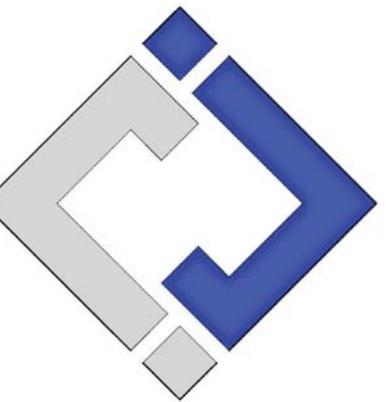


Mechanical - Electrical - Plumbing Design Drawings for Marcus Garvey Harmony Apartments

1537 NE 24th Street
Oklahoma City, OK, 73111



James Watson, P.E. October 8th, 2021
PE-32421
OK Certificate of Authority # 8654



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J2 PROJECT No: J20395

J2 DESIGN: KEL

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GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
- ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO INCLUDE IN HIS SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH HIS WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE HIS WORK, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

DEFERRED SUBMITTAL NOTES

- FIRE ALARM CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL FOR FIRE ALARM SYSTEM. SUBMITTAL TO INCLUDE BATTERY CALCULATION, VOLTAGE DROP CALCULATIONS, AND DEVICE CUT SHEETS FOR DEVICES AND PANELS.
- FIRE SPRINKLER CONTRACTOR TO PROVIDE DEFERRED SUBMITTAL FOR FIRE SPRINKLER SYSTEM. SUBMITTAL TO INCLUDE HYDRAULIC CALCULATIONS AND SPRINKLER DRAWINGS SEALED BY A QUALIFIED DESIGN PROFESSIONAL LICENSED BY THE STATE.

FIRE RATED PENETRATION NOTES

- THIS BUILDING CONTAINS FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL PLANS FOR LOCATIONS.
- A UL LISTED FIRESTOP SYSTEM SHALL BE INSTALLED AT EACH PENETRATION OF A HORIZONTAL OR VERTICAL RATED ASSEMBLY IN ACCORDANCE WITH ASTM E814 OR UL 1479.
- EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR HIS PENETRATIONS THRU RATED ASSEMBLIES.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING A CATALOG OF ALL UL LISTED FIRESTOP ASSEMBLIES.

REFERENCED CODES IN EFFECT

2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL PLUMBING CODE
2015 INTERNATIONAL FUEL GAS CODE
2015 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRIC CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL RESIDENTIAL CODE

SHEET INDEX

Sheet Number	Sheet Title
MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET
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M102	SECOND FLOOR HVAC PLAN
M501	HVAC DETAILS
M601	HVAC SCHEDULES
EP101	BASEMENT & FIRST FLOOR POWER PLAN
EP102	SECOND FLOOR POWER PLAN
EL101	BASEMENT & FIRST FLOOR LIGHTING PLAN
EL102	SECOND FLOOR LIGHTING PLAN
E501	ELECTRICAL DETAILS & SCHEDULES
E601	ELECTRICAL SCHEDULES
E602	ELECTRICAL SCHEDULES
PS101	BASEMENT & FIRST FLOOR SANITARY SEWER PLAN
PS102	SECOND FLOOR SANITARY SEWER PLAN
PW101	BASEMENT & FIRST FLOOR WATER & GAS PLAN
PW102	SECOND FLOOR WATER & GAS PLAN
P501	PLUMBING DETAILS & SCHEDULES
UP-1-ACC	1-BEDROOM-ACCESSIBLE UNIT PLAN
UP-S-A	STUDIO-A UNIT PLAN
UP-S-B	STUDIO-B UNIT PLAN
UP-1-A	1-BEDROOM-A UNIT PLAN
UP-1-B	1-BEDROOM-B UNIT PLAN
UP-1-C	1-BEDROOM-C UNIT PLAN
UP-1-D	1-BEDROOM-D UNIT PLAN
UP-1-E	1-BEDROOM-E UNIT PLAN
UP-1-F	1-BEDROOM-F UNIT PLAN
UP-1-G	1-BEDROOM-G UNIT PLAN
UP-1-H	1-BEDROOM-H UNIT PLAN
UP-1-I	1-BEDROOM-I UNIT PLAN
UP-1-J	1-BEDROOM-J UNIT PLAN
UP-2-A	2-BEDROOM-A UNIT PLAN
UP-2-B	2-BEDROOM-B UNIT PLAN
UP-2-C	2-BEDROOM-C UNIT PLAN
UP-2-E	2-BEDROOM-E UNIT PLAN
UP-2-F	2-BEDROOM-F UNIT PLAN
UP-2-G	2-BEDROOM-G UNIT PLAN

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments

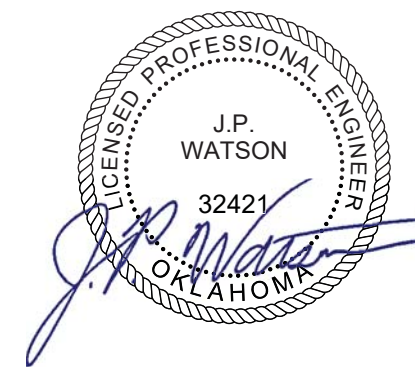
1537 NE 24th Street
Oklahoma City, OK, 73111

SHEET TITLE

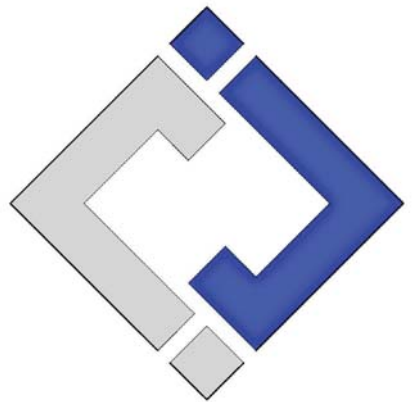
MECHANICAL
ELECTRICAL
PLUMBING COVER
SHEET

SHEET NUMBER

MEP1



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ROOF PLAN SYMBOL LEGEND

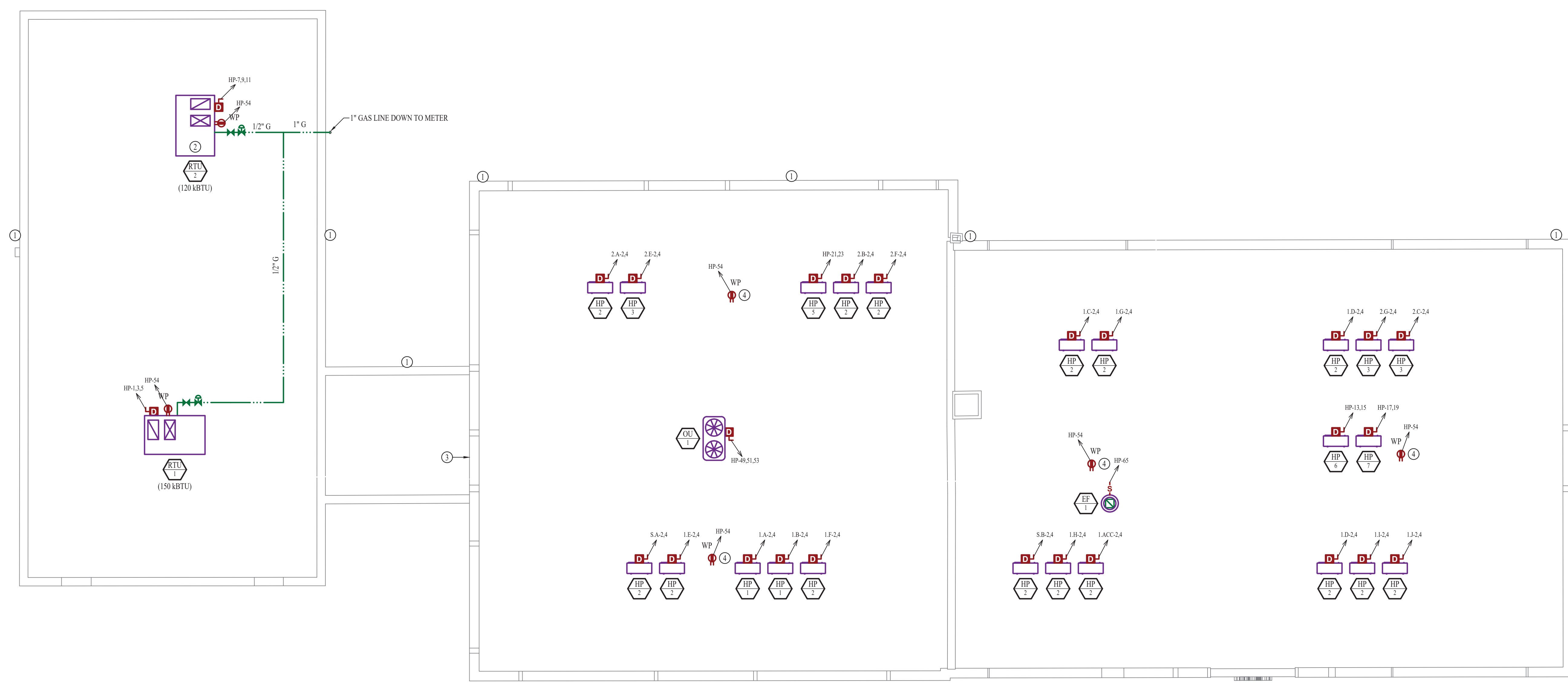
- GAS LINE
- VALVE
- PRESSURE REGULATOR (FROM 2PSI TO 11"-7" W.C.)
- DISCONNECT

ROOF PLAN GENERAL NOTES:

1. SEE SHEET E501 AND M501 FOR MORE ELECTRICAL AND HVAC NOTES, SCHEDULES, AND DETAILS.
2. ALL ROOFTOP EQUIPMENT TO BE LOCATED AT MINIMUM OF 10 FT AWAY FROM ROOF EDGE.
3. TAG ALL HEAT PUMPS WITH APARTMENT NUMBER SERVED.

ROOF PLAN KEY NOTES:

- ① EXISTING SCUPPER LOCATION TO REMAIN AND BE REUSED. COORDINATE DOWNSPOUT ROUTING WITH CIVIL ENGINEER
- ② FIELD VERIFY CONDITION OF EXISTING ROOF CURB. REUSE EXISTING ROOF CURB AND OPENING IF IN ADEQUATE WORKING CONDITION.
- ③ INTAKE LOUVER LOCATION. SEE SHEET M102 FOR EXACT SIZE.
- ④ PEDESTAL MOUNT RECEPTACLE.



ROOF PLAN
 SCALE: 1/8" = 1'-0"

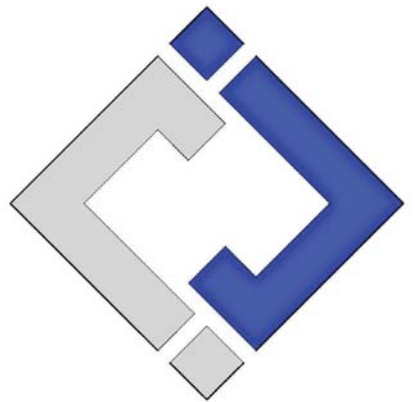
Mechanical - Electrical - Plumbing Design Drawings for
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SHEET TITLE
ROOF PLAN

SHEET NUMBER
MEP2



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SHEET TITLE

**BASEMENT & FIRST
 FLOOR HVAC PLAN**

SHEET NUMBER

M101

HVAC PLAN SYMBOL LEGEND

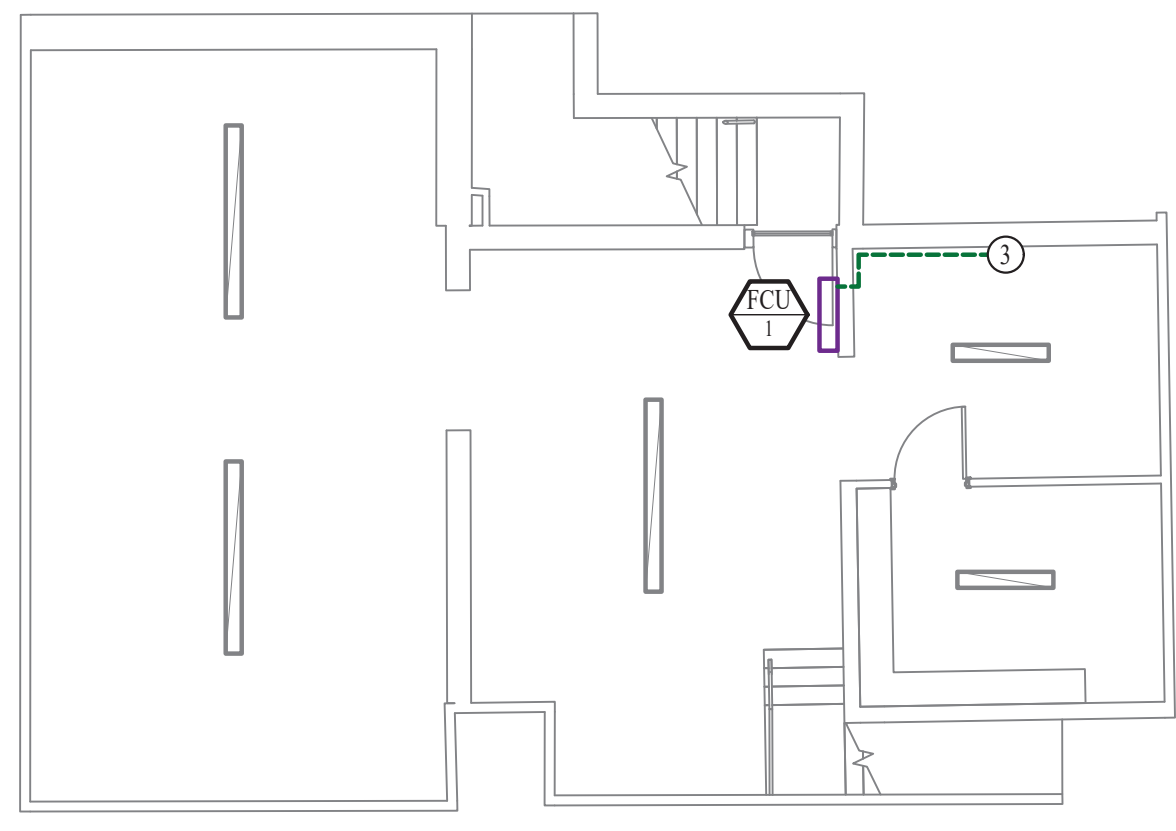
- | | | | |
|--|--|--|---|
| | EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE) | | SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE") |
| | EQUIPMENT REFERENCE NUMBER | | RETURN DIFFUSER |
| | DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE) | | BALANCE DAMPER |
| | CUBIC FEET PER MINUTE (CFM) / FACE SIZE | | MOTORIZED DAMPER |
| | SUPPLY DUCTWORK | | CEILING RADIATION DAMPER |
| | RETURN DUCTWORK | | FIRE RATED DAMPER |
| | EXHAUST DUCTWORK | | SMOKE DAMPER |
| | OUTSIDE AIR DUCTWORK | | THERMOSTAT |
| | FLEX DUCT | | CO2 DETECTOR |
| | CONDENSATION LINE | | RETURN DUCT SMOKE DETECTOR
WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL
TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER
LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120) |
| | TIE INTO EXISTING | | |

HVAC PLAN GENERAL NOTES:

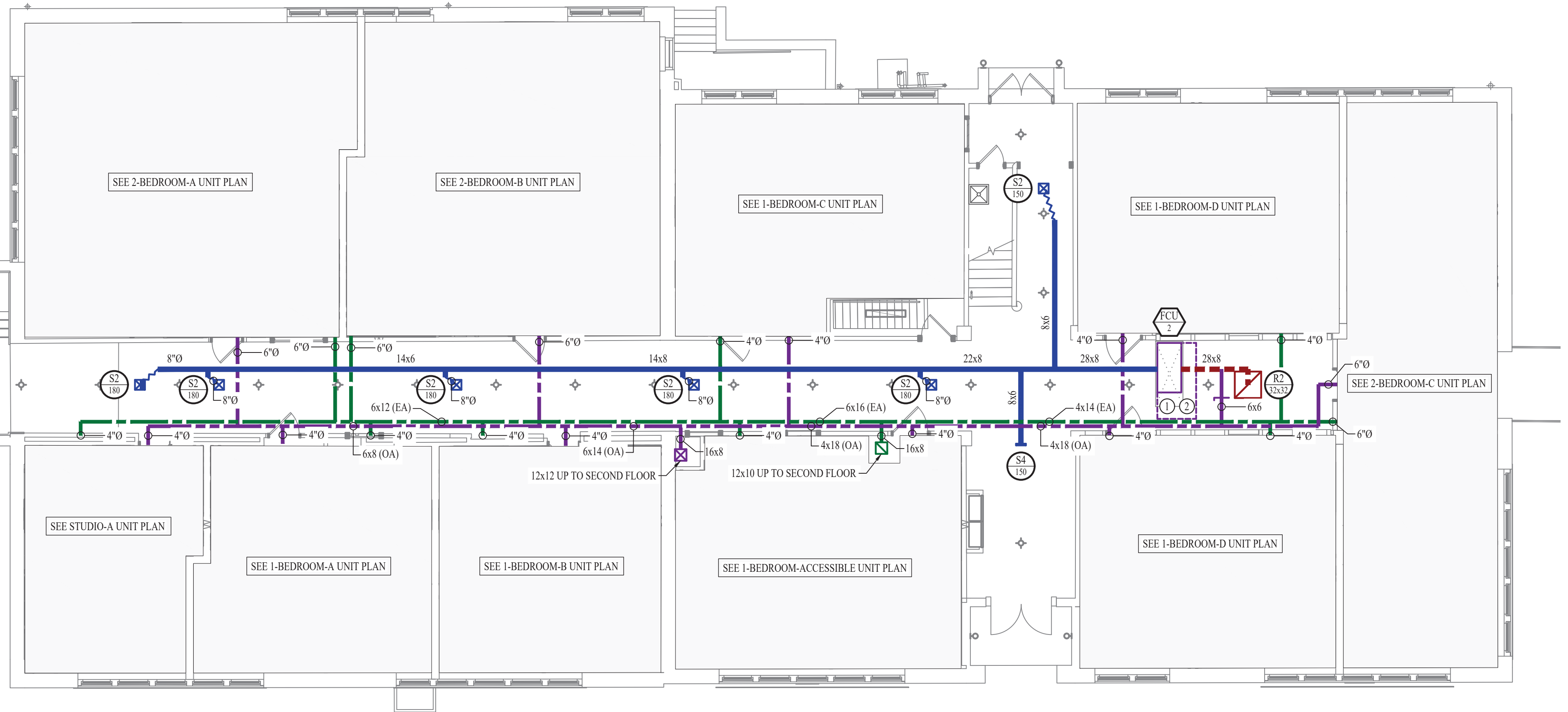
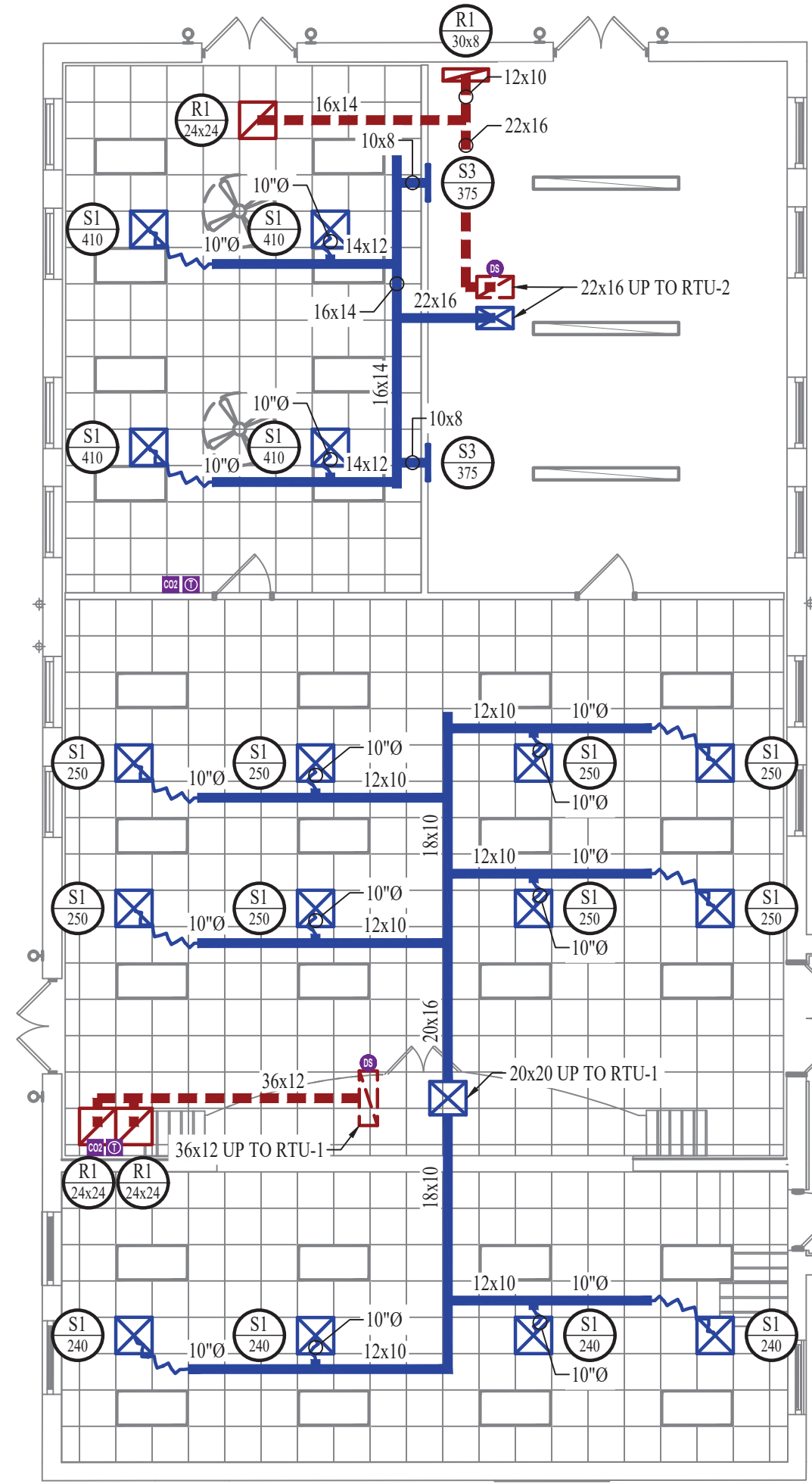
- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.

HVAC PLAN KEY NOTES:

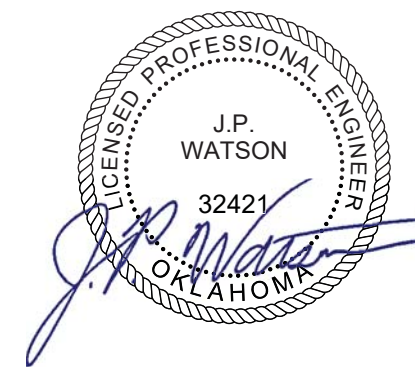
- PLUMBING CONTRACTOR TO PROVIDE HUB DRAIN FOR CONDENSATE LINE. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
- INSTALL ACCESS PANEL PER MANUFACTURE REQUIREMENTS.
- TERMINATE CONDENSATE LINE IN FLOOR DRAIN AT THIS LOCATION. PROVIDE 1" AIR GAP.



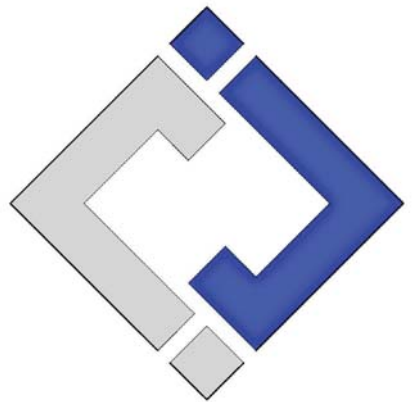
BASEMENT HVAC PLAN
 SCALE: 1/8" = 1'-0"



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



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HVAC PLAN SYMBOL LEGEND

- | | | | |
|--|--|--|---|
| | EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE) | | SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE") |
| | EQUIPMENT REFERENCE NUMBER | | RETURN DIFFUSER |
| | DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE) | | BALANCE DAMPER |
| | CUBIC FEET PER MINUTE (CFM) / FACE SIZE | | MOTORIZED DAMPER |
| | SUPPLY DUCTWORK | | CEILING RADIATION DAMPER |
| | RETURN DUCTWORK | | FIRE RATED DAMPER |
| | EXHAUST DUCTWORK | | SMOKE DAMPER |
| | OUTSIDE AIR DUCTWORK | | THERMOSTAT |
| | FLEX DUCT | | CO2 DETECTOR |
| | CONDENSATION LINE | | RETURN DUCT SMOKE DETECTOR
WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120) |
| | TIE INTO EXISTING | | |

HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.

HVAC PLAN KEY NOTES:

- LOUVER THROUGH EXTERIOR WALL AT THIS LOCATION.
- 10kW DUCT HEATER.
- DOAS BRANCH CONTROLLER LOCATION.
- INSTALL ACCESS PANEL PER MANUFACTURE REQUIREMENTS.
- PLUMBING CONTRACTOR TO PROVIDE HUB DRAIN FOR CONDENSATE LINE. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.

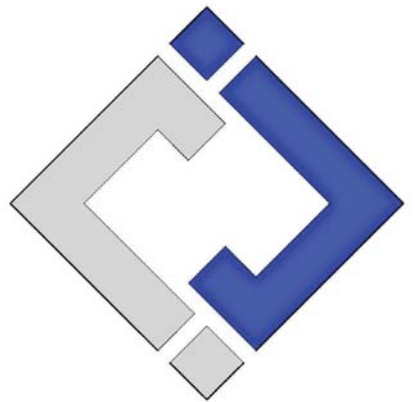


SECOND FLOOR HVAC PLAN
 SCALE: 1/8" = 1'-0"

Mechanical - Electrical - Plumbing Design Drawings for
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SHEET TITLE
SECOND FLOOR HVAC PLAN

SHEET NUMBER
M102

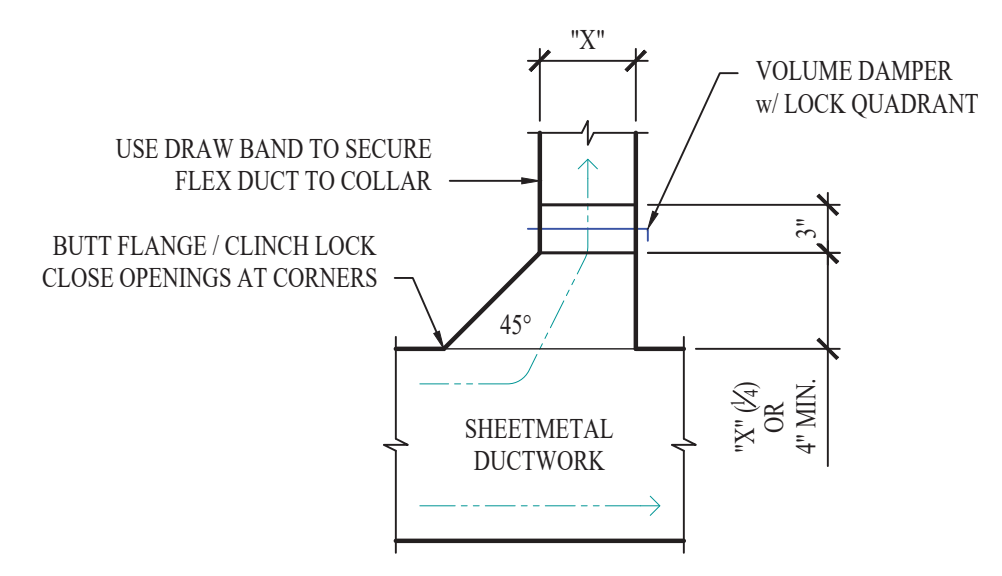


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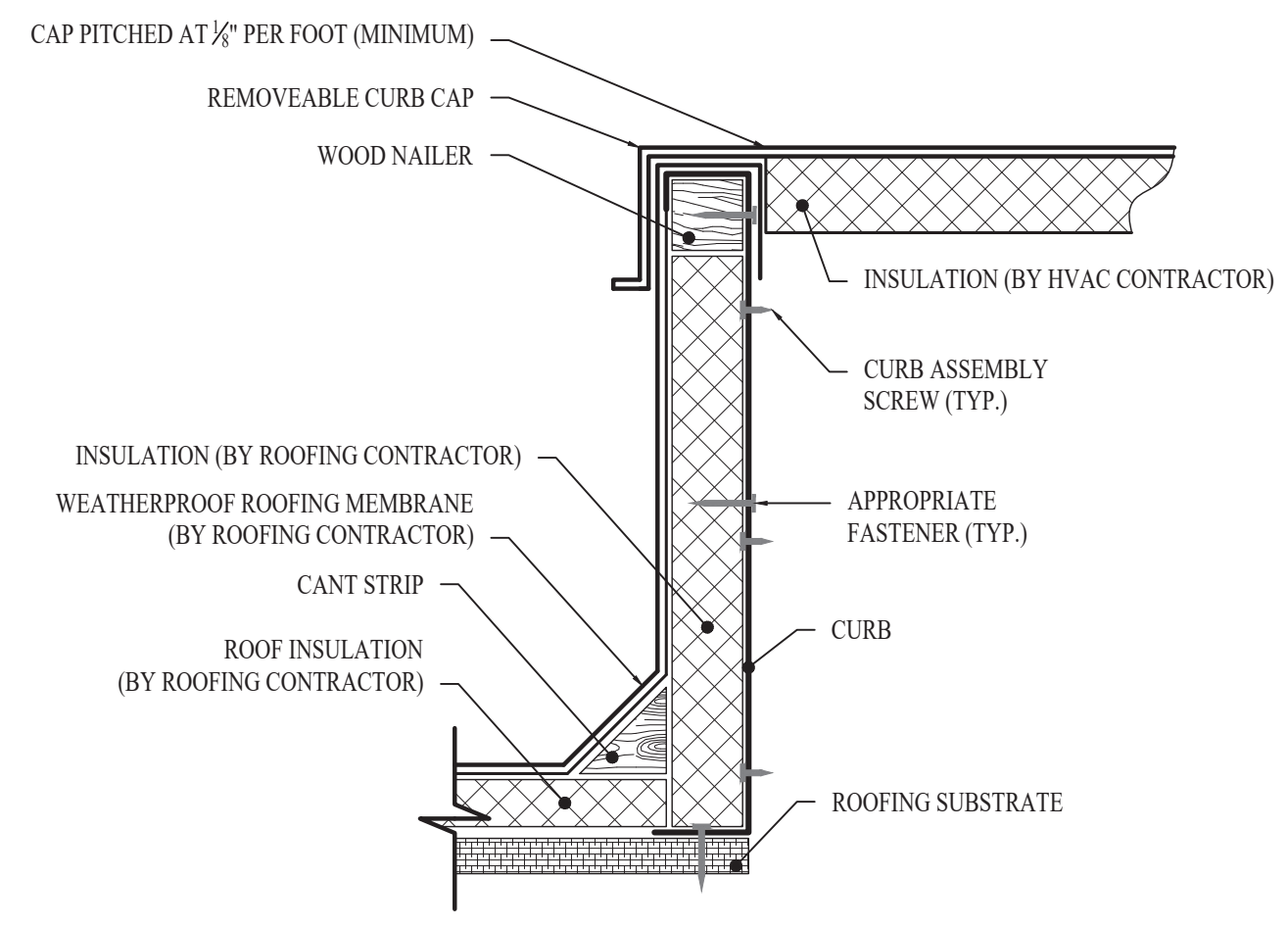
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J2 PROJECT No:	J20395
J2 DESIGN:	KEL

