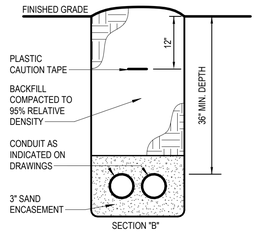
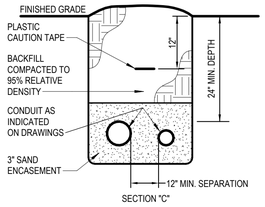


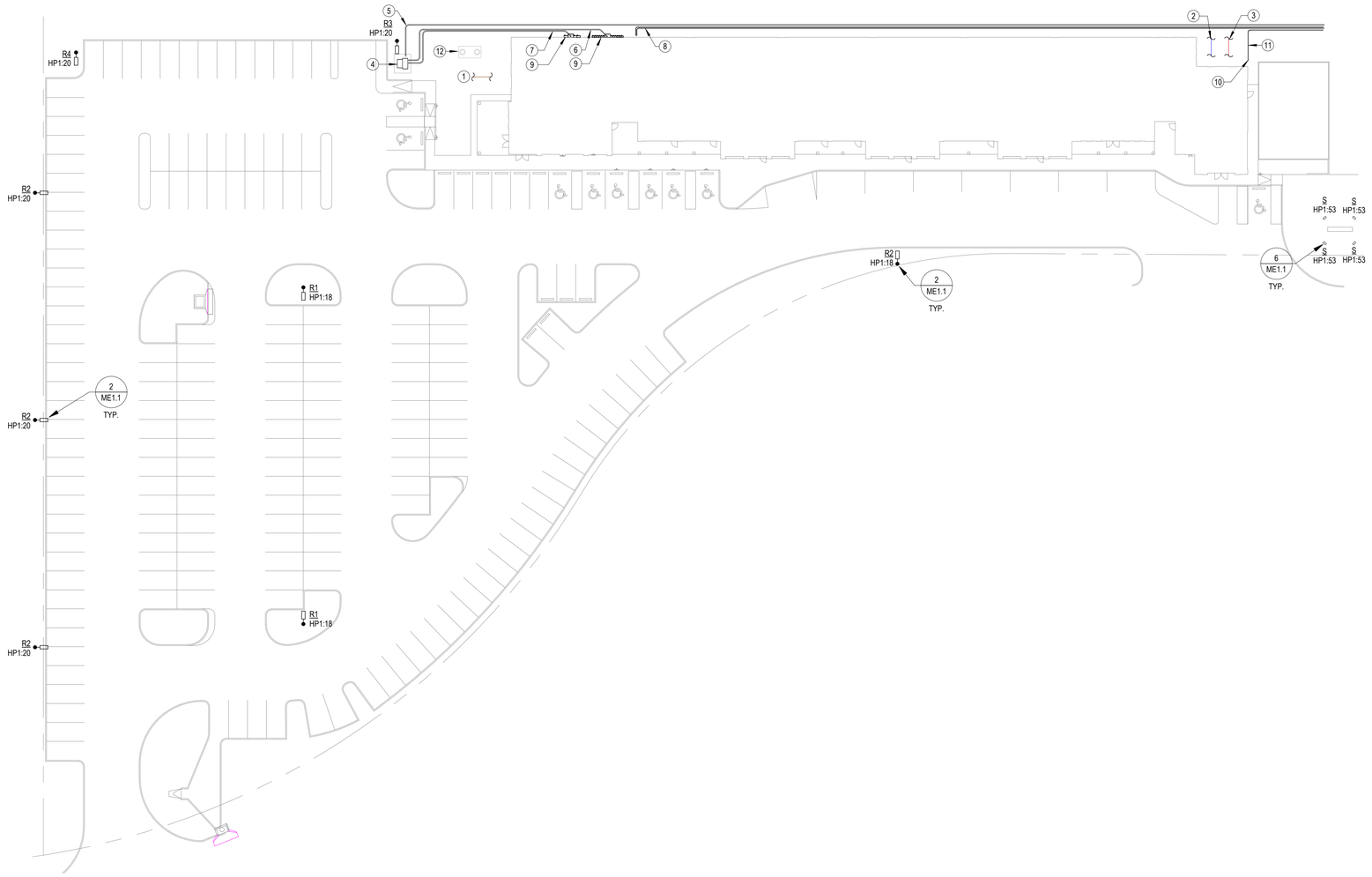
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4 SECONDARY TRENCH SECTION
NO SCALE



5 TELECOMM TRENCH SECTION
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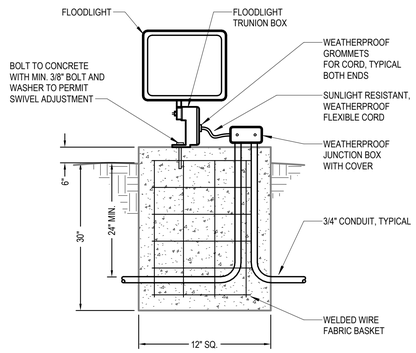


1 MECHANICAL/ELECTRICAL SITE PLAN
1" = 30'-0"

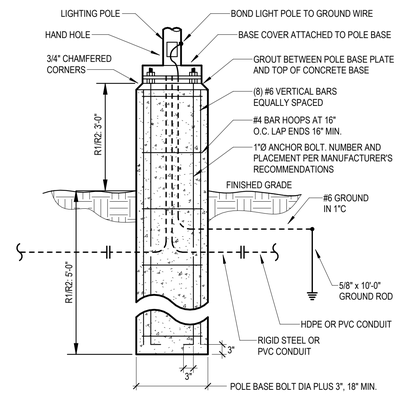
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NOTES BY SYMBOL

1	8" SANITARY SEWER, SEE CIVIL DRAWINGS FOR CONTINUATION.
2	3" DOMESTIC WATER SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION.
3	FIRE SERVICE, SEE CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT REQUIREMENTS WITH FIRE SUPPRESSION SHOP DRAWINGS PROVIDED BY OTHERS.
4	POWER COMPANY PROVIDED PAD MOUNTED UTILITY TRANSFORMER. CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH POWER UTILITY COMPANY PRIOR TO COMMENCING WORK.
5	4" CONDUIT WITH 1/4" PULL ROPE BELOW GRADE FOR POWER COMPANY PROVIDED PRIMARY CABLING. COORDINATE EXACT ROUTING WITH LOCAL POWER COMPANY PRIOR TO COMMENCING WORK. REFERENCE DETAIL 3, THIS SHEET.
6	SERVICE LATERAL TO RESIDENTIAL METER CENTER 'RMC', REFERENCE DETAIL 4, THIS SHEET. ROUTE CONDUIT WITHIN PROPERTY LINE. COORDINATE WITH STORM SEWER.
7	SERVICE LATERAL TO COMMERCIAL METER CENTER 'CMC', REFERENCE DETAIL 4, THIS SHEET. ROUTE CONDUIT WITHIN PROPERTY LINE. COORDINATE WITH STORM SEWER.
8	(2) 2" CONDUITS BELOW GRADE FOR COMMUNICATIONS SERVICES. PROVIDE PULL STRING IN EACH RACEWAY. VERIFY TERMINATION POINT AT PROPERTY LINE WITH LOCAL COMMUNICATIONS ACCESS PROVIDER. REFERENCE DETAIL 5, THIS SHEET.
9	ELECTRIC SERVICE EQUIPMENT. SEE SHEET EP1.1 AND 1:E-6.3 FOR MORE INFORMATION.
10	SEE 1:E4.1 FOR CONTINUATION.
11	ROUTE 2" CONDUIT WITH PULL STRING FROM BUILDING MOUNTED FIRE PUMP METER 'FM' TO UTILITY TRANSFORMERS. COORDINATE EXACT ROUTING AND REQUIREMENTS WITH UTILITY COMPANY.
12	SPACE ALLOCATED FOR FUTURE GREASE INTERCEPTOR.



6 GROUND LIGHT DETAIL
NO SCALE



2 LIGHT POLE BASE DETAIL
NO SCALE

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GODDARD, KANSAS

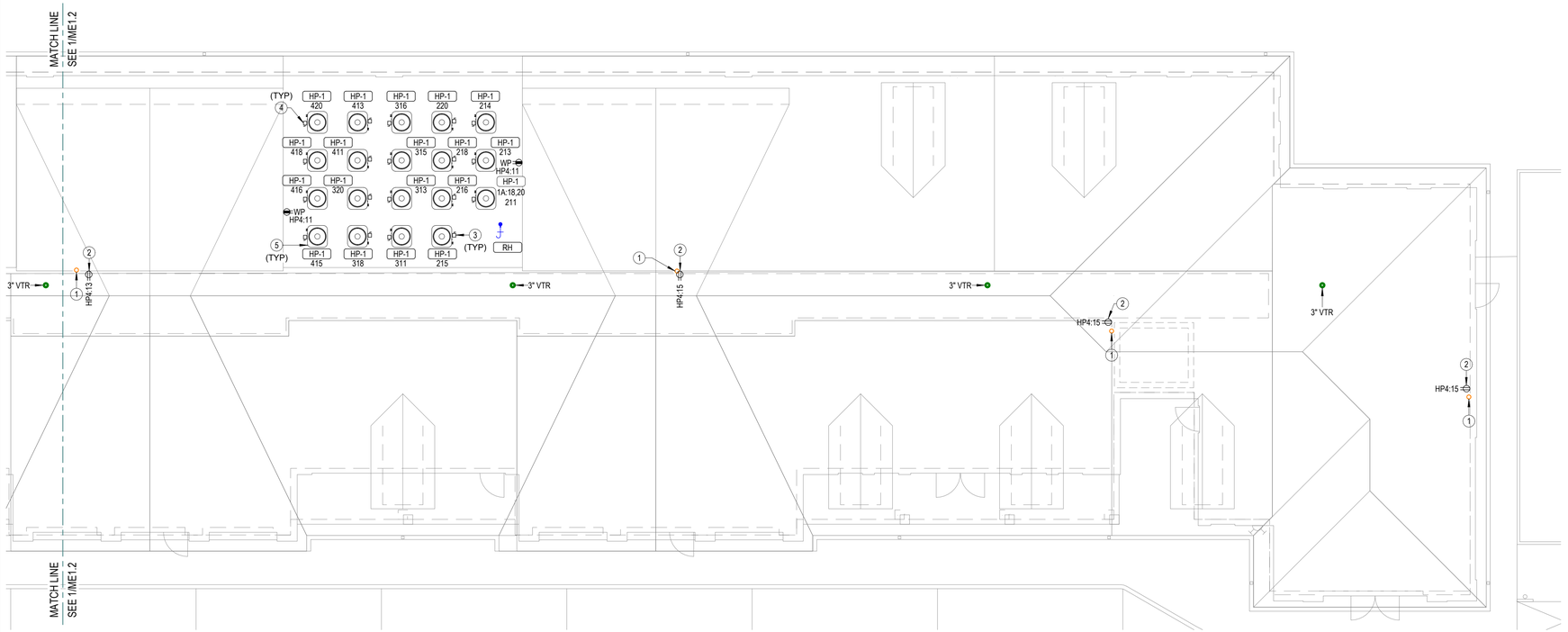
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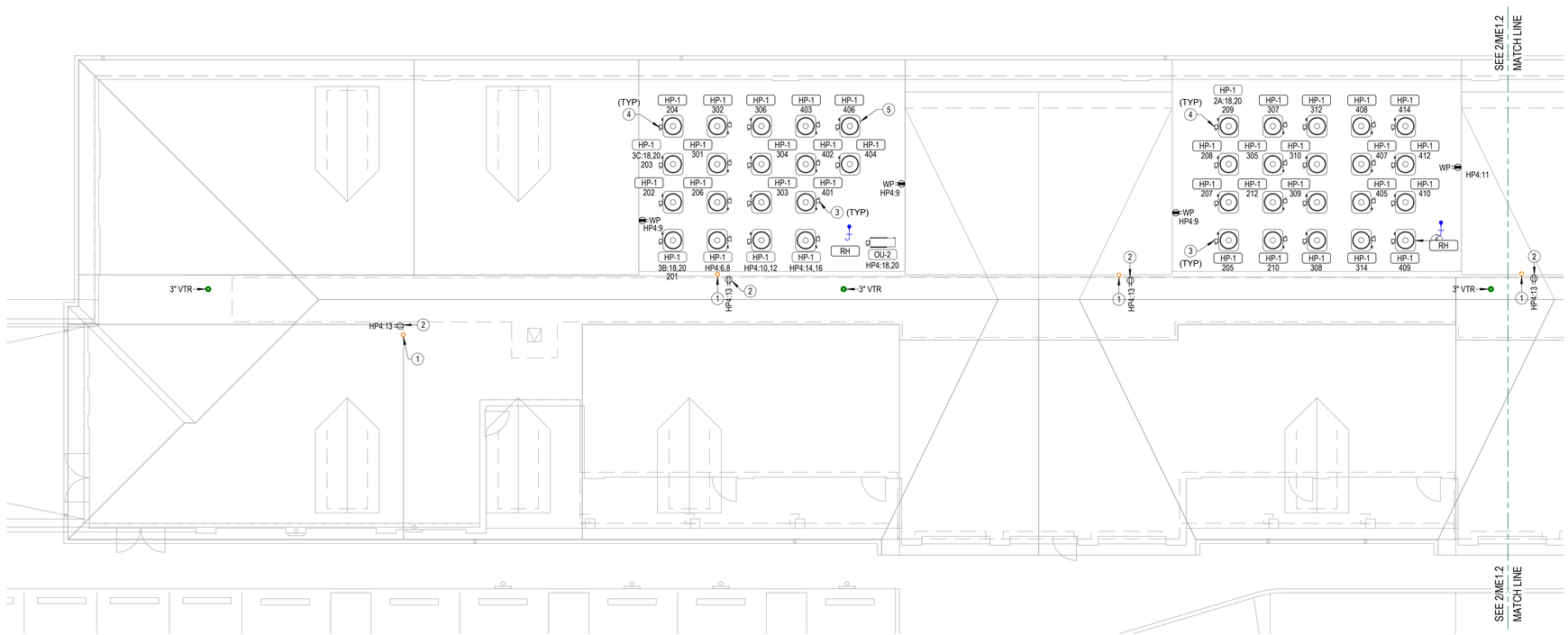
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2 MECHANICAL/ELECTRICAL ROOF PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



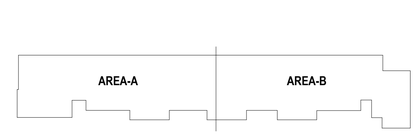
1 MECHANICAL/ELECTRICAL ROOF PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

NOTES BY SYMBOL

1. 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
2. PROVIDE RECEPTACLE IN ATTIC SPACE FOR FUTURE RADON MITIGATION FAN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE 30A/2-POLE, NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE FINAL CONNECTION TO EQUIPMENT IN LFMC RACEWAY. MOUNT TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS. TYPICAL UNLESS NOTED OTHERWISE.
4. WHERE HEAT PUMP IS LOCATED ADJACENT TO WALL, MOUNT DISCONNECT SWITCH TO WALL. PROVIDE RIGID CONDUIT TO BASE OF UNIT AND MAKE FINAL CONNECTION TO EQUIPMENT IN LFMC RACEWAY.
5. ROUTE REFRIGERANT PIPING THROUGH WALL AND DOWN TO MATCHING BLOWER COIL. PENETRATE WALL 18" ABOVE ROOF AND ROUTE CONCEALED IN WALLS AND ABOVE CEILINGS. PROVIDE PIPING PENETRATION ASSEMBLY EQUAL TO RPH WALL VAULT WITH EXIT SEALS FOR REFRIGERANT PIPING AND ELECTRICAL CONDUIT. SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS



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General Plan Symbols

- Plan Revision Number
- Detail Number on Sheet / Sheet Number Where Detail is Placed
- Keynote Symbol
- Continuation Symbol
- Point Where New Connects To Existing
- Room Name / Number (Room 507)
- Area Being Demolished
- Area Not In Contract
- Electrical Equipment. Do not route HVAC installation above or below equipment. Maintain working clearance as indicated by dashed line.

Abbreviations

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

Equipment Abbreviations

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

* NOTE *

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

Plumbing Symbols

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

Pipe Accessory Notes

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

Plumbing Fixture Notes

Floor Drain

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

GENERAL PLUMBING NOTES

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

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PP1.2	WASTE AND VENT-FIRST FLOOR PLAN
PP1.3	WASTE AND VENT-SECOND FLOOR PLAN
PP1.4	WASTE AND VENT-THIRD FLOOR PLAN
PP1.5	WASTE AND VENT-FOURTH FLOOR PLAN
PP1.6	DOMESTIC WATER-FIRST FLOOR PLAN
PP1.7	DOMESTIC WATER-SECOND FLOOR PLAN
PP1.8	DOMESTIC WATER-THIRD FLOOR PLAN
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PP4.1	ENLARGED PLUMBING PLANS
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PP9.5	PLUMBING RISERS

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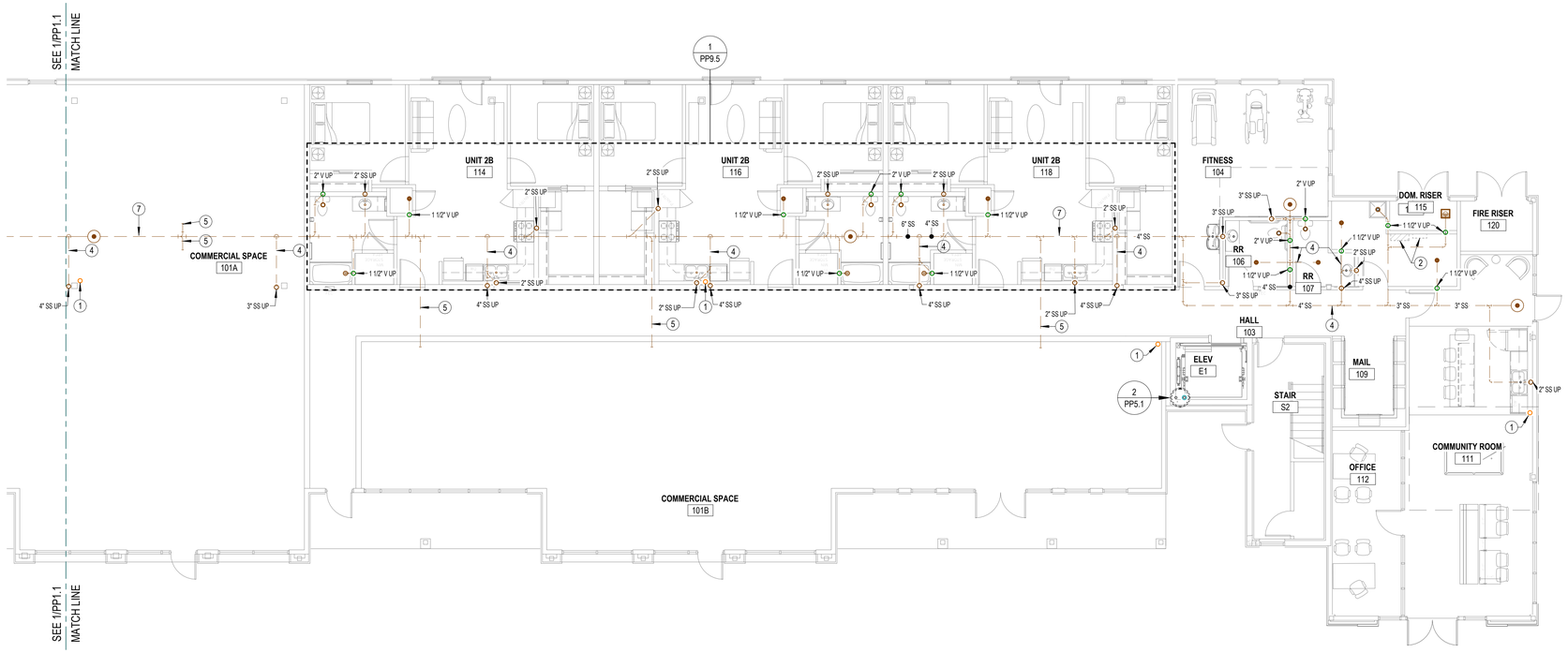
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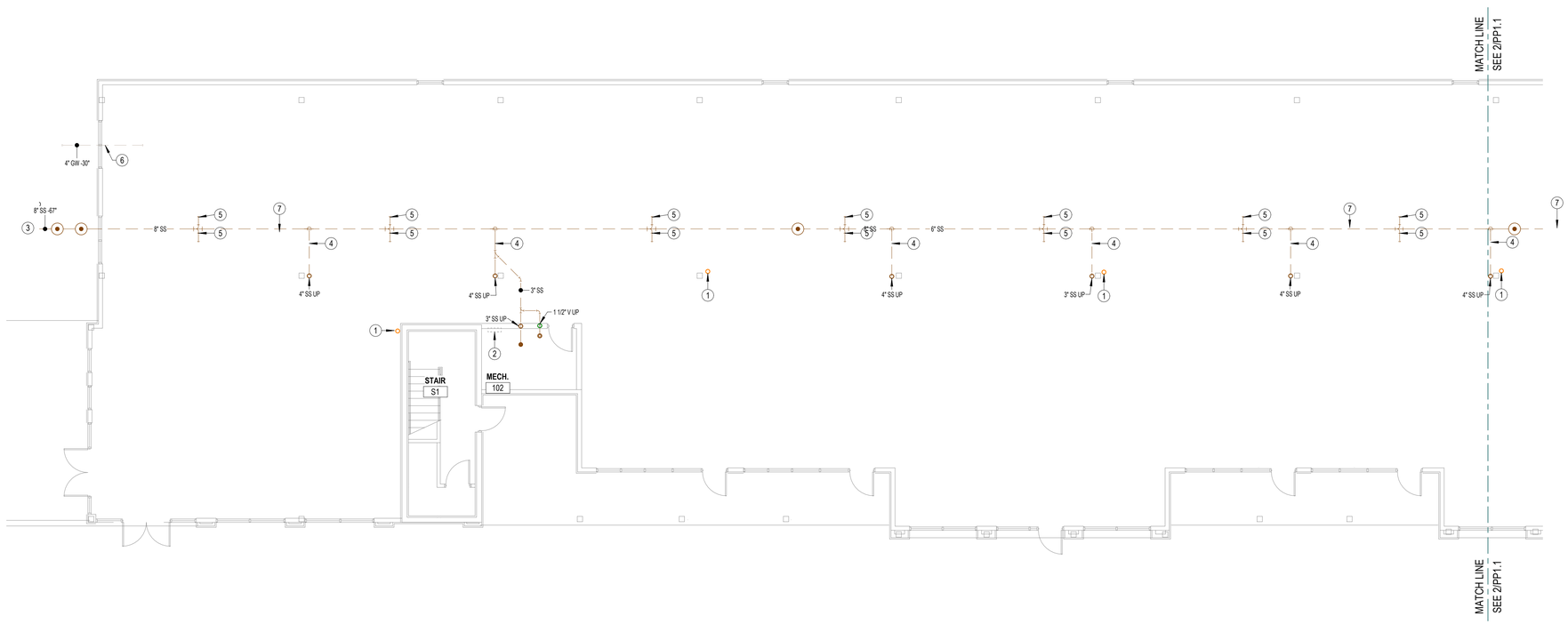
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2 UNDERFLOOR-WASTE AND VENT PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 UNDERFLOOR-WASTE AND VENT PLAN-AREA A

1/8" = 1'-0"

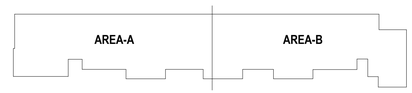
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WASTE AND VENT SHEET NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.
2. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. FIELD VERIFY EXACT ROUTING OF PIPING WITH EXISTING STRUCTURAL CONDITIONS. PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
4. WHERE THE PLUMBING SYSTEM UTILIZES WATE STACK VENTING (WSV), THE STACK SHALL HAVE NO OFFSETS ABOVE THE LOWEST HORIZONTAL BRANCH CONNECTION SERVING THE STACK, IN ACCORDANCE WITH IPC SECTION 913.

NOTES BY SYMBOL

1. 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
2. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
3. SEE SITE PLAN FOR CONTINUATION.
4. ROUTE WASTE PIPING ABOVE LOWERED FOOTING. COORDINATE ROUTING WITH STRUCTURAL ENGINEER.
5. PROVIDE 4" CAPPED SANITARY SEWER BRANCH TO COMMERCIAL SPACE FOR FUTURE.
6. INSTALL 4" PVC PIPE AS INDICATED FOR FUTURE GREASE WASTE SYSTEM. CAP BOTH ENDS OF PIPE AND MARK ENDS TO ALLOW EASY LOCATION IN FUTURE. COORDINATE WITH G.C.
7. COORDINATE ROUTING OF BUILDING DRAIN WITH STRUCTURAL FOOTINGS. ENSURE PIPING IS NOT LOCATED WITHIN LOAD-BEARING ZONES OF FOUNDATIONS OR FOOTINGS. WHERE ROUTING THROUGH OR BENEATH FOOTINGS IS UNAVOIDABLE, PROVIDE PROTECTION IN ACCORDANCE WITH IPC SECTION 305 AND STRUCTURAL ENGINEER REQUIREMENTS, INCLUDING SLEEVING, ENCASEMENT, OR OTHER APPROVED METHODS. DO NOT COMPROMISE STRUCTURAL INTEGRITY OF FOOTINGS. COORDINATE ALL PENETRATIONS WITH STRUCTURAL DRAWINGS AND DETAILS PRIOR TO INSTALLATION.



KEY PLAN

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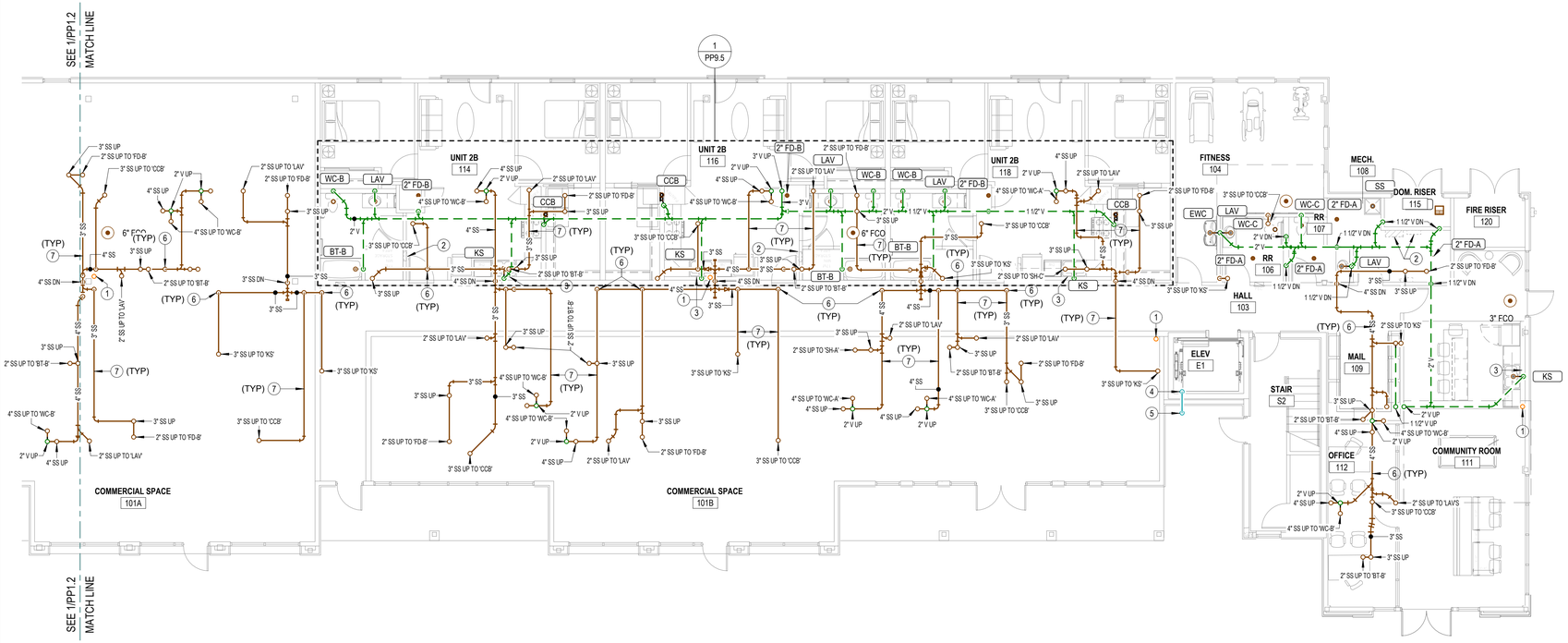
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SHEET NO.:

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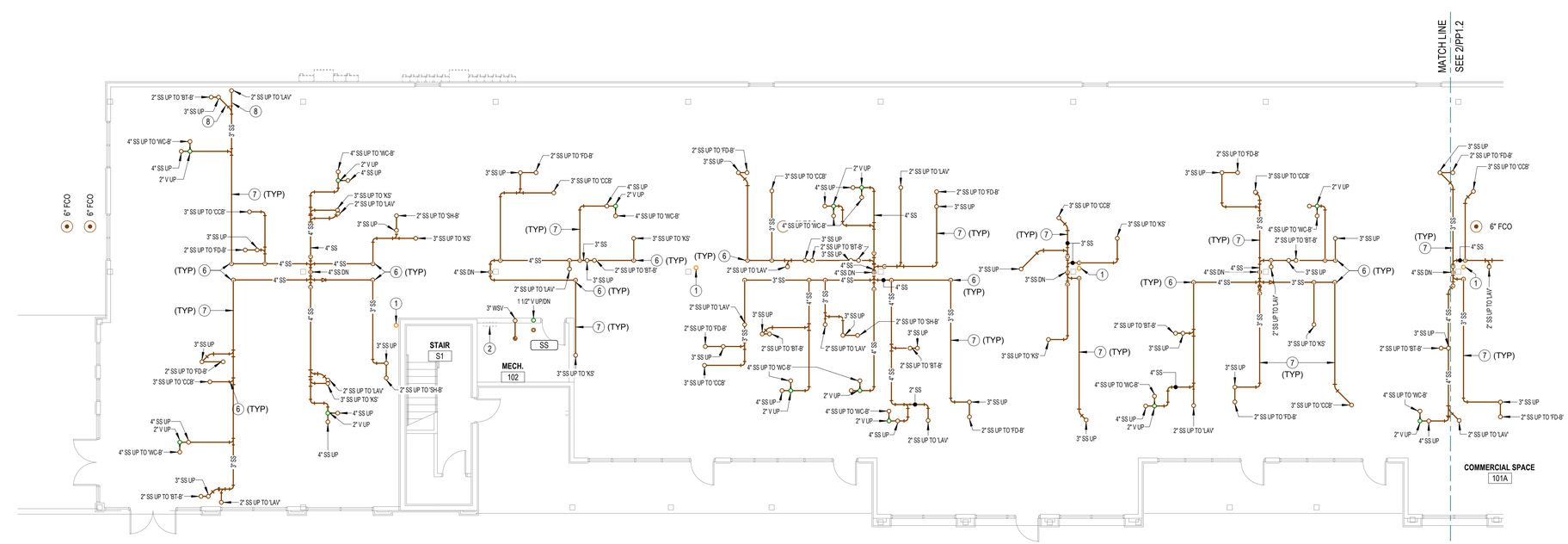
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2 FIRST FLOOR-WASTE AND VENT PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 FIRST FLOOR-WASTE AND VENT PLAN-AREA A

1/8" = 1'-0"

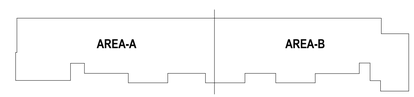
0 4' 8' 16'

WASTE AND VENT SHEET NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.
2. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. FIELD VERIFY EXACT ROUTING OF PIPING WITH EXISTING STRUCTURAL CONDITIONS. PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
4. WHERE THE PLUMBING SYSTEM UTILIZES WATE STACK VENTING (WSV), THE STACK SHALL HAVE NO OFFSETS ABOVE THE LOWEST HORIZONTAL BRANCH CONNECTION SERVING THE STACK, IN ACCORDANCE WITH IPC SECTION 913.
5. PIPING ABOVE 1ST FLOOR HAS BEEN ROUTED TO MAXIMIZE FUTURE CEILING HEIGHTS. COORDINATE EXACT ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER WHERE PIPING MUST BE ROUTED THROUGH OR UNDER BEAMS.

NOTES BY SYMBOL

1. 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
2. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
3. PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.
4. ROUTE 3" STORM DRAIN PIPING DOWN, MAKE FINAL CONNECTION TO SUMP PUMP. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED.
5. ROUTE 3" DISCHARGE FROM SUMP PUMP OUT WALL AT 18" A.F.F. TERMINATE WITH ELBOW DOWN ABOVE SPLASH BLOCK. COORDINATE WITH G.C.
6. ELBOW PIPING DOWN AND ROUTE AS HIGH AS POSSIBLE BELOW BEAMS. COORDINATE EXACT ROUTING WITH G.C.
7. ROUTE PIPING BETWEEN BEAMS AS HIGH AS POSSIBLE. COORDINATE EXACT ROUTING WITH G.C.
8. ROUTE PIPING IN THIS AREA THROUGH BEAM OR UNDER BEAM, COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEERS.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

KEVIN PATRICK LUX LICENSED 24155 KANSAS PROFESSIONAL ENGINEER
2026.04.22 14:25:44-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

PP1.2

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2 SECOND FLOOR-WASTE AND VENT PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'

1 SECOND FLOOR-WASTE AND VENT PLAN-AREA A

1/8" = 1'-0"

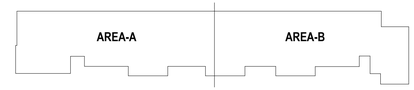
0 4' 8' 16'

WASTE AND VENT SHEET NOTES

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4. WHERE THE PLUMBING SYSTEM UTILIZES WATE STACK VENTING (WSV), THE STACK SHALL HAVE NO OFFSETS ABOVE THE LOWEST HORIZONTAL BRANCH CONNECTION SERVING THE STACK, IN ACCORDANCE WITH IPC SECTION 913.

NOTES BY SYMBOL

1. 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
2. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
3. PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.
4. OFFSET LAVATORY WASTE STACK BELOW LAST LAVATORY CONNECTION TO WASTE STACK VENT. OFFSET PIPING TO AVOID STRUCTURAL BEAM BELOW. COORDINATE EXACT ROUTING WITH G.C.



KEY PLAN

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

PATRICK LEE LYCENSED 24155 KANSAS PROFESSIONAL ENGINEER
2026.04.22 14:25:55-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

PP1.3

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2 THIRD FLOOR-WASTE AND VENT PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'

1 THIRD FLOOR-WASTE AND VENT PLAN-AREA A

1/8" = 1'-0"

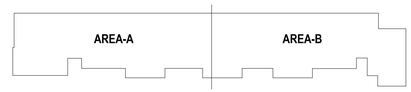
0 4' 8' 16'

WASTE AND VENT SHEET NOTES

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NOTES BY SYMBOL

1. 4" PVC PIPE FOR RADON SYSTEM. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
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3. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.



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THE RESERVES AT MEADOWS 25

NEW SENIOR LIVING FACILITY

GODDARD, KANSAS

PATRICK LYNN LICENSED 24155 KANSAS PROFESSIONAL ENGINEER

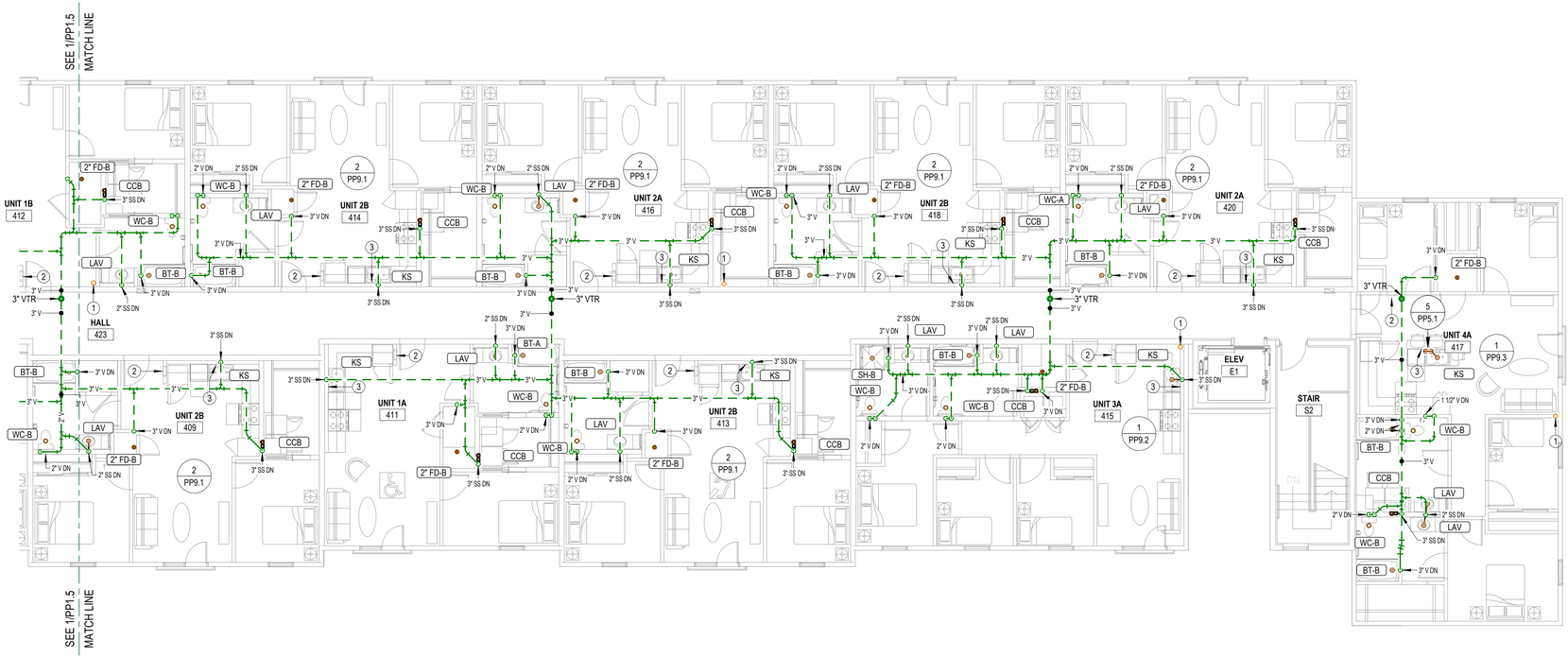
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JOB: 24-3379
SHEET NO.:

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2 FOURTH FLOOR-WASTE AND VENT PLAN-AREA B

1/8" = 1'-0"



1 FOURTH FLOOR-WASTE AND VENT PLAN-AREA A

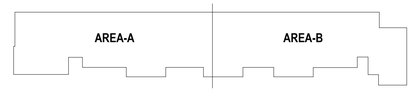
1/8" = 1'-0"

WASTE AND VENT SHEET NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.
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3. FIELD VERIFY EXACT ROUTING OF PIPING WITH EXISTING STRUCTURAL CONDITIONS. PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
4. WHERE THE PLUMBING SYSTEM UTILIZES WATE STACK VENTING (WSV), THE STACK SHALL HAVE NO OFFSETS ABOVE THE LOWEST HORIZONTAL BRANCH CONNECTION SERVING THE STACK, IN ACCORDANCE WITH IPC SECTION 913.

NOTES BY SYMBOL

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2. ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
3. PROVIDE INDIRECT CONNECTION AT GARBAGE DISPOSER AND CONNECT DISHWASHER. ROUTE DRAIN FROM DISHWASHER AT BACK OF CABINETRY. COORDINATE EXACT ROUTING WITH G.C.



