Breaker Function Schedule

#	For any number, see panel schedule footer note
A	Arc-Fault Interrupter (AFCI) Protection
EM	Provide identification per NEC 700.12(I)(2)(4)
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
GA	Combination Arc-Fault Interrupter (AFCI) and Ground-Fault Circuit Interrupter, 5mA, (GFCI) Protection
GE	Ground-Fault Protection for Equipment (30 mA)
GF	Adjustable Ground-Fault Protection for Equipment
H	Breaker hasp to prevent unintentional opening
HR	'HACR' rated breaker.
L	Lockable open according to NEC 110.25
S	Switch-rated per NEC 240.83(D)

Designation: K

Installed Location:
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 100
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
K:1	LTG - Kitchen	1/2"C,1#12,#12N,#12G	20		26... 27...							K:2
K:3	RCPT - POS	1/2"C,1#12,#12N,#12G	20	G		36... 27...		HR	30	1/2"C,3#10,#10G	Make Up Air Unit - MUA	K:4
K:5	RCPT - Kitchen	1/2"C,1#12,#12N,#12G	20	G			36... 27...					K:6
K:7	Heated Cabinet - Item 5	1/2"C,1#10,#10N,#10G	30	G	20... 91...				20	1/2"C,2#12,#12G	Exhaust Fan - KEF	K:8
K:9	Pizza Prep Refrigerator - Item 6	1/2"C,1#12,#12N,#12G	20	G		54... 91...						K:10
K:11	Conveyor Oven - Item 12	1/2"C,2#8,#10G	40	G			32... 14...	G	20	1/2"C,1#12,#12N,#12G	Kitchen Exhaust Hood Controls	K:12
K:13					32... 13...				20	1/2"C,1#12,#12N,#12G	Walk-In Cooler Refrigeration - Item 1A	K:14
K:15	Refrigerated Merchandiser - Item 14	1/2"C,1#12,#12N,#12G	20	G		24... 72...			20	1/2"C,1#12,#12N,#12G	Walk-In Cooler Lights and Accessories - Item 1B	K:16
K:17	Popcorn Popper - Item 16	1/2"C,1#12,#12N,#12G	20	G			13... 0 VA		20	--	Spare	K:18
K:19	Hot Dog Steamer - Item 17	1/2"C,1#12,#12N,#12G	20	G	78... 0 VA				20	--	Spare	K:20
K:21	Gas Solenoid Valve	1/2"C,1#12,#12N,#12G	20	G		20... --			--	--	Space	K:22
K:23	Hood Equipment Shutdown	1/2"C,1#12,#12N,#12G	20	G			0 VA --		--	--	Space	K:24
K:25	Space	--	--		-- --				--	--	Space	K:26
K:27	Space	--	--			-- --			--	--	Space	K:28
K:29	Space	--	--				-- --		--	--	Space	K:30
			Connected Load:		11277 VA	5495 VA	7834 VA					
			Connected Amps:		97 A	46 A	68 A					