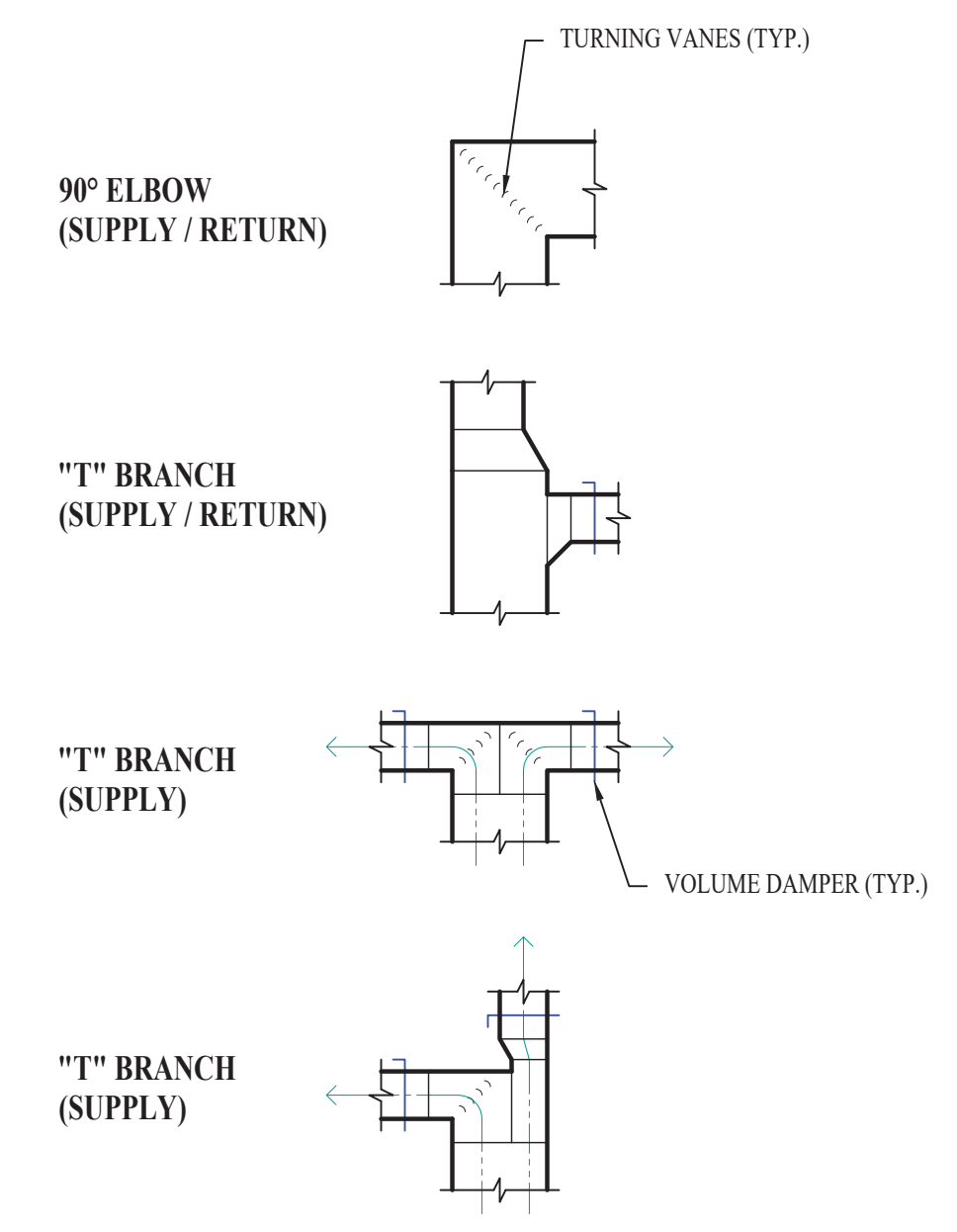
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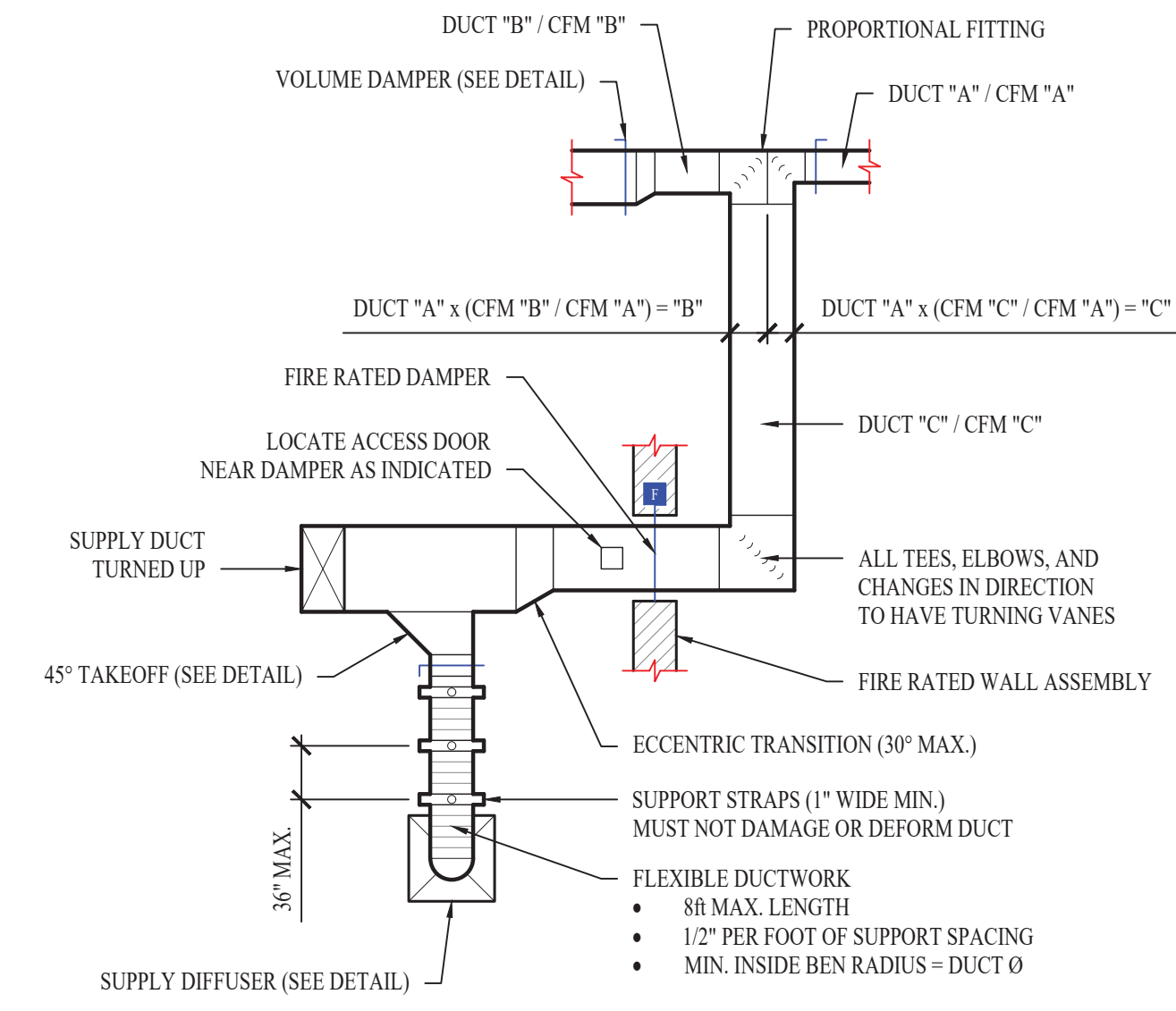
TYPICAL 45° TAKEOFF DETAIL



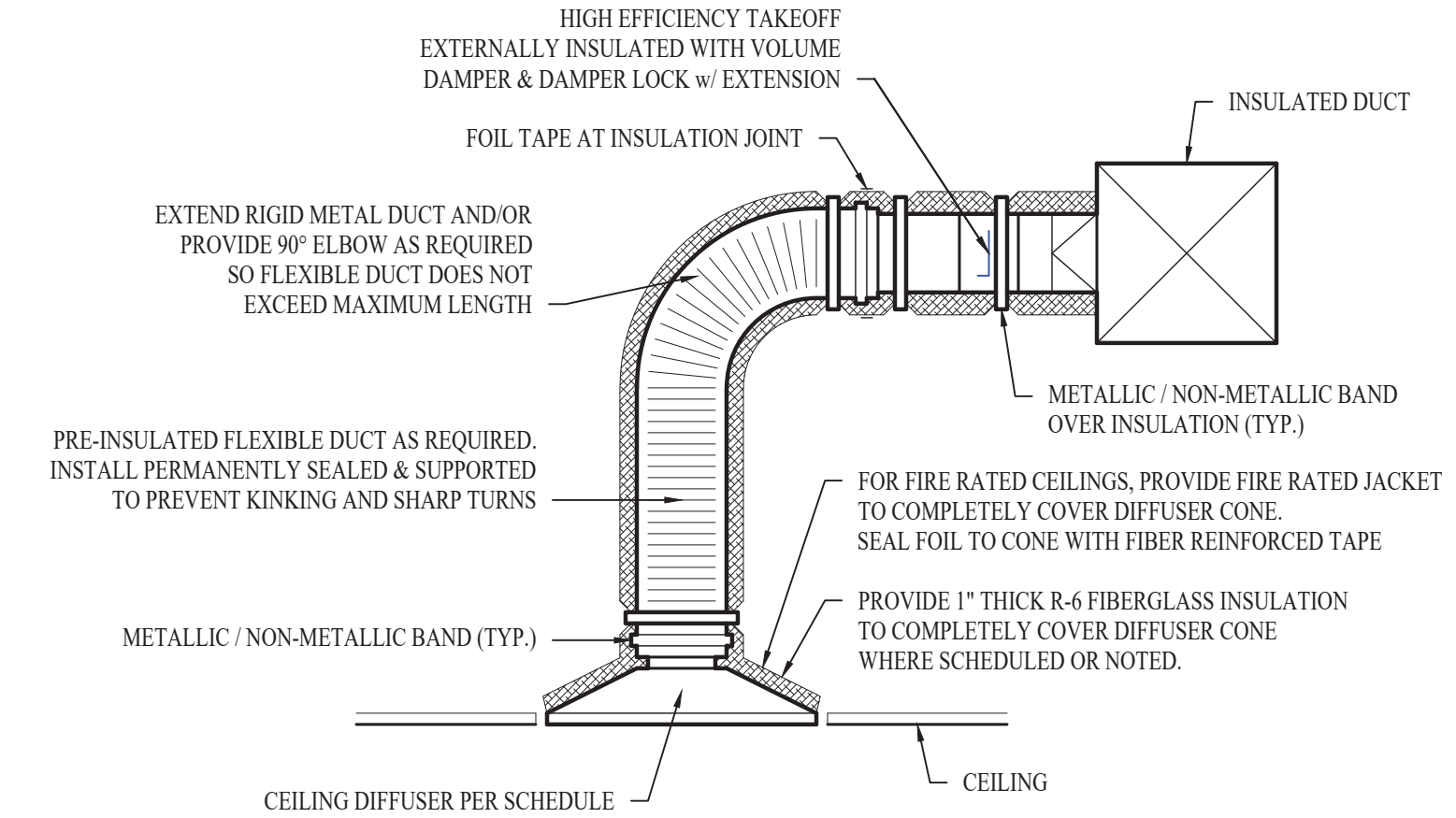
CURB DETAIL



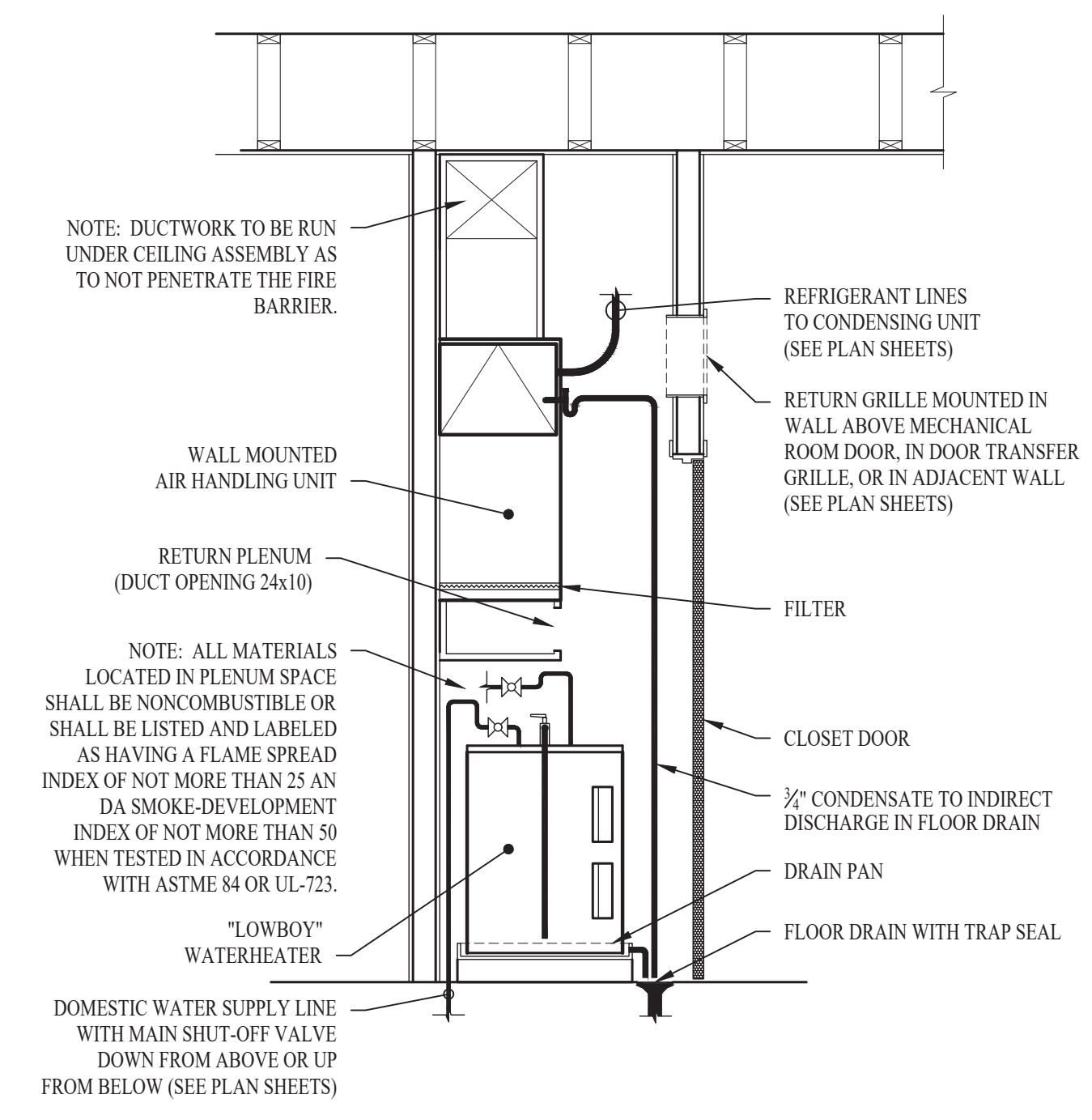
TYPICAL DUCTWORK FITTINGS DETAIL



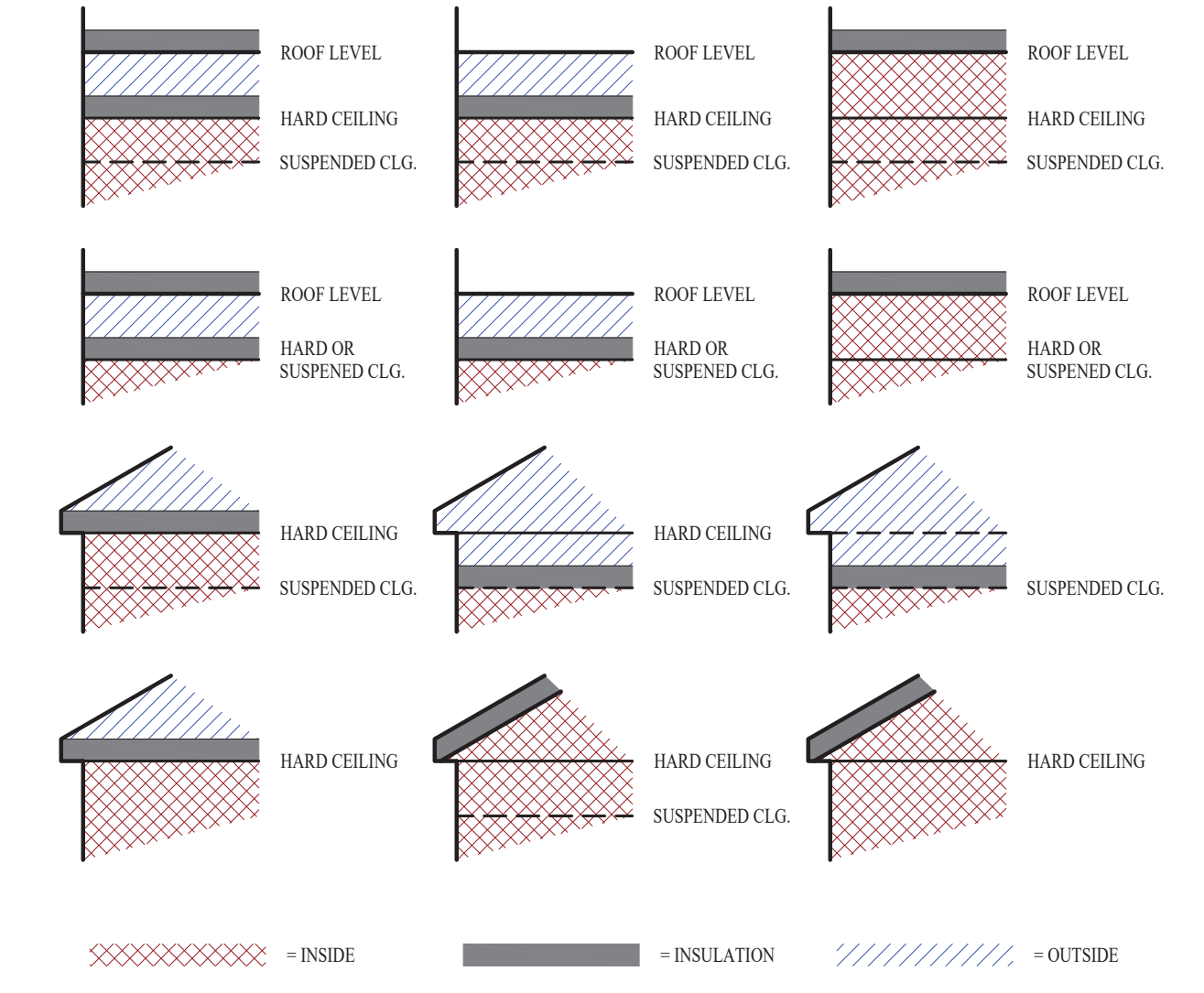
TYPICAL DUCTWORK DETAIL



TYPICAL LAY-IN DIFFUSER DETAIL



STACKED WATER HEATER / AHU DETAIL



DUCT INSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS		DUCT OUTSIDE THERMAL ENVELOPE INSULATION REQUIREMENTS	
RECTANGULAR		RECTANGULAR	
• SUPPLY =	1\"/>		

TYPICAL BUILDING INTERIOR DUCT INSULATION DIAGRAM

Mechanical - Electrical - Plumbing Design Drawings for
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SHEET TITLE

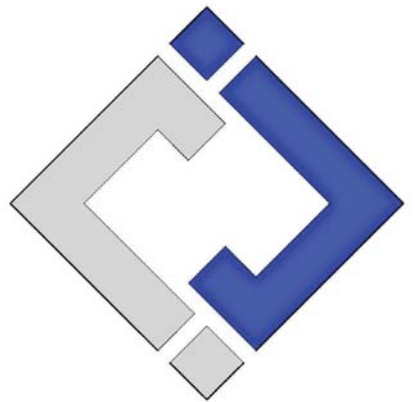
HVAC DETAILS

SHEET NUMBER

M501



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Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE

HVAC
SCHEDULES

SHEET NUMBER

M601

HVAC SPECIFICATIONS

1. EQUIPMENT
 - 1.1. ALL EQUIPMENT MUST PROVIDE THE PERFORMANCE SPECIFIED ON PLANS. WHERE SPECIFIC MAKES AND MODELS ARE INDICATED ON PLAN, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL.
 - 1.2. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO PURCHASE.
 - 1.3. ALL HORIZONTAL FURNACES WITH AC COILS TO BE EQUIPPED WITH CORROSION RESISTANT DRAIN PAN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.
 - 1.4. ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL GUARDS.
 - 1.5. REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.
2. DUCTWORK
 - 2.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
 - 2.2. 26 GA. MINIMUM UP TO 16" DUCT, 24 GA. UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 28", AND 18 GA. UP TO 36".
 - 2.3. TURNING VANES TO BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
 - 2.4. DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER.
 - 2.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
 - 2.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), THE BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
 - 2.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), THE BALANCE DAMPER IS TO BE LOCATED SO IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.
 - 2.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
3. INSULATION
 - 3.1. DUCTWORK
 - 3.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
 - 3.1.2. INTERNAL DUCT LINER TO BE EQUAL TO JOHNS MANVILLE LINACOUSTIC R-300.
 - 3.1.3. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO JOHNS MANVILLE MICROLITE WITH FSK JACKET.
 - 3.2. REFRIGERANT PIPING
 - 3.2.1. REFRIGERANT PIPING SHALL BE TYPE ACR OR TYPE L COPPER.
 - 3.2.2. SPLIT SYSTEM (SUCTION LINE ONLY) - 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO ARMAFLEX AP).
 - 3.3. VRV/VRF SYSTEMS (BOTH SUCTION AND HOT GAS LINES) 1/2" EPDM (EQUAL TO AEROFLEX AEROCEL AC) WITHIN CONDITIONED SPACES & 2" EPDM (EQUAL TO AEROFLEX AEROCEL AC) IN UNCONDITIONED SPACES, AND WITH BANDED ALUMINUM SHIELDING IN EXTERIOR SPACES.
 - 3.4. CONDENSATE PIPING
 - 3.4.1. SPLIT SYSTEMS - WHERE CONDENSATE PIPING IS LOCATED IN UNCONDITIONED SPACE, INSULATE WITH 1/2" ELASTOMERIC. NO INSULATION REQUIRED IN CONDITIONED SPACES.
 - 3.4.2. VRV/VRF - INSULATE WITH 1/2" ELASTOMERIC.
4. WORKMANSHIP
 - 4.1. COORDINATE WITH OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO EQUIPMENT.
 - 4.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
 - 4.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB.
 - 4.4. ROOFTOP MOUNTED RTUS TO BE INSTALLED ON CURBS PER MANUFACTURER'S INSTRUCTIONS.
 - 4.5. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.
5. TESTING AND BALANCING
 - 5.1. ALL SYSTEMS MUST BE BALANCED TO WITHIN 10% OF VALUES INDICATED ON PLAN.
 - 5.2. HVAC CONTRACTOR TO PROVIDE WRITTEN BALANCE REPORT INCLUDING FLOW VALUES INDICATED ON PLAN AND ACTUAL MEASURED VALUES.
 - 5.3. THIRD PARTY CERTIFIED TEST AND BALANCE NOT REQUIRED.

AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES
E1	EXHAUST	PRICE	530	SEE PLANS	WHITE	1,2
I1	OA	POTTORFF	ED	SEE PLANS	EXTERIOR	1
O1	FRESH AIR	PRICE	520	84	WHITE	1,2
R1	RETURN	PRICE	80	SEE PLANS	WHITE	1
R2	RETURN	PRICE	530	SEE PLANS	WHITE	1
S1	SUPPLY	PRICE	SPD	2424	WHITE	1,2
S2	SUPPLY	PRICE	SPD	1242	WHITE	1,2,3
S3	SUPPLY	PRICE	520	128	WHITE	1,2
S4	SUPPLY	PRICE	520	124	WHITE	1,2
S5	SUPPLY	PRICE	520	84	WHITE	1,2

NOTES:

1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION
2. SEE PLANS FOR AIR FLOW
3. WITH DRYWALL MOUNTING KIT

FCU & HP SCHEDULE													
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW (CFM)	HEATING (IA: 70DB, OA: 5DB)		COOLING (IA: 80 DB/67 WB, OA: 95 DB)		ELECTRICAL			NOTES
						TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER)	VOLTS/PH	MCA	OCF	
FCU-1	WALL MOUNT	1.0	WALL MOUNT	300	0	14.6	9.9	12.0	19	POWERED THRU HP-5			1,3
HP-5	HEAT PUMP	1.0	-	-	-	14.6	9.9	12.0	19	208/1	10	20	2,3
FCU-2	HORIZONTAL-DUCTED	3.0	HORIZONTAL	1200	120	38.0	30.2	36.0	17.1	POWERED THRU HP-6			1,4
HP-6	HEAT PUMP	3.0	-	-	-	38.0	30.2	36.0	17.1	208/1	24	40	2,4
FCU-3	HORIZONTAL-DUCTED	3.0	HORIZONTAL	1200	105	38.0	30.2	36.0	17.1	POWERED THRU HP-7			1,4
HP-7	HEAT PUMP	3.0	-	-	-	38.0	30.2	36.0	17.1	208/1	24	40	2,4

NOTES:

1. INSTALL MANUFACTURER PROVIDED THERMOSTAT CAPABLE OF 7-DAY PROGRAMING. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. WITH FACTORY HAIL GUARD.
3. EQUAL TO TRANE MITSUBISHI NTXWPH12B112AA & NTXSPB12B112AA.
4. EQUAL TO TRANE MITSUBISHI TP5ADA0561AA70A & TRUZH0361KA00NA.

AHU & HP SCHEDULE													
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW (CFM)	HEATING (IA: 70DB, OA: 5DB)		COOLING (IA: 80 DB/67 WB, OA: 95 DB)		ELECTRICAL			NOTES
						TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER)	VOLTS/PH	MCA	OCF	
AHU-1	AIR HANDLING UNIT	1.0	VERTICAL	400	15.0	15.0	11.0	12.0	19	POWERED THRU HP-1			1,3
HP-1	HEAT PUMP	1.0	-	-	-	15.0	11.0	12.0	19	208/1	14	30	2,3
AHU-2	AIR HANDLING UNIT	1.5	VERTICAL	575	21.6	21.6	16.7	18.0	18.4	POWERED THRU HP-2			1,4
HP-2	HEAT PUMP	1.5	-	-	-	21.6	16.7	18.0	18.4	208/1	17	35	2,4
AHU-3	AIR HANDLING UNIT	2.5	VERTICAL	875	32.0	32.0	23.4	30.0	18	POWERED THRU HP-3			1,5
HP-3	HEAT PUMP	2.5	-	-	-	32.0	23.4	30.0	18	208/1	24	40	2,5

NOTES:

1. INSTALL MANUFACTURER PROVIDED THERMOSTAT CAPABLE OF 7-DAY PROGRAMING. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. WITH FACTORY HAIL GUARD.
3. EQUAL TO TRANE MITSUBISHI NTXAMT12A112AA & NTXSKH12A112AA.
4. EQUAL TO TRANE MITSUBISHI NTXAMT18A112AA & NTXSKH18A112AA.
5. EQUAL TO TRANE MITSUBISHI TPVA0A0301AA70A & TRUZH0301KA00NA.

DOAS SCHEDULE													
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW MAX/MIN (CFM)	HEATING (IA: 70DB, OA: 5DB)		COOLING (IA: 55 DB/56 WB, OA: 95 DB)		ELECTRICAL			NOTES
						TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (EER)	VOLTS/PH	MCA	OCF	
DOA-1	FAN COIL UNIT	10.0	HORIZONTAL	1200	1200	41.4	45.5	117	11.7	208/1	4	15	1,2
OA-1	HEAT PUMP	10.0	-	-	-	41.4	45.5	117	11.7	208/3	45	50	2

NOTES:

1. INSTALL MANUFACTURER PROVIDED CONTROLLER. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. EQUAL TO TRANE MITSUBISHI TPEYPT20AR140A & TURYP120SAN40AN WITH BRANCH CONTROLLER TCMIG0106SJ11N4 AND (2) GREENHECK IDHE 10KW DUCT HEATERS.

RTU SCHEDULE														
TAG	EQUIPMENT DESCRIPTION	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW MAX/MIN (CFM)	GAS HEATING		COOLING (IA: 80 DB/67 WB, OA: 95 DB)		ELECTRICAL			NOTES	
						INPUT (KBTU)	OUTPUT (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN. EFFICIENCY	VOLTS / PHASE	MCA		OCF
RTU-1	ROOF TOP UNIT	7.5	DOWN FLOW	3000	500/120	150	120	73.8	94.8	11.2 EER/12.7 EER	208/3	39	50	1,2,3,4,5,6,7,8
RTU-2	ROOF TOP UNIT	6	DOWN FLOW	2400	365/105	120	96	53.2	75.0	11.2 EER/12.7 EER	208/3	35	50	1,2,3,4,5,6,7

NOTES:

1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE HONEYWELL THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
2. WITH FACTORY HAIL GUARD.
3. WITH FACTORY INSTALLED DISCONNECT.
4. ECONOMIZER WITH BAROMETRIC RELIEF SIZED AT 100% OF FLOW. CONTROL TO BE ADJUSTABLE FIXED POINT SET AT 65°F. ECONOMIZER TO BE IECC COMPLIANT WITH FAULT DETECTION AND NOTIFICATION.
5. WITH HOT GAS REHEAT/DEHUMIDIFICATION OPTION.
6. WITH SMOKE DETECTOR IN RETURN AIR DUCT TO SHUT DOWN UNIT AND SEND SIGNAL TO BUILDING FIRE ALARM SYSTEM UPON DETECTION OF SMOKE. IF NO BUILDING FIRE ALARM SYSTEM IS PRESENT, PROVIDE ALARM DEVICE IN OCCUPIED AREA.
7. PROVIDE CO2 SENSOR MODULATE BETWEEN MAX AND MIN OA AMOUNTS INDICATED.
8. WITH DUAL COMPRESSOR.