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THE RESERVES AT MEADOWS 25
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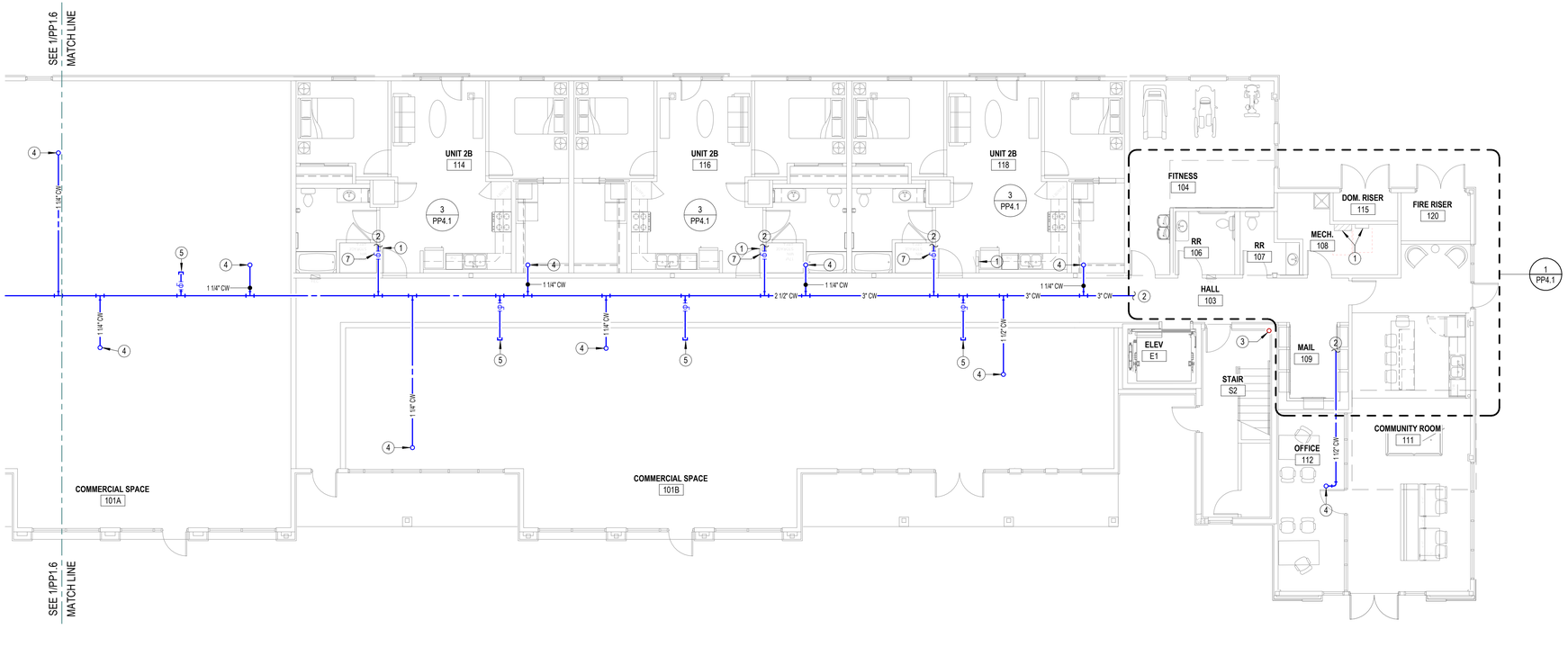
JOHN PATRICK LIEB LICENSED 24155 KANSAS PROFESSIONAL ENGINEER
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REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

PP1.5

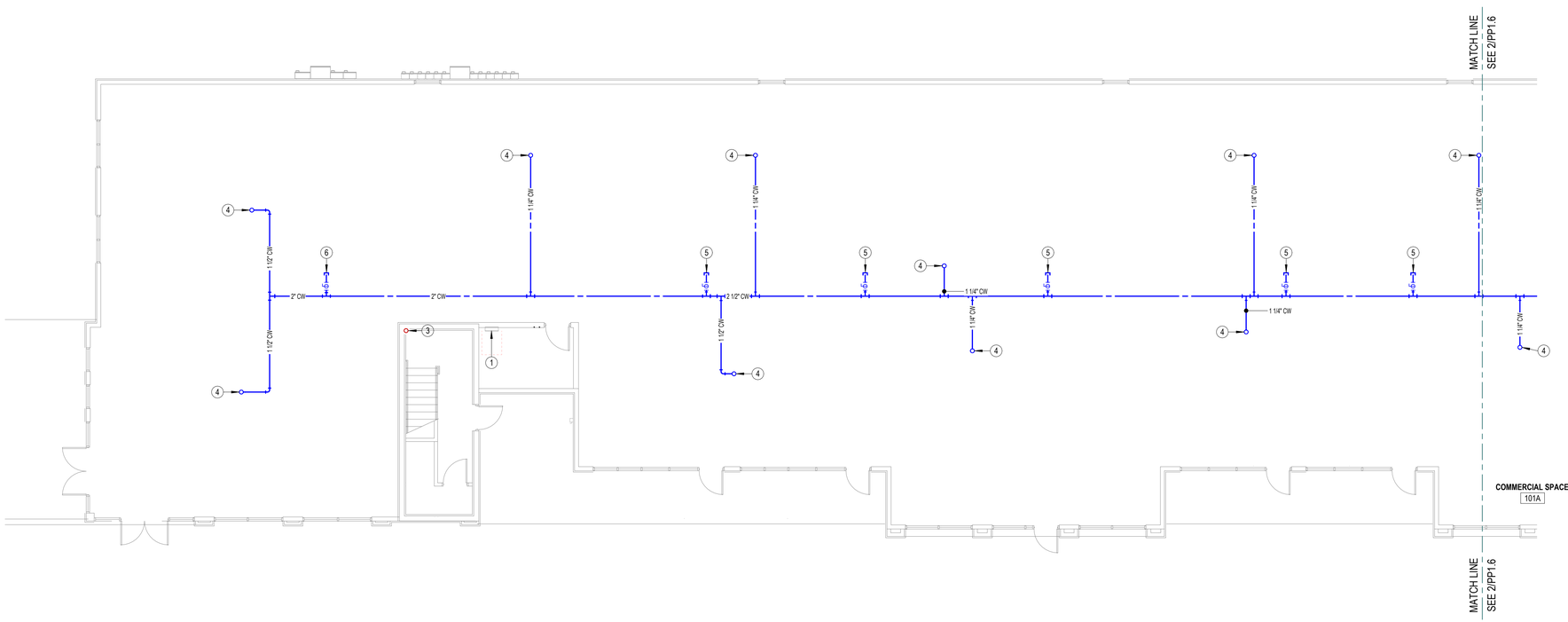
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2 FIRST FLOOR-DOMESTIC WATER PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 FIRST FLOOR-DOMESTIC WATER PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

		ALTERNATE MATERIAL SIZE	
		CROSS-LINKED POLYETHYLENE (PEX)	POLYPROPYLENE
COPPER PIPE SIZE INDICATED	1/2"	3/4"	3/4"
	3/4"	1"	1"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

NOTES:
1. 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.
2. DOMESTIC WATER SIZING CHART APPLIES TO DISTRIBUTION PIPING ONLY. WHERE PIPING SERVES INDIVIDUAL FIXTURE, MAINTAIN FIXTURE CONNECTION SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.

DOMESTIC WATER SHEET NOTES

1 PIPING TO FIXTURES FOR DWELLING UNITS ON 3RD FLOOR TO BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

2 SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.

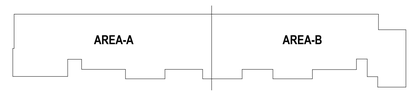
3 PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARHITECTURAL DRAWINGS.

4 SEE OVERALL WASTE AND VENT PLANS FOR EXACT FIXTURE TYPES PER EACH DWELLING UNIT.

5 PIPING ROUTED THROUGH HALLWAYS AND COMMON AREAS SHALL BE CONCEALED IN SOFFITS, COORDINATE EXACT ROUTING AND LOCATIONS WITH ARCHITECT.

NOTES BY SYMBOL

1 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
2 SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.
3 FIRE PROTECTION STAND PIPE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE PROTECTION DRAWINGS.
4 CW UP TO APARTMENT DOMESTIC WATER SERVICE RISER.
5 PROVIDE 1-1/2" VALVED AND CAPPED BRANCH FOR FUTURE USE.
6 PROVIDE 2" VALVE AND CAPPED BRANCH FOR FUTURE USE.
7 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE IN REACHABLE LOCATION TO THE RESIDENT CONCEALED IN WALL, PROVIDE ACCESS PANELS ON LAUNDRY/STORAGE SIDE OF WALL MARKED WITH SIGNAGE.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS



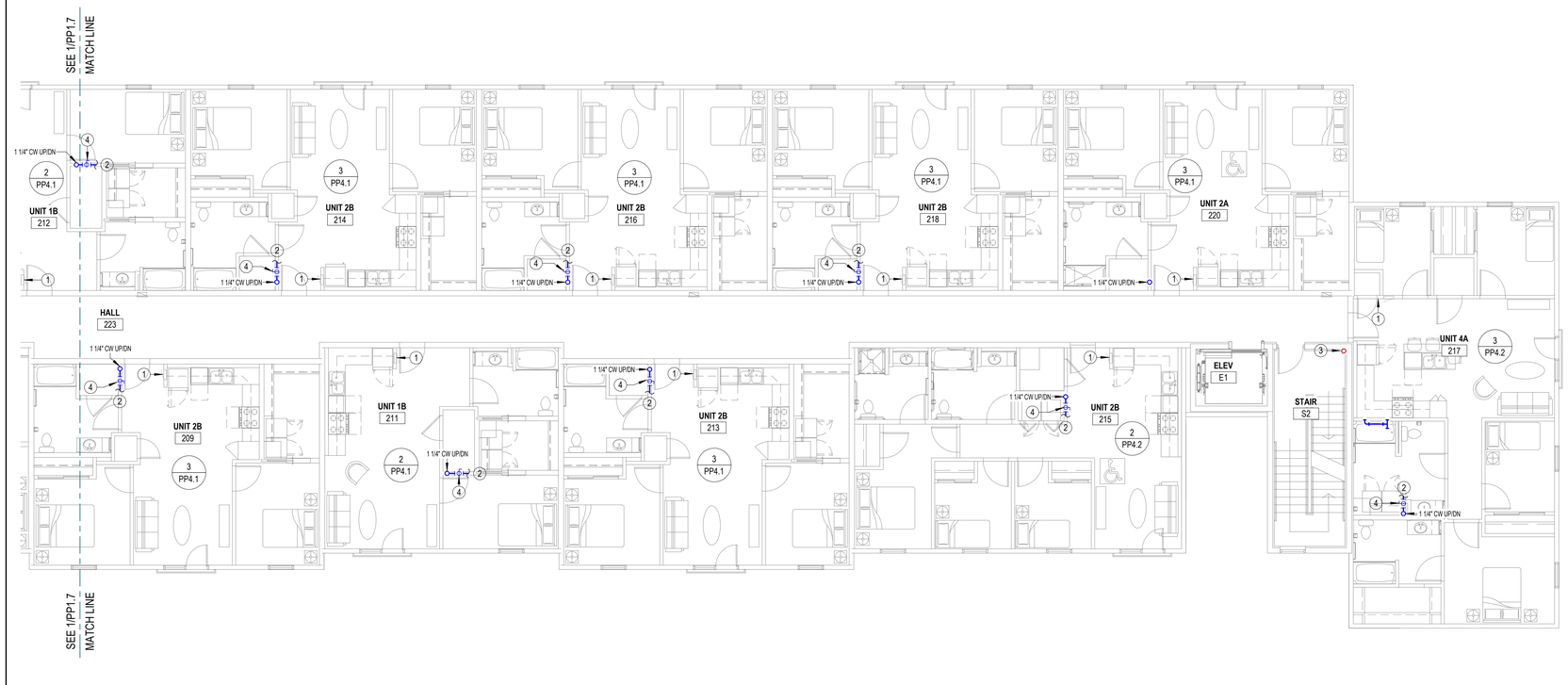
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JOB: 24-3379
SHEET NO.:

PP1.6

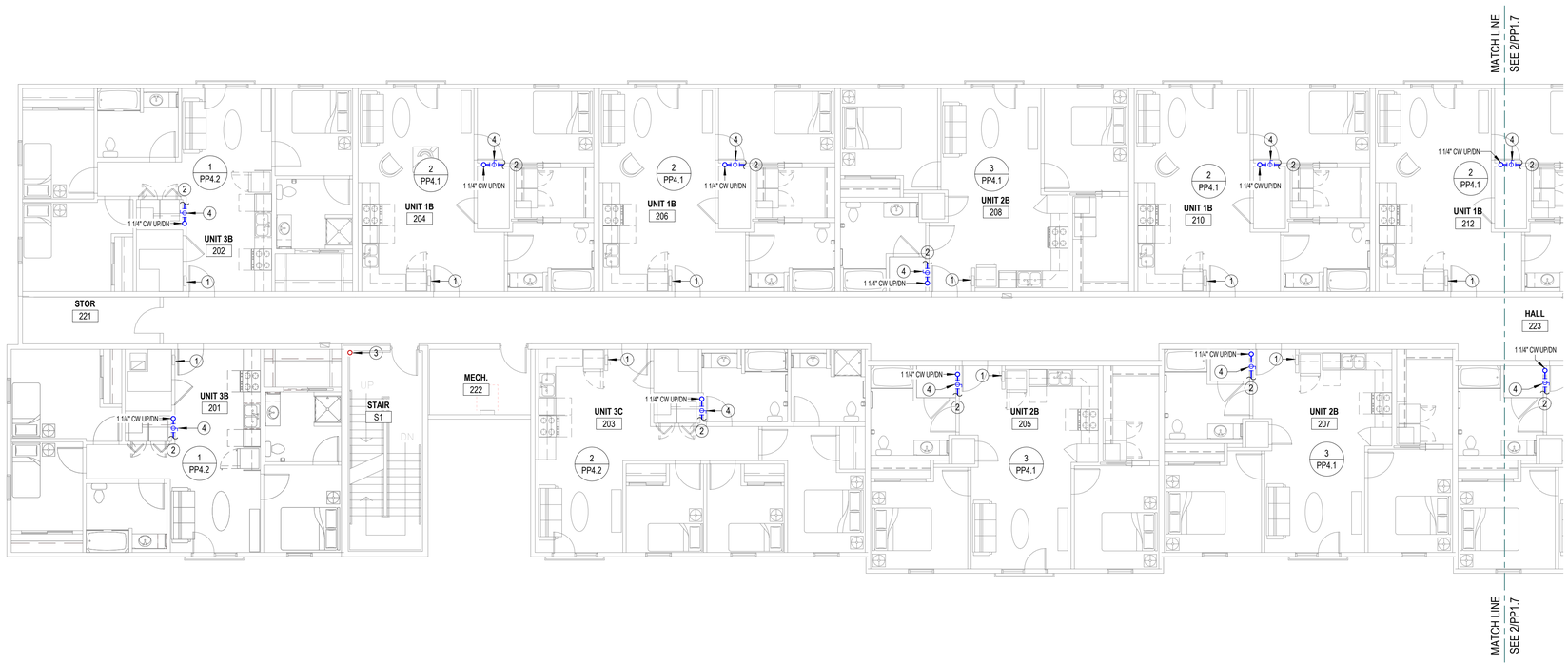
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2 SECOND FLOOR-DOMESTIC WATER PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 SECOND FLOOR-DOMESTIC WATER PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

		ALTERNATE MATERIAL SIZE	
		CROSS-LINKED POLYETHYLENE (PEX)	POLYPROPYLENE
COPPER PIPE SIZE INDICATED	1/2"	3/4"	3/4"
	3/4"	1"	1"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

NOTES:
1. 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.
2. DOMESTIC WATER SIZING CHART APPLIES TO DISTRIBUTION PIPING ONLY. WHERE PIPING SERVES INDIVIDUAL FIXTURE, MAINTAIN FIXTURE CONNECTION SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.

DOMESTIC WATER SHEET NOTES

1 PIPING TO FIXTURES FOR DWELLING UNITS ON 3RD FLOOR TO BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

2 SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.

3 PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARHITECTURAL DRAWINGS.

4 SEE OVERALL WASTE AND VENT PLANS FOR EXACT FIXTURE TYPES PER EACH DWELLING UNIT.

5 PIPING ROUTED THROUGH HALLWAYS AND COMMON AREAS SHALL BE CONCEALED IN SOFFITS, COORDINATE EXACT ROUTING AND LOCATIONS WITH ARCHITECT.

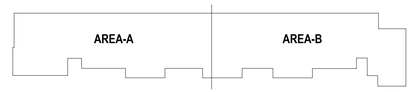
NOTES BY SYMBOL

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2 SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.

3 FIRE PROTECTION STAND PIPE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE PROTECTION DRAWINGS.

4 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE IN REACHABLE LOCATION TO THE RESIDENT CONCEALED IN WALL. PROVIDE ACCESS PANELS ON LAUNDRY/STORAGE SIDE OF WALL MARKED WITH SIGNAGE.



KEY PLAN

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RYAN PATRICK LINDENBERGER 24155 KANSAS PROFESSIONAL ENGINEER

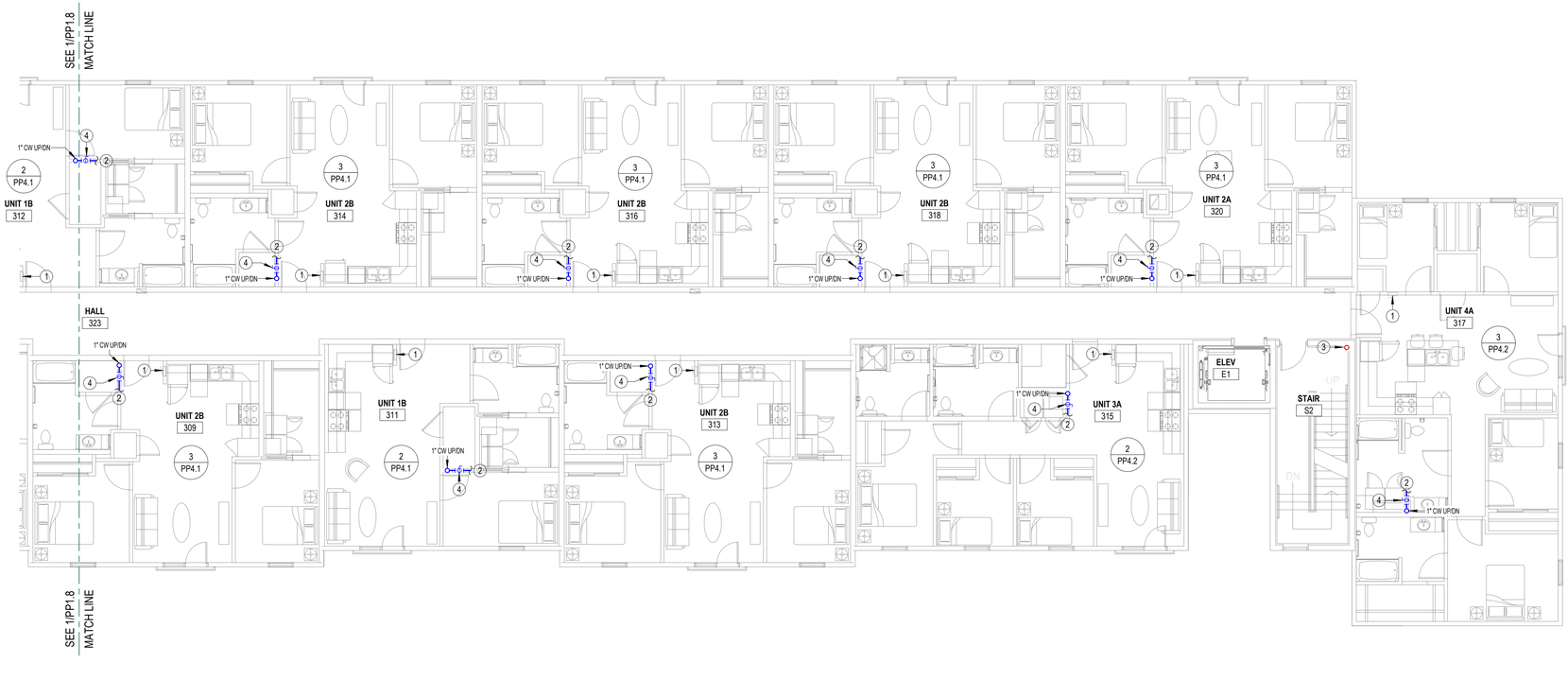
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DATE: 04/21/2026
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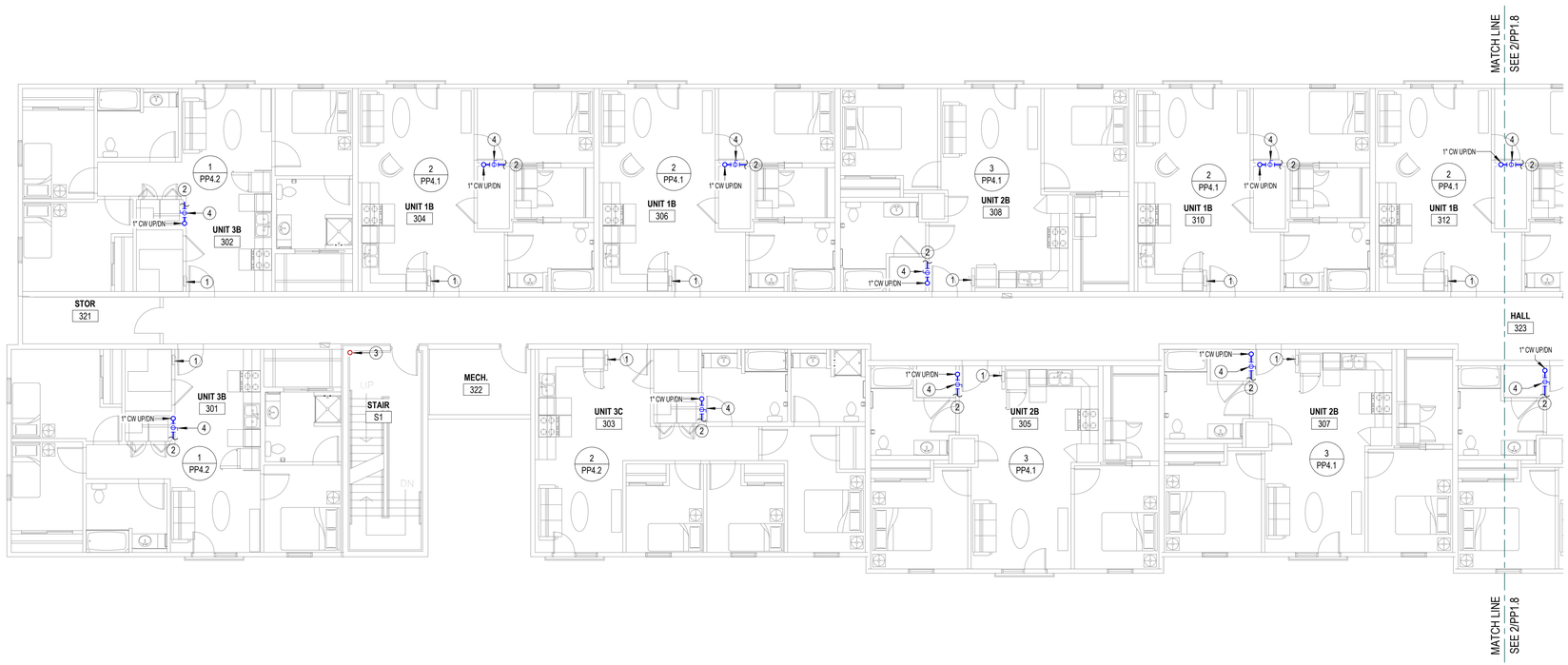
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2 THIRD FLOOR-DOMESTIC WATER PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 THIRD FLOOR-DOMESTIC WATER PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

COPPER PIPE SIZE INDICATED	ALTERNATE MATERIAL SIZE: CROSS-LINKED POLYETHYLENE (PEX)	ALTERNATE MATERIAL SIZE: POLYPROPYLENE
1/2"	3/4"	3/4"
3/4"	1"	1"
1"	1-1/4"	1-1/4"
1-1/4"	1-1/2"	1-1/2"
1-1/2"	2"	2"
2"	2-1/2"	2-1/2"
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3"	3-1/2"	3-1/2"

NOTES:
1. 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.
2. DOMESTIC WATER SIZING CHART APPLIES TO DISTRIBUTION PIPING ONLY. WHERE PIPING SERVES INDIVIDUAL FIXTURE, MAINTAIN FIXTURE CONNECTION SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.

DOMESTIC WATER SHEET NOTES

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3 PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARHITECTURAL DRAWINGS.

4 SEE OVERALL WASTE AND VENT PLANS FOR EXACT FIXTURE TYPES PER EACH DWELLING UNIT.

5 PIPING ROUTED THROUGH HALLWAYS AND COMMON AREAS SHALL BE CONCEALED IN SOFFITS, COORDINATE EXACT ROUTING AND LOCATIONS WITH ARCHITECT.

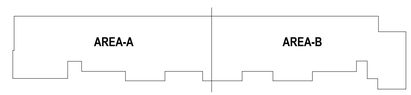
NOTES BY SYMBOL

1 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.

2 SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.

3 FIRE PROTECTION STAND PIPE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE PROTECTION DRAWINGS.

4 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE IN REACHABLE LOCATION TO THE RESIDENT CONCEALED IN WALL. PROVIDE ACCESS PANELS ON LAUNDRY/STORAGE SIDE OF WALL MARKED WITH SIGNAGE.



KEY PLAN

NO SCALE

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GODDARD, KANSAS

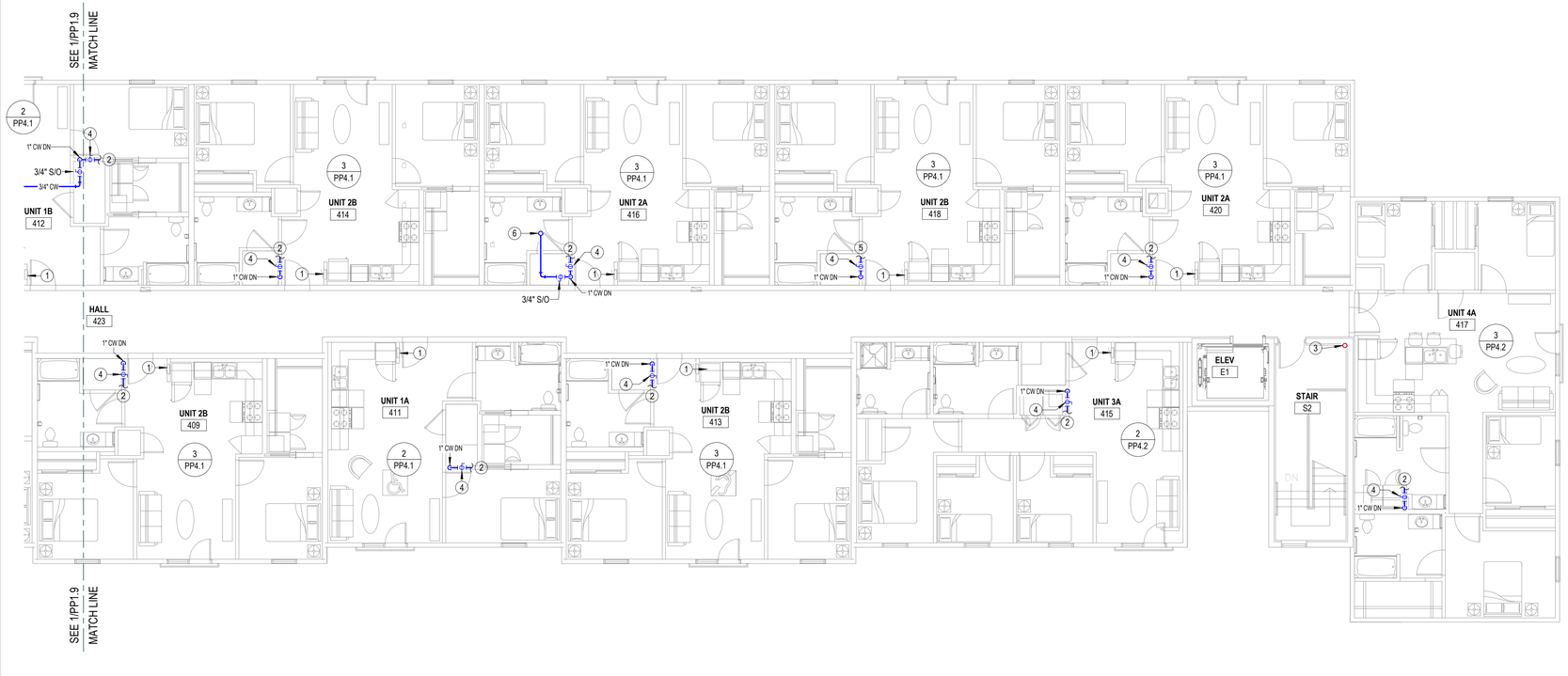
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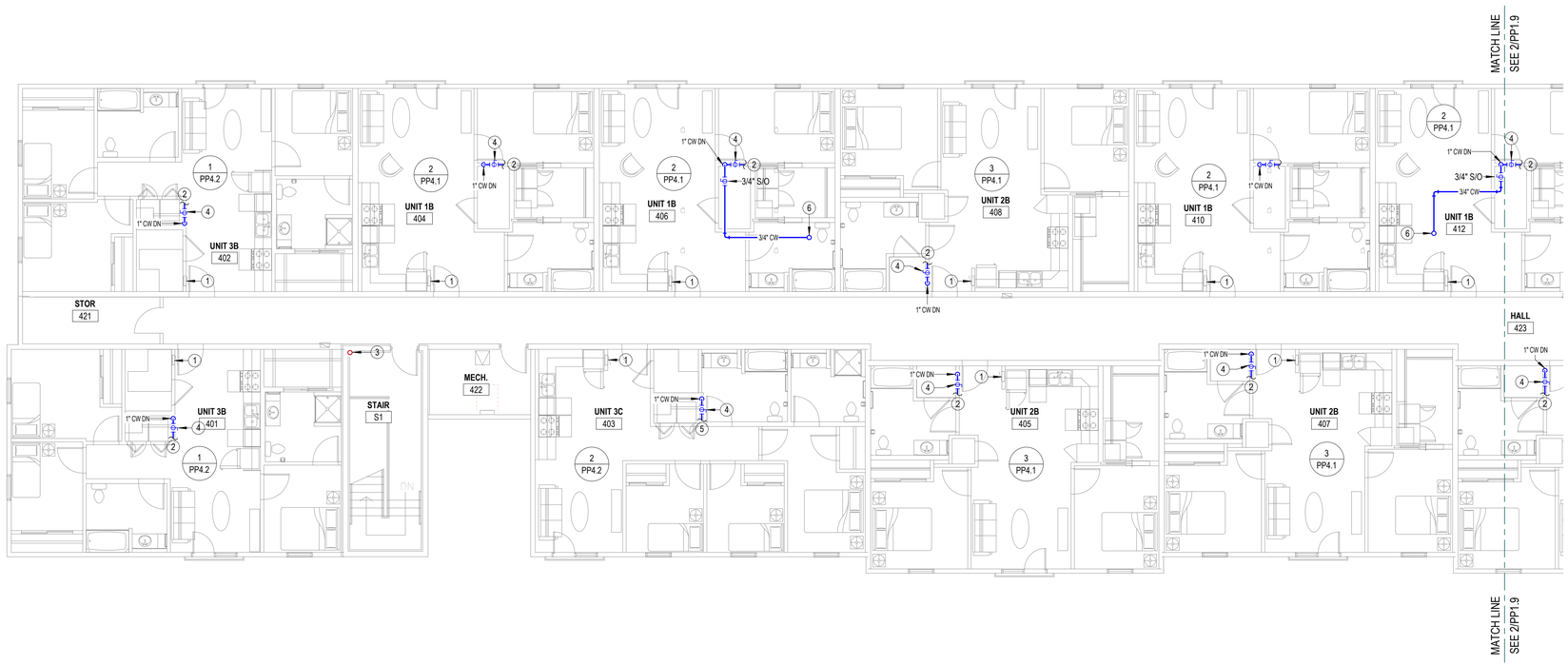
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2 FOURTH FLOOR-DOMESTIC WATER PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 FOURTH FLOOR-DOMESTIC WATER PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

		ALTERNATE MATERIAL SIZE	
		CROSS-LINKED POLYETHYLENE (PEX)	POLYPROPYLENE
COPPER PIPE SIZE INDICATED	1/2"	3/4"	3/4"
	3/4"	1"	1"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

NOTES:
1. 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.
2. DOMESTIC WATER SIZING CHART APPLIES TO DISTRIBUTION PIPING ONLY. WHERE PIPING SERVES INDIVIDUAL FIXTURE, MAINTAIN FIXTURE CONNECTION SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.

DOMESTIC WATER SHEET NOTES

1 PIPING TO FIXTURES FOR DWELLING UNITS ON 3RD FLOOR TO BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

2 SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.

3 PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARHITECTURAL DRAWINGS.

4 SEE OVERALL WASTE AND VENT PLANS FOR EXACT FIXTURE TYPES PER EACH DWELLING UNIT.

5 PIPING ROUTED THROUGH HALLWAYS AND COMMON AREAS SHALL BE CONCEALED IN SOFFITS, COORDINATE EXACT ROUTING AND LOCATIONS WITH ARCHITECT.

NOTES BY SYMBOL

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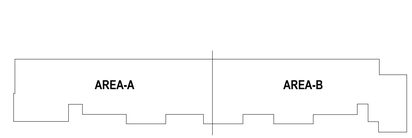
2 SEE ENLARGED DOMESTIC WATER PLANS FOR CONTINUATION.

3 FIRE PROTECTION STAND PIPE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE PROTECTION DRAWINGS.

4 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE IN REACHABLE LOCATION TO THE RESIDENT CONCEALED IN WALL. PROVIDE ACCESS PANELS ON LAUNDRY/STORAGE SIDE OF WALL MARKED WITH SIGNAGE.

5 SEE OVERALL DOMESTIC WATER PLAN FOR CONTINUATION.

6 3/4" COLD WATER UP TO ROOF HYDRANT. PROVIDE DEDICATED 1/2" DRAIN LINE FROM HYDRANT TO NEAREST FLOOR DRAIN. COORDINATE ROUTING AND TERMINATION WITH G.C.



KEY PLAN

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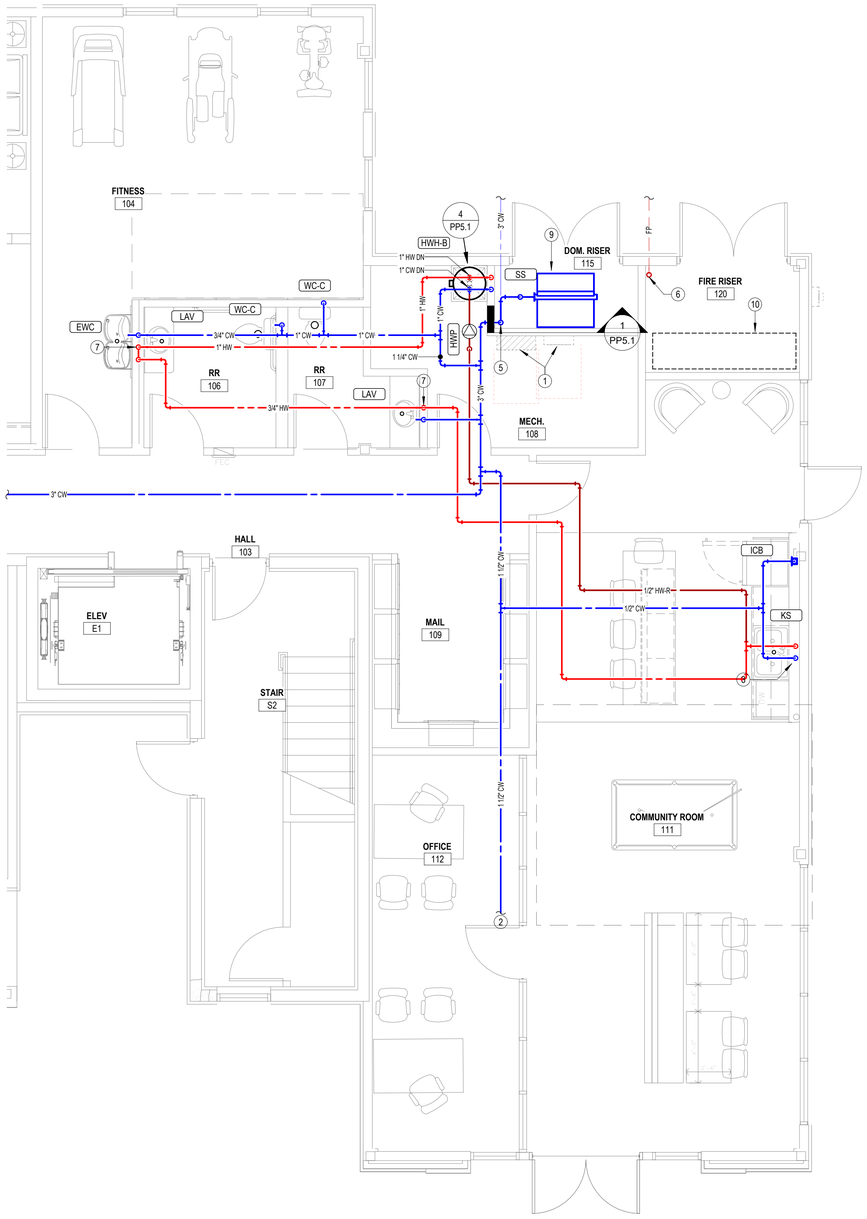
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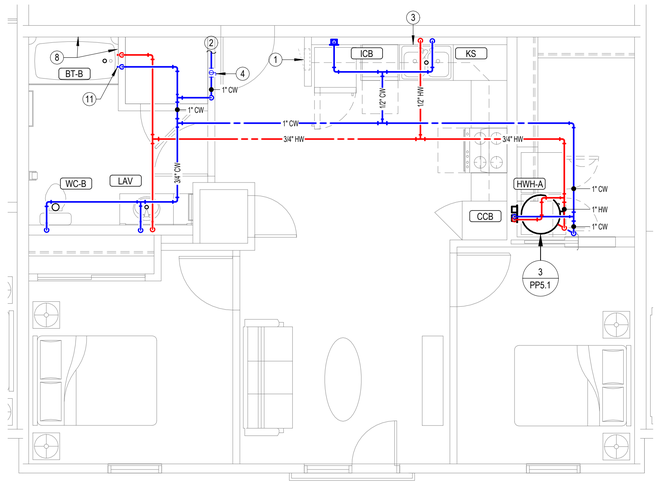
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1 **ENLARGED DOMESTIC WATER PLAN-CLUBHOUSE**

1/4" = 1'-0"

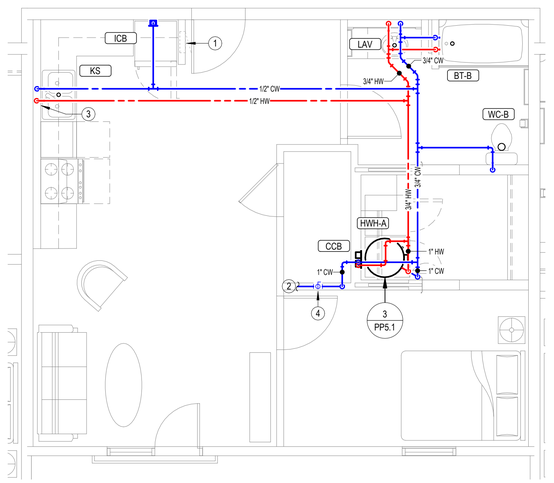
0 2' 4' 8'



3 **ENLARGED DOMESTIC WATER PLAN-2B**

1/4" = 1'-0"

0 2' 4' 8'



2 **ENLARGED DOMESTIC WATER PLAN-1B**

1/4" = 1'-0"

0 2' 4' 8'

		ALTERNATE MATERIAL SIZE	
		CROSS-LINKED POLYETHYLENE (PEX)	POLYPROPYLENE
COPPER PIPE SIZE INDICATED	1/2"	3/4"	3/4"
	3/4"	1"	1"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

NOTES:
1. 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.
2. DOMESTIC WATER SIZING CHART APPLIES TO DISTRIBUTION PIPING ONLY. WHERE PIPING SERVES INDIVIDUAL FIXTURE, MAINTAIN FIXTURE CONNECTION SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.

