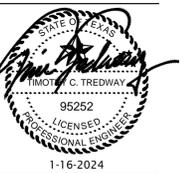




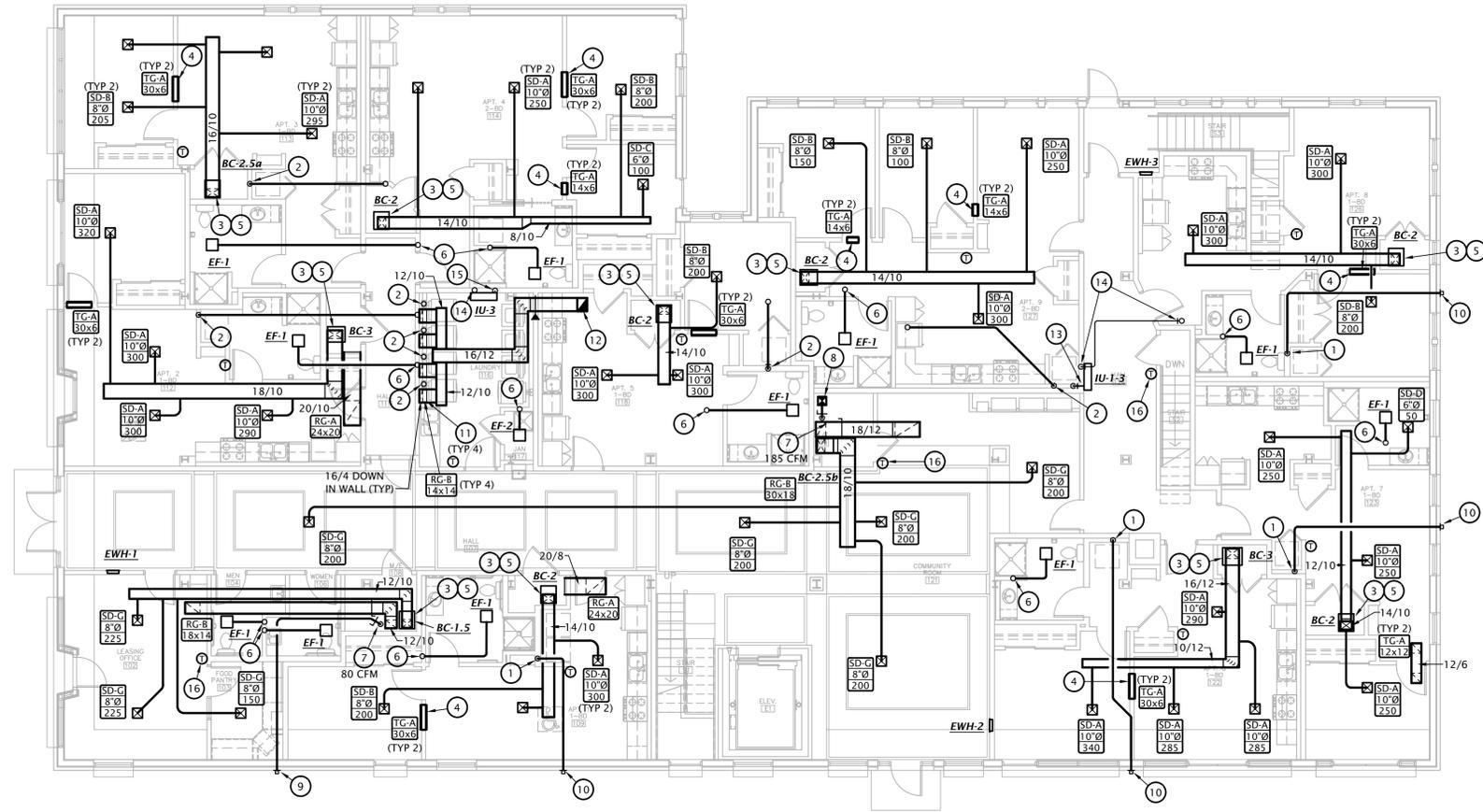
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MECHANICAL NOTES BY SYMBOL

- PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4" DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASE WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.
 NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4" DRYER EXHAUST DUCT TO ROOF JACK WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASE WHERE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW, AND DOCUMENTATION IS PROVIDED TO CODE OFFICIAL PRIOR TO CONCEALMENT INSPECTION. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.
 NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS. SEE M1.4 FOR HEAT PUMP LOCATIONS.
- MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL.
- PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
- ROUTE 4" EXHAUST UP IN WALL TO ROOF. DUCTS SHALL BE RUN IN WALLS CONTINUOUS FROM EXHAUST FAN TO EXTERIOR OF BUILDING WITHOUT BEING COMBINED. COORDINATE EXACT ROUTING AND WALL LOCATIONS WITH G.C. AND EXISTING CONDITIONS.
- CONNECT OUTDOOR AIR DUCT TO RETURN DUCT AT BLOWER COIL AND BALANCE AS INDICATED ON PLANS.
- OUTDOOR AIR DUCT UP TO INTAKE HOOD ON ROOF, SEE ROOF PLAN ON M1.4 FOR MORE INFORMATION.
- ROUTE 6" OUTDOOR AIR INTAKE TO WALL CAP WITH BIRD SCREEN.
- PROVIDE DRYER WALL CAP EQUAL TO INNOVATE TECHNOLOGIES 'DRYER WALL VENT' IN COLOR AS SELECTED BY ARCHITECT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
- MOUNT DRYER MAKE-UP AIR GRILLE LOW IN WALL BEHIND DRYER.
- ROUTE UP THROUGH ROOF AND TRANSITION TO CONNECTION AT INTAKE HOOD.
- ROUTE CONDENSATE FROM INDOOR UNIT TO INDIRECT CONNECTION AT DRAIN BOX IN LAUNDRY CLOSET. COORDINATE WITH PLUMBING CONTRACTOR.
- ROUTE REFRIGERANT PIPING. CONCEALED IN WALLS AND ABOVE CEILING FROM INDOOR UNIT TO MATCHING HEAT PUMP UNIT ON ROOF. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- ROUTE CONDENSATE FROM INDOOR UNIT TO INDIRECT CONNECTION AT DRAIN BOX IN LAUNDRY CLOSET. COORDINATE WITH PLUMBING CONTRACTOR.
- THERMOSTAT SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F BETWEEN CHANGEOVER FROM HEATING TO COOLING MODES.

NOTES:
 • ALL DUCTWORK SHALL BE SEALED PER 2021 IECC REQUIREMENTS. COORDINATE REQUIREMENTS WITH G.C.
 • DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC TAPE.



NOTE: ALL EXHAUST FANS AND AIR DEVICES THAT PENETRATE A CEILING ASSEMBLY SHALL BE PROVIDED WITH A U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIVALENT.

1 FIRST FLOOR HVAC PLAN
 1/8" = 1'-0"

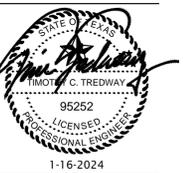
2 BASEMENT HVAC PLAN
 1/8" = 1'-0"

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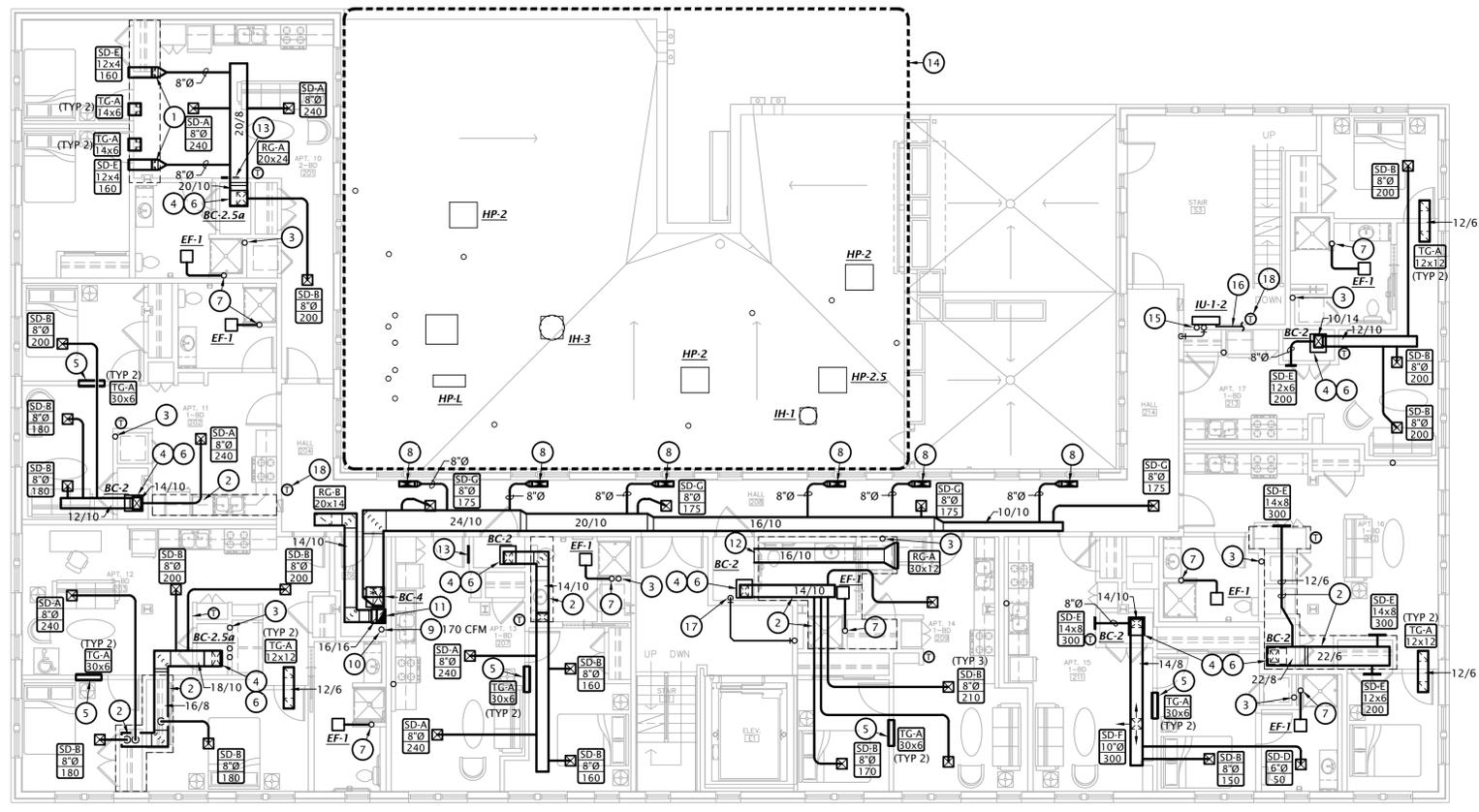
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M1.2

MECHANICAL NOTES BY SYMBOL

- TRANSITION FROM 8"Ø TO 12/4 DUCT AND ROUTE BELOW BEAM IN SOFFIT. INSTALL DUCT AS HIGH AS POSSIBLE TO BEAM. COORDINATE EXACT ROUTING AND SOFFIT LOCATION WITH G.C. AND ARCHITECT.
- DUCT TO BE ROUTED IN SOFFIT, INSTALL AS HIGH AS POSSIBLE TO STRUCTURE. COORDINATE EXACT ROUTING AND SOFFIT LOCATION WITH G.C. AND ARCHITECT.
- 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. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504. NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS. SEE M1.4 FOR HEAT PUMP LOCATIONS.
- MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL.
- PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
- ROUTE 4" EXHAUST UP IN WALL TO ROOF. DUCTS SHALL BE RUN IN WALLS CONTINUOUS FROM EXHAUST FAN TO EXTERIOR OF BUILDING WITHOUT BEING COMBINED. COORDINATE EXACT ROUTING AND WALL LOCATIONS WITH G.C. AND EXISTING CONDITIONS.
- ROUTE DUCTWORK UP TO SUPPLY GRILLE AT FLOOR ABOVE.
- CONNECT OUTDOOR AIR DUCT TO RETURN DUCT AT BLOWER COIL AND BALANCE AS INDICATED ON PLANS.
- 8"Ø OUTDOOR AIR DUCT FROM FLOOR ABOVE, SEE M1.3 FOR CONTINUATION.
- TRANSITION TO 16/10 RETURN DUCT AND ROUTE UP TO 3RD FLOOR, SEE M1.3 FOR CONTINUATION.
- ROUTE OPEN ENDED TRANSFER DUCT FROM MECHANICAL CLOSET THROUGH LOWERED CEILING, TRANSITION TO WALL MOUNTED RETURN GRILLE IN APARTMENT.
- MOUNT RETURN GRILLE LOW IN WALL.
- SEE ROOF PLAN ON M1.4 FOR MORE INFORMATION.
- ROUTE REFRIGERANT PIPING CONCEALED IN WALLS AND ABOVE CEILING FROM INDOOR UNIT TO MATCHING HEAT PUMP UNIT ON ROOF. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- ROUTE CONDENSATE PIPING FROM INDOOR UNIT CONCEALED IN WALL TO FLOOR DRAIN IN MECHANICAL CLOSET. FIELD COORDINATE EXACT ROUTING WITH OTHER TRADES.
- ROUTE CONDENSATE PIPING FROM INDOOR UNIT ABOVE CONCEALED ABOVE CEILING TO FLOOR DRAIN IN MECHANICAL CLOSET. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- THERMOSTAT SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F BETWEEN CHANGEVER FROM HEATING TO COOLING MODES.

NOTES:
 • ALL DUCTWORK SHALL BE SEALED PER 2021 IECC REQUIREMENTS. COORDINATE REQUIREMENTS WITH G.C.
 • DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC TAPE.



NOTE: ALL EXHAUST FANS AND AIR DEVICES THAT PENETRATE A CEILING ASSEMBLY SHALL BE PROVIDED WITH A U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIVALENT.

1 SECOND FLOOR HVAC PLAN
 1/8" = 1'-0"

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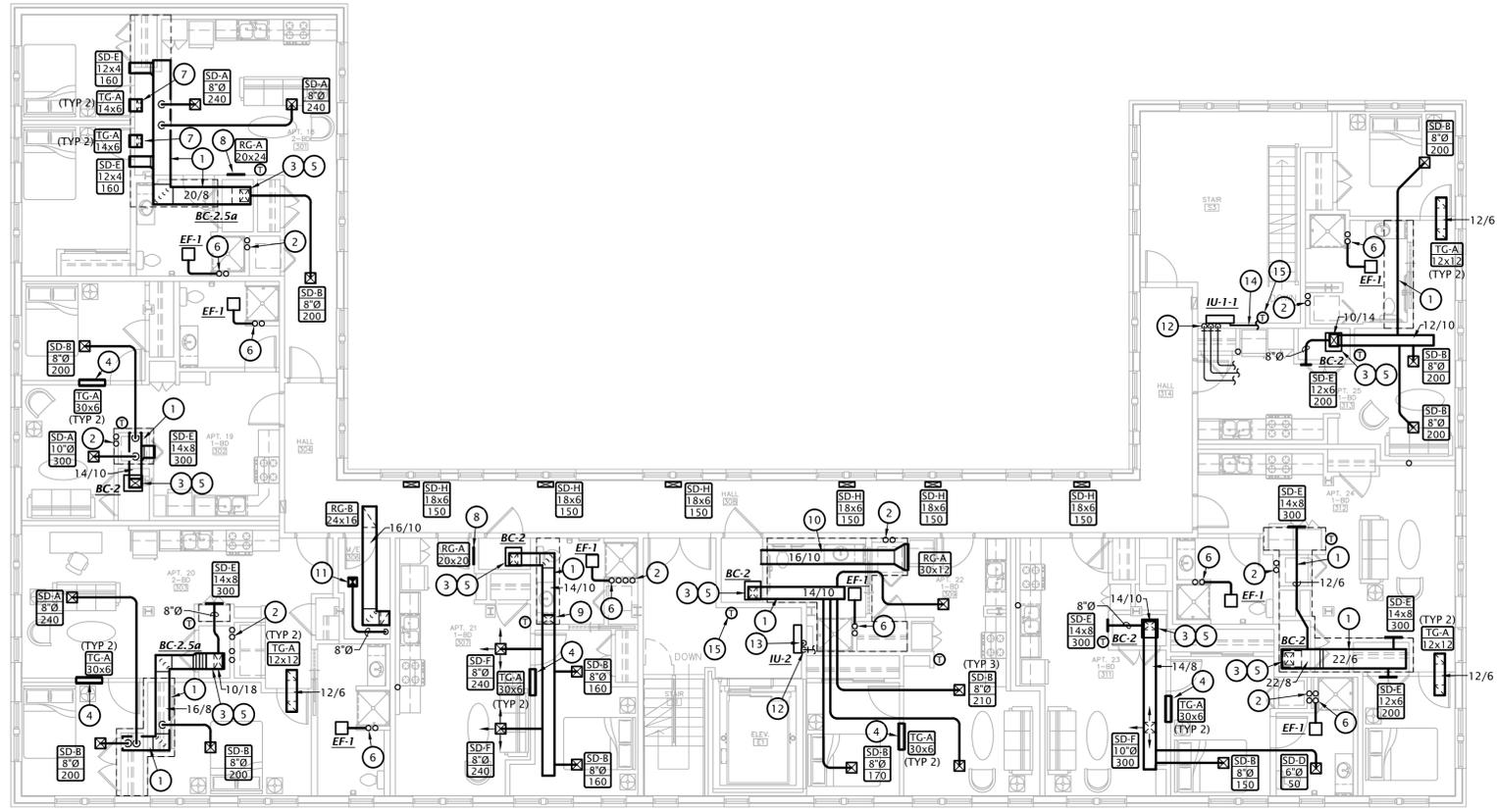


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MECHANICAL NOTES BY SYMBOL

- DUCT TO BE ROUTED IN LOWERED CEILING/ SOFFIT, INSTALL AS HIGH AS POSSIBLE TO STRUCTURE. COORDINATE EXACT ROUTING AND SOFFIT LOCATION WITH G.C. AND ARCHITECT.
- PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4" DRYER EXHAUST DUCT TO ROOF JACK WITH BACKDRAFT DAMPER. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.
 NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING SYSTEM.
- ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO MATCHING HEAT PUMP CONCEALED ABOVE CEILINGS AND IN WALLS. SEE M1.4 FOR HEAT PUMP LOCATIONS.
- MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GRILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. LINE STUD CAVITY WITH SHEET METAL.
- PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
- ROUTE 4" EXHAUST UP IN WALL TO ROOF. DUCTS SHALL BE RUN IN WALLS CONTINUOUS FROM EXHAUST FAN TO EXTERIOR OF BUILDING WITHOUT BEING COMBINED. COORDINATE EXACT ROUTING AND WALL LOCATIONS WITH G.C. AND EXISTING CONDITIONS.
- MOUNT TRANSFER GRILLE IN BEDROOM WALL AND DUCT TO GRILLE IN SOFFIT.
- MOUNT RETURN GRILLE LOW IN WALL.
- ROUTE DUCT BELOW BEAM IN SOFFIT, TRANSITION UP TO ABOVE BEDROOM CEILING.
- ROUTE OPEN ENDED TRANSFER DUCT FROM MECHANICAL CLOSET THROUGH LOWERED CEILING, TRANSITION TO WALL MOUNTED RETURN GRILLE IN APARTMENT.
- OUTDOOR AIR DUCT UP TO INTAKE HOOD ON ROOF, SEE ROOF PLAN ON M1.4 FOR MORE INFORMATION.
- ROUTE REFRIGERANT PIPING CONCEALED IN WALLS AND ABOVE CEILING FROM INDOOR UNIT TO MATCHING HEAT PUMP UNIT ON ROOF. FIELD COORDINATE EXACT ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES.
- ROUTE CONDENSATE PIPING FROM INDOOR UNIT DOWN CONCEALED IN WALL AND ROUTE TO ABOVE FLOOR DRAIN IN MECHANICAL ROOM AT FLOOR BELOW.
- ROUTE CONDENSATE PIPING FROM INDOOR UNIT CONCEALED IN WALL TO FLOOR DRAIN IN MECHANICAL CLOSET. FIELD COORDINATE ROUTING WITH OTHER TRADES.
- THERMOSTAT SHALL BE CONFIGURED TO PROVIDE A TEMPERATURE RANGE OR DEADBAND OF NOT LESS THAN 5°F BETWEEN CHANGEVER FROM HEATING TO COOLING MODES.

NOTES:
 • ALL DUCTWORK SHALL BE SEALED PER 2021 IECC REQUIREMENTS. COORDINATE REQUIREMENTS WITH G.C.
 • DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC TAPE.



NOTE: ALL EXHAUST FANS AND AIR DEVICES THAT PENETRATE A CEILING ASSEMBLY SHALL BE PROVIDED WITH A U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIVALENT.

1 THIRD FLOOR HVAC PLAN
 1/8" = 1'-0"



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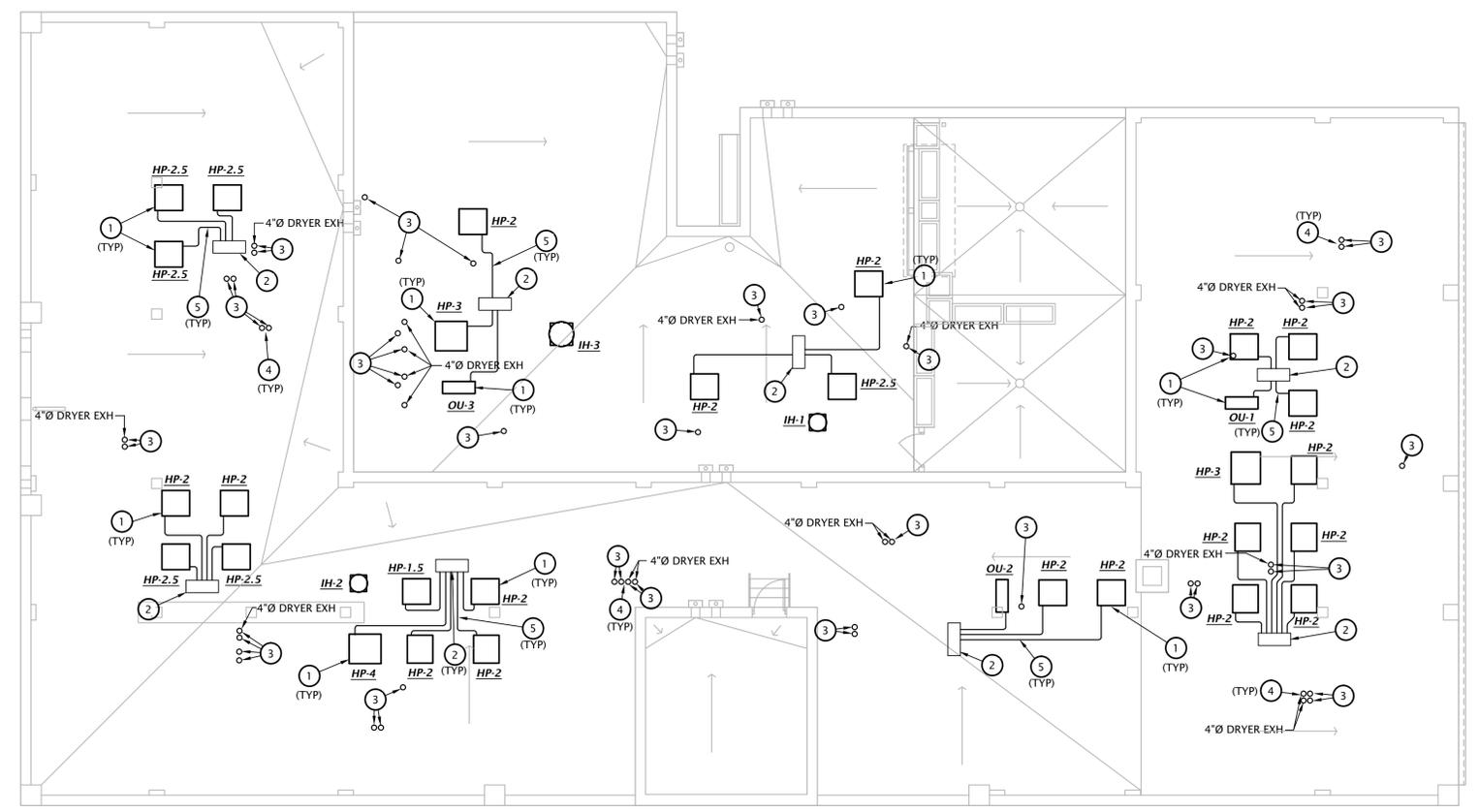
IST Consulting Engineers, PA
 MANHATTAN 4800 Van Dyke Plaza, Suite 201
 WICHITA 125 S. Washington, Suite 150
 Manhattan, KS 66503
 Wichita, Kansas 67202
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MECHANICAL NOTES

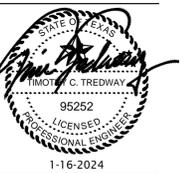
1. MOUNT HEAT PUMP ON METAL SUPPORT FRAME. COORDINATE REQUIREMENTS STRUCTURAL ENGINEER AND G.C.
2. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO INDOOR UNIT BELOW. PROVIDE ROOF CURB WITH PIPING PENETRATION ASSEMBLY EQUAL TO ALTA PRODUCTS SIGRIST PIPE CHASE HOUSING. PROVIDE WITH EXIT SEALS FOR REFRIGERANT PIPING AND ELECTRICAL CONDUIT FOR EACH HEAT PUMP AND ONE ADDITIONAL SPARE EXIT SEAL. FIELD LOCATE PIPE CHASE LOCATIONS AND COORDINATE WITH EXISTING CONDITIONS AND OTHER TRADES. COORDINATE CURB REQUIREMENTS WITH G.C.
3. PROVIDE PIPE CURB EQUAL TO PATE AT DUCT PENETRATIONS OF ROOF. COORDINATE REQUIREMENTS WITH G.C. DO NOT USE PITCH POCKETS. TERMINATE WITH GOOSE NECK, SEE DETAIL 1-M6.3 FOR MORE INFORMATION.
4. PROVIDE PIPE CURB FOR MULTIPLE EXHAUST TERMINATIONS ON ROOF WHERE PENETRATIONS ARE GROUPED TOGETHER.
5. SEE DETAIL 2-M6.3 FOR REFRIGERANT PIPING ROUTED ALONG ROOF.

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ROOSEVELT LOFTS
 HISTORIC REHABILITATION - APARTMENTS
 SAN ANGELO, TEXAS



1 ROOF HVAC PLAN
 1/8" = 1'-0"



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NOTES:

- SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON SHEET M6.1 FOR ADDITIONAL INFORMATION.
- PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALL AS INDICATED ON PLANS.
- WHERE PIPING PENETRATES FIRE RATED ASSEMBLIES, INSTALL PER ARCH. DETAILS.