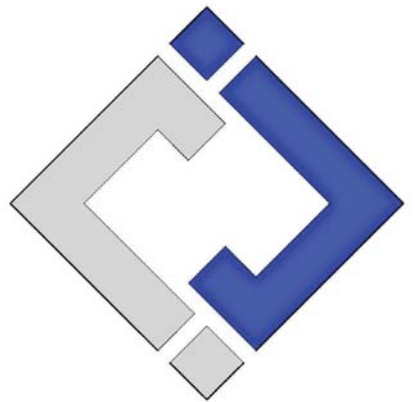
EXHAUST FAN SCHEDULE											
TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		ELECTRICAL			PHYSICAL		NOTES
				CFM	S.P.	VOLT/PH	MCA	OCF	DIM	WEIGHT	
EF-1	ROOF MOUNTED	SOLAR & PAULI	SDBD12QR11AS	1200	0.5"	120/1	10	20	28x28x28	105	1,2

NOTES:

1. WITH BACKDRAFT DAMPER
2. WITH SPEED CONTROLLER



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 2401 Bernadette Drive, Suite 201
 Columbia, Missouri 65203
 573 - 234 - 4492 phone
 www.j-squaredeng.com

J2 PROJECT No: J20395
 J2 DESIGN: KEL

ISSUE TITLE DATE
 PERMIT SET 10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
BASEMENT & FIRST FLOOR POWER PLAN

SHEET NUMBER
EP101

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- "AW" = ABOVE WINDOW RECEPTACLE
- "AC" = ABOVE CEILING RECEPTACLE
- "EX" = EXISTING RECEPTACLE TO REMAIN
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- USB OUTLET
- DATA / PHONE JACK
BOX WITH 1" CONDUIT & PULL STRING) UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- WIRELESS ACCESS POINT, CEILING MOUNTED
- FLOOR RECEPTACLE
- FLOOR DATA
- DISCONNECT
- FUSED DISCONNECT
- FUSED SWITCH
- STARTER / DISCONNECT
- TIE INTO EXISTING

SECURITY PLAN SYMBOL LEGEND

- READER
- BURGLAR PANEL
- WALL MOUNT CAMERA
(ARROW INDICATES VIEW DIRECTION)
- CEILING MOUNT CAMERA
(ARROW INDICATES VIEW DIRECTION)

FIRE ALARM PLAN SYMBOL LEGEND

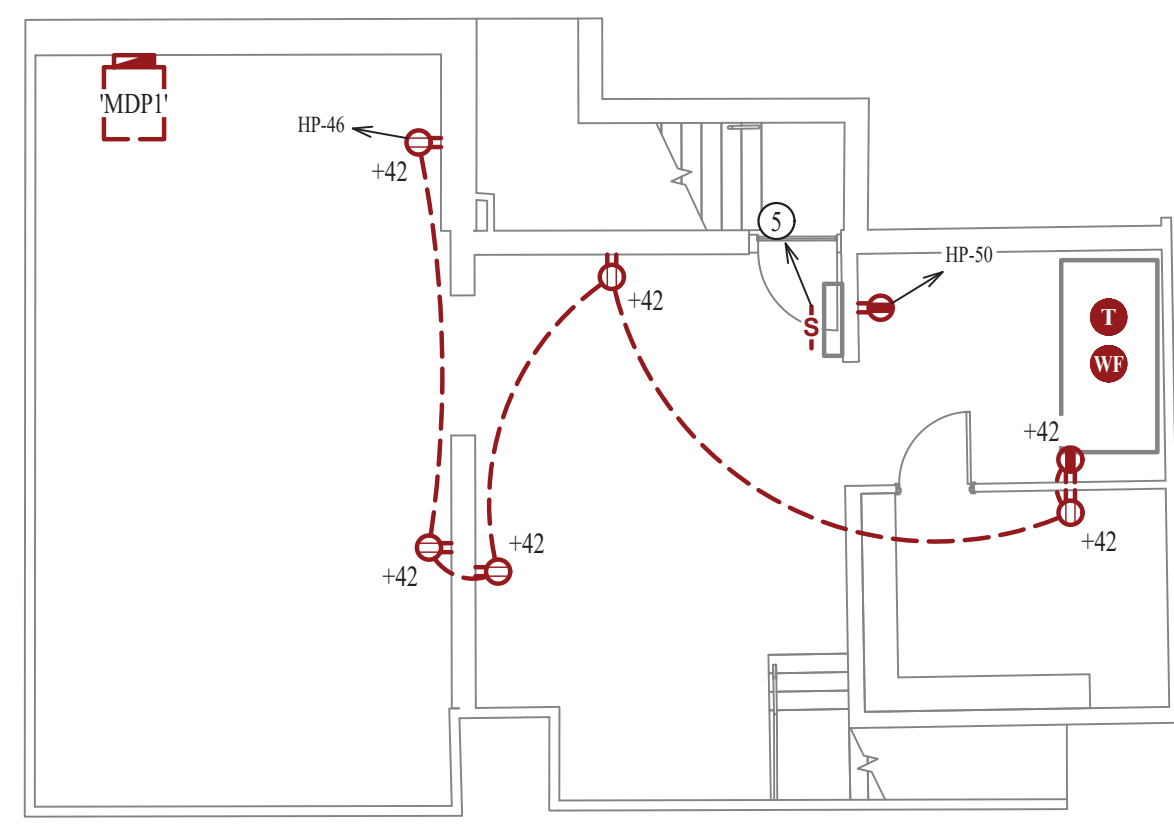
- MANUAL PULL STATION
- SMOKE DETECTOR
- HORN STROBE - WALL MOUNT
- TAMPER SWITCH
- WATER FLOW SWITCH
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR

POWER PLAN GENERAL NOTES:

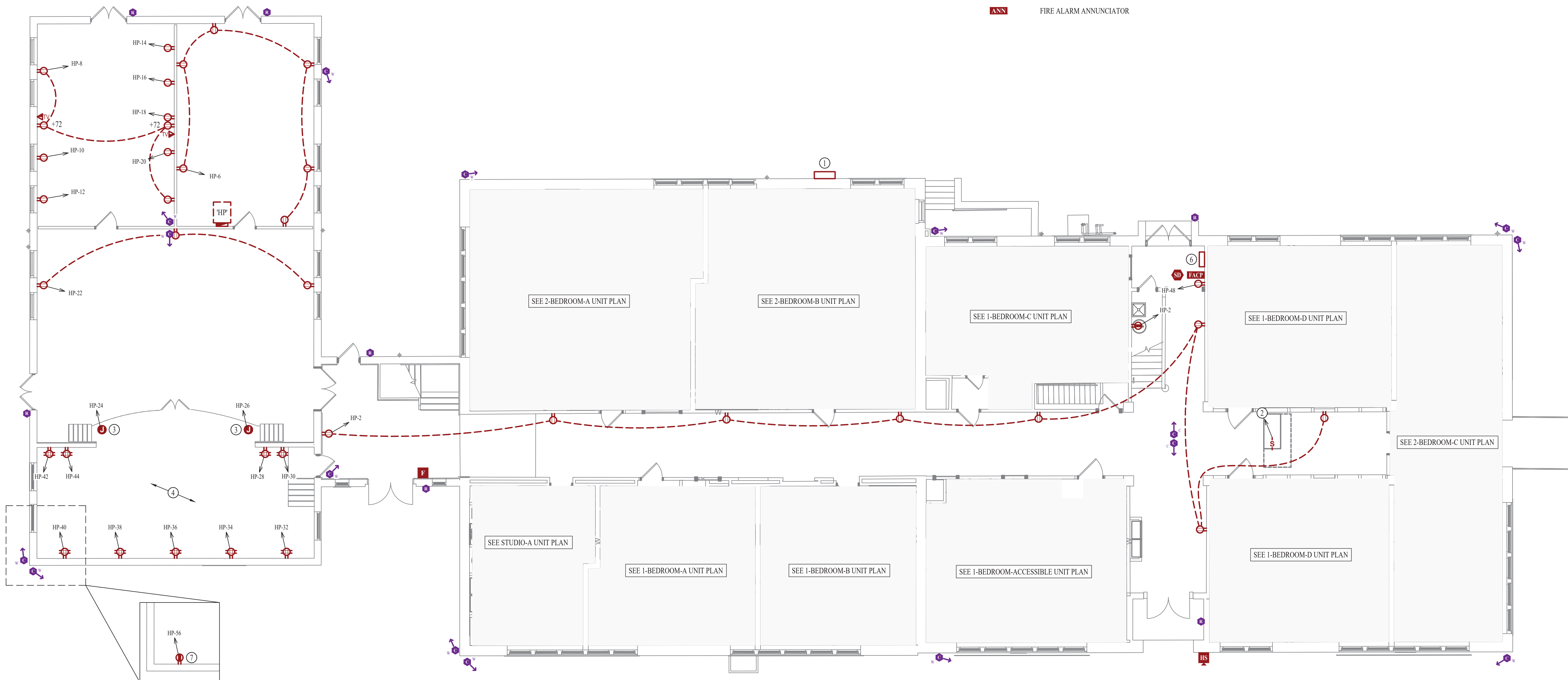
1. SEE SHEET E501, E601, & E602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
2. COORDINATE SECURITY CAMERA QUANTITIES & LOCATIONS WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.
3. COORDINATE ACCESS CONTROL REQUIREMENTS WITH OWNER AND DOOR HARDWARE PROVIDER PRIOR TO PURCHASE AND INSTALLATION.

POWER PLAN KEY NOTES:

- ① AUTOMATIC TRANSFER SWITCH. SEE POWER RISER DETAIL FOR MORE INFORMATION.
- ② POWERED THRU ASSOCIATED OUTDOOR UNIT (HP-6).
- ③ COORDINATE LOCATION AND POWER REQUIREMENTS FOR PA SYSTEM WITH OWNER PRIOR TO INSTALLATION.
- ④ COORDINATE STAGE POWER REQUIREMENTS AND RECEPTACLE LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- ⑤ POWERED THRU ASSOCIATED OUTDOOR UNIT (HP-5).
- ⑥ GENERATOR ANNUNCIATOR LOCATION.
- ⑦ POWER FOR SUMP PUMP UNDER STAGE.





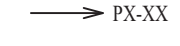





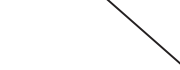












BASEMENT POWER PLAN
 SCALE: 1/8" = 1'-0"



FIRST FLOOR POWER PLAN
 SCALE: 1/8" = 1'-0"

UNDER STAGE POWER PLAN
 SCALE: 1/8" = 1'-0"

POWER PLAN SYMBOL LEGEND

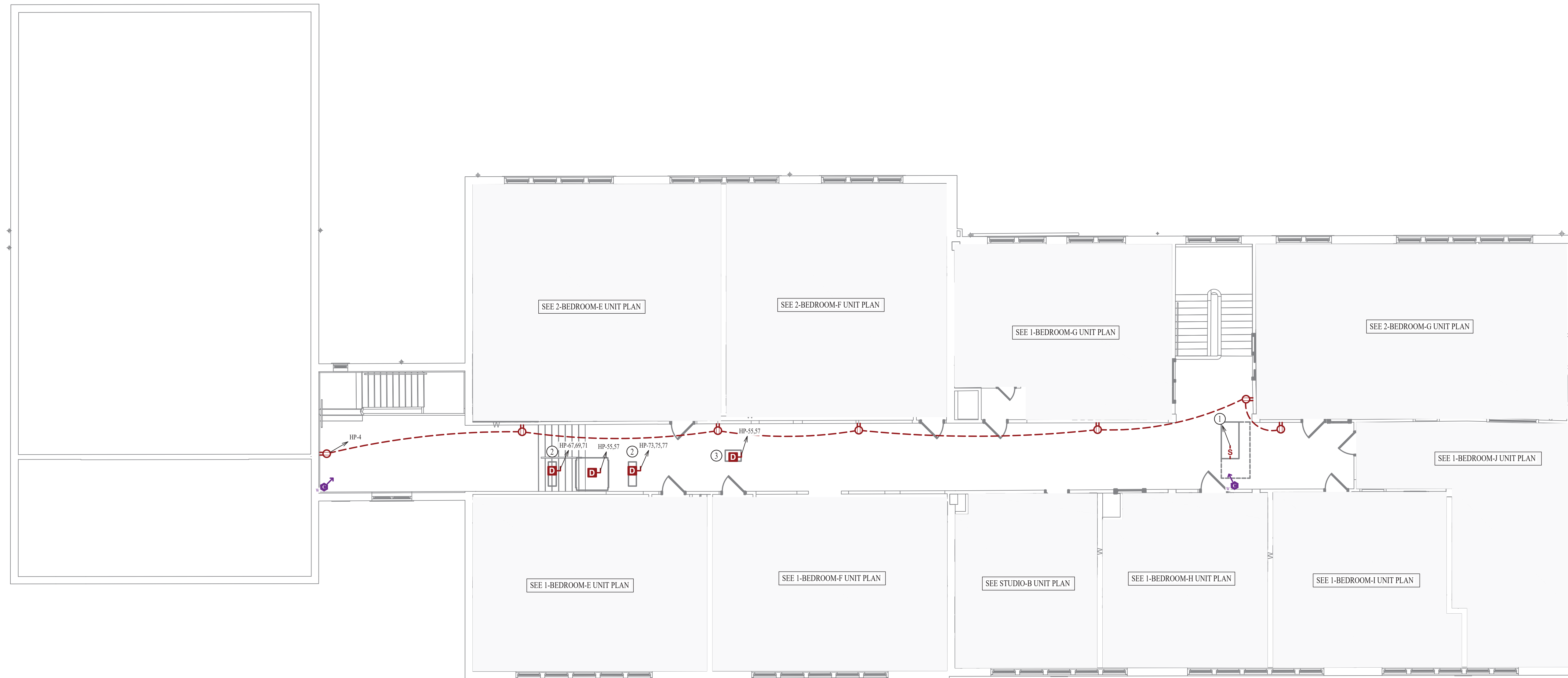
	CIRCUIT WIRING		DATA / PHONE JACK BOX WITH 1" CONDUIT & PULL STRING UP TO CEILING SPACE (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
	CIRCUIT TAG		WIRELESS ACCESS POINT, CEILING MOUNTED
	JUNCTION BOX		FLOOR RECEPTACLE
	RECEPTACLE INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)		FLOOR DATA
	*WP* = WEATHERPROOF OUTDOOR RECEPTACLE		DISCONNECT
	*AW* = ABOVE WINDOW RECEPTACLE		FUSED DISCONNECT
	*AC* = ABOVE CEILING RECEPTACLE		FUSED SWITCH
	*EX* = EXISTING RECEPTACLE TO REMAIN		STARTER / DISCONNECT
	GFCI DUPLEX CONVENIENCE RECEPTACLE		TIE INTO EXISTING
	208V RECEPTACLE		
	QUADPLEX CONVENIENCE RECEPTACLE		
	USB OUTLET		

POWER PLAN GENERAL NOTES:

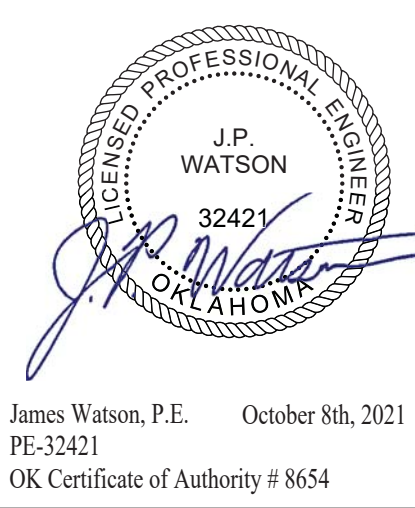
- SEE SHEET E501, E601, & E602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
- COORDINATE SECURITY CAMERA QUANTITIES & LOCATIONS WITH SECURITY CONTRACTOR PRIOR TO INSTALLATION.

POWER PLAN KEY NOTES:

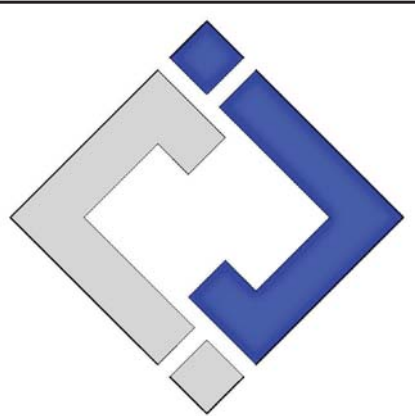
- POWERED THRU ASSOCIATED OUTDOOR UNIT (HP-7).
- 10kW DUCT HEATER PROVIDED BY HVAC CONTRACTOR.
- DOAS BRANCH CONTROLLER POWER.




SECOND FLOOR POWER PLAN
 SCALE: 1/8" = 1'-0"



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ISSUE TITLE	DATE
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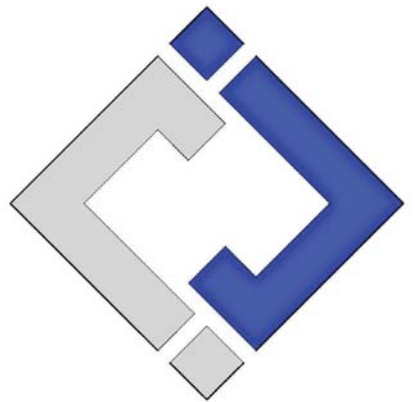
Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
SECOND FLOOR POWER PLAN

SHEET NUMBER
EP102



James Watson, P.E. October 8th, 2021
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Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
BASEMENT & FIRST FLOOR LIGHTING PLAN

SHEET NUMBER
EL101

LIGHTING PLAN SYMBOL LEGEND

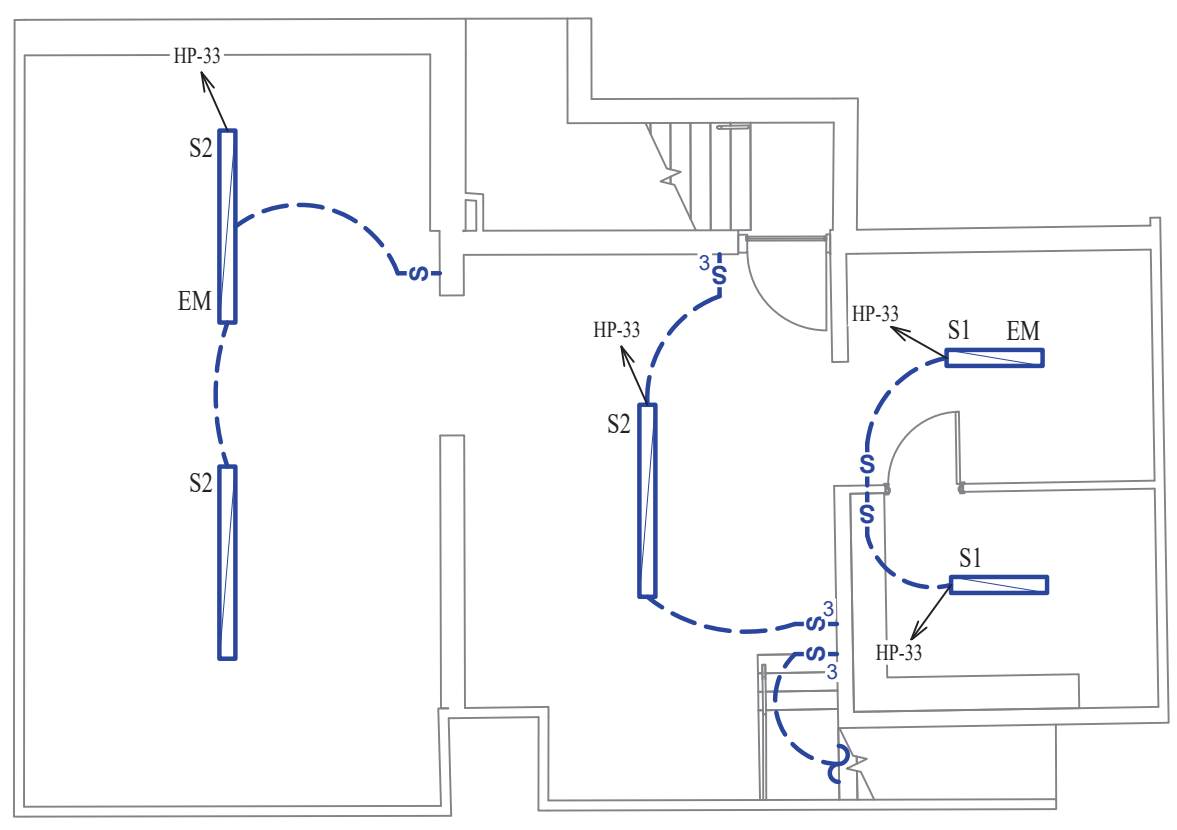
- X1 ← "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- ← LIGHTING FIXTURE
- EM ← "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL ← "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - O = OCCUPANCY SENSOR
 - V = VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
- SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
- SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- PP ← POWER PACK

LIGHTING PLAN GENERAL NOTES:

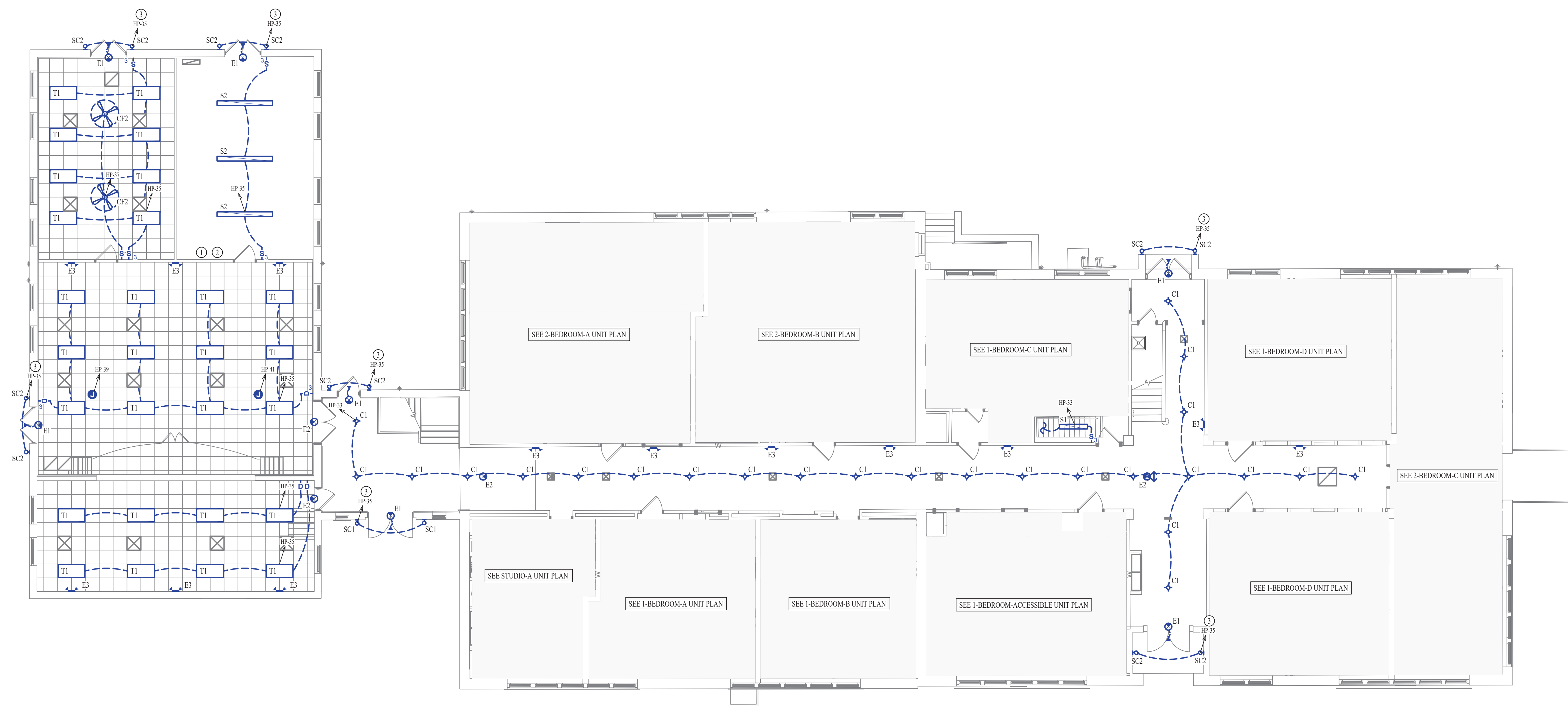
1. SEE SHEET E501, E601, & E602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.

LIGHTING PLAN KEY NOTES:

- ① ASTRONOMICAL TIMER CONTROLLING OUTDOOR POLE LIGHTS. EQUAL TO INTERMATIC DT104D89
- ② ASTRONOMICAL TIMER CONTROLLING SOUTH ENTRY SCONCE LIGHTS. EQUAL TO INTERMATIC ST01.
- ③ CONTROLLED BY ASTRONOMICAL TIMER LOCATED IN STORAGE ROOM. SEE KEY NOTE 2.



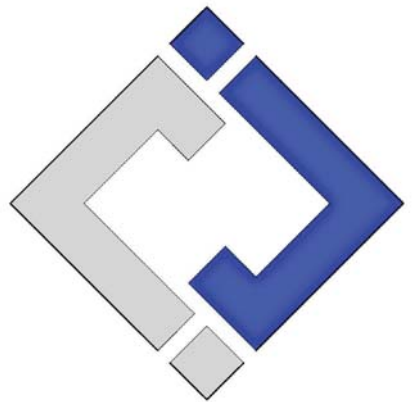
BASEMENT LIGHTING PLAN
 SCALE: 1/8" = 1'-0"



FIRST FLOOR LIGHTING PLAN
 SCALE: 1/8" = 1'-0"



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 www.j-squaredeng.com

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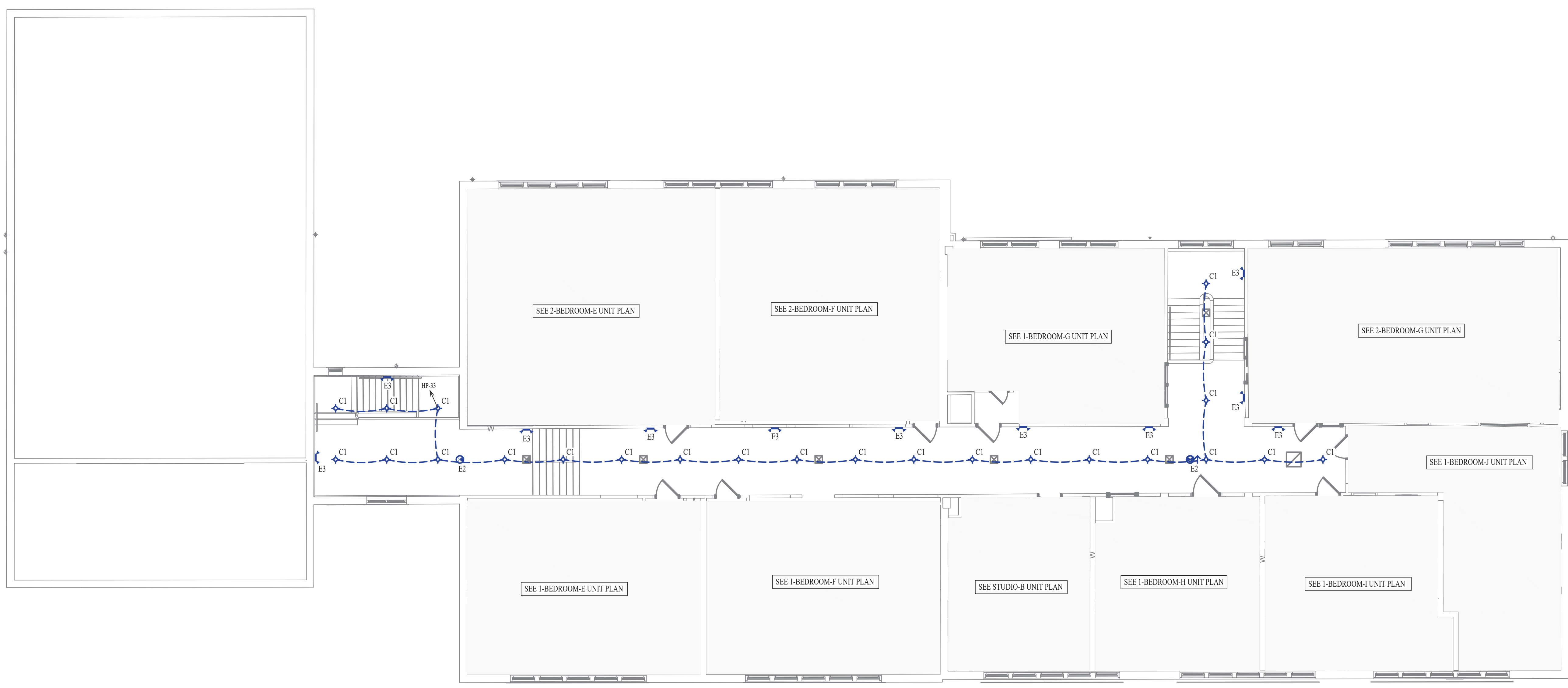
ISSUE TITLE	DATE
PERMIT SET	10-08-2021

LIGHTING PLAN SYMBOL LEGEND

- X1 — "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
LIGHTING FIXTURE
- EM — "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL — "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- SWITCH (WALL MOUNTED)
SWITCH TYPE:
 - 3 = 3-WAY
 - 4 = 4-WAY
 - O = OCCUPANCY SENSOR
 - V = VACANCY SENSOR
 - M = MOMENTARY SWITCH
 - SS = SCENE SWITCH
- DIMMER SWITCH (WALL MOUNTED)
SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- SWITCH (CEILING MOUNTED)
SWITCH TYPE:
 - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- PP — POWER PACK

LIGHTING PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.