ENLARGED DOMESTIC WATER SHEET NOTES

1 PIPING TO FIXTURES FOR DWELLING UNITS ON 3RD FLOOR TO BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

2 SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.

3 PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARHITECTURAL DRAWINGS.

4 SEE OVERALL WASTE AND VENT PLANS FOR EXACT FIXTURE TYPES PER EACH DWELLING UNIT.

NOTES BY SYMBOL

1 ELECTRICAL EQUIPMENT SHOWN FOR COORDINATION. DO NOT ROUTE PIPING ABOVE OR BELOW EQUIPMENT, AND MAINTAIN WORKING CLEARANCE SHOWN.
2 SEE OVERALL DOMESTIC WATER PLAN FOR CONTINUATION.
3 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.
4 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE IN REACHABLE LOCATION TO THE RESIDENT CONCEALED IN WALL, PROVIDE ACCESS PANELS ON LAUNDRY/STORAGE SIDE OF WALL MARKED WITH SIGNAGE.
5 PROVIDE FULL SIZED SHUT-OFF VALVE IN WATER SERVICE ENTRANCE RISER. COORDINATE REQUIREMENTS WITH CITY OF GODDARD.
6 FIRE PROTECTION SERVICE ENTRANCE. INSTALL IN ACCORDANCE WITH NFPA 13 AND 14. COORDINATE LOCATION OF ALL VALVES AND APPURTENANCES WITH AHJ.
7 ROUTE HOT WATER PIPING RECIRCULATION LOOP DOWN IN WALL TO LIMIT DISTANCE FROM LOOP TO LAVATORY TO LESS THAN 2' PER 2018 IECC TABLE C404.5.1.
8 IN UNIT 220 WITH ROLL-IN SHOWER COORDINATE SHOWER HEADS AND CONTROL LOCATIONS WITH ARCHITECT.
9 PROVIDE ADD ALTERNATE PRICE FOR WATER PRESSURE BOOSTER SYSTEM CAPABLE OF INCREASING PRESSURE OF 126 GPM BY 20 PSI. EQUIVALENT TO PRODIGY DUPLEX, COMPLETE WITH 2 HP VARIABLE SPEED PUMP, 3" HEADERS, 208V/3PH MOTOR. SINGLE POINT POWER CONNECTION. PROVIDE MANUFACTURER'S ANALYSIS OF SYSTEM PRIOR TO INSTALLATION.
10 PROVIDE SKID MOUNTED FIRE PUMP AND ALL REQUIRED CONTROLS, VALVES, AND APPURTENANCES PER SEALED FIRE SUPPRESSION SHOP DRAWINGS DESIGNED BY OTHERS.
11 BATHTUB IS ROTATED 180 DEGREES IN UNITS 208, 308, 408, 214, 314, AND 414. SEE OVERALL PLUMBING PLANS FOR EXACT FIXTURE LAYOUT.

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jgr@jgrarchitects.com

THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS



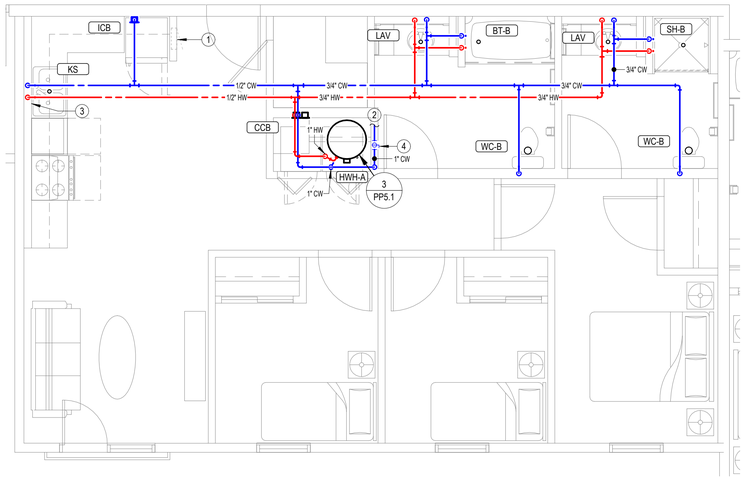
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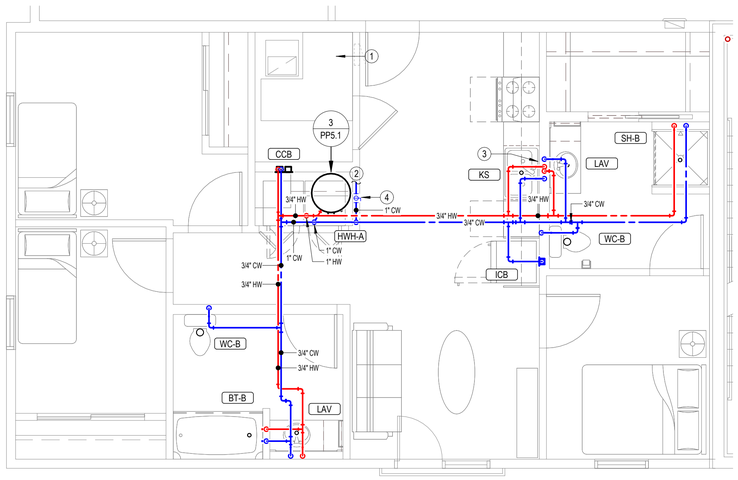
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2 ENLARGED DOMESTIC WATER PLAN-3C

1/4" = 1'-0"

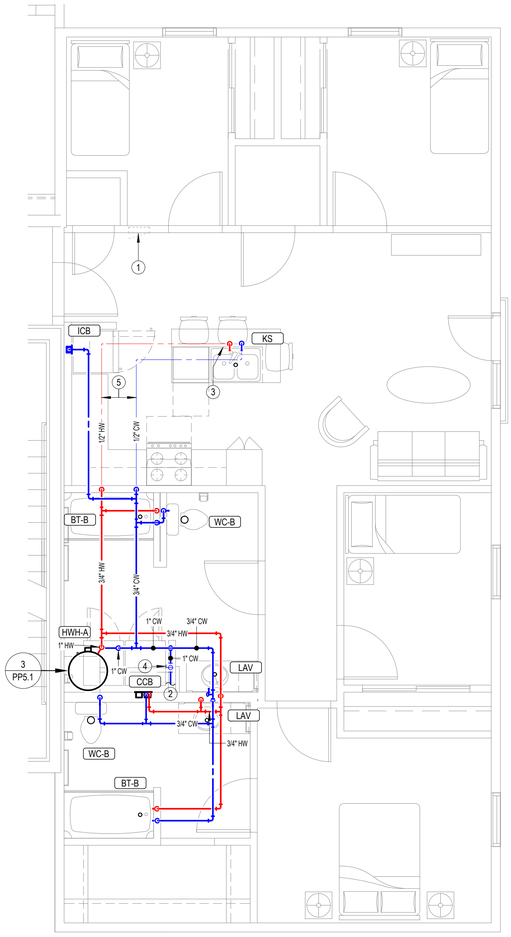
0 2' 4' 8'



1 ENLARGED DOMESTIC WATER PLAN-3B

1/4" = 1'-0"

0 2' 4' 8'



3 ENLARGED DOMESTIC WATER PLAN-4A

1/4" = 1'-0"

0 2' 4' 8'

ALTERNATE MATERIAL SIZE			
		CROSS-LINKED POLYETHYLENE (PEX)	POLYPROPYLENE
COPPER PIPE SIZE INDICATED	1/2"	3/4"	3/4"
	3/4"	1"	1"
	1"	1-1/4"	1-1/4"
	1-1/4"	1-1/2"	1-1/2"
	1-1/2"	2"	2"
	2"	2-1/2"	2-1/2"
	2-1/2"	3"	3"
	3"	3-1/2"	3-1/2"

NOTES:
1. 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.
2. DOMESTIC WATER SIZING CHART APPLIES TO DISTRIBUTION PIPING ONLY. WHERE PIPING SERVES INDIVIDUAL FIXTURE, MAINTAIN FIXTURE CONNECTION SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.

ENLARGED DOMESTIC WATER SHEET NOTES

1 PIPING TO FIXTURES FOR DWELLING UNITS ON 3RD FLOOR TO BE ROUTED BELOW THE FLOOR. DO NOT ROUTE DOMESTIC WATER PIPING IN THE ATTIC.

2 SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.

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4 SEE OVERALL WASTE AND VENT PLANS FOR EXACT FIXTURE TYPES PER EACH DWELLING UNIT.

NOTES BY SYMBOL

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2 SEE OVERALL DOMESTIC WATER PLAN FOR CONTINUATION.

3 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.

4 PROVIDE 1" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE IN REACHABLE LOCATION TO THE RESIDENT CONCEALED IN WALL, PROVIDE ACCESS PANELS ON LAUNDRY/STORAGE SIDE OF WALL MARKED WITH SIGNAGE.

5 PIPING BELOW FLOOR. COORDINATE ROUTING WITH STRUCTURE.

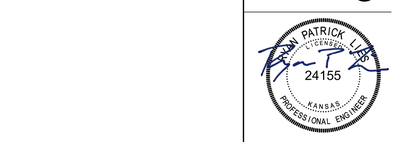
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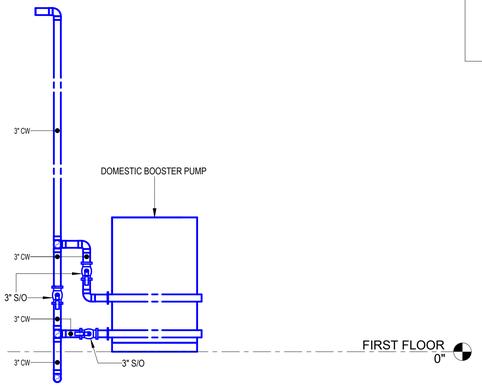
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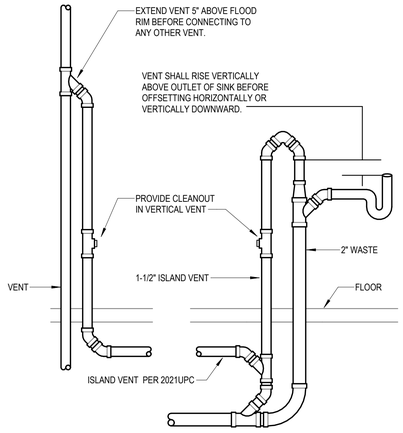
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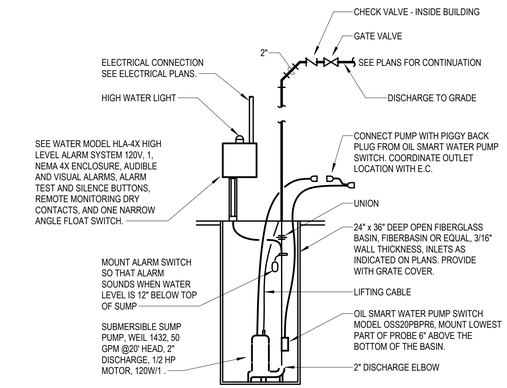
1 DOMESTIC WATER BOOSTER RISER

3/8" = 1'-0"



5 ISLAND VENT DETAIL

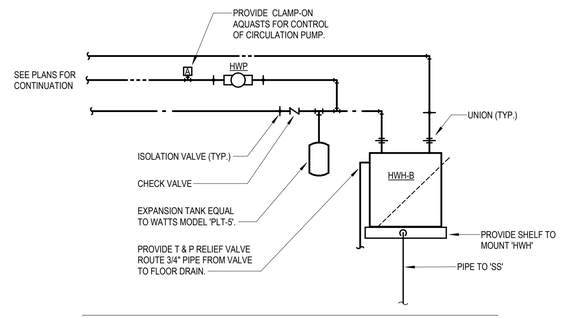
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SUMP PUMP WITH OIL SMART SWITCH AND SEE WATER ALARM SYSTEM

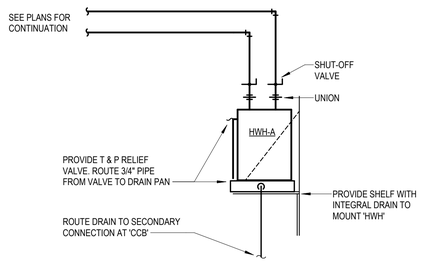
2 ELEVATOR SUMP PUMP DIAGRAM

NO SCALE



4 WATER HEATER ON SHELF PIPING DIAGRAM

NO SCALE



3 APARTMENT WATER HEATER ON SHELF PIPING DIAGRAM

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WATER HEATER SCHEDULE

GENERAL: • PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.

NOTES: 1. PROVIDE WALL HUNG PLATFORM FOR WATER HEATER EQUAL TO HOLDRITE #60SQHP-W. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.

MARK	MANUFACTURER	MODEL	STORAGE	RECOVERY		EFFICIENCY	ELECTRIC HEAT	VOLTAGE/PHASE	DESCRIPTION	NOTES
				CAPACITY	TEMP. RISE					
HWH-A	AO SMITH	ENJ-40	38 gal	0.3 GPM	90 °F	UEF: 0.94	4500 W	208 V/1	ELECTRIC WATER HEATER, SUPPLIED WITH TEMPERATURE AND PRESSURE RELIEF VALVE AND BRASS DRAIN VALVE. WATER HEATER SHALL HAVE TEMPERATURE CONTROLS SET TO LIMIT SUPPLY TEMPERATURE TO 120°F OR LESS.	1
HWH-B	AO SMITH	EJCS-20	20 gal	0.2 GPM	90 °F		2500 W	120 V/1	ELECTRIC WATER HEATER, SUPPLIED WITH TEMPERATURE AND PRESSURE RELIEF VALVE AND BRASS DRAIN VALVE. WATER HEATER SHALL HAVE TEMPERATURE CONTROLS SET TO LIMIT SUPPLY TEMPERATURE TO 120°F OR LESS.	1

PUMP SCHEDULE

GENERAL: • PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.

NOTES: 1. PUMP SHALL HAVE CONTROLS TO PREVENT STARTUP WITHIN 5 MINUTES FROM THE END OR PREVIOUS HEATING CYCLE. HOT WATER RECRICULATION SYSTEM SHALL MEET ALL REQUIREMENTS OF 2021 IECC.

MARK	MANUFACTURER	MODEL	FLOW	HEAD	VOLTAGE/PHASE	DESCRIPTION	NOTES
HWP	BELL & GOSSETT	NBF-33	10.0 GPM	0.0 FT	120 V/1	CIRCULATION PUMP, BRONZE BODY. PROVIDE CLAMP-ON AQUASTAT FOR PUMP CONTROL.	1

PLUMBING FIXTURE SCHEDULE

GENERAL:
- PROVIDE FIXTURES WITH ALL TRIM NECESSARY FOR COMPLETE INSTALLATION.
- VENT SIZES ARE APPLICABLE ONLY FOR INDIVIDUAL FIXTURE VENTS WHERE ALTERNATE VENTING METHOD HAS NOT BEEN INDICATED ON PLANS.
- PROVIDE 1/4 TURN STOP VALVES ON ALL HOT AND COLD WATER SUPPLY LINE CONNECTIONS FOR FIXTURES. SHOWER VALVES SHALL HAVE INTEGRAL STOP VALVES.
- PROVIDE FLOOR DRAINS AND FLOOR SINKS WITH TRAP PRIMER OR TRAP PRIMER ALTERNATIVE EQUIVALENT TO PROVENT TRAP GUARD. PROVIDE AUTOMATIC TRAP PRIMER DEVICE WITH SINGLE OR MULTIPLE OUTLET PIPES AND ROUTE DRAINS TO PRIMER PORTS.

NOTES:
1. IN AREAS OPEN TO THE PUBLIC, FIXTURE AND INSTALLATION TO MEET REQUIREMENTS OF AMERICANS WITH DISABILLITIES ACT. IN APARTMENTS, FIXTURE AND INSTALLATION TO MEET REQUIREMENTS OF THE FAIR HOUSING ACT.
2. PROVIDE DEARBORN SUPPLIES WITH STOPS AND EXCUTCHEON PLATE, 1-1/4" CAST BRASS P-TRAP.
3. INSULATE WATER AND WASTE PIPING BELOW SINK. UTILIZE INSULATION KIT EQUIVALENT TO LAVGUARD BY TRUEBRO. PROVIDE PLUMBEREX MODEL #3071WD-N WASTE DISPOSAL COVER.
4. TRIM SHALL BE PROVIDED WITH POLISHED CHROME FINISH.
5. TRANSITION FROM 1/8" DRAIN TUBING TO 1/2" PVC DRAIN AND TERMINATE WITH AIR GAP AT NEAREST TENANT FLOOR DRAIN.
6. PLUMBING FIXTURE SELECTED BY INTERIOR DESIGNER, ALL SUBSTITUTIONS SHALL BE APPROVED BY INTERIOR DESIGNER.

MARK	MANUFACTURER	MODEL	PRODUCT DESCRIPTION	TRIM	ROUGH-IN SIZES			COLD	HOT	ADA COMPLIANT	NOTES
					DRAIN	VENT	WATER				
BT-A	AQUARIUS	S 6000 TS OT	REINFORCED FIBERGLASS TUB/SHOWER, 60"W X 33"D X 82"H, WITH INTEGRAL SOAP/TOILETRY SHELVES, AND GRAB BARS, FOLD UP SEAT AT END OF TUB, AND RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED, WHITE FINISH.	DELTA MODEL R10000-UNWS/T13H252 SINGLE HANDLE PRESSURE-BALANCING VALVE WITH METAL TUB FILLER WITH PULL DIVERTER, 1.5 GPM HAND SHOWER WITH DOUBLE CHECK VALVES, FLEXIBLE HOSE, 24" STAINLESS STEEL SLIDE BAR AND POP-UP DRAIN WITH OVERFLOW.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
BT-B	AQUARIUS	G 6063 TS	REINFORCED FIBERGLASS TUB/SHOWER, 60"W X 35-3/4"D X 76-1/2"H, WITH INTEGRAL SOAP/TOILETRY SHELVES, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED, WHITE FINISH.	DELTA MODEL R10000-UNWS/T13H232 SINGLE HANDLE PRESSURE-BALANCING VALVE WITH METAL TUB FILLER WITH PULL DIVERTER, 1.5 GPM PUSH-CLEAN SHOWERHEAD AND POP-UP DRAIN WITH OVERFLOW.	2"	1 1/2"	1/2"	Yes	Yes	No	
CCB	SIOUX CHIEF	696-2313	RECESSED WASHING MACHINE BOX WIH 2" PVC/ABS DRAIN COUPLING AND KNOCKOUT TEST CAP. TWO 1/4 TURN BALL BALBES WITH HAMMER ARRESTORS. PROVIDE WITH MANUFACTURERS SECONDARY DRAIN KIT TO ALLOW CONNECTION OF HOT WATER HEATER DRAIN PAN AT TOP OF BOX.		2"	2"	1/2"	Yes	Yes		
EWC	MURDOCK	A172100F-UG-BF12	DUAL LEVEL SELF-CONTAINED WATER COOLER WITH STAINLESS STEEL BASIN, FRONT PUSH BUTTON ACTUATORS, SENSOR OPERATED BOTTLER FILLER, LEAD-FREE COOLING SYSTEM, 120 VOLTS.		2"	1 1/2"	1/2"	Yes	No	Yes	1
2" FD-A	SIOUX CHIEF	833	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER.	TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAPGUARD	2"	2"					
2" FD-B	SIOUX CHIEF	822	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER.	TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAPGUARD	2"	2"					
3" FS	SIOUX CHIEF	861	12" SQUARE, 8" DEEP FLOOR SINK WITH WHITE PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER.	TRAP PROTECTION DEVICE EQUIVALENT TO PROSET TRAP GUARD	3"	2"					
ICB	SIOUX CHIEF	696-G1010	ICE MAKER CONNECTION BOX WITH 1/4 TURN BALL VALVE, AND 1/2" SWEAT COPPER CONNECTION.				1/2"	Yes	No		
KS	JUST	DLADA2233A-J	TWO COMPARTMENT 20 GA STAINLESS STEEL SINK, SELF RIMMING, (2) 12"X12"X6-3/8"D INSIDE, FULLY UNDERCOATED, FAUCET HOLES AS REQUIRED. IN-SINKERATOR: "BADGER 5" GARBAGE DISPOSAL, 1/2 HP 120V CORD AND PLUG CONNECTED.	DELTA MODEL 400-HDF SINGLE HANDLE KITCHEN SINK FAUCET WITH HOSE SPRAY ATTACHMENT. CHROME FINISH. PROVIDE BASKET STRAINER. IN-SINK-ERATOR: "BADGER 5" GARBAGE DISPOSAL, 1/2 HP,120V CORD AND PLUG CONNECTED.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,4
LAV	AMERICAN STANDARD	0610000.020	UNDERMOUNT LAVATORY, WHITE VITROUSE CHINA, 17" X 13" X 6"D	DELTA MODEL 559HAR-SS-DST SINGLE HANDLE FAUCET, STAINLESS STEEL FINISH. LEONARD MODEL TM-1 POINT OF USE MIXING VALVE. PROVIDE GRID DRAIN.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1,2,3,6
RH	WOODFORD	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"	Yes	No	No	5
SH-A	AQUA BATH CO.	C4136BF-OT-FUX 3/4"	CENTER DRAIN OPTION, REINFORCED FIBERGLASS ADA BASE MODEL SHOWER, 36"WX36"DX80"H WITH INTEGRAL SOAP/TOILETRY SHELVES IN ACCORDANCE WITH ADA REQUIREMENTS, FOLD-UP SEAT, RIGHT OR LEFT HAND ROUGH-IN AS REQUIRED, WHITE FINISH, PROVIDE WITH COLLAPSIBLE DAM. PROVIDE WITH NICKEL CHROME FINISH.	KOHLER / K-8304-KS PRESSURE BALANCING VALVE WITH INTEGRAL TEMPERATURE LIMITS AND STOPS / K-TS10276-4 VALVE TRIM / K-22173 WALL SUPPLY ELBOW / K-9514 60" HOSE / K-22165-G HAND SHOWER / K-8524 AND K-349 SLIDE BAR.	2"	1 1/2"	1/2"	Yes	Yes	No	
SH-B	AQUATIC	13636FHARRF	CAST ACRYLIC SHOWER, 36" SQUARE INSIDE, REAR MOLDED SOAP SHELF, PROVIDE WITH FHA BACKING. PROVIDE WITH NICKEL CHROME FINISH.	KOHLER / K-8304-KS PRESSURE BALANCING VALVE WITH INTEGRAL TEMPERATURE LIMITS AND STOPS / K-TS10276-4 VALVE TRIM.	2"	1 1/2"	1/2"	Yes	Yes	No	
SH-C	AQUARIUS	G-6233-BF-3/4	REINFORCED FIBERGLASS ADA ROLL-IN SHOWER, 60"W X 33"D X 73-3/4"H, WITH INTEGRAL SOAP/TOILETRY SHELVES AND GRAB BARS IN ACCORDANCE WITH ADA REQUIREMENTS, FOLD-UP SEAT, COLLAPSIBLE WATER DAM, WHITE FINISH.	DELTA MODEL R10700-UNWS/T13H333 SINGLE HANDLE PRESSURE-BALANCING VALVE, 1.5 GPM HAND SHOWER WITH DOUBLE CHECK VALVES, FLEXIBLE HOSE, 24" STAINLESS STEEL SLIDE BAR AND 1.5 GPM PUSH CLEAN SHOWERHEAD, ARM AND DIVERTER VALVE.	2"	1 1/2"	1/2"	Yes	Yes	Yes	1
SS	FIAT	MSB-2424	ONE PIECE MOLDED STONE MOP BASIN, 24" SQUARE, STAINLESS STEEL INTEGRAL DRAIN BODY WITH CAULK CONNECTION, STAINLESS STEEL WALL GUARDS.	CHICAGO FAUCET MODEL 897-CPP FAUCET WITH HOSE THREAD OUTLET, VACUUM BREAKER SPOUT, PAIL HOOK, WALL BRACE, INTEGRAL CHECK VALVES, METAL LEVER HANDLES.	3"	1 1/2"	3/4"	Yes	Yes	No	
WC-A	AMERICAN STANDARD	215AA.104	FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL	WHITE CLOSED FRONT SOFT CLOSE PLASTIC SEAT WITH COVER.	4"	2"	1/2"	Yes	No	Yes	1
WC-B	AMERICAN STANDARD	215CA.104	FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 15" HIGH BOWL.	WHITE CLOSED FRONT SOFT CLOSE PLASTIC SEAT WITH COVER.	4"	2"	1/2"	Yes	No	No	
WC-C	AMERICAN STANDARD	215AA.104	FLUSH TANK WATER CLOSET, WHITE VITREOUS CHINA, 3" FLUSH VALVE, 12" ROUGH-IN, ELONGATED 16-1/2" HIGH BOWL	WHITE OPEN FRONT SOFT CLOSE PLASTIC SEAT	4"	2"	1/2"	Yes	No	Yes	1

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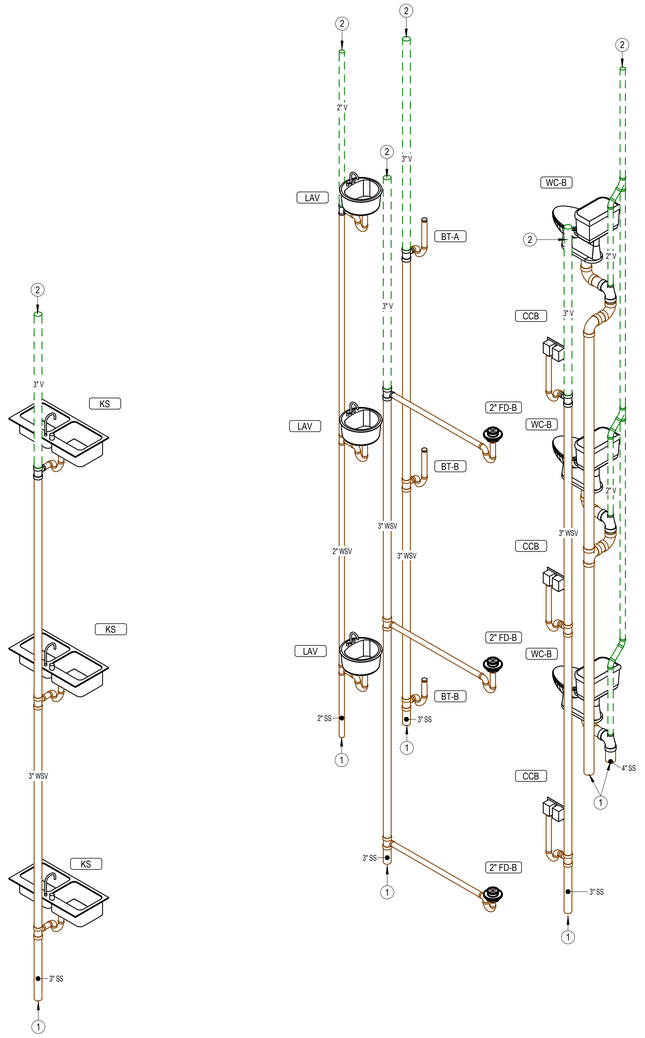
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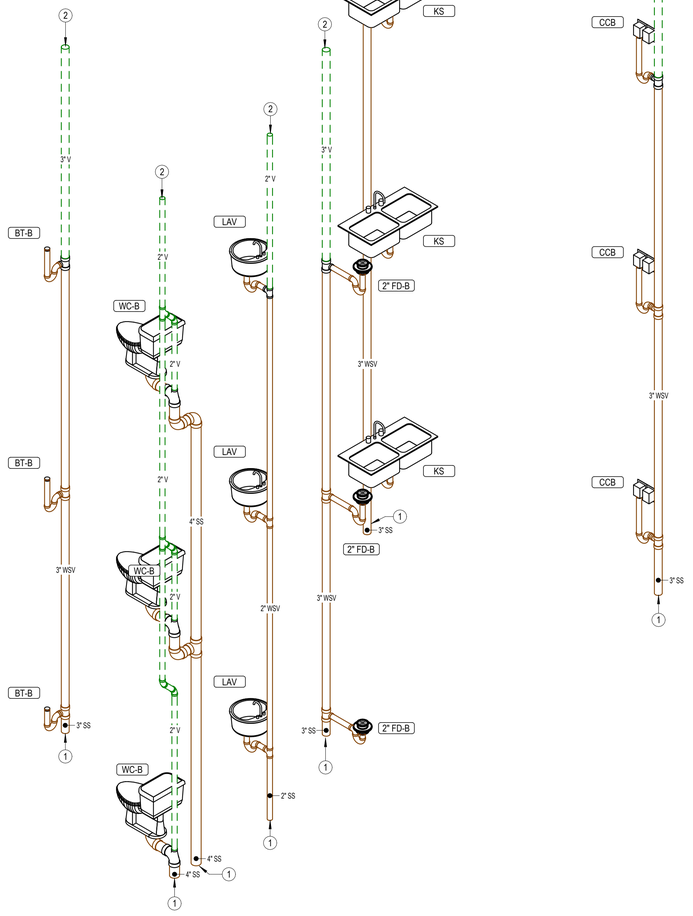
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1 **WASTE AND VENT RISER-1B**



2 **WASTE AND VENT RISER-2B**

WASTE AND VENT RISER SHEET NOTES

1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFORMATION.
2. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. FIELD VERIFY EXACT ROUTING OF PIPING WITH EXISTING STRUCTURAL CONDITIONS. PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
4. WHERE THE PLUMBING SYSTEM UTILIZES WATE STACK VENTING (WSV), THE STACK SHALL HAVE NO OFFSETS ABOVE THE LOWEST HORIZONTAL BRANCH CONNECTION SERVING THE STACK, IN ACCORDANCE WITH IPC SECTION 913.
5. SEE WASTE AND VENT FLOOR PLANS FOR CONTINUATIONS OF PIPING.

NOTES BY SYMBOL

1. SEE PP1.2 FOR CONTINUATION.
2. SEE PP1.5 FOR CONTINUATION.

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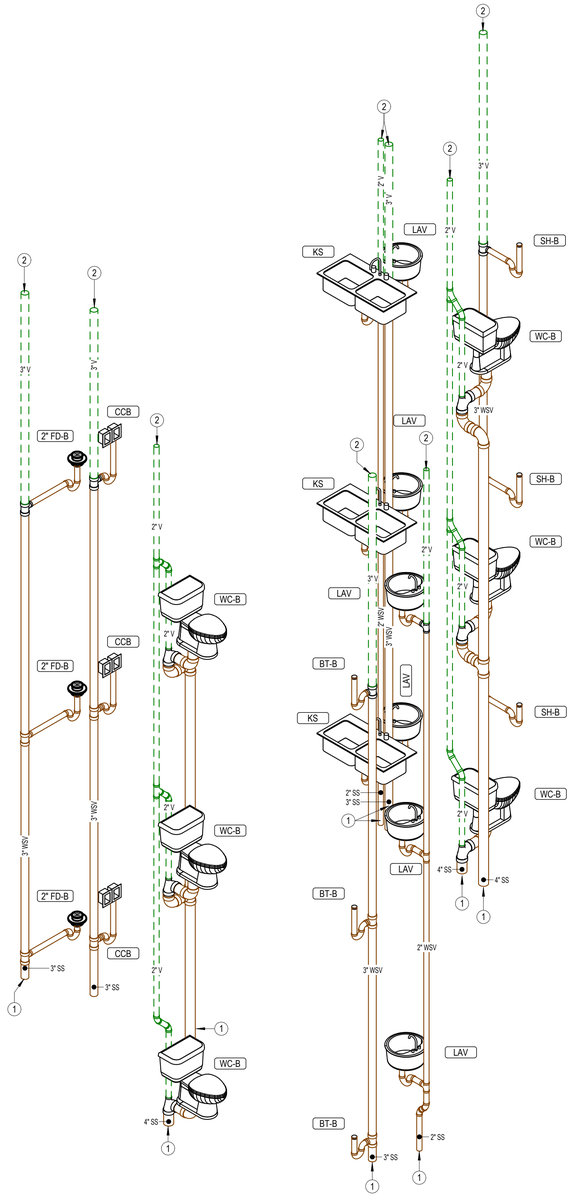
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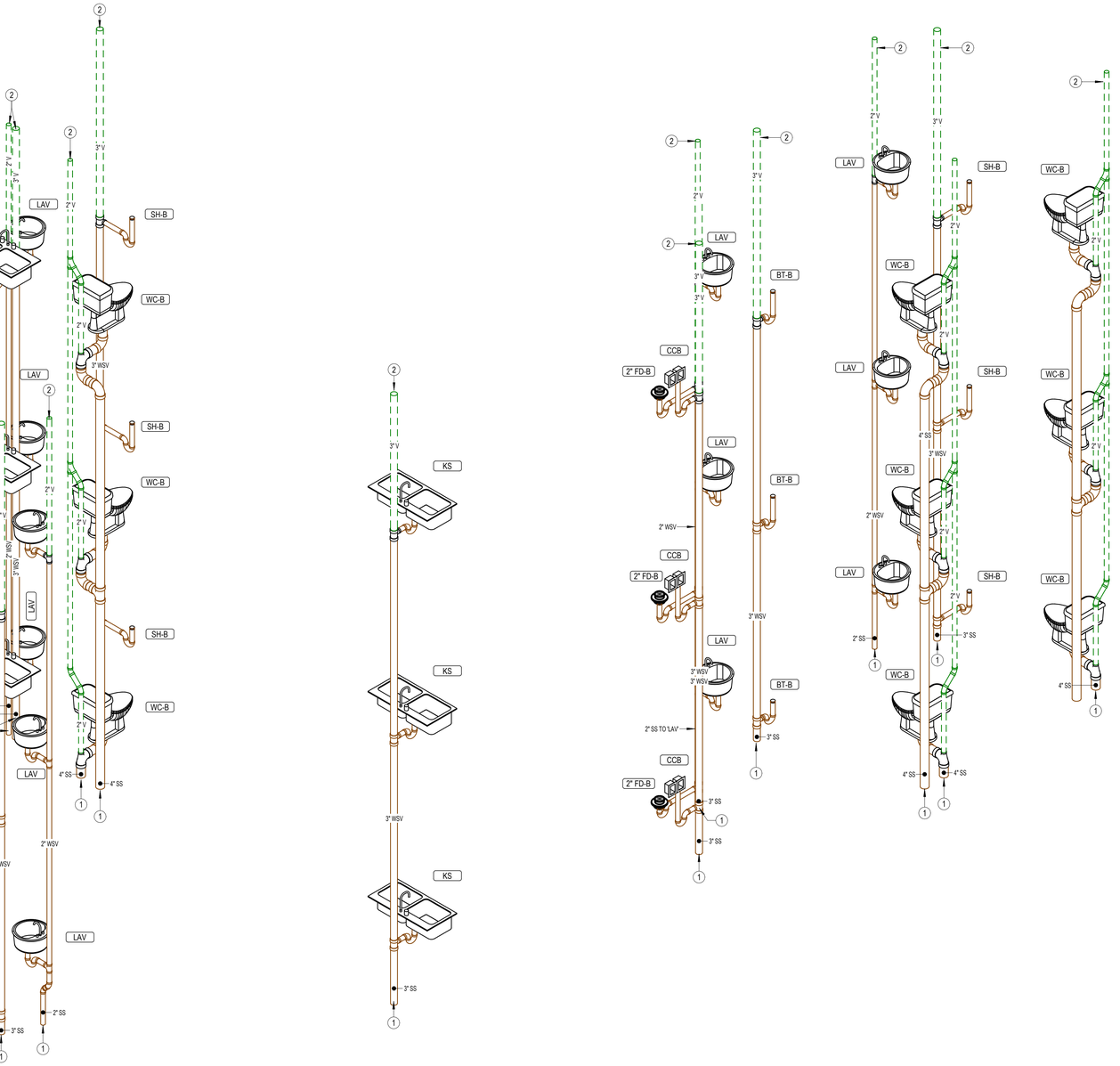
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1 WASTE AND VENT RISER-3B



2 WASTE AND VENT RISER-3C

WASTE AND VENT RISER SHEET NOTES

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NOTES BY SYMBOL

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2 SEE PP1.5 FOR CONTINUATION.

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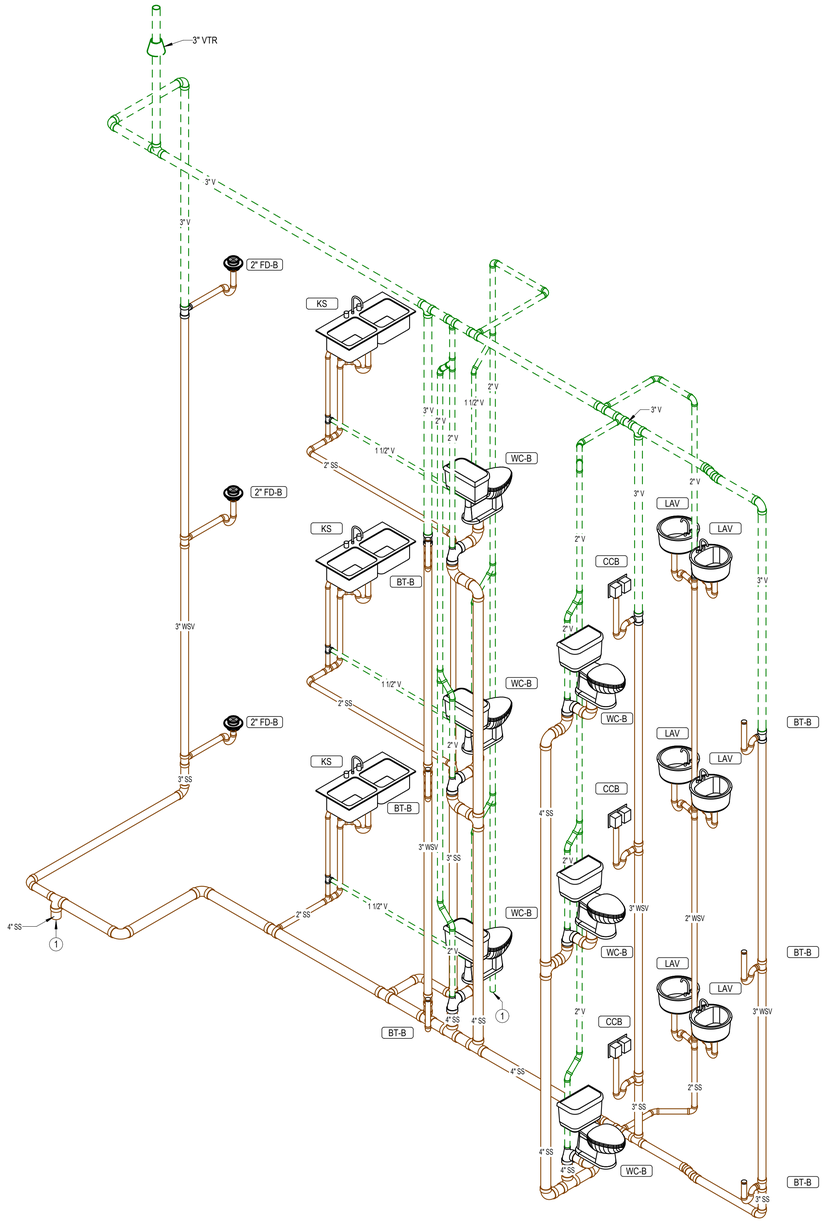
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1 WASTE AND VENT RISER-4A

WASTE AND VENT RISER SHEET NOTES

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5. SEE WASTE AND VENT FLOOR PLANS FOR CONTINUATIONS OF PIPING.