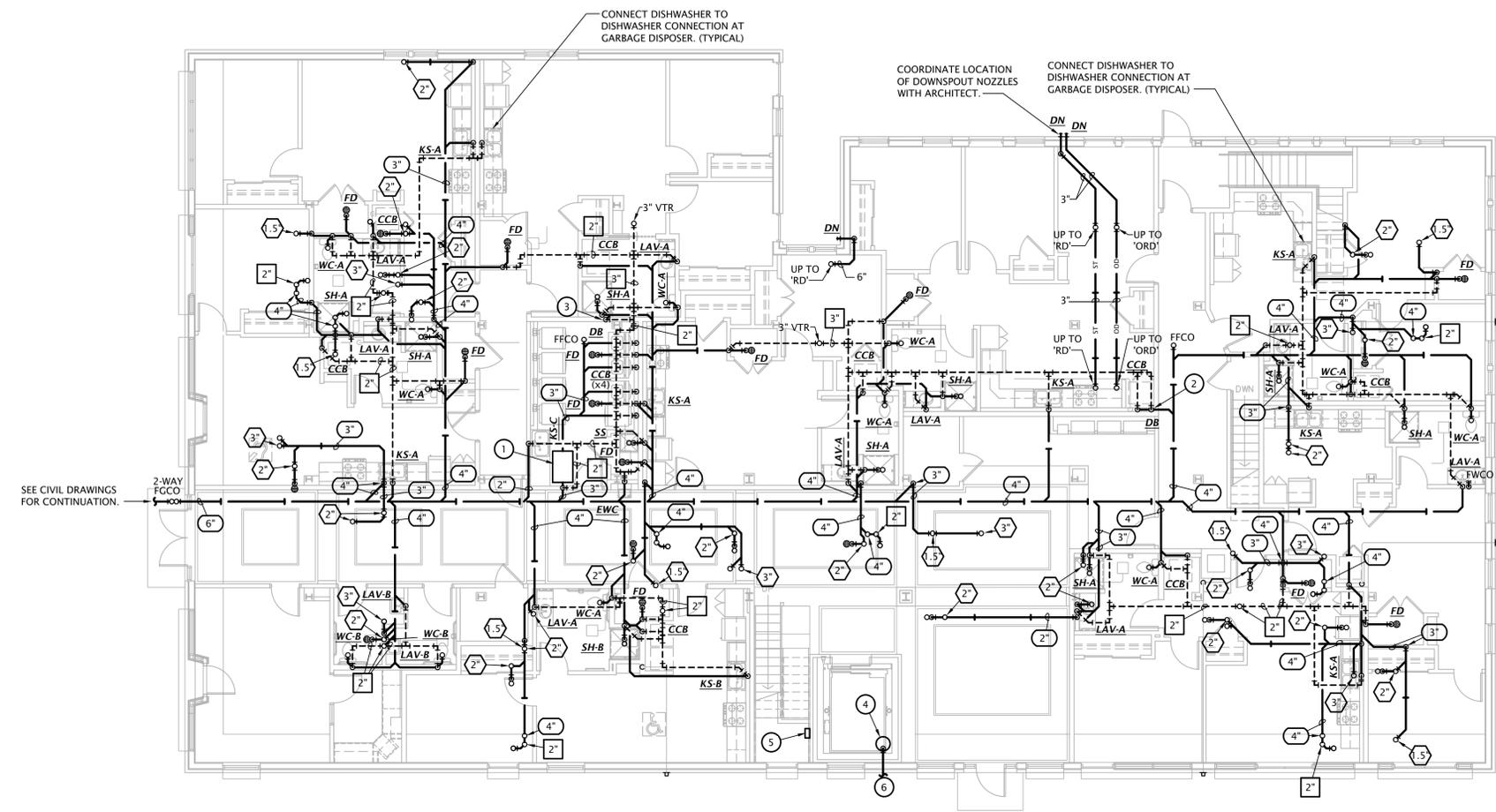
PLUMBING SIZING SYMBOLS

○ ^x	DRAIN (x = SIZE)
□ ^x	VENT (x = SIZE)
◇ ^x	WASTE STACK VENT (x = SIZE)

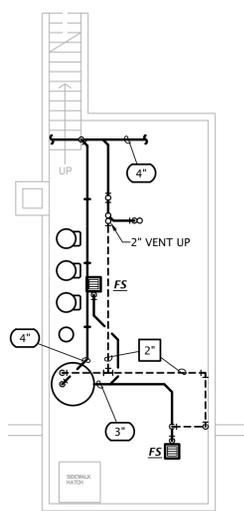
WASTE STACK VENT NOTE:
 ALL OFFSETS ARE PROHIBITED BETWEEN LOWEST AND HIGHEST FIXTURE DRAIN CONNECTION TO WASTE STACK VENT (IPC 913.2)

WASTE AND VENT NOTES BY SYMBOL

- PROVIDE LINT INTERCEPTOR EQUAL TO SMITH MFG. CO. 8910-50, RATED FOR 50 GPM FLOW RATE, PRIMARY AND SECONDARY LINT SCREENS, SECURED AND GASKETED STEEL COVER, 3" INLET AND OUTLET. PROVIDE WITH EXTENSIONS AS REQUIRED.
- PROVIDE DRAIN BOX IN LAUNDRY CLOSET FOR INDIRECT CONNECTION OF CONDENSATE DRAIN FROM INDOOR UNIT LOCATED IN HALLWAY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C.
- PROVIDE DRAIN BOX IN WALL OF LAUNDRY ROOM FOR INDIRECT CONNECTION OF CONDENSATE DRAIN FROM INDOOR UNIT LOCATED IN HALLWAY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH M.C.
- ELEVATOR SUMP PUMP. SEE DETAIL 3:M6.3.
- ELEVATOR SUMP PUMP CONTROL PANEL. COORDINATE WITH E.C.
- EXTEND ELEVATOR SUMP PUMP DISCHARGE TO DAYLIGHT. COORDINATE WITH CIVIL ENGINEER.



1 FIRST FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"



1 BASEMENT WASTE AND VENT PLAN
 1/8" = 1'-0"



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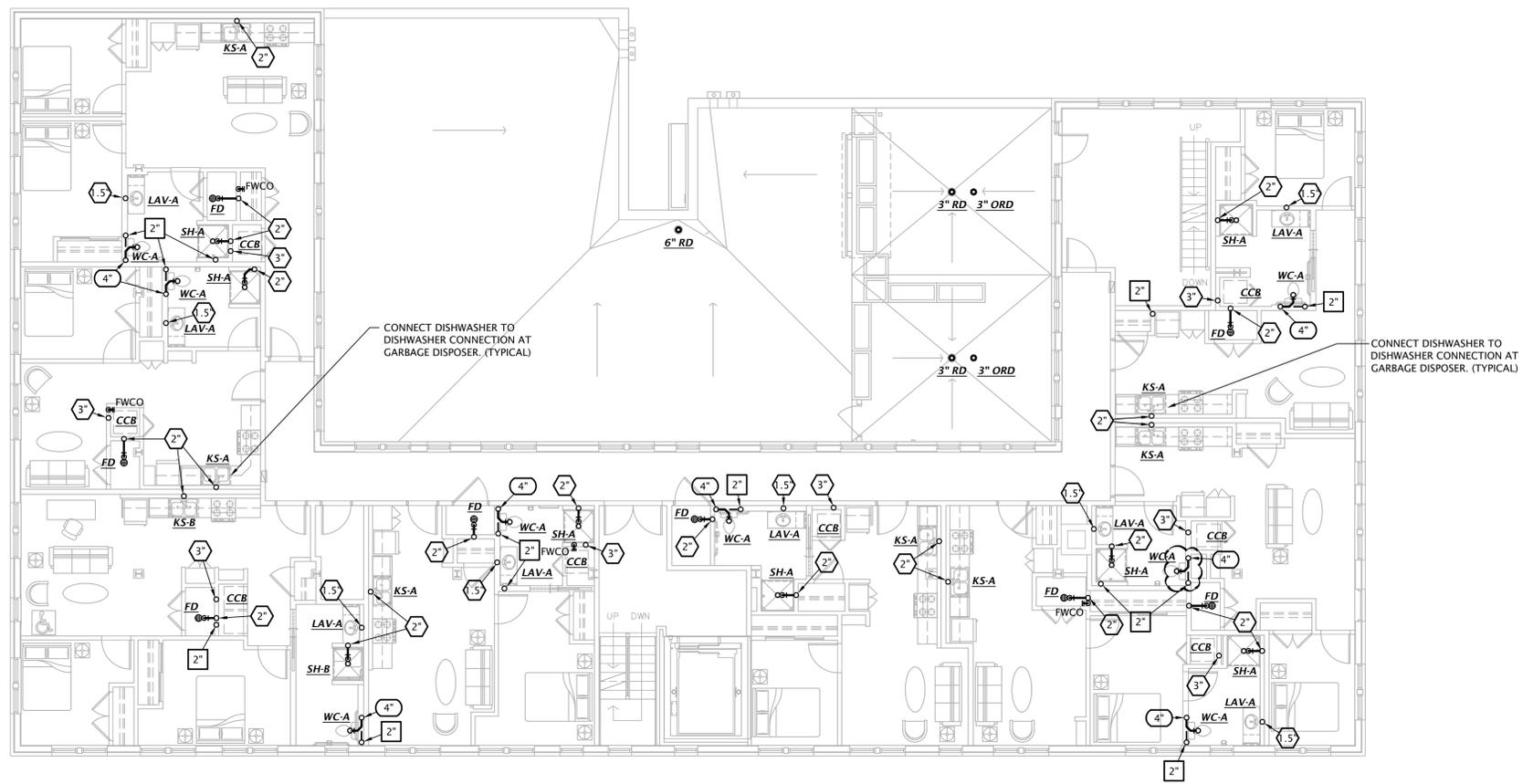
NOTES:

- SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON SHEET M6.1 FOR ADDITIONAL INFORMATION.
- PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALL AS INDICATED ON PLANS.
- WHERE PIPING PENETRATES FIRE RATED ASSEMBLIES, INSTALL PER ARCH. DETAILS.

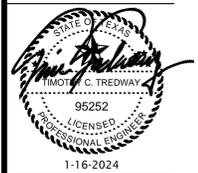
PLUMBING SIZING SYMBOLS

⊖ ^x	DRAIN (x = SIZE)
⊠ ^x	VENT (x = SIZE)
⊞ ^x	WASTE STACK VENT (x = SIZE)

WASTE STACK VENT NOTE:
 ALL OFFSETS ARE PROHIBITED BETWEEN LOWEST AND HIGHEST FIXTURE DRAIN CONNECTION TO WASTE STACK VENT (IPC 913.2)



1 SECOND FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"



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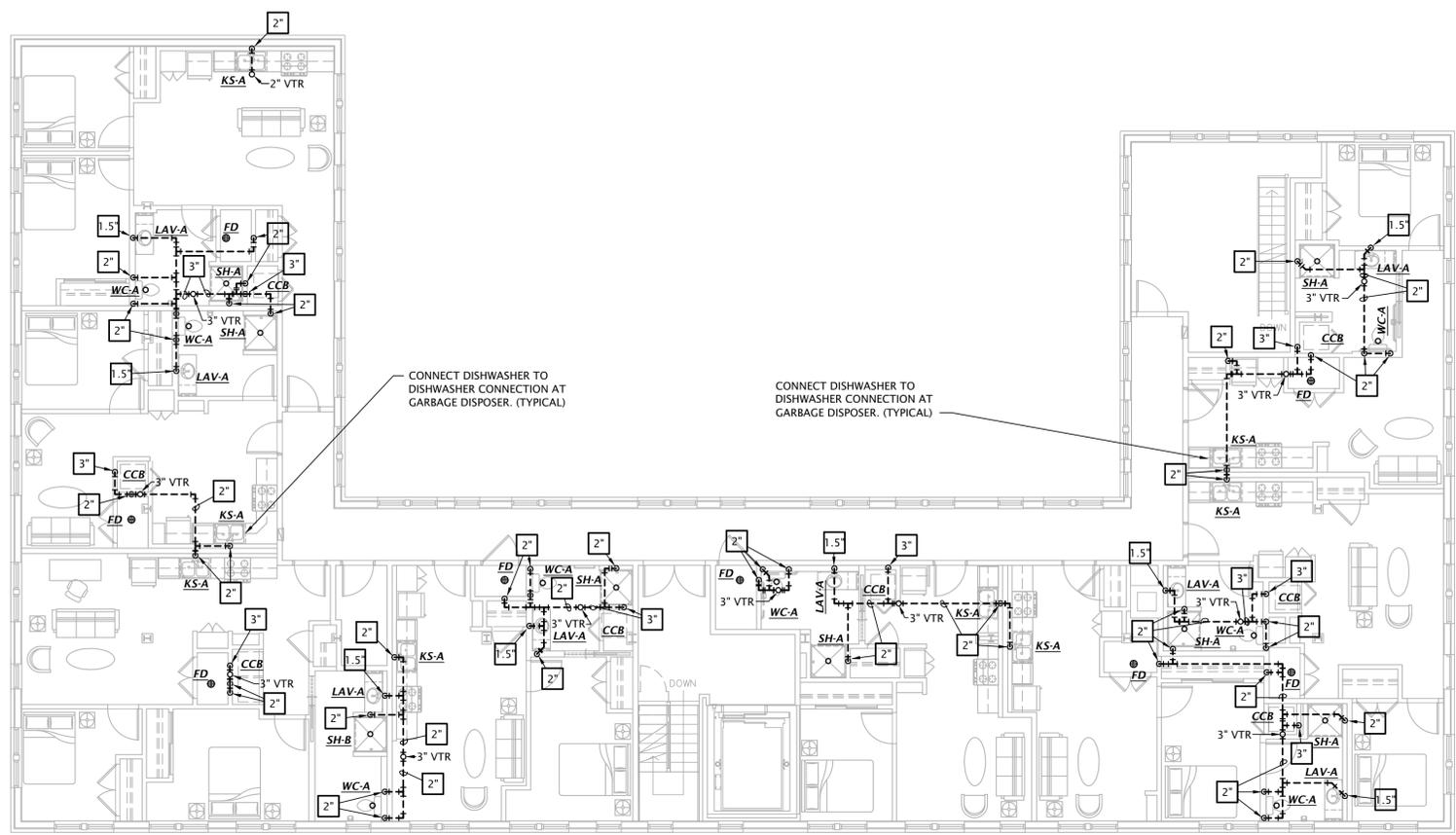


- NOTES:**
- SEE ROUGH-IN REQUIREMENTS IN PLUMBING SCHEDULE ON SHEET M6.1 FOR ADDITIONAL INFORMATION.
 - PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALL AS INDICATED ON PLANS.
 - WHERE PIPING PENETRATES FIRE RATED ASSEMBLIES, INSTALL PER ARCH. DETAILS.

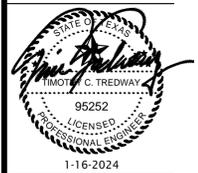
PLUMBING SIZING SYMBOLS

⊘ ^{x"}	DRAIN (X = SIZE)
⊠ ^{x"}	VENT (X = SIZE)
⊞ ^{x"}	WASTE STACK VENT (X = SIZE)

WASTE STACK VENT NOTE:
 ALL OFFSETS ARE PROHIBITED BETWEEN LOWEST AND HIGHEST FIXTURE DRAIN CONNECTION TO WASTE STACK VENT (IPC 913.2)



1 THIRD FLOOR WASTE AND VENT PLAN
 1/8" = 1'-0"



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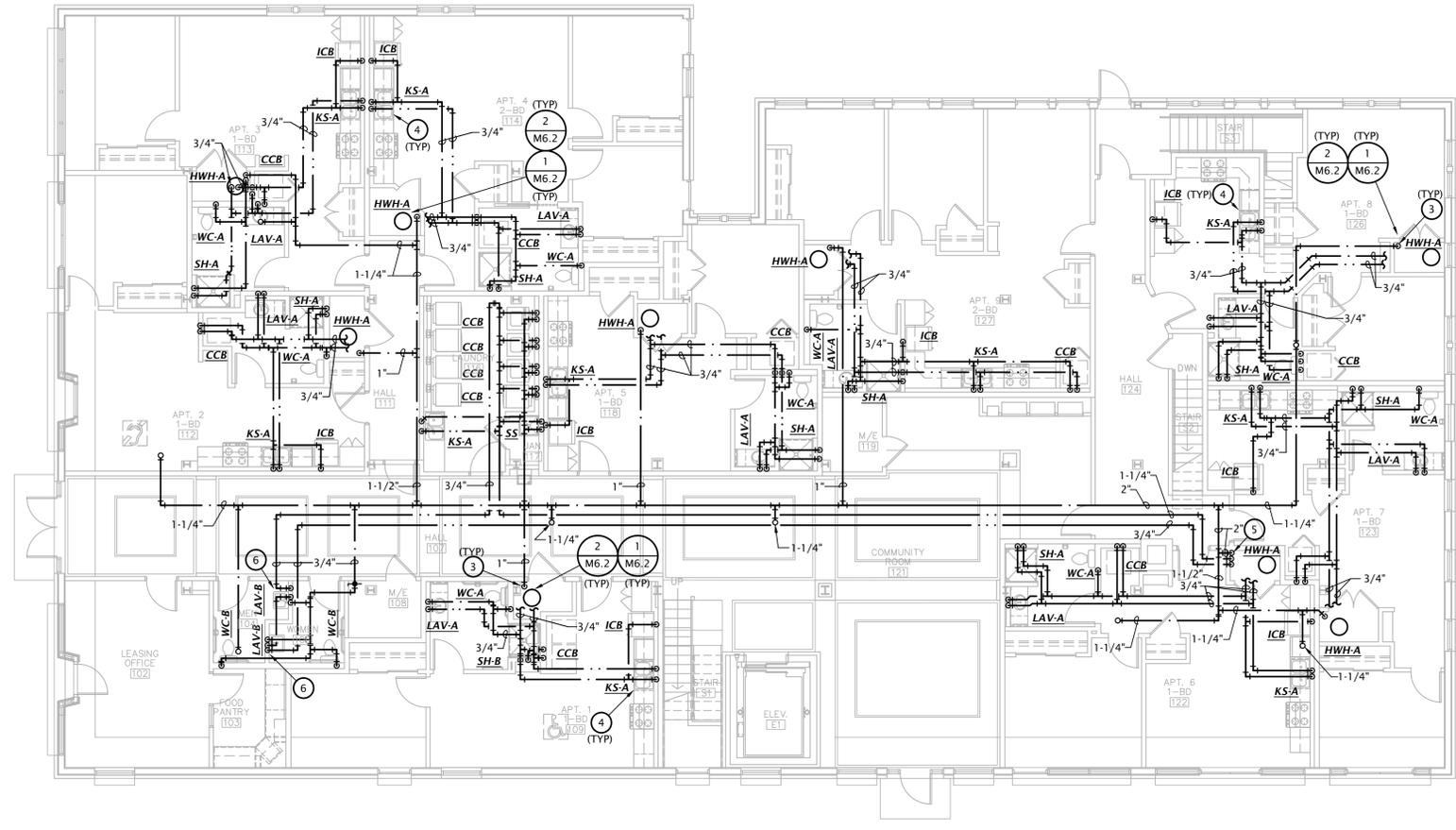
COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL/SIZE	
	Cross-linked polyethylene (PEX)	Polypropylene (PP)
1/2"	3/4"	1/2"
3/4"	1"	1"
1"		1-1/4"
1-1/4"		1-1/2"
1-1/2"		2"
2"		2-1/2"
2-1/2"		3"
3"		3-1/2"

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.

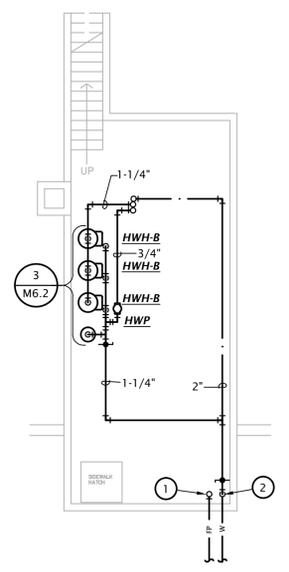
- NOTES:
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
 - COORDINATE INSTALLATION OF PIPING IN MECHANICAL CLOSET W/ M.C. & E.C.
 - SEE PLUMBING FIXTURE SCHEDULE ON SHEET P6.1 FOR FIXTURE ROUGH-IN INFORMATION.
 - INSULATE ALL HW PIPING PER SPECIFICATIONS.

DOMESTIC WATER PLAN NOTES BY SYMBOL

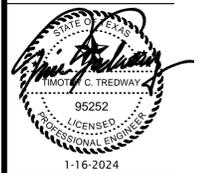
1. FIRE PROTECTION SERVICE ENTRANCE. INSTALL IN ACCORDANCE WITH NFPA 13. COORDINATE LOCATION OF ALL VALVES AND APPURTENANCES WITH AFJ.
2. PROVIDE SHUT-OFF VALVE AT WATER SERVICE ENTRANCE WITH PRESSURE REDUCING VALVE SET TO 80 PSI IF REQUIRED. COORDINATE REQUIREMENTS WITH CITY OF SAN ANGELO.
3. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE TYPICAL APARTMENT RISER DIAGRAM ON SHEET M6.2 FOR ADDITIONAL INFO.
4. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINERY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.
5. ROUTE 2" CW, 1-1/4" HW, AND 3/4" HW RECIRC. DOWN TO BASEMENT.
6. HOT WATER RECIRC LOOP SHALL DROP IN WALL TO LIMIT HOT WATER BRANCH TO PUBLIC LAVATORY TO 2 FT MAX.



1 FIRST FLOOR DOMESTIC WATER PLAN
 1/8" = 1'-0"



2 BASEMENT DOMESTIC WATER PLAN
 1/8" = 1'-0"



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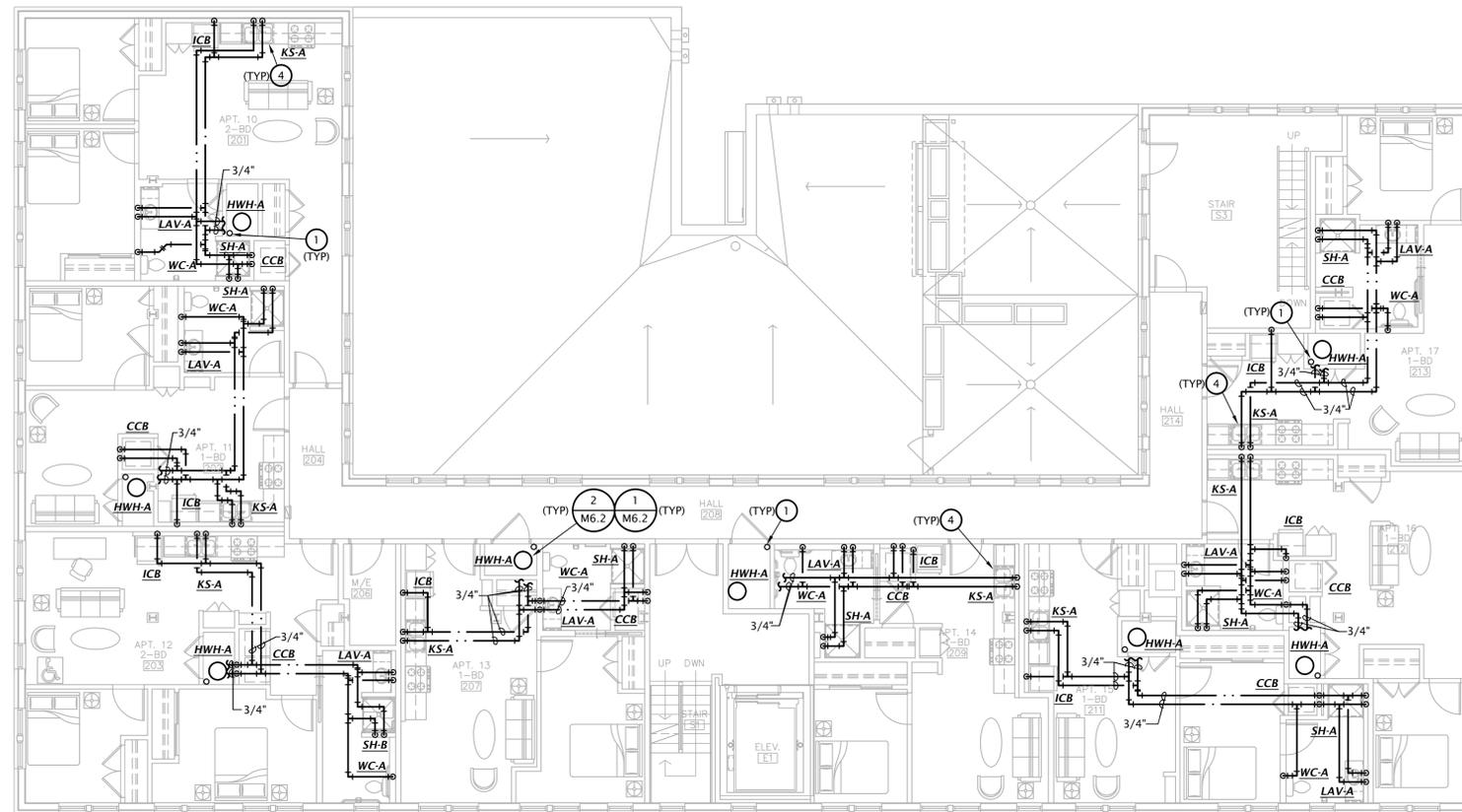
COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL/SIZE	
	Cross-linked polyethylene (PEX)	Polypropylene (PP)
1/2"	3/4"	1/2"
3/4"	1"	1"
1"		1-1/4"
1-1/4"		1-1/2"
1-1/2"		2"
2"		2-1/2"
2-1/2"		3"
3"		3-1/2"

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.

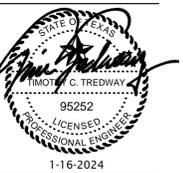
- NOTES:
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
 - COORDINATE INSTALLATION OF PIPING IN MECHANICAL CLOSET W/ M.C. & E.C.
 - SEE PLUMBING FIXTURE SCHEDULE ON SHEET P6.1 FOR FIXTURE ROUGH-IN INFORMATION.
 - INSULATE ALL HW PIPING PER SPECIFICATIONS.

DOMESTIC WATER PLAN NOTES BY SYMBOL

1. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE TYPICAL APARTMENT DOMESTIC WATER RISER DIAGRAM ON SHEET M6.2 FOR ADDITIONAL INFO.
2. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETS, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.