Designation: P3

Installed Location:
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
P3:1	Heat Pump - 'HP-1'	1/2"C,2#10,#10G	25	HR	12... 73...				20	1/2"C,1#12,#12N,#12G	LTG - Roof Bar/Halls	P3:2
P3:3						12... 13...			20	1/2"C,1#12,#12N,#12G	LTG/EXH - RR R03/R04	P3:4
P3:5	Heat Pump - 'HP-2'	1/2"C,2#8,#10G	40	HR			12... 27...		20	1/2"C,1#12,#12N,#12G	LTG - Exterior Roof	P3:6
P3:7					12... 17...				20	1/2"C,1#12,#12N,#12G	Exterior Lighting Inverter	P3:8
P3:9	Heat Pump - 'HP-3'	3/4"C,2#6,#10G	50	HR		12... 20...		G	20	1/2"C,1#12,#12N,#12G	Refrigerator - Item 1	P3:10
P3:11							12... 32...	G	20	1/2"C,1#12,#12N,#12G	Beer Cooler - Item 2	P3:12
P3:13	Heat Pump - 'HP-4'	1/2"C,2#10,#10G	30	HR	12... 26...			G	20	1/2"C,1#12,#12N,#12G	Refrigerator - Item 3	P3:14
P3:15						12... 15...		G	20	1/2"C,1#12,#12N,#12G	Blender Station - Item 5	P3:16
P3:17	Heat Pump - 'HP-5'	1/2"C,2#8,#10G	40	HR			12... 18...	G	20	1/2"C,1#12,#12N,#12G	Bottle Cooler - Item 8	P3:18
P3:19					12... 21...			G	30	1/2"C,1#10,#10N,#10G	Ice Maker - Item 11	P3:20
P3:21	Heat Pump - 'HP-6'	1/2"C,2#10,#10G	25	HR		12... 54...			20	1/2"C,1#12,#12N,#12G	RCPT - R03-R06 Tlts/Bar Storage	P3:22
P3:23							12... 36...		20	1/2"C,1#12,#12N,#12G	RCPT - R01,R02 Hall/Mech	P3:24
P3:25	Heat Pump - 'HP-8'	1/2"C,2#10,#10G	25	HR	12... 72...				20	1/2"C,1#12,#12N,#12G	RCPT - Roof Patio	P3:26
P3:27						12... 72...			20	1/2"C,1#12,#12N,#12G	RCPT - Covered Bar	P3:28
P3:29	Heat Pump - 'HP-9'	1/2"C,2#10,#10G	25	HR			12... 40...		50	3/4"C,2#6,#10G	Blower Coil - 'BC-6'	P3:30
P3:31					12... 40...						Electric Heat	P3:32
P3:33	Heat Pump - 'HP-10'	1/2"C,2#10,#10G	25	HR		12... 18...			20	1/2"C,1#12,#12N,#12G	Water Heater - 'HWH-B'	P3:34
P3:35							12... 48...		20	1/2"C,1#12,#12N,#12G	Recirculation Pump 'HWP'	P3:36
P3:37	Heat Pump - 'OU-1'	1/2"C,2#12,#12G	15	HR	11... 15...				20	1/2"C,1#12,#12N,#12G	Electric Wall Heater 'EWH-B' - Stair S4	P3:38
P3:39						11... 18...			20	1/2"C,1#12,#12N,#12G	RCPT - Elevator Hoistway	P3:40
P3:41	RCPT - Rooftop Maintenance	1/2"C,1#12,#12N,#12G	20				90... 18...	G	20	1/2"C,1#12,#12N,#12G	RCPT - Rooftop Bar P.O.S.	P3:42
P3:43	RTU-1	3/4"C,3#6,#10G	50	HR	40... 36...				20	1/2"C,1#12,#12N,#12G	RCPT - Roof Stage	P3:44
P3:45						40... 12...			20	1/2"C,1#12,#12N,#12G	LTG - Future Building Sign	P3:46
P3:47							40... --		--	--	Space	P3:48
P3:49	Elevator	1"C,3#4,#10G	60		51... --				--	--	Space	P3:50
P3:51						51... --			--	--	Space	P3:52
P3:53							51... --		--	--	Space	P3:54
			Connected Load:		27646 VA	22520 VA	22882 VA					
			Connected Amps:		231 A	188 A	191 A					

Designation: T

Installed Location:
Voltage: 120/240 1PH 3W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 150
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC:
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
T:1	LTG - Tenant 132	1/2"C,1#12,#12N,#12G	20		604... 562...			60	3/4"C,2#4,#10G	Blower Coil 'BC-7' Fan/Electric Heat Circuit 1	T:2
T:3	RCPT - East	1/2"C,1#12,#12N,#12G	20			540... 562...					T:4
T:5	RCPT - SE	1/2"C,1#12,#12N,#12G	20		360... 240...			25	1/2"C,2#10,#10G	Blower Coil 'BC-7' Electric Heat Circuit 2	T:6
T:7	RCPT - Tlt/Jan	1/2"C,1#12,#12N,#12G	20			360... 240...					T:8
T:9	RCPT - West	1/2"C,1#12,#12N,#12G	20		540... 141...		HR	40	1/2"C,2#8,#10G	Heat Pump 'HP-7'	T:10
T:11	Electric Water Cooler	1/2"C,1#12,#12N,#12G	20			180... 141...					T:12
T:13	Water Heater	1/2"C,1#12,#12N,#12G	20		150... 0 VA			20	--	Spare	T:14
T:15	RCPT - Show Window	1/2"C,1#12,#12N,#12G	20			140... 500...	H	20	1/2"C,1#12,#12N,#12G	RCPT - Telecom Board	T:16
T:17	Spare	--	20		0 VA 0 VA			20	--	Spare	T:18
T:19	Spare	--	20			0 VA 0 VA		20	--	Spare	T:20
T:21	Space	--	--		-- --			--	--	Space	T:22
T:23	Space	--	--			-- --		--	--	Space	T:24
T:25	Space	--	--		-- --			--	--	Space	T:26
T:27	Space	--	--			-- --		--	--	Space	T:28
T:29	Space	--	--		-- --			--	--	Space	T:30
		Connected Load:			12442 VA	12418 VA					
		Connected Amps:			104 A	103 A					

DRY-TYPE TRANSFORMER SCHEDULE

TAG	KVA SIZE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	PHASE	GROUNDING ELECTRODE CONDUCTOR SIZE	EQUIPMENT SERVED	REMARKS
TXH	225	240 V	208Y/120 3PH 4W	3	#2/0	Panel 'H1'	1

GENERAL:
- MAXIMUM LENGTH OF SECONDARY CONDUCTORS SHALL NOT EXCEED 25'-0" PER NEC 240.21(C)(6).
- BOND GROUNDING ELECTRODE TO NEAREST AVAILABLE GROUNDING ELECTRODE PER NEC 250.30(A)(7).

REMARKS:
1. PROVIDE 3-1/2" HIGH CONCRETE HOUSEKEEPING PAD.