NOTES BY SYMBOL

1. SEE PP1.2 FOR CONTINUATION.

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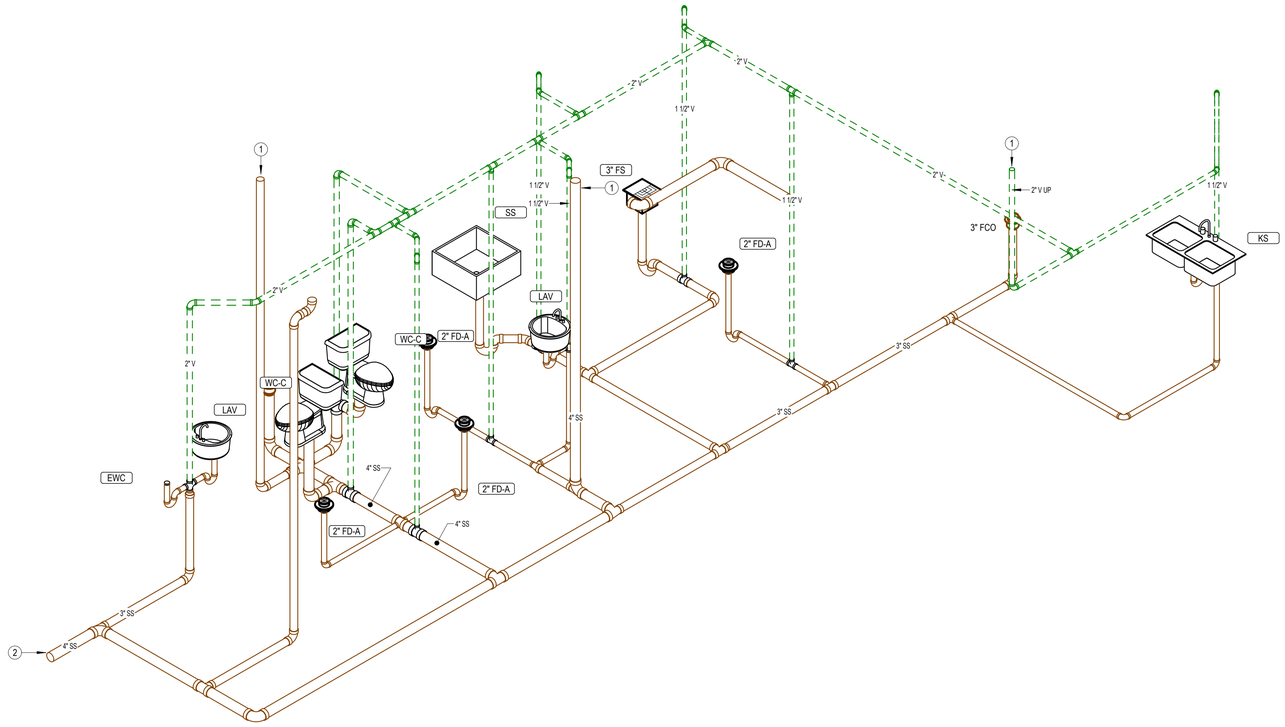
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1 WASTE & VENT RISER-CLUBHOUSE

WASTE AND VENT RISER SHEET NOTES

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5. SEE WASTE AND VENT FLOOR PLANS FOR CONTINUATIONS OF PIPING.

NOTES BY SYMBOL

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2. SEE PP1.1 FOR CONTINUATION.

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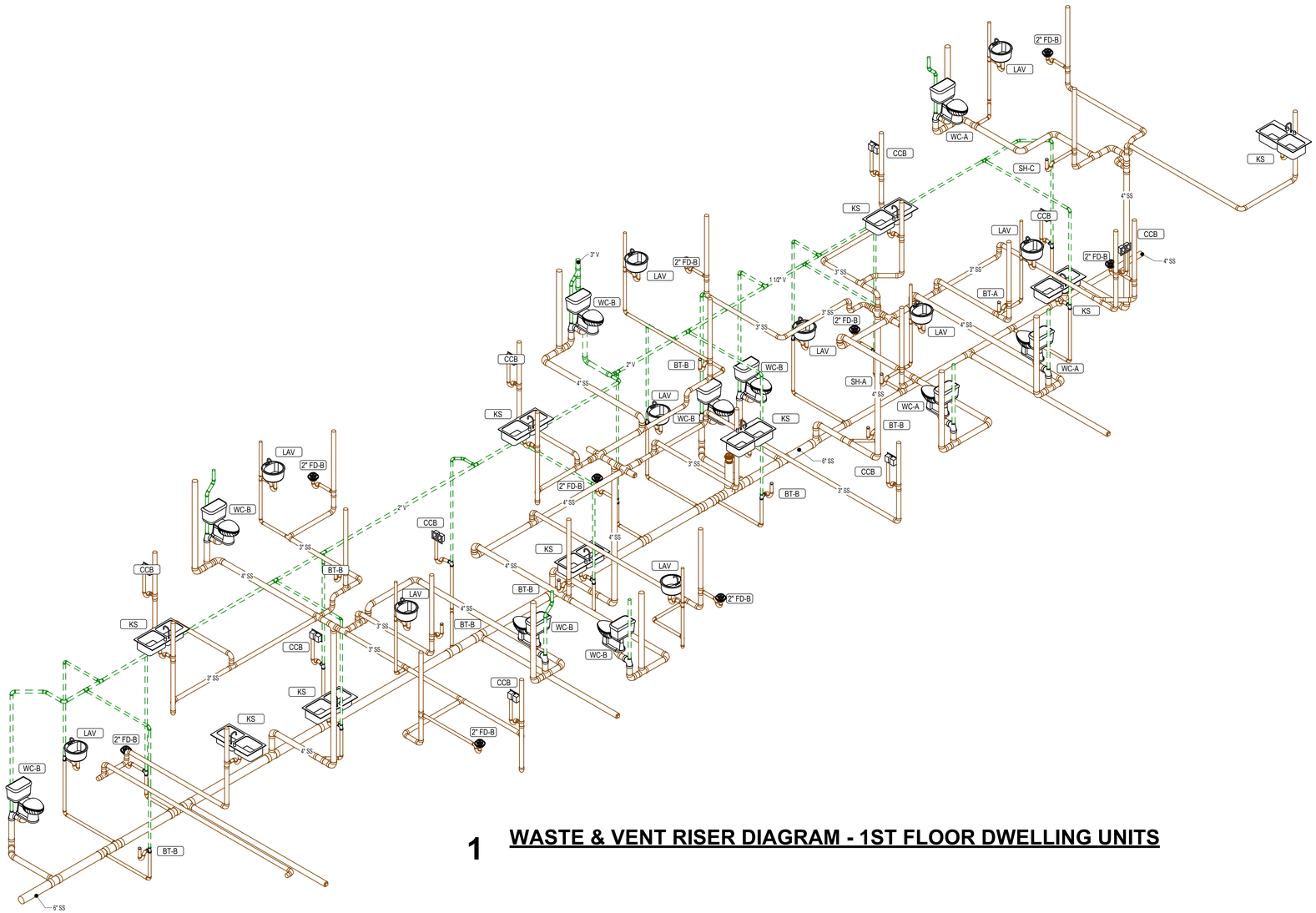
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1 WASTE & VENT RISER DIAGRAM - 1ST FLOOR DWELLING UNITS

WASTE AND VENT RISER SHEET NOTES

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5. SEE WASTE AND VENT FLOOR PLANS FOR CONTINUATIONS OF PIPING.

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THE RESERVES AT MEADOWS 25

NEW SENIOR LIVING FACILITY

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General Plan Symbols

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

Abbreviations

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

Equipment Abbreviations

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

* NOTE *

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

HVAC Symbols

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

Grille, Register, Diffusers

Square Ceiling Diffuser — CD- 500 / 10"Ø/24x24 — Type (See Schedule), Airflow, Neck Size / Module Size

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

Sidewall Supply Grille — SG5 300 / 18"/6" / AFF-0" — Type (See Schedule), Airflow, Nominal Duct Size, Mounting Elevation (Centerline)

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

Sidewall Return Grille — RG6 200 / 12"/6"/--- / AFF-0" — Type (See Schedule), Airflow, Nominal Duct Size, Mounting Elevation (Centerline)

Ceiling Return — CR2 200 / 8"Ø/24x24 — Type (See Schedule), Airflow, Neck Size / Module Size

Mechanical Equipment

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

Mechanical Control Devices

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

Damper Types

- B — Manual Damper
- M — Motorized Damper
- G — Backdraft Damper
- S — Smoke Damper
- F — Fire Damper
- C/S — Comb. Fire/ Smoke Damper

GENERAL HVAC NOTES

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

GENERAL MECHANICAL DEMOLITION NOTES

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

HVAC SHEET INDEX

M-0.1	HVAC TITLE SHEET
MH1.1	FIRST FLOOR HVAC PLAN
MH1.2	SECOND FLOOR HVAC PLAN
MH1.3	THIRD FLOOR HVAC PLAN
MH1.4	FOURTH FLOOR HVAC PLAN
M-4.1	ENLARGED HVAC PLANS
M-4.2	ENLARGED HVAC PLANS
M-6.1	MECHANICAL SCHEDULES

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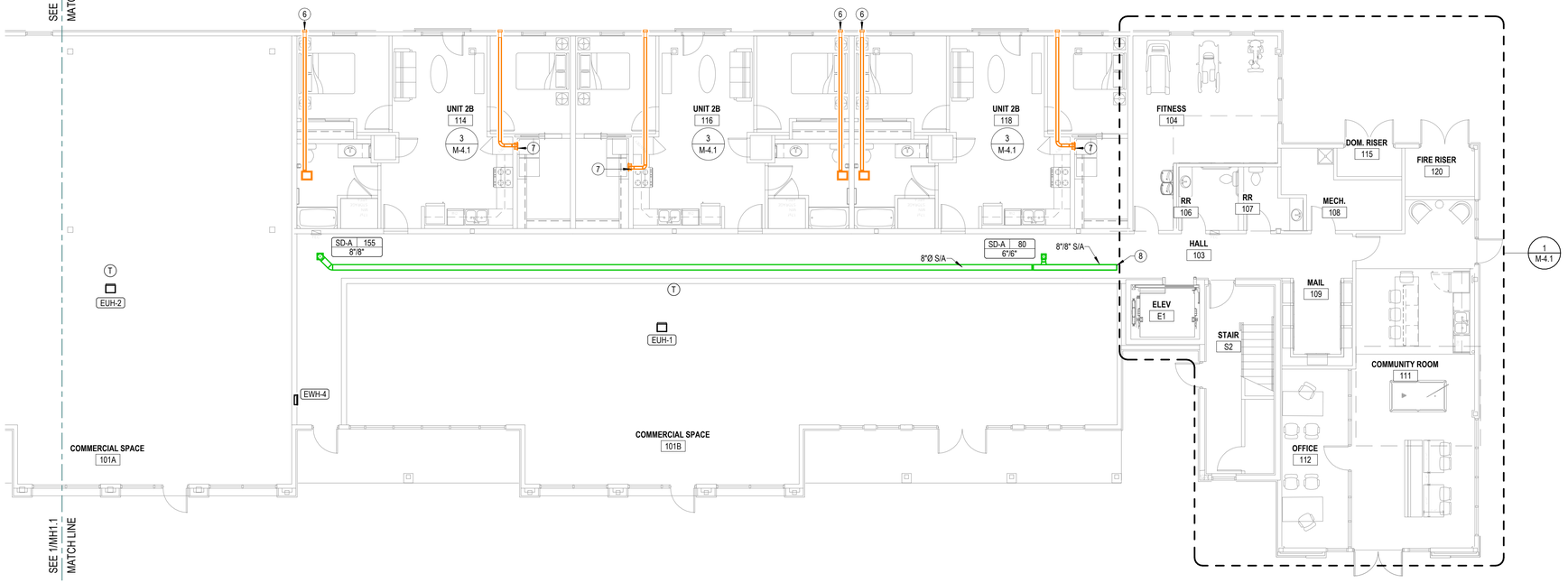
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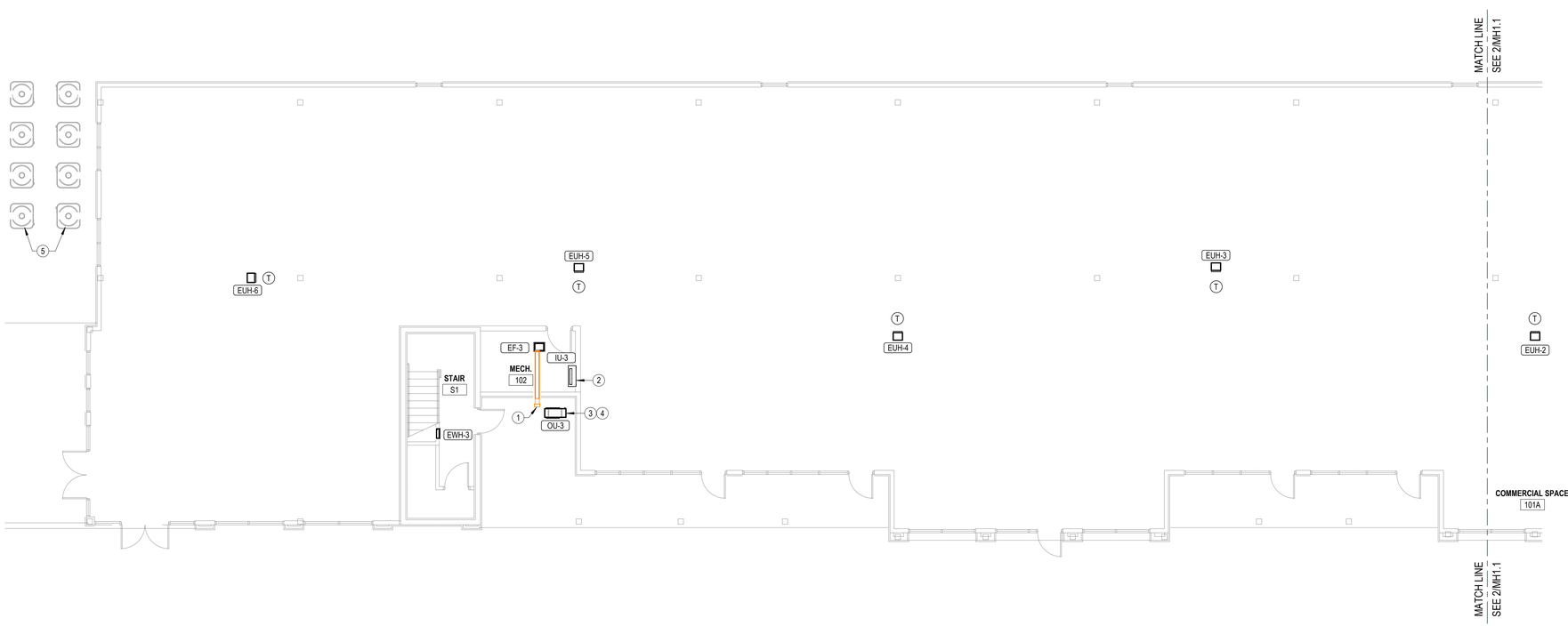
M-0.1

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2 FIRST FLOOR-HVAC FLOOR PLAN-AREA B

1/8" = 1'-0"



1 FIRST FLOOR-HVAC FLOOR PLAN-AREA A

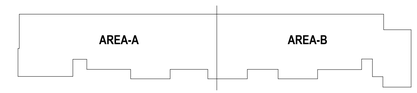
1/8" = 1'-0"

MECHANICAL SHEET NOTES

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2. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ALL PROVISIONS OF ASHRAE 15 INCLUDING LATEST ADDENDUM.
3. PROTECT PIPING PER ASHRAE 15 SECTION 9.12.
4. PRESSURE TEST PIPING PER ASHRAE 15 SECTION 9.13
5. DUCTWORK CONSTRUCTION SHALL COMPLY WITH 2018 IECC.
6. APARTMENT VENTILATION IS ACHEIVED VIA BATHROOM EXHAUST FAN PER 2018 IMC SECTION 403.3.2. SEE ELECTRICAL PLANS FOR TIMER SWITCH RUN TIMES, COORDINATE WITH E.C.

NOTES BY SYMBOL

1. ROUTE 6"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
2. ROUTE CONDENSATE PIPING TO SERVICE SINK, TERMINATE WITH ELBOW DOWN.
3. MOUNT HEAT PUMP ON 18" STAND, EQUAL TO QUICKSLING, ON 3-1/2" THICK LEVEL CONCRETE PAD.
4. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO MATCHING INDOOR UNIT. PENETRATE WALL 18" ABOVE GRADE AND ROUTE PIPING CONCEALED IN WALL AND ABOVE CEILINGS. COORDINATE LINE SIZE WITH MANUFACTURER. PROVIDE PENETRATION SEAL EQUAL TO AIREX TITAN OUTLET.
5. SPACE ALLOCATED FOR FUTURE 1ST FLOOR COMMERCIAL TENANT CONDENSING UNITS.
6. ROUTE 4"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
7. 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 MANUFACTURER'S WALL CAP. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED 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.
8. SEE 1:M-4.1 FOR CONTINUATION.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
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RYAN PATRICK LINN
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KANSAS PROFESSIONAL ENGINEER
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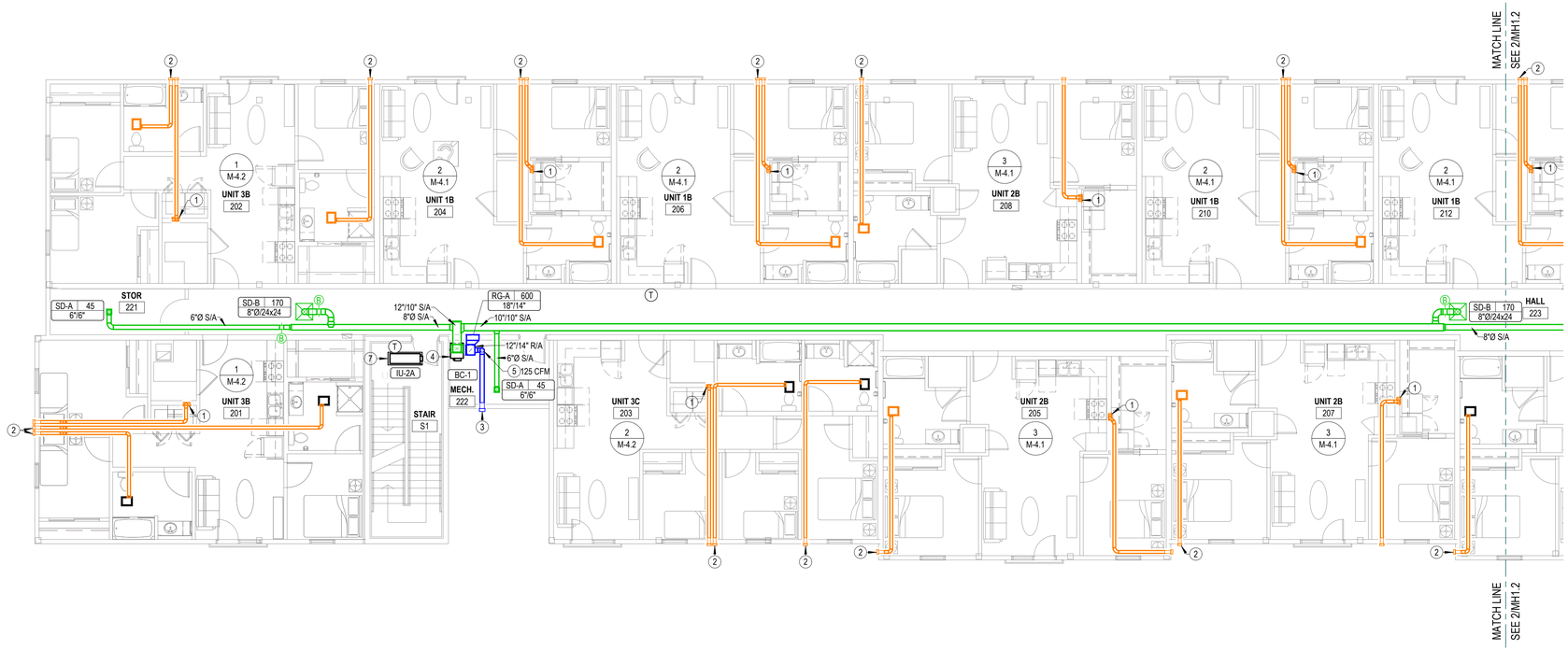
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2 SECOND FLOOR-HVAC FLOOR PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 SECOND FLOOR-HVAC FLOOR PLAN-AREA A

1/8" = 1'-0"

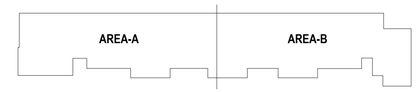
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MECHANICAL SHEET NOTES

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NOTES BY SYMBOL

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4. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CORRESPONDING HEAT PUMP UNIT ON ROOF AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. SEE ME1.2 FOR HEAT PUMP LOCATIONS.
5. CONNECT OUTDOOR AIR DUCT TO RETURN AIR DUCT. PROVIDE BALANCING DAMPERS AND BALANCE AS INDICATED ON PLANS, SEE DETAIL 2:M6.1 FOR MORE INFORMATION.
6. COMBINE CONDENSATE FROM STAIRWELL INDOOR UNITS AND ROUTE CONDENSATE CONCEALED IN WALL DOWN TO NEAREST MECHANICAL ROOM, TERMINATE ABOVE SERVICE SINK WITH ELBOW DOWN. COORDINATE WITH G.C.
7. ROUTE CONDENSATE TO FLOOR DRAIN IN MECHANICAL ROOM, TERMINATE ABOVE FLOOR DRAIN WITH ELBOW DOWN.



KEY PLAN

NO SCALE

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PATRICK LEE LICENSED 24155 KANSAS PROFESSIONAL ENGINEER

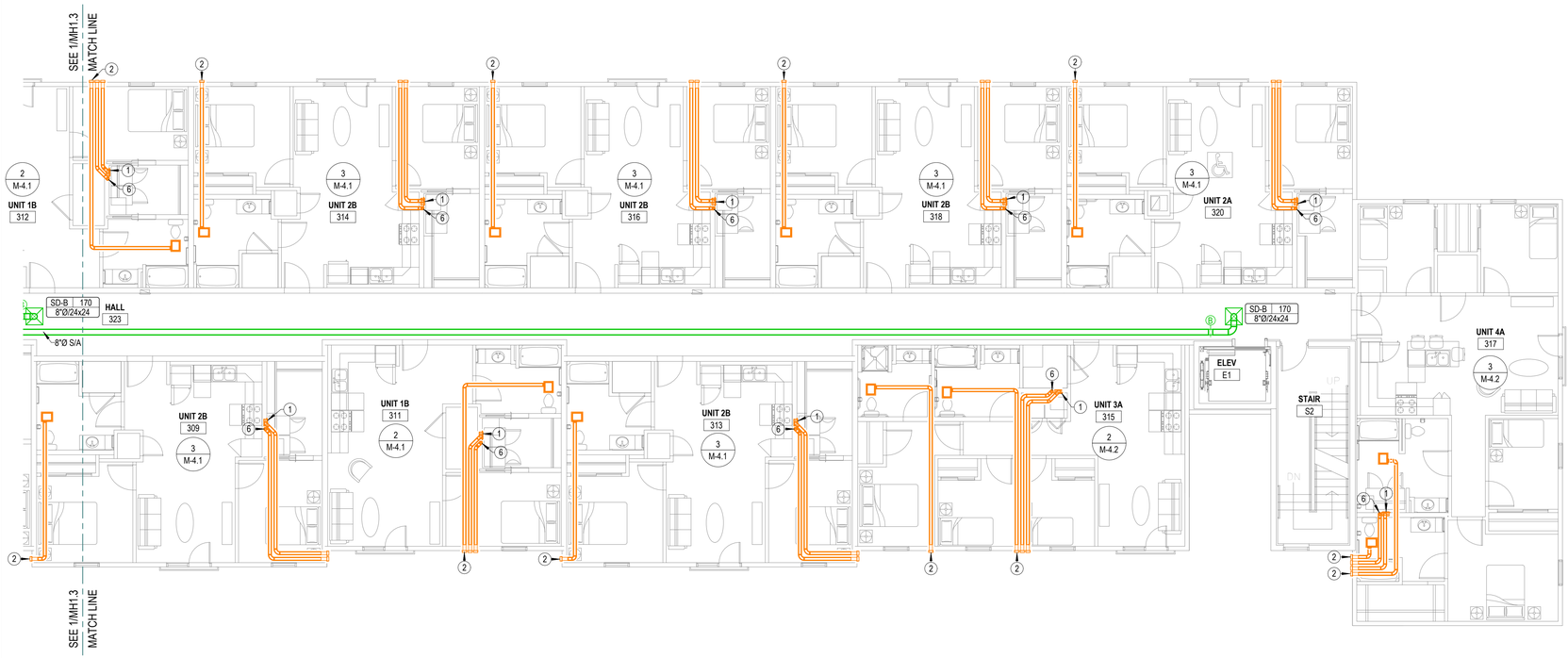
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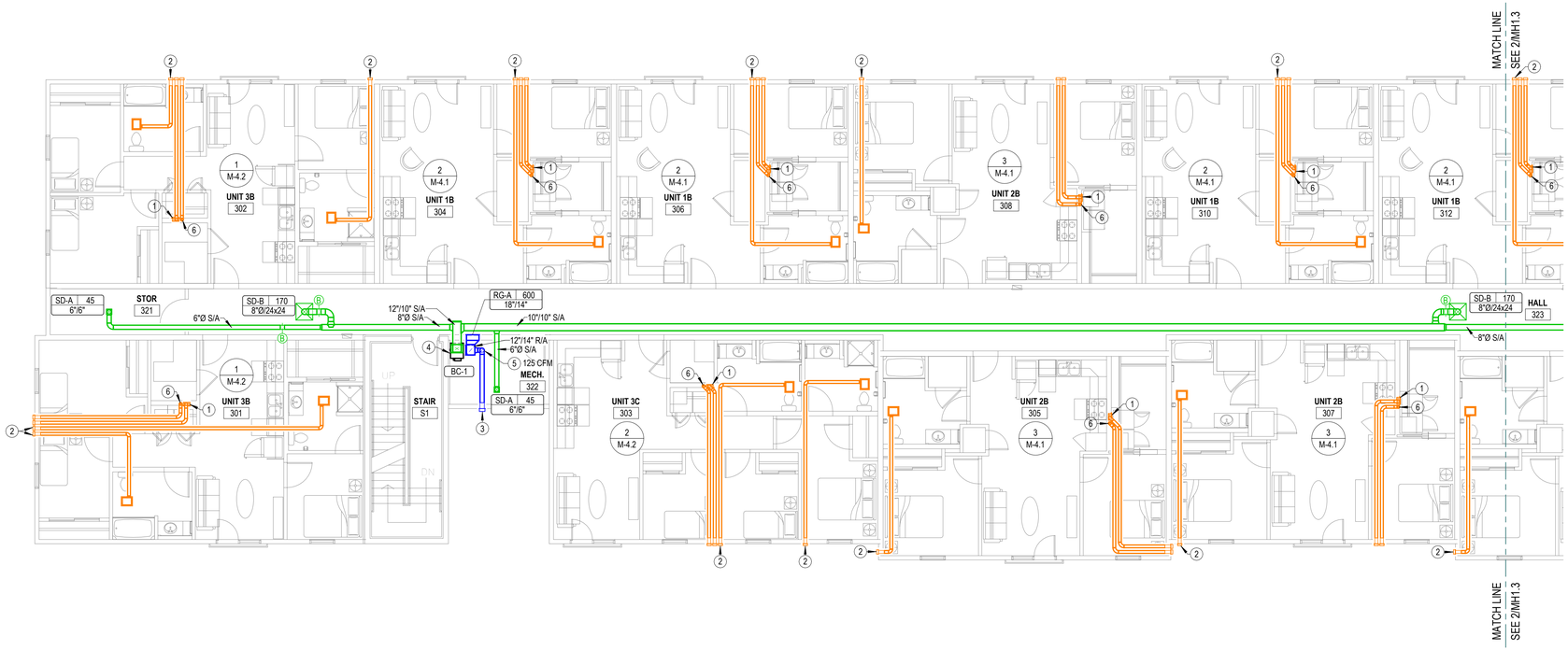
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2 THIRD FLOOR-HVAC FLOOR PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 THIRD FLOOR-HVAC FLOOR PLAN-AREA A

1/8" = 1'-0"

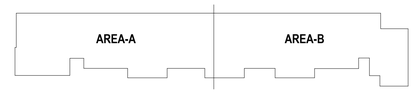
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MECHANICAL SHEET NOTES

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6. 4"Ø DRYER EXHAUST DUCT FROM FLOOR ABOVE, ROUTE TO MANUFACTURER'S WALL CAP.



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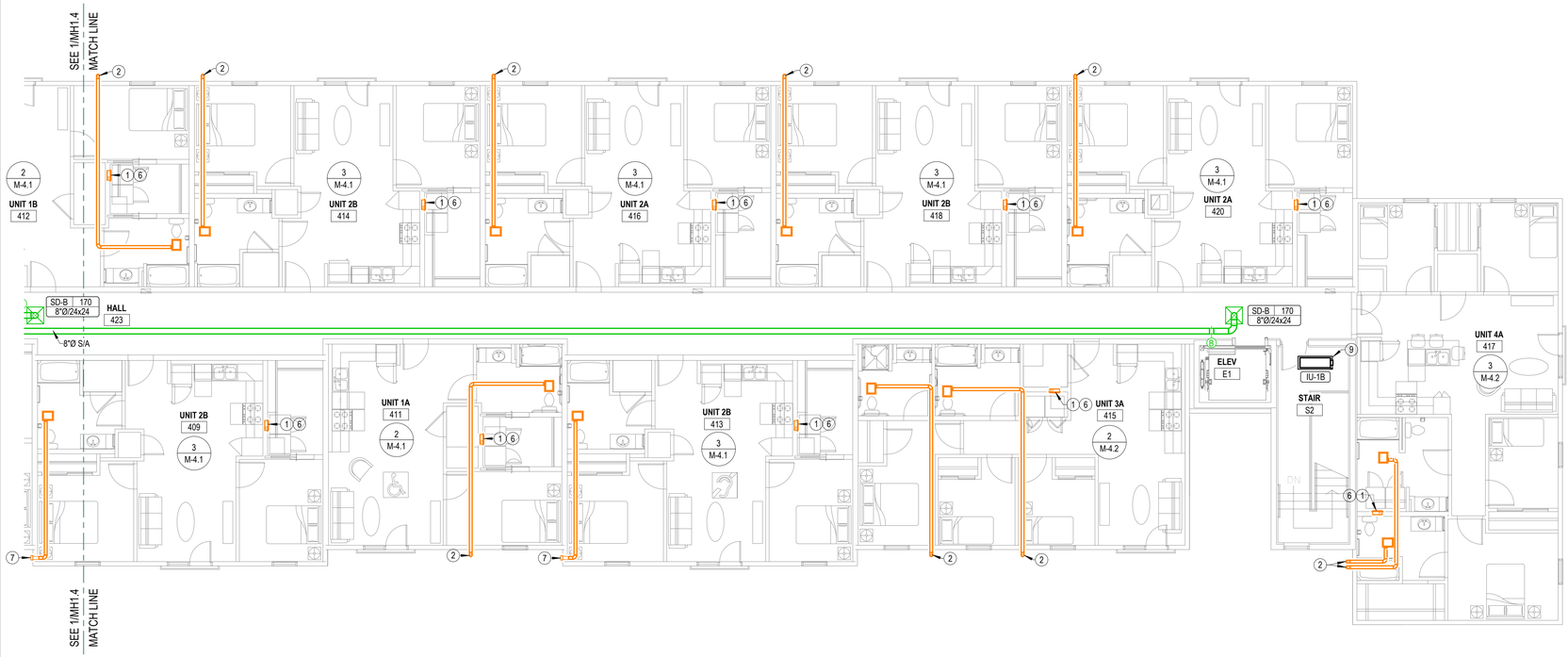
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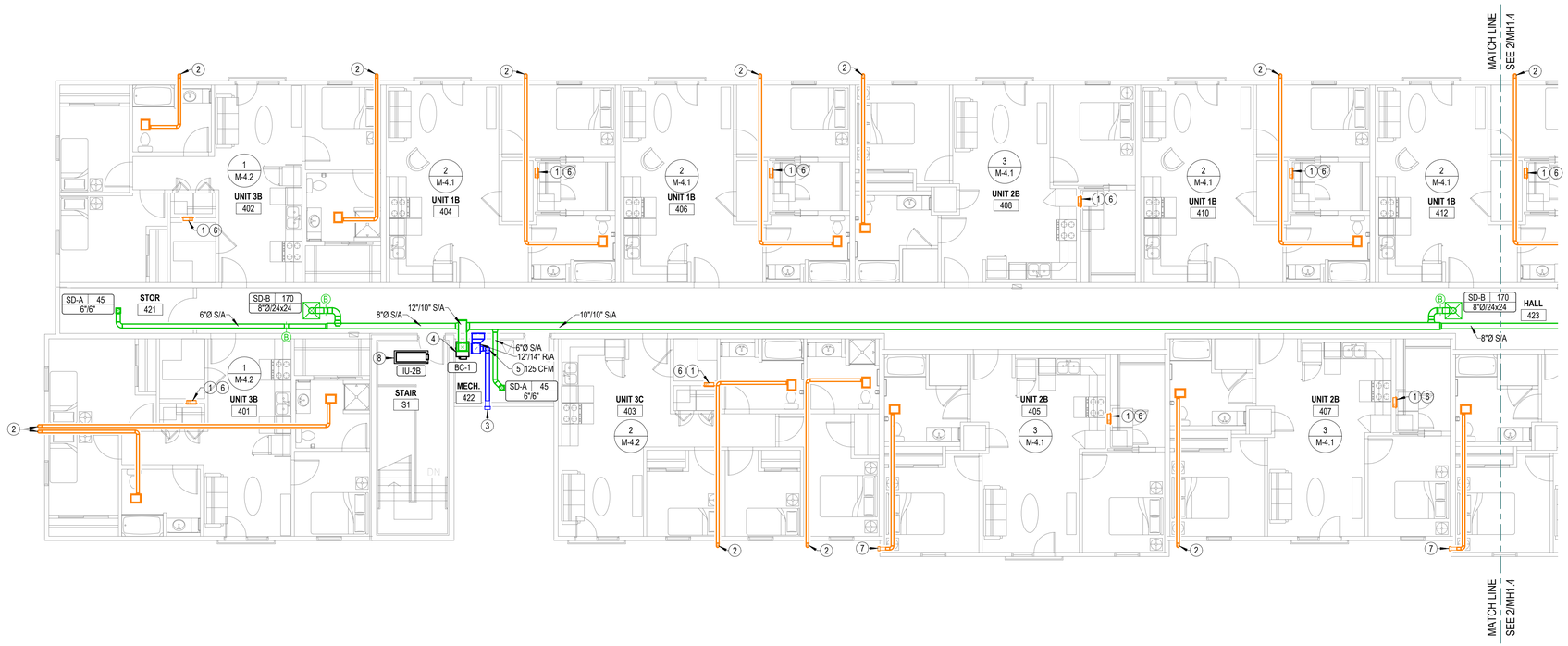
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2 FOURTH FLOOR-HVAC FLOOR PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 FOURTH FLOOR-HVAC FLOOR PLAN-AREA A

1/8" = 1'-0"

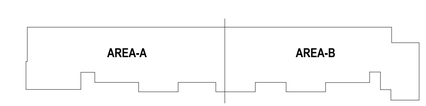
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6. APARTMENT VENTILATION IS ACHEIVED VIA BATHROOM EXHAUST FAN PER 2018 IMC SECTION 403.3.2. SEE ELECTRICAL PLANS FOR TIMER SWITCH RUN TIMES, COORDINATE WITH E.C.

NOTES BY SYMBOL

1. 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 MANUFACTURER'S WALL CAP. MAXIMUM ALLOWABLE EQUIVALENT DUCT LENGTH = 35'. UTILIZE LONG RADIUS SMOOTH ELBOWS WHERE REQUIRED. MAXIMUM EQUIVALENT DUCT LENGTH MAY BE INCREASED 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.
2. ROUTE 4"Ø EXHAUST DUCT TO MANUFACTURER'S SOFFIT VENT WITH BACKDRAFT DAMPER AND BIRD SCREEN.
3. ROUTE 6"Ø OUTDOOR AIR DUCT TO MANUFACTURER'S WALL CAP WITH BIRD SCREEN.
4. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CORRESPONDING HEAT PUMP UNIT ON ROOF AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. SEE ME1.2 FOR HEAT PUMP LOCATIONS.
5. CONNECT OUTDOOR AIR DUCT TO RETURN AIR DUCT. PROVIDE BALANCING DAMPERS AND BALANCE AS INDICATED ON PLANS, SEE DETAIL 2/M6.1 FOR MORE INFORMATION.
6. ROUTE 4"Ø DRYER EXHAUST DUCT DOWN TO ABOVE CEILING OF THIRD FLOOR, SEE THIRD FLOOR HVAC PLANS ON SHEET MH1.3 FOR CONTINUATION.
7. ROUTE 4"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
8. ROUTE CONDENSATE TO FLOOR DRAIN IN MECHANICAL ROOM, TERMINATE ABOVE FLOOR DRAIN WITH ELBOW DOWN.
9. COMBINE CONDENSATE FROM STAIRWELL INDOOR UNITS AND ROUTE CONDENSATE CONCEALED IN WALL DOWN TO NEAREST MECHANICAL ROOM, TERMINATE ABOVE SERVICE SINK WITH ELBOW DOWN. COORDINATE WITH G.C.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

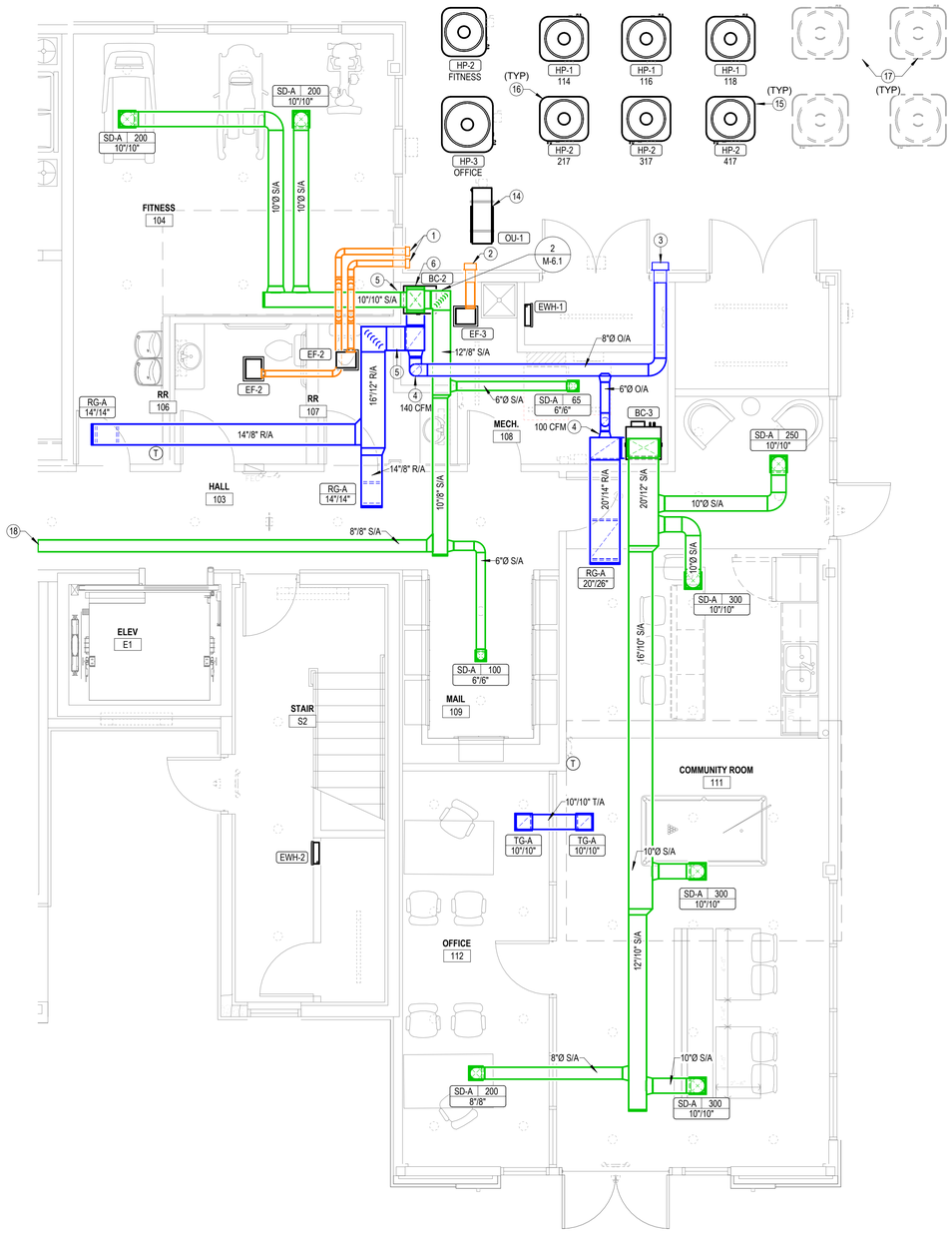
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DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

MH1.4

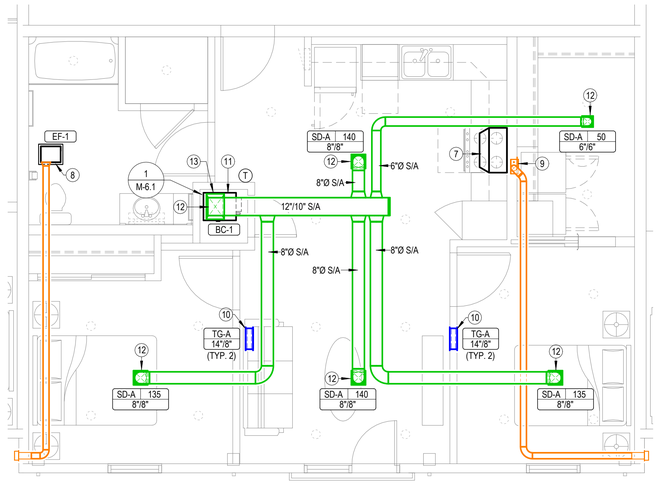
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1 ENLARGED HVAC PLAN-CLUBHOUSE

1/4" = 1'-0"

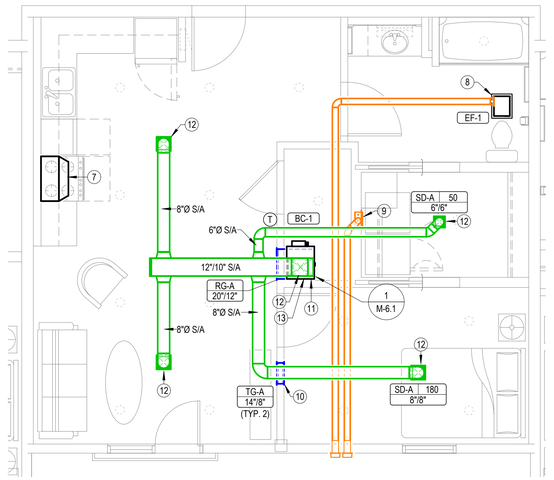
0 2' 4' 8'



3 ENLARGED HVAC PLAN-2B

1/4" = 1'-0"

0 2' 4' 8'



2 ENLARGED HVAC PLAN-1B

1/4" = 1'-0"

0 2' 4' 8'

MECHANICAL SHEET NOTES

1. PROVIDE SHOP DRAWINGS SHOWING EXACT ROUTING OF REFERIGERANT PIPING FOR REVIEW BY ARCHITECT AND ENGINEER.
2. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ALL PROVISIONS OF ASHRAE 15 INCLUDING LATEST ADDENDUM.
3. PROTECT PIPING PER ASHRAE 15 SECTION 9.12.
4. PRESSURE TEST PIPING PER ASHRAE 15 SECTION 9.13
5. DUCTWORK CONSTRUCTION SHALL COMPLY WITH 2018 IECC.
6. APARTMENT VENTILATION IS ACHEIVED VIA BATHROOM EXHAUST FAN PER 2018 IMC SECTION 403.3.2. SEE ELECTRICAL PLANS FOR TIMER SWITCH RUN TIMES, COORDINATE WITH E.C.