1 SECOND FLOOR DOMESTIC WATER PLAN
 1/8" = 1'-0"



REVISION:	
DATE:	1-16-2024
JOB:	21-3166
SHEET NO.:	

M1.9



BP24-0000249
 REVIEWED for code
 compliance
 4/15/2024

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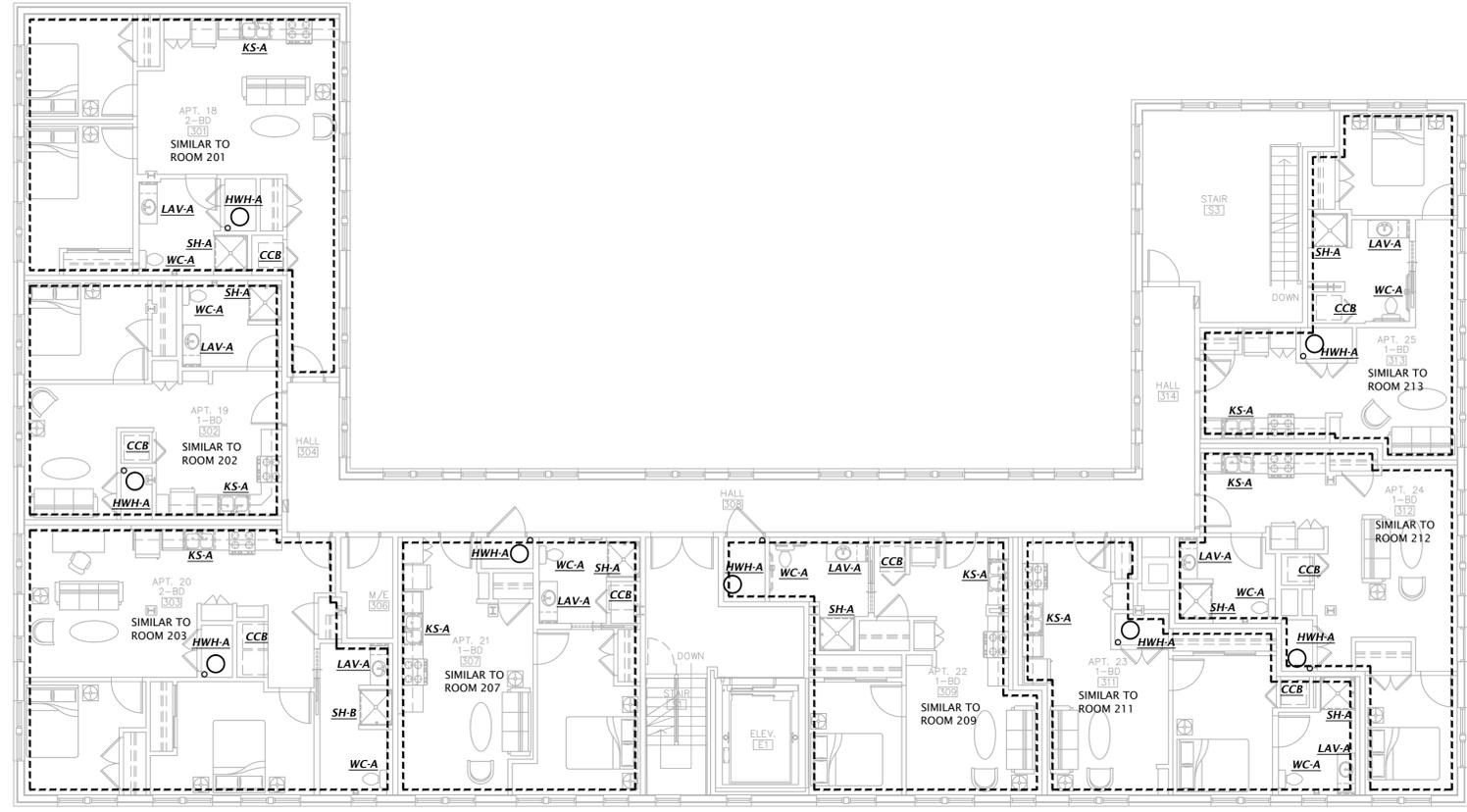
COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL/SIZE	
	Cross-linked polyethylene (PEX)	Polypropylene (PP)
1/2"	3/4"	1/2"
3/4"	1"	1"
1"		1-1/4"
1-1/4"		1-1/2"
1-1/2"		2"
2"		2-1/2"
2-1/2"		3"
3"		3-1/2"

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.

- NOTES:**
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS.
 - COORDINATE INSTALLATION OF PIPING IN MECHANICAL CLOSET W/ M.C. & E.C.
 - SEE PLUMBING FIXTURE SCHEDULE ON SHEET P6.1 FOR FIXTURE ROUGH-IN INFORMATION.
 - INSULATE ALL HW PIPING PER SPECIFICATIONS.

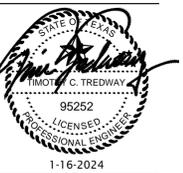
DOMESTIC WATER PLAN NOTES BY SYMBOL

1. PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE TYPICAL APARTMENT DOMESTIC WATER RISER DIAGRAM ON SHEET M6.2 FOR ADDITIONAL INFO.
2. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER. ROUTE PIPING ALONG BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED.



1 THIRD FLOOR DOMESTIC WATER PLAN
 1/8" = 1'-0"

ROOSEVELT LOFTS
 HISTORIC REHABILITATION - APARTMENTS
 SAN ANGELO, TEXAS



REVISION: _____
 DATE: 1-16-2024
 JOB: 21-3166
 SHEET NO.:

M1.10

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MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity			Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Voltage / Phase	Electrical Code
								Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Capacity (BTU/h)				
3rd Floor Stair	IU-1-1	NTXWST09B112AA	Wall -Mounted	8,000	8,300	80.0/67.0	70	7,158.3	7,146.3	7,280.3	61.4	88.6	208/230V/1-phase	Reviewed by [Signature]
2nd Floor Stair	IU-1-2	NTXWST09B112AA	Wall -Mounted	8,000	8,300	80.0/67.0	70	7,111.8	7,111.8	7,266.9	61.5	88.6	208/230V/1-phase	Reviewed by [Signature]
1st Floor Hall	IU-1-3	MSZ-EF09NAW-U2	Wall -Mounted	8,000	8,300	80.0/67.0	70	7,041.9	7,041.9	7,246.8	63.0	87.2	208/230V/1-phase	Reviewed by [Signature]
3rd Elevator Lobby	IU-2	NTXWMT09A112AA	Wall -Mounted	9,000	10,900	80.0/67.0	70	8,130.9	7,071.4	6,931.7	62.3	87.0	208/230V/1-phase	Reviewed by [Signature]
Laundry	IU-3	NTXWMT12A112AA	Wall -Mounted	12,000	12,200	80.0/67.0	70	10,841.2	8,814.5	8,472.1	57.9	90.8	208/230V/1-phase	Reviewed by [Signature]

MITSUBISHI ELECTRIC TRANE HVAC US: OUTDOOR UNIT SCHEDULE

Tag Reference	Model Number	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER [SEER]	Heating COP @ 47°F [HSPF]	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Electrical-Per Module			
										208/230V or [460V]	MCA 208/230	RFS	MOCP
OU-1	NTXMPH24A132CA	22,000	25,000	11.75 [17.25]	[9.5]	101.0	16.5	21,312.0	21,794.1	208/230V / 1-phase	31.5	40	40
OU-2	NTXSMT09A112AB	9,000	10,900	12 [18]	3.549564 [10]	101.0	16.5	8,130.9	6,931.7	208/230V / 1-phase	9	15	15
OU-3	NTXSMT12A112AB	12,000	12,200	9.9 [18]	3.611733 [10]	101.0	16.5	10,841.2	8,472.1	208/230V / 1-phase	9	15	15

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	DESCRIPTION	TRIM		ROUGH-IN SIZES				NOTES
			MANUFACTURER	DESCRIPTION	WASTE	VENT	CW	HW	
WC-A	KOHLER	Model 3999-0 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	#K-4636-0 white, closed front plastic seat with slow closing lid.	4"	2"	1/2"	---	1
WC-B	KOHLER	Model 3999-0 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	#4650-0 Lustra white, open front, plastic seat with cover	4"	2"	1/2"	---	1
LAV-A	AMERICAN STANDARD	Model 0610.000 under counter mounted lavatory, white vitreous china, 20-1/4"W x 16"	KOHLER	Model 15182-4RA single handle faucet. Provide pop-up drain.	2"	1-1/2"	1/2"	1/2"	1,2,4
LAV-B	KOHLER	Model K-2035-1 wall hung, white vitreous china, 22"W x 18", single hole faucet.	DELTA	Model 597LF-PNMPU single handle faucet, with polished nickel finish. Provide with pop-up drain.	2"	1-1/2"	1/2"	1/2"	1,2,3
KS-A	JUST	Model DL-ADA-2233-A-GR two compartment 18 GA stainless steel sink, self rimming, 14"x16"x5"D inside, fully undercoated, faucet holes as req., and drain holes center rear.	IN-SINK-ERATOR	Model 400-HDF single handle kitchen sink faucet with hose spray attachment. Chrome finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	1,3,2,4
KS-B	BLANCO	Model Liven Silgranit single compartment granite composite sink, 22-1/4"x16-15/16"x12"D inside, faucet holes as req., metallic gray finish. Coordinate mounting type with Arch.	MOEN	Model 87194 single handle high arc kitchen sink faucet with spring pulldown sprayer. Stainless finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	2
SH-A	AQUARIUS	Model "G-3600-BF-1S" reinforced fiberglass ADA shower, 36"W x36"D x77"H, with integral soap/toiletry shelves, integral seat and grab bars in accordance with ADA requirements. Right or left hand rough-in as required, center drain, white finish.	KOHLER	#K-304 pressure balancing valve with integral temperature limits and stops, #K-TS10584-4 valve trim, #K-355 wall supply elbow, #K-9514 60" hose, #K-10549 hand shower, and #K-8524/K-349 slide bar. Entire assembly shall have rubbed bronze finish.	2"	1-1/2"	1/2"	1/2"	1
SH-B	AQUARIUS	Model "G-3600-BF-1S" reinforced fiberglass ADA shower, 36"W x36"D x77"H, with integral soap/toiletry shelves, integral seat and grab bars in accordance with ADA requirements. Right or left hand rough-in as required, center drain, white finish.	KOHLER	#K-304 pressure balancing valve with integral temperature limits and stops, #K-TS10584-4 valve trim, #K-355 wall supply elbow, #K-9514 60" hose, #K-10549 hand shower, and #K-8524/K-349 slide bar. Entire assembly shall have rubbed bronze finish.	2"	1-1/2"	1/2"	1/2"	1
SS	FIAT	Model MSB-2424 one piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall guards.	DELTA	Model 28T9 faucet with hose thread outlet, vacuum breaker, pail hook, wall brace, metal lever handles.	3"	1-1/2"	3/4"	3/4"	4
EWC	ELKAY	Model EZSWSLK ADA compliant, self-contained water cooler with stainless steel basin, front push bar actuator, bottle filler, lead-free cooling system capable of cooling 8.0 GPH, 120 volts.			2"	1-1/2"	1/2"	---	
WH	WOODFORD	Model 25 frost proof wall hydrant with anti-siphon vacuum breaker, metal handle.			---	---	3/4"	---	
RH	WOODFORD	Model RHY2-MS frost proof roof hydrant with ASSE 1052 double check backflow preventer that is field testable, integral vent that allows drainage with 1/8" drain hole drilled and tapped in body of hydrant. Provide with manufacturer's roof mounting system consisting of cast iron hydrant support, under deck flange, well seal, EPDM boot, and shims as required. Coordinate installation with G.C..			---	---	3/4"	---	
CCB	WATER TITE	Model W4700 recessed washing machine box with 2"PVC/ABS drain coupling and knockout test cap. Two, 1/4 turn adaptor ball valves, sweat connection.			2"	2"	1/2"	1/2"	
ICB	WATER TITE	Model W9700 ice maker connection box with 1/4 turn ball valve and 1/2" sweat copper connection.			---	---	1/2"	---	
DB	SOUX CHIEF	Model 696-3 drainage box with 2" drain connection and solid cover. Provide with Proset Trapguard trap protection device.			2"	---	---	---	
FD	SIOUX CHIEF	Series 833 adjustable floor drain with nickel bronze strainer. Provide Proset Trapguard trap protection device.			2"	---	---	---	
FS	WADE	Model 9140 floor sink with 8" deep body, enameled interior, sediment bucket, nickel bronze trim and grate with openings as required.			3"	1-1/2"	---	---	
RD	WADE	Model 3000 cast iron side outlet body roof drain with flange, flashing ring with gravel stop, underdeck clamp and cast iron dome strainer.							
ORD	WADE	Model 3000 cast iron side outlet body overflow roof drain with 2" cast iron dam/ flashing ring, flange, underdeck clamp and cast iron dome strainer.							
DN	WADE	Model 3940 nickel bronze downspout nozzle with threaded outlet and flange to secure nozzle to wall.							
HWH-A	A.O. SMITH	Model ENT-40, 40 gallon electric water heater, (2) non simultaneous 4500 watts, 208 volt / 1-phase heating elements, 21 GPH recovery @ 90°F temp rise. Minimum 0.95 Energy Factor. Supplied with temperature & pressure relief valve and brass drain valve.							5
HWH-B	RHEEM	Model ELD52-TB, 50 gallon electric water heater, (2) 4500 watt, 208 volt / 3-phase heating elements, 41 GPH recovery @ 90°F temp rise. Supplied with temperature & pressure relief valve and brass drain valve.							
HWP	BELL & GOSSETT	Model NBF-33 circulation pump, bronze body, 10 GPM @ 10' head, 120 VAC. Provide clamp-on aquastat for pump control.							

GENERAL:

- Provide fixtures with all trim necessary for complete installation

NOTES:

1. Fixture and installation to meet accessibility requirements of the Fair Housing Act.
2. Provide Dearborn supplies with stops and escutcheon plate, 1-1/4" cast brass p-trap.
3. Insulate water and waste piping below lavatory. Utilize insulation kit equivalent to LayGuard by Truebro.
4. Trim shall be provided with polished chrome finish.
5. Mount water heater on stand equivalent to Oatey water heater stand.

BLOWER COIL SCHEDULE

MARK	MANUF.	MODEL	FAN			HEATING KW	V/Ph	MOTOR FLA	MCA	MOCP	NOTES
			CFM	ESP	SPEED						
BC-1.5	TRANE	TEM4A0B18	600	0.6	HIGH	5.8	208/1	1.2	36	40	
BC-2	TRANE	TEM4A0B31	800	0.6	HIGH	5.8	208/1	4.1	42	45	
BC-2.5a	TRANE	TEM4A0B36	1000	0.6	HIGH	7.2	208/1	2.0	46	50	
BC-2.5b	TRANE	TEM4A0B36	1000	0.6	HIGH	7.2/3.6	208/1	2.0	46/22	50/25	1
BC-3	TRANE	TEM4A0C42	1200	0.6	MED	7.2	208/1	4.1	48	50	
BC-4	TRANE	TEM4A0C49	1380	0.6	HIGH	7.2/7.2	208/1	6.0	51/43	60/45	1

General Notes:

- Single point connection required, coordinate the exact electrical requirements of equipment provided with E.C., UNO
- Electric heater shall not operate simultaneously with heat pump. Electric heater shall be used as back-up heat only.

Notes:

1. Blower coil heat has two circuits, first circuit indicated includes fan motor.

HEAT PUMP SCHEDULE

MARK	MANUF.	MODEL	NOMINAL TONS	COOLING CAPACITY					HEATING CAPACITY			ELECTRICAL			
				OA DB	ENT AIR DB/WB	SENS MBH	TOT MBH	MIN SEER2	OA DB	ENT AIR DB	TOT MBH	MIN HSPF2	MCA	MOCP	V/PH
HP-1.5	TRANE	4TWR4018	1.5	105	75/63	10.5	13.1	14.3	47	70	18.9	7.5	12	20	208/1
HP-2	TRANE	4TWR4024	2	105	75/63	16.6	20.7	14.3	47	70	22.5	7.5	13	25	208/1
HP-2.5	TRANE	4TWR4030	2.5	105	75/63	20.0	25.1	14.3	47	70	27.7	7.5	17	25	208/1
HP-3	TRANE	4TWR4036	3	105	75/63	24.5	29.9	14.3	47	70	33.9	7.5	18	30	208/1
HP-4	TRANE	4TWR4048	4	105	75/63	32.1	41.7	14.3	47	70	45.3	7.5	24	40	208/1

Notes:

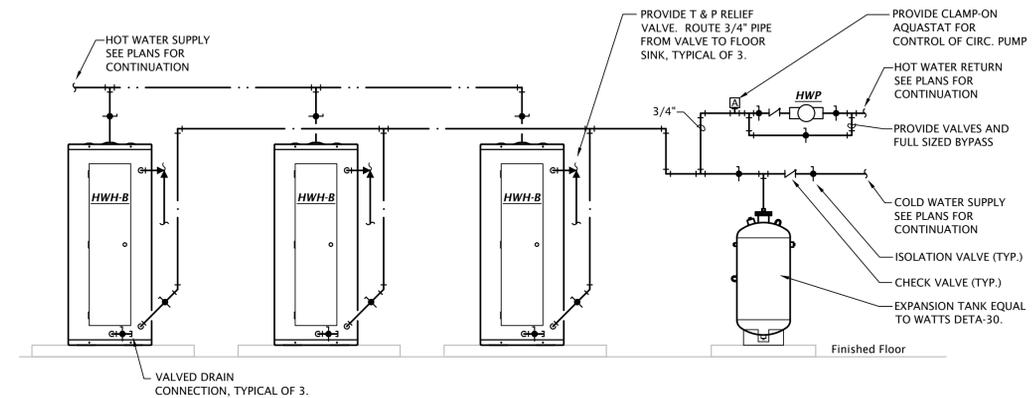
1. Refrigerant lines shall be field fabricated. Coordinate line sizing requirements with equipment manufacturer for length of run for each apartment. Provide suction accumulators, etc. as required.
2. Note not used
3. Provide 7-day programmable thermostat.
4. Provide with R140a refrigerant.
5. Provide 2 sets of MERV-7 filters.

ELECTRIC HEATER SCHEDULE

MARK	MANUF.	MODEL	MOUNTING	WATTS	VOLTAGE/PHASE	DESCRIPTION	NOTES
EWH-1,2,3	TRANE	UHWA	WALL	1,500	120/1	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 manufacturer's surface mounting adapter sleeve. Coordinate exact mounting requirements and locations with Arch. and rated construction.



COMMON AREA WATER HEATER PIPING DIAGRAM

NO SCALE

IST Consulting Engineers, PA
 MANHATTAN 4809 Van Duzee Plaza, Suite 201 Manhattan, KS 66503 785.587.8042
 WICHITA 125 S. Washington, Suite 150 Wichita, Kansas 67202 316.265.0696
 www.ISTengineers.com mail@ISTengineers.com
 Project 23061 January 2024

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 785.827.0386



ROOSEVELT LOFTS
 HISTORIC REHABILITATION - APARTMENTS
 SAN ANGELO, TEXAS



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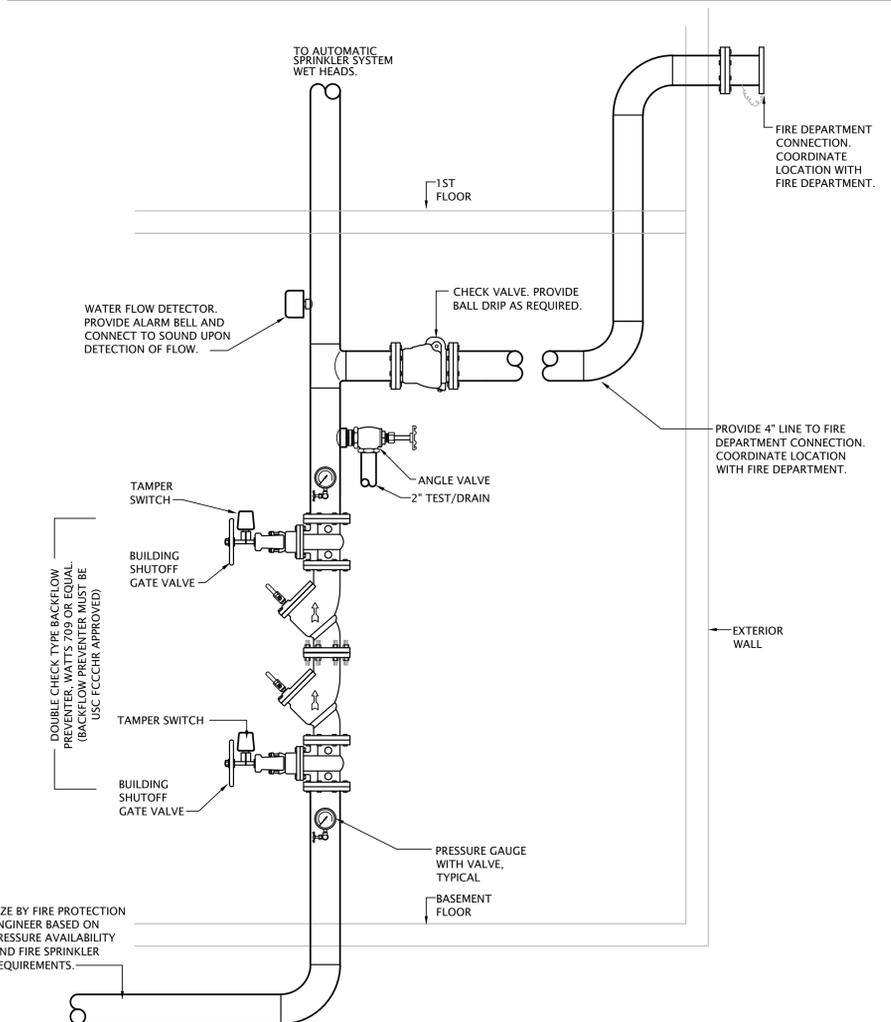
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AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	APPLICATION				FINISH	MOUNTING	DAMPER	DESCRIPTION	NOTES
			SUPPLY	RETURN	EXHAUST	TRANSFER					
SD-A	HART & COOLEY	684	•				WHITE	SURFACE	YES	12"x12" steel 4-way ceiling register with damper	1,2
SD-B	HART & COOLEY	684	•				WHITE	SURFACE	YES	10"x10" steel 4-way ceiling register with damper	1,2
SD-C	HART & COOLEY	684	•				WHITE	SURFACE	YES	8"x8" steel 4-way ceiling register with damper	1,2
SD-D	HART & COOLEY	684	•				WHITE	SURFACE	YES	6"x6" steel 4-way ceiling register with damper	1,2
SD-E	HART & COOLEY	618	•				WHITE	SURFACE	YES	Aluminum, straight blade vertical fin register with opposed blade damper	1
SD-F	HART & COOLEY	683	•				WHITE	SURFACE	YES	12"x12" steel 3-way ceiling register with damper	1,2
SD-G	PRICE	SPD	•				WHITE	SURFACE	YES	12"x12" steel square louvered diffuser, neck size as indicated on drawings	
SD-H	PRICE	LBMH-26C	•				MILL	FLOOR	YES	Heavy duty aluminum bar grille with 3/16" bars spaced at 7/16" with 15' deflection, size as indicated on drawings	1
RG-A	HART & COOLEY	650	•				WHITE	SURFACE	NO	Single deflection, steel, louvered face return grille, size as indicated on drawings	1
RG-B	PRICE	530	•				WHITE	SURFACE	NO	Steel louvered return grille, size as indicated on drawings	1
TG-A	HART & COOLEY	650		•			WHITE	SURFACE	NO	Single deflection, steel, louvered face return grill	1

- GENERAL NOTES:**
- Provide mounting frame as required for ceiling type.
 - Maximum NC shall be 25.
 - Paint objects visible through grilles with flat black paint.
 - Provide ceiling radiation damper for all devices located in a rated ceiling.
- NOTES:**
- Neck size shall be same as face.
 - Provide runout as indicated in tag on plans and transition to square neck or provide plenum and tap with runout.



3 FIRE PROTECTION RISER DIAGRAM
NO SCALE

CITY OF SAN ANGELO
DEPARTMENT OF PUBLIC WORKS & INSPECTION

GRAVITY ROOF HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP (" wg)	POWER	VOLTS/ PHASE	FINISH	SCREEN	DAMPER	SERVICE	DESCRIPTION	NOTES
IH-1,2	GREENHECK	GRSI-10	10"x10" DAMPER				GALVANIZED STEEL	BIRD	GRAVITY	INTAKE	GALVANIZED STEEL GRAVITY INTAKE HOOD	1
IH-3	GREENHECK	GRSI-16	16"x16" DAMPER	1.45			GALVANIZED STEEL	BIRD	120V	INTAKE	GALVANIZED STEEL GRAVITY INTAKE HOOD	1

NOTES:

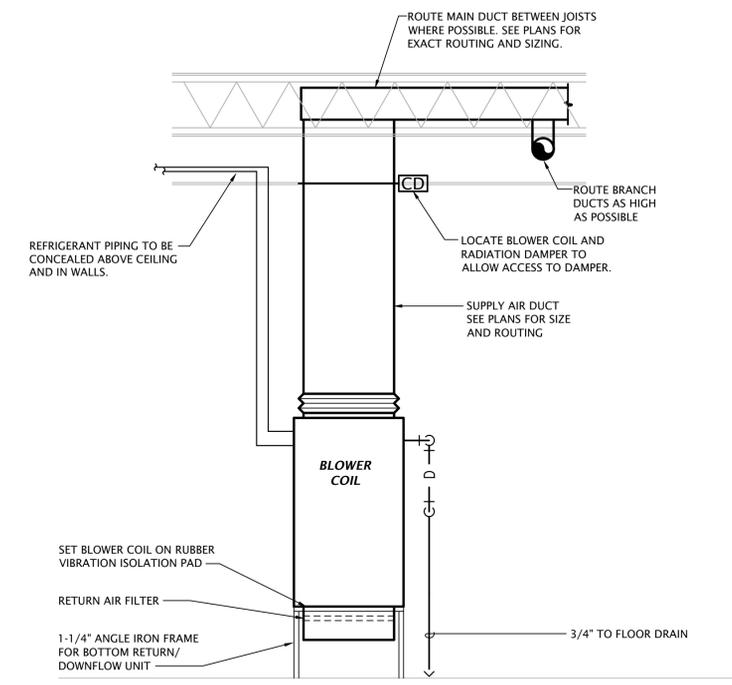
- Provide with roof curb compatible with roof slope and construction.