SECOND FLOOR LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

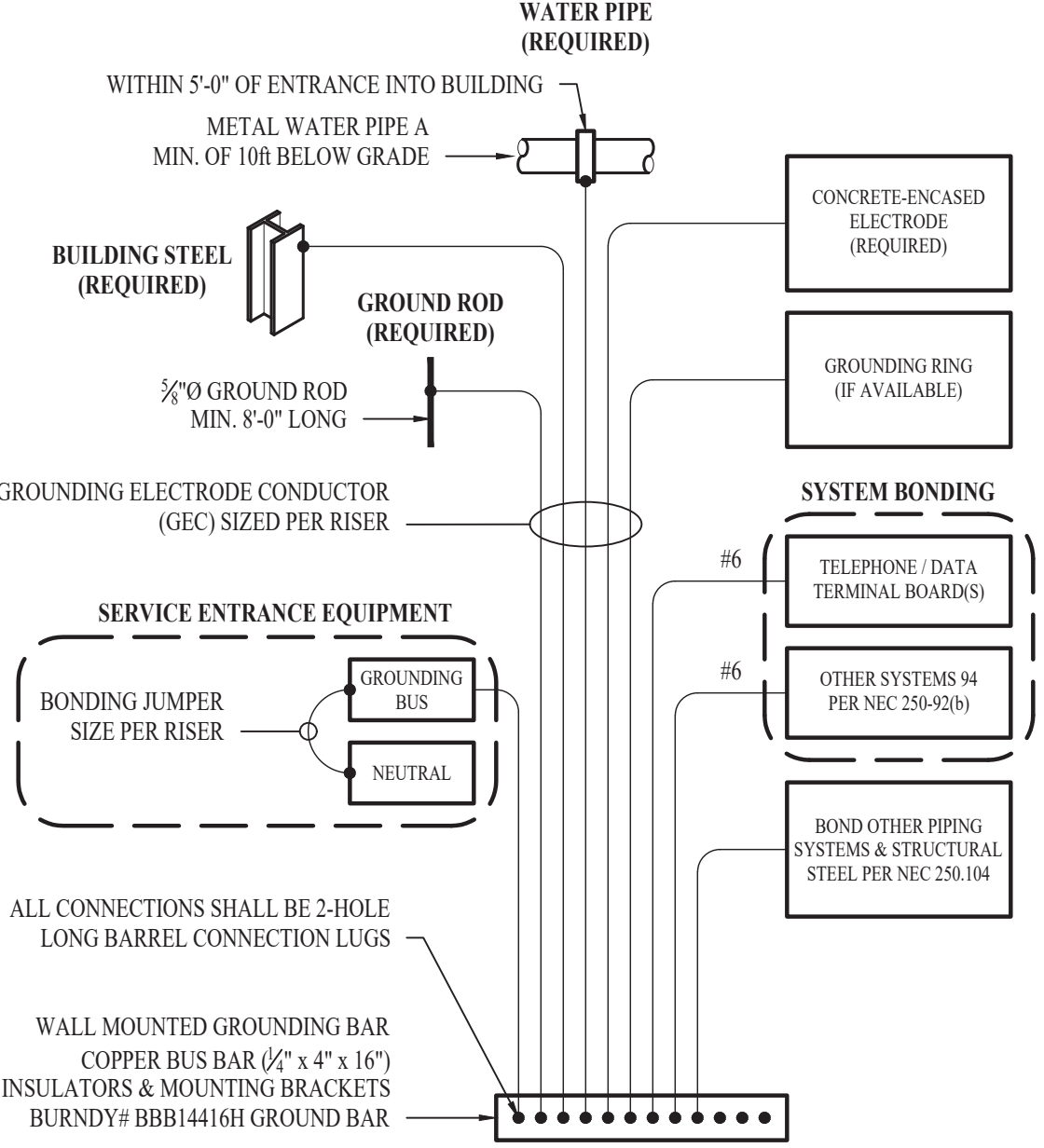
Mechanical - Electrical - Plumbing Design Drawings for
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 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
SECOND FLOOR LIGHTING PLAN

SHEET NUMBER
EL102

LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
C1	HALO	HLC6-09-930-1E-WH1	6" ROUND LED CAN	SURFACE	925	3000	80	120	16	
CF1	HUNTER	59269	46" CEILING FAN WITH LIGHTS	SURFACE	1600	3000	80	120	40	(2) A19 TYPE SCREW IN LED BULB
CF2	HUNTER	59264	52" CEILING FAN	SURFACE	-	-	-	120	37	
E1	SURE LITES	APCH7R WITH A PWR2	INTERIOR EXIT LIGHT WITH EXTERIOR REMOTE HEAD	CEILING				UNV	1	WITH RED LETTERS
E2	SURE LITES	APCH7R	INTERIOR EXIT LIGHT WITH HEADS	WALL / CEILING				UNV	1	WITH RED LETTERS
E3	SURE LITES	APLEL	EMERGENCY EGRESS LIGHT	WALL				UNV	1	MOUNT A 8" A.F.F.
S1	METALUX	4BCLED-LD4-40SL-F-UNV-1-835-CD1-U	4" LINEAR	WALL BRACKET	4000	3500	80	120	42	
S2	METALUX	8SLSTP8035DD-UNV	8" LINEAR	CHAIN HANG	8900	3500	80	120	75	HANG AT 12 FT A.F.F.
SC1	GENERATION LIGHTING	89193EN3-71	WALL SCONCE	WALL	800	4000	80	120	10	(1) A19 TYPE SCREW IN LED BULB
SC2	TECH LIGHTING	7000W VEX-940-4-Z-UNV	WALL SCONCE	WALL	550	4000	90	120	19	
T1	METALUX	24FSL2SCT3	2x4 LED FLAT PANEL	ACT GRID	4500	3500	80	120	40	
V1	RP LIGHTING	4904-IBN-3	LED VANTY	WALL	1750	3000	80	120	24	

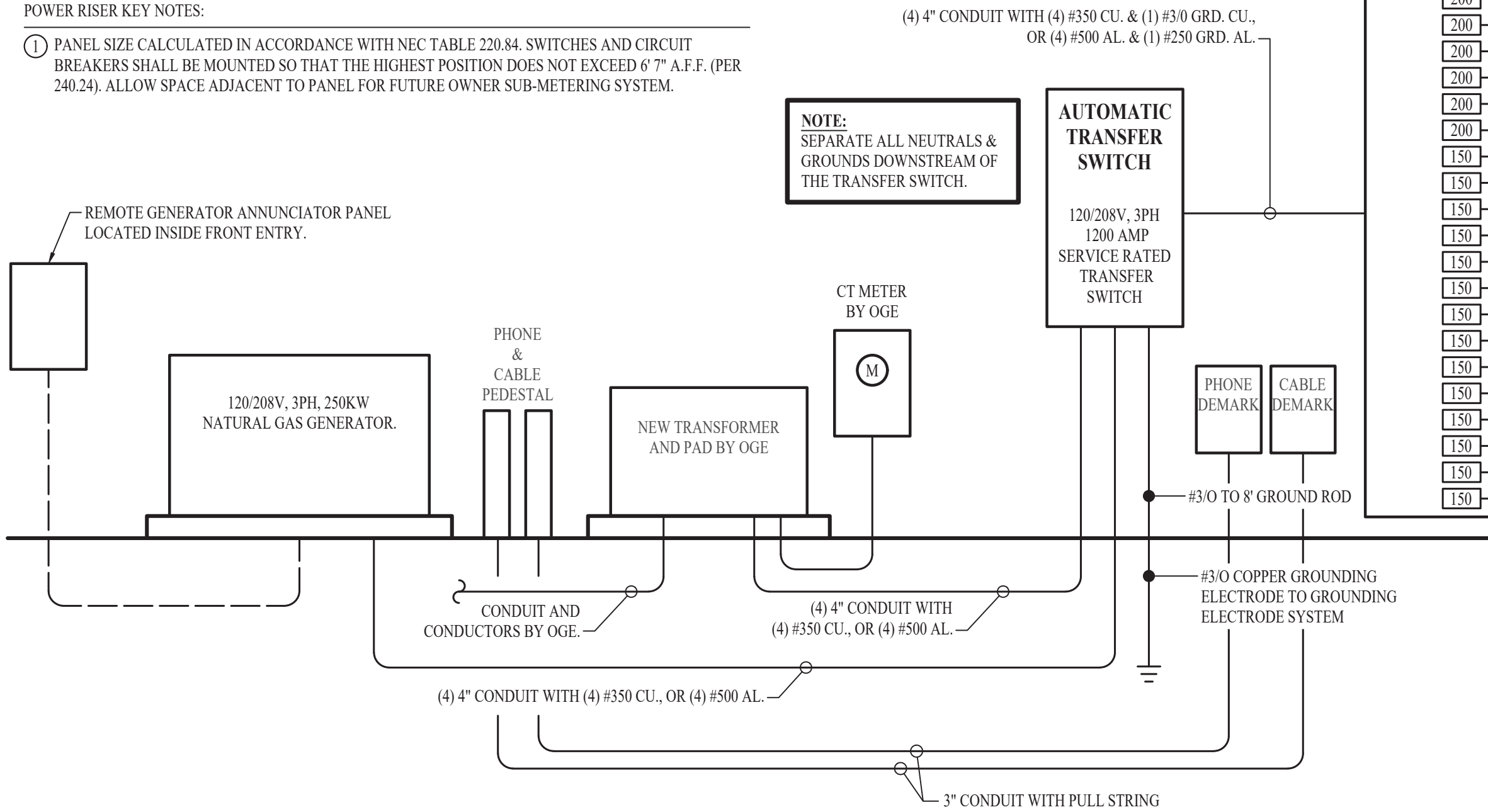
NOTES:
1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION



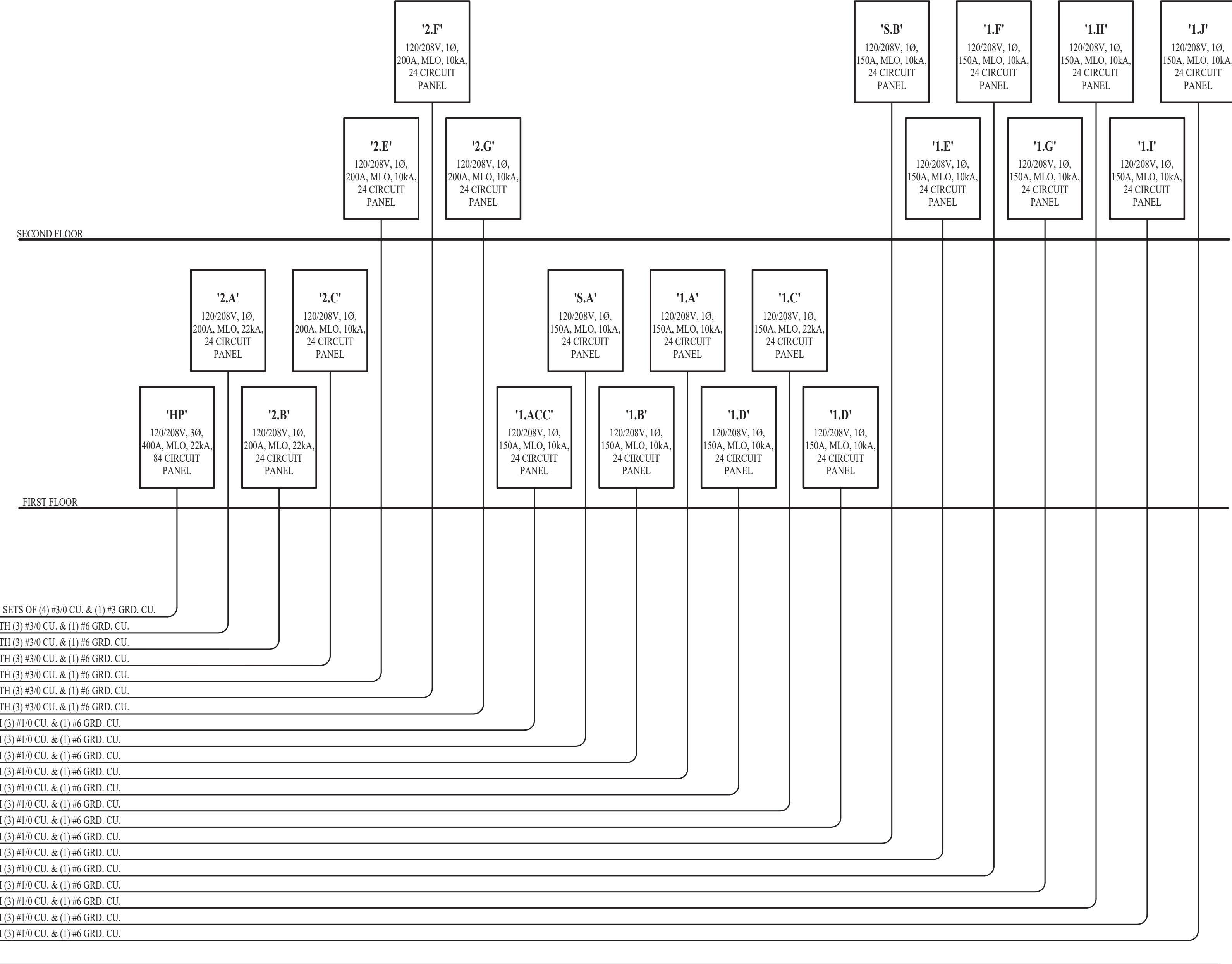
TYPICAL GROUNDING & BONDING DETAIL

- POWER RISER GENERAL NOTES:
- REFER TO SHEET EPI01 FOR ELECTRICAL SERVICE LOCATION.
 - CONTRACTOR TO FIELD VERIFY FINAL EQUIPMENT LOCATIONS AND PERFORM AIC RATING CALCULATIONS FOR ALL PANELS AND SWITCH GEAR.
 - CURRENT AIC RATINGS SHOWN ON PLANS USE THE ASSUMED INFORMATION PROVIDED BELOW:
 - 500KVA, 120/208V, 3Ø, Z-4.5%, PF=100%
 - PAD MOUNT TRANSFORMER LOCATED 75FT. AWAY FROM AUTOMATIC TRANSFER SWITCH.

- POWER RISER KEY NOTES:
- PANEL SIZE CALCULATED IN ACCORDANCE WITH NEC TABLE 220.84. SWITCHES AND CIRCUIT BREAKERS SHALL BE MOUNTED SO THAT THE HIGHEST POSITION DOES NOT EXCEED 6' 7" A.F.F. (PER 240.24). ALLOW SPACE ADJACENT TO PANEL FOR FUTURE OWNER SUB-METERING SYSTEM.



POWER RISER



ELECTRICAL SPECIFICATIONS

- GENERAL
 - THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
 - ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
 - PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
 - PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
- MATERIALS
 - CONDUIT & CONDUCTORS
 - ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED OTHERWISE.
 - ABOVE GRADE CONDUCTORS SHALL BE THIN COPPER. BELOW GRADE CONDUCTORS SHALL BE XHHW-2.
 - MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
 - RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER.
 - IN APPLICATIONS OTHER THAN THOSE LISTED IN 2.1.4, EMT OR MC CABLE IS ACCEPTABLE. WHERE CONDUCTORS ARE PROTECTED FROM DAMAGE, ENCLOSED IN BUILDING MATERIALS, AND CONSTRUCTION IS OF A PERMITTED TYPE, NM CABLE MAY BE USED.
 - DEVICES
 - CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
 - DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMP, EQUAL TO LEVITON CR20.
 - TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CS120-2
 - DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR COMPATIBILITY.
- EMERGENCY LIGHTING
 - THE BRANCH CIRCUIT FEEDING THE EMERGENCY FIXTURE SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.



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Marcus Garvey Harmony Apartments

1537 NE 24th Street
Oklahoma City, OK, 73111

SHEET TITLE

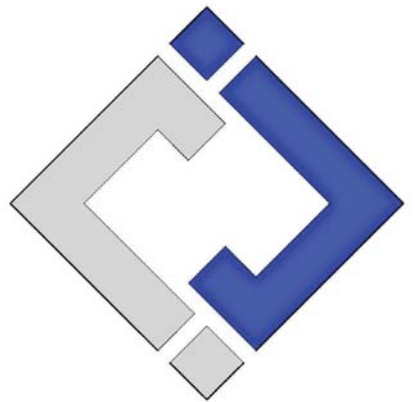
ELECTRICAL
DETAILS &
SCHEDULES

SHEET NUMBER

E501



James Watson, P.E. October 8th, 2021
 PE-32421
 OK Certificate of Authority # 8654



**J-SQUARED
 ENGINEERING**

2401 Bernadette Drive, Suite 201
 Columbia, Missouri 65203
 573 - 234 - 4492 phone
 www.j-squaredeng.com

J2 PROJECT No: J20395

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 10-08-2021

MAIN DISTRIBUTION PANEL (MDP) SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		1200A MLO		SURFACE		30,000		PHASE "A" LOAD	1990.1
NEMA RATING: 1								PHASE "B" LOAD	1868.2
								PHASE "C" LOAD	1879.4
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
-	PANEL HP	400-3	340.1	A	122.5	150-2	UNIT PANEL '1.F'	-	
-	-	-	334.7	B	110	-	-	-	
-	-	-	329.4	C	121	150-2	UNIT PANEL '1.G'	-	
-	UNIT PANEL '1.ACC'	150-2	122.5	A	113	-	-	-	
-	-	-	111.5	B	122.5	150-2	UNIT PANEL '1.H'	-	
-	UNIT PANEL 'S.A'	150-2	122.5	C	110	-	-	-	
-	-	-	100	A	122.5	150-2	UNIT PANEL '1.I'	-	
-	UNIT PANEL 'S.B'	150-2	122.5	B	110	-	-	-	
-	-	-	100	C	122.5	150-2	UNIT PANEL '1.J'	-	
-	UNIT PANEL '1.A'	150-2	116.5	A	110	-	-	-	
-	-	-	108.5	B	122.5	200-2	UNIT PANEL '2.A'	-	
-	UNIT PANEL '1.B'	150-2	116.5	C	121.5	-	-	-	
-	-	-	108.5	A	122.5	200-2	UNIT PANEL '2.B'	-	
-	UNIT PANEL '1.C'	150-2	121	B	121.5	-	-	-	
-	-	-	113	C	129.5	200-2	UNIT PANEL '2.C'	-	
-	UNIT PANEL '1.D'	150-2	122.5	A	128.5	-	-	-	
-	-	-	110	B	129.5	200-2	UNIT PANEL '2.F'	-	
-	UNIT PANEL '1.D'	150-2	122.5	C	128.5	-	-	-	
-	-	-	110	A	122.5	200-2	UNIT PANEL '2.F'	-	
-	UNIT PANEL '1.E'	150-2	122.5	B	121.5	-	-	-	
-	-	-	110	C	132.5	200-2	UNIT PANEL '2.G'	-	
-	-	-	-	A	128.5	-	-	-	
-	-	-	-	B	-	-	-	-	
-	-	-	-	C	-	-	-	-	

NOTES:
 A: PANEL SHALL BE EQUAL TO SQUARE D "I-LINE" SERIES FOR 208V / "NP" SERIES FOR 480V
 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL '1.ACC' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		150A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD	122.5
NEMA RATING: 1								PHASE "B" LOAD	111.5
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	A	17	35-2	AIR HANDLING UNIT & HEAT PUMP (AHU-2 & HP-2)	2	
3	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	17	-	-	4	
5	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	10.5	A	20	30-2	CLOTHES DRYER	6	
7	SPARE	20-1	-	B	20	-	-	8	
9	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	30	50-2	OVEN / RANGE	10	
11	<i>KITCHEN / VENT HOOD</i>	<i>20-1</i>	3	B	30	-	-	12	
13	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	20	30-2	WATER HEATER	14	
15	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	20	-	-	16	
17	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A	-	20-1	SPARE	18	
19	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B	-	20-1	SPARE	20	
21	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	<i>20-1</i>	3	A	-	20-1	SPARE	22	
23	SPARE	20-1	-	B	-	20-1	SPARE	24	

NOTES:
 A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOME-LINE"
 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
 D: CIRCUITS SHOWN ABOVE IN **ITALICS** TEXT SHALL BE AFCI PROTECTED.

PANEL 'HP' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		400A MCB		SURFACE		22,000		PHASE "A" LOAD	340.1
NEMA RATING: 1								PHASE "B" LOAD	334.7
								PHASE "C" LOAD	329.4
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	RTU-1	100-3	78.8	A	12	20-1	FIRST FLOOR HALL / RECEP.TS.	2	
3	-	-	78.8	B	10.5	20-1	SECOND FLOOR HALL / RECEP.TS.	4	
5	-	-	78.8	C	9	20-1	STORAGE / RECEP.TS.	6	
7	RTU-2	50-3	31	A	6	20-1	FITNESS ROOM / RECEP.TS.	8	
9	-	-	31	B	5	20-1	FITNESS ROOM / TREADMILL	10	
11	-	-	31	C	5	20-1	FITNESS ROOM / TREADMILL	12	
13	FIRST FLOOR (HP-6 & FCU-2)	40-2	24	A	5	20-1	FITNESS ROOM / TREADMILL	14	
15	-	-	24	B	5	20-1	FITNESS ROOM / TREADMILL	16	
17	SECOND FLOOR (HP-7 & FCU-3)	40-2	24	C	5	20-1	FITNESS ROOM / TREADMILL	18	
19	-	-	24	A	5	20-1	FITNESS ROOM / TREADMILL	20	
21	BASEMENT FLOOR (HP-5 & FCU-1)	20-2	10	B	4.5	20-1	AUDITORIUM / RECEP.TS.	22	
23	-	-	10	C	12	20-1	AUDITORIUM / PA SYSTEM SPEAKERS	24	
25	SPARE	20-1	-	A	12	20-1	AUDITORIUM / PA SYSTEM SPEAKERS	26	
27	SITE LIGHTING	20-2	2.8	B	3	20-1	STAGE / QUAD	28	
29	-	-	2.8	C	3	20-1	STAGE / QUAD	30	
31	SPARE	20-1	-	A	3	20-1	STAGE / QUAD	32	
33	HALLWAY / LIGHTING	20-1	10.5	B	3	20-1	STAGE / QUAD	34	
35	AUDITORIUM / GENERAL LIGHTING	20-1	11.2	C	3	20-1	STAGE / QUAD	36	
37	FITNESS ROOM / FANS	20-1	3	A	3	20-1	STAGE / QUAD	38	
39	STAGE / LIGHTING J-BOX	20-1	10	B	3	20-1	STAGE / QUAD	40	
41	STAGE / LIGHTING J-BOX	20-1	10	C	3	20-1	STAGE / QUAD	42	
43	SPARE	20-1	-	A	3	20-1	STAGE / QUAD	44	
45	GENERATOR JACKET & BATTERY HEATER	20-1	5	B	9	20-1	BASEMENT / RECEP.TS.	46	
47	SPARE	20-1	-	C	2	20-1	FACP POWER	48	
49	DOAS OUTDOOR UNIT (OU-1)	50-3	45	A	15	20-1	SUMP PUMP (SP1)	50	
51	-	-	45	B	14	20-1	WATER HEATER	52	
53	-	-	45	C	9	20-1	ROOF RECEP.TS.	54	
55	INDOOR UNIT (DOAS-1) & BRANCH CONTROLLER	20-2	5	A	9.7	20-1	SUMP PUMP (SP2)	56	
57	-	-	5	B	-	20-1	SPARE	58	
59	SPARE	20-1	-	C	-	20-1	SPARE	60	
61	SPARE	20-1	-	A	-	20-1	SPARE	62	
63	SPARE	20-1	-	B	-	20-1	SPARE	64	
65	EXHAUST FAN (EF-1)	20-1	10	C	-	20-1	SPARE	66	
67	10KW DUCT HEATER	40-3	27.8	A	-	20-1	SPARE	68	
69	-	-	27.8	B	-	20-1	SPARE	70	
71	-	-	27.8	C	-	20-1	SPARE	72	
73	10KW DUCT HEATER	40-3	27.8	A	-	20-1	SPARE	74	
75	-	-	27.8	B	-	20-1	SPARE	76	
77	-	-	27.8	C	-	20-1	SPARE	78	
79	SPARE	20-1	-	A	-	20-1	SPARE	80	
81	SPARE	20-1	-	B	-	20-1	SPARE	82	
83	SPARE	20-1	-	C	-	20-1	SPARE	84	

NOTES:
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 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INSTALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.

PANEL 'S.A' & 'S.B' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		150A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD	122.5
NEMA RATING: 1								PHASE "B" LOAD	100
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	7.5	A	17	35-2	AIR HANDLING UNIT & HEAT PUMP (AHU-2 & HP-2)	2	
3	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	17	-	-	4	
5	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	A	20	30-2	CLOTHES DRYER	6	
7	SPARE	20-1	-	B	20	-	-	8	
9	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	30	50-2	OVEN / RANGE	10	
11	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	30	-	-	12	
13	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	20	30-2	WATER HEATER	14	
15	<i>KITCHEN / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	16	
17	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A	-	20-1	SPARE	18	
19	SPARE	20-1	-	B	-	20-1	SPARE	20	
21	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	<i>20-1</i>	2	A	-	20-1	SPARE	22	
23	SPARE	20-1	-	B	-	20-1	SPARE	24	

NOTES:
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PANEL '1.A & 1.B' SCHEDULE									
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING			
120/208		150A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD	116.5
NEMA RATING: 1								PHASE "B" LOAD	108.5
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER	
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	A	14	30-2	AIR HANDLING UNIT & HEAT PUMP (AHU-1 & HP-1)	2	
3	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	14	-	-	4	
5	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	9	A	20	30-2	CLOTHES DRYER	6	
7	SPARE	20-1	-	B	20	-	-	8	
9	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	30	50-2	OVEN / RANGE	10	
11	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	30	-	-	12	
13	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	20	30-2	WATER HEATER	14	
15	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	B	20	-	-	16	
17	<i>KITCHEN / GFCI</i>	<i>20-1</i>	1.5	A	-	20-1	SPARE	18	
19	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B	-	20-1	SPARE	20	
21	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	<i>20-1</i>	3	A	-	20-1	SPARE	22	
23	SPARE	20-1	-	B	-	20-1	SPARE	24	

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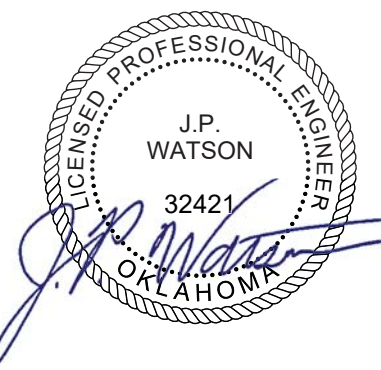
Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE

**ELECTRICAL
 SCHEDULES**

SHEET NUMBER

E601



James Watson, P.E. October 8th, 2021
 PE-32421
 OK Certificate of Authority # 8654



J-SQUARED
 ENGINEERING

2401 Bernadette Drive, Suite 201
 Columbia, Missouri 65203
 573 - 234 - 4492 phone
 www.j-squaredeng.com

J2 PROJECT No: J20395

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 10-08-2021

PANEL '1.C' & '1.G' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208		150A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD		121	
NEMA RATING: 1								PHASE "B" LOAD		113	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	A	17	35-2	AIR HANDLING UNIT & HEAT PUMP (AHU-2 & HP-2)	2			
3	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	17	-	-	4			
5	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	9	A	20	30-2	CLOTHES DRYER	6			
7	SPARE	20-1		B	20	-	-	8			
9	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	30	50-2	OVEN / RANGE	10			
11	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	30	-	-	12			
13	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	20	30-2	WATER HEATER	14			
15	<i>KITCHEN / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	16			
17	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A		20-1	SPARE	18			
19	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B		20-1	SPARE	20			
21	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	<i>20-1</i>	3	A		20-1	SPARE	22			
23	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	3	B		20-1	SPARE	24			

NOTES:
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 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INST. ALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
 D: CIRCUITS SHOWN ABOVE IN *BOLD ITALICS* TEXT SHALL BE AFCI PROTECTED.

PANEL '2.A', '2.B', & '2.F' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208		200A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD		122.5	
NEMA RATING: 1								PHASE "B" LOAD		121.5	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	A	17	35-2	AIR HANDLING UNIT & HEAT PUMP (AHU-2 & HP-2)	2			
3	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	B	17	-	-	4			
5	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	A	20	30-2	CLOTHES DRYER	6			
7	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	8			
9	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	12	A	30	50-2	OVEN / RANGE	10			
11	SPARE	20-1		B	30	-	-	12			
13	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	20	30-2	WATER HEATER	14			
15	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	20	-	-	16			
17	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A		20-1	SPARE	18			
19	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	B	4	<i>20-1</i>	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	20			
21	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A		20-1	SPARE	22			
23	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B		20-1	SPARE	24			

NOTES:
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 D: CIRCUITS SHOWN ABOVE IN *BOLD ITALICS* TEXT SHALL BE AFCI PROTECTED.

PANEL '1.D', '1.F', '1.H', '1.I', & '1.J' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208		150A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD		122.5	
NEMA RATING: 1								PHASE "B" LOAD		110	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	7.5	A	17	35-2	AIR HANDLING UNIT & HEAT PUMP (AHU-2 & HP-2)	2			
3	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	17	-	-	4			
5	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	9	A	20	30-2	CLOTHES DRYER	6			
7	SPARE	20-1		B	20	-	-	8			
9	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	30	50-2	OVEN / RANGE	10			
11	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	30	-	-	12			
13	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	20	30-2	WATER HEATER	14			
15	<i>KITCHEN / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	16			
17	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A		20-1	SPARE	18			
19	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B		20-1	SPARE	20			
21	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	<i>20-1</i>	3	A		20-1	SPARE	22			
23	SPARE	20-1		B		20-1	SPARE	24			

NOTES:
 A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOME-LINE"
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PANEL '2.C' & '2.E' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208		200A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD		129.5	
NEMA RATING: 1								PHASE "B" LOAD		128.5	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	9	A	24	40-2	AIR HANDLING UNIT & HEAT PUMP (AHU-3 & HP-3)	2			
3	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	B	24	-	-	4			
5	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	A	20	30-2	CLOTHES DRYER	6			
7	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	8			
9	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	9	A	30	50-2	OVEN / RANGE	10			
11	SPARE	20-1		B	30	-	-	12			
13	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	20	30-2	WATER HEATER	14			
15	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	20	-	-	16			
17	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A		20-1	SPARE	18			
19	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	B	4	<i>20-1</i>	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	20			
21	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A		20-1	SPARE	22			
23	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B		20-1	SPARE	24			

NOTES:
 A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOME-LINE"
 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INST. ALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
 D: CIRCUITS SHOWN ABOVE IN *BOLD ITALICS* TEXT SHALL BE AFCI PROTECTED.

PANEL '1.E' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208		150A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD		122.5	
NEMA RATING: 1								PHASE "B" LOAD		110	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	7.5	A	17	35-2	AIR HANDLING UNIT & HEAT PUMP (AHU-2 & HP-2)	2			
3	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	17	-	-	4			
5	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	9	A	20	30-2	CLOTHES DRYER	6			
7	SPARE	20-1		B	20	-	-	8			
9	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	30	50-2	OVEN / RANGE	10			
11	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	30	-	-	12			
13	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	20	30-2	WATER HEATER	14			
15	<i>KITCHEN / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	16			
17	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A		20-1	SPARE	18			
19	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B		20-1	SPARE	20			
21	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	<i>20-1</i>	3	A		20-1	SPARE	22			
23	SPARE	20-1		B		20-1	SPARE	24			

NOTES:
 A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOME-LINE"
 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INST. ALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
 D: CIRCUITS SHOWN ABOVE IN *BOLD ITALICS* TEXT SHALL BE AFCI PROTECTED.

PANEL '2.G' SCHEDULE											
VOLTAGE		PANEL SIZE		MOUNTING		AIC RATING					
120/208		200A MLO		RECESSED		SEE RISER (E501)		PHASE "A" LOAD		132.5	
NEMA RATING: 1								PHASE "B" LOAD		128.5	
CIRCUIT NUMBER	DESCRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DESCRIPTION	CIRCUIT NUMBER			
1	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	9	A	24	40-2	AIR HANDLING UNIT & HEAT PUMP (AHU-3 & HP-3)	2			
3	<i>BEDROOM / RECEP.TS.</i>	<i>20-1</i>	6	B	24	-	-	4			
5	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	A	20	30-2	CLOTHES DRYER	6			
7	<i>BATHROOM / GFCI</i>	<i>20-1</i>	1.5	B	20	-	-	8			
9	<i>LIVING / RECEP.TS.</i>	<i>20-1</i>	7.5	A	30	50-2	OVEN / RANGE	10			
11	SPARE	20-1		B	30	-	-	12			
13	<i>KITCHEN / DISHWASHER</i>	<i>20-1</i>	8	A	20	30-2	WATER HEATER	14			
15	<i>KITCHEN / MICROWAVE</i>	<i>20-1</i>	10	B	20	-	-	16			
17	<i>KITCHEN / REF.</i>	<i>20-1</i>	5	A	4.5	<i>20-1</i>	<i>HALL / RECEP.TS.</i>	18			
19	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	B	4	<i>20-1</i>	<i>UNIT LIGHTING / SMOKE DETECTOR</i>	20			
21	<i>KITCHEN / GFCI</i>	<i>20-1</i>	3	A		20-1	SPARE	22			
23	<i>CLOTHES WASHER</i>	<i>20-1</i>	10	B		20-1	SPARE	24			

NOTES:
 A: PANEL SHALL BE EQUAL TO SQUARE D MODEL "HOME-LINE"
 B: ELECTRICIAN SHALL VERIFY BREAKER WITH EQUIPMENT PRIOR TO PURCHASE & INST. ALL.
 C: AFTER COMPLETION OF WORK, ELECTRICIAN SHALL PROVIDE A TYPE WRITTEN PANEL DIRECTORY IN NEW PANEL.
 D: CIRCUITS SHOWN ABOVE IN *BOLD ITALICS* TEXT SHALL BE AFCI PROTECTED.