NOTES BY SYMBOL

1. ROUTE 4"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
2. ROUTE 6"Ø EXHAUST DUCT TO MANUFACTURER'S WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
3. ROUTE 8"Ø OUTDOOR AIR DUCT TO MANUFACTURER'S WALL CAP WITH BIRD SCREEN.
4. CONNECT OUTDOOR AIR DUCT TO RETURN AIR DUCT. PROVIDE BALANCING DAMPERS AND BALANCE AS INDICATED ON PLANS, SEE DETAIL 2:M6.1 FOR MORE INFORMATION.
5. ROUTE DUCT AS HIGH AS POSSIBLE BELOW STRUCTURE.
6. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CORRESPONDING HEAT PUMP UNIT ON GRADE AND ROUTE PIPING CONCEALED IN WALL AND ABOVE CEILINGS.
7. RANGE HOOD PROVIDED BY OTHER.
8. SEE MH1.2 - MH1.4 FOR BATHROOM EXHAUST DUCT ROUTING.
9. SEE MH1.2 - MH1.4 FOR DRYER EXHAUST DUCT ROUTING.
10. MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. WHERE WALL SPACE IS NOT AVAILABLE, INSTALL ABOVE DOOR AND OFFSET AS MUCH AS POSSIBLE. LINE STUD CAVITY WITH SHEET METAL DUCTWORK.
11. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CORRESPONDING HEAT PUMP UNIT ON ROOF AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. SEE ME1.2 FOR HEAT PUMP LOCATIONS.
12. PROVIDE ALL SUPPLY AIR PENETRATIONS OF CEILING WITH U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIVALENT.
13. PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
14. MOUNT HEAT PUMP ON 18" STAND, EQUAL TO QUICKSLING, ON 3-1/2" THICK LEVEL CONCRETE PAD.
15. MOUNT HEAT PUMP ON 3-1/2" THICK LEVEL CONCRETE PAD.
16. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO MATCHING BLOWER COIL/INDOOR UNIT CONCEALED IN WALLS AND ABOVE CEILINGS. INSTALL EXTERIOR PIPING ABOVE GRADE ON UNISTRUT SUPPORTS AND PROVIDE PVC OR ALUMINIUM JACKETING FOR ALL EXTERIOR REFRIGERANT PIPING. PENETRATE WALL 18" ABOVE GRADE. PROVIDE PIPING PENETRATION ASSEMBLY EQUAL TO RPH WALL VAULT WITH EXIT SEALS FOR REFRIGERANT PIPING AND ELECTRICAL CONDUIT. SUBMIT PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION.
17. SPACE ALLOCATED FOR FUTURE 1ST FLOOR COMMERCIAL TENANT CONDENSING UNITS.
18. SEE 2:MH1.1 FOR CONTINUATION.

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THE RESERVES AT MEADOWS 25

NEW SENIOR LIVING FACILITY

GODDARD, KANSAS

KENT PATRICK LUX LICENSED 24155 KANSAS PROFESSIONAL ENGINEER

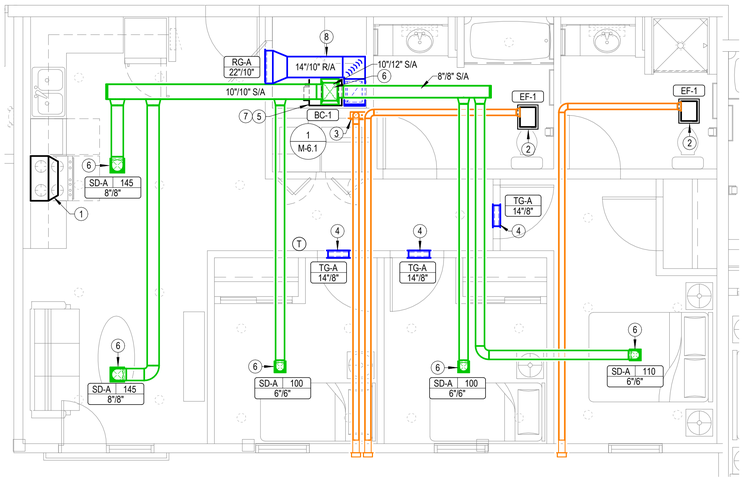
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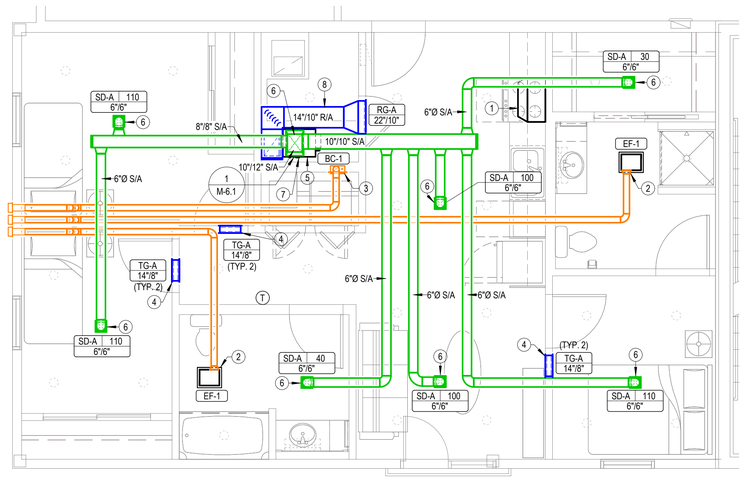
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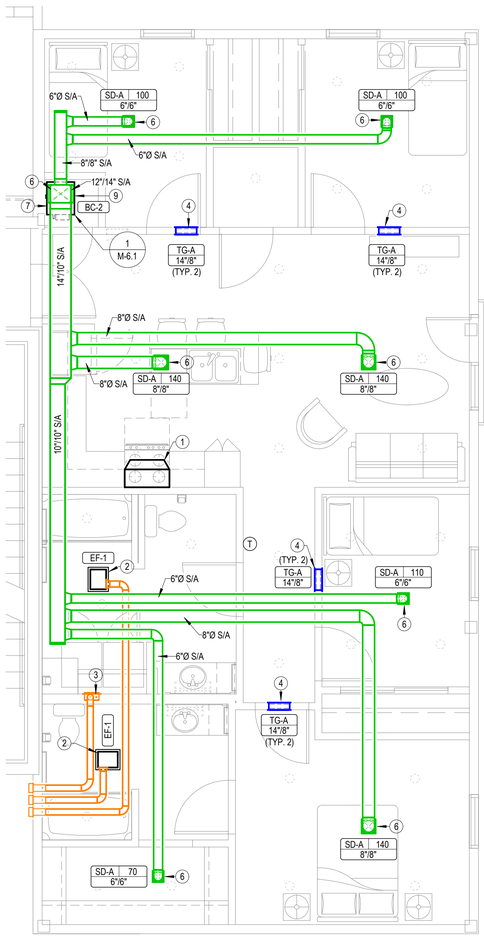
2 ENLARGED HVAC PLAN-3C

1/4" = 1'-0"



1 ENLARGED HVAC PLAN-3B

1/4" = 1'-0"



3 ENLARGED HVAC PLAN-4A

1/4" = 1'-0"

MECHANICAL SHEET NOTES

1. PROVIDE SHOP DRAWINGS SHOWING EXACT ROUTING OF REFERIGERANT PIPING FOR REVIEW BY ARCHITECT AND ENGINEER.
2. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ALL PROVISIONS OF ASHRAE 15 INCLUDING LATEST ADDENDUM.
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NOTES BY SYMBOL

1. RANGE HOOD PROVIDED BY OTHER.
2. SEE MH1.2 - MH1.4 FOR BATHROOM EXHAUST DUCT ROUTING.
3. SEE MH1.2 - MH1.4 FOR DRYER EXHAUST DUCT ROUTING.
4. MOUNT TRANSFER GRILLE IN BEDROOM 6" BELOW CEILING AND MOUNT TRANSFER GILLE ON OPPOSITE SIDE OF WALL 6" ABOVE FINISHED FLOOR. WHERE WALL SPACE IS NOT AVAILABLE, INSTALL ABOVE DOOR AND OFFSET AS MUCH AS POSSIBLE. LINE STUD CAVITY WITH SHEET METAL DUCTWORK.
5. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CORRESPONDING HEAT PUMP UNIT ON ROOF AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. SEE ME1.2 FOR HEAT PUMP LOCATIONS.
6. PROVIDE ALL SUPPLY AIR PENETRATIONS OF CEILING WITH U.L. LISTED RADIATION DAMPER, GREENHECK CRD OR EQUIVALENT.
7. PROVIDE AUXILIARY DRAIN PAN BELOW BLOWER COIL AND PIPE OVERFLOW DRAIN TO FLOOR DRAIN.
8. ROUTE DUCT CONCEALED ABOVE LOWERED CEILING OR IN SOFFIT, COORDINATE WITH ARCHITECT.
9. ROUTE REFRIGERANT PIPING FROM BLOWER COIL TO CORRESPONDING HEAT PUMP UNIT ON GRADE AND ROUTE PIPING CONCEALED IN WALL AND ABOVE CEILINGS.

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

JOHN PATRICK LAMB LICENSED 24155 KANSAS PROFESSIONAL ENGINEER
2026.04.22 14:29:37-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

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GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

GENERAL:
1. PROVIDE MOUNTING FRAME AS REQUIRED FOR CEILING TYPE.
2. MAXIMUM NC SHALL BE 25.
3. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS NECK, U.N.O.
4. PAINT OBJECTS VISIBLE THROUGH GRILLES WITH FLAT BLACK PAINT.
5. COORDINAT LOCATIONS OF ALL WALL DEVICES WITH ARCHITECT.

MARK	MANUFACTURER	MODEL	APPLICATION				MOUNTING	DAMPER	DESCRIPTION
			SUPPLY	RETURN	EXAUST	TRANSFER			
RG-A	TITUS	350RL		■			Lay-In Panel Frame	No	STEEL LOUVERED RETURN GRILLE, SIZE AS INDICATED ON DRAWINGS.
RG-A	TITUS	350RL		■			Surface Mount	No	STEEL LOUVERED RETURN GRILLE, SIZE AS INDICATED ON DRAWINGS.
SD-A	TITUS	300R	■				Surface Mount	Yes	STEEL DOUBLE DEFLECTION SUPPLY GRILLE WITH FRONT BLADES PARALLEL TO LONG DIMENSION, SIZE AS INDICATED ON DRAWINGS.
SD-B	TITUS	TMS	■				Lay-In Full Face	No	24"x24" STEEL SQUARE CONE DIFFUSER, NECK SIZE AS INDICATED ON DRAWINGS.
TG-A	TITUS	350RL				■	Surface Mount	No	STEEL LOUVERED TRANSFER GRILLE, SIZE AS INDICATED ON DRAWINGS.

EXHAUST FAN SCHEDULE

NOTES:
1. FIXTURE SHALL OPERATE AT < 1 SONE.
2. PROVIDE EC MOTOR WITH INTEGRAL DISCONNECT.
3. PROVIDE INTEGRAL BACKDRAFT DAMPER.

MARK	MANUFACTURER	MODEL	CFM	ESP	POWER	ELECTRICAL	
						VOLTAGE	PHASE
EF-1	PANASONIC	FV-0511VQ1	80 CFM	0.25 in-wg	24 W	120 V	1
EF-2	PANASONIC	FV-0511VQ1	50 CFM	0.25 in-wg	24 W	120 V	1
EF-3	PANASONIC	FV-0511VQ1	110 CFM	0.25 in-wg	24 W	120 V	1

ELECTRIC HEATER SCHEDULE

NOTES:
1. PROVIDE WITH HIGH TEMP. THERMAL CUTOUT AND FAN DELAY.
2. PROVIDE WITH INTEGRAL THERMOSTAT.
3. PROVIDE WITH SURFACE MOUNT OR RECESSED FRAME AS REQUIRED. FIELD COORDINATE EXACT REQUIREMENTS WITH EXISTING CONDITIONS AND ARCH.
4. PROVIDE MOUNTING BRACKET AS REQUIRED.
5. MOUNT AS HIGH AS POSSIBLE, PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE WITH 24V THERMOSTAT.
7. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

MARK	MANUFACTURER	MODEL	WATTS	VOLT	PHASE	DESCRIPTION	NOTES
EUH-1	TRANE	UHEC	7.5 kW	208 V	1	FAN FORCED UNIT HEATER	1,4,5,6,7
EUH-2	TRANE	UHEC	7.5 kW	208 V	1	FAN FORCED UNIT HEATER	1,4,5,6,7
EUH-3	TRANE	UHEC	7.5 kW	208 V	1	FAN FORCED UNIT HEATER	1,4,5,6,7
EUH-4	TRANE	UHEC	7.5 kW	208 V	1	FAN FORCED UNIT HEATER	1,4,5,6,7
EUH-5	TRANE	UHEC	7.5 kW	208 V	1	FAN FORCED UNIT HEATER	1,4,5,6,7
EUH-6	TRANE	UHEC	7.5 kW	208 V	1	FAN FORCED UNIT HEATER	1,4,5,6,7
EWH-1	TRANE	UHWA	3.0 kW	208 V	1	ARHITECTURAL FAN FORCED WALL HEATER	1,2,3,7
EWH-2	Trane	UHWA	1.5 kW	120 V	1	Architectural fan forced wall heater	1,2,3,7
EWH-3	Trane	UHWA	1.5 kW	120 V	1	Architectural fan forced wall heater	1,2,3,7
EWH-4	Trane	UHWA	1.5 kW	120 V	1	Architectural fan forced wall heater	1,2,3,7

BLOWER COIL SCHEDULE

NOTES:
1. SINGLE POINT CONNECTION REQUIRED, COORDINATE THE EXACT ELECTRICAL REQUIREMENTS OF EQUIPMENT PROVIDED WIH E.C.
2. ELECTRIC HEATER SHALL NOT OPERATE SIMULTANEOUSLY WITH HEAT PUMP. ELECTRIC HEATER SHALL BE USED AS BACK-UP HEAT ONLY.
3. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT COMPATIBLE WITH REQUIREMENTS OF 2021 IECC.
4. PROVIDE 2 SETS OF MERV-8 FILTERS.
5. FOR ALL BLOWER COILS IN DWELLING UNITS, PROVIDE FIRESTAT FOR AUTOMATIC SHUTDOWN IN THE EVENT OF FIRE. COORDINATE WITH FIRE ALARM DESIGNER.

MARK	MANUFACTURER	MODEL	FAN		ELECTRIC HEAT		ELECTRICAL				
			AIRFLOW	ESP	CIRCUIT	CIRCUIT 2	VOLTAGE	PHASE	MCA	MCA 2	MOCP	MOCP 2
BC-1	TRANE	5TEM4B02AC21	600 CFM	0.50 in-wg	5.8 kW		208 V	1	38.0 A		40.0 A	
BC-2	TRANE	5TEM4B02AC21	800 CFM	0.50 in-wg	5.8 kW		208 V	1	38.0 A		40.0 A	
BC-3	TRANE	5TEM6D04AV31	1,350 CFM	0.50 in-wg	7.2 kW	3.6 kW	208 V	1	49.0 A	22.0 A	50.0 A	25.0 A

HEAT PUMP SCHEDULE

NOTES:
1. REFRIGERANT LINES SHALL BE FIELD FABRICATED. COORDINATE LINE SIZING REQUIREMENTS WITH EQUIPMENT MANUFACTURER FOR LENGTH.
2. PROVIED WITH R454B REFRIGERANT.
3. INSTALL REFRIGERANT PIPING IN ACCORDANCE TO ASHRAE STANDARD 15.

MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY	COOLING						HEATING				ELECTRICAL			
				EDB	EDB	EWB	NET SENSIBLE	NET TOTAL	SEER2	OA EDB	EDB	NET TOTAL	HSPF2	PHASE	MCA	MOCP	VOLTAGE
HP-1	TRANE	5TWR4018	1.5 ton	105 °F	75 °F	63 °F	12,033 Btu/h	16,004 Btu/h	14.3	47 °F	70 °F	18,300 Btu/h	7.5	1	12.0 A	20.0 A	208 V
HP-2	TRANE	5TWR4024	2.0 ton	105 °F	75 °F	63 °F	15,136 Btu/h	19,805 Btu/h	14.3	47 °F	70 °F	22,400 Btu/h	7.5	1	13.0 A	20.0 A	208 V
HP-3	TRANE	5TWR4042	3.5 ton	105 °F	75 °F	63 °F	25,597 Btu/h	33,772 Btu/h	14.3	47 °F	70 °F	39,000 Btu/h	7.5	1	24.0 A	40.0 A	208 V

MINI-SPLIT HEAT PUMP OUTDOOR UNIT SCHEDULE

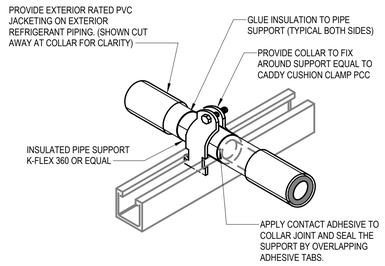
NOTES:
1. PROVIDE REFRIGERANT PIPING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL FIELD INSTALLED LENGTH AND ROUTING.
2. INSTALL REFRIGERANT PIPING IN ACCORDANCE TO ASHRAE STANDARD 15.
3. PROVIDE WITH R454B REFRIGERANT.
4. PROVIDE WITH HAIL GUARDS.

MARK	MANUFACTURER	MODEL	TYPE	NOMINAL CAPACITY	V/Ph	MCA	MOCP
OU-1	MITSUBISHI	MXZ-2D20NLHZ	MULTI-ZONE HEAT PUMP	1.50 ton	208 V/1	21.7 A	30.0 A
OU-2	MITSUBISHI	MXZ-2D20NLHZ	MULTI-ZONE HEAT PUMP	1.50 ton	208 V/1	21.7 A	30.0 A
OU-3	MITSUBISHI	SUZ-AA12NL	HEAT PUMP	1.00 ton	208 V/1	14.0 A	15.0 A

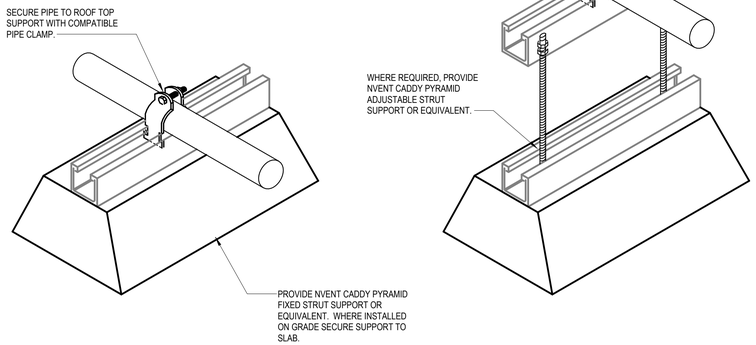
MINI-SPLIT HEAT PUMP INDOOR UNIT SCHEDULE

NOTES:
1. INDOOR UINTS ARE POWERED FROM OUTDOOR UNIT. PROVIDE ALL REQUIRED INTERCONNECTED CABLING PER MANUFACTURER'S INSTRUCTIONS.
2. WHERE POSSIBLE, CONCEAL REFRIGERANT PIPINNG, CONDENSATE PIPING AND ELECTRICAL IN WALLS AND ABOVE CEILINGS. WHEN NOT POSSIBLE, UTILIZE LINE-HIDE KIT TO CONCEAL REFRIGERANT PIPING AND CONDENSATE PIPING BELOW CEILING.

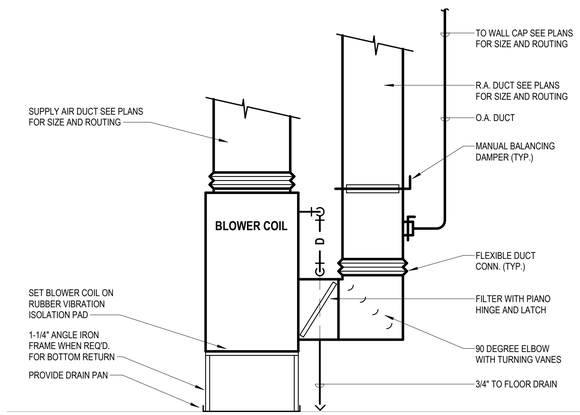
MARK	MANUFACTURER	MODEL	TYPE	SENSIBLE COOLING	HEATING CAPACITY
IU-1A	MITSUBISHI	MLZ-KX09NL	Ceiling Cassette	9,000 Btu/h	12,000 Btu/h
IU-1B	MITSUBISHI	MLZ-KX09NL	Ceiling Cassette	9,000 Btu/h	12,000 Btu/h
IU-2A	MITSUBISHI	MLZ-KX09NL	Ceiling Cassette	9,000 Btu/h	12,000 Btu/h
IU-2B	MITSUBISHI	MLZ-KX09NL	Ceiling Cassette	9,000 Btu/h	12,000 Btu/h
IU-3	MITSUBISHI	MSZ-EX12NLW	Wall Mounted Unit	12,000 Btu/h	15,000 Btu/h



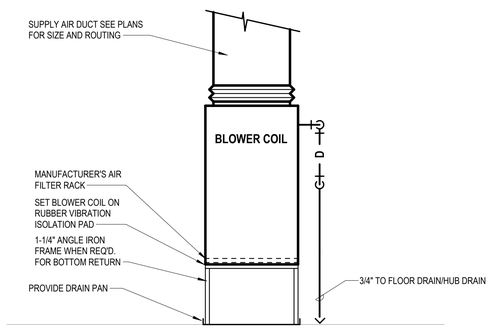
4 EXTERIOR REFRIGRANT PIPING INSULATION DETAIL
NO SCALE



3 EXTERIOR PIPING SUPPORT DETAIL
NO SCALE



2 BLOWER COIL DETAIL
NO SCALE



1 APARTMENT BLOWER COIL DETAIL
NO SCALE

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NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

RYAN PATRICK LUTZENBERGER 24155 KANSAS PROFESSIONAL ENGINEER
2026.04.22 14:29:47-05'00'

REVISIONS:

DATE: 04/21/2026
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Electrical Abbreviations

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

Electrical Symbol Legend

Lighting Symbols

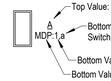
- Lighting Fixtures, Typical, Rectangular (Various Symbols)
- Lighting Fixtures, Typical, Round (Various Symbols)
  Center dot indicates pendant.
  Chevron indicates wall wash.
- Wall-mounted fixtures, Typical (Various Symbols)
- Strip Fixture
- Directional Light, Track Light, Flood Light
- Linear Light, Tape Light
- Emergency Lighting Unit, Ceiling-Mounted, Integral Battery
- Emergency Lighting Unit, Ceiling-Mounted, Remote Battery
- Emergency Lighting Unit, Wall-Mounted, Integral Battery
- Emergency Lighting Unit, Wall-Mounted, Remote Battery
- Exit Light, Ceiling-Mounted.
  Shading and arrows indicate faces and directional chevrons.
- Exit Light, Wall-Mounted.
  Shading and arrows indicate faces and directional chevrons.
- Exit/ELU Combo
- Pole/Area Lights
- Post-Top Area Light
- Bollard Light
- Hatch indicates light on an emergency or life safety circuit.
- Single-Pole Switch
- Two-Pole Switch
- Three-Pole Switch

Switch Modifiers:

3: 3-Way	OS: Occupancy Sensor
4: 4-Way	VS: Vacancy Sensor
K: Keyed	CT: Above-Counter
D: Dimming	LV: Low-Voltage
T: Timer	M: Motor-Rated

- Lighting Contactor
- LCP — Lighting Control Panel
- OS — Occupancy Sensor
- DL — Daylight Harvesting Sensor

Lighting Tags



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

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

Miscellaneous

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

Power Symbols

	Wall	Ceiling	Floor
Simplex Receptacle			
Duplex Receptacle			
Quadruplex Receptacle			
Special Receptacle, Type as Indicated			

Receptacle Modifiers:
- ##": Height AFF(to center)
- CT: Device Mounted Above Counter Top
- IG: Isolated Ground
- H: Device Mounted Horizontally
- WP: Weatherproof In-Use Cover

- Half shading indicates split (typically switched)
- Outside shading indicates tamperproof device
- Center shading indicates GFI type
- Full shading indicates tamperproof GFI type
- Multioutlet Assembly
  Filled squares indicate 120V outlet
  Open squares indicate with USB
- Cord Reel, Device Varies
- Drop Cord, Device Varies
- J — Junction Box
- F1 — Floor Box, see schedule for type
- Emergency Power Off
- DO — Door Opener Push Plate
- M — Power Meter
- Safety Switch, Fused
- Safety Switch, Unfused
- Motor Starter
- Combination Starter/Disconnect
- Contactor

Power Device and Equipment Tags

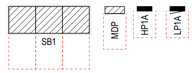
LP1A:1 — Electrical DeviceTags: Uppercase letter(s) indicates Panel ID and circuit number. Lowercase letter indicates designation of controlling switch (where applicable).

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

Wiring

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

Power Distribution Equipment



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

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

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

Telecom Symbols

	Wall	Ceiling	Floor
Data Outlet			
Telephone Outlet			
Data/Telephone Outlet			

Outlet Modifiers:
- ##": Height AFF (to center)
- CT: Mounted Above Counter Top

- Wireless Access Point
- TV — TV Outlet

Fire Alarm Symbols

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

Security Symbols

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

GENERAL ELECTRICAL NOTES

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

MOUNTING HEIGHT REQUIREMENTS:

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

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

GENERAL LIGHTING NOTES

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

GENERAL TELECOMMUNICATIONS NOTES

A. PROVIDE THE FOLLOWING RACEWAY ROUGH-IN FOR TELECOMMUNICATIONS OUTLET TYPES INDICATED.
   - WALL PHONE OUTLET: 2"x4"x2-1/8" DEEP DEVICE BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
   - PHONE/DATA OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 1-GANG DEVICE RING AND 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
   - TV OUTLET: 4-11/16" SQUARE x 3-1/4" DEEP BOX (RACO #260 OR EQUAL) WITH 2-GANG DEVICE RING AND (1) 2" CONDUIT TO ABOVE ACCESSIBLE CEILING.
B. PROVIDE NYLON BUSHINGS FOR ALL CONDUIT ENDS NOT CONNECTED TO A BOX OR FITTING TO PROTECT CABLING FROM DAMAGE.
C. CONDUITS FROM EACH OUTLET SHALL BE STUBBED 2" ABOVE THE FINISHED CEILINGS IN AREAS WITH ACCESSIBLE TILES. IN AREAS WITH OPEN CEILINGS, STUB CONDUIT INTO STRUCTURAL JOIST SPACE.
D. PROVIDE BLANK, STAINLESS STEEL COVER PLATES FOR ALL OUTLETS NOT ACTIVATED BY OWNER.
E. PROVIDE SUITABLE PULL STRING IN ALL CONDUITS.
F. ALL TELECOMMUNICATIONS AND A/V CABLING, JACKS, CONNECTORS, TERMINATIONS, EQUIPMENT AND TESTING SHALL BE PROVIDED BY OWNER.

GENERAL FIRE ALARM NOTES

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

GENERAL ELECTRICAL DEMOLITION NOTES

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

Electrical Sheet List

E-0.1	ELECTRICAL TITLE SHEET
EP1.1	FIRST FLOOR ELECTRICAL PLAN
EP1.2	SECOND FLOOR ELECTRICAL PLAN
EP1.3	THIRD FLOOR ELECTRICAL PLAN
EP1.4	FOURTH FLOOR ELECTRICAL PLAN
EC1.1	FIRST FLOOR SPECIAL SYSTEMS PLAN
EC1.2	SECOND FLOOR SPECIAL SYSTEMS PLAN
EC1.3	THIRD FLOOR SPECIAL SYSTEMS PLAN
EC1.4	FOURTH FLOOR SPECIAL SYSTEMS PLAN
E-4.1	ENLARGED ELECTRICAL PLANS
E-4.2	ENLARGED ELECTRICAL PLANS
E-6.1	HOUSE SERVICE ONE-LINE DIAGRAM
E-6.2	DWELLING UNIT ONE-LINE DIAGRAM
E-6.3	ELECTRICAL SERVICE ELEVATION
E-6.4	HOUSE PANEL SCHEDULES
E-6.5	DWELLING UNIT PANEL SCHEDULES
E-6.6	ELECTRICAL SCHEDULES AND DETAILS

GENERAL POWER NOTES

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

GENERAL ELECTRICAL REMODEL NOTES

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

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

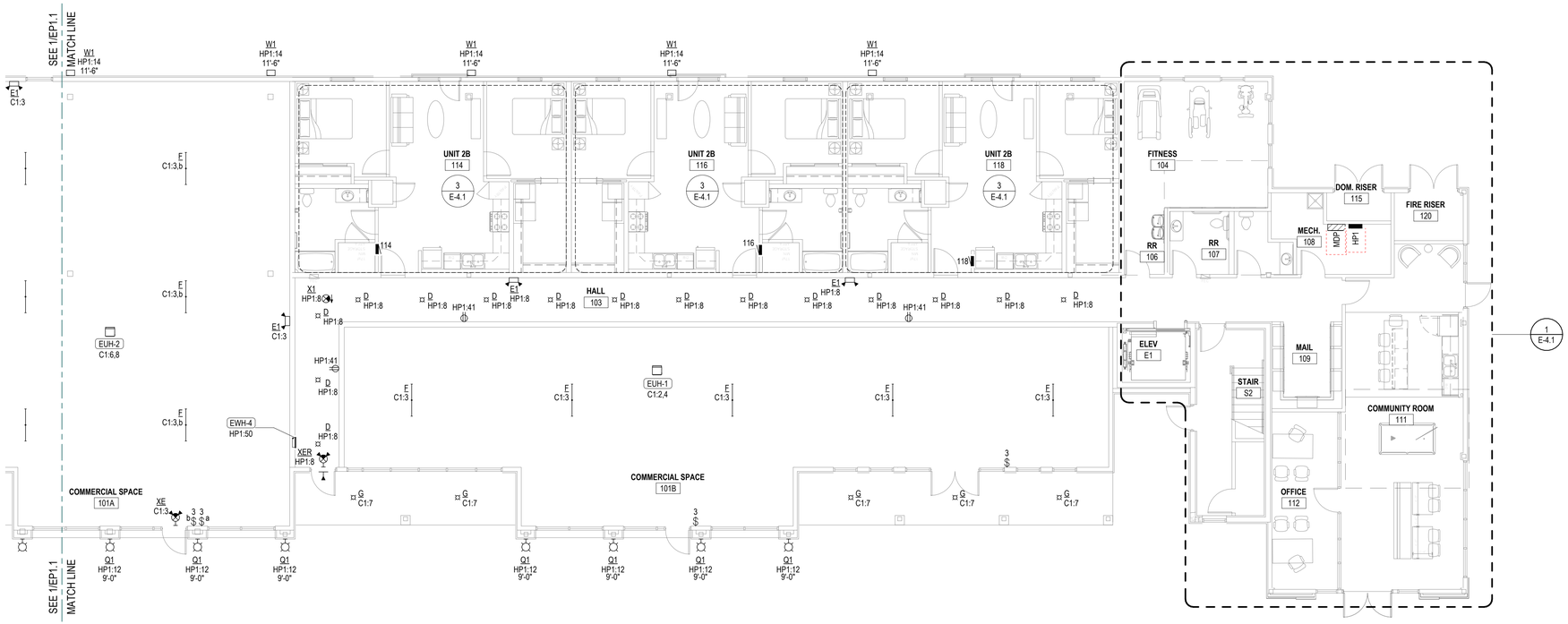
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REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
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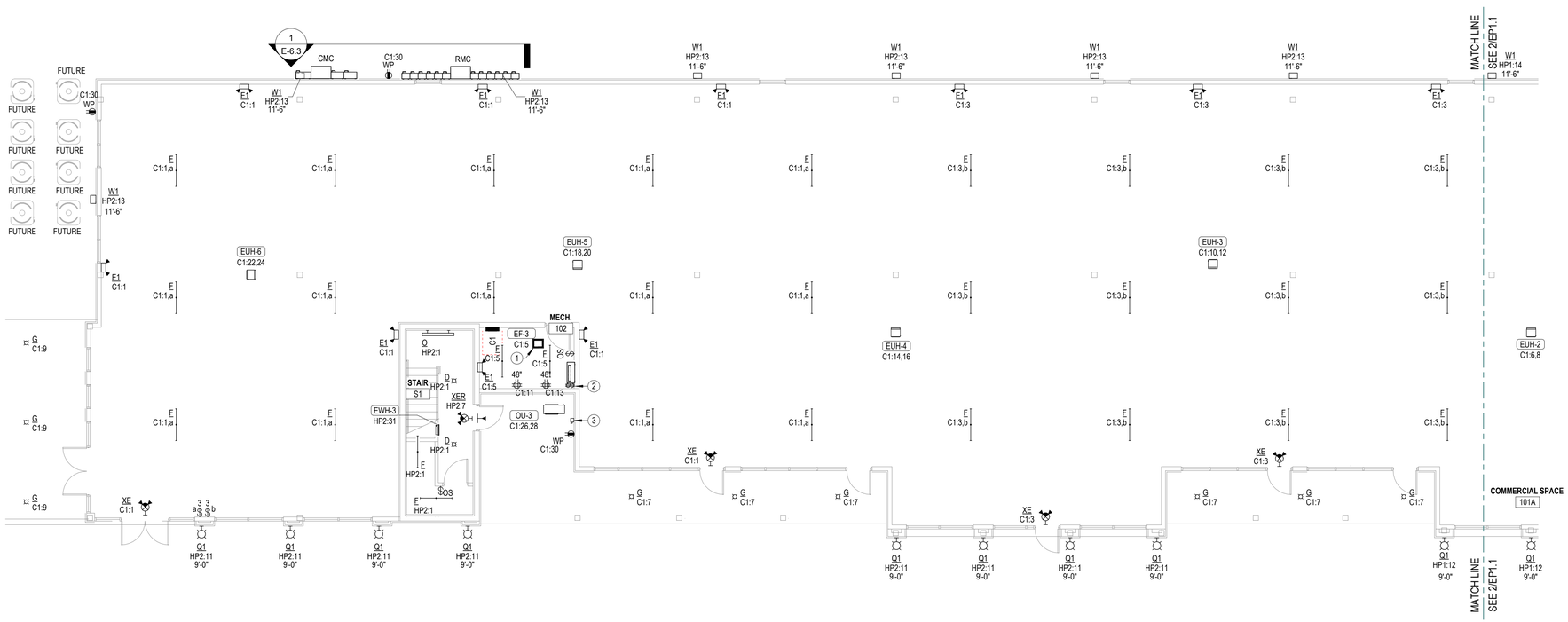
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2 FIRST FLOOR-ELECTRICAL PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 FIRST FLOOR-ELECTRICAL PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

ARCH FLASH STUDY AND LABELING

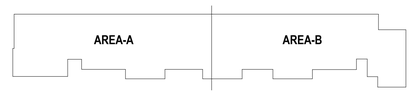
1 PROVIDE A COMPLETE ARC FLASH HAZARD ANALYSIS FOR THE ELECTRICAL DISTRIBUTION SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, NFPA 70E, AND IEEE 1584, UTILIZING AVAILABLE FAULT CURRENT AND PROTECTIVE DEVICE CHARACTERISTICS.
ANALYSIS SHALL INCLUDE, BUT NOT BE LIMITED TO, SHORT CIRCUIT STUDY, PROTECTIVE DEVICE COORDINATION STUDY, AND ARC FLASH INCIDENT ENERGY CALCULATIONS.
SUBMIT STUDY RESULTS FOR REVIEW PRIOR TO INSTALLATION OR ENERGIZATION OF EQUIPMENT.

PROVIDE FIELD LABELING OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BY NEC 2023, INCLUDING BUT NOT LIMITED TO METER CENTERS, PANELBOARDS, AND ANY OTHER EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED.

ARC FLASH LABELS SHALL INCLUDE NOMINAL SYSTEM VOLTAGE, AVAILABLE INCIDENT ENERGY OR ARC FLASH PPE CATEGORY, ARC FLASH BOUNDARY, AND MINIMUM REQUIRED PPE.
LABELS SHALL BE FIELD VERIFIED FOR ACCURACY BASED ON FINAL INSTALLED CONDITIONS AND SHALL BE INSTALLED PRIOR TO ENERGIZATION.
COORDINATE FINAL SETTINGS OF PROTECTIVE DEVICES WITH ARC FLASH STUDY RESULTS TO MINIMIZE INCIDENT ENERGY LEVELS WHERE FEASIBLE.