EXHAUST FAN SCHEDULE

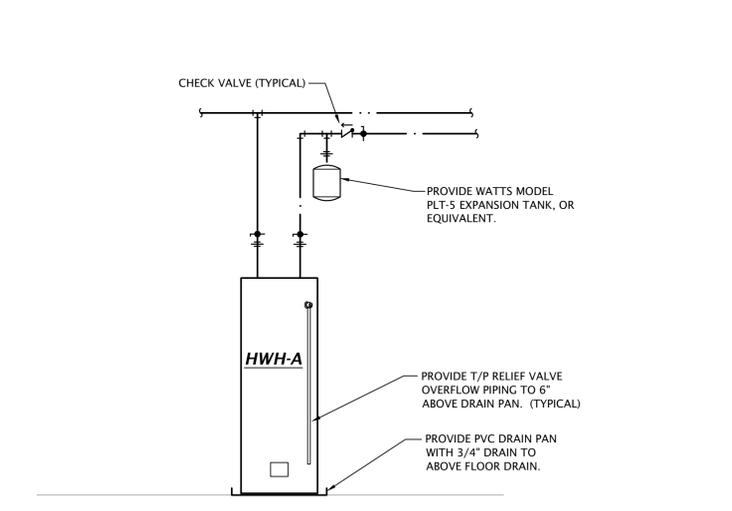
MARK	MANUFACTURER	MODEL	CFM	ESP (" wg)	POWER	VOLTS/ PHASE
EF-1	BROAN	XB80	80	0.25"	36 W	120 / 1
EF-2	BROAN	XB50	50	0.25"	5.1 W	120 / 1

NOTES:

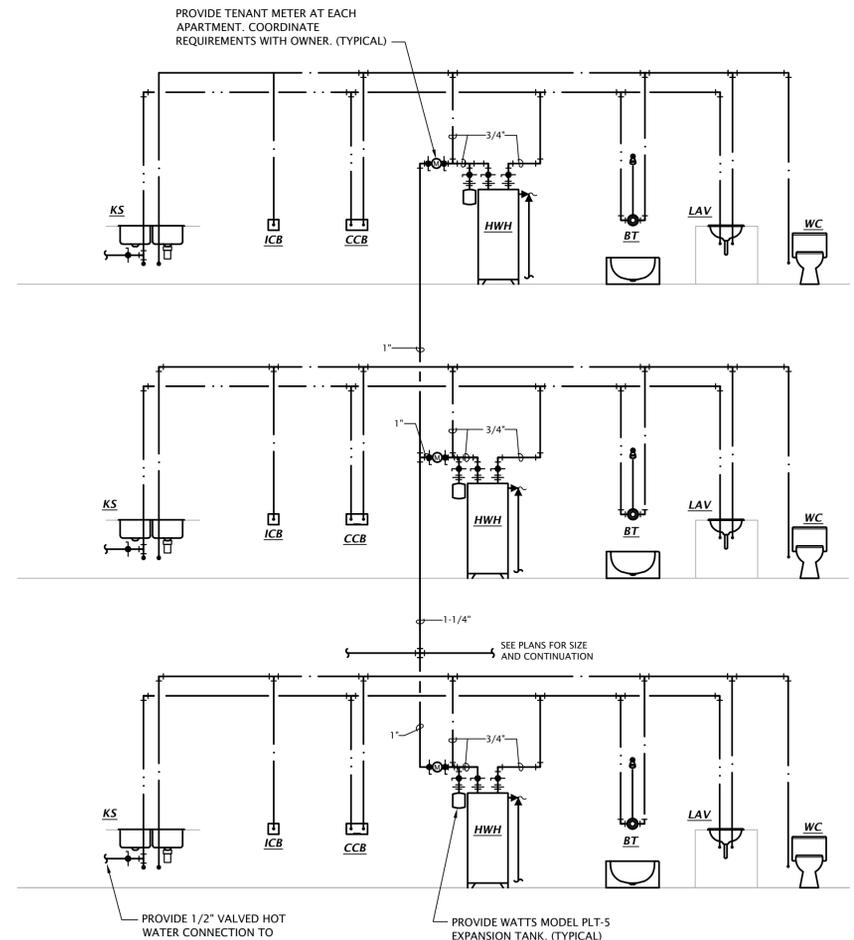
- Fixture shall be Energy Star listed.
- Fixture shall operate at <1 SONE
- Provide with integral disconnect.
- Provide manufacturer's wall cap or roof jack, see plans.
- Provide integral backdraft damper.
- Provide with manufacturer's ceiling radiation damper.



1 TYPICAL BLOWER COIL DETAIL
NO SCALE



2 APARTMENT WATER HEATER DETAIL
Not to Scale



4 TYPICAL APARTMENT DOMESTIC WATER RISER DIAGRAM
Not to Scale



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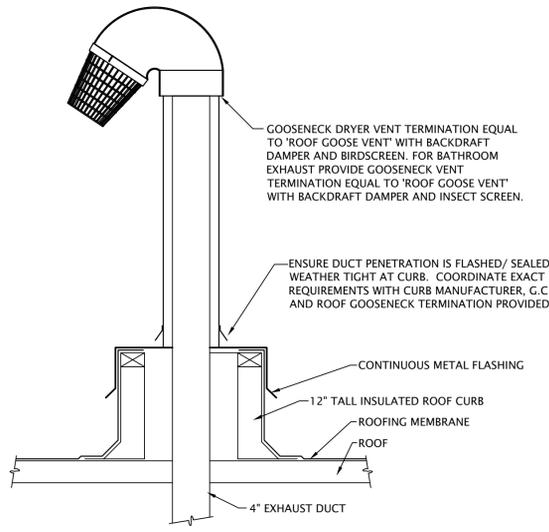
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compliance
4/15/2024

MECHANICAL SYMBOLS

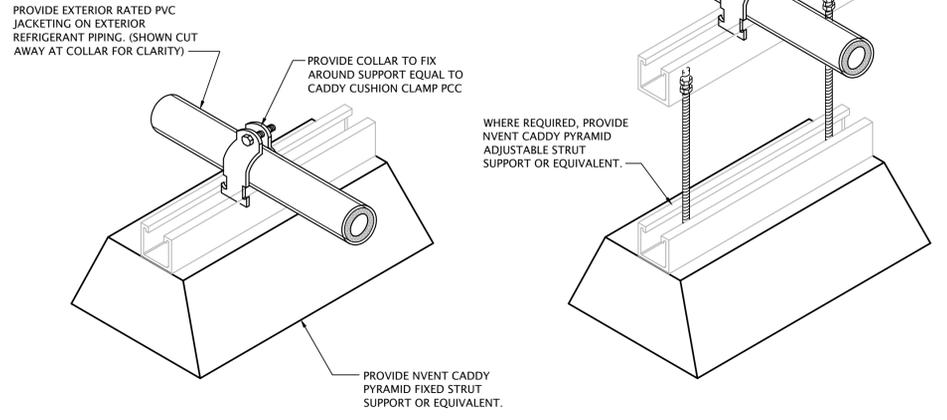
- ⊖ THERMOSTAT
- CONTROL CABLE, VERIFY TYPE WITH EQUIPMENT MANUFACTURER
- ☐ SQUARE SUPPLY DIFFUSER - TYPE AND AIRFLOW INDICATED
- ☐ SQUARE RETURN GRILLE - TYPE INDICATED
- ☐ WALL DIFFUSER
- ☐ GRILLE/DIFFUSER TAG
 TOP: DEVICE TAG (SEE SCHEDULE)
 MIDDLE: NECK SIZE
 BOTTOM: AIRFLOW
- MANUAL BALANCING DAMPER
- ☐ RECTANGULAR RETURN OR RELIEF AIR DUCT UP
- ☐ RECTANGULAR RETURN OR RELIEF AIR DUCT UP
- ☐ RECTANGULAR SUPPLY AIR DUCT UP
- ☐ RECTANGULAR SUPPLY AIR DUCT DOWN
- ☐ RECTANGULAR RETURN OR EXHAUST AIR DUCT DOWN
- ROUND DUCT UP
- ROUND DUCT DOWN
- ~ FLEXIBLE DUCTWORK - MAX 5'
- RIGID DUCT RUNOUT
- 90° ELBOW WITH TURNING VANES
- VERTICAL FIRE DAMPER
- ♀ PIPE TURNING UP
- ♂ PIPE TURNING DOWN
- 90° ELBOW
- 45° ELBOW
- TEE
- TEE UP
- TEE DOWN
- CONDENSATE DRAIN LINE
- SANITARY DRAIN BELOW GRADE
- STORM DRAIN BELOW GRADE
- OVERFLOW DRAIN BELOW GRADE
- SANITARY DRAIN ABOVE GRADE
- STORM DRAIN ABOVE GRADE
- OVERFLOW DRAIN ABOVE GRADE
- SANITARY VENT
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RECIRC
- W WATER SERVICE PIPING
- FP FIRE PROTECTION PIPING
- UNION
- BALL VALVE
- CHECK VALVE

SYMBOL MODIFICATION DESIGNATORS/ABBREVIATIONS

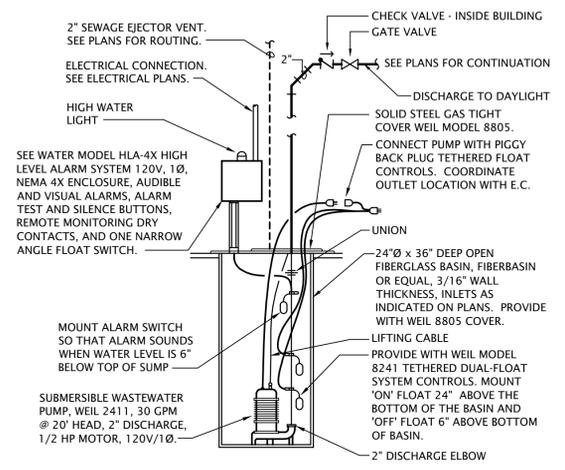
- OA OUTDOOR AIR
- RA RETURN AIR
- SA SUPPLY AIR
- MC MECHANICAL CONTRACTOR
- EC ELECTRICAL CONTRACTOR
- GC GENERAL CONTRACTOR
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BG BELOW GRADE
- FG FINISHED GRADE
- FFCO FINISH FLOOR CLEAN OUT
- FWCO FINISH WALL CLEAN OUT
- FGCO FINISH GRADE CLEAN OUT
- UNO UNLESS NOTED OTHERWISE



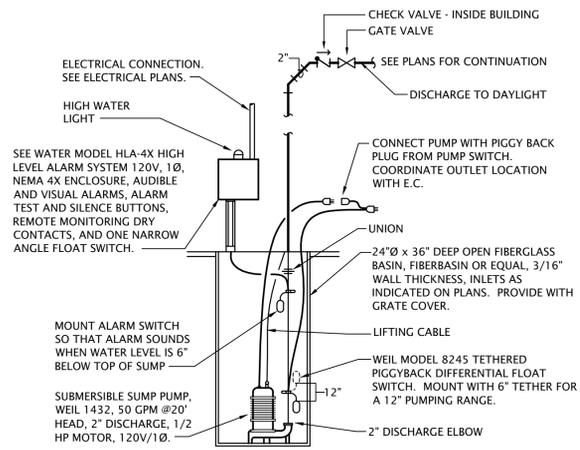
2 DUCT THROUGH ROOF DETAIL
NO SCALE



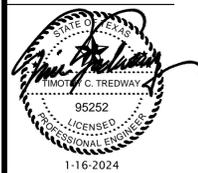
1 REFRIGERANT LINESET ROOF SUPPORT DETAIL
NO SCALE



4 SEWAGE EJECTOR DETAIL
NO SCALE



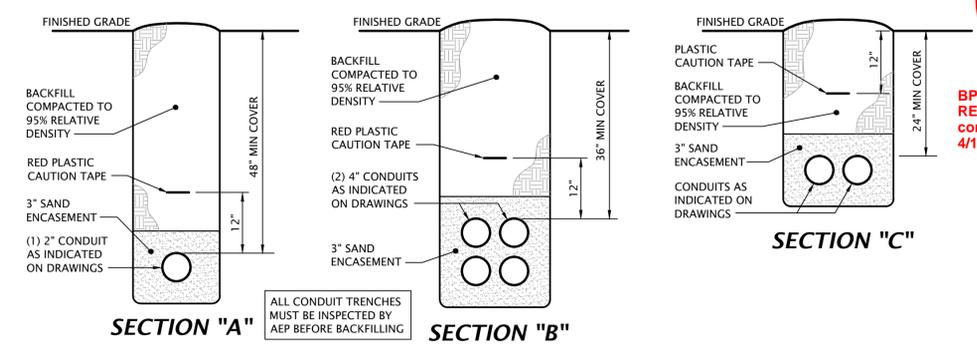
3 ELEVATOR SUMP PUMP DETAIL
NO SCALE



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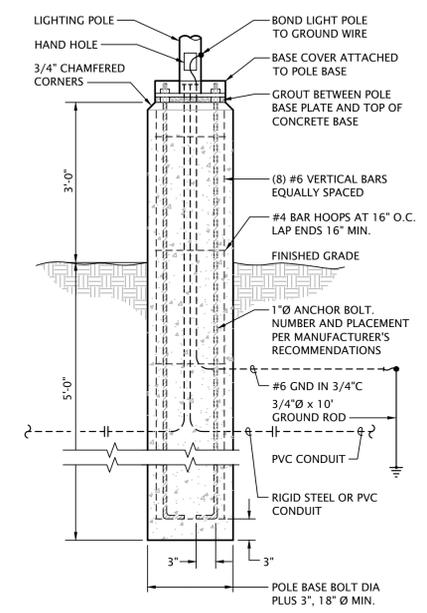


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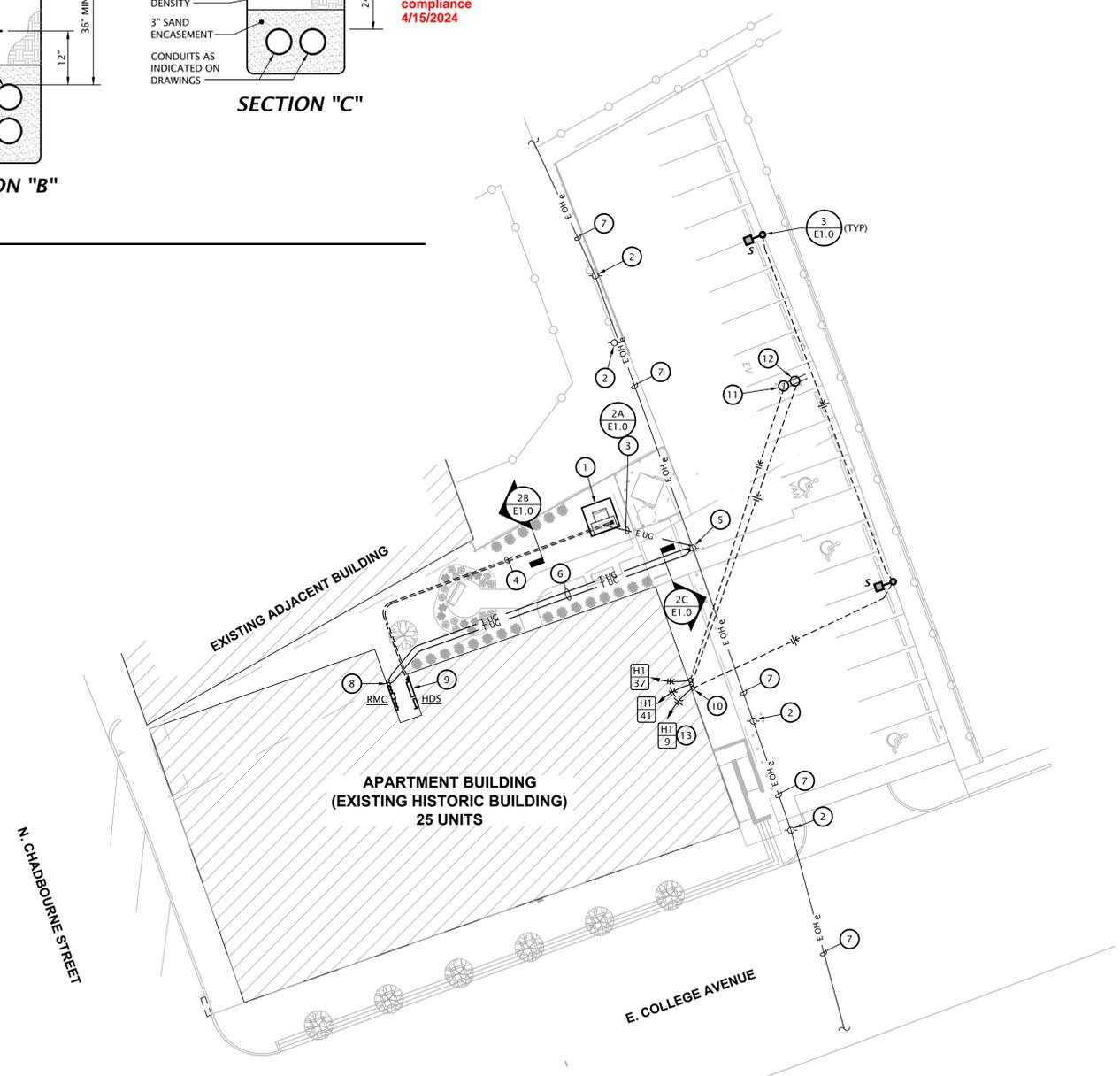


ALL CONDUIT TRENCHES
 MUST BE INSPECTED BY
 AEP BEFORE BACKFILLING

2 CONDUIT TRENCH DETAILS
 No Scale



3 CONCRETE POLE BASE DETAIL
 No Scale



1 ELECTRICAL SITE PLAN
 1" = 20'-0"

GENERAL SITE POWER NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND ASSOCIATED TRENCHING AND BACKFILL REQUIRED FOR UNDERGROUND ELECTRICAL UTILITY PRIMARY CABLE. POWER COMPANY SHALL FURNISH, INSTALL, AND TERMINATE ALL CONDUCTORS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND ASSOCIATED TRENCHING AND BACKFILL REQUIRED FOR UNDERGROUND ELECTRICAL SERVICE LATERALS FROM UTILITY TRANSFORMERS TO SERVICE EQUIPMENT AT BUILDING EXTERIORS. POWER COMPANY SHALL FURNISH, INSTALL, AND TERMINATE ALL CONDUCTORS.
- ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUIT ABOVE GRADE SHALL BE SCHEDULE 80 PVC.
- ALL CONDUIT TRENCHES MUST BE INSPECTED BY AEP BEFORE BACKFILLING.

ELECTRICAL SITE PLAN NOTES BY SYMBOL

- POWER COMPANY PAD MOUNTED TRANSFORMER. PROVIDE 8' W x 8' L x 6" D CONCRETE PAD PER AEP TEXAS SERVICE STANDARDS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH AEP TEXAS PRIOR TO COMMENCING WORK.
- EXISTING UTILITY POLE TO REMAIN, SHOWN FOR REFERENCE ONLY.
- 4" CONDUIT WITH PULL ROPE BELOW GRADE FOR POWER COMPANY PROVIDED PRIMARY CABLING. COORDINATE ROUTING WITH AEP TEXAS.
- (4) 4" CONDUITS WITH PULL ROPE BELOW GRADE FOR POWER COMPANY PROVIDED SERVICE LATERAL CABLING. COORDINATE ROUTING WITH AEP TEXAS.
- EXISTING UTILITY POLE TO BE UTILIZED FOR NEW PRIMARY SERVICE DROP. COORDINATE PRIMARY CONDUIT STUB-UP WITH POWER COMPANY.
- (2) 4" CONDUITS BELOW GRADE FOR COMMUNICATIONS SERVICES. PROVIDE PULLSTRING IN EACH RACEWAY.
- EXISTING ELECTRIC UTILITY 3-PHASE OVERHEAD PRIMARY DISTRIBUTION TO REMAIN.
- SEE SHEET E1.7 FOR CONTINUATION INSIDE BUILDING.
- ELECTRICAL UTILITY SERVICE TAP BOX. SEE RISER DIAGRAM, SHEET E6.1.
- PENETRATE EXTERIOR WALL WITH WEATHERPROOF CONDUIT BODIES AS LOW TO GROUND AS POSSIBLE. COORDINATE LOCATION WITH G.C. SEAL WEATHER TIGHT.
- MAKE FINAL CONNECTION TO OWNER PROVIDED SINGLE PORT EV CHARGING STATION EQUIPMENT. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S INSTRUCTIONS.
- MOUNT RECEPTACLE ON BOLLARD 18" AFG. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH G.C.
- ROUTE CIRCUIT THROUGH CONTACTOR 'C4', RE: 5/E6.1.



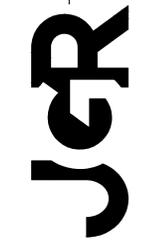
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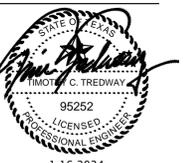
SEE SHEET E1.5 FOR GENERAL ELECTRICAL NOTES.

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ROOSEVELT LOFTS
HISTORIC REHABILITATION - APARTMENTS
SAN ANGELO, TEXAS



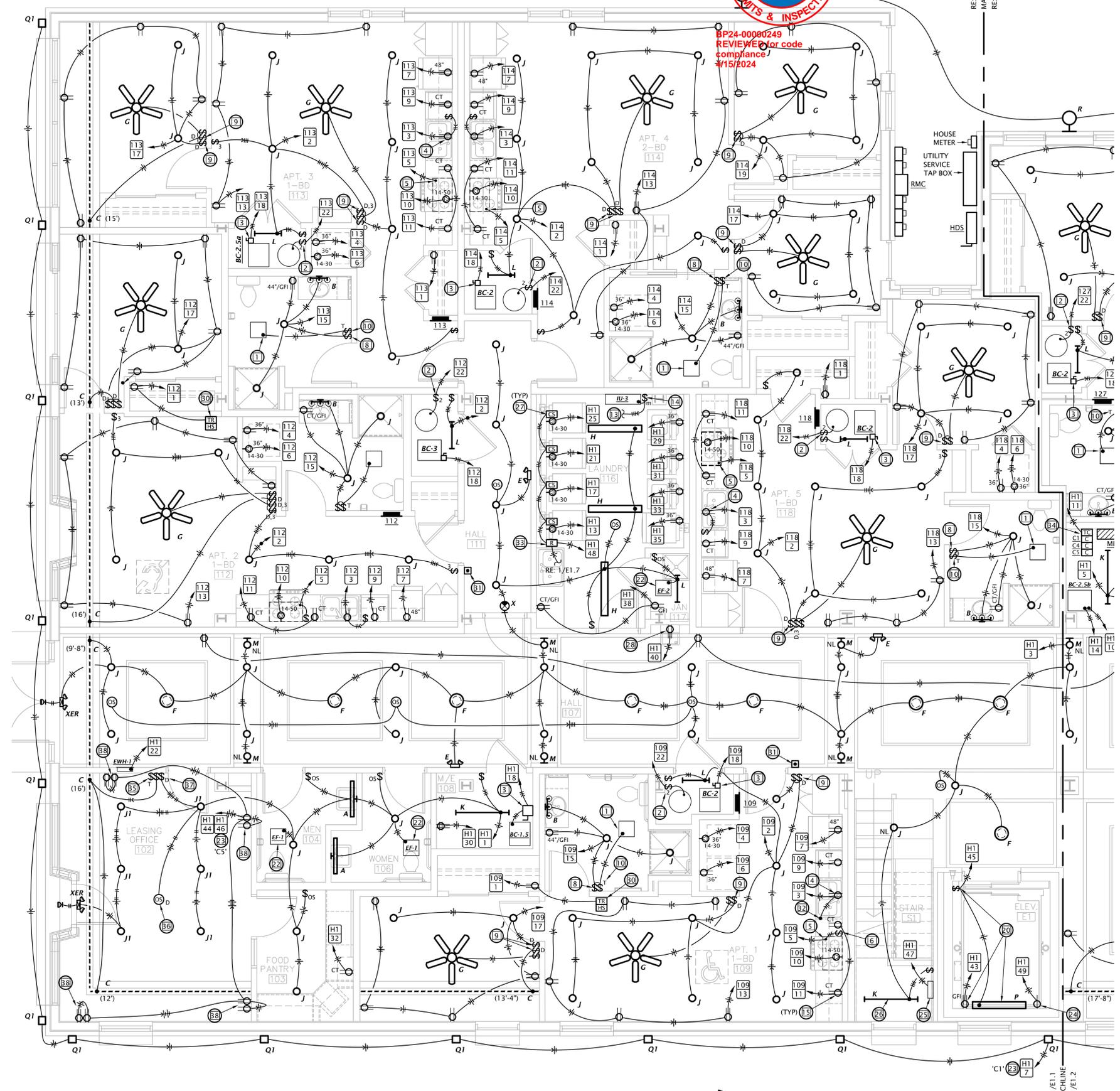
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E1.1

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ELECTRICAL PLAN NOTES BY SYMBOL

- CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
- PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
- SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER.
- PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
- PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
- IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
- SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
- PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
- 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:
1 BEDROOM: 20 MINUTES PER HOUR
2 BEDROOM: 35 MINUTES PER HOUR
- ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP (HWP) THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
- CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
- (3) #12, #12G, 1/2" C FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7.
- 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P65 #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- AT RECEPTACLES ABOVE KITCHEN COUNTERS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
- 30A/2P DISCONNECT SWITCH WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. SWITCH SHALL BE CAPABLE OF BEING LOCKED 'OFF'. MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO INSPECTION AND TEST PANEL (LDU) AT TOP OF 3RD FLOOR WITHIN ELEVATOR DOOR JAMB.
- ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 70A 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. COOPER BUSSMAN #PS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
- 3-PHASE POWER FEEDER AND (2) #18 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO 'JH1' DISCONNECT SWITCH.
- 100A/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.
- INSTALL LIGHT AND RECEPTACLE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO PIT LADDER AT 48" ABOVE FLOOR LANDING.
- INSTALL LIGHT AND RECEPTACLE ON WALL NEAR TOP OF ELEVATOR HOISTWAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT ENTRY AT 48" ABOVE FLOOR LANDING.
- SWITCH EXHAUST FAN WITH ROOM LIGHTS.
- ROUTE CIRCUIT THROUGH CONTACTOR INDICATED. SEE 5/E6.1.
- SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
- ELEVATOR SUMP PUMP ALARM PANEL IN CLOSET BELOW STAIR LANDING. PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
- MOUNT LIGHT FIXTURE FOR CLOSET BELOW STAIR LANDING. MOUNT TO STRUCTURE.
- ROUTE DRYER CIRCUIT THROUGH CURRENT SWITCH FOR OPERATION OF OUTSIDE AIR INTAKE HOOD. HOOD DAMPER SHALL OPEN WHEN ANY DRYER IS OPERATING. SEE DETAIL 2/E6.2.
- COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR.
- PROVIDE 120V POWER CONNECTION TO SEWAGE EJECTOR ALARM PANEL AND SIMPLEX RECEPTACLE FOR POWER TO SEWAGE EJECTOR PUMP. COORDINATE REQUIREMENTS WITH G.C. AND PLUMBING CONTRACTOR.
- PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL 3, SHEET E6.2. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR".
- PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 3, SHEET E6.2.
- IN ADA/ACCESSIBLE UNITS, DISPOSER SWITCH SHALL BE COUNTERTOP MOUNTED, AIR ACTIVATED PUSH BUTTON TYPE, FINISH TO MATCH SINK. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH ARCHITECT.
- RELAY FOR CONTROL OF MOTORIZED INTAKE HOOD ON ROOF. SEE 2/E6.2.
- TIMELOCK AND CONTACTORS FOR LIGHTING AND RECEPTACLE CONTROL. RE: 5/E6.1.
- 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
- LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORX #SWX-2-3-1-2-D OR EQUAL.
- PRESET SLIDE DIMMER, 0-10V, LEVITON #P710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
- ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT #44 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT #46 (CONTROLLED). CONTROLLED RECEPTACLE SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).