Designation: P0

Installed Location:
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
P0:1	Blower Coil - 'BC-1'	3/4"C,2#6,#10G	50		40... 43...				60	3/4"C,2#4,#10G	Blower Coil - 'BC-3' Blower / Electric Heat Circuit 1	P0:2
P0:3	Electric Heat					40... 43...						P0:4
P0:5	Blower Coil - 'BC-2' Blower / Electric Heat Circuit 1	3/4"C,2#4,#10G	60				38... 18...		25	1/2"C,2#10,#10G	Blower Coil - 'BC-3' Electric Heat Circuit 2	P0:6
P0:7					38... 18...							P0:8
P0:9	Blower Coil - 'BC-2' Electric Heat Circuit 2	1/2"C,2#10,#10G	25			18... 43...			60	3/4"C,2#4,#10G	Blower Coil - 'BC-5' Electric Heat	P0:10
P0:11							18... 43...					P0:12
P0:13	Blower Coil - 'BC-4' Blower / Electric Heat Circuit 1	3/4"C,2#6,#10G	50		38... 41...				15	1/2"C,2#12,#12G	Blower Coil - 'BC-8' Blower	P0:14
P0:15						38... 41...						P0:16
P0:17	Blower Coil - 'BC-4' Electric Heat Circuit 2	1/2"C,2#10,#10G	25				18... 18...		20	1/2"C,1#12,#12N,#12G	Receptacle - Elevator Pit	P0:18
P0:19					18... 11...			H	20	1/2"C,1#12,#12N,#12G	Elevator Sump Pump	P0:20
P0:21	Receptacle - Basement	1/2"C,1#12,#12N,#12G	20			90... 15...		H	20	1/2"C,1#12,#12N,#12G	Elevator Sump Pump Control Panel	P0:22
P0:23	Lighting - Basement	1/2"C,1#12,#12N,#12G	20				13... 0 VA		20	--	Spare	P0:24
P0:25	Space	--	--		-- --				--	--	Space	P0:26
P0:27	Space	--	--			-- --			--	--	Space	P0:28
P0:29	Space	--	--				-- --		--	--	Space	P0:30
			Connected Load:		21312 VA	19916 VA	15194 VA					
			Connected Amps:		184 A	172 A	127 A					

Designation: P1

Installed Location:
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
P1:1	LTG - SE 1st Floor	1/2"C,1#12,#12N,#12G	20		76... 54...				20	1/2"C,1#12,#12N,#12G	RCPT - 102, 104Entry/Elev Lobby	P1:2
P1:3	LTG - NW 1st Floor	1/2"C,1#12,#12N,#12G	20			17... 36...			20	1/2"C,1#12,#12N,#12G	RCPT - 102 Check-in	P1:4
P1:5	LTG - NE 1st Floor	1/2"C,1#12,#12N,#12G	20				66... 72...		20	1/2"C,1#12,#12N,#12G	RCPT - 102 Check-in	P1:6
P1:7	LTG - Playground	1/2"C,1#12,#12N,#12G	20		17... 72...				20	1/2"C,1#12,#12N,#12G	RCPT - 103 Office	P1:8
P1:9	RCPT - Telecom Board	1/2"C,1#12,#12N,#12G	20	H		80... 15...			20	1/2"C,1#10,#10N,#10G	Electric Wall Heater - 104 Elevator	P1:10
P1:11	RCPT - Telecom Board	1/2"C,1#12,#12N,#12G	20	H			80... 18...		20	1/2"C,1#12,#12N,#12G	Water Heater 'HWH-A'	P1:12
P1:13	Electric Water Cooler	1/2"C,1#12,#12N,#12G	20		18... 48...				20	1/2"C,1#12,#12N,#12G	Recirculation Pump 'HWP'	P1:14
P1:15	RCPT - 108 Seating	1/2"C,1#12,#12N,#12G	20			72... 54...			20	1/2"C,1#12,#12N,#12G	RCPT - 121, 126 Halls	P1:16
P1:17	RCPT - 114 Storage	1/2"C,1#12,#12N,#12G	20				72... 54...		20	1/2"C,1#12,#12N,#12G	RCPT - 124, 128 Men/Women	P1:18
P1:19	RCPT - 116 Seating	1/2"C,1#12,#12N,#12G	20		54... 54...				20	1/2"C,1#12,#12N,#12G	RCPT - 126, 127 Halls, S4	P1:20
P1:21	RCPT - 118 S. Party Room 1	1/2"C,1#12,#12N,#12G	20			54... 72...			20	1/2"C,1#12,#12N,#12G	RCPT - 129 Storage	P1:22
P1:23	RCPT - 118 N. Party Room 1	1/2"C,1#12,#12N,#12G	20				54... 14...		20	1/2"C,1#10,#10N,#10G	RCPT - Show Window 101 Vest	P1:24
P1:25	RCPT - 122 Party Room 2	1/2"C,1#12,#12N,#12G	20		90... 14...				20	1/2"C,1#10,#10N,#10G	RCPT - Show Window 102 Recept	P1:26
P1:27	Fire Alarm Control Panel	1/2"C,1#12,#12N,#12G	20	H		20... --			--	--	Space	P1:28
P1:29	LTG - Exteior Downlights	1/2"C,1#12,#12N,#12G	20				76... --		--	--	Space	P1:30
P1:31	LTG - Exterior Lighting Controls	1/2"C,1#12,#12N,#12G	20		0 VA --				--	--	Space	P1:32
P1:33	LTG - Future Building Sign	1/2"C,1#10,#10N,#10G	20			12... --			--	--	Space	P1:34
P1:35	LTG - Future Building Sign	1/2"C,1#10,#10N,#10G	20				12... --		--	--	Space	P1:36
P1:37	Space	--	--		-- --				--	--	Space	P1:38
P1:39	Space	--	--			-- --			--	--	Space	P1:40
P1:41	Space	--	--				-- --		--	--	Space	P1:42
			Connected Load:		7374 VA	8288 VA	6837 VA					
			Connected Amps:		62 A	70 A	57 A					