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE

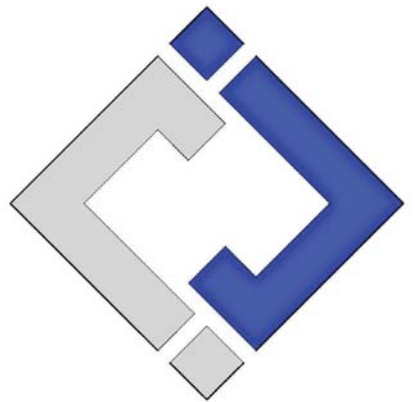
ELECTRICAL
 SCHEDULES

SHEET NUMBER

E602



James Watson, P.E. October 8th, 2021
 PE-32421
 OK Certificate of Authority # 8654



**J-SQUARED
 ENGINEERING**

2401 Bernadette Drive, Suite 201
 Columbia, Missouri 65203
 573 - 234 - 4492 phone
 www.j-squaredeng.com

J2 PROJECT No: J20395
 J2 DESIGN: KEL

ISSUE TITLE	DATE
PERMIT SET	10-08-2021

SANITARY SEWER PLAN SYMBOL LEGEND

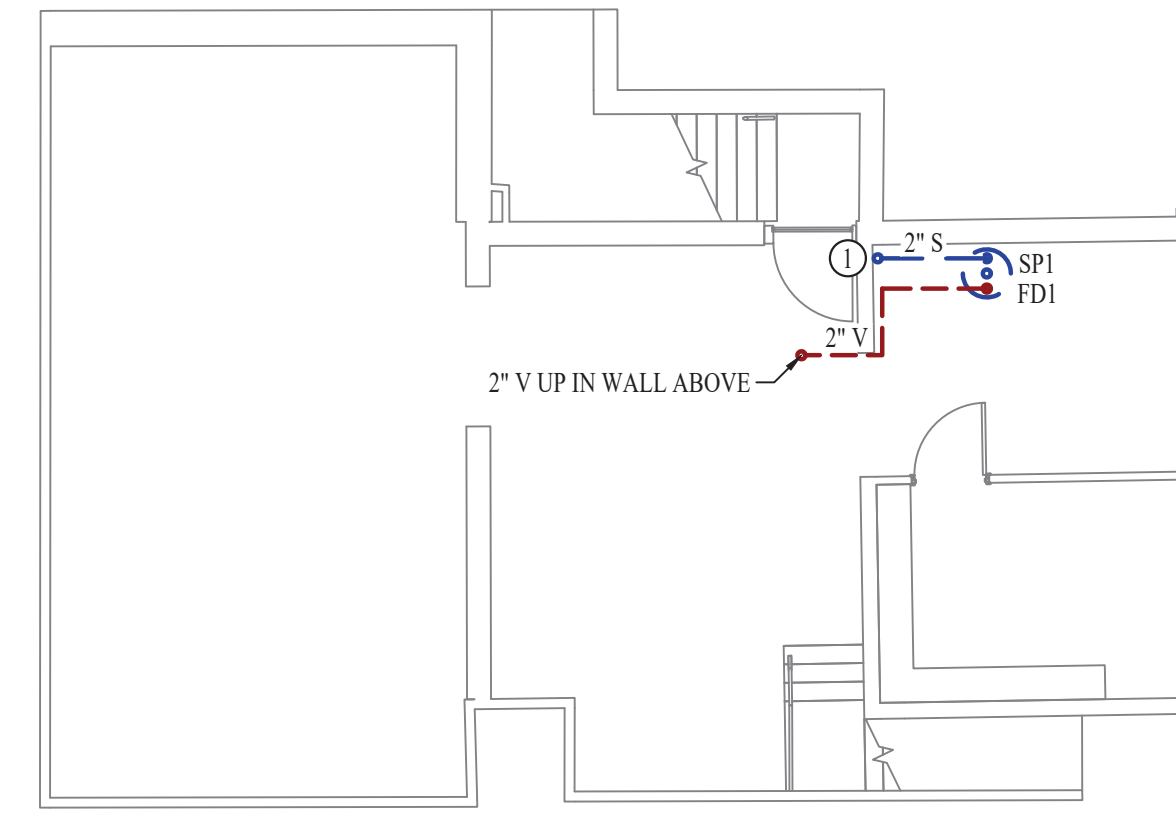
- SANITARY SEWER PIPING
- VENT PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

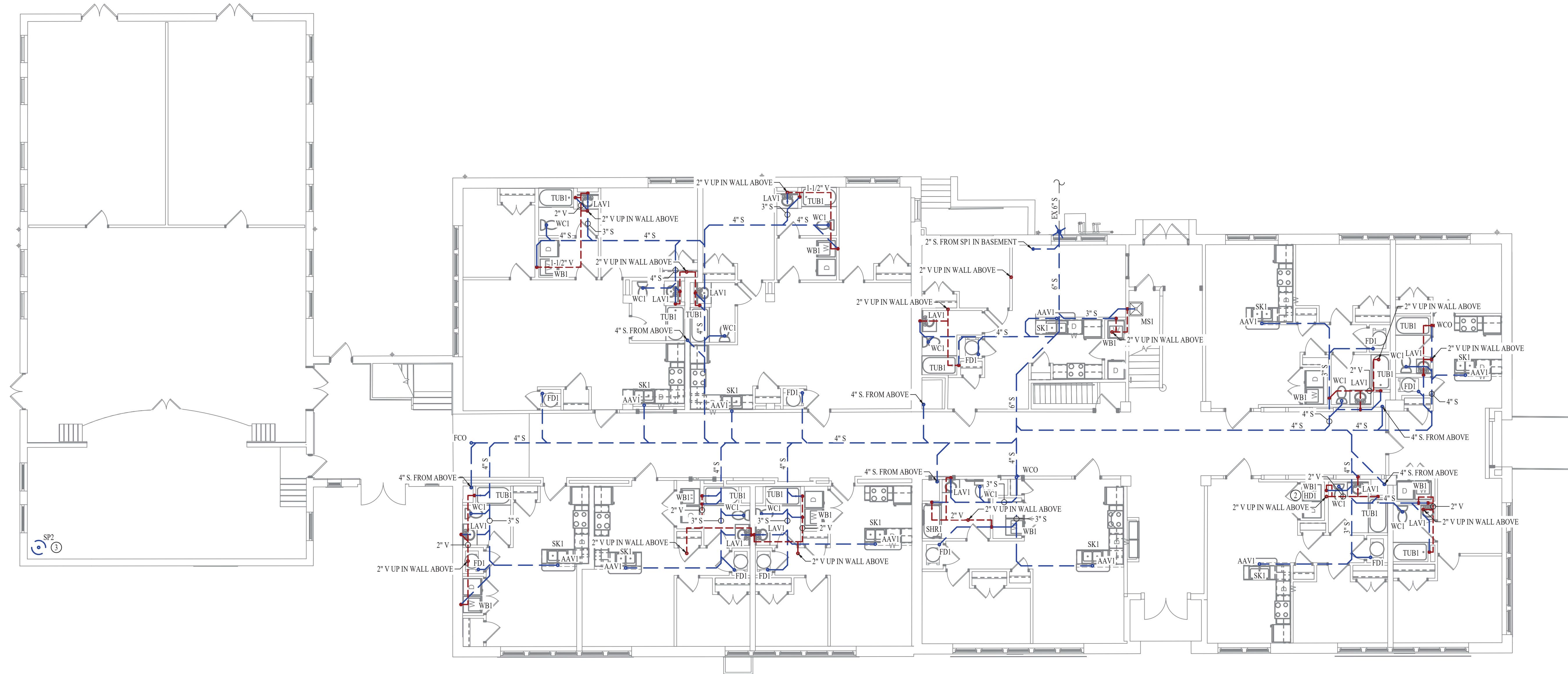
1. SEE SHEET PS01 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.
2. ALL PLUMBING FIXTURES AND PIPING LABELED "EX." OR "EXISTING" SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

SANITARY SEWER PLAN KEY NOTES:

- ① SP1 DISCHARGE UP AND TIE INTO EXISTING SANITARY SEWER.
- ② COORDINATE HUB DRAIN LOCATION WITH HVAC CONTRACTOR TO ENSURE PROPER FALL FOR CONDENSATE LINE.
- ③ SUMP PUMP (SP2) LOCATED UNDER STAGE AT THIS LOCATION. COORDINATE SP2 DISCHARGE WITH OWNER. INCLUDE 100FT OF DISCHARGE PIPING FOR BID PURPOSES.



BASEMENT SANITARY SEWER PLAN
 SCALE: 1/8" = 1'-0"



FIRST FLOOR SANITARY SEWER PLAN
 SCALE: 1/8" = 1'-0"

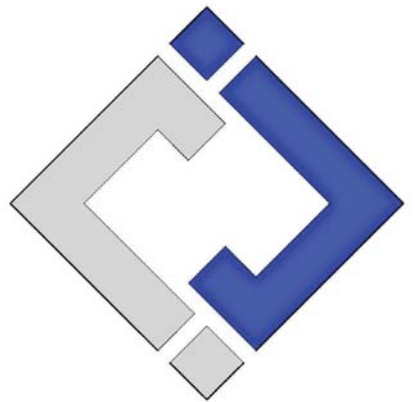
Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
**BASEMENT &
 FIRST FLOOR
 SANITARY
 SEWER PLAN**

SHEET NUMBER
PS101



James Watson, P.E. October 8th, 2021
 PE-32421
 OK Certificate of Authority # 8654



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 ENGINEERING**
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 Columbia, Missouri 65203
 573 - 234 - 4492 phone
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J2 PROJECT No: J20395
 J2 DESIGN: KEL

ISSUE TITLE	DATE
PERMIT SET	10-08-2021

SANITARY SEWER PLAN SYMBOL LEGEND

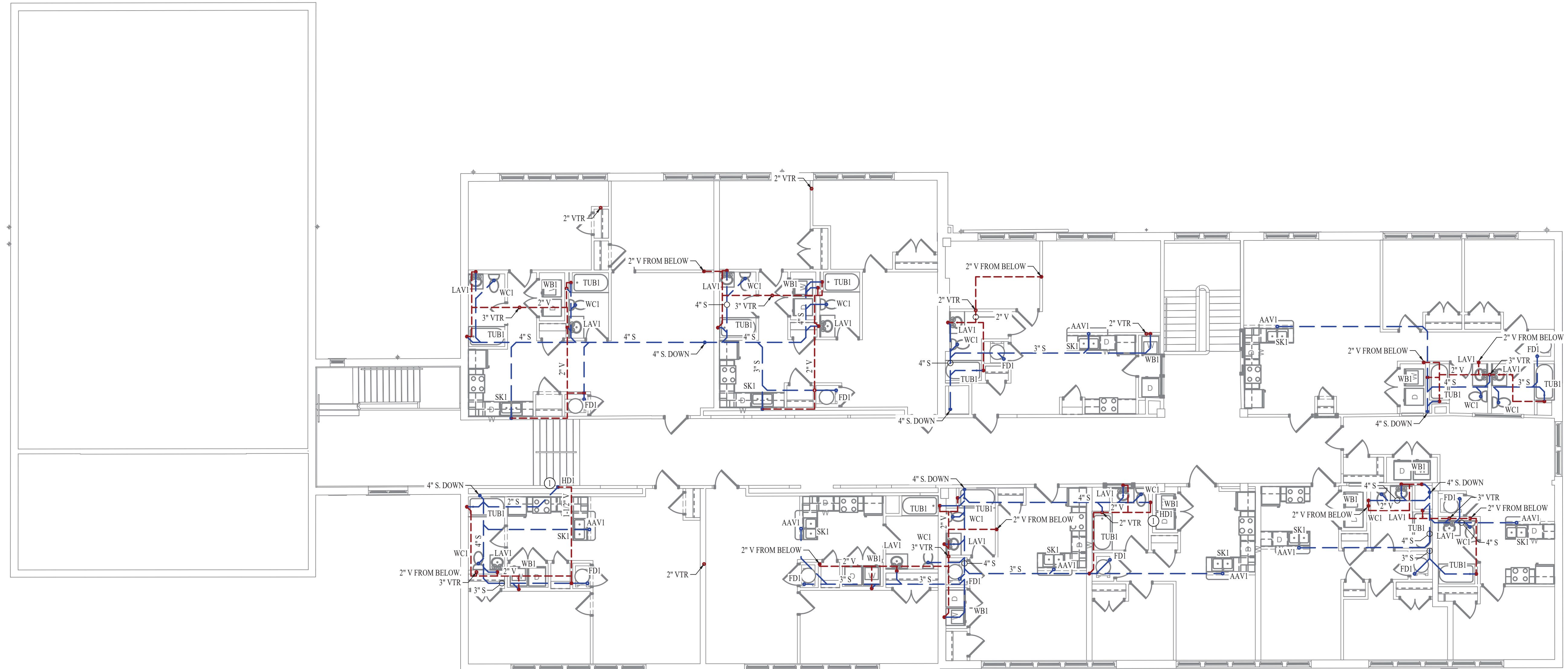
- SANITARY SEWER PIPING
- VENT PIPING
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

1. SEE SHEET PS01 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

SANITARY SEWER PLAN KEY NOTES:

- ① COORDINATE HUB DRAIN LOCATION WITH HVAC CONTRACTOR TO ENSURE PROPER FALL FOR CONDENSATE LINE AND DEHUMIDIFIER DISCHARGE.



SECOND FLOOR SANITARY SEWER PLAN
 SCALE: 1/8" = 1'-0"

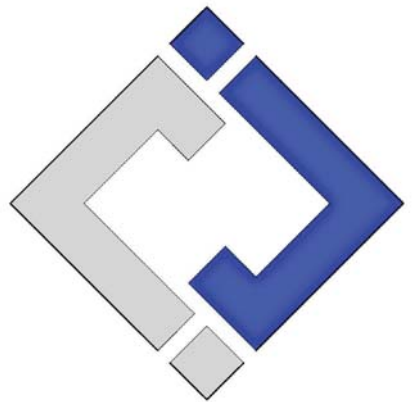
Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
**SECOND FLOOR
 SANITARY
 SEWER PLAN**

SHEET NUMBER
PS102



James Watson, P.E. October 8th, 2021
 PE-32421
 OK Certificate of Authority # 8654



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 2401 Bernadette Drive, Suite 201
 Columbia, Missouri 65203
 573 - 234 - 4492 phone
 www.j-squaredeng.com

J2 PROJECT No: J20395
 J2 DESIGN: KEL

ISSUE TITLE	DATE
PERMIT SET	10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
BASEMENT & FIRST FLOOR WATER & GAS PLAN

SHEET NUMBER
PW101

WATER & GAS PLAN SYMBOL LEGEND

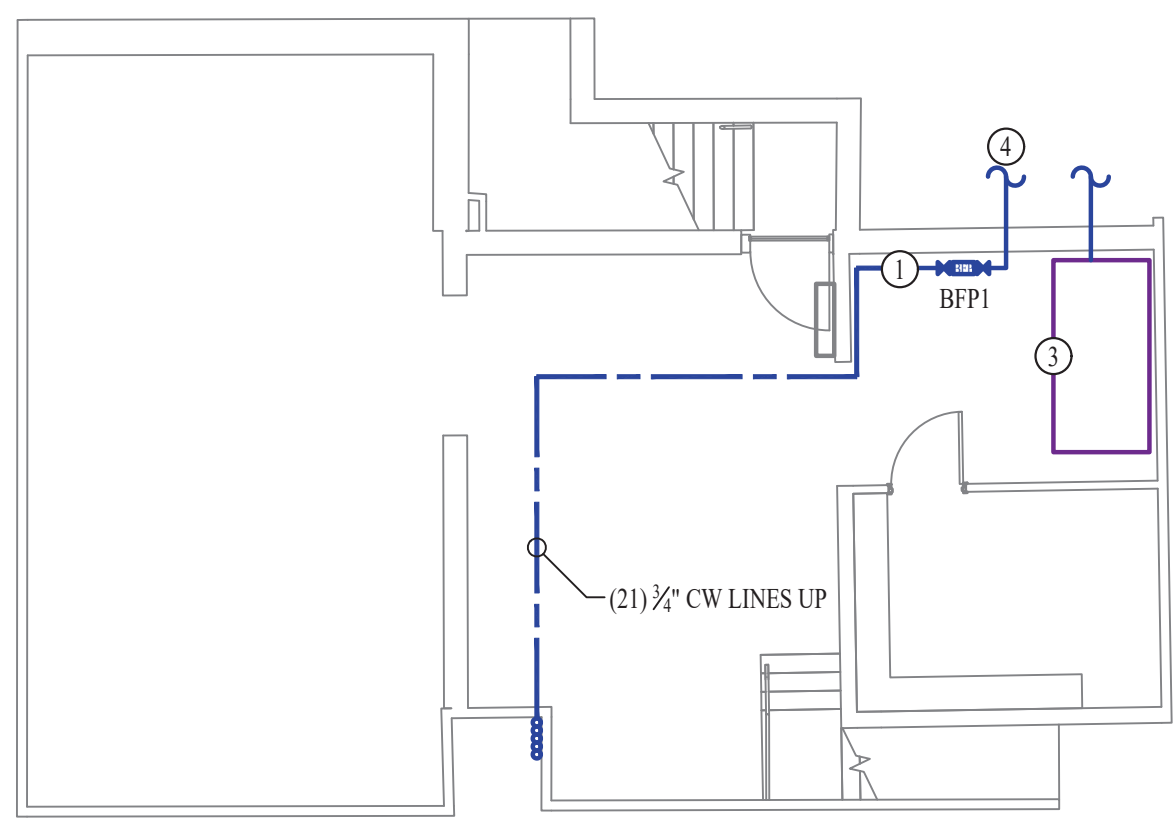
- COLD WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- EXISTING GAS LINE
- GAS METER
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

WATER & GAS PLAN GENERAL NOTES:

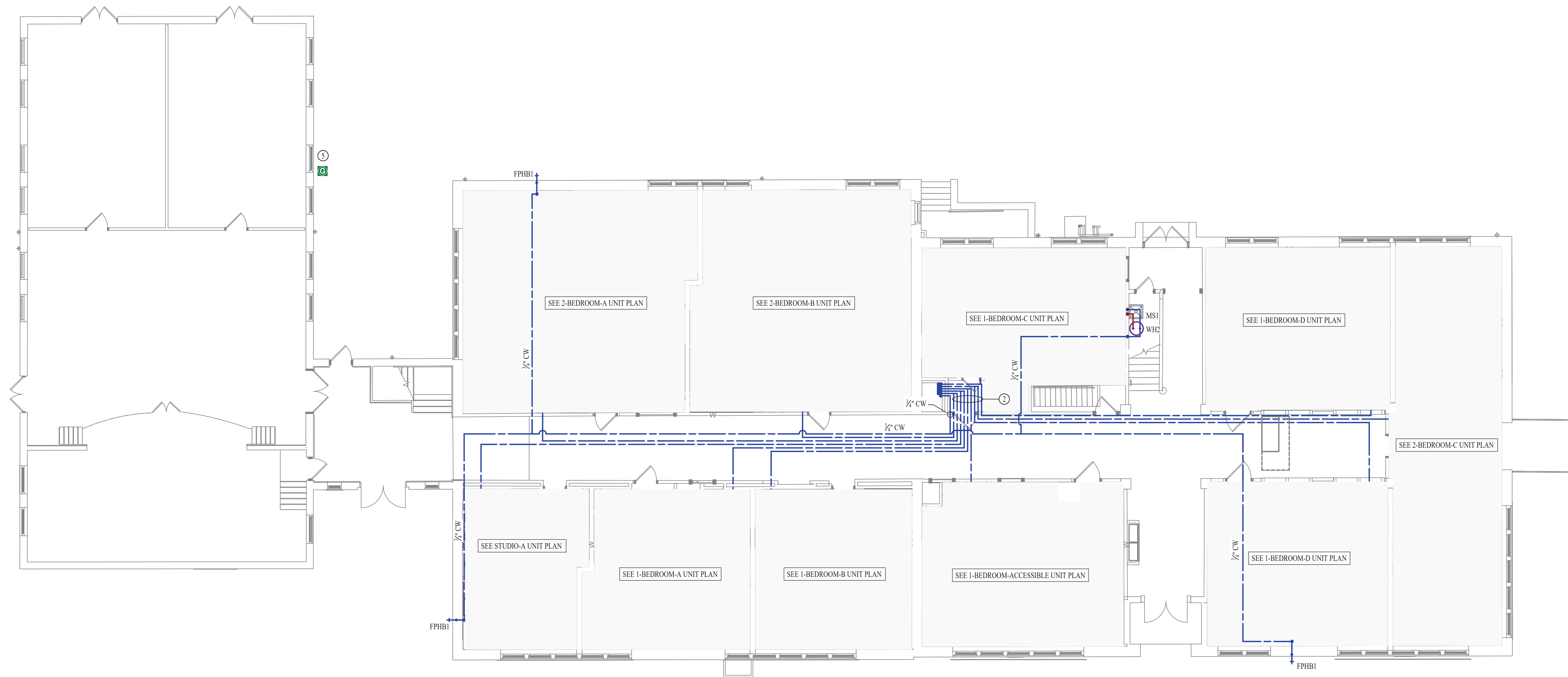
1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER & GAS PLAN KEY NOTES:

- ① WATER METER TREE. SEE WATER SERVICE DETAIL.
- ② 1/2" CW LINE FOR EACH APARTMENT.
- ③ SPRINKLER RISER LOCATION. SEE FIRE SPRINKLER DRAWINGS FOR FURTHER DETAILS.
- ④ 2" DOMESTIC CW LINE. TOTAL CONNECTED LOAD = 185WSFU AT 61 GPM
- ⑤ NEW GAS METER. TOTAL CONNECTED LOAD = 4,855,000 BTU AT 2PSI DELIVERY PRESSURE (4,585,000 BTUH OF BACKUP GENERATOR LOAD) (270,000 BTUH OF HVAC EQUIPMENT LOAD). SEE GAS RISER FOR MORE INFORMATION.



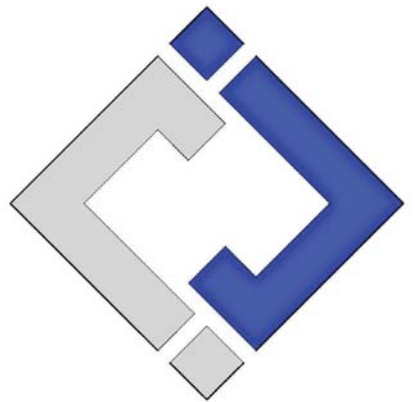
BASEMENT WATER & GAS PLAN
 SCALE: 1/8" = 1'-0"



FIRST FLOOR WATER & GAS PLAN
 SCALE: 1/8" = 1'-0"



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ISSUE TITLE	DATE
PERMIT SET	10-08-2021

WATER & GAS PLAN SYMBOL LEGEND

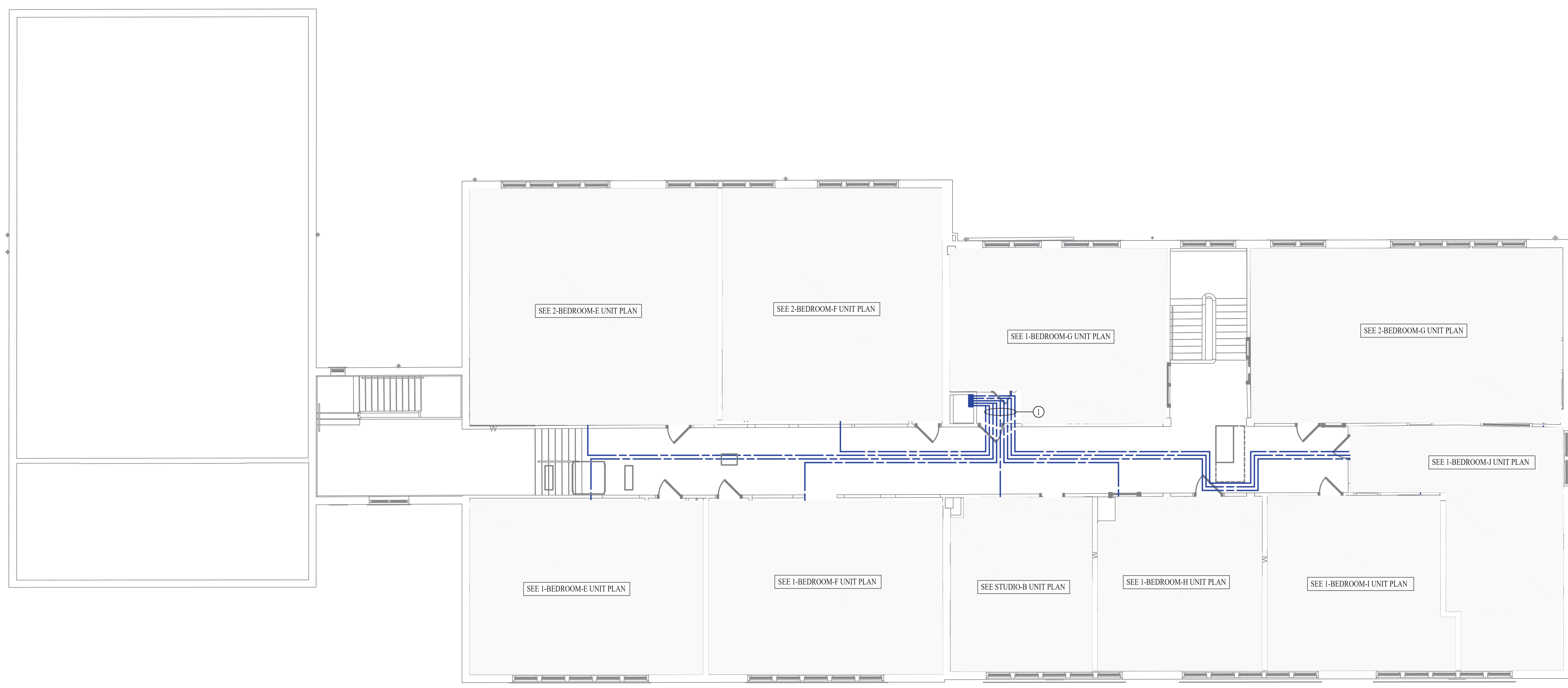
- COLD WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- EXISTING GAS LINE
- GAS METER
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER & GAS PLAN KEY NOTES:

- ① 1/2" CW LINE FOR EACH APARTMENT.