1 PARTIAL FIRST FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



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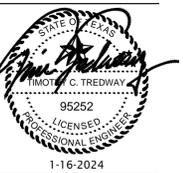
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ROOSEVELT LOFTS
 HISTORIC REHABILITATION - APARTMENTS
 SAN ANGELO, TEXAS

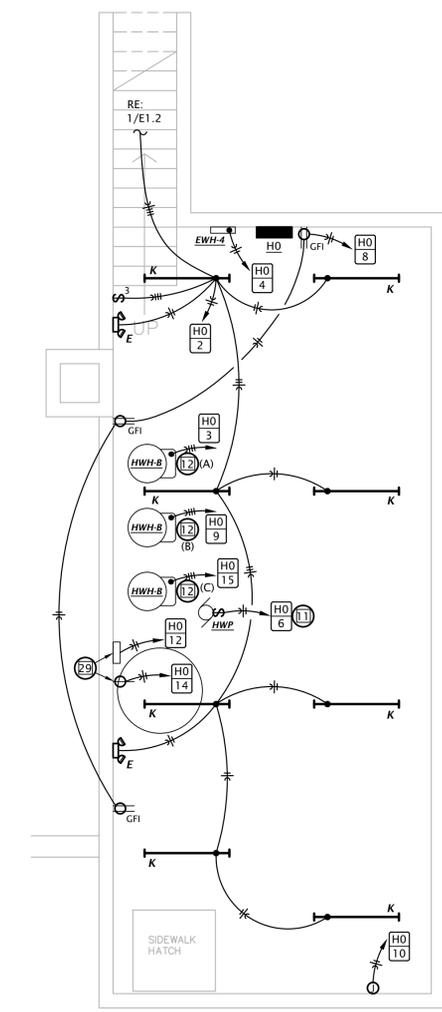
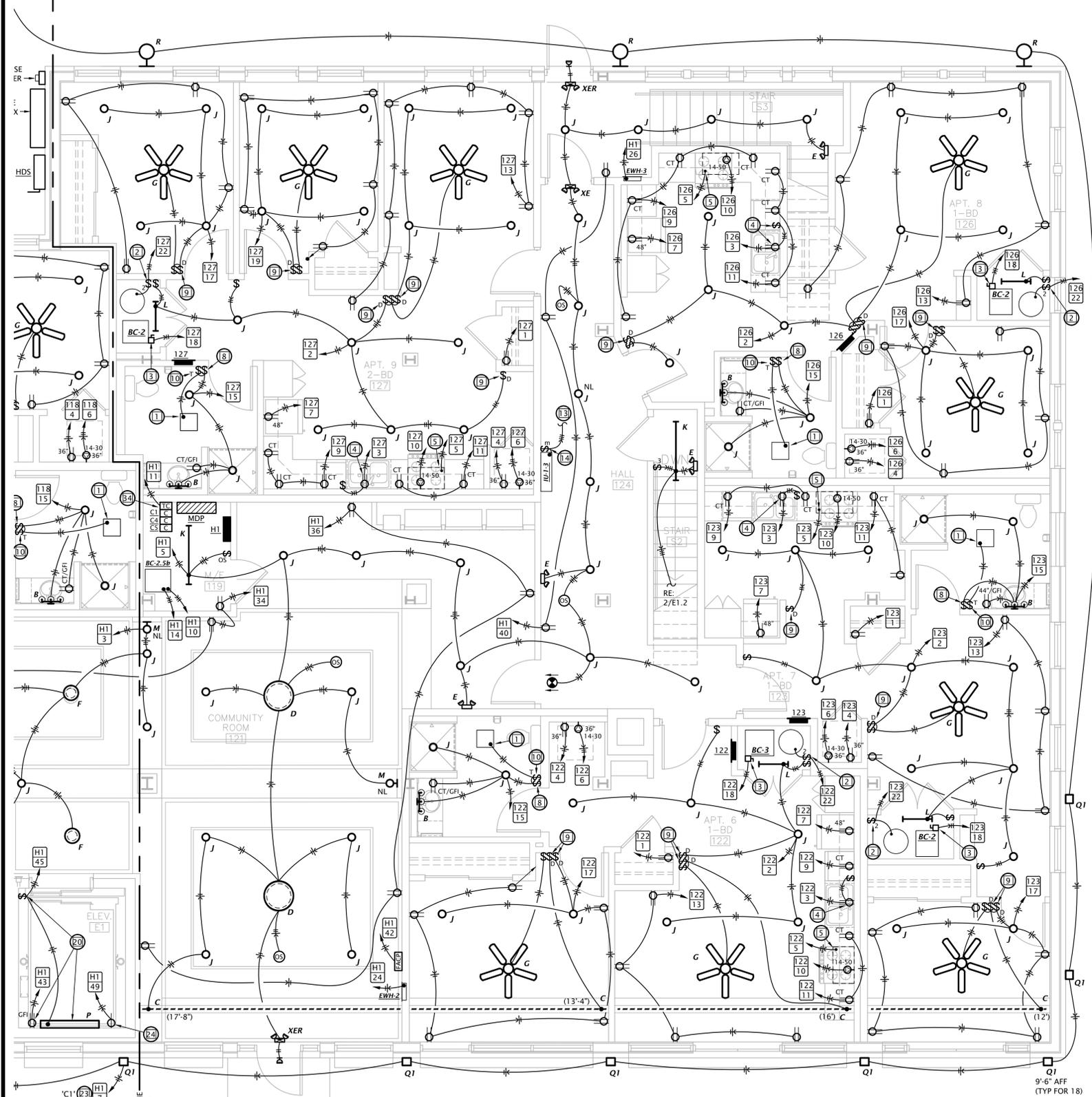


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DATE:	1-16-2024
JOB:	21-3166
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E1.2

ELECTRICAL PLAN NOTES BY SYMBOL

- CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
- PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
- SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER.
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- 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:
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- CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
- (3) #12, #12G, 1/2" CT FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7.
- 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
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- RELAY FOR CONTROL OF MOTORIZED INTAKE HOOD ON ROOF. SEE 2/E6.2.
- TIMECLOCK AND CONTACTORS FOR LIGHTING AND RECEPTACLE CONTROL. RE: 5/E6.1.
- 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
- LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORX #SWX-2-3-1-2-D OR EQUAL.
- PRESET SLIDE DIMMER, 0-10V, LEVITON #P710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
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1 PARTIAL FIRST FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

1 BASEMENT ELECTRICAL PLAN
 1/4" = 1'-0"

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SEE SHEET E1.5 FOR GENERAL ELECTRICAL NOTES.

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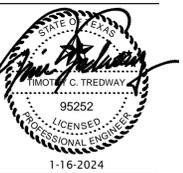
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Project 23061 January 2024

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ROOSEVELT LOFTS
HISTORIC REHABILITATION - APARTMENTS
SAN ANGELO, TEXAS



REVISION: 1-16-2024

DATE: 1-16-2024

JOB: 21-3166

SHEET NO.:

E1.3

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ELECTRICAL PLAN NOTES BY SYMBOL

- CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
- PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
- SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER.
- PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
- PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
- IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
- SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
- PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
- 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.
 - 1 BEDROOM: 20 MINUTES PER HOUR
 - 2 BEDROOM: 35 MINUTES PER HOUR
- ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP (HWRP) THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
- CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
- (3) #12, #12G, 1/2" C FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7.
- 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- AT RECEPTACLES ABOVE KITCHEN COUNTERS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
- 30A/2P DISCONNECT SWITCH WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. SWITCH SHALL BE CAPABLE OF BEING LOCKED 'OFF'. MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO INSPECTION AND TEST PANEL (LDU) AT TOP OF 3RD FLOOR WITHIN ELEVATOR DOOR JAMB.
- ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 70A 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. COOPER BUSSMAN #PS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
- 3-PHASE POWER FEEDER AND (2) #18 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO 'JH1' DISCONNECT SWITCH.
- 100A/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.
- INSTALL LIGHT AND RECEPTACLE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO PIT LADDER AT 48" ABOVE FLOOR LANDING.
- INSTALL LIGHT AND RECEPTACLE ON WALL NEAR TOP OF ELEVATOR HOISTWAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT ENTRY AT 48" ABOVE FLOOR LANDING.
- SWITCH EXHAUST FAN WITH ROOM LIGHTS.
- ROUTE CIRCUIT THROUGH CONTACTOR INDICATED. SEE 5/E6.1.
- SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
- ELEVATOR SUMP PUMP ALARM PANEL IN CLOSET BELOW STAIR LANDING. PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
- MOUNT LIGHT FIXTURE FOR CLOSET BELOW STAIR LANDING. MOUNT TO STRUCTURE.
- ROUTE DRYER CIRCUIT THROUGH CURRENT SWITCH FOR OPERATION OF OUTSIDE AIR INTAKE HOOD. HOOD DAMPER SHALL OPEN WHEN ANY DRYER IS OPERATING. SEE DETAIL 2/E6.2.
- COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR.
- PROVIDE 120V POWER CONNECTION TO SEWAGE EJECTOR ALARM PANEL AND SIMPLEX RECEPTACLE FOR POWER TO SEWAGE EJECTOR PUMP. COORDINATE REQUIREMENTS WITH G.C. AND PLUMBING CONTRACTOR.
- PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL 3, SHEET E6.2. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR".
- PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 3, SHEET E6.2.
- IN ADA/ACCESSIBLE UNITS, DISPOSER SWITCH SHALL BE COUNTERTOP MOUNTED, AIR ACTIVATED PUSH BUTTON TYPE, FINISH TO MATCH SINK. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH ARCHITECT.
- RELAY FOR CONTROL OF MOTORIZED INTAKE HOOD ON ROOF. SEE 2/E6.2.
- TIMECLOCK AND CONTACTORS FOR LIGHTING AND RECEPTACLE CONTROL. RE: 5/E6.1.
- 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
- LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORK #5WX-2-3-1-2-D OR EQUAL.
- PRESET SLIDE DIMMER, 0-10V, LEVITON #IP710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
- ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT #44 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT #46 (CONTROLLED). CONTROLLED RECEPTACLE SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).



PARTIAL SECOND FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



BP24-0000249
 REVIEWED for code
 compliance
 4/15/2024

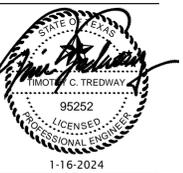
SEE SHEET E1.5 FOR GENERAL ELECTRICAL NOTES.

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ROOSEVELT LOFTS
 HISTORIC REHABILITATION - APARTMENTS
 SAN ANGELO, TEXAS

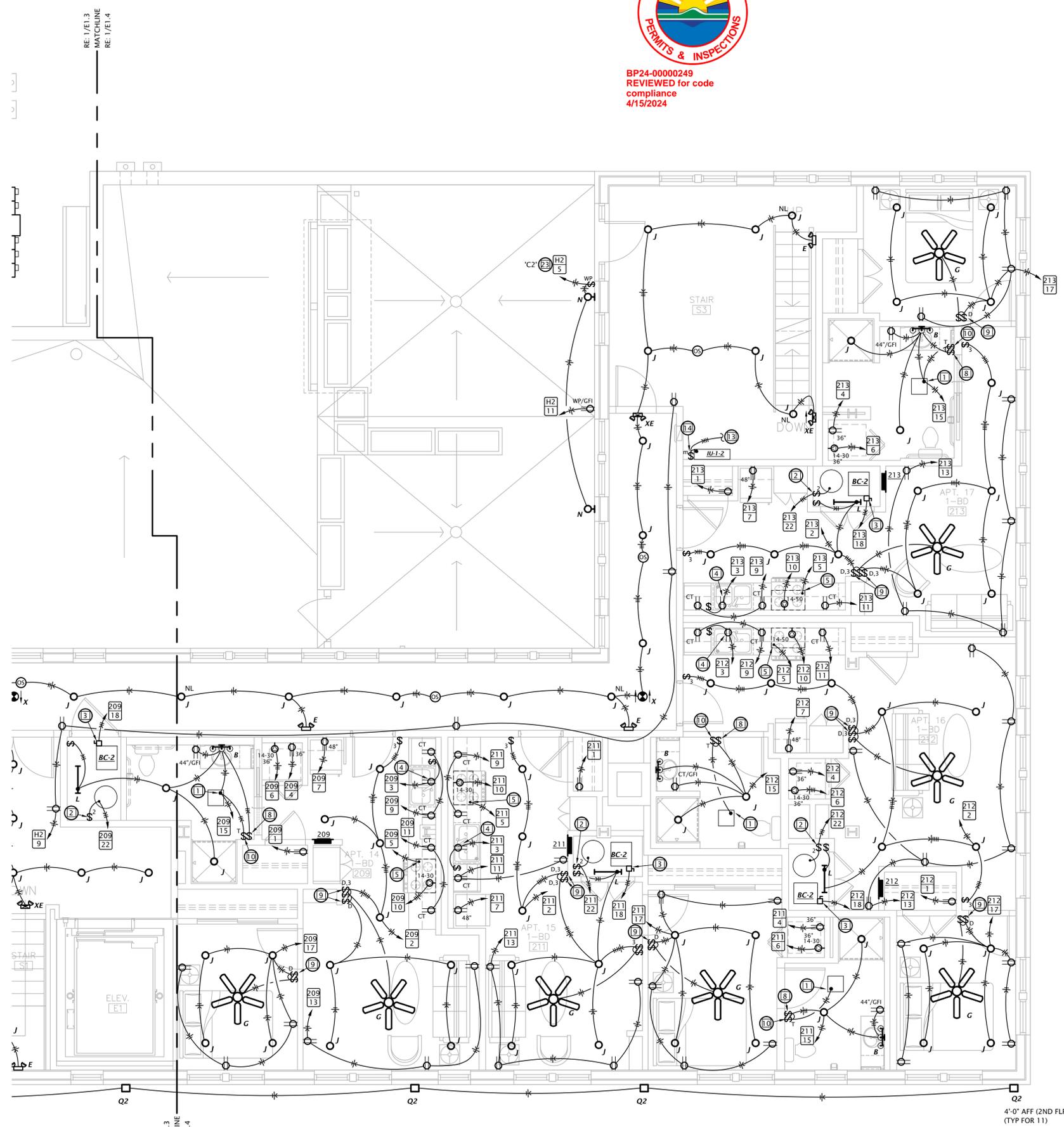


REVISION:	1-16-2024
DATE:	1-16-2024
JOB:	21-3166
SHEET NO.:	

E1.4

ELECTRICAL PLAN NOTES BY SYMBOL

- CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
- PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
- SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER.
- PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
- PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
- IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
- SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
- PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
- 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:
 - 1 BEDROOM: 20 MINUTES PER HOUR
 - 2 BEDROOM: 35 MINUTES PER HOUR
- ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP (HWP) THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
- CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
- (3) #12, #12G, 1/2" C FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7.
- 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- AT RECEPTACLES ABOVE KITCHEN COUNTERTOPS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
- 30A/2P DISCONNECT SWITCH WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. SWITCH SHALL BE CAPABLE OF BEING LOCKED "OFF". MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO INSPECTION AND TEST PANEL (LDU) AT TOP OF 3RD FLOOR WITHIN ELEVATOR DOOR JAMB.
- ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 70A 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. COOPER BUSSMAN #PS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
- 3-PHASE POWER FEEDER AND (2) #18 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO 'JH1' DISCONNECT SWITCH.
- 100A/3P NON-FUSED DISCONNECT SWITCH (DH1) 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.
- INSTALL LIGHT AND RECEPTACLE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO PIT LADDER AT 48" ABOVE FLOOR LANDING.
- INSTALL LIGHT AND RECEPTACLE ON WALL NEAR TOP OF ELEVATOR HOISTWAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT ENTRY AT 48" ABOVE FLOOR LANDING.
- SWITCH EXHAUST FAN WITH ROOM LIGHTS.
- ROUTE CIRCUIT THROUGH CONTACTOR INDICATED. SEE 5/E6.1.
- SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
- ELEVATOR SUMP PUMP ALARM PANEL IN CLOSET BELOW STAIR LANDING. PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
- MOUNT LIGHT FIXTURE FOR CLOSET BELOW STAIR LANDING. MOUNT TO STRUCTURE.
- ROUTE DRYER CIRCUIT THROUGH CURRENT SWITCH FOR OPERATION OF OUTSIDE AIR INTAKE HOOD. HOOD DAMPER SHALL OPEN WHEN ANY DRYER IS OPERATING. SEE DETAIL 2/E6.2.
- COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR.
- PROVIDE 120V POWER CONNECTION TO SEWAGE EJECTOR ALARM PANEL AND SIMPLEX RECEPTACLE FOR POWER TO SEWAGE EJECTOR PUMP. COORDINATE REQUIREMENTS WITH G.C. AND PLUMBING CONTRACTOR.
- PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL 3, SHEET E6.2. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR".
- PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 3, SHEET E6.2.
- IN ADA/ACCESSIBLE UNITS, DISPOSER SWITCH SHALL BE COUNTERTOP MOUNTED, AIR ACTIVATED PUSH BUTTON TYPE, FINISH TO MATCH SINK. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH ARCHITECT.
- RELAY FOR CONTROL OF MOTORIZED INTAKE HOOD ON ROOF. SEE 2/E6.2.
- TIMELOCK AND CONTACTORS FOR LIGHTING AND RECEPTACLE CONTROL. RE: 5/E6.1.
- 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
- LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORX #SWX-2-3-1-2-0 OR EQUAL.
- PRESET SLIDE DIMMER, 0-10V, LEVITON #P710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
- ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT #44 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT #46 (CONTROLLED). CONTROLLED RECEPTACLE SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).



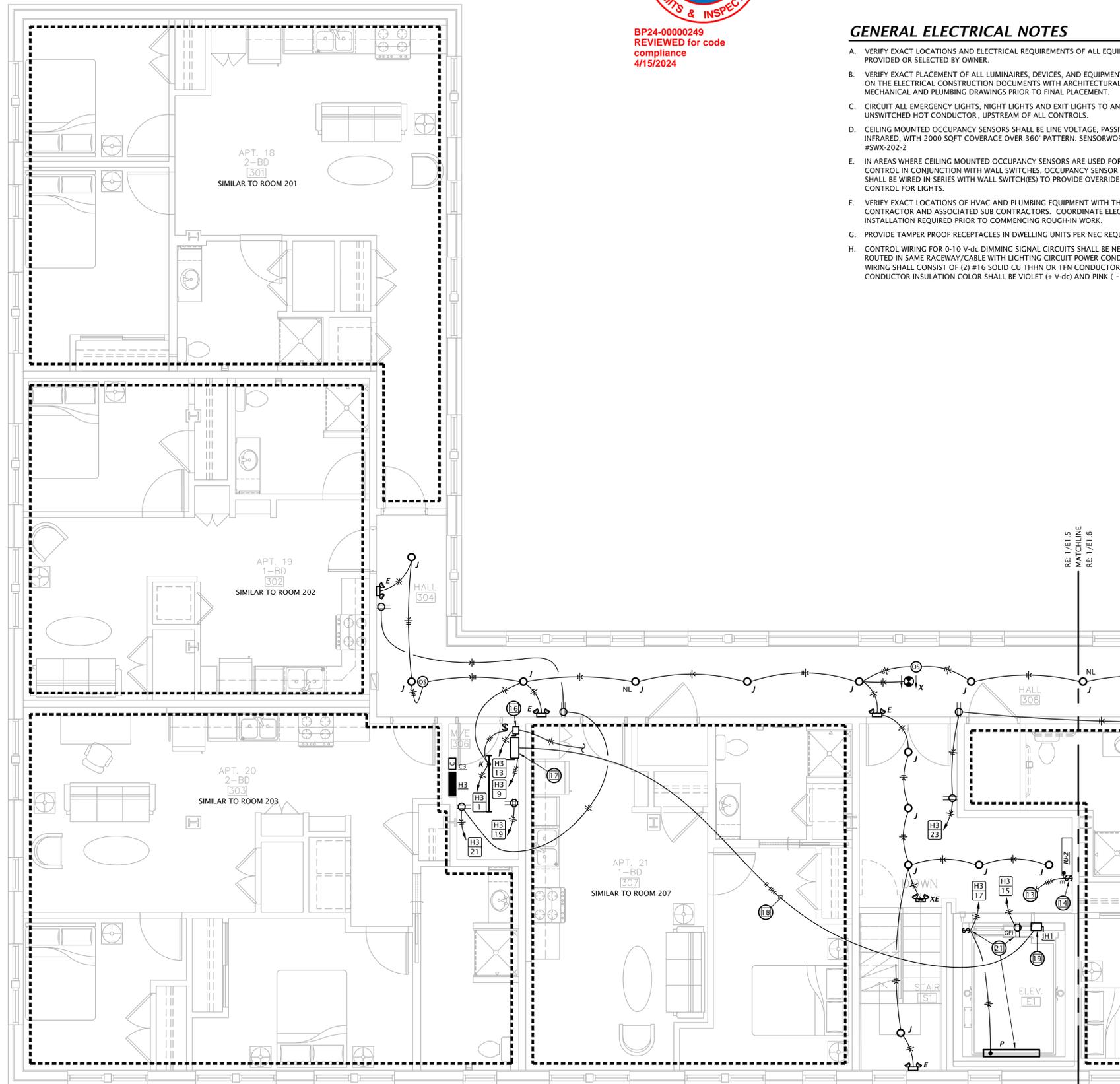
PARTIAL SECOND FLOOR ELECTRICAL PLAN
 1/4" = 1'-0"

RE: 1/E1.3 MATCHLINE
 RE: 1/E1.4
 RE: 1/E1.3 MATCHLINE
 RE: 1/E1.4

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REVIEWED for code
compliance
4/15/2024



1 PARTIAL THIRD FLOOR ELECTRICAL PLAN
1/4" = 1'-0"

GENERAL ELECTRICAL NOTES

- A. VERIFY EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED OR SELECTED BY OWNER.
- 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. CIRCUIT ALL EMERGENCY LIGHTS, NIGHT LIGHTS AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR, UPSTREAM OF ALL CONTROLS.
- D. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LINE VOLTAGE, PASSIVE INFRARED, WITH 2000 SQFT COVERAGE OVER 360° PATTERN. SENSORWORX #SWX-202-2
- E. IN AREAS WHERE CEILING MOUNTED OCCUPANCY SENSORS ARE USED FOR LIGHTING CONTROL IN CONJUNCTION WITH WALL SWITCHES, OCCUPANCY SENSOR SWITCH LEG SHALL BE WIRED IN SERIES WITH WALL SWITCH(ES) TO PROVIDE OVERRIDE "OFF" CONTROL FOR LIGHTS.
- F. VERIFY EXACT LOCATIONS OF HVAC AND PLUMBING EQUIPMENT WITH THE GENERAL CONTRACTOR AND ASSOCIATED SUB CONTRACTORS. COORDINATE ELECTRICAL INSTALLATION REQUIRED PRIOR TO COMMENCING ROUGH-IN WORK.
- G. PROVIDE TAMPER PROOF RECEPTACLES IN DWELLING UNITS PER NEC REQUIREMENTS.
- H. 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 THIN OR TFM CONDUCTORS. CONDUCTOR INSULATION COLOR SHALL BE VIOLET (+ V-dc) AND PINK (- V-dc).

ELECTRICAL PLAN NOTES BY SYMBOL

1. CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
2. PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
3. PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
4. SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER.
5. PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
6. PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
7. IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 "SIDE REACH OVER AN OBSTRUCTION" REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
8. SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
9. PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
10. 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:
 - 1 BEDROOM: 20 MINUTES PER HOUR
 - 2 BEDROOM: 35 MINUTES PER HOUR
11. ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP (HWP) THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
12. CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
13. (3) #12, #12G, 1/2" C FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7.
14. 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
15. AT RECEPTACLES ABOVE KITCHEN COUNTERS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
16. 30A/2P DISCONNECT SWITCH WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. SWITCH SHALL BE CAPABLE OF BEING LOCKED "OFF". MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO INSPECTION AND TEST PANEL (LDU) AT TOP OF 3RD FLOOR WITHIN ELEVATOR DOOR JAMB.
17. ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 70A 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. COOPER BUSSMAN #PS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
18. 3-PHASE POWER FEEDER AND (2) #18 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO "JH1" DISCONNECT SWITCH.
19. 100A/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.
20. INSTALL LIGHT AND RECEPTACLE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO PIT LADDER AT 48" ABOVE FLOOR LANDING.
21. INSTALL LIGHT AND RECEPTACLE ON WALL NEAR TOP OF ELEVATOR HOISTWAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT ENTRY AT 48" ABOVE FLOOR LANDING.
22. SWITCH EXHAUST FAN WITH ROOM LIGHTS.
23. ROUTE CIRCUIT THROUGH CONTACTOR INDICATED. SEE 5/E6.1.
24. SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
25. ELEVATOR SUMP PUMP ALARM PANEL IN CLOSET BELOW STAIR LANDING. PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
26. MOUNT LIGHT FIXTURE FOR CLOSET BELOW STAIR LANDING. MOUNT TO STRUCTURE.
27. ROUTE DRYER CIRCUIT THROUGH CURRENT SWITCH FOR OPERATION OF OUTSIDE AIR INTAKE HOOD. HOOD DAMPER SHALL OPEN WHEN ANY DRYER IS OPERATING. SEE DETAIL 2/E6.2.
28. COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR.
29. PROVIDE 120V POWER CONNECTION TO SEWAGE EJECTOR ALARM PANEL AND SIMPLEX RECEPTACLE FOR POWER TO SEWAGE EJECTOR PUMP. COORDINATE REQUIREMENTS WITH G.C. AND PLUMBING CONTRACTOR.
30. PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL 3, SHEET E6.2. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR".
31. PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 3, SHEET E6.2.
32. IN ADA/ACCESSIBLE UNITS, DISPOSER SWITCH SHALL BE COUNTERTOP MOUNTED, AIR ACTIVATED PUSH BUTTON TYPE, FINISH TO MATCH SINK. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH ARCHITECT.
33. RELAY FOR CONTROL OF MOTORIZED INTAKE HOOD ON ROOF. SEE 2/E6.2.
34. TIMECLOCK AND CONTACTORS FOR LIGHTING AND RECEPTACLE CONTROL. RE: 5/E6.1.
35. 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
36. LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORX #SWX-2-3-1-2-D OR EQUAL.
37. PRESET SLIDE DIMMER, 0-10V, LEVITON #P710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
38. ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT #44 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT #46 (CONTROLLED). CONTROLLED RECEPTACLE SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).