NOTES BY SYMBOL

1 CONNECT EXHAUST FAN FOR CONTINUOUS OPERATION.
2 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. PROVIDE (3) #12, #12G, 1/2"C BETWEEN ASSOCIATED OUTDOOR AND INDOOR A/C UNITS.
3 PROVIDE 30A/2-POLE, NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE FINAL CONNECTION TO EQUIPMENT IN LFMC RACEWAY. MOUNT TO UNISTRUT FRAME. TYPICAL UNLESS NOTED OTHERWISE.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

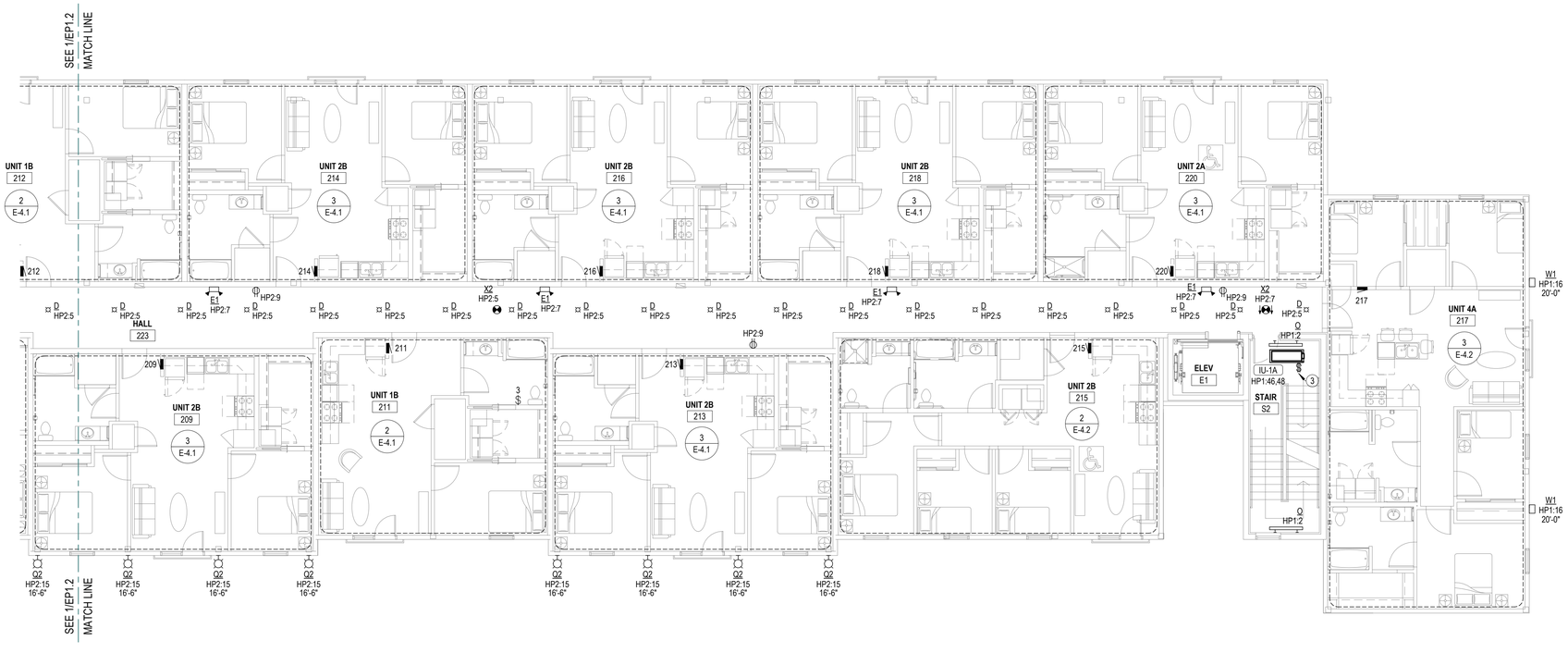
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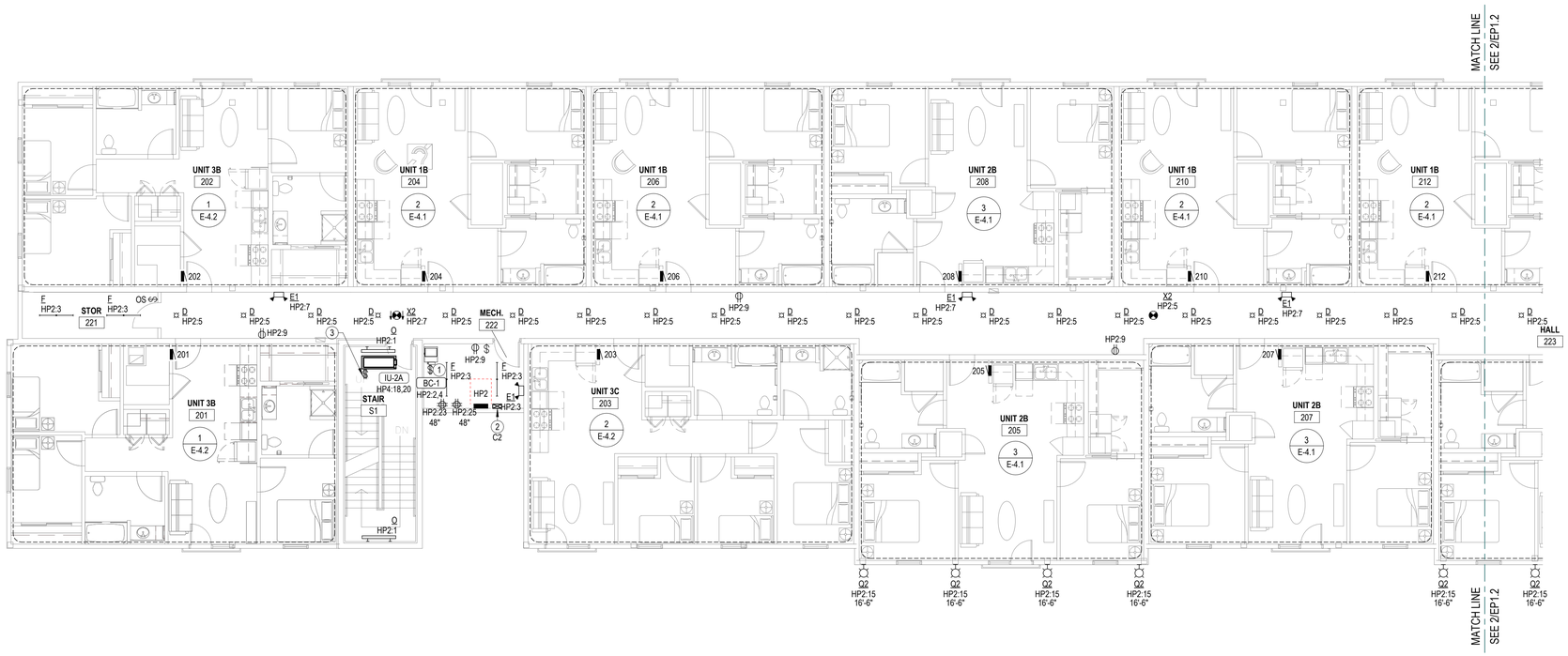
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2 SECOND FLOOR-ELECTRICAL PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 SECOND FLOOR-ELECTRICAL PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

ARCH FLASH STUDY AND LABELING

1 PROVIDE A COMPLETE ARC FLASH HAZARD ANALYSIS FOR THE ELECTRICAL DISTRIBUTION SYSTEM IN ACCORDANCE WITH SPECIFICATIONS, NFPA 70E, AND IEEE 1584, UTILIZING AVAILABLE FAULT CURRENT AND PROTECTIVE DEVICE CHARACTERISTICS.
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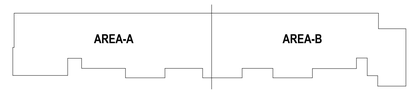
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COORDINATE FINAL SETTINGS OF PROTECTIVE DEVICES WITH ARC FLASH STUDY RESULTS TO MINIMIZE INCIDENT ENERGY LEVELS WHERE FEASIBLE.

NOTES BY SYMBOL

1 PROVIDE 40A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7842D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.

2 ROUTE CIRCUIT THROUGH CONTACTOR FOR PHOTOCELL CONTROL. SEE DETAIL 4:E-6.6 FOR MORE INFORMATION.

3 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. PROVIDE (3) #12, #12G, 1/2"C BETWEEN ASSOCIATED OUTDOOR AND INDOOR A/C UNITS.



KEY PLAN

NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

PATRICK LEE LICENSED PROFESSIONAL ENGINEER 24155 KANSAS

2026.04.22 14:30:16-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

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2 THIRD FLOOR-ELECTRICAL PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'

1 THIRD FLOOR-ELECTRICAL PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

ARCH FLASH STUDY AND LABELING

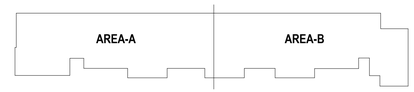
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NOTES BY SYMBOL

1 PROVIDE 40A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7842D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.



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THE RESERVES AT MEADOWS 25
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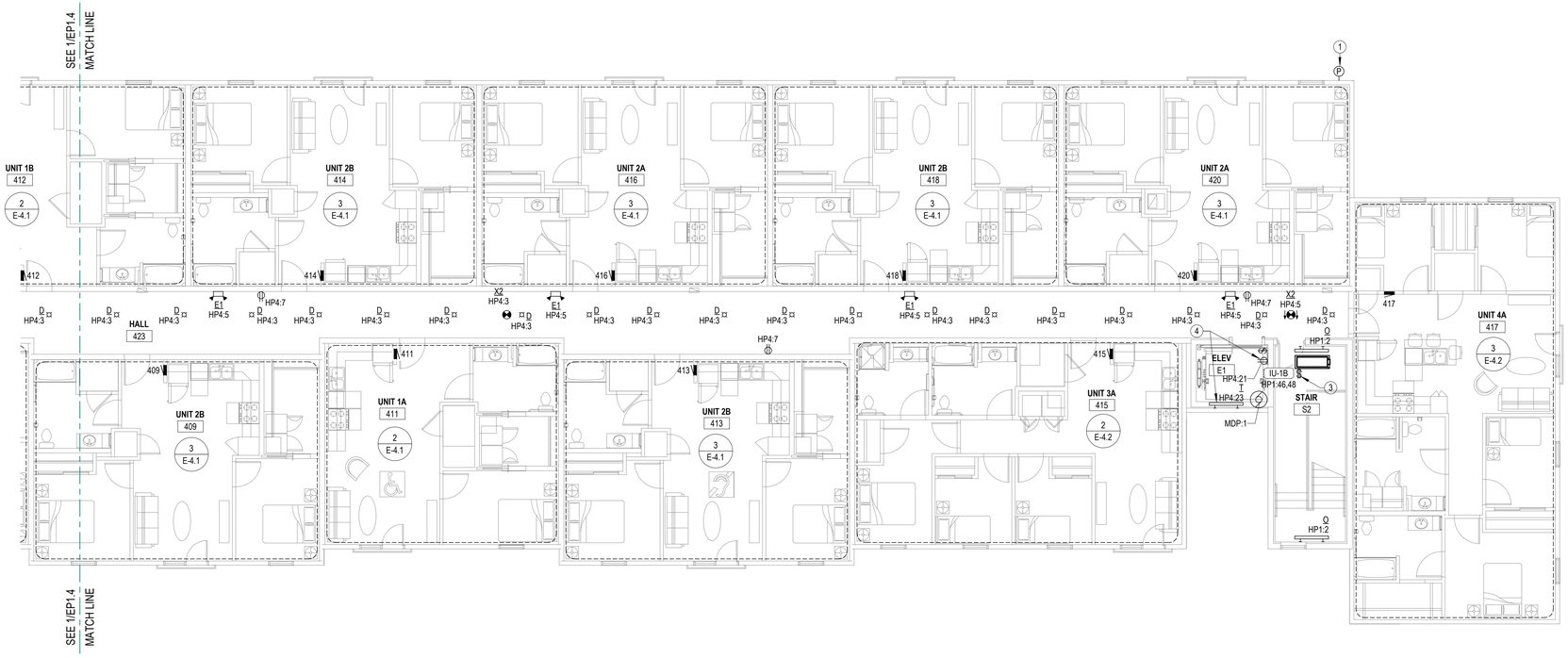
PATRICK LEE TYCENSKI 24155 KANSAS PROFESSIONAL ENGINEER
2026.04.22 14:30:27-05'00'

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DATE: 04/21/2026
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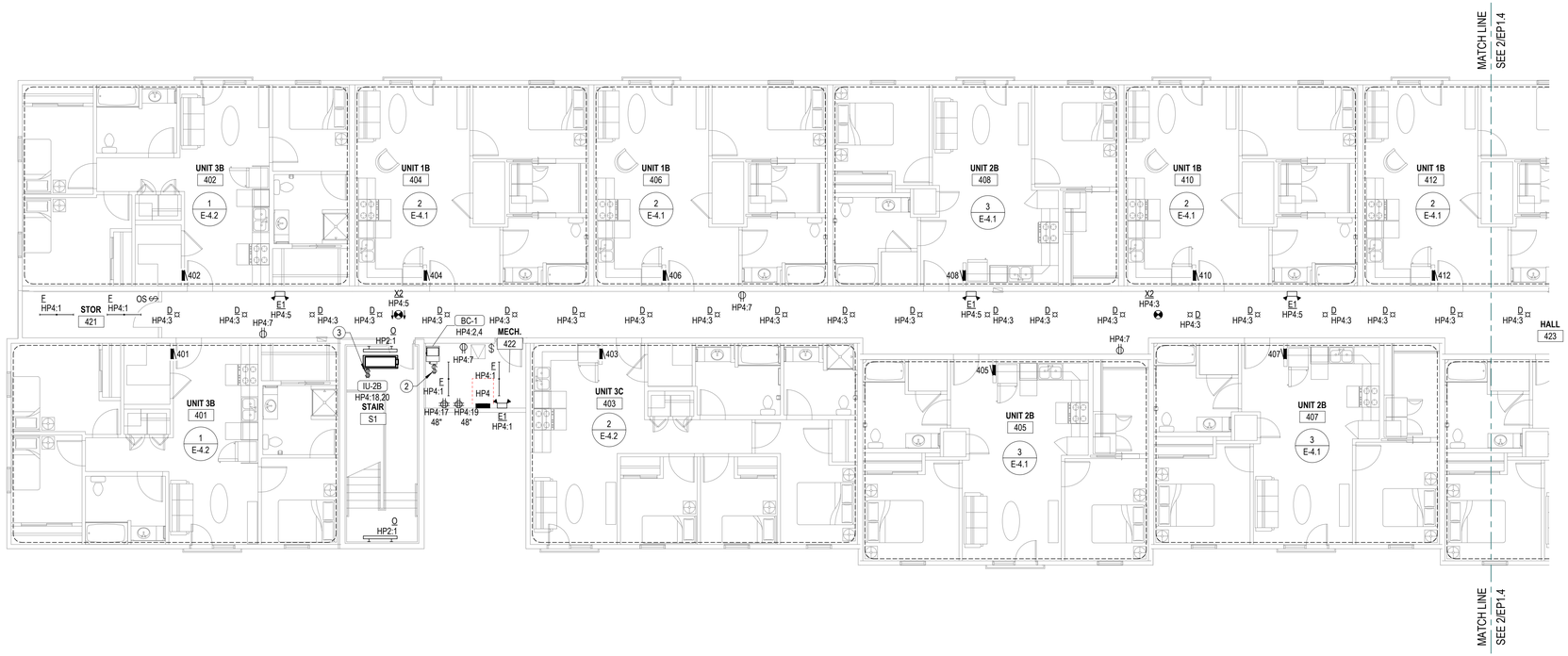
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2 FOURTH FLOOR-ELECTRICAL PLAN-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 FOURTH FLOOR-ELECTRICAL PLAN-AREA A

1/8" = 1'-0"

0 4' 8' 16'

ARCH FLASH STUDY AND LABELING

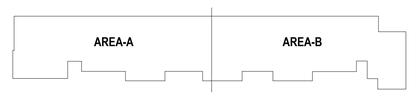
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NOTES BY SYMBOL

1 PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTS SEE DETAIL 4:E-6.6 FOR MORE INFORMATION.
2 PROVIDE 40A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7842D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
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4 INSTALL RECEPTACLE AND LIGHT FIXTURE ON WALL OF ELEVATOR HOIST WAY. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER.



KEY PLAN

NO SCALE

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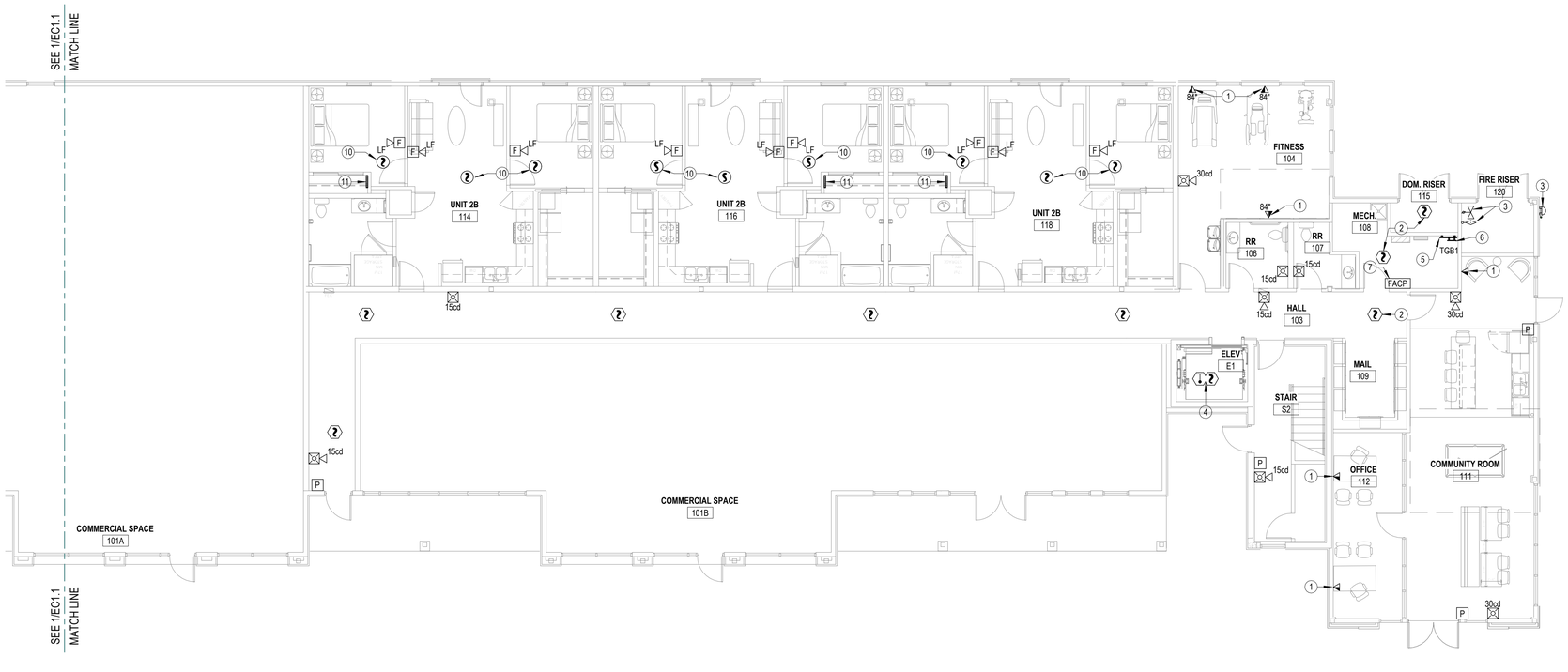
ADAM PATRICK LINN
24155
KANSAS
PROFESSIONAL ENGINEER
2026.04.22 14:30:36-05'00'

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DATE: 04/21/2026
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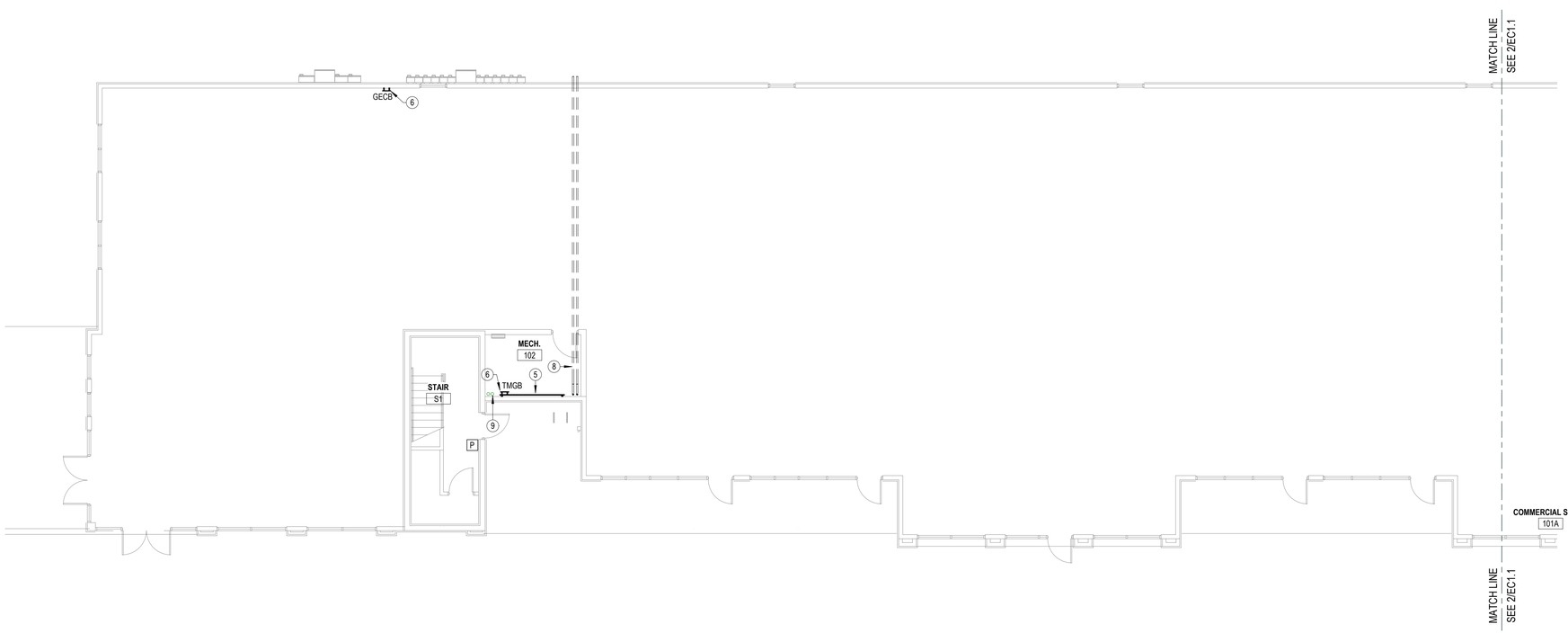
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2 FIRST FLOOR-SPECIAL SYSTEMS-AREA B

1/8" = 1'-0"

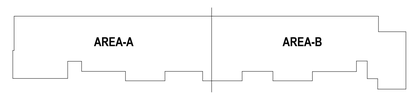


1 FIRST FLOOR-SPECIAL SYSTEMS-AREA A

1/8" = 1'-0"

NOTES BY SYMBOL

1. COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER.
2. FIRE ALARM SMOKE DETECTOR.
3. PROVIDE ADDRESSABLE FIRE ALARM RELAYS AND MONITORING MODULES FOR ALL FIRE SPRINKLER FLOW SWITCHES, TAMPER SWITCHES AND BELL/GONG. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR.
4. SMOKE DETECTOR AND HEAT DETECTOR IN ELEVATOR PIT FOR RECALL AND SHUT-DOWN. SEE DETAIL 3, SHEET E6.6.
5. COVER WALL WITH 3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF, SIZE AS REQUIRED. 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.
6. TELECOMMUNICATIONS GROUND BAR, REFERENCE 2:E6.6 FOR MORE INFORMATION.
7. PROVIDE (2) CAT 5e UTP, NEC TYPE 'CMP' CABLES (SUPERIOR ESSEX #51-241-48 OR EQUAL) IN 3/4" CONDUIT FROM FACP TO MAIN TELECOM TERMINAL BOARD FOR CONNECTION TO FA SYSTEM DACT FOR REMOTE MONITORING.
8. (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. ROUTE BELOW GRADE AND TERMINATE AT UTILITY EASEMENT. PROVIDE PULL STRING IN EACH RACEWAY. SEE SITE PLAN FOR CONTINUATION.
9. (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FOR COMMUNICATIONS CABLING. PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.
10. CEILING MOUNTED SMOKE ALARM IN APARTMENTS OTHER THAN ADA AND HEARING IMPAIRED, TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 dB OUTPUT AT 10'. SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK#SC7018L OR EQUAL
11. TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER. ROUTE DATA CABLES IN 3/4" CONDUIT FROM UNIT TELECOM DISTRIBUTION DEVICE OVERHEAD TO IT ROOM ON THIS FLOOR. WHERE CONDUITS PENETRATE FIRE WALL, PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.



KEY PLAN

NO SCALE

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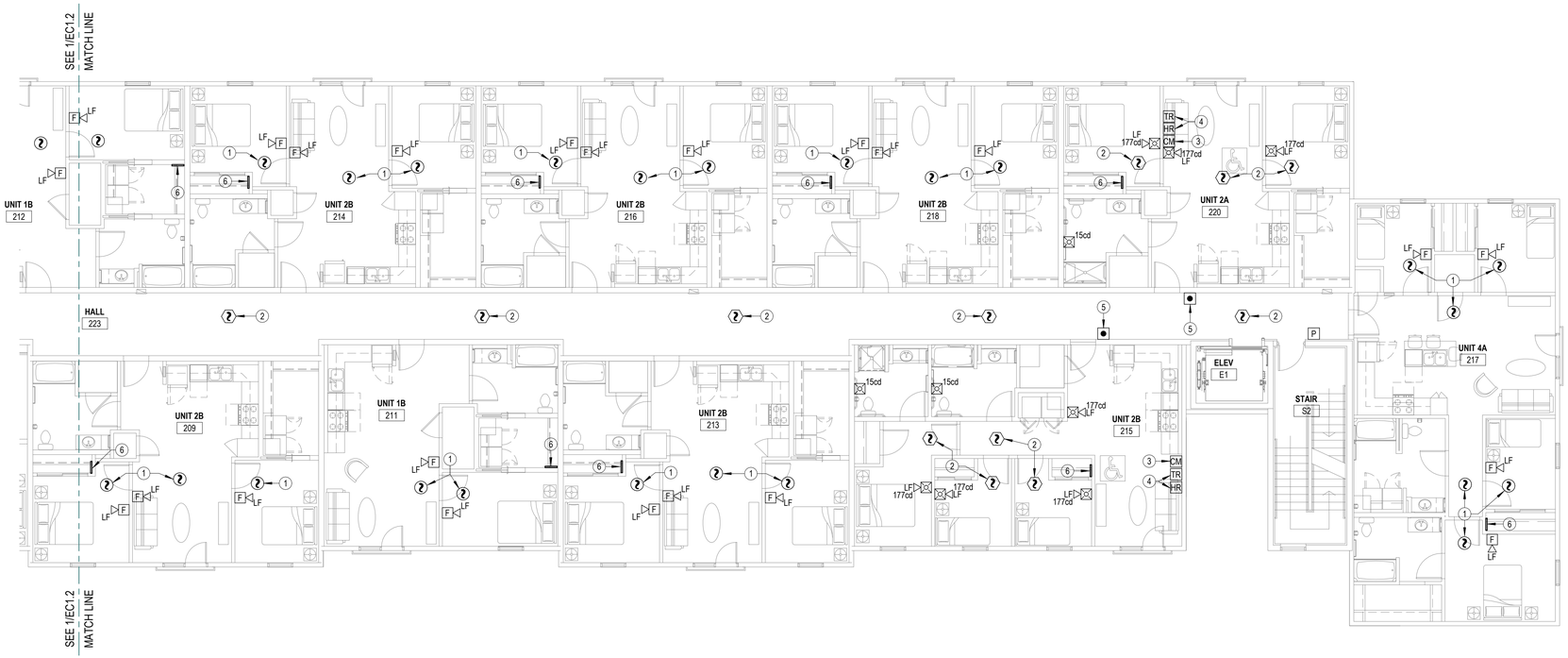
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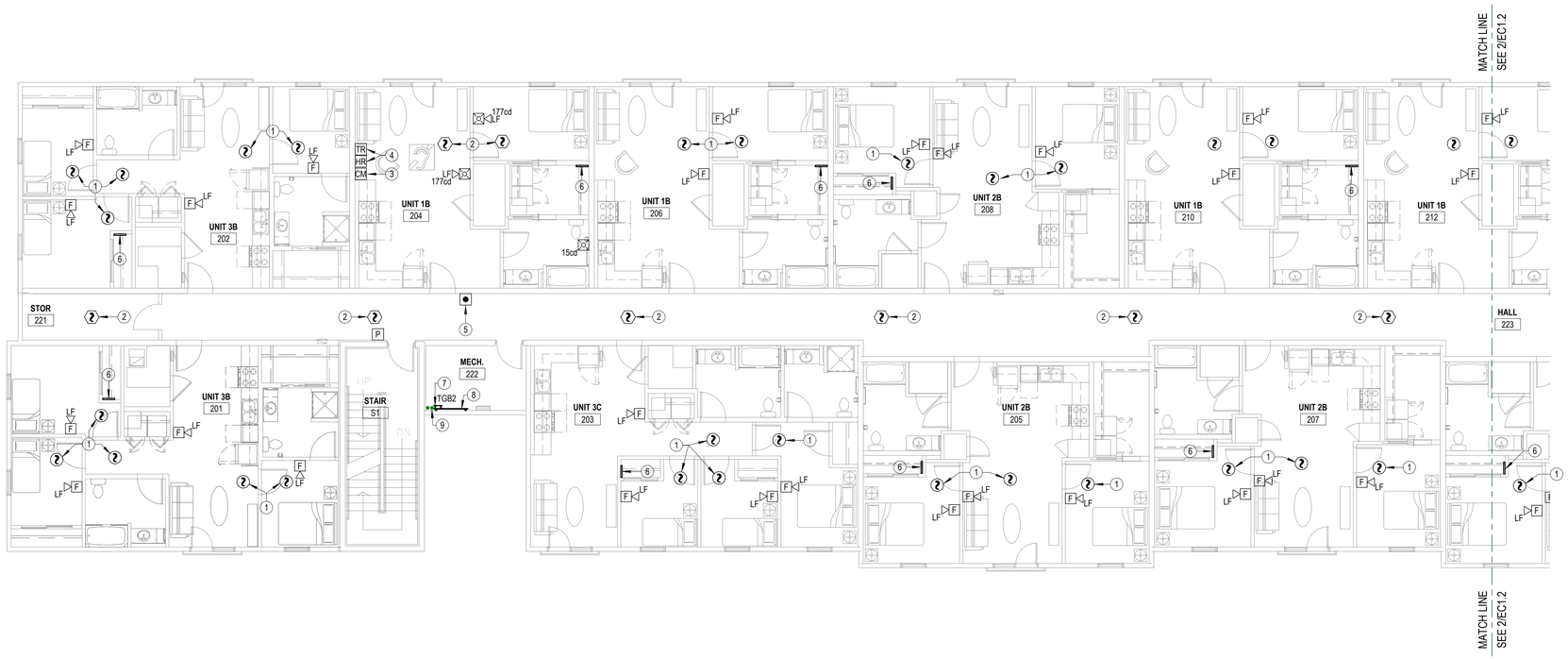
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2 SECOND FLOOR-SPECIAL SYSTEMS-AREA B

1/8" = 1'-0"

0 4' 8' 16'



1 SECOND FLOOR-SPECIAL SYSTEMS-AREA A

1/8" = 1'-0"

0 4' 8' 16'

FIRE ALARM SHEET NOTES

1 ALL DWELLING UNIT BLOWER COILS SHALL BE PROVIDED WITH A FIRESTAT TO SHUT DOWN THE HVAC EQUIPMENT UPON DETECTION OF FIRE CONDITIONS. FIRESTATS SHALL BE INTEGRATED WITH THE BUILDING FIRE ALARM SYSTEM TO ALLOW STATUS MONITORING.

NOTES BY SYMBOL

1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS OTHER THAN ADA AND HEARING IMPAIRED, TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 dB OUTPUT AT 10', SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED, BRK6SC701BL OR EQUAL

2 FIRE ALARM 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 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 2:E6.1. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR"

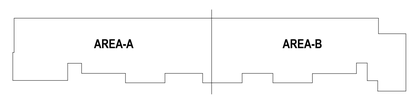
5 PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 2:E6.1

6 TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER. ROUTE DATA CABLES IN 3/4" CONDUIT FROM UNIT TELECOM DISTRIBUTION DEVICE OVERHEAD TO IT ROOM ON THIS FLOOR. WHERE CONDUITS PENETRATE FIRE WALL, PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.

7 TELECOMMUNICATIONS GROUND BAR, REFERENCE 2:E6.6 FOR MORE INFORMATION.

8 COVER WALL WITH 3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF, SIZE AS REQUIRED. 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.

9 (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FOR COMMUNICATIONS CABLING. PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.



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NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

KEVIN PATRICK LUTZ LICENSED 24155 KANSAS PROFESSIONAL ENGINEER

2026.04.22 14:30:56-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

EC1.2

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2 THIRD FLOOR-SPECIAL SYSTEMS-AREA B

1/8" = 1'-0"

0 4' 8' 16'

1 THIRD FLOOR-SPECIAL SYSTEMS-AREA A

1/8" = 1'-0"

0 4' 8' 16'

FIRE ALARM SHEET NOTES

1 ALL DWELLING UNIT BLOWER COILS SHALL BE PROVIDED WITH A FIRESTAT TO SHUT DOWN THE HVAC EQUIPMENT UPON DETECTION OF FIRE CONDITIONS. FIRESTATS SHALL BE INTEGRATED WITH THE BUILDING FIRE ALARM SYSTEM TO ALLOW STATUS MONITORING.

NOTES BY SYMBOL

1 CEILING MOUNTED SMOKE ALARM IN APARTMENTS OTHER THAN ADA AND HEARING IMPAIRED, TO BE 120VAC WITH 9V BATTERY BACKUP, INTERCONNECTED TO OTHERS IN SAME APARTMENT. DEVICE SHALL HAVE PHOTOELECTRIC TYPE SMOKE DETECTOR WITH SOUNDER HORN HAVING AN 85 dB OUTPUT AT 10', SHALL HAVE A SINGLE BUTTON FOR TEST/SILENCE AND LED INDICATOR LIGHTS, AND SHALL BE UL 217 LISTED. BRK#SC701BL OR EQUAL

2 FIRE ALARM 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 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 2:E6.1. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR"

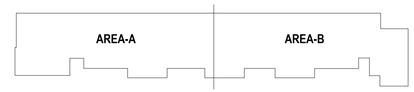
5 PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. SEE DETAIL 2:E6.1

6 TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED BY OWNER. ROUTE DATA CABLES IN 3/4" CONDUIT FROM UNIT TELECOM DISTRIBUTION DEVICE OVERHEAD TO IT ROOM ON THIS FLOOR. WHERE CONDUITS PENETRATE FIRE WALL, PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.

7 TELECOMMUNICATIONS GROUND BAR, REFERENCE 2:E6.6 FOR MORE INFORMATION.

8 COVER WALL WITH 3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF, SIZE AS REQUIRED. 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.

9 (2) 4" EMT CONDUIT SLEEVES THROUGH FLOOR FOR COMMUNICATIONS CABLING. PROVIDE WITH FIRESTOPPING FITTINGS (WIREMOLD #FS4R-RED) AT BOTH ENDS.



KEY PLAN

NO SCALE

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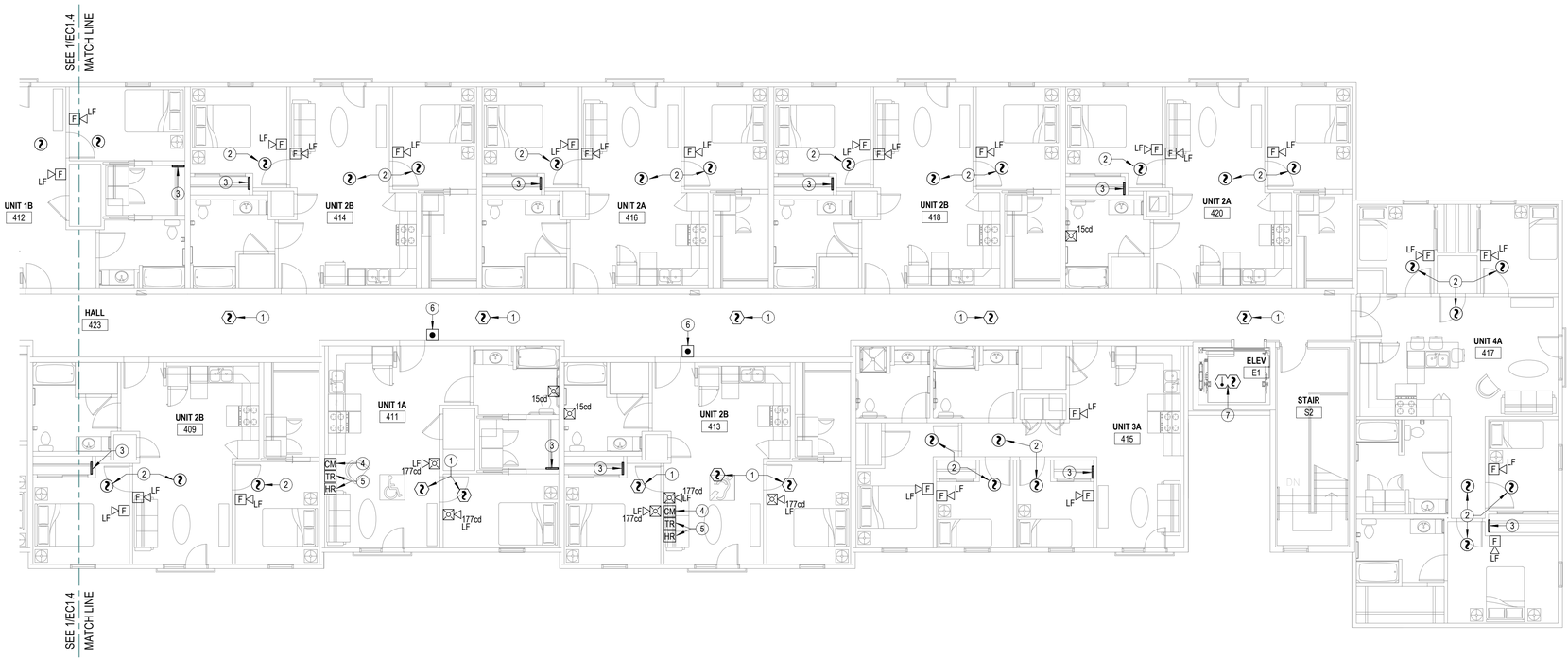
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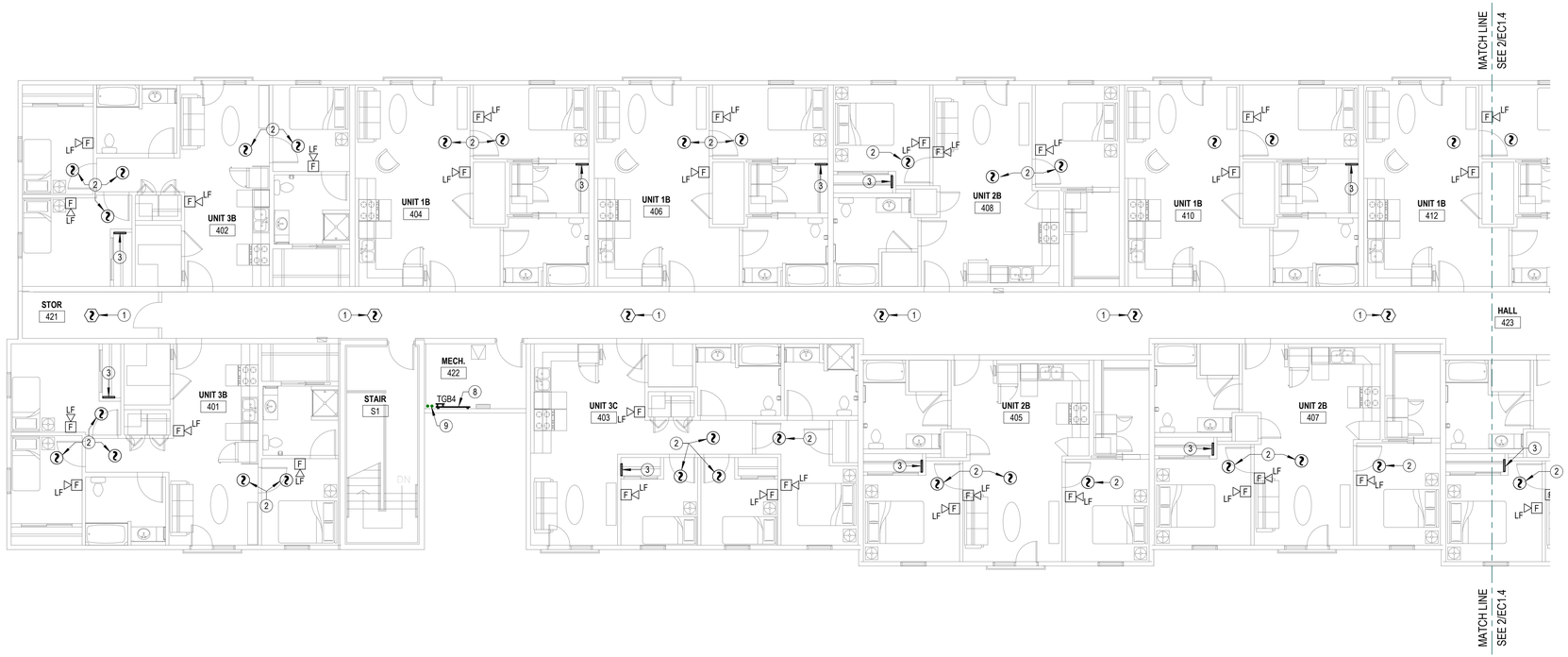
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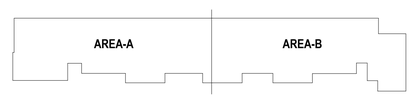
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7 SMOKE DETECTOR AND HEAT DETECTOR AT TOP OF ELEVATOR HOIST WAY FOR RECALL AND SHUT-DOWN. SEE DETAIL 3, SHEET E6.6.