Designation: M

Installed Location:
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 100
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
M:1	LTG - West Mezzanine	1/2"C,1#12,#12N,#12G	20		62... 54...				20	1/2"C,1#12,#12N,#12G	RCPT - M07 Bar Storage	M:2
M:3	LTG - East Mezzanine	1/2"C,1#12,#12N,#12G	20			93... 36...		G	20	1/2"C,1#12,#12N,#12G	RCPT - Mezz POS	M:4
M:5	RCPT - M14-M16 Toilets/Jan	1/2"C,1#12,#12N,#12G	20				54... 20...	G	20	1/2"C,1#12,#12N,#12G	Draft Beer Cooler - Item 3	M:6
M:7	RCPT - S. M01 Party Room 3	1/2"C,1#12,#12N,#12G	20		54... 24...			G	20	1/2"C,1#12,#12N,#12G	Refrigerated Cabinet - Item 4	M:8
M:9	RCPT - N. M01 Party Room 3	1/2"C,1#12,#12N,#12G	20			54... 36...			20	1/2"C,1#12,#12N,#12G	RCPT - M03 Seating	M:10
M:11	RCPT - S. M08 Party Room 4	1/2"C,1#12,#12N,#12G	20				54... 54...		20	1/2"C,1#12,#12N,#12G	RCPT - M11 Seating	M:12
M:13	RCPT - N. M08 Party Room 4	1/2"C,1#12,#12N,#12G	20		54... 0 VA				20	--	Spare	M:14
M:15	Space	--	--			-- 0 VA			20	--	Spare	M:16
M:17	Space	--	--				-- --		--	--	Space	M:18
M:19	Space	--	--		-- --				--	--	Space	M:20
M:21	Space	--	--			-- --			--	--	Space	M:22
M:23	Space	--	--				-- --		--	--	Space	M:24
M:25	Space	--	--		-- --				--	--	Space	M:26
M:27	Space	--	--			-- --			--	--	Space	M:28
M:29	Space	--	--				-- --		--	--	Space	M:30
			Connected Load:		2481 VA	2199 VA	1824 VA					
			Connected Amps:		21 A	19 A	15 A					

Designation: P2

Installed Location:
Voltage: 208Y/120 3PH 4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
P2:1	Lighting - N. 2nd Floor Common Area	1/2"C,1#12,#12N,#12G	20		43... 18...				20	1/2"C,1#12,#12N,#12G	Fitness Equipment - Gym 223	P2:2
P2:3	Lighting - S. 2nd Floor Common Area	1/2"C,1#12,#12N,#12G	20			81... 54...			20	1/2"C,1#12,#12N,#12G	Fitness Equipment - Gym 223	P2:4
P2:5	Lighting - Gym 223	1/2"C,1#12,#12N,#12G	20				16... 18...		20	1/2"C,1#12,#12N,#12G	Fitness Equipment - Gym 223	P2:6
P2:7	RCPT - 201, 202, 204 TLTS/Jan	1/2"C,1#12,#12N,#12G	20		54... 18...				20	1/2"C,1#12,#12N,#12G	TV - Gym 223	P2:8
P2:9	RCPT - Halls 203, 208	1/2"C,1#12,#12N,#12G	20			90... 18...			20	1/2"C,1#12,#12N,#12G	TV - Gym 223	P2:10
P2:11	RCPT - Hall 212	1/2"C,1#12,#12N,#12G	20				72... 18...		20	1/2"C,1#12,#12N,#12G	TV - Gym 223	P2:12
P2:13	Electric Water Heating		20		15... 72...				20	1/2"C,1#12,#12N,#12G	RCPT - Gym 223	P2:14
P2:15	Spare	--	20				0 VA 18...		20	1/2"C,1#12,#12N,#12G	Electric Water Cooler - Gym 223	P2:16
P2:17	Spare	--	20				0 VA 40...		50	3/4"C,2#6,#10G	Blower Coil 'BC-9' Electric Heat	P2:18
P2:19	Space	--	--		-- 40...							P2:20
P2:21	Space	--	--			-- 22...			25	1/2"C,2#10,#10G	Blower Coil - 'BC-10' Electric Heat	P2:22
P2:23	Space	--	--				-- 22...					P2:24
P2:25	Space	--	--		-- --				--	--	Space	P2:26
P2:27	Space	--	--			-- --			--	--	Space	P2:28
P2:29	Space	--	--				-- --		--	--	Space	P2:30
			Connected Load:		7568 VA	4825 VA	7465 VA					
			Connected Amps:		66 A	40 A	66 A					