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ROOSEVELT LOFTS
HISTORIC REHABILITATION - APARTMENTS
SAN ANGELO, TEXAS



REVISION: 1-16-2024
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SEE SHEET E1.5 FOR GENERAL ELECTRICAL NOTES.

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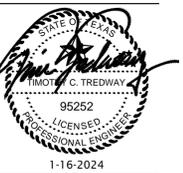
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ROOSEVELT LOFTS
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SAN ANGELO, TEXAS



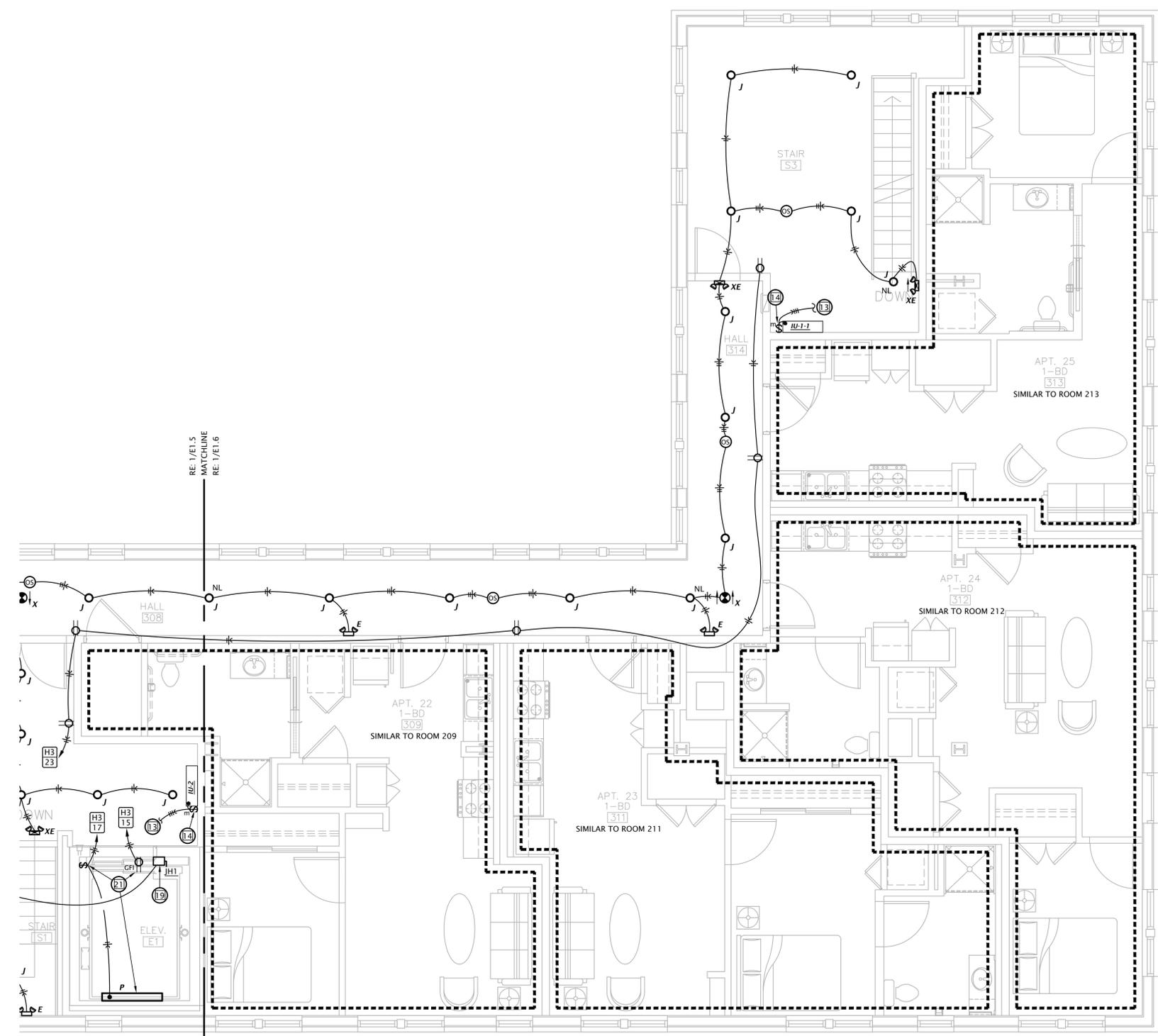
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ELECTRICAL PLAN NOTES BY SYMBOL

- CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.
- PROVIDE 60A/2P DISCONNECT SWITCH AND CONNECT TO BLOWER COIL WITH ELECTRIC HEAT. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH M.C.
- SPLIT-WIRE DUPLEX RECEPTACLE BELOW COUNTER. TOP HALF OF RECEPTACLE TO BE SWITCHED FOR CONTROL OF GARBAGE DISPOSAL. BOTTOM HALF OF RECEPTACLE TO BE WIRED UNSWITCHED FOR DISHWASHER. RECEPTACLE SHALL BE LOCATED IN BACK OF BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS. PROVIDE CORDS AND GROUNDING PLUGS AS REQUIRED FOR DISPOSER AND DISHWASHER.
- PROVIDE 120V CONNECTION TO MICROWAVE/RANGE HOOD. STANDARD AND ADAPTABLE UNITS WILL HAVE MICROWAVE ABOVE RANGE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.
- PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
- IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.
- SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
- PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT FIXTURES.
- 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:
1 BEDROOM: 20 MINUTES PER HOUR
2 BEDROOM: 35 MINUTES PER HOUR
- ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP (HWP) THROUGH ADJACENT AQUASTAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
- CONNECT UNBALANCED PORTION OF WATER HEATER LOAD TO PHASE LEG INDICATED.
- (3) #12, #12G, 1/2" C FROM ASSOCIATED OUTDOOR UNIT ON ROOF. SEE SHEET E1.7.
- 30A/3P MANUAL MOTOR CONTROLLER SNAP SWITCH (WITHOUT OVERLOAD PROTECTION) IN NEMA 1 ENCLOSURE, P&S #7803W OR EQUAL. MOUNT ADJACENT TO UNIT AND MAKE FINAL FLEXIBLE CONNECTION TO EQUIPMENT.
- AT RECEPTACLES ABOVE KITCHEN COUNTERTOPS IN ACCESSIBLE UNITS (#109 & #203, PROVIDE 1" DEEP FLUSH TYPE EXTENSION ADAPTER, WIREMOLD #V5751WH, TO BRING RECEPTACLE CLOSER TO COUNTERTOP EDGE TO COMPLY WITH 24" SIDE REACH REQUIREMENT.
- 30A/2P DISCONNECT SWITCH WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. SWITCH SHALL BE CAPABLE OF BEING LOCKED "OFF". MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO INSPECTION AND TEST PANEL (LDU) AT TOP OF 3RD FLOOR WITHIN ELEVATOR DOOR JAMB.
- ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 70A 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. COOPER BUSSMAN #FS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
- 3-PHASE POWER FEEDER AND (2) #8 STRANDED CU CONDUCTORS FROM ELEVATOR POWER MODULE SWITCH TO 'JH1' DISCONNECT SWITCH.
- 100A/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 RISE BOX. COORDINATE MOUNTING LOCATION AT TOP OF HOISTWAY AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER.
- INSTALL LIGHT AND RECEPTACLE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT TO PIT LADDER AT 48" ABOVE FLOOR LANDING.
- INSTALL LIGHT AND RECEPTACLE ON WALL NEAR TOP OF ELEVATOR HOISTWAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER. INSTALL LIGHT SWITCH ADJACENT ENTRY AT 48" ABOVE FLOOR LANDING.
- SWITCH EXHAUST FAN WITH ROOM LIGHTS.
- ROUTE CIRCUIT THROUGH CONTACTOR INDICATED. SEE 5/E6.1.
- SIMPLEX RECEPTACLE IN ELEVATOR PIT FOR ELEVATOR SUMP PUMP. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR AND ELEVATOR EQUIPMENT INSTALLER.
- ELEVATOR SUMP PUMP ALARM PANEL IN CLOSET BELOW STAIR LANDING. PROVIDE 120V POWER CONNECTION AND 1" CONDUIT WITH PULL STRING STUBBED INTO ELEVATOR PIT FOR CONTROL CABLING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
- MOUNT LIGHT FIXTURE FOR CLOSET BELOW STAIR LANDING. MOUNT TO STRUCTURE.
- ROUTE DRYER CIRCUIT THROUGH CURRENT SWITCH FOR OPERATION OF OUTSIDE AIR INTAKE HOOD. HOOD DAMPER SHALL OPEN WHEN ANY DRYER IS OPERATING. SEE DETAIL 2/E6.2.
- COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR.
- PROVIDE 120V POWER CONNECTION TO SEWAGE EJECTOR ALARM PANEL AND SIMPLEX RECEPTACLE FOR POWER TO SEWAGE EJECTOR PUMP. COORDINATE REQUIREMENTS WITH G.C. AND PLUMBING CONTRACTOR.
- PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. SEE DETAIL 3, SHEET E6.2. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR".
- PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 3, SHEET E6.2.
- IN ADA/ACCESSIBLE UNITS, DISPOSER SWITCH SHALL BE COUNTERTOP MOUNTED, AIR ACTIVATED PUSH BUTTON TYPE, FINISH TO MATCH SINK. COORDINATE EXACT LOCATION OF PUSH BUTTON WITH ARCHITECT.
- RELAY FOR CONTROL OF MOTORIZED INTAKE HOOD ON ROOF. SEE 2/E6.2.
- TIMECLOCK AND CONTACTORS FOR LIGHTING AND RECEPTACLE CONTROL. RE: 5/E6.1.
- 2-HOUR DIAL TIMER OVERRIDE SWITCH FOR SWITCHED RECEPTACLES. SEE 5/E6.1.
- LINE VOLTAGE CEILING OCCUPANCY SENSOR/PHOTOCELL WITH DAYLIGHT HARVESTING CAPABILITY. SENSOR SHALL DIM 0-10V LIGHTS WHEN ADEQUATE DAYLIGHT IS PRESENT. SENSORWORK #SWX-2-3-1-2-D OR EQUAL.
- PRESET SLIDE DIMMER, 0-10V, LEVITON #P710-DLZ OR EQUAL. COORDINATE DEVICE COLOR WITH ARCHITECT.
- ONE RECEPTACLE SHALL BE CONNECTED TO CIRCUIT #44 (UNCONTROLLED) AND THE OTHER RECEPTACLES SHALL BE CONNECTED TO CIRCUIT #46 (CONTROLLED). CONTROLLED RECEPTACLE SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).



PARTIAL THIRD FLOOR ELECTRICAL PLAN
1/4" = 1'-0"



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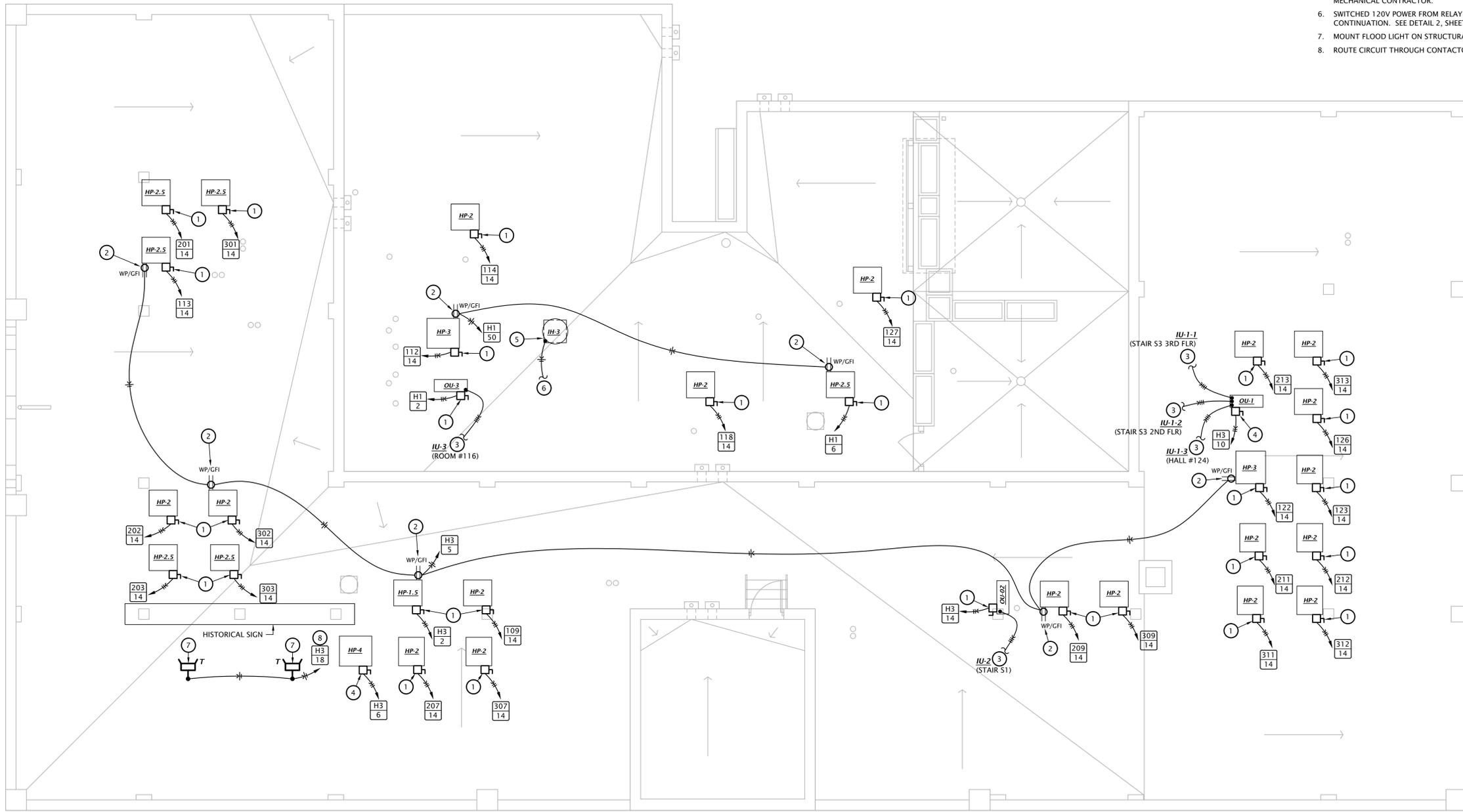
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GENERAL ELECTRICAL NOTES

- A. COORDINATE EXACT PANEL OF CIRCUIT ORIGIN FOR RESIDENTIAL TENANT HEAT PUMP UNITS.
- B. ALL CONDUIT PENETRATIONS THROUGH ROOF SHALL OCCUR AT PIPE CURBS ALONG WITH REFRIGERANT PIPING, ETC. COORDINATE CURB LOCATIONS WITH MECHANICAL CONTRACTOR.

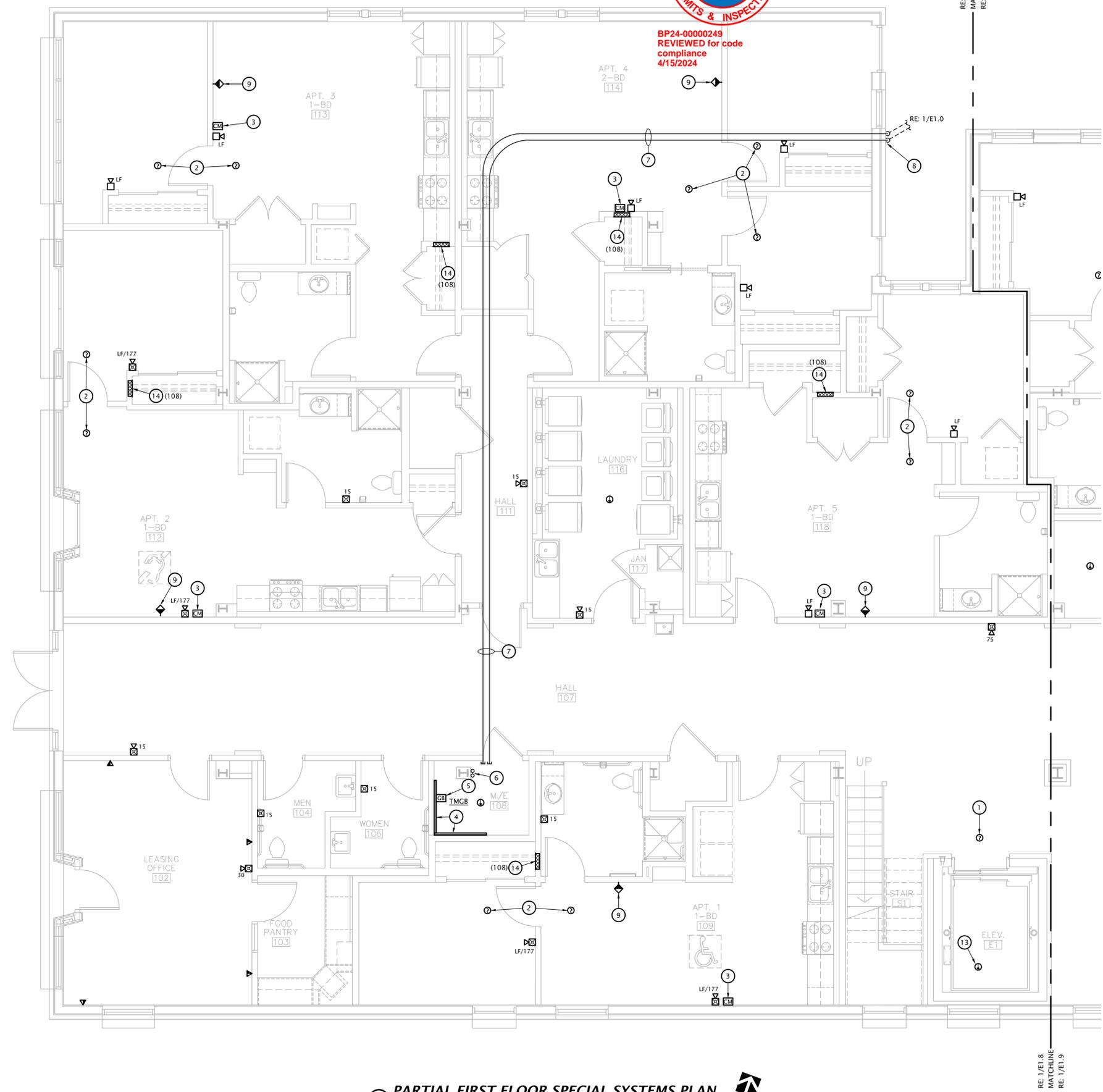
ELECTRICAL PLAN NOTES BY SYMBOL

1. 30A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. MOUNT SWITCH TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. MAKE FINAL CONNECTION TO EQUIPMENT IN 'LFMC' RACEWAY.
2. MOUNT RECEPTACLE TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS.
3. PROVIDE (3) #12, #12G, 1/2" C FROM OUTDOOR UNIT TO ASSOCIATED INDOOR UNIT (UNIT ID AND LOCATION NOTED).
4. 60A/2P NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. MOUNT SWITCH TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. MAKE FINAL CONNECTION TO EQUIPMENT IN 'LFMC' RACEWAY.
5. CONNECT TO MOTORIZED DAMPER FOR INTAKE HOOD. COORDINATE WITH MECHANICAL CONTRACTOR.
6. SWITCHED 120V POWER FROM RELAY IN LAUNDRY ROOM 116. SEE SHEET E1.1 FOR CONTINUATION. SEE DETAIL 2, SHEET E6.2.
7. MOUNT FLOOD LIGHT ON STRUCTURAL PLATFORM AND AIM AT SIGN.
8. ROUTE CIRCUIT THROUGH CONTACTOR 'C3'. SEE DETAIL 5, SHEET E6.1.



1 ELECTRICAL ROOF PLAN
 3/16" = 1'-0"

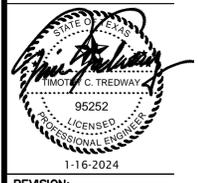
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SPECIAL SYSTEMS PLAN NOTES BY SYMBOL

1. ELEVATOR LOBBY HEAT DETECTOR. SEE DETAIL 4:E6.1.
2. FIRE ALARM SYSTEM COMBINATION CO / SMOKE DETECTOR.
3. FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNIT'S NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNIT'S NOTIFICATION APPLIANCES UPON GENERAL BUILDING FIRE ALARM AND UPON ACTIVATION OF ANY SMOKE DETECTOR OR CO DETECTOR WITHIN APARTMENT UNIT. MOUNT FLUSH IN WALL AT 8'-0" AFF.
4. TELEPHONE TERMINAL BOARD: COVER WALL WITH 4"X8"X3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE 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. TELECOMMUNICATIONS GROUND BAR AT 18" AFF. SEE DETAIL 6, SHEET E6.1.
6. (2) 4" EMT CONDUIT SLEEVES FROM OVERHEAD IN M/E ROOM 108, THROUGH M/E ROOM 206, AND STUBBED UP 4" ABOVE FINISHED FLOOR OF M/E ROOM 306 FOR COMMUNICATIONS BACKBONE CABLING. PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.
7. (2) 4" CONDUITS FOR COMMUNICATIONS SERVICE CABLING ROUTED CONCEALED OVERHEAD AND STUBBED INTO M/E ROOM 108.
8. SEAL CONDUIT PENETRATIONS THROUGH EXTERIOR WALL WEATHERTIGHT.
9. COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER. SEE 1:E6.2 FOR OUTLET DETAILS.
10. ADDRESSABLE FIRE ALARM RELAY FOR ELEVATOR POWER SHUNT-TRIP, AND ADDRESSABLE MONITORING MODULE FOR MONITORING OF SHUNT TRIP VOLTAGE. SEE DETAIL 4:E6.1.
11. ADDRESSABLE FIRE ALARM RELAYS FOR ELEVATOR PRIMARY AND ALTERNATE FLOOR RECALL AND FIREMAN'S HAT. MOUNT ON HOISTWAY WALL ABOVE CEILING AND PROVIDE ACCESS PANEL IN CEILING AS REQUIRED. COORDINATE WITH ELEVATOR EQUIPMENT INSTALLER AND G.C. SEE DETAIL 4:E6.1.
12. INSTALL SMOKE DETECTOR AND HEAT DETECTOR AT TOP OF ELEVATOR HOISTWAY PER LOCAL JURISDICTION REQUIREMENTS. SEE DETAIL 4:E6.1.
13. INSTALL HEAT DETECTOR IN ELEVATOR PIT. SEE DETAIL 4:E6.1.
14. TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. SEE DETAIL 1:E6.2. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER. HOMERUN CAT6 AND COAX CABLE TO ROOM INDICATED.
15. COORDINATE TELECOM OUTLET LOCATION NEAR TOP OF HOISTWAY WITH ELEVATOR INSTALLER.
16. PROVIDE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, AND BELL/CONG. SEE E1.1 SITE PLAN FOR LOCATION OF TAMPER SWITCHES. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO BID.