SECOND FLOOR WATER & GAS PLAN
 SCALE: 1/8" = 1'-0"

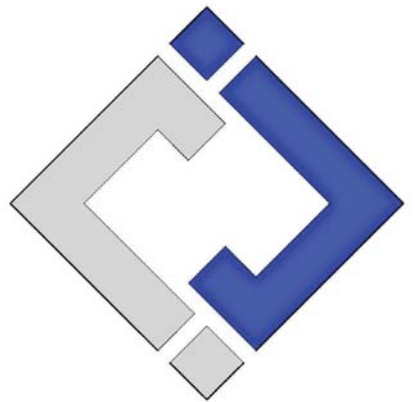
Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE
**SECOND FLOOR
 WATER & GAS PLAN**

SHEET NUMBER
PW102



James Watson, P.E. October 8th, 2021
 PE-32421
 OK Certificate of Authority # 8654



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J2 PROJECT No: J20395
 J2 DESIGN: KEL

ISSUE TITLE DATE
 PERMIT SET 10-08-2021

PLUMBING FIXTURE SCHEDULE

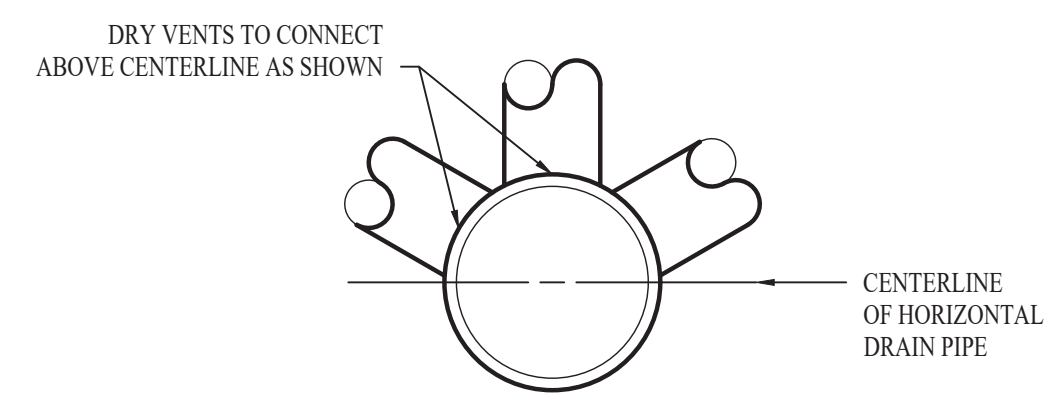
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
AAV1	AIR ADMITTANCE VALVE	OATEY	39017	1.5" - 2" - 20 DFU MAX
BFPI	BACKFLOW PREVENTER	WILKINS	9755XL2	1.5"
EXP1	EXPANSION TANK	AO SMITH	TS-5	
FCO	FLOOR CLEANOUT	ZURN	1400	
FD1	FLOOR DRAIN	SIOUX CHIEF	863-435NRT	WITH GD102 TRAP GUARD
FPHB1	FROST PROOF HOSE BIB	WOODFORD	MODEL.67	
HD1	HUB DRAIN			
LAV1	LAVATORY (DROP-IN W/ MANUAL FAUCET)	MANSFIELD	237-4	WITH PEERLESS P136LF FAUCET, 1/4 TURN STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES
MS1	MOP SINK	FIAT	MSH2424	WITH ZURN Z843M1 FAUCET WITH WALL HOOK
REF1	REFRIGERATOR BOX	SOUX CHIEF	696-G1010MF	
SHR1	ADA SHOWER	AQUATIC	1483TSC1	WITH PEERLESS PTT188743 TRIM KIT, PEERLESS R10000-PFT-MFWS A1 SHOWER VALVE, AND P62410 HAND SPRAYER AND SLIDEBAR
SK1	DOUBLE COMPARTMENT SINK W/ DISPOSAL (33Q227)	DAYTON	K23521-4	WITH PEERLESS P1151LF FAUCET WITH SPRAYER AND INSINKERATOR FWD-1 DISPOSAL WITH POWER CORD
SP1	SUMP PUMP	ZOELLER	MODEL.161	WITH A-PAK ALARM SYSTEM, SUMP PIT, FLOAT ASSEMBLY
SP2	SUMP PUMP	ZOELLER	MODEL.53	WITH A-PAK ALARM SYSTEM, SUMP PIT, FLOAT ASSEMBLY
TUB1	TUB & SHOWER	AQUATIC	2603SG	WITH PEERLESS PTT188773 TRIM KIT (1.5GPM), PEERLESS R10000-PFT-MFWS SHOWER VALVE, & P8227 PVC UNI-LIFT
WB1	WASHER BOX	SIOUX CHIEF	696-G2303WF	
WC1	WATER CLOSET - ADA HEIGHT - TANK	MANSFIELD	ALTO 137-160	WITH BEMIS 1500FC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
WCO	WALL CLEAN OUT			
WH1	UNIT WATER HEATER	AO SMITH	ENL-40	38 GALLON, 208V 1-PH, 4500W
WH2	WATER HEATER	AO SMITH	EJC-10	10 GALLON, 120V, 1650W

NOTES:
 1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION

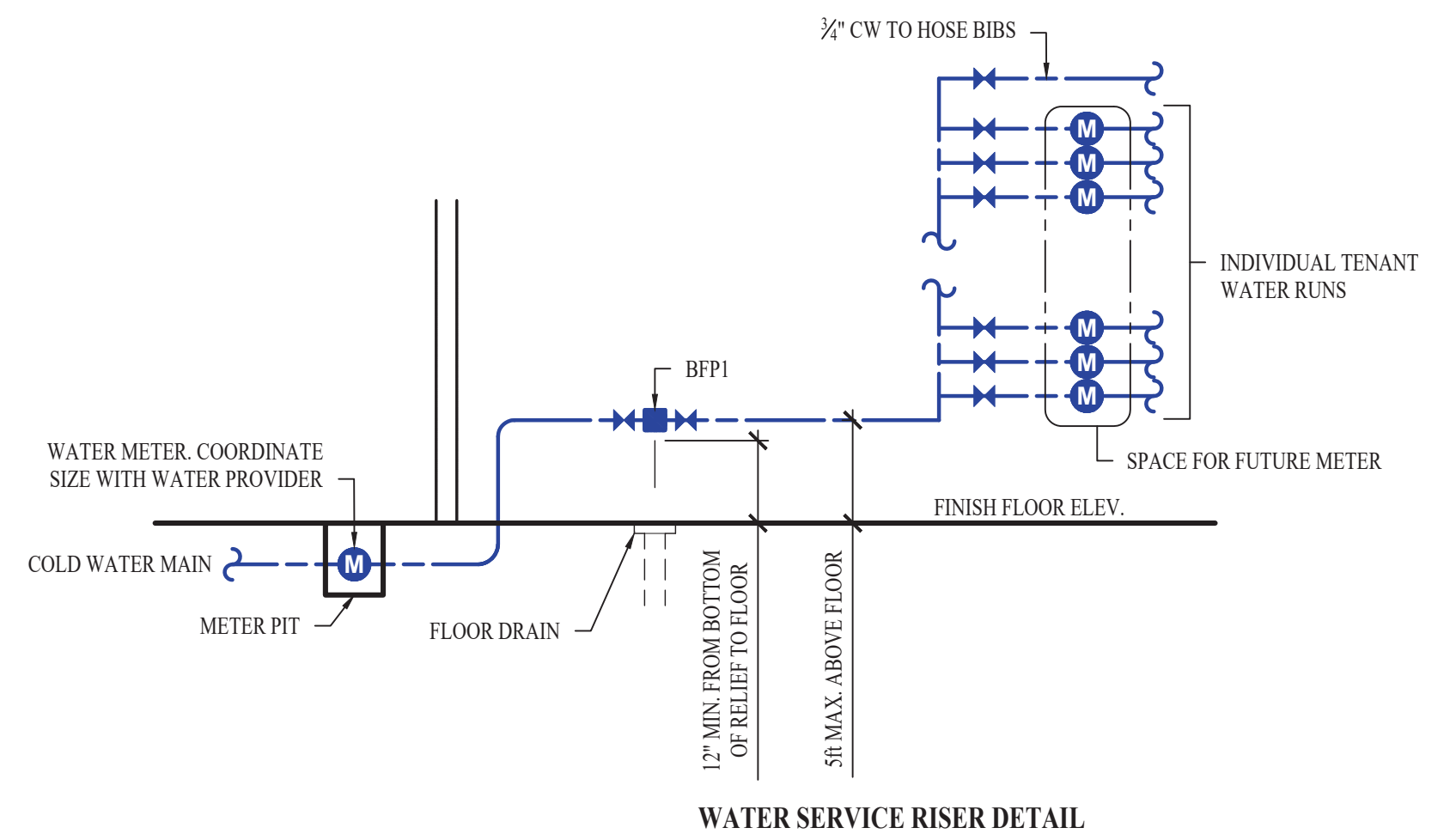
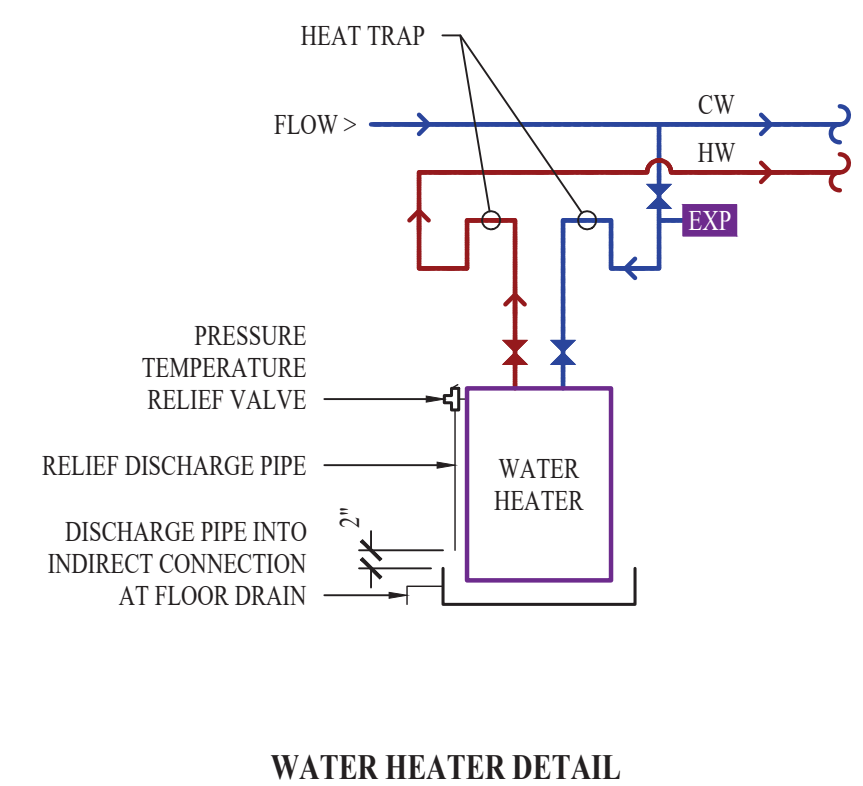
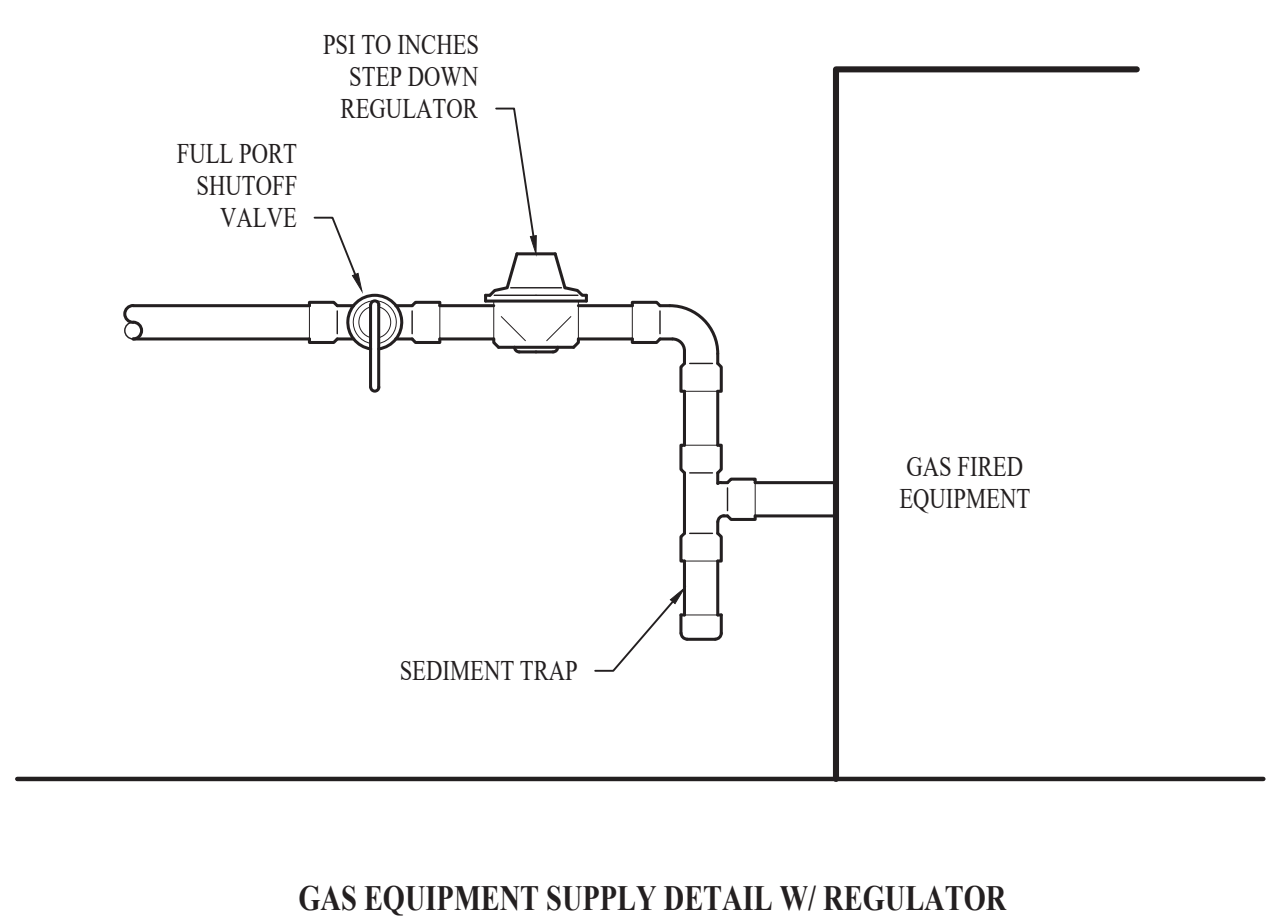
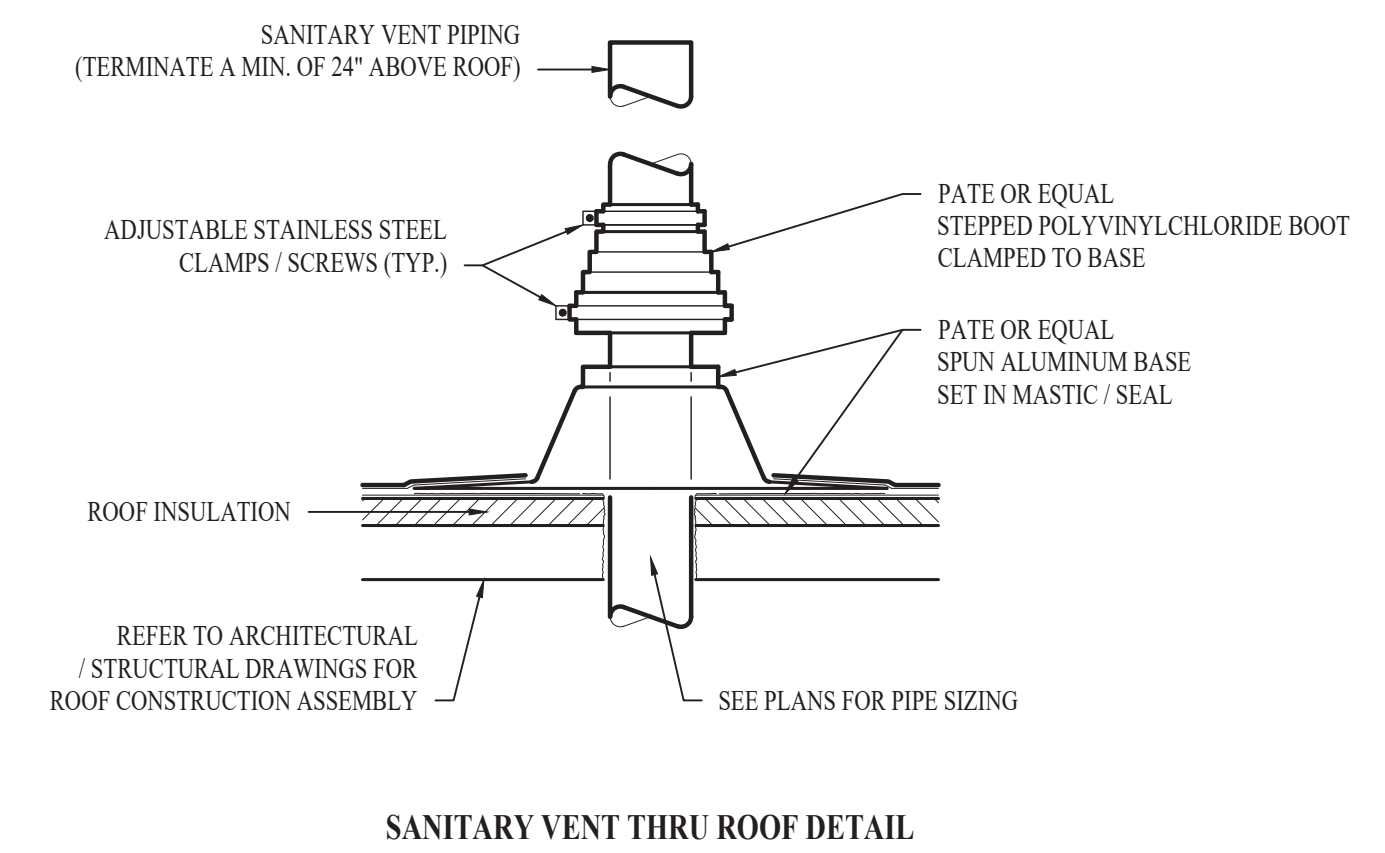
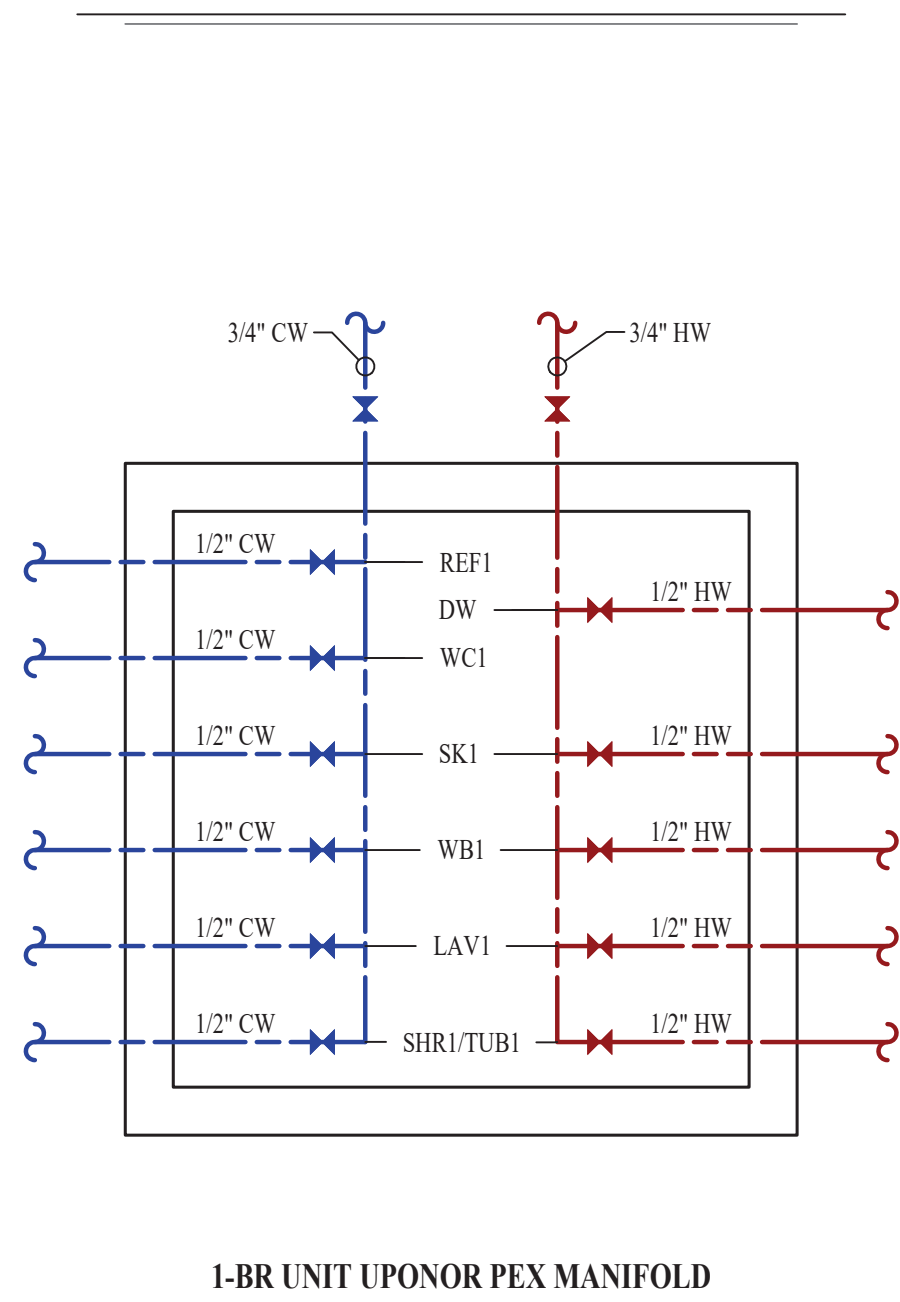
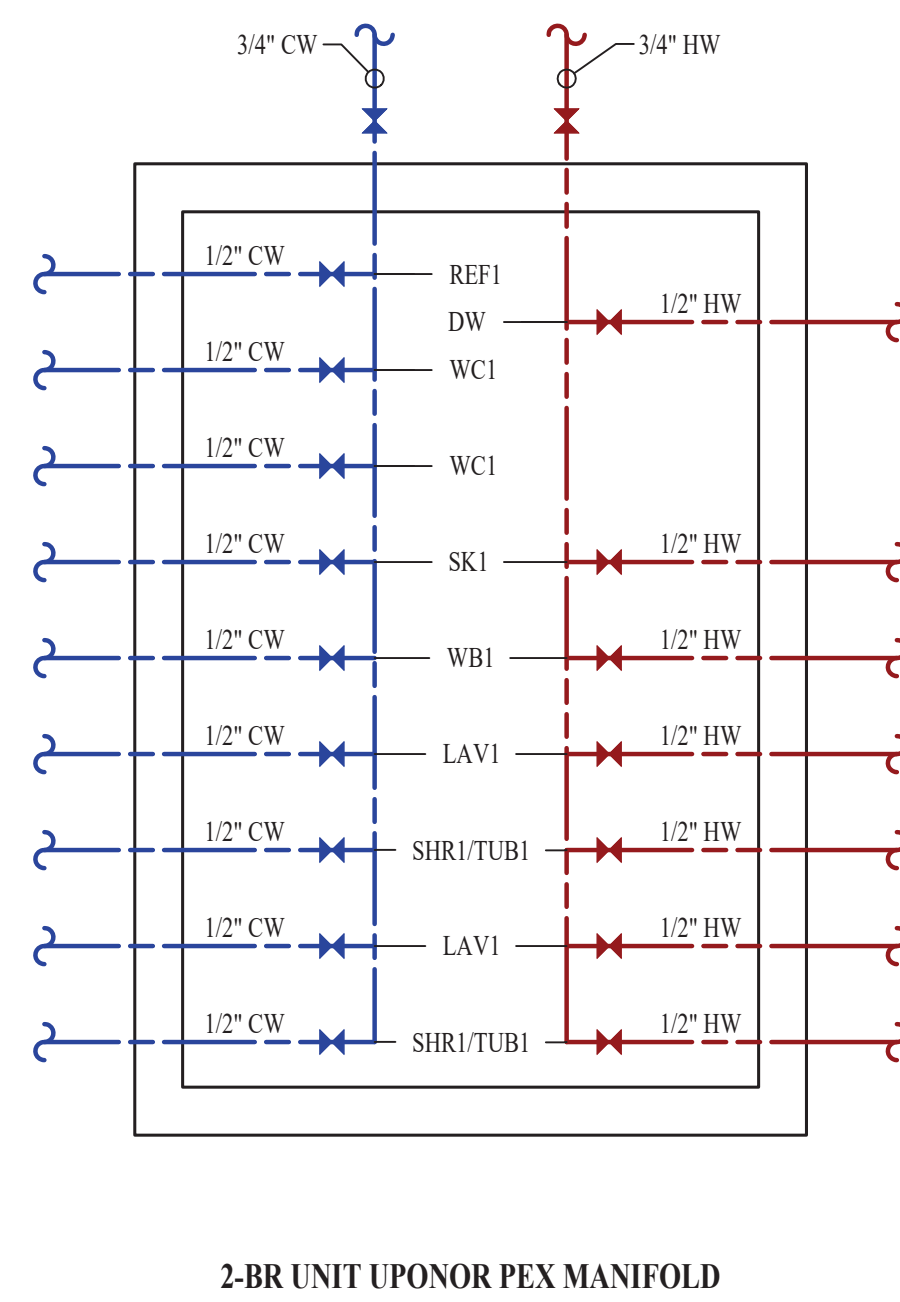
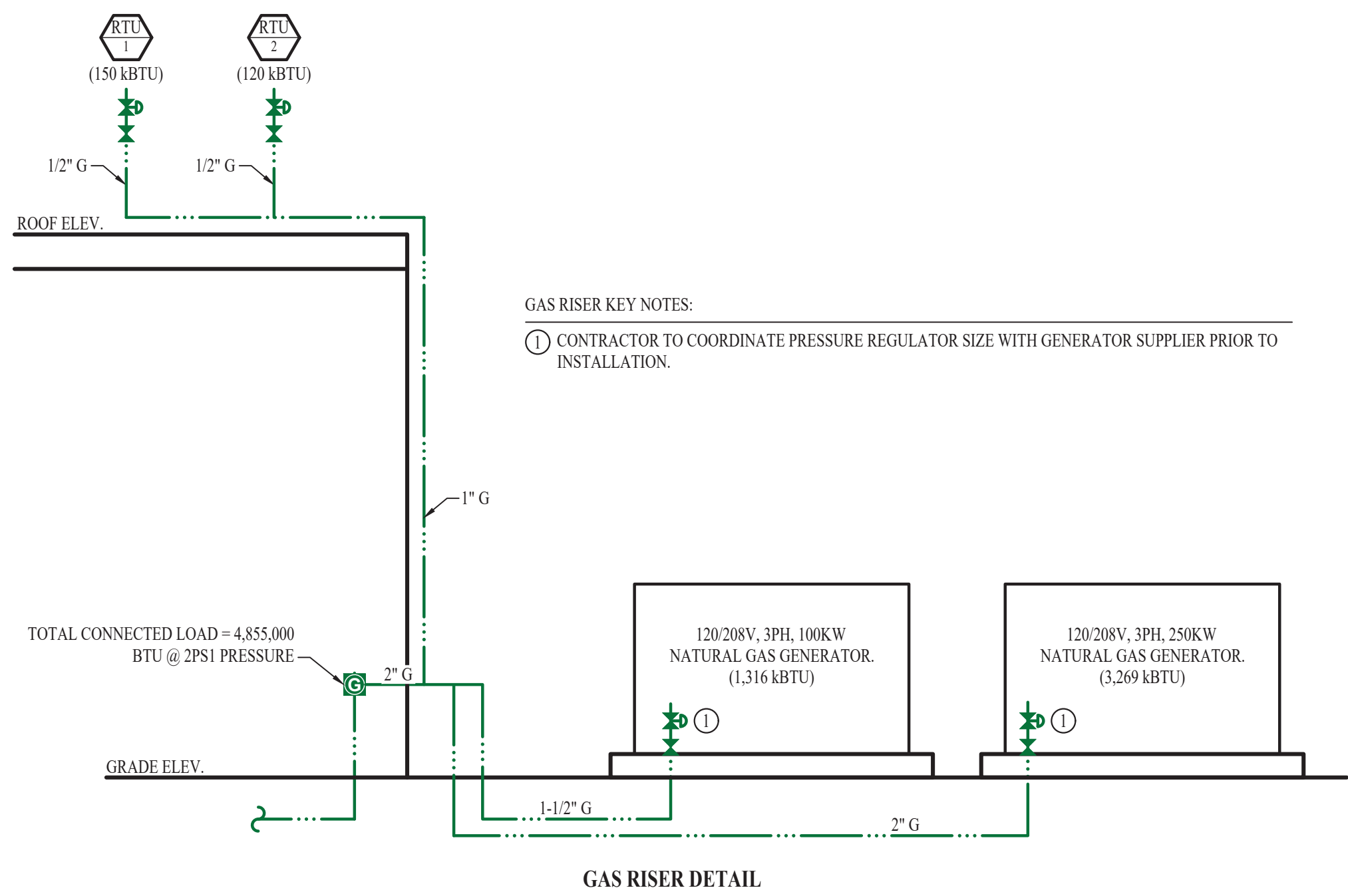
PLUMBING CONNECTION SIZING SCHEDULE

FIXTURE TYPE	TYPICAL ABBREVIATION	SANITARY PIPING		SUPPLY PIPING	
		WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URNAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-

NOTES:
 1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS

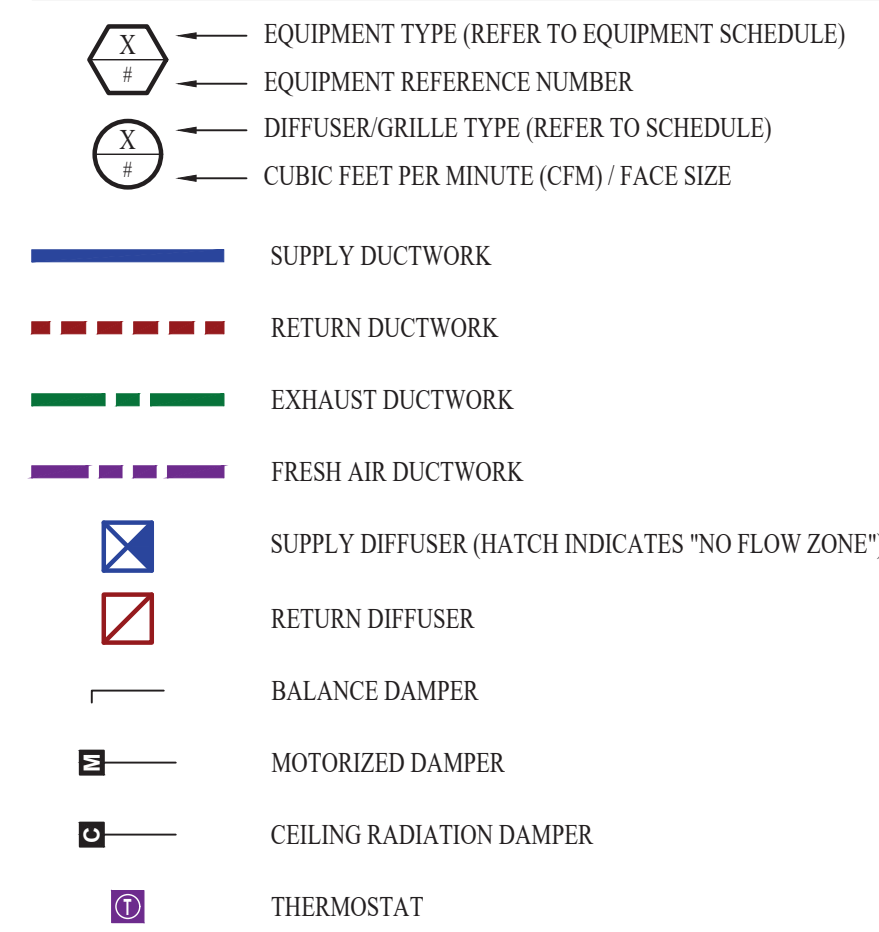


DRY VENT DETAIL



Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
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 Oklahoma City, OK, 73111