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101 N. SANTA FE AVE.
REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR
SALINA, KANSAS

JOHN C. LEWIS — LICENSED ARCHITECT — 14654 — KANSAS — PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

2025.03.20 16:54:21-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

E6.2

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Project 24058

3/20/2025

Designation: A5

Installed Location: APARTMENT 5
Voltage: 120/240 1PH 3W
Mounting: Flush
Enclosure: NEMA 1

Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A		B		FN	Trip (A)	Circuitry	Description	Ckt
A5:1	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA	5 A	19 A				30	1/2"C,2#10,#10G	Water Heater	A5:2
A5:3	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA			5 A	19 A					A5:4
A5:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	GA	4 A	23 A				30	1/2"C,2#10,#10G	Clothes Dryer	A5:6
A5:7	Disposal	1/2"C,1#12,#12N,#12G	20	GA			4 A	23 A					A5:8
A5:9	Refrigerator	1/2"C,1#12,#12N,#12G	20	GA	2 A	33 A				50	3/4"C,2#6,#10G	Range	A5:10
A5:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A			5 A	33 A					A5:12
A5:13	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A	5 A	44 A				60	3/4"C,2#4,#10G	Blower Coil 'BC-15'	A5:14
A5:15	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A			2 A	44 A					A5:16
A5:17	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	GA	2 A	12 A				25	1/2"C,2#10,#10G	Heat Pump 'HP-15'	A5:18
A5:19	Clothes Washer Receptacles	1/2"C,1#12,#12N,#12G	20	GA			2 A	12 A					A5:20
A5:21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	0 A				20	--	Spare	A5:22
A5:23	Bathroom	1/2"C,1#12,#12N,#12G	20	G			3 A	0 A		20	--	Spare	A5:24
A5:25	Spare Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	0 A				20	--	Spare	A5:26
A5:27	Spare	--	20				0 A	--		--	--	Surge Protection	A5:28
A5:29	Spare	--	20		0 A	--				--	--	Surge Protection	A5:30

Designation: A1

Installed Location: APARTMENT 1
Voltage: 120/240 1PH 3W
Mounting: Flush
Enclosure: NEMA 1

Bus Amps: 150
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A		B		FN	Trip (A)	Circuitry	Description	Ckt
A1:1	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA	3 A	19 A				30	1/2"C,2#10,#10G	Water Heater	A1:2
A1:3	Kitchen Counter/Island Receptacles	1/2"C,1#12,#12N,#12G	20	GA			3 A	19 A					A1:4
A1:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	GA	4 A	23 A				30	1/2"C,2#10,#10N,#10G	Clothes Dryer	A1:6
A1:7	Disposal	1/2"C,1#12,#12N,#12G	20	GA			4 A	23 A					A1:8
A1:9	Refrigerator	1/2"C,1#12,#12N,#12G	20	GA	2 A	33 A				50	3/4"C,2#6,#6N,#10G	Range	A1:10
A1:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A			8 A	33 A					A1:12
A1:13	Hall/Mech Receptacles	1/2"C,1#12,#12N,#12G	20	A	8 A	47 A				60	3/4"C,2#4,#10G	Blower Coil 'BC-11' Fan/Electric Heat Circuit 1	A1:14 A1:16
A1:15	Kitchen/Living/Hall/Mech Lighting	1/2"C,1#12,#12N,#12G	20	A			3 A	47 A					
A1:17	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	GA	2 A	20 A				25	1/2"C,2#10,#10G	Blower Coil 'BC-11' Electric Heat Circuit 2	A1:18 A1:20
A1:19	Clothes Washer Receptacles	1/2"C,1#12,#12N,#12G	20	GA			2 A	20 A					
A1:21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	A	10 A	12 A				40	1/2"C,2#8,#10G	Heat Pump - 'HP-11'	A1:22
A1:23	Master Bathroom	1/2"C,1#12,#12N,#12G	20	G			5 A	12 A					A1:24
A1:25	Bathroom	1/2"C,1#12,#12N,#12G	20	G	3 A	2 A				20	1/2"C,1#12,#12N,#12G	Clothes Dryer Booster Fan	A1:26
A1:27	Spare Bedroom 1	1/2"C,1#12,#12N,#12G	20	A			6 A	--		--	--	Surge Protection	A1:28
A1:29	Spare Bedroom 2	1/2"C,1#12,#12N,#12G	20	A	6 A	--				--	--	Surge Protection	A1:30

Designation: A6

Installed Location: APARTMENT 6
Voltage: 120/240 1PH 3W
Mounting: Flush
Enclosure: NEMA 1

Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 18.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A		B		FN	Trip (A)	Circuitry	Description	Ckt
A6:1	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA	5 A	19 A				30	1/2"C,2#10,#10G	Water Heater	A6:2
A6:3	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA			5 A	19 A					A6:4
A6:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	GA	4 A	23 A				30	1/2"C,2#10,#10G	Clothes Dryer	A6:6
A6:7	Disposal	1/2"C,1#12,#12N,#12G	20	GA			4 A	23 A					A6:8
A6:9	Refrigerator	1/2"C,1#12,#12N,#12G	20	GA	2 A	33 A				50	3/4"C,2#6,#10G	Range	A6:10
A6:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A			5 A	33 A					A6:12
A6:13	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A	5 A	44 A				60	3/4"C,2#4,#10G	Blower Coil 'BC-16'	A6:14
A6:15	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A			2 A	44 A					A6:16
A6:17	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	GA	2 A	12 A				25	1/2"C,2#10,#10G	Heat Pump 'HP-16'	A6:18
A6:19	Clothes Washer Receptacles	1/2"C,1#12,#12N,#12G	20	GA			2 A	12 A					A6:20
A6:21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	A	11 A	--				--	--	Space	A6:22
A6:23	Bathroom	1/2"C,1#12,#12N,#12G	20	G			3 A	--		--	--	Space	A6:24
A6:25	Spare Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	--				--	--	Space	A6:26
A6:27	Space	--	--				--	--		--	--	Surge Protection	A6:28
A6:29	Space	--	--		--	--				--	--	Surge Protection	A6:30

Designation: A2

Installed Location: APARTMENT 2
Voltage: 120/240 1PH 3W
Mounting: Flush
Enclosure: NEMA 1

Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A		B		FN	Trip (A)	Circuitry	Description	Ckt
A2:1	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA	5 A	19 A				30	1/2"C,2#10,#10G	Water Heater	A2:2
A2:3	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA			3 A	19 A					A2:4
A2:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	GA	4 A	23 A				30	1/2"C,2#10,#10G	Clothes Dryer	A2:6
A2:7	Disposal	1/2"C,1#12,#12N,#12G	20	GA			4 A	23 A					A2:8
A2:9	Refrigerator	1/2"C,1#12,#12N,#12G	20	GA	2 A	33 A				50	3/4"C,2#6,#10G	Range	A2:10
A2:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A			5 A	33 A					A2:12
A2:13	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A	5 A	36 A				45	3/4"C,2#6,#10G	Blower Coil 'BC-12'	A2:14
A2:15	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A			2 A	36 A					A2:16
A2:17	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	GA	2 A	12 A				25	1/2"C,2#10,#10G	Heat Pump 'HP-12'	A2:18
A2:19	Clothes Washer Receptacles	1/2"C,1#12,#12N,#12G	20	GA			2 A	12 A					A2:20
A2:21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	A	9 A	2 A				20	1/2"C,1#12,#12N,#12G	Clothes Dryer Booster Fan	A2:22
A2:23	Bathroom	1/2"C,1#12,#12N,#12G	20	G			3 A	--		--	--	Space	A2:24
A2:25	Spare Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	--				--	--	Space	A2:26
A2:27	Space	--	--				--	--		--	--	Surge Protection	A2:28
A2:29	Space	--	--		--	--				--	--	Surge Protection	A2:30

Breaker Function Schedule

#	For any number, see panel schedule footer note
A	Arc-Fault Interrupter (AFCI) Protection
EM	Provide identification per NEC 700.12(I)(2)(4)
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
GA	Combination Arc-Fault Interrupter (AFCI) and Ground-Fault Circuit Interrupter, 5mA, (GFCI) Protection
GE	Ground-Fault Protection for Equipment (30 mA)
GF	Adjustable Ground-Fault Protection for Equipment
H	Breaker hasp to prevent unintentional opening
HR	'HACR' rated breaker.
L	Lockable open according to NEC 110.25
S	Switch-rated per NEC 240.83(D)

Designation: A3

Installed Location: APARTMENT 3
Voltage: 120/240 1PH 3W
Mounting: Flush
Enclosure: NEMA 1

Bus Amps: 125
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 10.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A		B		FN	Trip (A)	Circuitry	Description	Ckt
A3:1	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA	3 A	19 A				30	1/2"C,2#10,#10G	Water Heater	A3:2
A3:3	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA			3 A	19 A					A3:4
A3:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	GA	4 A	23 A				30	1/2"C,2#10,#10G	Clothes Dryer	A3:6
A3:7	Disposal	1/2"C,1#12,#12N,#12G	20	GA			4 A	23 A					A3:8
A3:9	Refrigerator	1/2"C,1#12,#12N,#12G	20	GA	2 A	33 A				50	3/4"C,2#6,#10G	Range	A3:10
A3:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A			6 A	33 A					A3:12
A3:13	Living Room/Hall Receptacles	1/2"C,1#12,#12N,#12G	20	A	5 A	36 A				40	1/2"C,2#8,#10G	Blower Coil 'BC-13'	A3:14
A3:15	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A			2 A	36 A					A3:16
A3:17	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	GA	2 A	12 A				25	1/2"C,2#10,#10G	Heat Pump 'HP-13'	A3:18
A3:19	Clothes Washer Receptacles	1/2"C,1#12,#12N,#12G	20	GA			2 A	12 A					A3:20
A3:21	Bedroom	1/2"C,1#12,#12N,#12G	20	A	9 A	2 A				20	1/2"C,1#12,#12N,#12G	Clothes Dryer Booster Fan	A3:22
A3:23	Bathroom	1/2"C,1#12,#12N,#12G	20	G			3 A	--		--	--	Space	A3:24
A3:25	Space	--	--		--	--				--	--	Space	A3:26
A3:27	Space	--	--				--	--		--	--	Surge Protection	A3:28
A3:29	Space	--	--		--	--				--	--	Surge Protection	A3:30