8 COVER WALL WITH 3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF, SIZE AS REQUIRED. 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.

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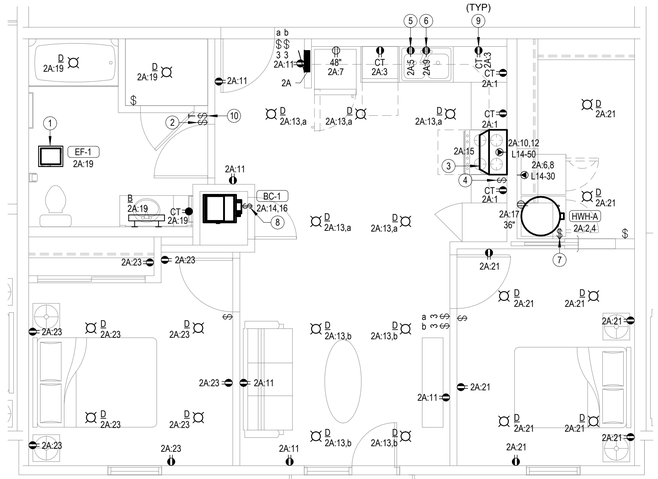
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1 ENLARGED ELECTRICAL PLAN-FIRST FLOOR-CLUBHOUSE

1/4" = 1'-0"

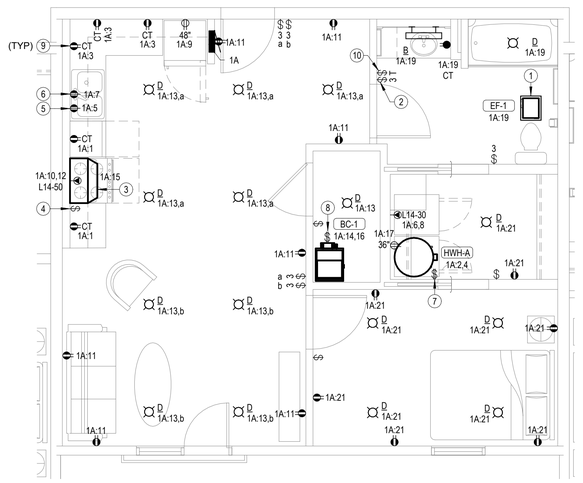
0 2' 4' 8'



3 ENLARGED ELECTRICAL PLAN-2B

1/4" = 1'-0"

0 2' 4' 8'



2 ENLARGED ELECTRICAL PLAN-1B

1/4" = 1'-0"

0 2' 4' 8'

NOTES BY SYMBOL

1. CONNECT EXHAUST FAN/LIGHT PROVIDED BY MECHANICAL CONTRACTOR.
2. SWITCH CLOSEST TO DOOR SHALL CONTROL ALL LIGHTS IN BATHROOM, AND THE OTHER SWITCH SHALL CONTROL THE EXHAUST FAN.
3. 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
4. PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD.
5. PROVIDE RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED.
6. SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
7. PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER. INSTALL SWITCH ADJACENT TO WATER HEATER.
8. PROVIDE 40A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7842D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
9. 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.
10. PROVIDE TIMER SWITCH EQUAL TO AIR CYCLER 'SMART EXHAUST' FOR CONTROL OF EXHAUST FAN. SET SWITCH PER MANUFACTURER'S INSTRUCTION TO OPERATE FAN AS INDICATED BELOW.
    1 BEDROOM: 26 MINUTES PER HOUR
    2 BEDROOM: 35 MINUTES PER HOUR
    3 BEDROOM: 43 MINUTES PER HOUR
    4 BEDROOM: 54 MINUTES PER HOUR
11. PROVIDE UL-LISTED COUNTERTOP RECEPTACLE, INSTALLED FLUSH WITH COUNTERTOP. COORDINATE INSTALLATION WITH COUNTERTOP INSTALLER AND ARCHITECT.
12. INSTALL RECEPTACLE AND LIGHT FIXTURE ON WALL OF ELEVATOR PIT. VERIFY EXACT LOCATION WITH ELEVATOR EQUIPMENT INSTALLER.
13. PROVIDE J-BOX FOR POWER TO ELEVATOR SUMP PUMP CONTROLLER. CONTRACTOR TO ENSURE LENGTH FROM CONTROLLER TO SUMP PUMP IN ELEVATOR PIT DOES NOT EXCEED 50'-0" TO ACCOMMODATE PUMP WIRING. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
14. PROVIDE 30A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7832 OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
15. PROVIDE 50A/2P, SINGLE THROW, MANUAL MOTOR CONTROLLER SNAP SWITCH IN NEMA 1 ENCLOSURE. HUBBELL #HBL7852D OR EQUAL. MAKE FINAL FLEXIBLE CONNECTION TO BLOWER COIL/ELECTRIC HEAT.
16. ROUTE 120V CIRCUIT FOR HOT WATER RECIRCULATION PUMP THROUGH ADJACENT AQUA STAT. PROVIDE 20A/1P SNAP SWITCH ADJACENT TO PUMP AND MAKE FINAL FLEXIBLE CONNECTION. COORDINATE WITH PLUMBING CONTRACTOR.
17. PROVIDE 60A/2-POLE, NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE FINAL CONNECTION TO EQUIPMENT IN LFMC RACEWAY. MOUNT TO UNISTRUT FRAME SUPPORTED FROM EQUIPMENT SUPPORT RAILS.
18. DEDICATED 20 AMP, 120V CIRCUIT FOR FIRE ALARM CONTROL PANEL. VERIFY EXACT LOCATION AND REQUIREMENTS WITH FIRE ALARM CONTRACTOR.
19. ROUTE CIRCUIT THROUGH CONTACTOR FOR PHOTOCELL CONTROL. SEE DETAIL 4:E-6.6 FOR MORE INFORMATION.
20. PROVIDE 30A/2-POLE, NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE FINAL CONNECTION TO EQUIPMENT IN LFMC RACEWAY. MOUNT TO UNISTRUT FRAME. TYPICAL UNLESS NOTED OTHERWISE.
21. 120V POWER FOR FIRE SPRINKLER SYSTEM FLOW SWITCH(ES) AND BELL. PROVIDE #8 CU BONDING JUMBER FROM CIRCUIT EQUIPMENT GROUNDING CONDUCTOR TO METAL SPRINKLER SYSTEM PIPING AT AN ACCESSIBLE LOCATION PER NEC 250.104(B). COORDINATE WORK WITH FIRE SPRINKLER SYSTEM INSTALLER.
22. LIGHT SWITCH SHALL CONTROL LIGHTS AND EXHAUST FAN.
23. CONNECT EXHAUST FAN FOR CONTINUOUS OPERATION.
24. COORDINATE EXACT MOUNTING LOCATION OF DRINKING FOUNTAIN RECEPTACLE WITH PLUMBING CONTRACTOR. WIRE FROM LOAD SIDE OF ADJACENT GFI RECEPTACLE TO PROVIDE GFI PROTECTION FOR DRINKING FOUNTAIN RECEPTACLE.
25. ELEVATOR POWER MODULE SWITCH: 100A/208V/3P SWITCH COMPLETE WITH 80A DUAL ELEMENT, TIME DELAY CLASS 'J' FUSES, 120V CONTROL TRANSFORMER, FIRE ALARM SAFETY INTERFACE RELAY, KEY TEST SWITCH, GREEN PILOT LIGHT, AUXILIARY CONTACTS FOR ELEVATOR RECALL, AND FIRE ALARM VOLTAGE MONITORING RELAY. EATON BUSSMAN #PS-1-T20-R1-K-G-B-F1 OR EQUAL. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER, AND PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER. SEE DETAIL 3:E-6.6. COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ELEVATOR SUPPLIER.
26. 30A DISCONNECT SWITCH, LOCKABLE IN "OFF" POSITION, WITH SOLID NEUTRAL AND (1) 20A DUAL-ELEMENT, TIME DELAY FUSE IN NEMA 1 ENCLOSURE FOR ELEVATOR CAB LIGHTS & EXHAUST. MOUNT AT 6'-0" AFF TO TOP AND LABEL WITH CORRESPONDING ELEVATOR CAR NUMBER AND CIRCUIT NUMBER. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR EQUIPMENT INSTALLER. PROVIDE FINAL ELECTRICAL CONNECTION TO ELEVATOR CONTROLLER.
27. MAKE FINAL CONNECTIONS TO FIRE PUMP AN DALL REQUIRED CONTROLS, VALVES, AND APPURTENANCES PER SEALED FIRE SUPPRESSION SHOP DRAWINGS DESIGNED BY OTHERS.
28. UTILITY METER FOR DEDICATED FIRE PUMP SERVICE. SEE 2:E6.1 FOR MORE INFORMATION.
29. SEE 1:ME1.1 FOR CONTINUATION.

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THE RESERVES AT MEADOWS 25

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GODDARD, KANSAS

RYAN PATRICK LINK
CERTIFICATE NUMBER
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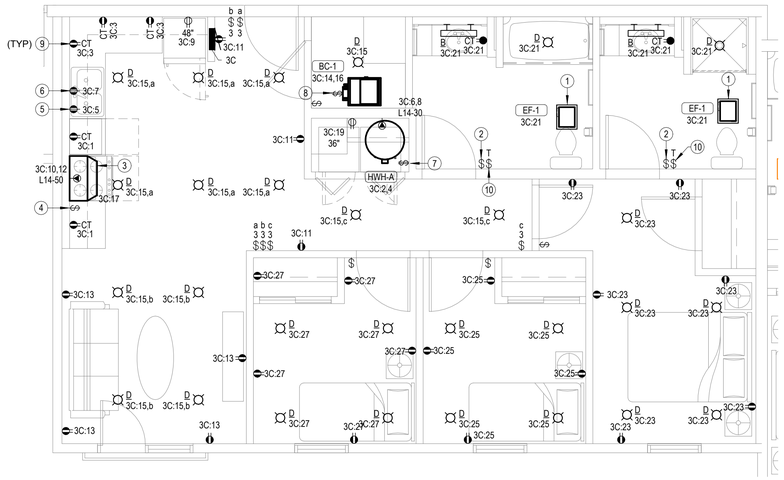
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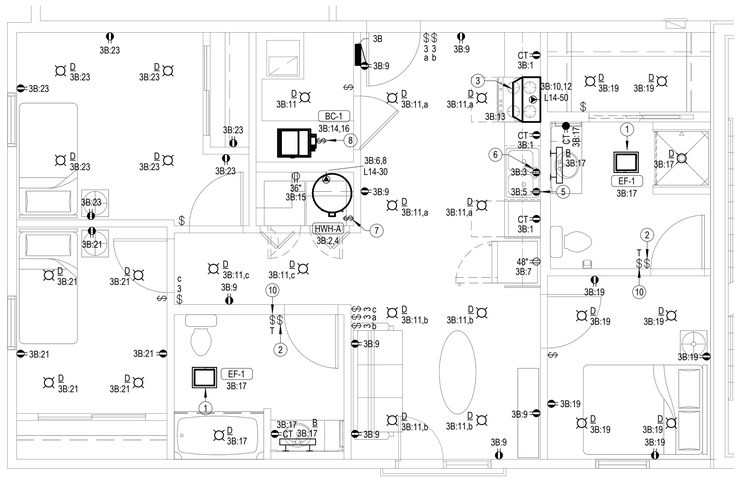
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2 ENLARGED ELECTRICAL PLAN-3C

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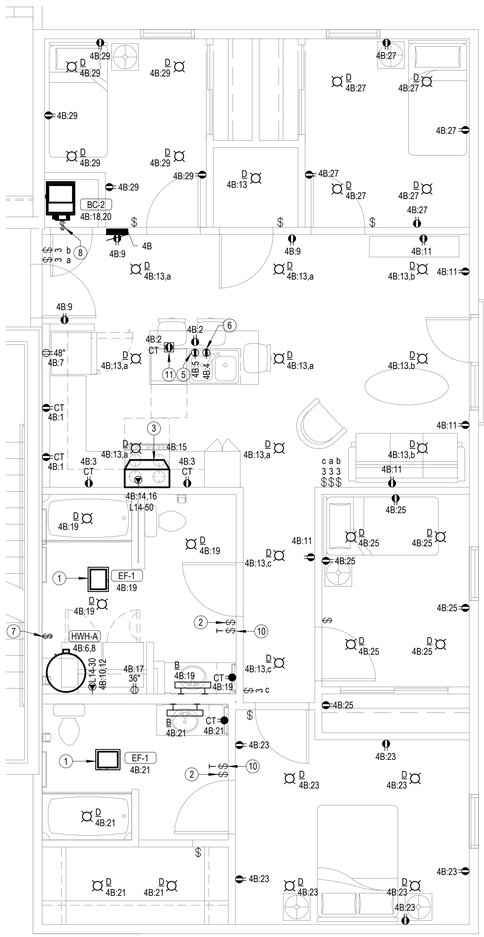
0 2' 4' 8'



1 ENLARGED ELECTRICAL PLAN-3B

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3 ENLARGED ELECTRICAL PLAN-4A

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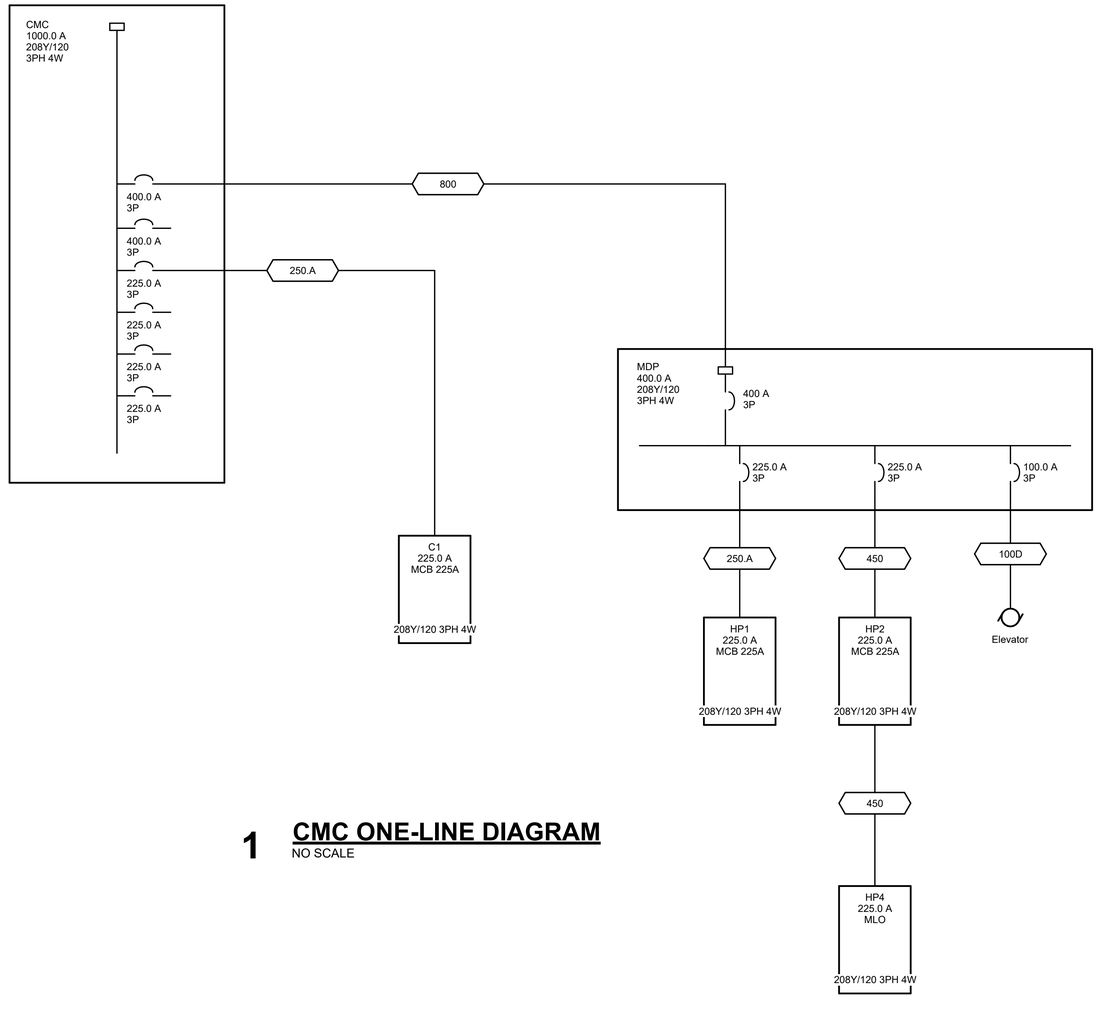
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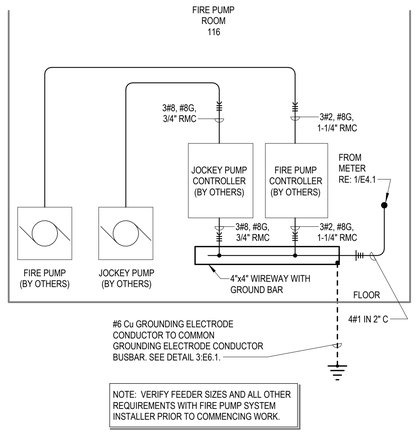
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FEEDER SCHEDULE	
100D	1-1/4"C, 3#1, #8G
250.A	2-1/2"C, 3-250kcmil, 250kcmil N, #3G
450	(2)2-1/2"C, 3-4/0, 4/0N, #1G
800	(3)3"C, 3-300kcmil, 300kcmil N, 1/0G



1 CMC ONE-LINE DIAGRAM
NO SCALE



2 ELECTRICAL RISER DIAGRAM - FIRE PUMP
NO SCALE

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PROFESSIONAL ENGINEER
2026.04.22 14:31:51-05'00'

REVISIONS:

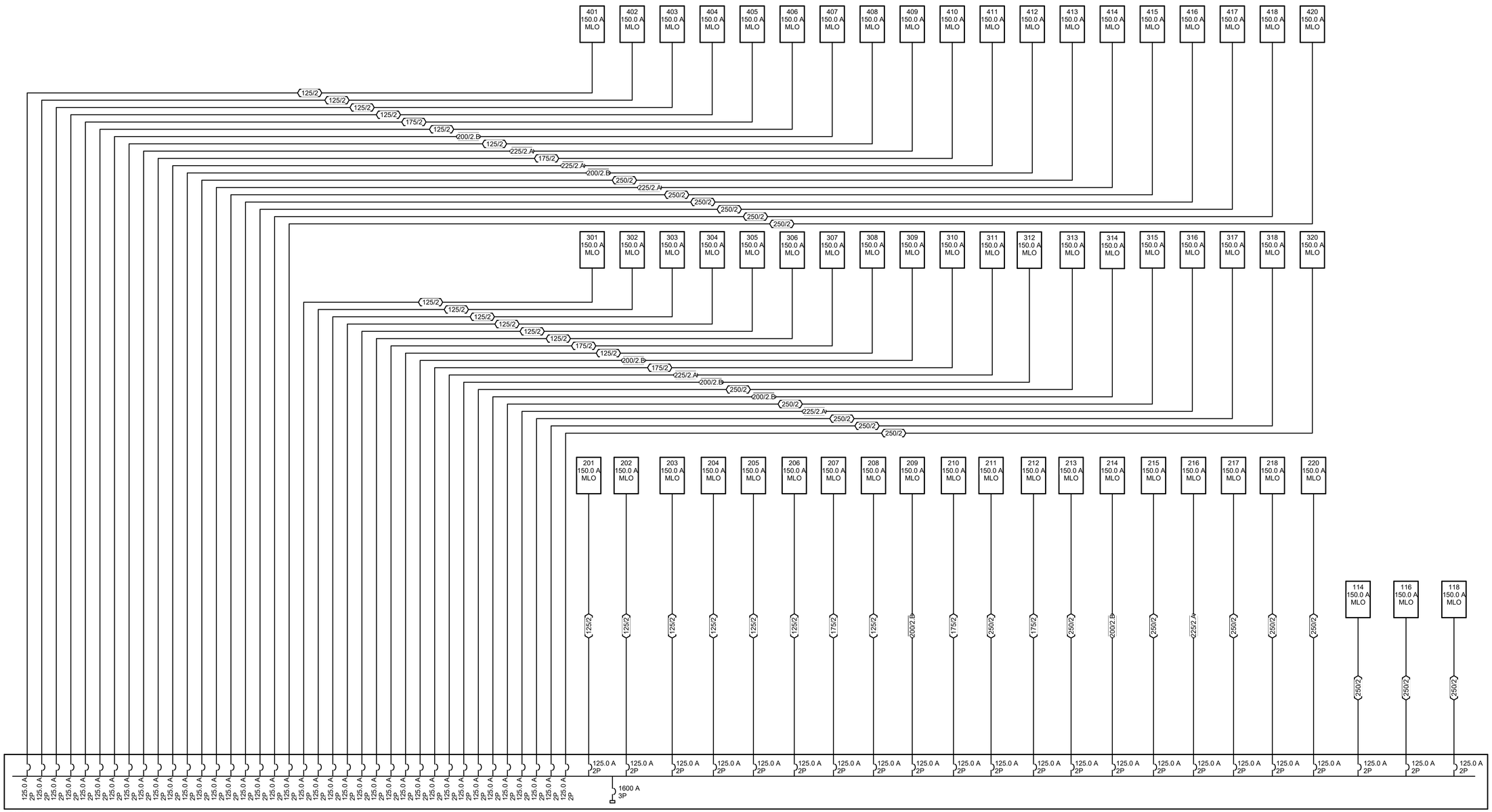
DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

E-6.1

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FEEDER SCHEDULE	
125/2	1-1/2"C, 2-1/0, 1/0N, #6G
175/2	1-1/2"C, 2-2/0, 2/0N, #4G
200/2.B	2"C, 2-3/0, 3/0N, #3G
225/2.A	2"C, 2-4/0, 4/0N, #2G
250/2	2"C, 2-250kcmil, 250kcmil N, #2G

DWELLING UNIT FEEDER SCHEDULE (ALUMINUM)	
SCHEDULED COPPER FEEDER SIZE	EQUIVALENT ALUMINUM FEEDER
2#1, #1N, #8G, 1-1/4"C.	2#2/0, #2/0N, #4G, 2"C.
2#1/0, #1/0N, #6G, 1-1/2"C.	2#3/0, #3/0N, #3G, 2"C.
2#2/0, #2/0N, #4G, 2"C.	2#4/0, #4/0N, #2G, 2"C.
2#3/0, #3/0N, #3G, 2"C.	2#300KCMIL, #300 KCMIL N, #1/0G, 2-1/2"C.
2#4/0, #4/0N, #2G, 2"C.	2#350KCMIL, #350 KCMIL N, #2/0G, 3"C.



1 RMC ONE-LINE DIAGRAM

NO SCALE

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785.587.8042

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316.285.0696

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jgr@jgrarchitects.com

THE RESERVES AT MEADOWS 25

NEW SENIOR LIVING FACILITY

GODDARD, KANSAS

PATRICK LINN 24155 KANSAS PROFESSIONAL ENGINEER

2026.04.22 14:32:02-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

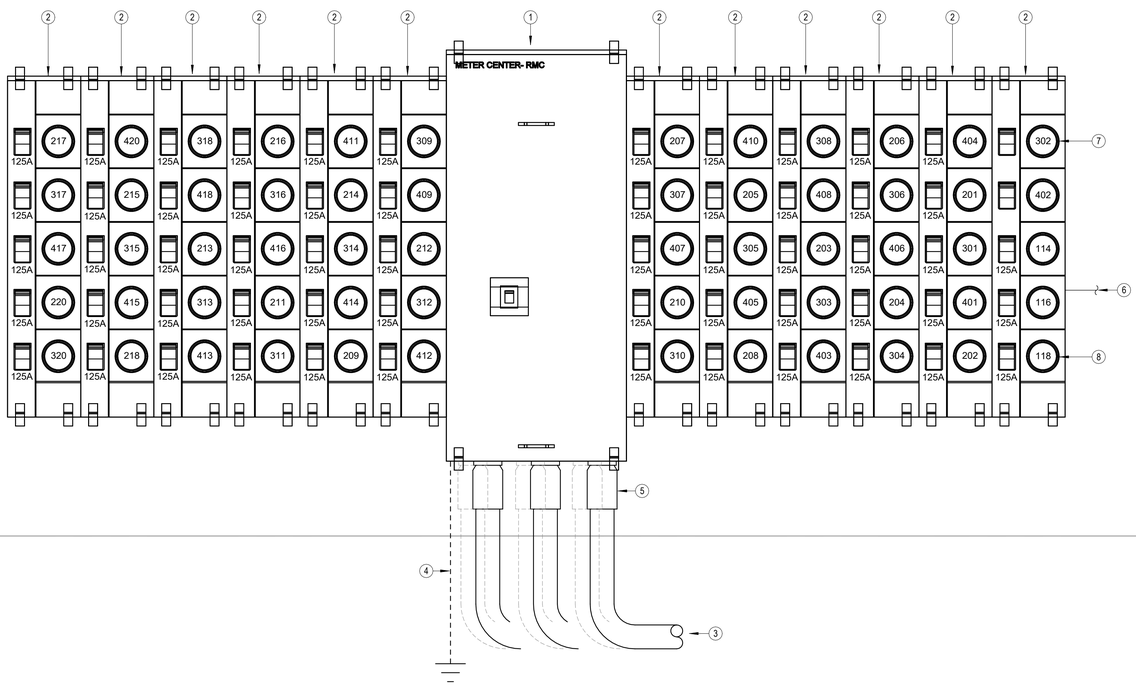
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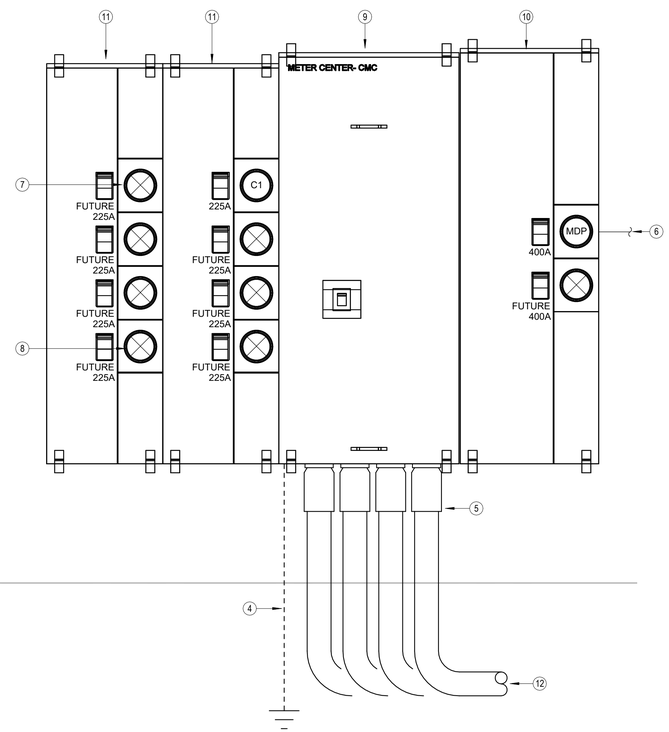
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NOTES:
- Meter Center main circuit breaker shall be 42 kAIC fully rated.
- All conductor sizes are based on copper, U.N.O.
- Entire installation shall comply with NEC.
- Coordinate all responsibilities and requirements with power utility company and pay associated fees.
  Contact Information:
  Evergy
  Ryan McCallister
  ryan.mccallister@evergy.com
  785-730-1526
- 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.
- Provide all necessary blocking and/or steel channel behind meter centers to create a flush/plumb mounting surface and to infill space where existing stone and brick meet.
- 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 1/4" letters, minimum.

NOTES BY SYMBOL

1	RMC: METER CENTER MAIN, 3-PH IN; 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 1600A/3P MAIN BREAKER, 65 KAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE PROTECTION DEVICE. SQUARE D 'EZ METER-PAK' #EZM31600CBU. PROVIDE SIGNAGE AT DISCONNECT SWITCH TO READ 'SERVICE DISCONNECT 1 OF 2'
2	5-SOCKET BRANCH UNIT, 3-PH IN; 1-PH OUT, WITH (5) 125A BRANCH BREAKERS, SQUARE D 'EZ METER-PAK' #EZMH315125. PROVIDE PERMANENT LABEL ON EACH METER SOCKET BREAKER INDICATING THE APARTMENT BEING SERVED.
3	6 SETS: 4#500 KCMIL IN 4" CONDUIT FROM TRANSFORMER TO RMC- PROVIDE ALL TRENCHING AND BACKFILL. COORDINATE EXACT REQUIREMENTS WITH EVERGY. COORDINATE NUMBER OF CONDUITS WITH METER CENTER MANUFACTURER AND PROVIDE TERMINATION BOX IF REQUIRED.
4	GROUNDING ELECTRODE CONDUCTOR TO COMMON GROUNDING ELECTRODE CONDUCTOR BUSBAR. SEE DETAILS ON SHEET E6.1.
5	PROVIDE SCHEDULE 40 PVC SLIP JOINTS.
6	SEE ONE-LINE DIAGRAMS AND SCHEDULES FOR FEEDER SIZES.
7	MAXIMUM HEIGHT TO CENTERLINE OF TOP METER SOCKET SHALL BE 6'-0" AFG.
8	MINIMUM HEIGHT TO CENTERLINE OF TOP METER SOCKET SHALL BE 2'-6" AFG.
9	CMC: METER CENTER MAIN, 3-PH IN; 3-PH OUT, 208/120V-3PH, 4 WIRE WITH 1000A/3P MAIN BREAKER, 65 KAIC RATED, SERVICE ENTRANCE RATED WITH INTEGRAL SURGE PROTECTION DEVICE. SQUARE D 'EZ METER-PAK' #EZM31000CBU. PROVIDE SIGNAGE AT DISCONNECT SWITCH TO READ 'SERVICE DISCONNECT 2 OF 2'
10	2-SOCKET COMMERCIAL BRANCH UNIT, 3PH IN; 3-PH OUT, WITH BRANCH BREAKERS AS INDICATED ON ELEVATION, SQUARE D 'EZ METER-PAK' #EZMK332400. PROVIDE PERMANENT LABEL ON EACH METER SOCKET BREAKER INDICATING THE SPACE BEING SERVED.
11	4-SOCKET COMMERCIAL BRANCH UNIT, 3PH IN; 3-PH OUT, WITH BRANCH BREAKERS AS INDICATED ON ELEVATION, SQUARE D 'EZ METER-PAK' #EZML333225. PROVIDE PERMANENT LABEL ON EACH METER SOCKET BREAKER INDICATING THE SPACE BEING SERVED.
12	4 SETS: 4#500 KCMIL IN 4" CONDUIT FROM TRANSFORMER TO CMC. PROVIDE ALL TRENCHING AND BACKFILL. COORDINATE EXACT REQUIREMENTS WITH EVERGY. COORDINATE NUMBER OF CONDUITS WITH METER CENTER MANUFACTURER AND PROVIDE TERMINATION BOX IF REQUIRED.





1 ELECTRIC SERVICE ELEVATION
NO SCALE

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS



2026.04.22 14:32:11-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

E-6.3

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Breaker Function Schedule

A	Arc-Fault Interrupter (AFCI) Protection
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
GA	Combination Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA) + Arc-Fault Interrupter (AFCI) Protection
L	Lockable open according to NEC 110.25

Meter Center CMC

Location: North Exterior Wall
Supply From: UTILITY TRANSFORMER
Mounting: Surface
Enclosure: NEMA 1

Volts: 208Y/120 3PH 4W
Phas... 3
Wires: 4

A.I.C. Rating: 42 kA
Mains Type: MCB
Bus Rating: 1000 A
Mains... 1000 A

Panel Notes:

#	Circuit Description	C/B Amps	# of Poles	Circuitry	Load	Notes (See below)
CMC:1	COMMERICAL PANEL "C1"	225.0 A	3	2-1/2"C,3-250kcmil,250kcmil N,#3G	50.91 kVA	
CMC:2	HOUSE SERVICE PANEL "MDP"	400.0 A	3	(3)3"C,3-300kcmil,300kcmil N,1/0G	120.66...	
CMC:3	SPARE	400.0 A	3	--	0.00 kVA	
CMC:4	SPARE	225.0 A	3	--	0.00 kVA	
CMC:5	SPARE	225.0 A	3	--	0.00 kVA	
CMC:6	SPARE	225.0 A	3	--	0.00 kVA	
CMC:7	SPARE	225.0 A	3	--	0.00 kVA	
CMC:8	SPARE	225.0 A	3	--	0.00 kVA	
CMC:9	SPARE	225.0 A	3	--	0.00 kVA	
CMC:10	SPARE	225.0 A	3	--	0.00 kVA	

Circuit Notes:

Designation: HP1

Installed Location: MECH 108
Voltage: 208Y/120 3PH 4W-3Ph-4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: 225
Features & Modifications: INTEGRAL SURGE PROTECTION

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

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
HP1:1	FIRE ALARM CONTROL PANEL	1/2"C,1#12,#12N,#12G	20	L	50... 38...				20	1/2"C,1#12,#12N,#12G	STAIRWELL LIGHTING	HP1:2
HP1:3	COMMUNITY RM REFRIGERATOR	1/2"C,1#12,#12N,#12G	20			10... 54...			20	1/2"C,1#12,#12N,#12G	COMMUNITY ROOM LIGHTING	HP1:4
HP1:5	COMMUNITY RM DISPOSAL	1/2"C,1#12,#12N,#12G	20				11... 39...		20	1/2"C,1#12,#12N,#12G	FITNESS CENTER LIGHTING	HP1:6
HP1:7	COMMUNITY RM DISHWASHER	1/2"C,1#12,#12N,#12G	20		84... 31...				20	1/2"C,1#12,#12N,#12G	HALLWAY LIGHTING	HP1:8
HP1:9	COMMUNITY RM CT RECEPTACLE	1/2"C,1#12,#12N,#12G	20			10... 32...			20	1/2"C,1#12,#12N,#12G	1ST FLOOR EM LIGHTS & EXIT SIGNS	HP1:10
HP1:11	COMMUNITY RM CT RECEPTACLE	1/2"C,1#12,#12N,#12G	20				10... 13...		20	1/2"C,1#12,#12N,#12G	SOUTH EXTERIOR FACADE LIGHTING	HP1:12
HP1:13	COMMUNITY RM RECEPTACLES	1/2"C,1#12,#12N,#12G	20		72... 89...				20	1/2"C,1#12,#12N,#12G	NORTH EXTERIOR WALL PACKS	HP1:14
HP1:15	COMMUNITY RM ISLAND RECEPTACLES	1/2"C,1#12,#12N,#12G	20			72... 22...			20	1/2"C,1#12,#12N,#12G	EAST EXTERIOR WALL PACKS	HP1:16
HP1:17	COMMUNITY RM RECEPTACLES	1/2"C,1#12,#12N,#12G	20				36... 59...		20	3/4"C,1#6,#6N,#6G	PARKING LOT LIGHTS	HP1:18
HP1:19	LEASING OFFICE RECEPTACLES	1/2"C,1#12,#12N,#12G	20		10... 60...				20	3/4"C,1#6,#6N,#6G	PARKING LOT LIGHTS	HP1:20
HP1:21	FITNESS CENTER TREADMILL	1/2"C,1#12,#12N,#12G	20			12... 31...			40	1/2"C,2#8,#10G	BLOWER COIL "BC-2"	HP1:22
HP1:23	FITNESS CENTER TREADMILL	1/2"C,1#12,#12N,#12G	20				12... 31...					HP1:24
HP1:25	FITNESS CENTER ELLIPTICAL	1/2"C,1#12,#12N,#12G	20		10... 40...				50	3/4"C,2#6,#10G	BLOWER COIL "BC-3"	HP1:26
HP1:27	FITNESS CENTER EXCERCISE BIKE	1/2"C,1#12,#12N,#12G	20			50... 40...					HEATER CIRCUIT #1 + FAN	HP1:28
HP1:29	FITNESS CENTER EXCERCISE BIKE	1/2"C,1#12,#12N,#12G	20				50... 18...		30	1/2"C,2#10,#10G	BLOWER COIL "BC-3"	HP1:30
HP1:31	FITNESS CENTER WATER FOUNTAIN	1/2"C,1#12,#12N,#12G	20		80... 18...						HEATER CIRCUIT #2	HP1:32
HP1:33	FITNESS CENTER RECEPTACLES	1/2"C,1#12,#12N,#12G	20			10... 13...			20	1/2"C,2#12,#12G	HEAT PUMP "HP-2"	HP1:34
HP1:35	FITNESS CENTER TVS	1/2"C,1#12,#12N,#12G	20				90... 13...					HP1:36
HP1:37	FIRE FLOW SWITCHES	1/2"C,1#12,#12N,#12G	20	L	36... 24...				30	1/2"C,2#10,#10G	HEAT PUMP "HP-3"	HP1:38
HP1:39	DEDICATED ELEVATOR SUMP PUMP	1/2"C,1#12,#12N,#12G	20			11... 24...						HP1:40
HP1:41	BOH RECEPTACLES	1/2"C,1#12,#12N,#12G	20				14... 15...		20	1/2"C,2#12,#12G	ELECTRIC WALL HEATER "EWH-1"	HP1:42
HP1:43	HOT WATER HEATER "HWH-B"	1/2"C,1#10,#10N,#10G	30		25... 15...							HP1:44
HP1:45	HOT WATER RECIRC PUMP "HWP"	1/2"C,1#12,#12N,#12G	20			11... 24...			30	1/2"C,2#10,#10G	STAIRWELL S2	HP1:46
HP1:47	MECH RM EXHAUST FAN "EF-3"	1/2"C,1#12,#12N,#12G	20				10... 24...				IU-1A&1B/ OU-1	HP1:48
HP1:49	ELECTRIC WALL HEATER "EWH-2"	1/2"C,1#12,#12N,#12G	20		15... 15...				20	1/2"C,1#8,#8N,#8G	ELECTRIC WALL HEATER "EWH-4"	HP1:50
HP1:51	120V LIGHTING CONTROL POWER	1/2"C,1#12,#12N,#12G	20			0 VA 0 VA			20	--	SPARE	HP1:52
HP1:53	MONUMENT SIGN LIGHTS	1/2"C,1#12,#12N,#12G	20				22... 0 VA		20	--	SPARE	HP1:54
HP1:55	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20		36... 0 VA				20	--	SPARE	HP1:56
HP1:57	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20			36... --			--	--	SPACE	HP1:58
HP1:59	EXTERIOR RECEPTACLE	1/2"C,1#12,#12N,#12G	20				18... --		--	--	SPACE	HP1:60
HP1:61	ELEVATOR PIT RECEPTACLE	1/2"C,1#12,#12N,#12G	20		18... --				--	--	SPACE	HP1:62
HP1:63	ELEVATOR PIT LIGHT	1/2"C,1#12,#12N,#12G	20			27... --			--	--	SPACE	HP1:64
HP1:65	ELEVATOR CAB LIGHTS	1/2"C,1#12,#12N,#12G	20	L			0 VA --		--	--	SPACE	HP1:66
HP1:67	SPACE	--	--		-- --				--	--	SPACE	HP1:68
HP1:69	SPACE	--	--			-- --			--	--	SPACE	HP1:70
HP1:71	SPACE	--	--				-- --		--	--	SPACE	HP1:72
HP1:73	SPACE	--	--		-- --				--	--	SPACE	HP1:74
HP1:75	SPACE	--	--			-- --			--	--	SPACE	HP1:76
HP1:77	SPACE	--	--				-- --		--	--	SPACE	HP1:78
HP1:79	SPACE	--	--		-- --				--	--	SPACE	HP1:80
HP1:81	SPACE	--	--			-- --			--	--	SPACE	HP1:82
HP1:83	SPACE	--	--				-- --		--	--	SPACE	HP1:84
		Connected Load:			22573 VA	21297 VA	19670 VA					
		Connected Amps:			190.2 A	179.6 A	163.9 A					