HVAC PLAN SYMBOL LEGEND

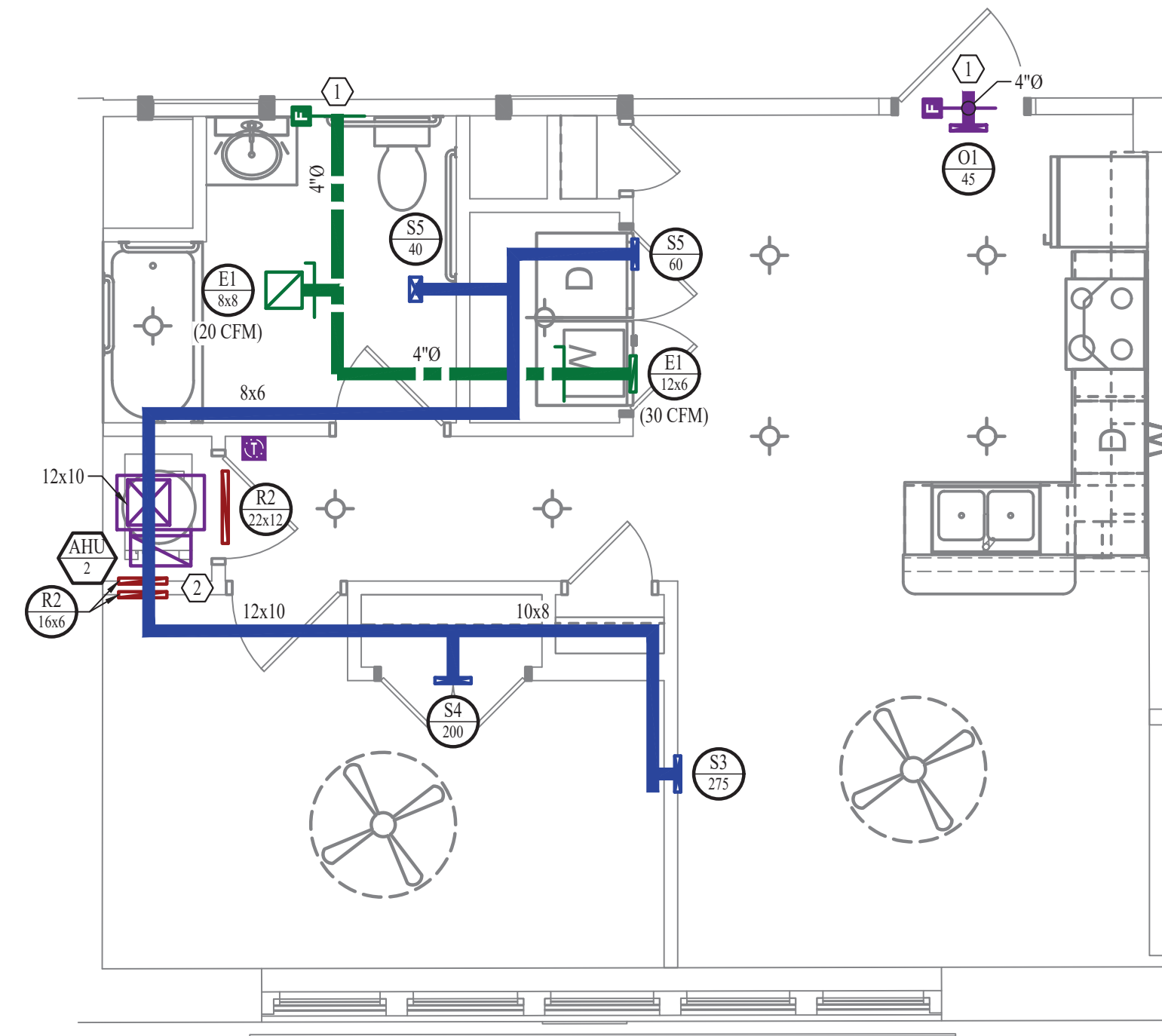


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

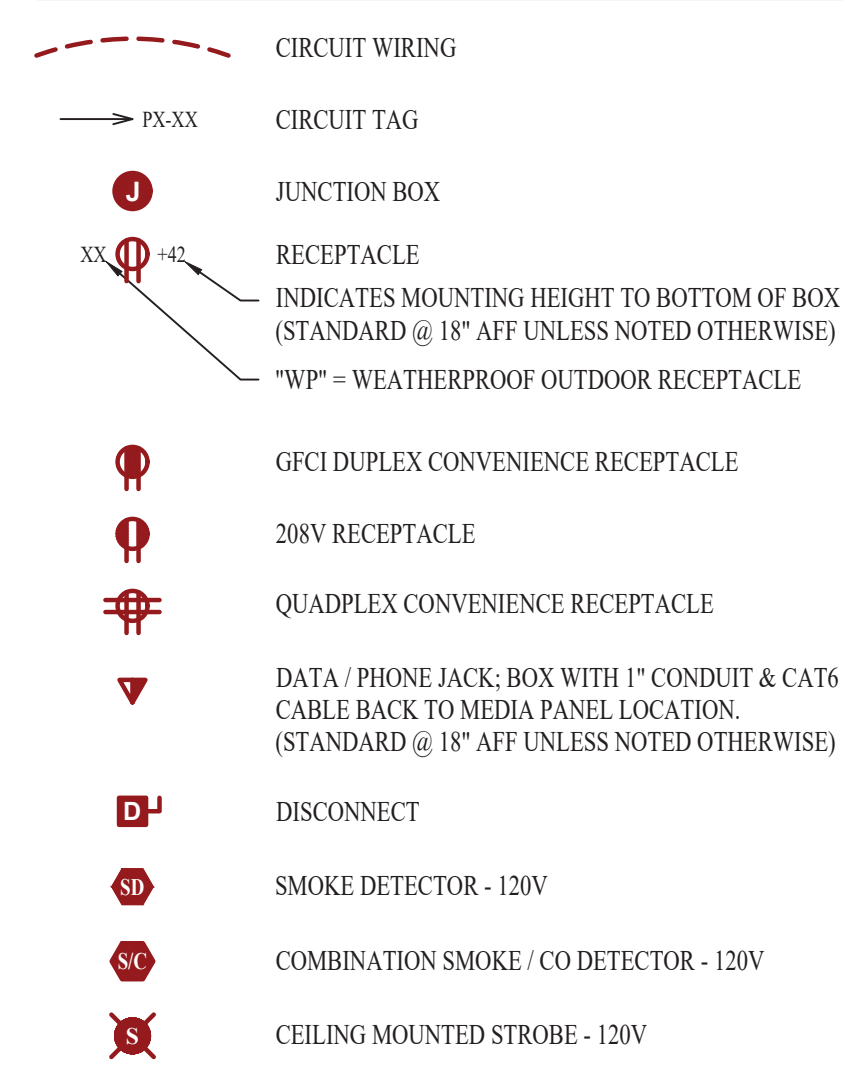
HVAC PLAN KEY NOTES:

- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- HI-LOW TRANSFER GRILLES



HVAC PLAN
SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

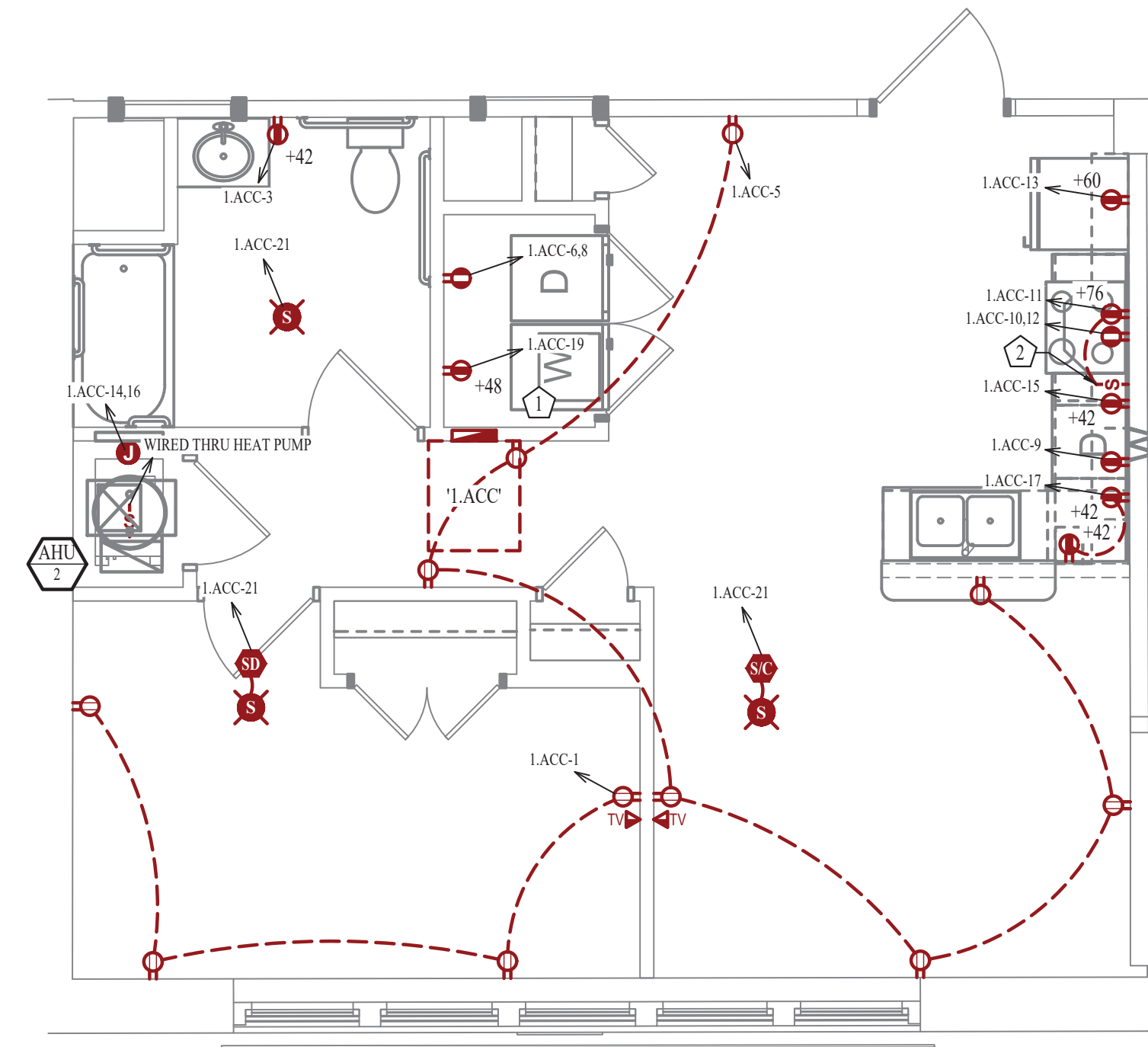


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

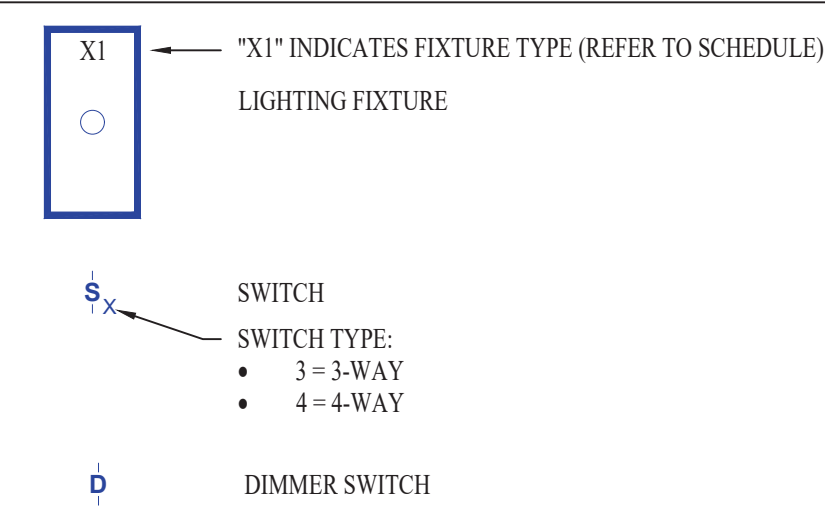
POWER PLAN KEY NOTES:

- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.
- WALL SWITCH TO OPERATE VENT HOOD OVER RANGE PER UFAS REQUIREMENTS.



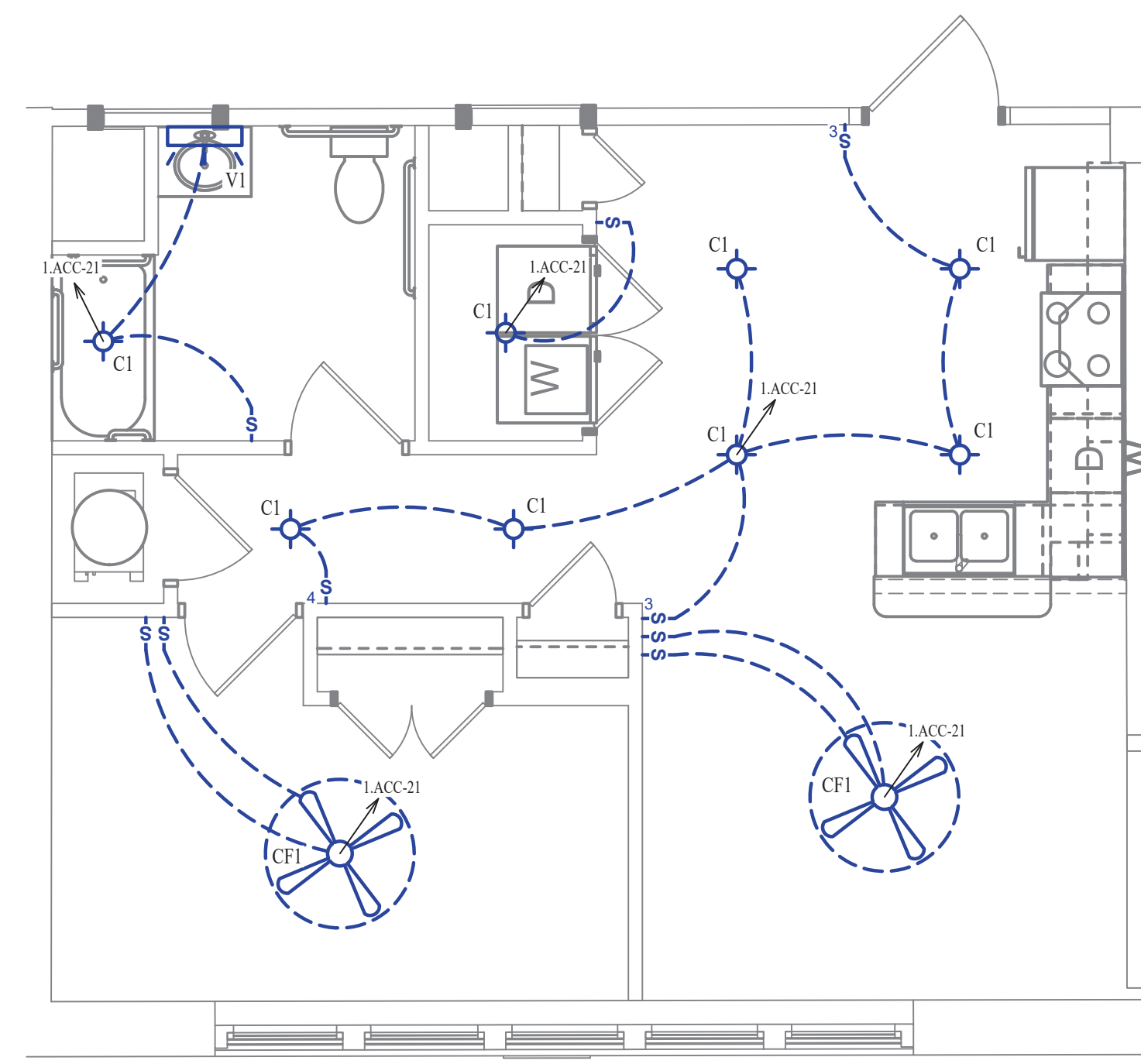
POWER PLAN
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



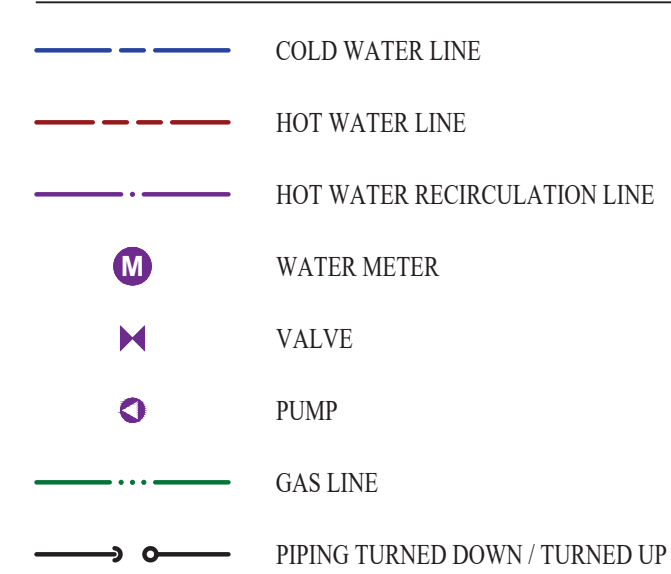
LIGHTING PLAN GENERAL NOTES:

- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN
SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

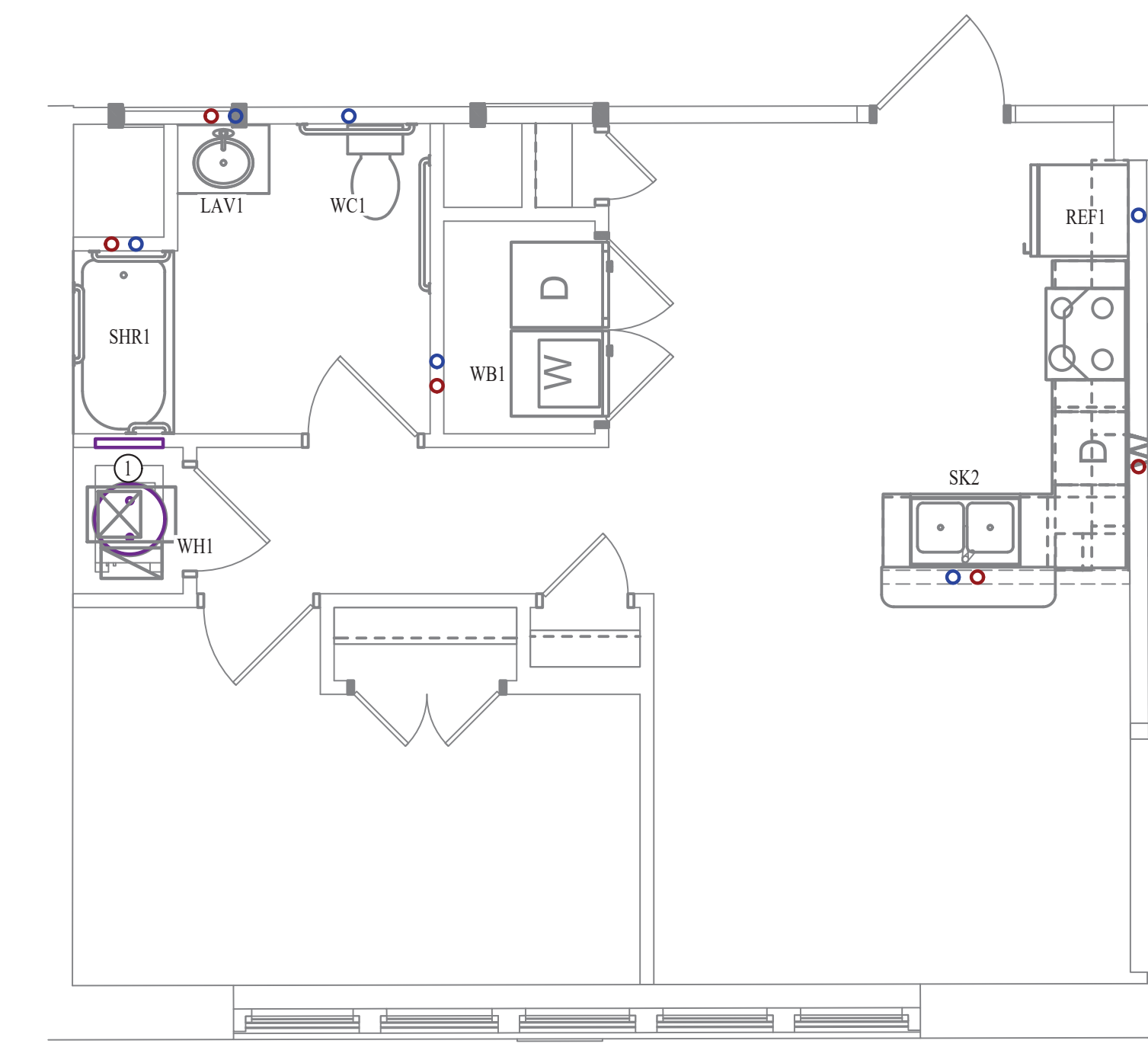


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

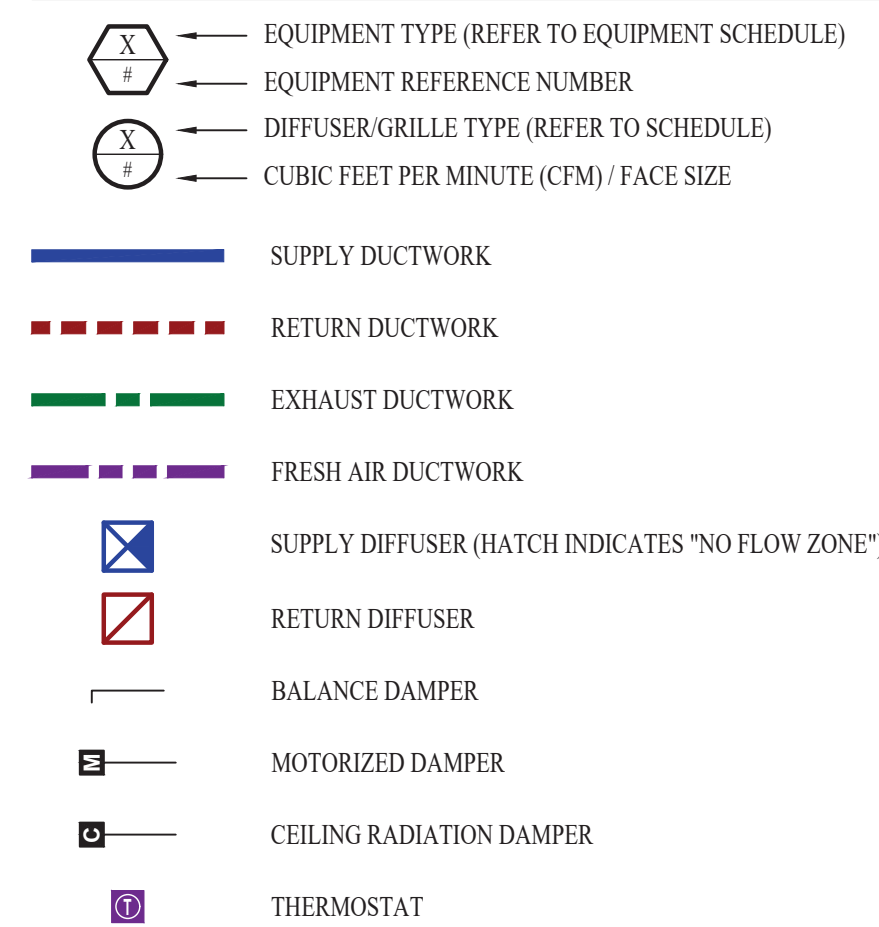
WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



WATER PLAN
SCALE: 1/4" = 1'-0"

HVAC PLAN SYMBOL LEGEND

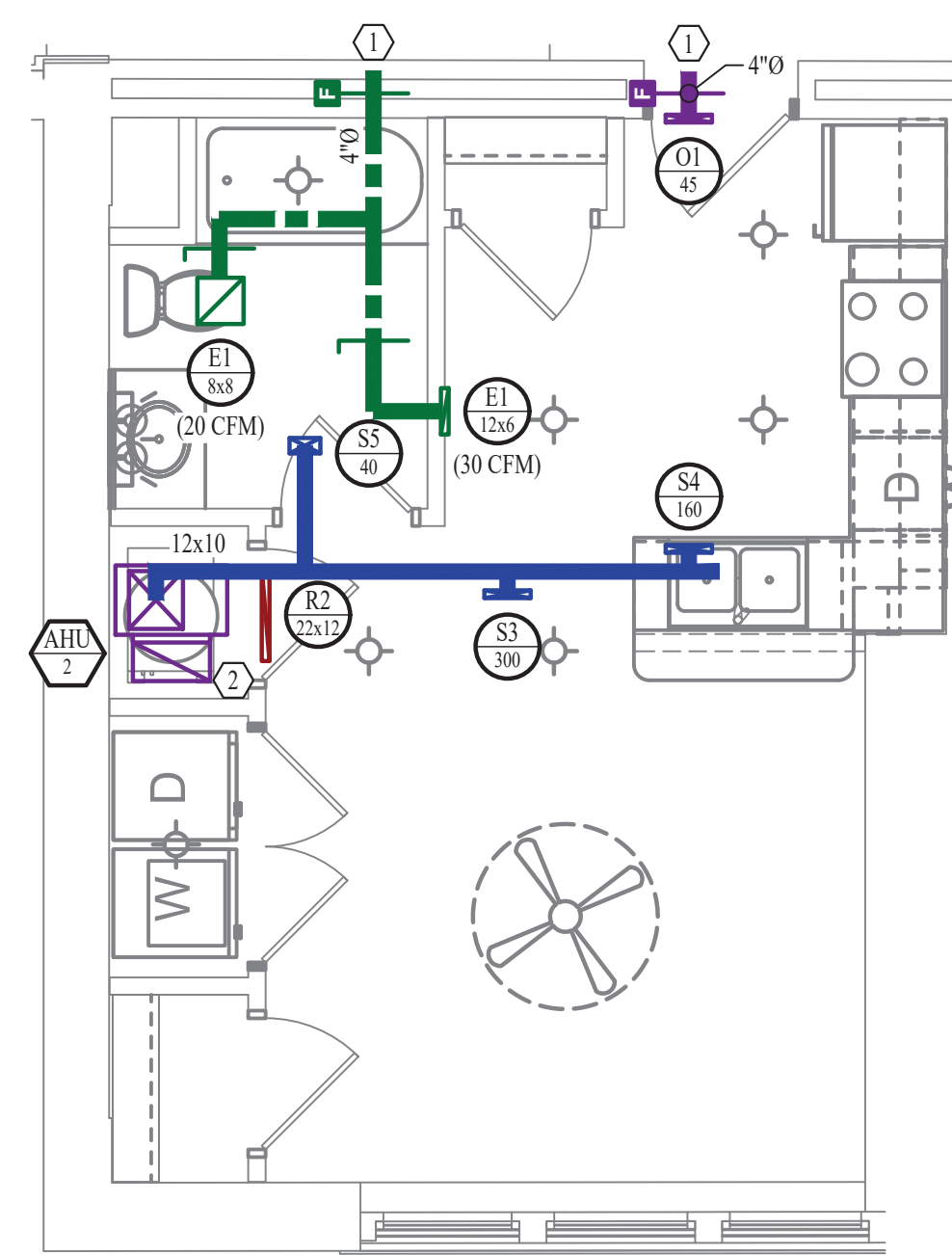


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

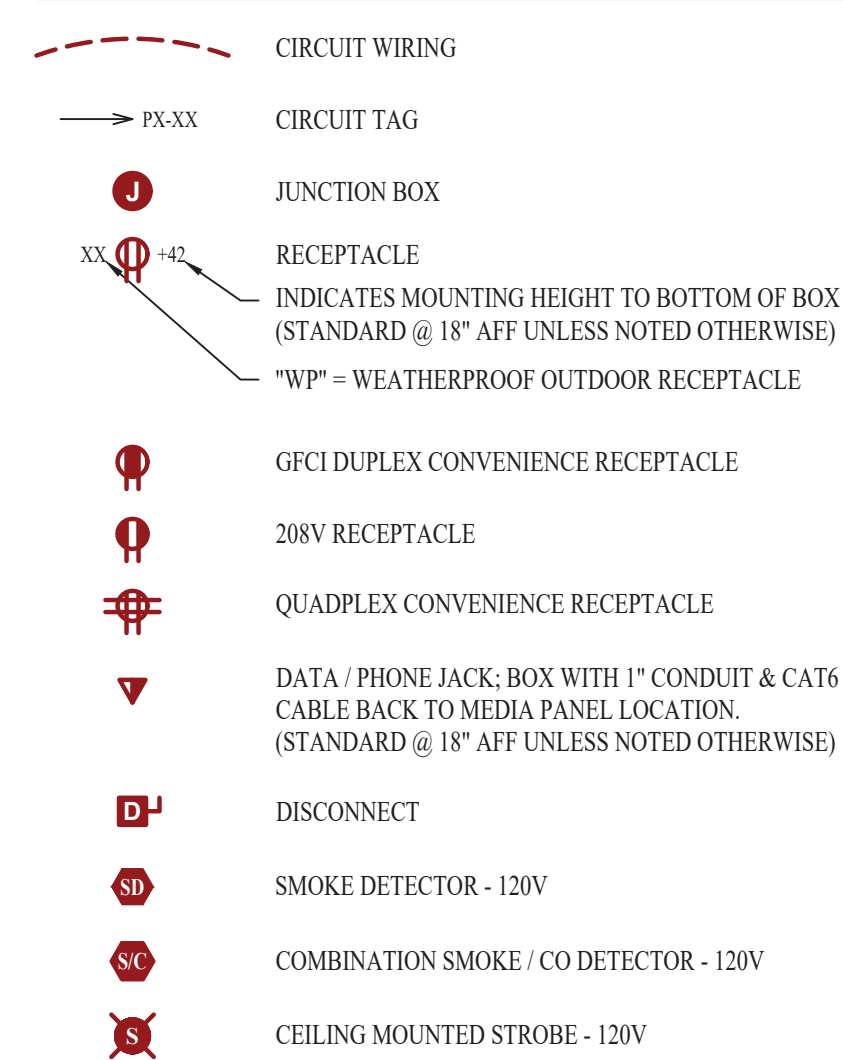
- ① SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- ② REDUCE SUPPLY AIR FLOW AT UNIT TO 500 CFM.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

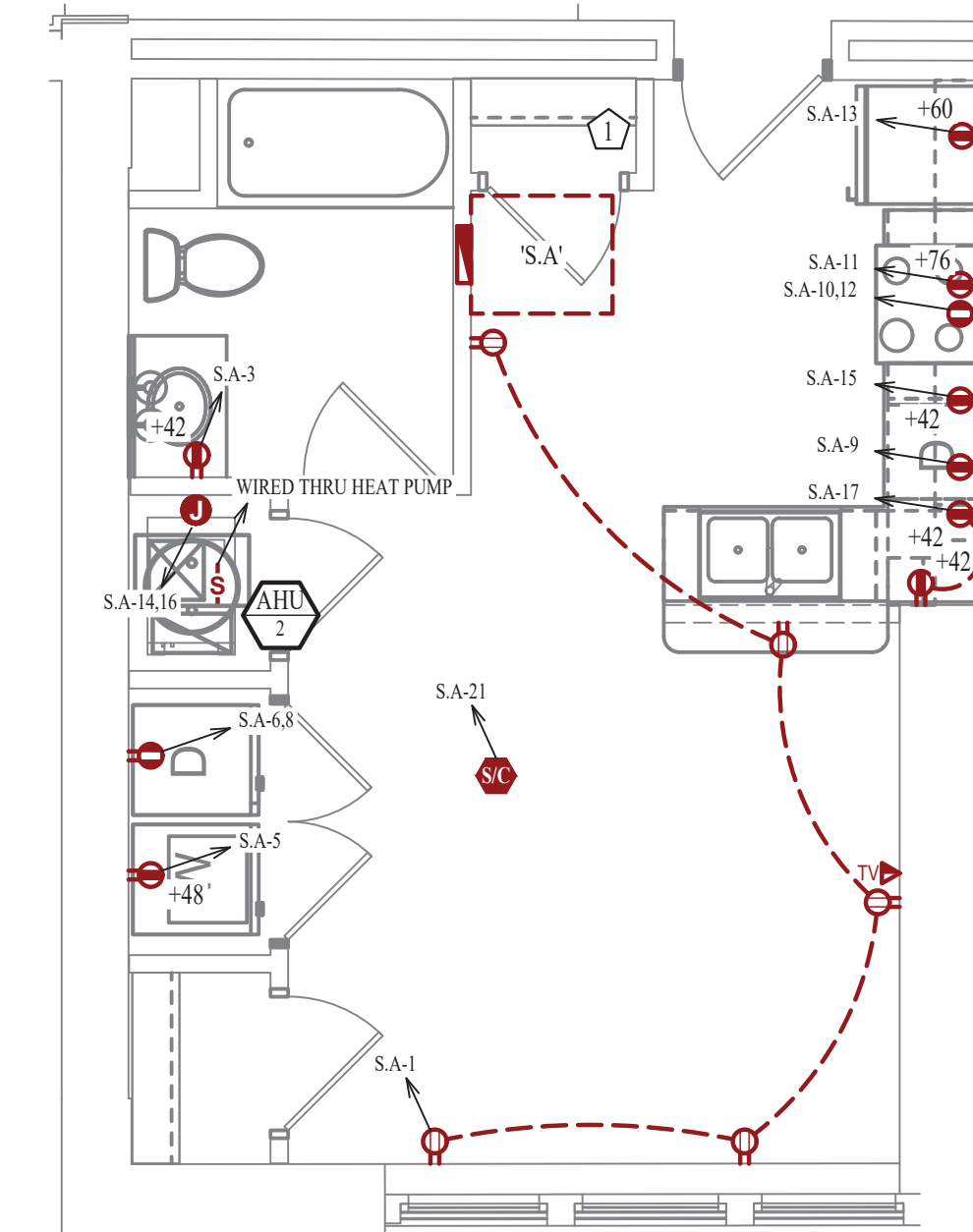


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

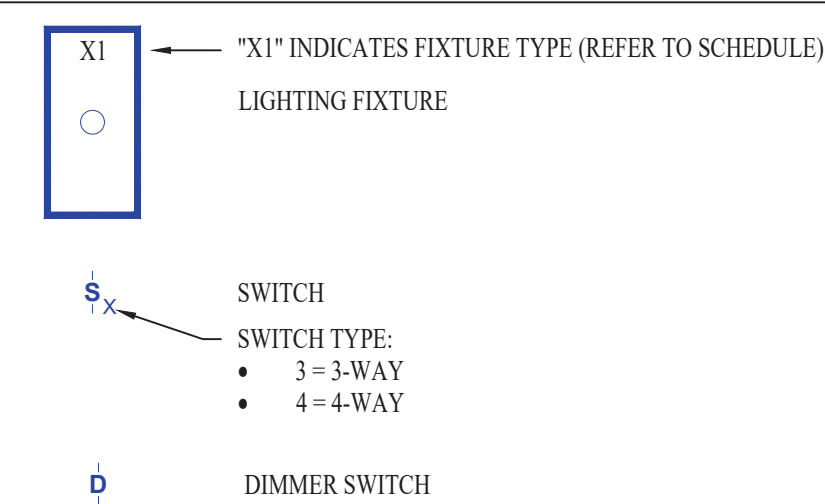
- ① MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