Designation: A4

Installed Location: APARTMENT 4
Voltage: 120/240 1PH 3W
Mounting: Flush
Enclosure: NEMA 1

Bus Amps: 150
MCB Amps: MLO
Features & Modifications: -

SCCR/AIC: 18.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A		B		FN	Trip (A)	Circuitry	Description	Ckt
A4:1	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA	3 A	19 A				30	1/2"C,2#10,#10G	Water Heater	A4:2
A4:3	Kitchen Counter Receptacles	1/2"C,1#12,#12N,#12G	20	GA			3 A	19 A					A4:4
A4:5	Dishwasher	1/2"C,1#12,#12N,#12G	20	GA	4 A	23 A				30	1/2"C,2#10,#10G	Clothes Dryer	A4:6
A4:7	Dispoal	1/2"C,1#12,#12N,#12G	20	GA			4 A	23 A					A4:8
A4:9	Refrigerator	1/2"C,1#12,#12N,#12G	20	GA	2 A	33 A				50	3/4"C,2#6,#10G	Range	A4:10
A4:11	Living Room Receptacles	1/2"C,1#12,#12N,#12G	20	A			5 A	33 A					A4:12
A4:13	Living Room/Hall Receptacles	1/2"C,1#12,#12N,#12G	20	A	5 A	45 A				60	3/4"C,2#4,#10G	Blower Coil 'BC-14' Fan/Electric Heat Circuit 1	A4:14 A4:16
A4:15	Kitchen/Living/Hall Lighting	1/2"C,1#12,#12N,#12G	20	A			2 A	45 A					
A4:17	Clothes Washer Receptacles	1/2"C,1#12,#12N,#12G	20	GA	2 A	20 A				25	1/2"C,2#10,#10G	Blower Coil 'BC-14' Electric Heat Circuit 2	A4:18 A4:20
A4:19	Hood/Microwave	1/2"C,1#12,#12N,#12G	20	GA			2 A	20 A					
A4:21	Master Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	12 A				30	1/2"C,2#10,#10G	Heat Pump 'HP-14'	A4:22
A4:23	Bathroom	1/2"C,1#12,#12N,#12G	20	G			3 A	12 A					A4:24
A4:25	Spare Bedroom	1/2"C,1#12,#12N,#12G	20	A	8 A	2 A				20	1/2"C,1#12,#12N,#12G	Clothes Dryer Booster Fan	A4:26
A4:27	Space	--	--				--	--		--	--	Surge Protection	A4:28
A4:29	Space	--	--		--	--				--	--	Surge Protection	A4:30

OCCUPANCY SENSOR SCHEDULE

OS TYPE	MANUFACTURER	MODEL NUMBER	TECHNOLOGY TYPE	DESCRIPTION	NOTES
1	SENSORWORX	SWX-221-2	DUAL TECHNOLOGY	120V LINE VOLTAGE 360 DEGREE CEILING SENSOR	
2	SENSORWORX	SWX-202-1	PIR	LOW VOLTAGE 360 DEGREE CEILING SENSOR	1

GENERAL:
- INSTALL AND AIM SENSORS AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE.

NOTES:
1. PROVIDE RELAY/POWER PACK AS REQUIRED TO CONTROL LOAD, SENSORWORX #SWX-900.