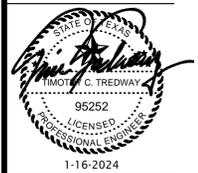
1 PARTIAL FIRST FLOOR SPECIAL SYSTEMS PLAN
 1/4" = 1'-0"



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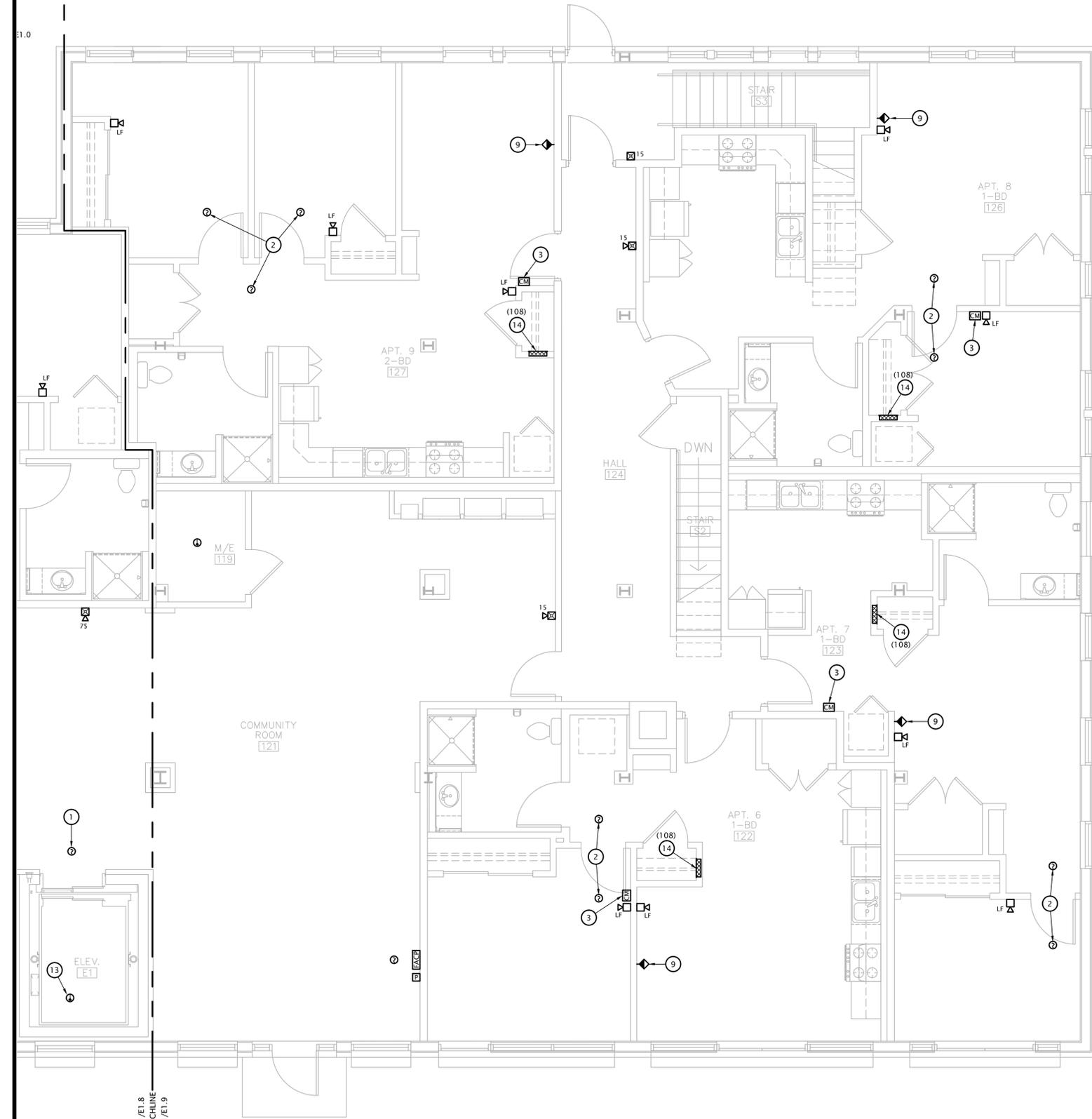


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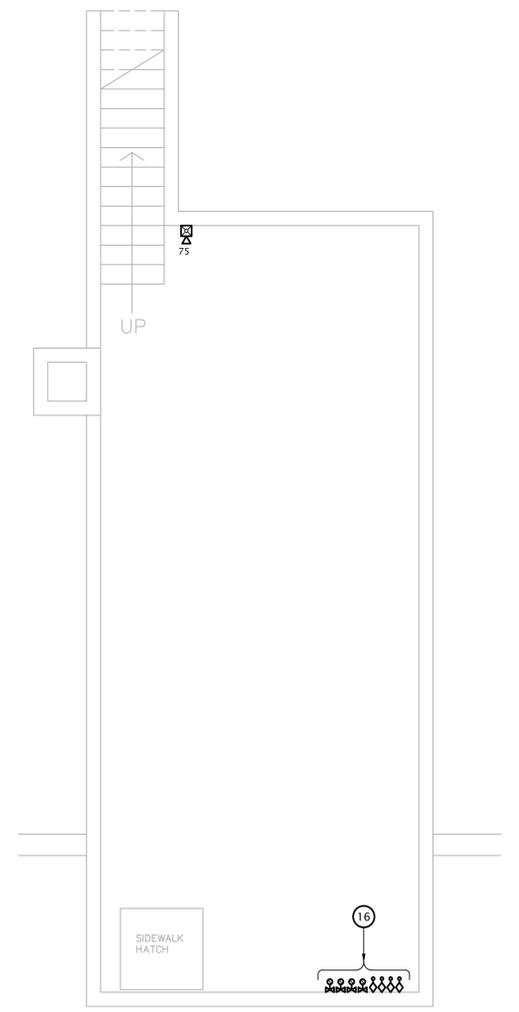
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SPECIAL SYSTEMS PLAN NOTES BY SYMBOL

- ELEVATOR LOBBY HEAT DETECTOR. SEE DETAIL 4:E6.1.
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- SEAL CONDUIT PENETRATIONS THROUGH EXTERIOR WALL WEATHERTIGHT.
- COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER. SEE 1:E6.2 FOR OUTLET DETAILS.
- ADDRESSABLE FIRE ALARM RELAY FOR ELEVATOR POWER SHUNT-TRIP, AND ADDRESSABLE MONITORING MODULE FOR MONITORING OF SHUNT TRIP VOLTAGE. SEE DETAIL 4:E6.1.
- ADDRESSABLE FIRE ALARM RELAYS FOR ELEVATOR PRIMARY AND ALTERNATE FLOOR RECALL AND FIREMAN'S HAT. MOUNT ON HOISTWAY WALL ABOVE CEILING AND PROVIDE ACCESS PANEL IN CEILING AS REQUIRED. COORDINATE WITH ELEVATOR EQUIPMENT INSTALLER AND G.C. SEE DETAIL 4:E6.1.
- INSTALL SMOKE DETECTOR AND HEAT DETECTOR AT TOP OF ELEVATOR HOISTWAY PER LOCAL JURISDICTION REQUIREMENTS. SEE DETAIL 4:E6.1.
- INSTALL HEAT DETECTOR IN ELEVATOR PIT. SEE DETAIL 4:E6.1.
- TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. SEE DETAIL 1:E6.2. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER. HOMERUN CAT6 AND COAX CABLE TO ROOM INDICATED.
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1 PARTIAL FIRST FLOOR SPECIAL SYSTEM PLAN
 1/4" = 1'-0"



2 BASEMENT SPECIAL SYSTEMS PLAN
 1/4" = 1'-0"

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SPECIAL SYSTEMS PLAN NOTES BY SYMBOL

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1 PARTIAL SECOND FLOOR SPECIAL SYSTEMS PLAN
1/4" = 1'-0"

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ROOSEVELT LOFTS
HISTORIC REHABILITATION - APARTMENTS
SAN ANGELO, TEXAS



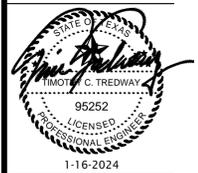
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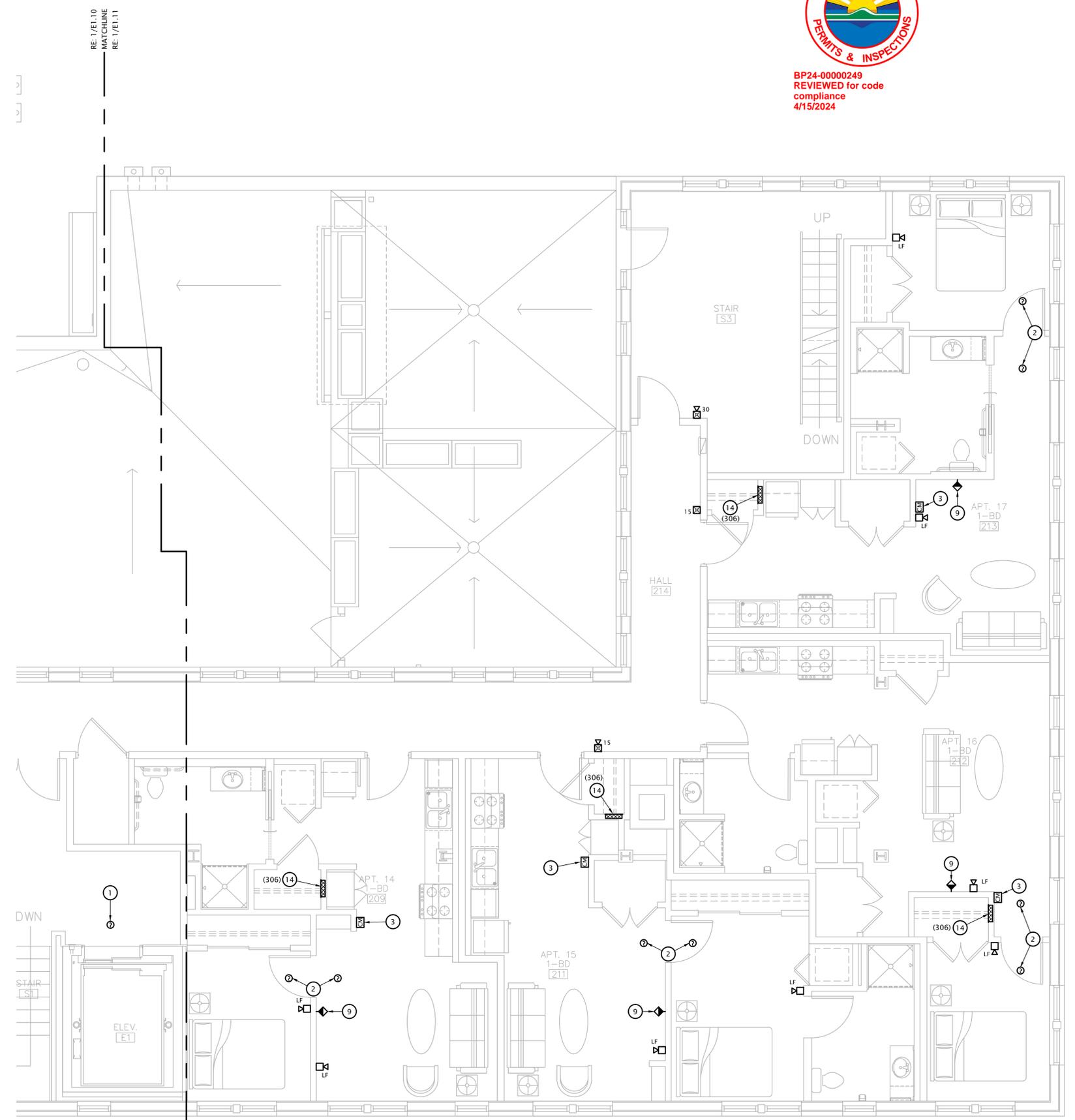
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SPECIAL SYSTEMS PLAN NOTES BY SYMBOL

- ELEVATOR LOBBY HEAT DETECTOR. SEE DETAIL 4:E6.1.
- FIRE ALARM SYSTEM COMBINATION CO / SMOKE DETECTOR.
- FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNIT'S NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNIT'S NOTIFICATION APPLIANCES UPON GENERAL BUILDING FIRE ALARM AND UPON ACTIVATION OF ANY SMOKE DETECTOR OR CO DETECTOR WITHIN APARTMENT UNIT. MOUNT FLUSH IN WALL AT 8'-0" AFF.
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- TELECOMMUNICATIONS GROUND BAR AT 18" AFF. SEE DETAIL 6, SHEET E6.1.
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1 PARTIAL SECOND FLOOR SPECIAL SYSTEMS PLAN
 1/4" = 1'-0"

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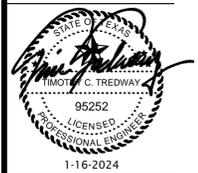
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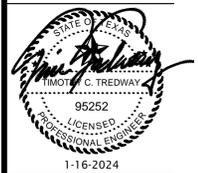
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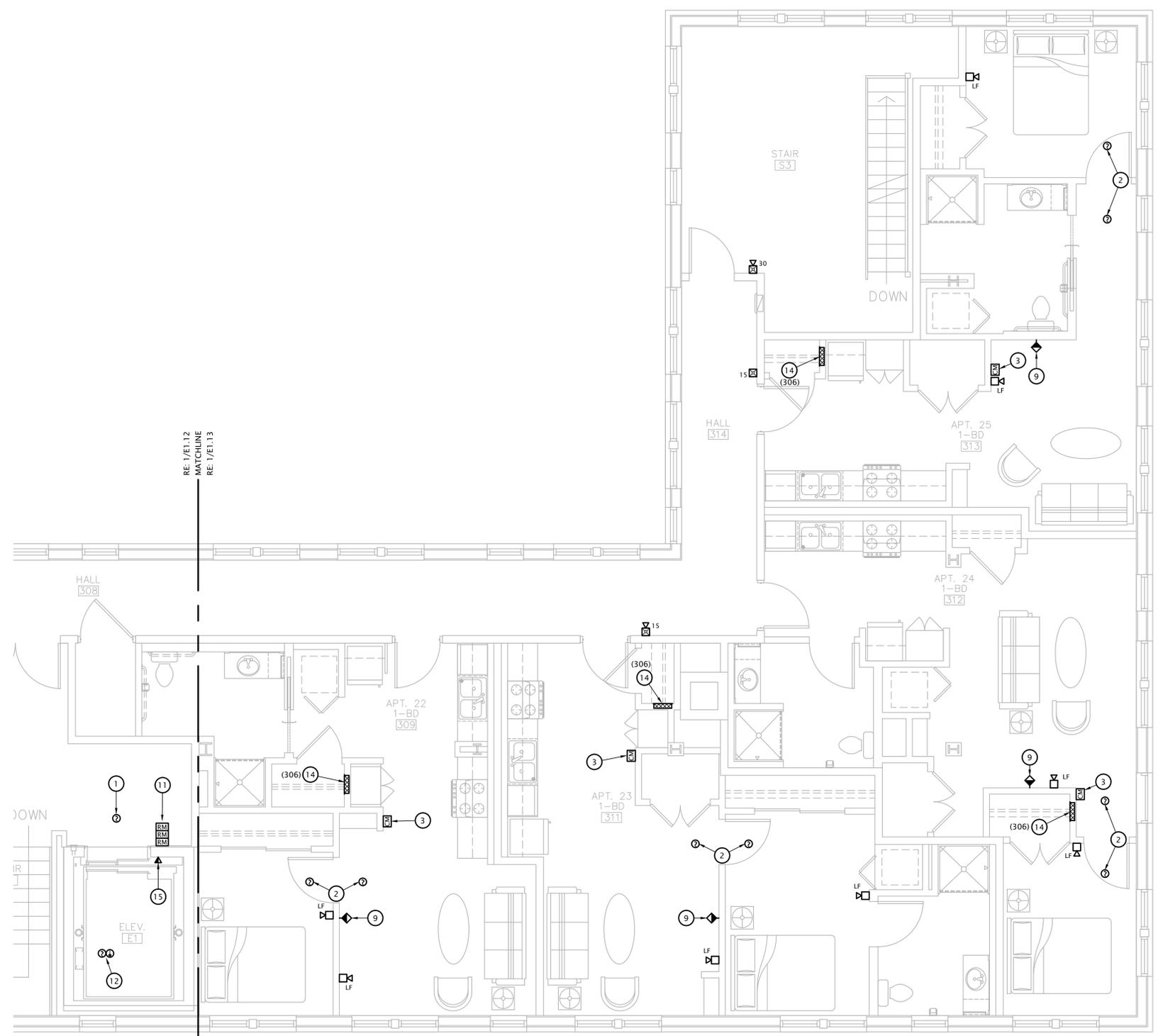
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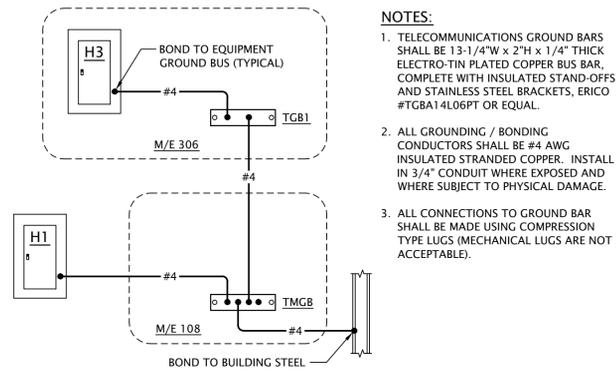


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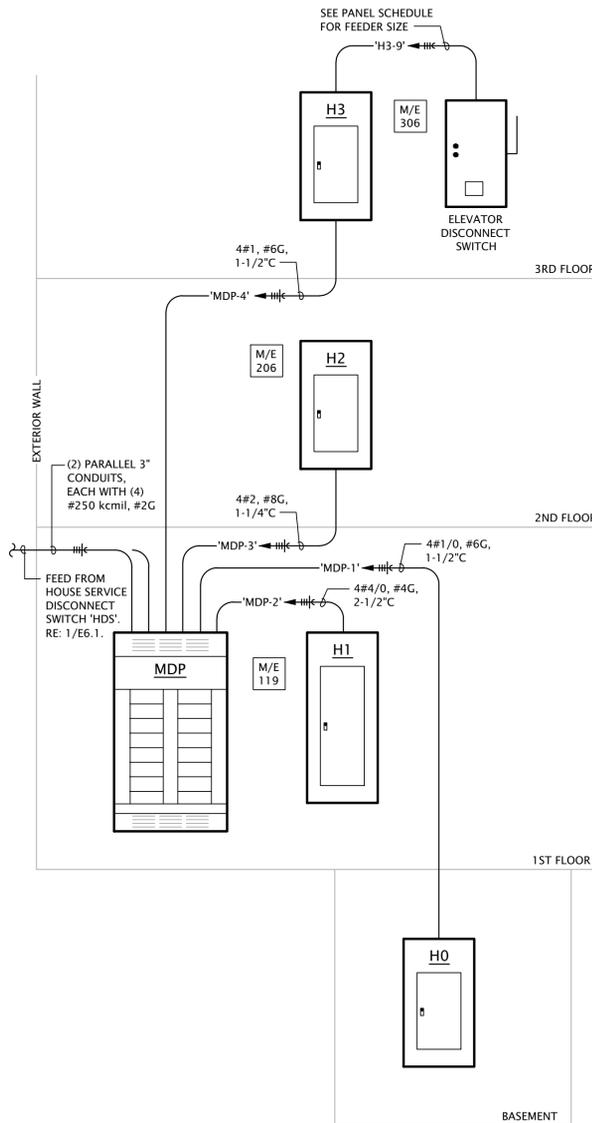
1 PARTIAL THIRD FLOOR SPECIAL SYSTEMS PLAN
 1/4" = 1'-0"



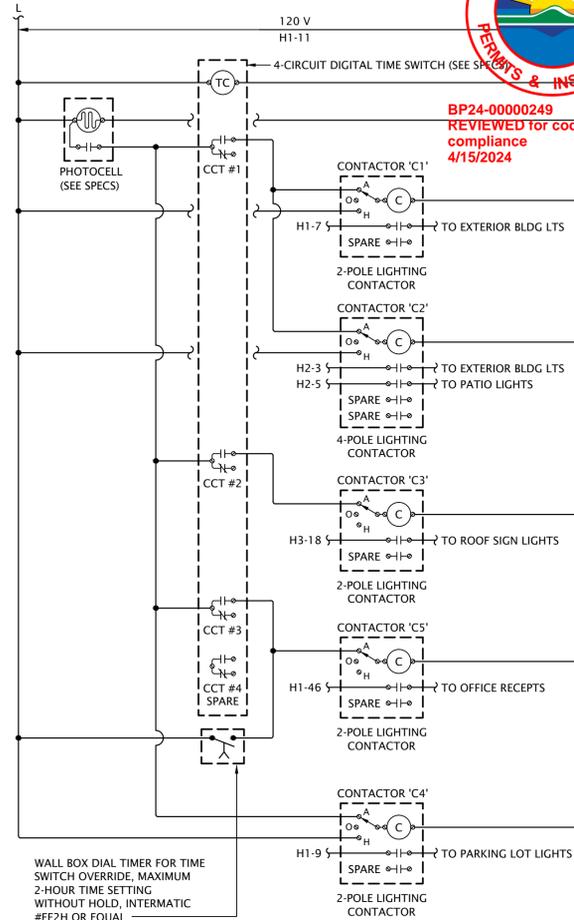


- NOTES:**
- TELECOMMUNICATIONS GROUND BARS SHALL BE 1 3/4" W x 2" H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TG8A14L06PT OR EQUAL.
 - ALL GROUNDING / BONDING CONDUCTORS SHALL BE #4 AWG INSULATED STRANDED COPPER. INSTALL IN 3/4" CONDUIT WHERE EXPOSED AND WHERE SUBJECT TO PHYSICAL DAMAGE.
 - ALL CONNECTIONS TO GROUND BAR SHALL BE MADE USING COMPRESSION TYPE LUGS (MECHANICAL LUGS ARE NOT ACCEPTABLE).

6 TELECOM GROUNDING & BONDING DIAGRAM
 No Scale

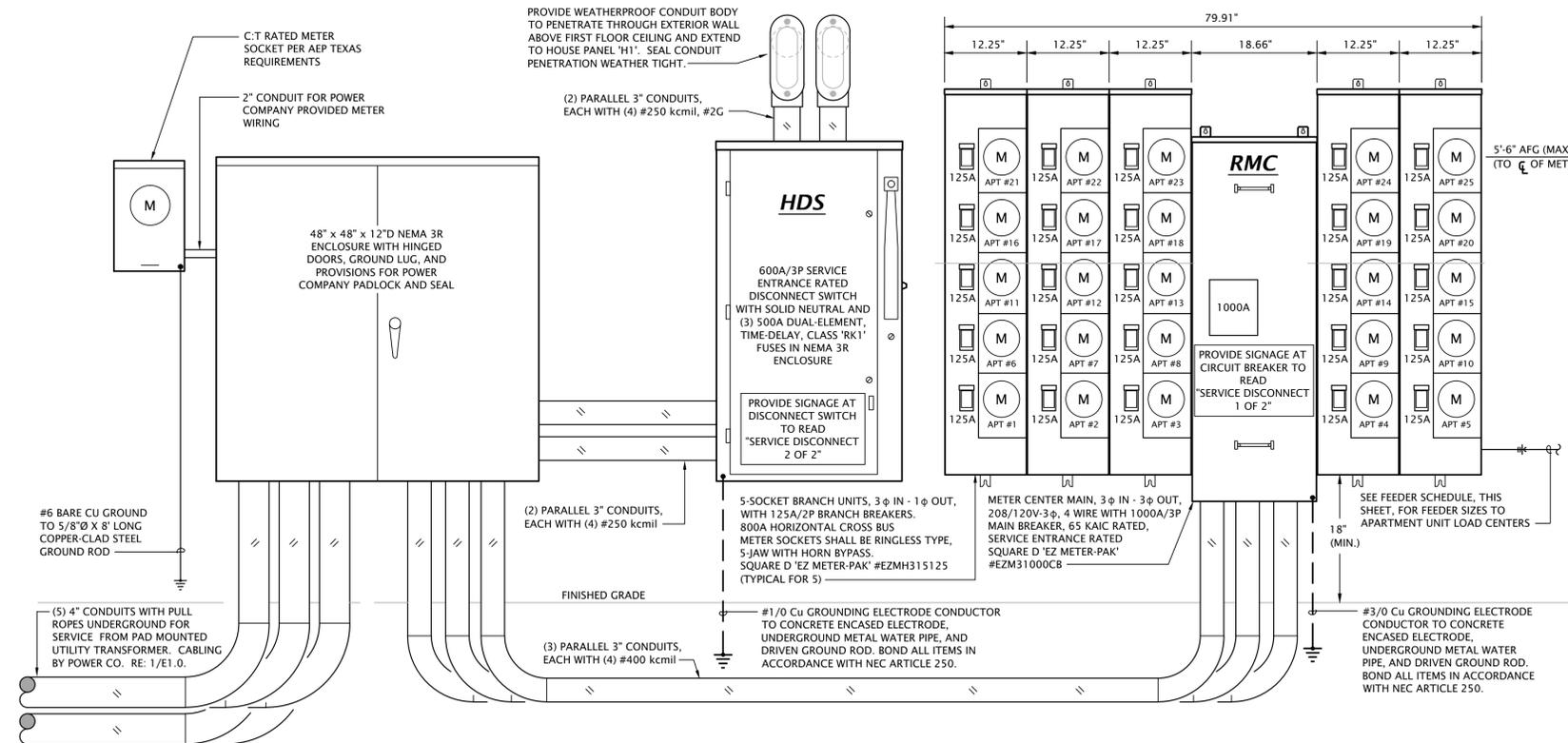


2 ELECTRICAL RISER DIAGRAM - HOUSE DISTRIBUTION
 No Scale

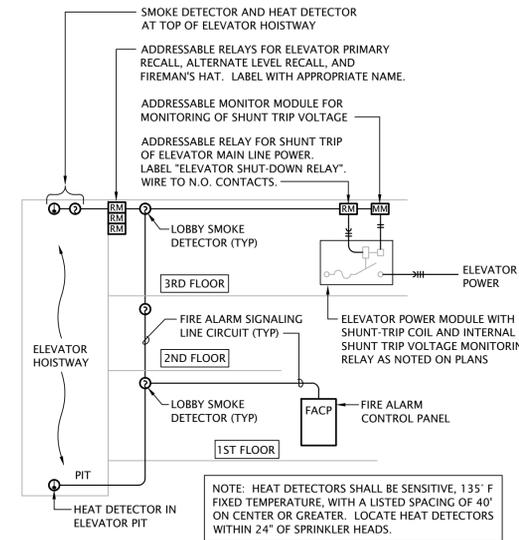


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5 LIGHTING CONTROL DIAGRAM
 No Scale



1 ELECTRICAL RISER DIAGRAM - SERVICE EQUIPMENT
 No Scale



- ELEVATOR SEQUENCE OF OPERATION: (DURING SMOKE/HEAT ALARM)**
- UPON SENSING SMOKE FROM ELEVATOR LOBBY(S) OR HOISTWAY, THE SMOKE DETECTOR SHALL SIGNAL THE FACP, WHICH WILL FORWARD THE SIGNAL TO THE ELEVATOR LOGIC CONTROLLER TO RECALL ELEVATOR CAB TO THE DESIGNATED MAIN FLOOR. IF DESIGNATED 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.
 - ALL SMOKE DETECTORS SHALL TRANSMIT A SEPARATE AND DISTINCT VISIBLE ANNUNCIATION AT THE FACP AND ANNUNCIATOR PANEL.
 - HEAT DETECTORS IN THE ELEVATOR HOISTWAY WILL SEND A SIGNAL TO THE SHUNT-TRIP SWITCH POWERING THE ELEVATOR SO AS TO SHUT DOWN POWER TO THAT CIRCUIT. (THIS IS A NON-AUTO RESET SWITCH). WHEN THE SPRINKLER HEAD HAS REACHED ITS CRITICAL TEMPERATURE OF 165° F., THE HEAD WILL BEGIN DISCHARGE OF WATER.

4 ELEVATOR INTERLOCK WITH FIRE ALARM
 No Scale

APARTMENT FEEDER SCHEDULE	
Apartment #	Feeder Size
#1 (109), #2 (112), #3 (113), #4 (114), #5 (118), #9 (127) #10 (201), #11 (202), #12 (203), #13 (207), #14 (209) #18 (301), #19 (302), #21 (307)	COPPER (BASE BID): (3)#2, #6G IN 1-1/4" C OR MC-CABLE ALUMINUM (ALTERNATE BID): (3)#1/0, #4G IN 1-1/4" C OR MC-CABLE
#6 (122), #8 (126) #15 (211), #17 (213) #20 (303), #22 (309)	COPPER (BASE BID): (3)#1, #4G IN 1-1/4" C OR MC-CABLE ALUMINUM (ALTERNATE BID): (3)#2/0, #2G IN 1-1/2" C OR MC-CABLE
#7 (123) #16 (212) #23 (311), #24 (312), #25 (313)	COPPER (BASE BID): (3)#1/0, #3G IN 1-1/2" C OR MC-CABLE ALUMINUM (ALTERNATE BID): (3)#3/0, #1G IN 2" C OR MC-CABLE

NOTES:
 1. Voltage drop has been accounted for in sizes indicated, further up-sizing of feeders is not necessary
 2. Ensure panel lugs are adequately sized to handle up-sized feeders.

- NOTES:**
- Meter center main circuit breaker shall be 65 kAIC fully rated. Feeder breakers may be series rated with main breaker for a 65 kAIC rating.
 - All conductor sizes are based on copper, U.N.O.
 - Entire installation shall comply with NEC.
 - Coordinate all responsibilities and requirements with power utility company and pay associated fees. Contact information:
AEP Texas
Jacob D Carson
Technician Sr.
(325) 657-2821
jdcarsont@aep.com
 - Coordinate final location of meter assemblies with utility company. Provide shop drawings of proposed equipment whether as specified or substituted to utility company for approval.
 - All meter center components shall be NEMA 3R.
 - All dimensions based on Square D equipment. It is the contractor's responsibility to verify the dimensions of substitute equipment.
 - For each meter, provide a permanent brass, copper or aluminum tag identifying the apartment served. Tags shall be securely fastened to the meter base and be stamped with 1/8" letters, minimum.