Panelboard: MDP

Location: MECH 108
Supply: CMC
Mounting: Surface
Enclosure: NEMA 1
Features & Modifications: INTEGRAL SURGE PROTECTION

Voltage: 208 V, 3 Ø, 4 W
Bus Rating: 400 A
Neutral: 100%
Mains Type: MLO
Mains Rating: 400 A
Mains FN/Note: -
SCCR: 22 kA

Ckt	Description	Frame (A)	Trip (A)	Poles	FN/Note	Load
MDP:1	Elevator	100	100	3		16900
MDP:2	PANELBOARD HP1	225	225	3		63540
MDP:3	PANELBOARD HP2/HP4	225	225	3		40221
MDP:4	SPACE	--	--	3		--
MDP:5	SPACE	--	--	3		--
MDP:6	SPACE	--	--	3		--

Load Summary

Load Classification	Connected	Factor	Demand	Panel Totals	
Motor	13233 VA	108.36%	14340 VA	**Connected Load:**	121 kVA
Other	360 VA	100.00%	360 VA	**Connected Current:**	335 A
Lighting - Interior	7021 VA	125.00%	8776 VA	**Demand Load:**	127 kVA
Receptacle - General	23040 VA	71.70%	16520 VA	**Demand Current:**	353 A
Electric Water Heating	2500 VA	125.00%	3125 VA	**Non-Coincident...**	42.1 A
Electric Heat	38907 VA	125.00%	48634 VA	**Total Est. Demand ...**	310.5 A
Elevator	16900 VA	100.00%	16900 VA		
Kitchen Equipment	3015 VA	90.00%	2714 VA		
Power	500 VA	100.00%	500 VA		
Cooling	15184 VA	100.00%	15184 VA		

Designation: HP2

Installed Location: MECH 222
Voltage: 208Y/120 3PH 4W-3Ph-4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: 225
Features & Modifications: INTEGRAL SURGE PROTECTION

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

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
HP2:1	STAIRWELL S1 LIGHTING	1/2"C,1#12,#12N,#12G	20		40... 31...				40	1/2"C,2#8,#10G	BLOWER COIL "BC-1"	HP2:2
HP2:3	LEVEL 2 BOH LIGHTING	1/2"C,1#12,#12N,#12G	20			26... 31...					2ND FLOOR HALL	HP2:4
HP2:5	HALLWAY LIGHTING - LEVEL 2	1/2"C,1#12,#12N,#12G	20				57... 22...		40	1/2"C,2#8,#10G	BLOWER COIL "BC-1"	HP2:6
HP2:7	EM LIGHTING + EXIT SIGNS - LEVEL 2	1/2"C,1#12,#12N,#12G	20		19... 22...						3RD FLOOR HALL	HP2:8
HP2:9	HALLWAY RECEPTACLES - LEVEL 2	1/2"C,1#10,#10N,#10G	20			12... --			--	--	SPACE	HP2:10
HP2:11	SOUTH EXTERIOR FACADE LIGHTING	1/2"C,1#12,#12N,#12G	20				0 VA --		--	--	SPACE	HP2:12
HP2:13	NORTH EXTERIOR WALL PACKS	1/2"C,1#12,#12N,#12G	20		78... --				--	--	SPACE	HP2:14
HP2:15	SOUTH EXTERIOR FACADE LIGHTING	1/2"C,1#12,#12N,#12G	20			0 VA --			--	--	SPACE	HP2:16
HP2:17	HALLWAY LIGHTING - LEVEL 3	1/2"C,1#12,#12N,#12G	20				57... --		--	--	SPACE	HP2:18
HP2:19	EM LIGHTING + EXIT SIGNS - LEVEL 3	1/2"C,1#12,#12N,#12G	20		10... --				--	--	SPACE	HP2:20
HP2:21	HALLWAY RECEPTACLES - LEVEL 3	1/2"C,1#10,#10N,#10G	20			12... --			--	--	SPACE	HP2:22
HP2:23	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20				36... --		--	--	SPACE	HP2:24
HP2:25	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20		36... --				--	--	SPACE	HP2:26
HP2:27	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20			36... --			--	--	SPACE	HP2:28
HP2:29	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20				36... --		--	--	SPACE	HP2:30
HP2:31	EWH-3 - STAIR S1	1/2"C,1#12,#12N,#12G	20		15... --				--	--	SPACE	HP2:32
HP2:33	SPARE	--	20			0 VA --			--	--	SPACE	HP2:34
HP2:35	SPARE	--	20				0 VA --		--	--	SPACE	HP2:36
HP2:37	SPARE	--	20		0 VA --				--	--	SPACE	HP2:38
HP2:39	SPACE	--	--			-- --			--	--	SPACE	HP2:40
HP2:41	SPACE	--	--				-- --		--	--	SPACE	HP2:42
		Connected Load:			17392 VA	12859 VA	9970 VA					
		Connected Amps:			148.6 A	110.9 A	83.1 A					

Designation: C1

Installed Location: MECH 102
Voltage: 208Y/120 3PH 4W-3Ph-4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: 225
Features & Modifications: INTEGRAL SURGE PROTECTION

SCCR/AIC: 22.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
C1:1	SHELL LIGHTING	1/2"C,1#12,#12N,#12G	20		47... 37...				50	1"C,2#4,#6G	ELECTRIC UNIT HEATER "EUH-1"	C1:2
C1:3	SHELL LIGHTING	1/2"C,1#12,#12N,#12G	20			68... 37...						C1:4
C1:5	MECH RM LIGHTING	1/2"C,1#12,#12N,#12G	20				16... 37...		50	3/4"C,2#6,#10G	ELECTRIC UNIT HEATER "EUH-2"	C1:6
C1:7	SOUTH ENTRY CANOPY LIGHTING	1/2"C,1#12,#12N,#12G	20		18... 37...							C1:8
C1:9	WEST ENTRY CANOPY LIGHTING	1/2"C,1#12,#12N,#12G	20			50... 37...			50	3/4"C,2#6,#10G	ELECTRIC UNIT HEATER "EUH-3"	C1:10
C1:11	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20				36... 37...					C1:12
C1:13	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20		36... 37...				50	3/4"C,2#6,#10G	ELECTRIC UNIT HEATER "EUH-4"	C1:14
C1:15	SPARE	--	20			0 VA 37...						C1:16
C1:17	SPARE	--	20				0 VA 37...		50	3/4"C,2#6,#10G	ELECTRIC UNIT HEATER "EUH-5"	C1:18
C1:19	SPARE	--	20		0 VA 37...							C1:20
C1:21	SPARE	--	20			0 VA 37...			50	3/4"C,2#6,#10G	ELECTRIC UNIT HEATER "EUH-6"	C1:22
C1:23	SPARE	--	20				0 VA 37...					C1:24
C1:25	SPACE	--	--		-- 14...				15	1/2"C,2#12,#12G	MECH 102 - 'OU-3'	C1:26
C1:27	SPACE	--	--			-- 14...						C1:28
C1:29	SPACE	--	--				-- 54...		20	1/2"C,1#12,#12N,#12G	EXTERIOR RECEPTACLE	C1:30
C1:31	SPACE	--	--		-- --				--	--	SPACE	C1:32
C1:33	SPACE	--	--			-- --			--	--	SPACE	C1:34
C1:35	SPACE	--	--				-- --		--	--	SPACE	C1:36
C1:37	SPACE	--	--		-- --				--	--	SPACE	C1:38
C1:39	SPACE	--	--			-- --			--	--	SPACE	C1:40
C1:41	SPACE	--	--				-- --		--	--	SPACE	C1:42
		Connected Load:			17535 VA	17247 VA	16129 VA					
		Connected Amps:			147.6 A	145.2 A	134.4 A					

Designation: HP4

Installed Location: MECH 422
Voltage: 208Y/120 3PH 4W-3Ph-4W
Mounting: Surface
Enclosure: NEMA 1

Bus Amps: 225
MCB Amps: MLO
Features & Modifications: INTEGRAL SURGE PROTECTION

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

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
HP4:1	BOH LIGHTING - LEVEL 4	1/2"C,1#12,#12N,#12G	20		13... 22...				40	1/2"C,2#8,#10G	BLOWER COIL 'BC-1'	HP4:2
HP4:3	HALLWAY LIGHTING - LEVEL 4	1/2"C,1#12,#12N,#12G	20			57... 22...						HP4:4
HP4:5	EM LIGHTING + EXIT SIGNS - LEVEL 4	1/2"C,1#12,#12N,#12G	20				10... 12...		20	1/2"C,2#12,#12G	HALLWAY HEAT PUMP "HP-1"	HP4:6
HP4:7	HALLWAY RECEPTACLES - LEVEL 4	1/2"C,1#10,#10N,#10G	20		12... 12...						LEVEL 2	HP4:8
HP4:9	ROOF RECEPTACLES	1/2"C,1#12,#12N,#12G	20			54... 12...			20	1/2"C,2#12,#12G	HALLWAY HEAT PUMP "HP-1"	HP4:10
HP4:11	ROOF RECEPTACLES	1/2"C,1#12,#12N,#12G	20				54... 12...				LEVEL 3	HP4:12
HP4:13	FUTURE RADON FANS	1/2"C,1#10,#10N,#10G	20		72... 12...				20	1/2"C,2#12,#12G	HALLWAY HEAT PUMP "HP-1"	HP4:14
HP4:15	FUTURE RADON FANS	1/2"C,1#10,#10N,#10G	20			54... 12...					LEVEL 4	HP4:16
HP4:17	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20				36... 24...		30	1/2"C,2#10,#10G	STAIRWELL S1	HP4:18
HP4:19	I.T. RECEPTACLE	1/2"C,1#12,#12N,#12G	20		36... 24...						IU-2A&2B/ OU-2	HP4:20
HP4:21	ELEVATOR HOISTWAY RECEPTACLE	1/2"C,1#12,#12N,#12G	20			18... --			--	--	SPACE	HP4:22
HP4:23	ELEVATOR HOISTWAY LIGHT	1/2"C,1#12,#12N,#12G	20				27... --		--	--	SPACE	HP4:24
HP4:25	SPARE	--	20		0 VA --				--	--	SPACE	HP4:26
HP4:27	SPARE	--	20			0 VA --			--	--	SPACE	HP4:28
HP4:29	SPARE	--	20				0 VA --		--	--	SPACE	HP4:30
HP4:31	SPACE	--	--		-- --				--	--	SPACE	HP4:32
HP4:33	SPACE	--	--			-- --			--	--	SPACE	HP4:34
HP4:35	SPACE	--	--				-- --		--	--	SPACE	HP4:36
HP4:37	SPACE	--	--		-- --				--	--	SPACE	HP4:38
HP4:39	SPACE	--	--			-- --			--	--	SPACE	HP4:40
HP4:41	SPACE	--	--				-- --		--	--	SPACE	HP4:42
		Connected Load:			9640 VA	6542 VA	5890 VA					
		Connected Amps:			81.2 A	55.4 A	49.1 A					

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

JOHN PATRICK LIPS — 24155 — KANSAS PROFESSIONAL ENGINEER

2026.04.22 14:48:28-05'00'

REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

E-6.4

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Meter Center RMC

Location: North Exterior Wall
Supply From: UTILITY TRANSFORMER
Mounting: Surface
Enclosure: NEMA 1

Volts: 208Y/120 3PH 4W
Phas... 3
Wires: 4

A.I.C. Rating: 42 kA
Mains Type: MCB
Bus Rating: 1600 A
Mains... 1600 A

Panel Notes:
PROVIDE WITH INTEGRAL SURGE PROTECTION

#	Circuit Description	C/B Amps	# of Poles	Circuitry	Load	Notes (See below)
RMC:1	114	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:2	116	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:3	118	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:4	201	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:5	202	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:6	203	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:7	204	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:8	205	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:9	206	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:10	207	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:11	208	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:12	209	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:13	210	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:14	211	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:15	212	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:16	213	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:17	214	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:18	215	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:19	216	125.0 A	2	2"C,2-4/0,4/0N,#2G	23.88 kVA	
RMC:20	217	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:21	218	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:22	220	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:23	301	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:24	302	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:25	303	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:26	304	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:27	305	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:28	306	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:29	307	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:30	308	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:31	309	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:32	310	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:33	311	125.0 A	2	2"C,2-4/0,4/0N,#2G	23.88 kVA	
RMC:34	312	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:35	313	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:36	314	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:37	315	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:38	316	125.0 A	2	2"C,2-4/0,4/0N,#2G	23.88 kVA	
RMC:39	317	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:40	318	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:41	320	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:42	401	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:43	402	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:44	403	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:45	404	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:46	405	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:47	406	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:48	407	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:49	408	125.0 A	2	1-1/2"C,2-1/0,1/0N,#6G	23.88 kVA	
RMC:50	409	125.0 A	2	2"C,2-4/0,4/0N,#2G	23.88 kVA	
RMC:51	410	125.0 A	2	1-1/2"C,2-2/0,2/0N,#4G	23.88 kVA	
RMC:52	411	125.0 A	2	2"C,2-4/0,4/0N,#2G	23.88 kVA	
RMC:53	412	125.0 A	2	2"C,2-3/0,3/0N,#3G	23.88 kVA	
RMC:54	413	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:55	414	125.0 A	2	2"C,2-4/0,4/0N,#2G	23.88 kVA	
RMC:56	415	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:57	416	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:58	417	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:59	418	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	
RMC:60	420	125.0 A	2	2"C,2-250kcmil,250kcmil N,#2G	23.88 kVA	

Circuit Notes:
CIRCUITS HAVE BEEN ADJUSTED FOR VOLTAGE DROP. NO FURTHER UPSIZING IS REQUIRED.

Breaker Function Schedule

A	Arc-Fault Interrupter (AFCI) Protection
G	Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA)
GA	Combination Ground-Fault Circuit Interrupter (GFCI) Protection (5 mA) + Arc-Fault Interrupter (AFCI) Protection
L	Lockable open according to NEC 110.25

Designation: 3C

Installed Location: 3 BEDROOM C
Voltage: 120/208 1PH 3W-1Ph-3W
Mounting: RECESSED
Enclosure: NEMA 1

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

SCCR/AIC: 14.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
3C:1	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA	36... 22...				30	1/2"C,2#10,#10G	ELECTRIC WATER HEATER	3C:2
3C:3	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA		54... 22...						3C:4
3C:5	DISHWASHER	1/2"C,1#12,#12N,#12G	20	GA	50... 25...			G	30	1/2"C,2#10,#10N,#10G	CLOTHES DRYER	3C:6
3C:7	GARBAGE DISPOSAL	1/2"C,1#12,#12N,#12G	20	GA		11... 25...						3C:8
3C:9	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	GA	18... 40...			G	50	3/4"C,2#6,#6N,#10G	ELECTRIC RANGE	3C:10
3C:11	ENTRY/HALL RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A		54... 40...						3C:12
3C:13	LIVING ROOM RECEPTACCLES	1/2"C,1#12,#12N,#12G	20	A	72... 22...				40	1/2"C,2#8,#10G	BLOWER COIL "BC-1"	3C:14
3C:15	KITCHEN/LIVING/HALL LIGHTING	1/2"C,1#12,#12N,#12G	20	A		18... 22...						3C:16
3C:17	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	GA	25... 12...				20	1/2"C,2#12,#12G	HEAT PUMP "HP-1"	3C:18
3C:19	CLOTHES WASHER RECEPTACLE	1/2"C,1#12,#12N,#12G	20	GA		18... 12...						3C:20
3C:21	BATHROOM	1/2"C,1#12,#12N,#12G	20	A	59... --			--	--	--	SPACE	3C:22
3C:23	BEDROOM 1	1/2"C,1#12,#12N,#12G	20	A		11... --		--	--	--	SPACE	3C:24
3C:25	BEDROOM 2	1/2"C,1#12,#12N,#12G	20	A	77... --			--	--	--	SPACE	3C:26
3C:27	BEDROOM 3	1/2"C,1#12,#12N,#12G	20	A		95... 0 VA			30	--	SURGE PROTECTION	3C:28
3C:29	SPARE	--	20	A	0 VA 0 VA							3C:30
					Connected Load:	15595 VA	16943 VA	0 VA				
					Connected Amps:	150.0 A	161.2 A	0.0 A				

Designation: 1A

Installed Location: 1 BEDROOM
Voltage: 120/208 1PH 3W-1Ph-3W
Mounting: RECESSED
Enclosure: NEMA 1

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

SCCR/AIC: 14.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
1A:1	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA	3.0 A 21....			30	1/2"C,2#10,#10G	ELECTRIC WATER HEATER "HWH-A"	1A:2
1A:3	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA		4.5 A 21....					1A:4
1A:5	DISHWASHER	1/2"C,1#12,#12N,#12G	20	GA	8.3 A 24....		G	30	1/2"C,2#10,#10N,#10G	CLOTHES DRYER	1A:6
1A:7	GARBAGE DISPOSAL	1/2"C,1#12,#12N,#12G	20	GA		9.8 A 24....					1A:8
1A:9	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	GA	1.5 A 38....		G	50	3/4"C,2#6,#6N,#10G	ELECTRIC RANGE	1A:10
1A:11	LIVING AREA RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A		10.... 38....					1A:12
1A:13	KITCHEN/LIVING/HALL LIGHTING	1/2"C,1#12,#12N,#12G	20	A	1.2 A 21....			40	1/2"C,2#8,#10G	BLOWER COIL "BC-1"	1A:14
1A:15	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	GA		10.... 21....					1A:16
1A:17	CLOTHES WASHER RECEPTACLE	1/2"C,1#12,#12N,#12G	20	GA	10.... 12....			20	1/2"C,2#12,#12G	HEAT PUMP "HP-1"	1A:18
1A:19	BATHROOM	1/2"C,1#12,#12N,#12G	20	A		2.5 A 12....					1A:20
1A:21	BEDROOM 1	1/2"C,1#12,#12N,#12G	20	A	9.6 A 0.0 A			30	--	SURGE PROTECTION	1A:22
1A:23	SPARE	--	20	A		0.0 A 0.0 A					1A:24

Notes:

Designation: 4B

Installed Location: 4 BEDROOM
Voltage: 120/208 1PH 3W-1Ph-3W
Mounting: RECESSED
Enclosure: NEMA 1

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

SCCR/AIC: 14.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	C	FN	Trip (A)	Circuitry	Description	Ckt
4B:1	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA	36... 36...			A	20	1/2"C,1#12,#12N,#12G	KITCHEN ISLAND RECEPTACLES	4B:2
4B:3	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA		36... 11...		GA	20	1/2"C,1#12,#12N,#12G	GARBAGE DISPOSAL	4B:4
4B:5	DISHWASHER	1/2"C,1#12,#12N,#12G	20	GA	50... 22...				30	1/2"C,2#10,#10G	ELECTRIC WATER HEATER	4B:6
4B:7	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	GA		18... 22...						4B:8
4B:9	ENTRY RECEPTACLES	1/2"C,1#12,#12N,#12G	20	A	54... 25...			G	30	1/2"C,2#10,#10N,#10G	CLOTHES DRYER	4B:10
4B:11	LIVING ROOM RECEPTACCLES	1/2"C,1#12,#12N,#12G	20	A		90... 25...						4B:12
4B:13	KITCHEN/LIVING/HALL LIGHTING	1/2"C,1#12,#12N,#12G	20	A	17... 40...			G	50	3/4"C,2#6,#6N,#10G	RANGE	4B:14
4B:15	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	GA		25... 40...						4B:16
4B:17	CLOTHES WASHER RECEPTACLE	1/2"C,1#12,#12N,#12G	20	GA	18... 22...				40	1/2"C,2#8,#10G	BLOWER COIL "BC-2"	4B:18
4B:19	BATHROOM	1/2"C,1#12,#12N,#12G	20	A		32... 22...						4B:20
4B:21	MASTER BATHROOM	1/2"C,1#12,#12N,#12G	20	A	32... 13...				20	1/2"C,2#12,#12G	HEAT PUMP "HP-2"	4B:22
4B:23	BEDROOM 1	1/2"C,1#12,#12N,#12G	20	A		95... 13...						4B:24
4B:25	BEDROOM 2	1/2"C,1#12,#12N,#12G	20	A	77... 0 VA				20	--	SPARE	4B:26
4B:27	BEDROOM 3	1/2"C,1#12,#12N,#12G	20	A		77... 0 VA			30	--	SURGE PROTECTION	4B:28
4B:29	BEDROOM 4	1/2"C,1#12,#12N,#12G	20	A	77... 0 VA							4B:30
					Connected Load:	16310 VA	17243 VA	0 VA				
					Connected Amps:	156.8 A	164.6 A	0.0 A				

Designation: 2A

Installed Location: 2 BEDROOM
Voltage: 120/208 1PH 3W-1Ph-3W
Mounting: RECESSED
Enclosure: NEMA 1

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

SCCR/AIC: 14.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
2A:1	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA	540... 225...			30	1/2"C,2#10,#10G	ELECTRIC WATER HEATER	2A:2
2A:3	KITCHEN RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA		360... 225...					2A:4
2A:5	DISHWASHER	1/2"C,1#12,#12N,#12G	20	GA	500... 250...		G	30	1/2"C,2#10,#10N,#10G	CLOTHES DRYER	2A:6
2A:7	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	GA		180... 250...					2A:8
2A:9	GARBAGE DISPOSAL	1/2"C,1#12,#12N,#12G	20	GA	117... 400...		G	50	3/4"C,2#6,#6N,#10G	ELECTRIC RANGE	2A:10
2A:11	LIVING ROOM RECEPTACCLES	1/2"C,1#12,#12N,#12G	20	A		108... 400...					2A:12
2A:13	KITCHEN/LIVING/HALL LIGHTING	1/2"C,1#12,#12N,#12G	20	A	130... 221...			40	1/2"C,2#8,#10G	BLOWER COIL "BC-1"	2A:14
2A:15	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	GA		252... 221...					2A:16
2A:17	CLOTHES WASHER RECEPTACLE	1/2"C,1#12,#12N,#12G	20	GA	180... 124...			20	1/2"C,2#12,#12G	HEAT PUMP "HP-1"	2A:18
2A:19	BATHROOM	1/2"C,1#12,#12N,#12G	20	A		312... 124...					2A:20
2A:21	BEDROOM 1	1/2"C,1#12,#12N,#12G	20	A	987... 0 VA			30	--	SURGE PROTECTION	2A:22
2A:23	BEDROOM 2	1/2"C,1#12,#12N,#12G	20	A		113... 0 VA					2A:24
					Connected Load:	15722 VA	15532 VA				
					Connected Amps:	150.9 A	149.3 A				

Designation: 3B

Installed Location: 3 BEDROOM B
Voltage: 120/208 1PH 3W-1Ph-3W
Mounting: RECESSED
Enclosure: NEMA 1

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

SCCR/AIC: 14.0 kA
Mains FN/Note: -

Ckt	Description	Circuitry	Trip (A)	FN	A	B	FN	Trip (A)	Circuitry	Description	Ckt
3B:1	KITCHEN/DINING RECEPTACLES	1/2"C,1#12,#12N,#12G	20	GA	4.5 A 21....			30	1/2"C,2#10,#10G	ELECTRIC WATER HEATER	3B:2
3B:3	GARBAGE DISPOSAL	1/2"C,1#12,#12N,#12G	20			9.8 A 21....					3B:4
3B:5	DISHWASHER	1/2"C,1#12,#12N,#12G	20	GA	4.2 A 24....						3B:6
3B:7	REFRIGERATOR	1/2"C,1#12,#12N,#12G	20	GA		1.5 A 24....	G	30	1/2"C,2#10,#10N,#10G	CLOTHES DRYER	3B:8
3B:9	LIVING ROOM RECEPTACCLES	1/2"C,1#12,#12N,#12G	20	A	12.... 38....						3B:10
3B:11	KITCHEN/LIVING/HALL LIGHTING	1/2"C,1#12,#12N,#12G	20	A		1.3 A 38....	G	50	3/4"C,2#6,#6N,#10G	RANGE	3B:12
3B:13	HOOD/MICROWAVE	1/2"C,1#12,#12N,#12G	20	GA	2.1 A 21....						3B:14
3B:15	CLOTHES WASHER RECEPTACLE	1/2"C,1#12,#12N,#12G	20	GA		1.5 A 21....		40	1/2"C,2#8,#10G	BLOWER COIL "BC-1"	3B:16
3B:17	BATHROOM	1/2"C,1#12,#12N,#12G	20	A	5.0 A 12....						3B:18
3B:19	BEDROOM 1	1/2"C,1#12,#12N,#12G	20	A		6.7 A 12....		20	1/2"C,2#12,#12G	HEAT PUMP "HP-1"	3B:20
3B:21	BEDROOM 2	1/2"C,1#12,#12N,#12G	20	A	5.0 A 0.0 A						3B:22
3B:23	BEDROOM 3	1/2"C,1#12,#12N,#12G	20	A		8.0 A 0.0 A		30	--	SURGE PROTECTION	3B:24

Notes:

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THE RESERVES AT MEADOWS 25
NEW SENIOR LIVING FACILITY
GODDARD, KANSAS

RYAN PATRICK LINK
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PROFESSIONAL ENGINEER

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REVISIONS:

DATE: 04/21/2026
JOB: 24-3379
SHEET NO.:

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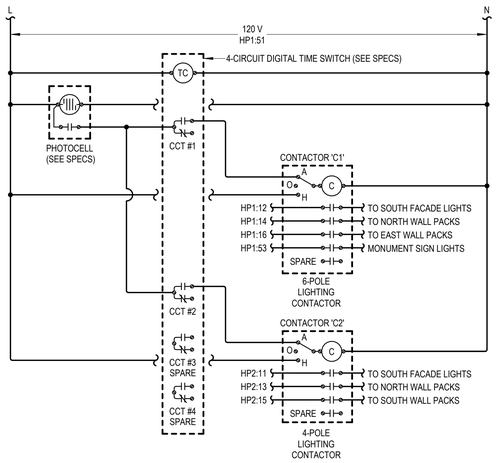
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LIGHT FIXTURE SCHEDULE

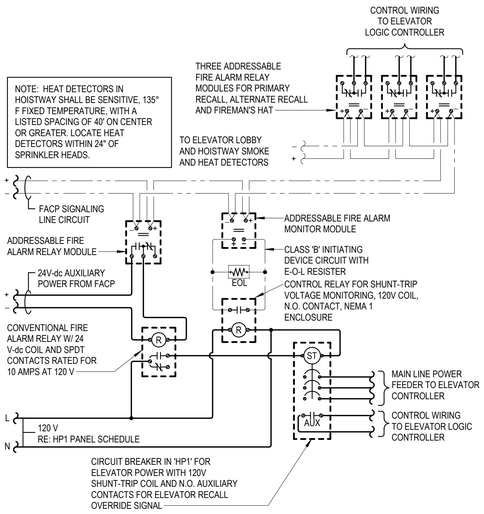
GENERAL:
- ALL LEDs SHALL BE 3500K CORRELATED COLOR TEMPERATURE, MINIMUM 80 CRI.
- ALL LED FIXTURES SHALL ADHERE TO LM79 AND LM80 STANDARDS.
- PROVIDE MANUFACTURERS' FLANGE KIT WHERE LAY-IN FIXTURES ARE TO BE INSTALLED IN GYP.

NOTES:
1. PROVIDE FIXTURE WITH INTEGRAL EMERGENCY BATTERY AND CHARGER WITH SELF-DIAGNOSTIC/SELF-TESTING ELECTRONICS.
2. FIXTURE SHALL BE CAPABLE OF WALL OR CEILING MOUNT APPLICATIONS AND SHALL HAVE BREAK-OUT DIRECTIONAL CHEVRONS.
3. PROVIDE FIXTURE WITH INTEGRAL OCCUPANCY SENSOR AND CONTROLS TO DIM FIXTURE TO 50% LIGHT OUTPUT WHEN UNOCCUPIED.
4. LIGHT FIXTURE SELECTED BY INTERIOR DESIGNER AND PROVIDED BY E.C. ALL SUBSTITIUTIONS SHALL BE APPROVED BY INTERIOR DESIGNER.
5. FIXTURE SHALL BE CAPABLE OF OPERATION IN TEMPERATURES RANGING FROM -4F THROUGH 104F.
6. U.L. LISTED FOR 'DAMP LOCATION'.
7. U.L. LISTED FOR 'WET LOCATION'.
8. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
9. PROVIDE FIXTURE/POLE ASSEMBLY WITH 20' ROUND STRAIGHT STEEL POLE, BLACK TO MATCH FIXTURE.
10. FIXTURE/POLE ASSEMBLY SHALL BE RATED FOR 100 MPH WIND LOADS. PROVIDE WITH VIBRATION DAMPER PER MANUFACTURER'S RECOMMENDATIONS.
11. PROVIDE WITH MANUFACTURERS IC RATED FRAME KIT.

MARK	MANUFACTURER	MODEL NUMBER	WATTAGE	LUMEN OUTPUT	DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
B	---	---			STANDARD	SURFACE WALL	---	24" BATHROOM VANITY LIGHT SELECTED BY INTERIOR DESIGNER	4
D	HALO	SMX6RLSFSD2W	13 W	1200 lm	LED DRIVER, DIMMABLE	CEILING SURFACE	WHITE	6" DIA ROUND SURFACE MOUNT DOWNLIGHT WITH SELECTABLE LUMEN OUTPUT	--
E1	LITHONIA	ELM6L UVOLT LTP			--	WALL AT 7'-6" AFF	WHITE	TWIN HEAD POLYCARBONATE EMERGENCY LIGHT	1
F	DAY-BRITE CFI	FSS440L835-UNV-DIM	30 W	4077 lm	LED DRIVER, DIMMABLE	SUSPENDED	WHITE	4' STANDARD STRIP WITH CURVED FROSTED ACRYLIC LENS	--
G	LIGHTOLIER	6RA-P6RDL10935MCL-Z10U	15 W	1000 lm	LED DRIVER, DIMMABLE	RECESSED	WHITE	6" DIA ROUND RECESSED MOUNTED DOWNLIGHT	6,11
O	LITHONIA	WL4-40L-EZ1-LP835-MSD7-DIM50-E10WLCP	40 W	1000 lm	LED DRIVER	SURFACE WALL	WHITE	4 FT. WALL MOUNTED STAIRWELL LIGHT WITH EMERGENCY BATTERY BACKUP	3
Q1	GARDCO	GCM-B04-835-SPT-UNV			STANDARD	SURFACE WALL	COORD. W/ ARCH.	EXTERIOR UP/DOWN WALL LIGHT	5,7,8
Q2	GARDCO	GCS-B02-835-SPT-U-UNV			STANDARD	SURFACE WALL	COORD. W/ ARCH.	EXTERIOR UP WALL LIGHT	5,7,8
R1	MCGRAW-EDISON	GALN-SA4C-835-U-5WQ	213 W	29108 lm	LED DRIVER	ROUND POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE V DISTRIBUTION	5,7,9,10
R2	MCGRAW-EDISON	GALN-SA2C-835-U-T2	108 W	14219 lm	LED DRIVER	ROUND POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE II DISTRIBUTION	5,7,9,10
R3	MCGRAW-EDISON	GALN-SA2C-835-U-SLL	108 W	12187 lm	LED DRIVER	ROUND POLE	BLACK	LED AREA LIGHT, SINGLE HEA WITH LEFT SIDE CUT-OFF DISTRIBUTION	5,7,9,10
R4	MCGRAW-EDISON	GALN-SA2C-835-U-SLR	108 W	12187 lm	LED DRIVER	ROUND POLE	BLACK	LED AREA LIGHT, SINGLE HEA WITH RIGHT SIDE CUT-OFF DISTRIBUTION	5,7,9,10
S	ACCLAIM	DFB-111-AKEU	50 W	2455 lm	STANDARD	GRADE	BLACK	IP-66 RATED, GRADE MOUNTED LED FLOOD LIGHT	5,7
T	LITHONIA	FEM-L48-IMAFL-WD-MVOLT-GZ10-35K-80CRI	24 W	3615 lm	STANDARD	SURFACE WALL	WHITE	4 FT. FULLY ENCLOSED AND GASKETED INDUSTRIAL FIXTURE WITH FROSTED, RIBBED, IMPACT RESISTANT ACRYLIC LENS	---
V	BULLARD BOLLARDS	CCD2	600 W	6 lm	STANDARD	SURFACE WALL	BLACK	DECORATIVE WALL SCONCE	7,8
W1	GARDCO	GCS-A01-835-T3M-UNV	10 W	1537 lm	STANDARD	WALL	BLACK	EXTERIOR LED WALL PACK WITH IES TYPE IV DISTRIBUTION	5,7,8
X1	LITHONIA	LQM S W RG MVOLT EL SD	5 W		--	CEILING		SINGLE SIDED EXIT SIGN WITH BATTERY BACKUP AND SELF-DIAGNOSTICS	1,2
X2	LITHONIA	LQM S W RG MVOLT EL SD	5 W		--	CEILING		DOUBLE SIDED EXIT SIGN WITH BATTERY BACKUP AND SELF-DIAGNOSTICS	1,2
XE	LITHONIA	LHQM LED R HO	4 W	1045 lm	--	Wall		EXIT/EMERGENCY COMBINATION	1,2
XER	LITHONIA	LHQM LED R HO + ELMRW LP220T	8 W	1045 lm	--	Wall		EXIT/EMERGENCY COMBO WITH EXTERIOR REMOTE HEADS	1,2



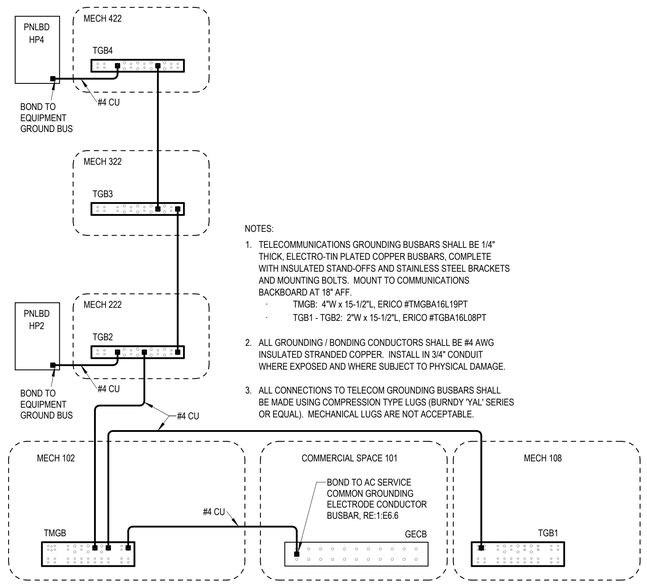
4 LIGHTING CONTROL DIAGRAM
NO SCALE



ELEVATOR RECALL AND SHUT-DOWN SEQUENCE OF OPERATION:

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

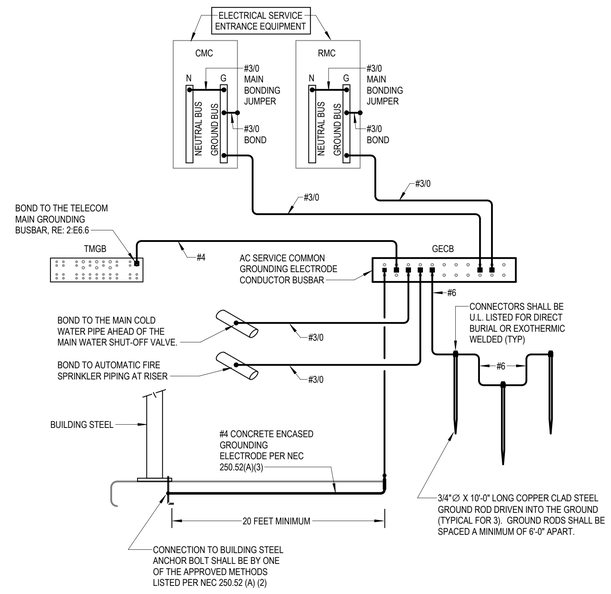
3 ELEVATOR RECALL AND SHUT-DOWN WIRING DIAGRAM
NO SCALE



NOTES:
1. TELECOMMUNICATIONS GROUNDING BUSBARS SHALL BE 1/4" THICK, ELECTRO-TIN PLATED COPPER BUSBARS, COMPLETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS AND MOUNTING BOLTS. MOUNT TO COMMUNICATIONS BACKBOARD AT 18" AFF.
   - TMGB: 4"W x 15-1/2"L, ERICO #TMGBA16L19PT
   - TGB1 - TGB2: 2"W x 15-1/2"L, ERICO #TGBA16L08PT
2. ALL GROUNDING / BONDING CONDUCTORS SHALL BE #4 AWG INSULATED STRANDED COPPER. INSTALL IN 3/4" CONDUIT WHERE EXPOSED AND WHERE SUBJECT TO PHYSICAL DAMAGE.
3. ALL CONNECTIONS TO TELECOM GROUNDING BUSBARS SHALL BE MADE USING COMPRESSION TYPE LUGS (BURNDY 'YAL' SERIES OR EQUAL). MECHANICAL LUGS ARE NOT ACCEPTABLE.

2 COMMUNICATIONS GROUNDING DETAIL
NO SCALE

NOTES:
1. COMMON GROUNDING ELECTRODE CONDUCTOR BUSBAR SHALL BE 1/4" THICK x 4" WIDE x 24" LONG, TIN PLATED COPPER BUSBAR. PROVIDE COMPLETE WITH INSULATING STAND OFFS, STAINLESS STEEL BRACKETS AND MOUNTING BOLTS. MOUNT ON WALL AT 18" AFF. ERICO #EGBA14424CCT OR EQUAL.
2. ALL CONNECTIONS TO GROUNDING BUSBAR SHALL BE MADE USING COMPRESSION TYPE LUGS (BURNDY 'YAZ' SERIES OR EQUAL). MECHANICAL LUGS ARE NOT ACCEPTABLE.
3. INSTALL ALL GROUNDING ELECTRODE CONDUCTORS IN 3/4" CONDUIT WHERE EXPOSED AND WHERE SUBJECT TO PHYSICAL DAMAGE.
4. CONTRACTOR SHALL MEASURE RESISTANCE TO GROUND AND PROVIDE ADDITIONAL GROUND ROD OR PLATE ELECTRODES AS REQUIRED UNTIL A RESISTANCE TO GROUND OF 25 OHMS OR LESS IS ACHIEVED.



1 AC SERVICE GROUNDING DETAIL
NO SCALE

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