LIGHT FIXTURE SCHEDULE

c c	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
A1	DAY-BRITE CFI	1SBP2035L8DS-4-UNV-DIM	33 W	4000 lm	0-10V DIMMING TO 5%	LAY-IN	WHITE	1 X4 BACKLIT LED FLAT PANEL WITH EXTRUDED ALUMINUM FRAME AND FLAT OPAL DIFFUSER WITH SURFACE MOUNT KIT.	--
A2	DAY-BRITE CFI	2SBP2035L8DS-2-UNV-DIM	34 W	3900 lm	0-10V DIMMING TO 5%	LAY-IN	WHITE	2X2 BACKLIT LED FLAT PANEL WITH EXTRUDED ALUMINUM FRAME AND FLAT OPAL DIFFUSER	5
A3	DAY-BRITE CFI	2SBP3550L8DS-4-UNV-DIM	51 W	6000 lm	0-10V DIMMING TO 5%	LAY-IN	WHITE	2X4 BACKLIT LED FLAT PANEL WITH EXTRUDED ALUMINUM FRAME AND FLAT OPAL DIFFUSER	5
B	MAXIM LIGHTING	52004	20 W	1900 lm	LED DRIVER, ELV DIMMABLE, 2%	SURFACE WALL HORIZONTAL	SELECTED BY ARCHITECT	LED VANITY LIGHT	--
C2	LIGHTOLIER	S7R835K	14 W	1000 lm	LED DRIVER, ELV DIMMABLE, 2%	CEILING SURFACE	WHITE	7" DIA ROUND SURFACE MOUNT DOWNLIGHT	--
D	DAY-BRITE CFI	2FPZ80L835-4-DS-UNVS-DIM	65 W	8000 lm	0-10V DIMMING TO 5%	LAY-IN	WHITE	IC RATED 2X4 BACKLIT LED FLAT PANEL WITH EXTRUDED ALUMINUM FRAME AND FLAT OPAL DIFFUSER	5
E1	CHLORIDE	VLTU	[redacted]		--	SURFACE WALL	WHITE	LED DUAL-HEAD EMERGENCY LIGHT	1
E2	LITHONIA	AFB-OEL-DDBTXD-UVOLT-N-WT-CW			--	SURFACE WALL	WHITE	DIE-CASET ALUMINUM EMERGENCY LIGHT WITH POLYCARBONATE LENS, INTEGRAL COLD WEATHER BATTERY	1
F	---	SELECTED BY OWNER, PROVIDED BY E.C.	20 W		STANDARD	CEILING SUSPENDED	SELECTED BY ARCHITECT	52" DIAMETER CEILING FAN WITH LED LIGHT KIT	--
G	DAY-BRITE CFI	FSS440L835-UNV-DIM	30 W	4000 lm	0-10V DIMMING TO 10%	SUSPENDED	WHITE	4' STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS	--
H	DAY-BRITE CFI	V3W443L835-UNV-DIM	29 W	3700 lm	STANDARD	WALL	WHITE	4FT FULLY ENCLOSED AND GASKETED INDUSTRIAL FIXTURE WITH FROSTED, RIBBED, IMPACT-RESISTANT ACRYLIC LENS	--
J	DAY-BRITE CFI	SF4VC42A35USZT-US-EMLED	52 W	4200 lm	STANDARD	WALL	WHITE	4FT WALL MOUNTED STAIRWELL LIGHT WITH INTEGRAL OCCUPANCY SENSOR, STEP DIMMING, AND EMERGENCY BATTERY BACKUP	--
K	LITHONIA	6RN-P6RDL109040WCLWH-Z10U	10 W	1000 lm	0-10V DIMMING TO 1%	RECESSED	WHITE	6" DOWNLIGHT	6
W1	GARDCO	GCSA03840T3MUNVBK	25 W	3701 lm	STANDARD	SURFACE WALL	BLACK	LED WALL PACK WITH IES TYPE 3 DISTRIBUTION	--
W2	GARDCO	GCSA03840T4MUNVBK	25 W	3603 lm	STANDARD	SURFACE WALL	BLACK	LED WALL PACK WITH IES TYPE 4 DISTRIBUTION	--
X1	CHLORIDE	VERWEM	1 W		--	CEILING/WALL	WHITE	UNIVERSAL SINGLE FACE POLYCARBONATE EXIT SIGN	1,2
X2	CHLORIDE	VERWEM	1 W		--	CEILING/WALL	WHITE/RED LETTERING	UNIVERSAL DOUBLE FACE POLYCARBONATE EXIT SIGN	1,2
X3	MULE	WLMX1BRWHSD	1 W		--	SURFACE WALL	WHITE/RED LETTERING	LED EXIT SIGN - WALL MOUNTED EXTERIOR RATED	1,2,3,4
XE	CHLORIDE	VLTCR3R	2 W	200 lm	--	CEILING/WALL	WHITE/RED LETTERING	LED COMBINATION EXIT/EMERGENCY LIGHT	1,2

GENERAL:
- ALL INTERIOR LED'S SHALL BE 3500K CORRELATED COLOR TEMPERATURE, MINIMUM 80 CRI
- ALL LED FIXTURES SHALL ADHERE TO LM79 AND LM80 STANDARDS
- PROVIDE MANUFACTURER'S FLANGE KIT WHERE LAY-IN FIXTURES ARE TO BE INSTALLED IN GYP.

NOTES:
1. PROVIDE FIXTURE WITH EMERGENCY BATTERY INTEGRAL CHARGER.
2. FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNTING AND HAVE BREAK-OUT DIRECTIONAL CHEVRONS.
3. FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -4F THROUGH 104F.
4. U.L. LISTED FOR 'WET LOCATION'.
5. INSTALL FIXTURE PER DETAIL 3, SHEET E6.1
6. U.L. LISTED FOR 'DAMP LOCATION'.

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REMODEL AND ADDITIONS: PELE'S PLAYGROUND, APARTMENTS AND ROOF TOP BAR

SALINA, KANSAS

NOT FOR CONSTRUCTION

2025.03.20 16:54:42-05'00'

REVISIONS:

DATE: 3/20/2025
JOB: 24-3421
SHEET NO.:

E6.3