APARTMENT LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	LAMP DATA		BALLAST/LED DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
			#	TYPE					
A	KICHLER	45650NBR	5	4W LED E12	STANDARD	WALL AT 88" AFF TO CENTER	NATURAL BRASS	32" 5 LIGHT LINEAR VANITY LIGHT	
B	SEAGULL	4423003EN3-710	3	9.5W LED	STANDARD	WALL AT 7'-0" AFF TO CENTER	BURNT SIENNA	3 LAMP VANITY LIGHT	
C	JESCO	DL-AC-FLEX2-NPX-FR-3090	---	6W/FT LED 312 LUMENS/FT	STANDARD	COVE	WHITE	LINEAR LINE VOLTAGE LED STRIP LIGHT, LENGTH AS NOTED ON DRAWINGS	
D	SHADES OF LIGHT	CH23110 AB	6	5W LED E12	STANDARD	PENDANT	AGED BRASS	6 LIGHT CHANDELIER	
E	DUAL-LITE	EV2I	2	1W LED	N/A	WALL AT 7'-6" AFF	WHITE	TWIN HEAD EMERGENCY LIGHT	3
F	ELEGANT LIGHTING	LD5027	4	4W LED E12	STANDARD	PENDANT	ANTIQUE BRONZE	4 LIGHT CLEAR CRYSTAL PENDANT	
G	WAC LIGHTING	F-060-MB	---	N/A	N/A	SURFACE	MATTE BLACK	52"Ø, 3-BLADE CEILING FAN	
H	METALUX	4WNLED-LD4-40SL-F-UNV-L835-CD1	---	30W LED 4,000 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	4' UTILITY WRAPAROUND WITH FROSTED ACRYLIC PRISMATIC LENS	
J	HALO	SMD6R-12-930-WH	---	15W LED 1,200 LUMENS	PHASE DIMMING	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	4
J1	HALO	SMD6R-12-930-WH-E	---	15W LED 1,200 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	
K	METALUX	4SNLED-LD5-50SL-LW-UNV-L835-CD1	---	46W LED 5,251 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	4' LED STRIP WITH FROSTED LENS, WIDE DISTRIBUTION	
L	METALUX	2SNLED-LD5-23SL-LW-UNV-L835-CD1	---	21W LED 2,453 LUMENS	0-10V DIMMING (10%-100%)	SURFACE	WHITE	2' LED STRIP WITH FROSTED LENS, WIDE DISTRIBUTION	
M	VISUAL COMFORT & CO	EW1151BBS	1	8W LED A19	INTEGRAL TO LAMP	WALL AT 78" AFF	BURNISHED BRASS	DECORATIVE WALL SCONCE	
N	VISUAL COMFORT & CO	7000WVND-8-LED	---	20W LED 184 LUMENS	STANDARD	WALL AT 78" AFF	BLACK	EXTERIOR WALL SCONCE	4
P	METALUX	4APVTL-D-SL3C3	---	32W LED 4600 LUMENS	STANDARD	SURFACE	WHITE	4' FULLY ENCLOSED AND GASKETED INDUSTRIAL VAPORTITE WITH IMPACT RESISTANT DIFFUSE POLYCARBONATE LENS	4
Q1	GARDCO	GBS-A02-830-T2M GF-WS-BK	---	17W LED 1,467 LUMEN	STANDARD	WALL AT 9'-6" AFF	BLACK	IES TYPE 2 EXTERIOR WALL SCONCE, SURFACE MOUNT BOX	4
Q2	GARDCO	GBS-B02-830-PEN GF-WS-BK	---	18W LED 1,467 LUMEN	STANDARD	WALL AT 4'-0" AFF	BLACK	PENCIL BEAM EXTERIOR WALL SCONCE AIMED UPWARD, SURFACE MOUNT BOX	4
R	GARDCO	PWS-48L-300-WW-G2-3-120-BK PWS-WS-G2	---	47W LED 5,667 LUMENS	STANDARD	WALL AT 10'-0" AFF	BLACK	DIE-CAST ALUMINUM WALL PACK, IES TYPE III DISTRIBUTION, SURFACE MOUNT BOX	4
S	GARDCO	ECF-S-32L-1A-NW-G2-AR-2-UNV-BL-IMR17-HIS-BZ	---	106W LED 13,685 LUMENS	0-10V DIMMING	20" RSS POLE	BRONZE	DIE CAST ALUMINUM AREA LIGHT, IES TYPE II DISTRIBUTION, HOUSE SIDE SHIELD	4, 5, 6
T	GARDCO	FLDS-A01-740-7x6-YOK-UNV-BZ	---	29 W LED 3,400 LUMENS	STANDARD	YOKE	BRONZE	DIE CAST ALUMINUM FLOOD LIGHT, NEMA 7x6 WIDE FLOOD DISTRIBUTION	4
X	MULE	MXBRU-SD	---	RED LED LETTERS	N/A	WALL/CEILING/END	WHITE	UNIVERSAL SINGLE/DOUBLE FACE THERMOPLASTIC EXIT SIGN WITH BREAK-OUT CHEVRONS AND INTEGRAL BATTERY BACKUP	1, 2
XE	MULE	SQC-LED-U-R-WW-SD	---	RED LED LETTERS 1W LED HEADS	N/A	WALL/CEILING	WHITE	UNIVERSAL SINGLE/DOUBLE FACE COMBO EXIT SIGN/TWIN HEAD EMERGENCY LIGHT WITH CHEVRONS AND BATTERY BACKUP	1, 2
XER	MULE	SQC-LED-U-R-WW-SD/REM R-ASRLED-1-WP-BL	---	RED LED LETTERS (2) 1W LED HEADS (1) 1W REMOTE HEAD	N/A	WALL/CEILING	WHITE	UNIVERSAL SINGLE/DOUBLE FACE COMBO EXIT SIGN/TWIN HEAD EMERGENCY LIGHT WITH CHEVRONS AND REMOTE BATTERY CAPACITY FOR EXTERIOR REMOTE HEAD	1, 2, 7

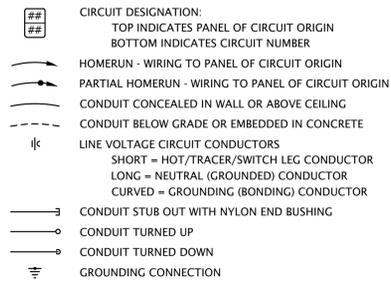
GENERAL:

- All LED fixtures shall be provided with drivers capable of operating at 120V.
- All exterior fixtures shall be 4000°K color temperature.
- All interior fixtures shall be 3000°K color temperature.
- All apartment light fixtures and ceiling fans shall be Energy Star rated.

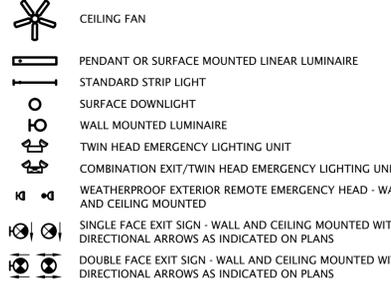
NOTES:

- Fixture shall have self-diagnostic/self-testing electronics.
- Provide with emergency battery integral charger.
- Provide with test switch, status indicator and rechargeable nickel-cadmium battery for 90 minutes of emergency power.
- Fixture shall be U.L. listed for wet locations.
- Provide luminaire with integral PIR motion sensor to dim fixture to 50% output when motion has not been detected for 15 minutes or more.
- Provide with 20' square straight steel pole with vibration isolation damper, bronze to match fixture. Assembly shall be rated for 110 mph wind loads.
- Provide direct current power wiring from combo unit to exterior remote head. Wiring shall be 2#10 in 1/2" C.

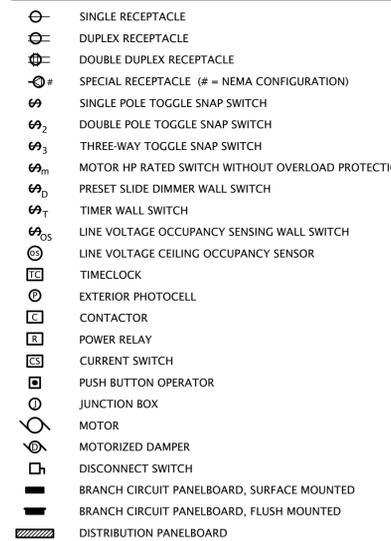
CIRCUIT AND RACEWAY SYMBOLS



LIGHTING SYMBOLS



POWER SYMBOLS



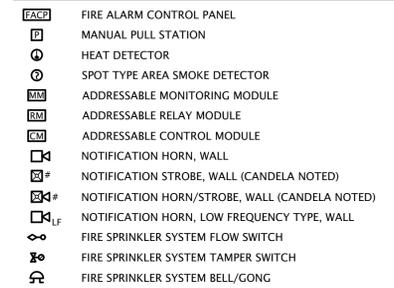
SITE ELECTRICAL SYMBOLS



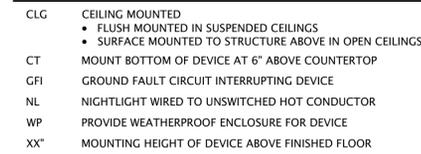
TELECOMMUNICATIONS SYMBOLS



FIRE ALARM SYMBOLS

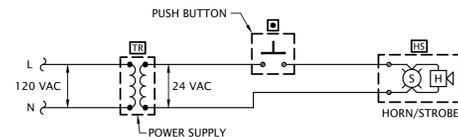


SYMBOL MODIFYING DESIGNATORS



ABBREVIATIONS

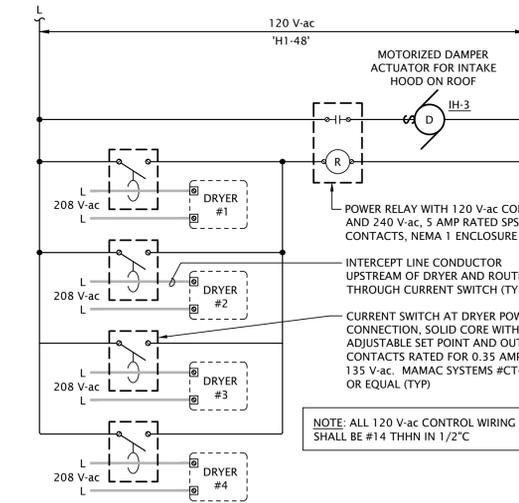
A	AMPERE
ac	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
dc	DIRECT CURRENT
E	ELECTRICAL
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
G	GROUNDING (BONDING) CONDUCTOR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
kcmil	THOUSAND CIRCULAR MILLS
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE (NFPA 70)
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PH or φ	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
RCPT	RECEPTACLE
TYP	TYPICAL
U.L.	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLT (ALTERNATING CURRENT)
VA	VOLT-AMPERE
W	WATT(S)



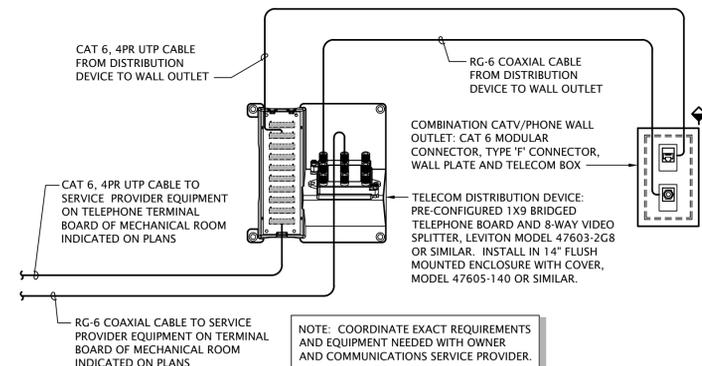
DOOR ALARM BUZZER SYSTEM NOTES

- PROVIDE DOOR ANNUNCIATOR SYSTEM COMPLETE WITH PUSH BUTTON, HORN/STROBE(S), POWER SUPPLIES AND ALL WIRING REQUIRED. HORN/STROBE SHALL ACTIVATE WHEN PUSH BUTTON IS DEPRESSED.
- HORN/STROBE SHALL OPERATE AT 24VAC, HAVE A CLEAR LENS WITH 50cd STROBE AND HORN WITH 82dB AT 10', UL 1638 LISTED, EDWARDS #6536-G5. FLUSH MOUNT IN WALL AT 6'-8" AFF.
- PUSH BUTTON SHALL BE WHITE WITH CHROME RIM, NON-ILLUMINATED, WITH N.O. MOMENTARY CONTACTS, RATED FOR 0.67 AMPS AT 24VAC, EDWARDS #620. PROVIDE WITH STAINLESS STEEL COVER PLATE, EDWARDS #147-10. MOUNT AT 48" AFF.
- POWER SUPPLY SHALL BE A LOW VOLTAGE CLASS 2 TRANSFORMER WITH 120VAC PRIMARY AND 24VAC SECONDARY, 20VA, EDWARDS #598. FLUSH MOUNT IN 2-GANG WALL BOX WITH BLANK COVER PLATE, DIRECTLY ABOVE HORN/STROBE.
- LOW VOLTAGE CLASS 2 CABLING SHALL BE MINIMUM 18 AWG UNSHIELDED.

3 APARTMENT DOORBELL WIRING SCHEMATIC
No Scale



2 DRYER MAKE-UP AIR CONTROL DIAGRAM
No Scale



1 APARTMENT TELECOM WIRING SCHEMATIC
NO SCALE



REVISION:

DATE:	1-16-2024
JOB:	21-3166
SHEET NO.:	



Panel Designation: 1BR APT # **Mounting:** Flush
Location: 1 Bedroom Apartment **Bus Amps:** 125
Voltage: 208/120V-1Ph-3W **MCB Amps:** MLO
Enclosure: NEMA 1 **Other:** 10 KAIC
 Panel is typical for 1BR units

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
2	1 CLOSET RCPT (TELECOM)	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	KITCHEN/LIVING/HALL LTS	2
3	3 DISHWASHER/DISPOSAL	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	CLOTHES WASHER RCPT	4
3	5 HOOD/MICROWAVE	2#12, #12G, 1/2" C	20 / 1	30 / 2	3#10, #10G, 3/4" C	CLOTHES DRYER	6
3	7 REFRIGERATOR	2#12, #12G, 1/2" C	20 / 1				8
3	9 COUNTER TOP RCPTS	2#12, #12G, 1/2" C	20 / 1	40 / 2	3#8, #10G, 1" C	RANGE	10
3	11 COUNTER TOP RCPTS	2#12, #12G, 1/2" C	20 / 1				12
2	13 LIVING ROOM RCPTS	2#12, #12G, 1/2" C	20 / 1	25 / 2	2#10, #10G, 3/4" C	HEAT PUMP 'HP'	14
	15 BATHROOM	2#12, #12G, 1/2" C	20 / 1				16
2	17 BEDROOM	2#12, #12G, 1/2" C	20 / 1	45 / 2	2#6, #10G, 3/4" C	BLOWER COIL 'BC'	18
	19 SPACE ONLY	--	--				20
	21 SPACE ONLY	--	--	30 / 2	2#10, #10G, 3/4" C	WATER HEATER 'HWH'	22
	23 SPACE ONLY	--	--				24

BP24-0000249
REVIEWED FOR code compliance 1/15/2024
Designation: H2 **Manufacturer:** Square D 'NQ'
Location: M/E 306 **Bus Amps:** 100
Voltage: 208Y/120V-3Ph-4W **MCB Amps:** MLO
Enclosure: NEMA 1 **AIC Rating:** 10 KAIC
Mounting: Surface

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	LTG: HALL/STAIR	2#12, #12G, 1/2" C	20 / 1	60 / 2	2#4, #10G, 3/4" C	'BC-4' (CIRCUIT #1)	2
3	LTG: EXTERIOR UPLIGHTS	2#12, #12G, 1/2" C	20 / 1				4
5	LTG: PATIO LIGHTS	2#12, #12G, 1/2" C	20 / 1	45 / 2	2#6, #10G, 3/4" C	'BC-4' (CIRCUIT #2)	6
7	RCPT: HALL W	2#12, #12G, 1/2" C	20 / 1				8
9	RCPT: HALL E	2#12, #12G, 1/2" C	20 / 1	20 / 1	--	SPARE BREAKER	10
11	RCPT: PATIO	2#12, #12G, 1/2" C	20 / 1	20 / 1	--	SPARE BREAKER	12
13	SPACE ONLY	--	--	--	--	SPACE ONLY	14
15	SPACE ONLY	--	--	--	--	SPACE ONLY	16
17	SPACE ONLY	--	--	--	--	SPACE ONLY	18
19	SPACE ONLY	--	--	--	--	SPACE ONLY	20
21	SPACE ONLY	--	--	--	--	SPACE ONLY	22
23	SPACE ONLY	--	--	--	--	SPACE ONLY	24
25	SPACE ONLY	--	--	--	--	SPACE ONLY	26
27	SPACE ONLY	--	--	--	--	SPACE ONLY	28
29	SPACE ONLY	--	--	--	--	SPACE ONLY	30

Designation: H0 **Manufacturer:** Square D 'NQ'
Location: Basement **Bus Amps:** 225
Voltage: 208Y/120V-3Ph-4W **MCB Amps:** MLO
Enclosure: NEMA 1 **AIC Rating:** 10 KAIC
Mounting: Surface

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	'HWH-B' (NORTH)	3#6, #10G, 3/4" C	60 / 3	20 / 1	2#12, #12G, 1/2" C	BASEMENT LIGHTS	2
3				20 / 1	2#12, #12G, 1/2" C	BASEMENT HEATER 'EWH-4'	4
5				20 / 1	2#12, #12G, 1/2" C	HW RECIRC PUMP 'HWP'	6
7				20 / 1	2#12, #12G, 1/2" C	BASEMENT RCPTS	8
9	'HWH-B' (MID)	3#6, #10G, 3/4" C	60 / 3	20 / 1	2#12, #12G, 1/2" C	FIRE SPRINKLER FLOW/BELL	10
11				20 / 1	2#12, #12G, 1/2" C	SEWAGE EJECTOR CONTROL	12
13				20 / 1	2#12, #12G, 1/2" C	SEWAGE EJECTOR PUMP	14
15	'HWH-B' (SOUTH)	3#6, #10G, 3/4" C	60 / 3	--	--	SPACE ONLY	16
17				--	--	SPACE ONLY	18
19	SPACE ONLY	--	--	--	--	SPACE ONLY	20
21	SPACE ONLY	--	--	--	--	SPACE ONLY	22
23	SPACE ONLY	--	--	--	--	SPACE ONLY	24
25	SPACE ONLY	--	--	--	--	SPACE ONLY	26
27	SPACE ONLY	--	--	--	--	SPACE ONLY	28
29	SPACE ONLY	--	--	--	--	SPACE ONLY	30

Panel Designation: 2BR APT # **Mounting:** Flush
Location: 2 Bedroom Apartment **Bus Amps:** 125
Voltage: 208/120V-1Ph-3W **MCB Amps:** MLO
Enclosure: NEMA 1 **Other:** 10 KAIC
 Panel is typical for 2BR units

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
2	1 CLOSET RCPT (TELECOM)	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	KITCHEN/LIVING/HALL LTS	2
3	3 DISHWASHER/DISPOSAL	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	CLOTHES WASHER RCPT	4
3	5 HOOD/MICROWAVE	2#12, #12G, 1/2" C	20 / 1	30 / 2	3#10, #10G, 3/4" C	CLOTHES DRYER	6
3	7 REFRIGERATOR	2#12, #12G, 1/2" C	20 / 1				8
3	9 COUNTER TOP RCPTS	2#12, #12G, 1/2" C	20 / 1	40 / 2	3#8, #10G, 1" C	RANGE	10
3	11 COUNTER TOP RCPTS	2#12, #12G, 1/2" C	20 / 1				12
2	13 LIVING ROOM RCPTS	2#12, #12G, 1/2" C	20 / 1	25 / 2	2#10, #10G, 3/4" C	HEAT PUMP 'HP'	14
	15 BATHROOM	2#12, #12G, 1/2" C	20 / 1				16
2	17 BEDROOM	2#12, #12G, 1/2" C	20 / 1	45 / 2	2#6, #10G, 3/4" C	BLOWER COIL 'BC'	18
2	19 BEDROOM	2#12, #12G, 1/2" C	20 / 1				20
	21 SPACE ONLY	--	--	30 / 2	2#10, #10G, 3/4" C	WATER HEATER 'HWH'	22
	23 SPACE ONLY	--	--				24

Designation: H3 **Manufacturer:** Square D 'NQ'
Location: M/E 306 **Bus Amps:** 225
Voltage: 208Y/120V-3Ph-4W **MCB Amps:** MLO
Enclosure: NEMA 1 **AIC Rating:** 10 KAIC
Mounting: Surface

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	LTG: HALL/STAIR	2#12, #12G, 1/2" C	20 / 1	20 / 2	2#12, #12G, 1/2" C	HEAT PUMP 'HP-1.5'	2
3	ROOFTOP SIGN LIGHTS	2#12, #12G, 1/2" C	20 / 1				4
5	RCPT: ROOF	2#10, #10G, 1/2" C	20 / 1	40 / 2	2#8, #10G, 3/4" C	HEAT PUMP 'HP-4'	6
7							8
9	ELEVATOR	3#4, #8G, 1" C	70 / 3	40 / 2	2#8, #10G, 3/4" C	OUTDOOR A/C UNIT 'OU-1'	10
11							12
13	ELEVATOR CAB LTS/EXH.	2#12, #12G, 1/2" C	20 / 1	15 / 2	2#12, #12G, 1/2" C	OUTDOOR A/C UNIT 'OU-2'	14
15	ELEV. HOISTWAY RCPT	2#12, #12G, 1/2" C	20 / 1				16
17	ELEV. HOISTWAY LIGHT	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	ROOF SIGN LIGHTING	18
19	RCPT: TELECOM BD	2#12, #12G, 1/2" C	20 / 1	20 / 1	--	SPARE BREAKER	20
21	RCPT: HALL W	2#12, #12G, 1/2" C	20 / 1	20 / 1	--	SPARE BREAKER	22
23	RCPT: HALL E	2#12, #12G, 1/2" C	20 / 1	20 / 1	--	SPARE BREAKER	24
25	SPACE ONLY	--	--	--	--	SPACE ONLY	26
27	SPACE ONLY	--	--	--	--	SPACE ONLY	28
29	SPACE ONLY	--	--	--	--	SPACE ONLY	30

Designation: H1 **Manufacturer:** Square D 'NQ'
Location: M/E 119 **Bus Amps:** 225
Voltage: 208Y/120V-3Ph-4W **MCB Amps:** MLO
Enclosure: NEMA 1 **AIC Rating:** 25 KAIC
Mounting: Surface

Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #
1	LTG: OFFICE/RESTRMS	2#12, #12G, 1/2" C	20 / 1	15 / 2	2#12, #12G, 1/2" C	OUTDOOR A/C UNIT 'OU-3'	2
3	LTG: HALL/LAUNDRY	2#12, #12G, 1/2" C	20 / 1				4
5	LTG: COMMUNITY RM/HALL	2#12, #12G, 1/2" C	20 / 1	25 / 2	2#10, #10G, 1/2" C	HEAT PUMP 'HP-2.5'	6
7	EXTERIOR WALL LTS	2#12, #12G, 1/2" C	20 / 1				8
9	PARKING LOT POLE LTS	2#10, #10G, 3/4" C	20 / 1	50 / 2	2#6, #10G, 3/4" C	'BC-2.5b' (CIRCUIT #1)	10
11	EXTERIOR LTG CONTROLS	2#12, #12G, 1/2" C	20 / 1				12
13	CLOTHES DRYER	3#10, #10G, 3/4" C	30 / 2	25 / 2	2#10, #10G, 1/2" C	'BC-2.5b' (CIRCUIT #2)	14
15							16
17	CLOTHES DRYER	3#10, #10G, 3/4" C	30 / 2	40 / 2	2#8, #10G, 3/4" C	'BC-1.5'	18
19							20
21	CLOTHES DRYER	3#10, #10G, 3/4" C	30 / 2	20 / 1	2#12, #12G, 1/2" C	WALL HEATER 'EWH-1'	22
23				20 / 1	2#12, #12G, 1/2" C	WALL HEATER 'EWH-2'	24
25	CLOTHES DRYER	3#10, #10G, 3/4" C	30 / 2	20 / 1	2#12, #12G, 1/2" C	WALL HEATER 'EWH-3'	26
27				20 / 1	2#12, #12G, 1/2" C	DRINKING FOUNTAIN	28
29	WASHER	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: TELECOM BOARD	30
31	WASHER	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: PANTRY MICROWAVE	32
33	WASHER	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: HALL W	34
35	WASHER	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: COMMUNITY RM	36
37	EV CHARGING STATION	2#8, #10G, 3/4" C	40 / 2	20 / 1	2#12, #12G, 1/2" C	RCPT: LAUNDRY/JAN	38
39				20 / 1	2#12, #12G, 1/2" C	RCPT: HALL E	40
41	EV CHARGING MAINT. RCPT	2#10, #10G, 3/4" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	FIRE ALARM CONTROL PNL	42
43	ELEVATOR PIT RCPT	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: OFFICE UNSWITCHED	44
45	ELEVATOR PIT LIGHT	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: OFFICE SWITCHED	46
47	ELEVATOR SUMP PUMP ALARM PANEL	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	DRYER MAKE-UP AIR CNTL	48
49	ELEVATOR SUMP PUMP RCPT	2#12, #12G, 1/2" C	20 / 1	20 / 1	2#12, #12G, 1/2" C	RCPT: ROOFTOP	50
51	SPARE BREAKER	--	20 / 1	20 / 1	--	SPARE BREAKER	52
53	SPARE BREAKER	--	20 / 1	20 / 1	--	SPARE BREAKER	54
55	SPACE ONLY	--	--	--	--	SPACE ONLY	56
57	SPACE ONLY	--	--	--	--	SPACE ONLY	58
59	SPACE ONLY	--	--	--	--	SPACE ONLY	60

CIRCUIT BREAKER DISTRIBUTION PANEL SCHEDULE

Circuit #	Equipment Served	Feeder Size	C/B Size	Remarks
1	PANEL 'H0'	SEE RISER DIAGRAM 2/E6.1	150/3	
2	PANEL 'H1'	SEE RISER DIAGRAM 2/E6.1	225/3	
3	PANEL 'H2'	SEE RISER DIAGRAM 2/E6.1	100/3	
4	PANEL 'H3'	SEE RISER DIAGRAM 2/E6.1	125/3	
5	BUSSED SPACE	--	225A	PROVISIONAL SPACE
6	BUSSED SPACE	--	225A	PROVISIONAL SPACE
7	BUSSED SPACE	--	225A	PROVISIONAL SPACE

Notes:
 1. Provide panel with integral surge protection per specifications.

- PANEL SCHEDULE NOTES BY SYMBOL**
- CLASS 'A', 5mA RATED, GROUND FAULT CIRCUIT INTERRUPTING (GFCI) TYPE BREAKER.
 - ARC FAULT CIRCUIT INTERRUPTING (AFCI) TYPE BREAKER.
 - COMBINATION AFCI/GFCI BREAKER.