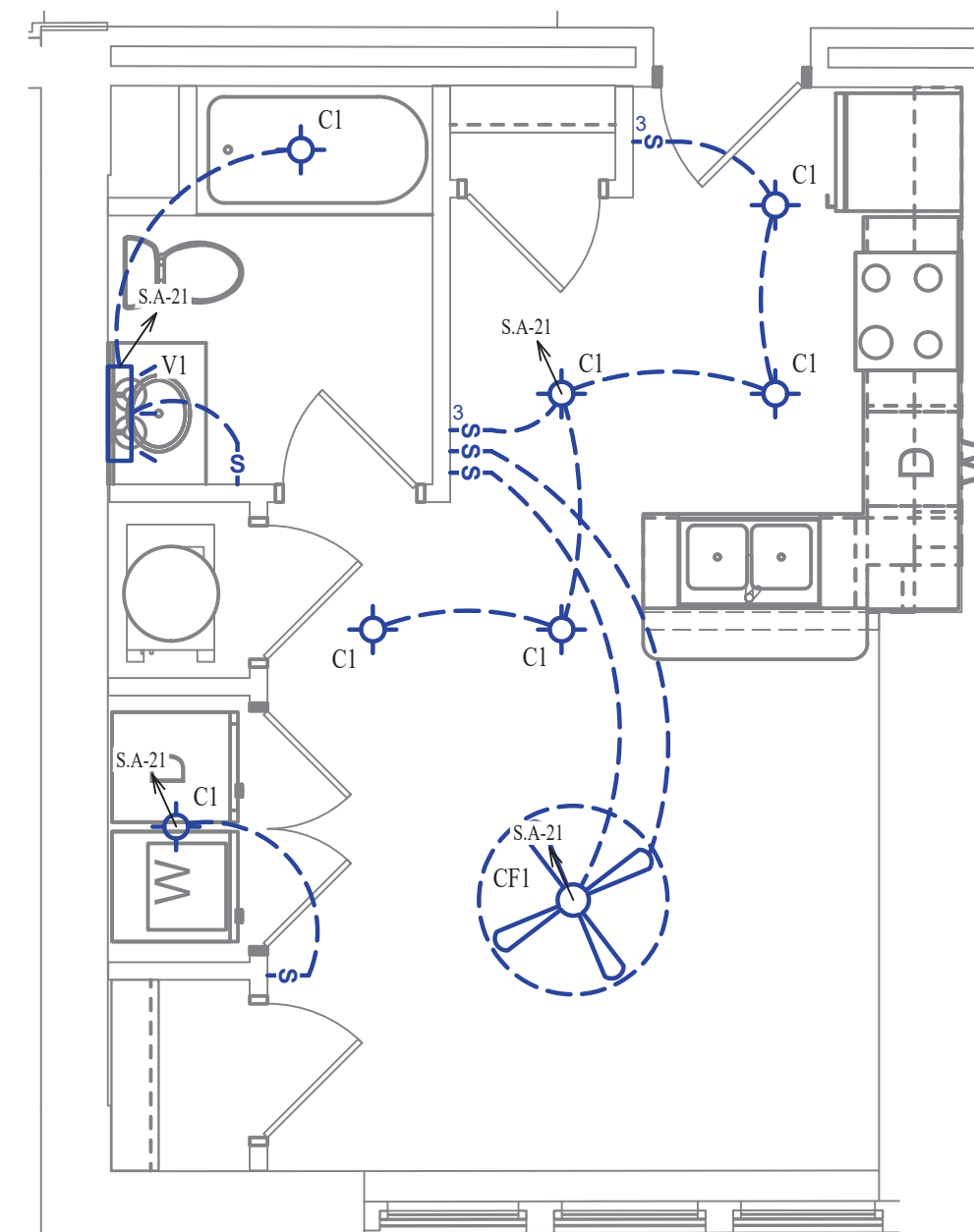
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

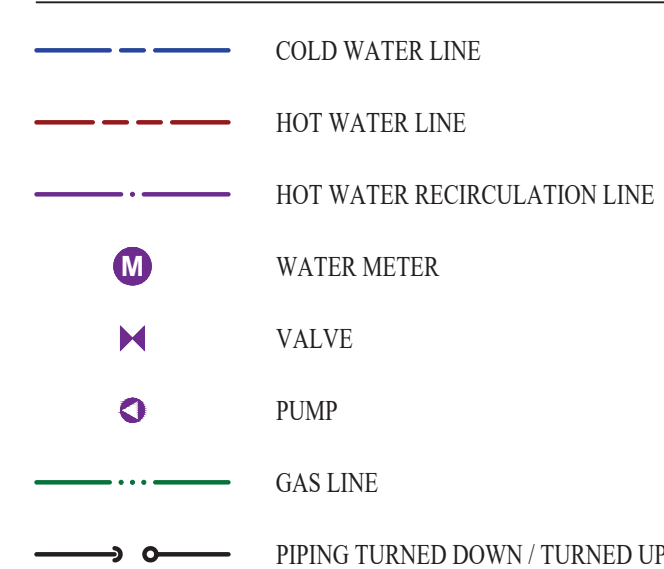
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

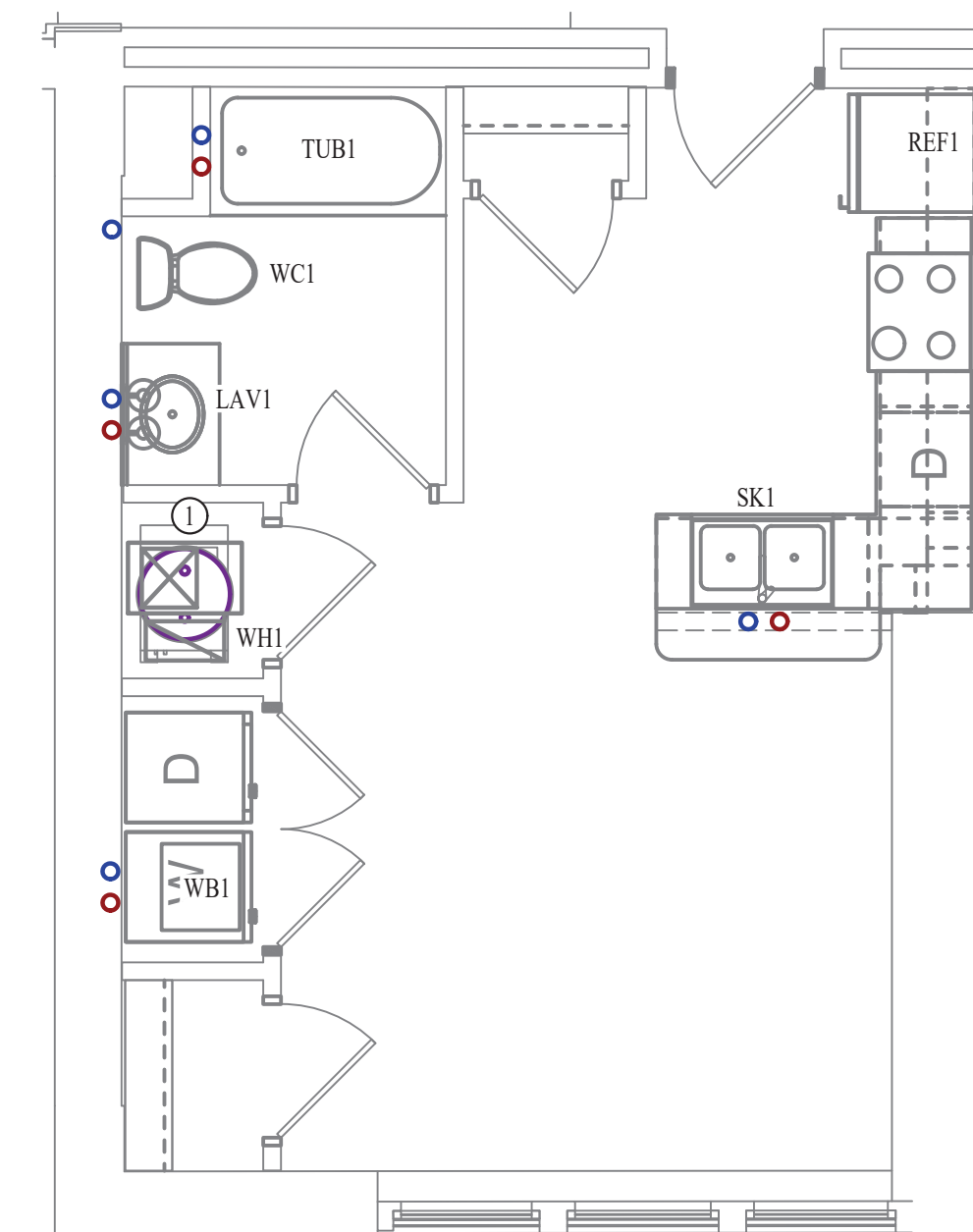


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

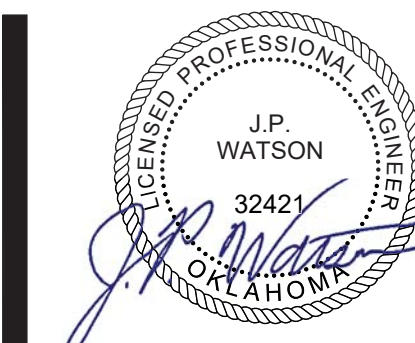
WATER PLAN KEY NOTES:

- ① 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

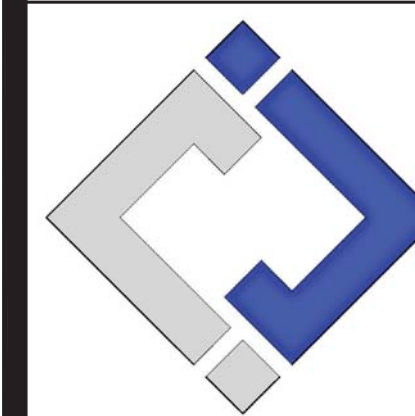


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
PE-32421
OK Certificate of Authority # 8654



J-SQUARED ENGINEERING
2401 Bernadette Drive, Suite 201
Columbia, Missouri 65203
573 - 234 - 4492 phone
www.j-squaredeng.com

J2 PROJECT No: J20395
J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
1537 NE 24th Street
Oklahoma City, OK, 73111

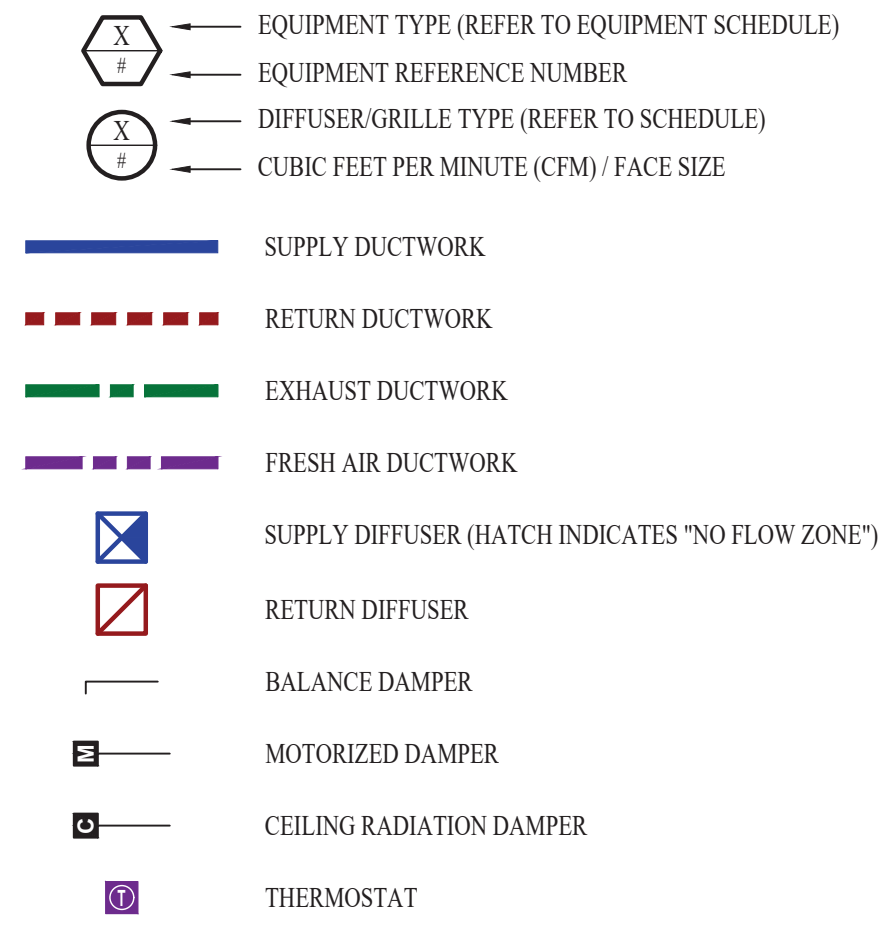
SHEET TITLE

STUDIO-A UNIT PLAN

SHEET NUMBER

UP-S.A

HVAC PLAN SYMBOL LEGEND

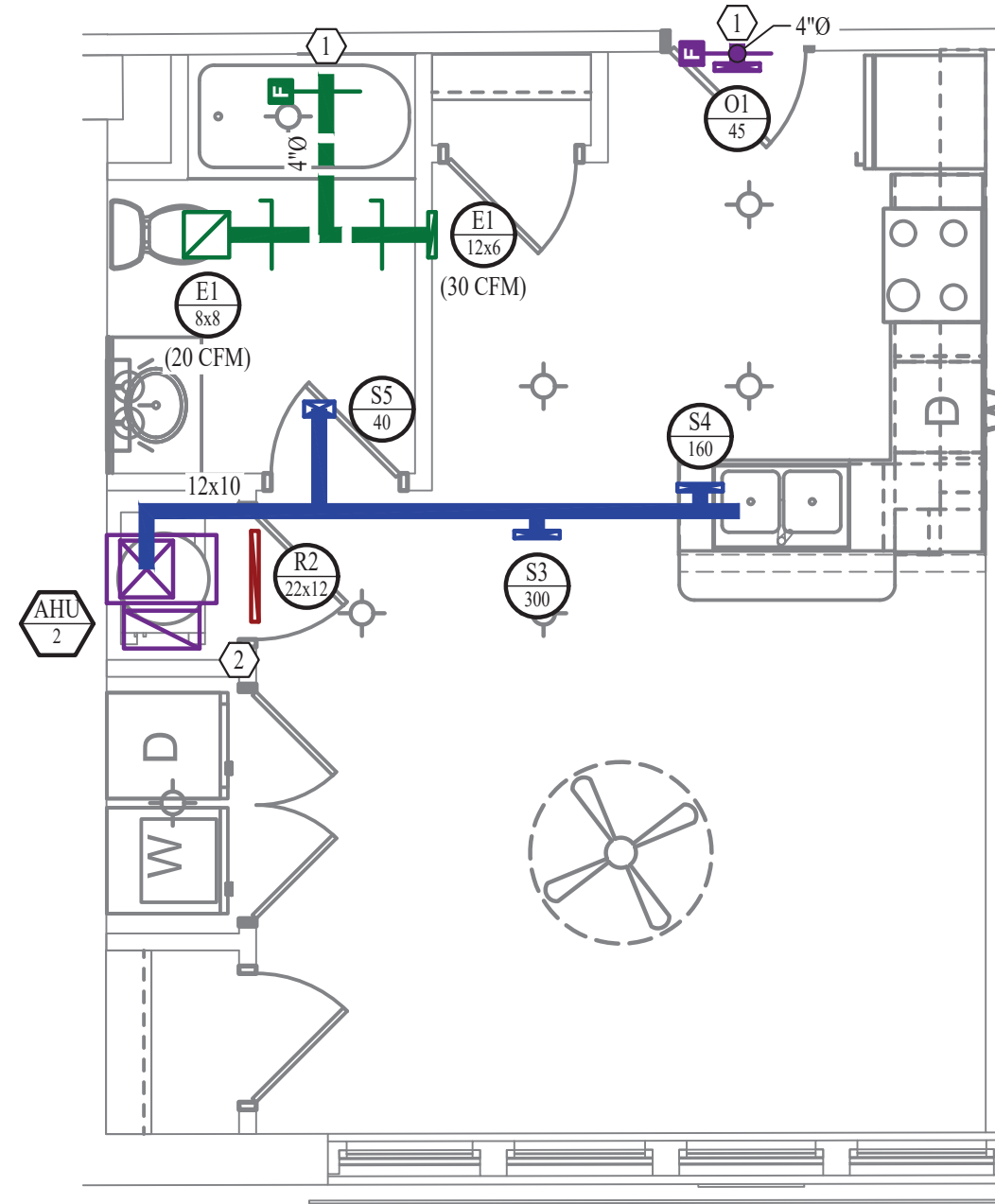


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

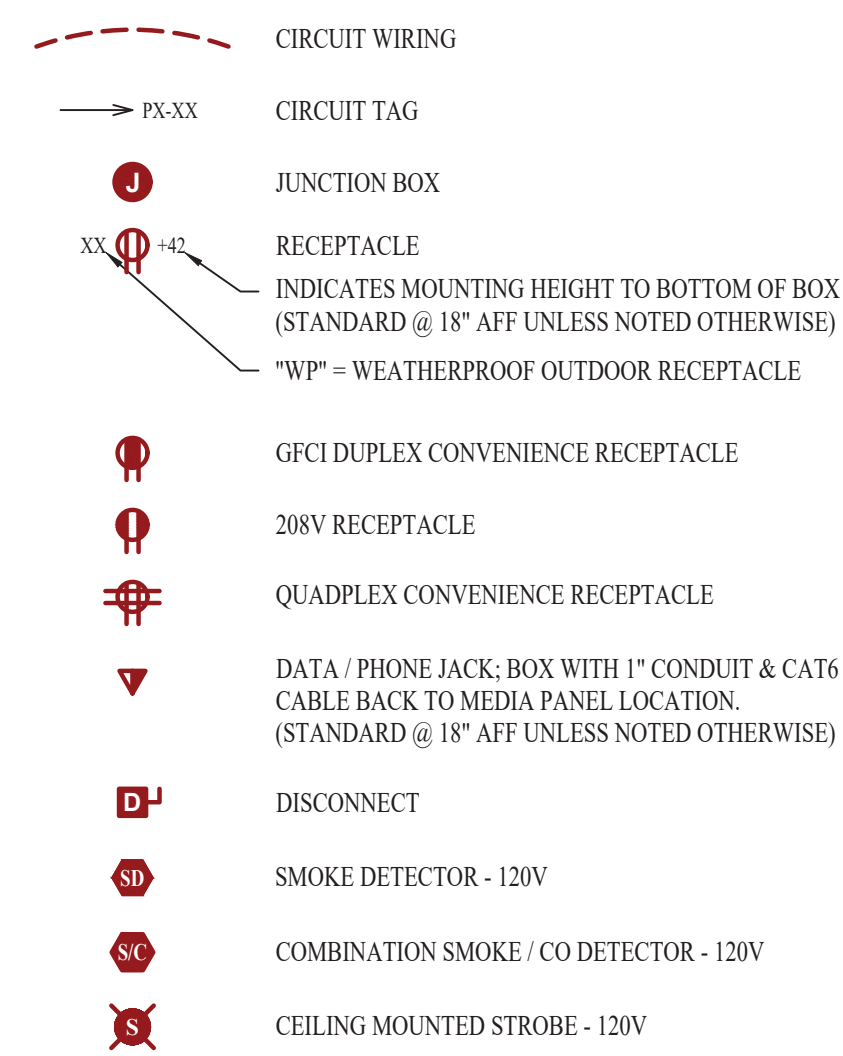
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- REDUCE SUPPLY AIR FLOW AT UNIT TO 500 CFM.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

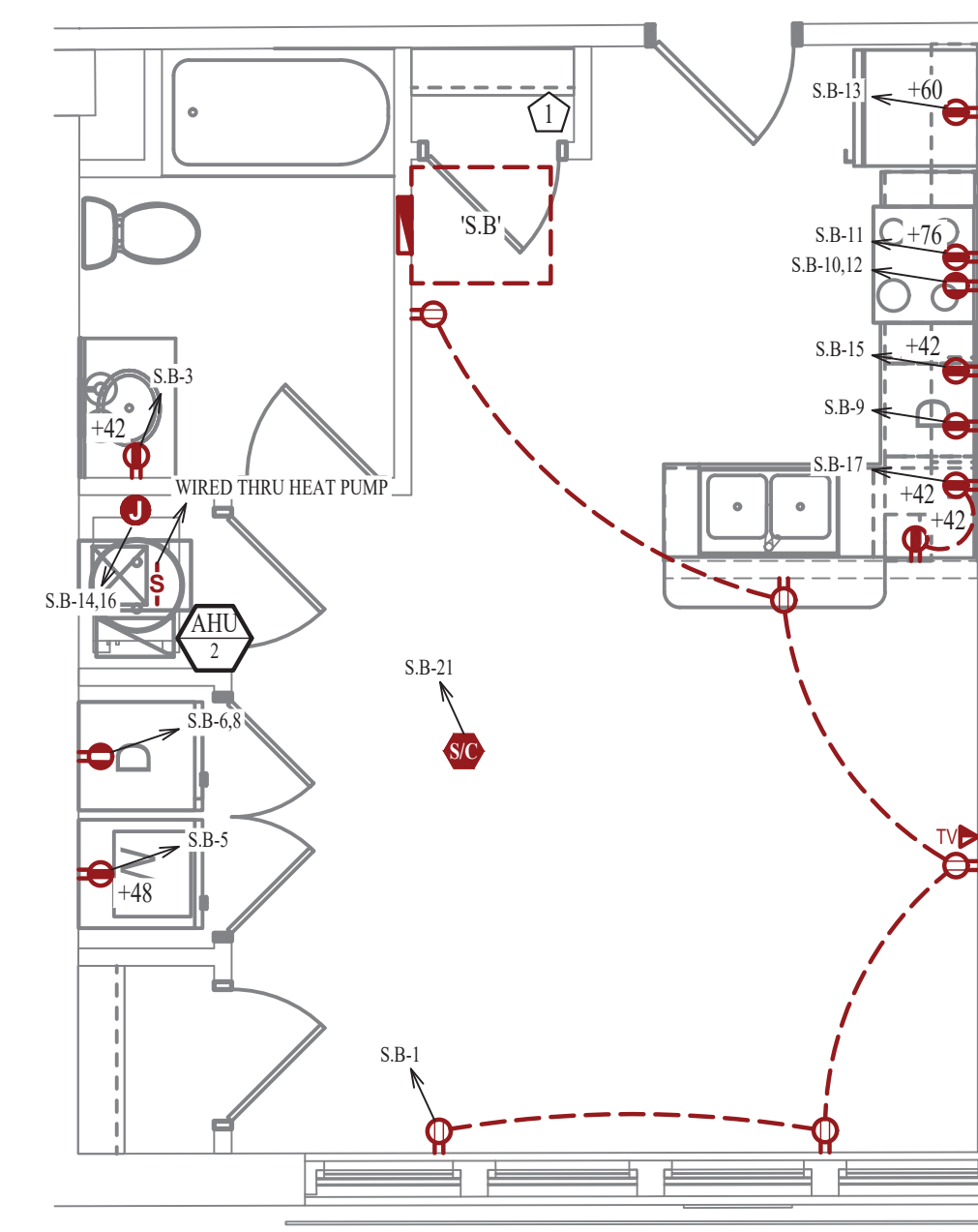


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

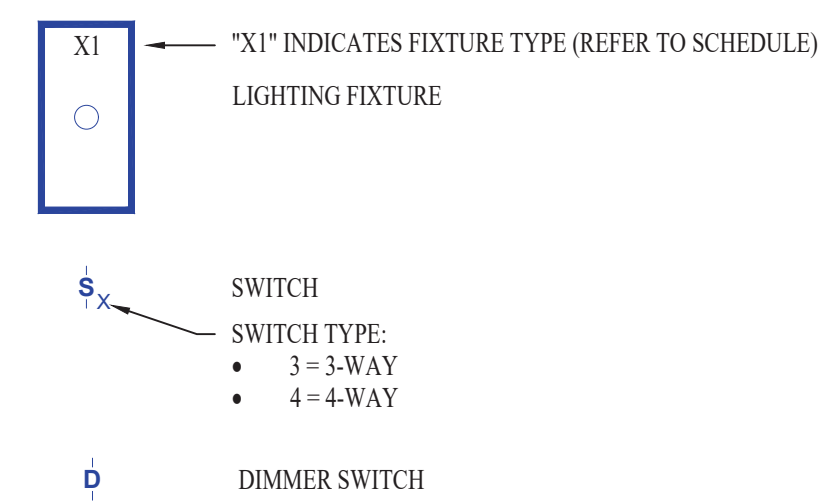
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

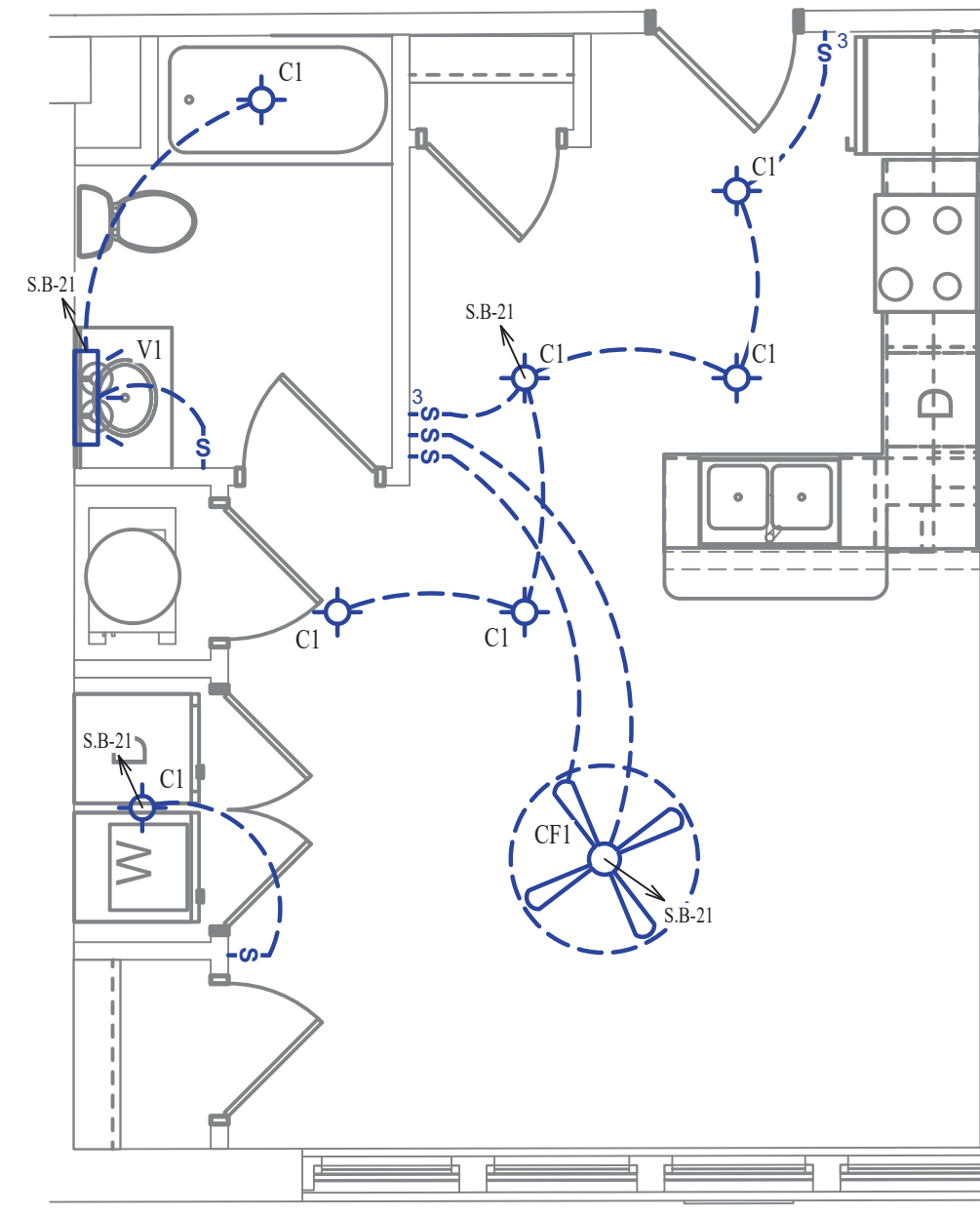
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

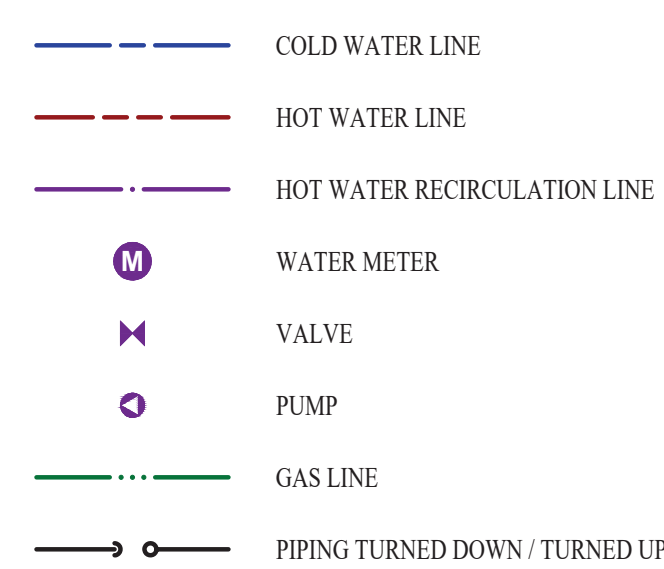
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

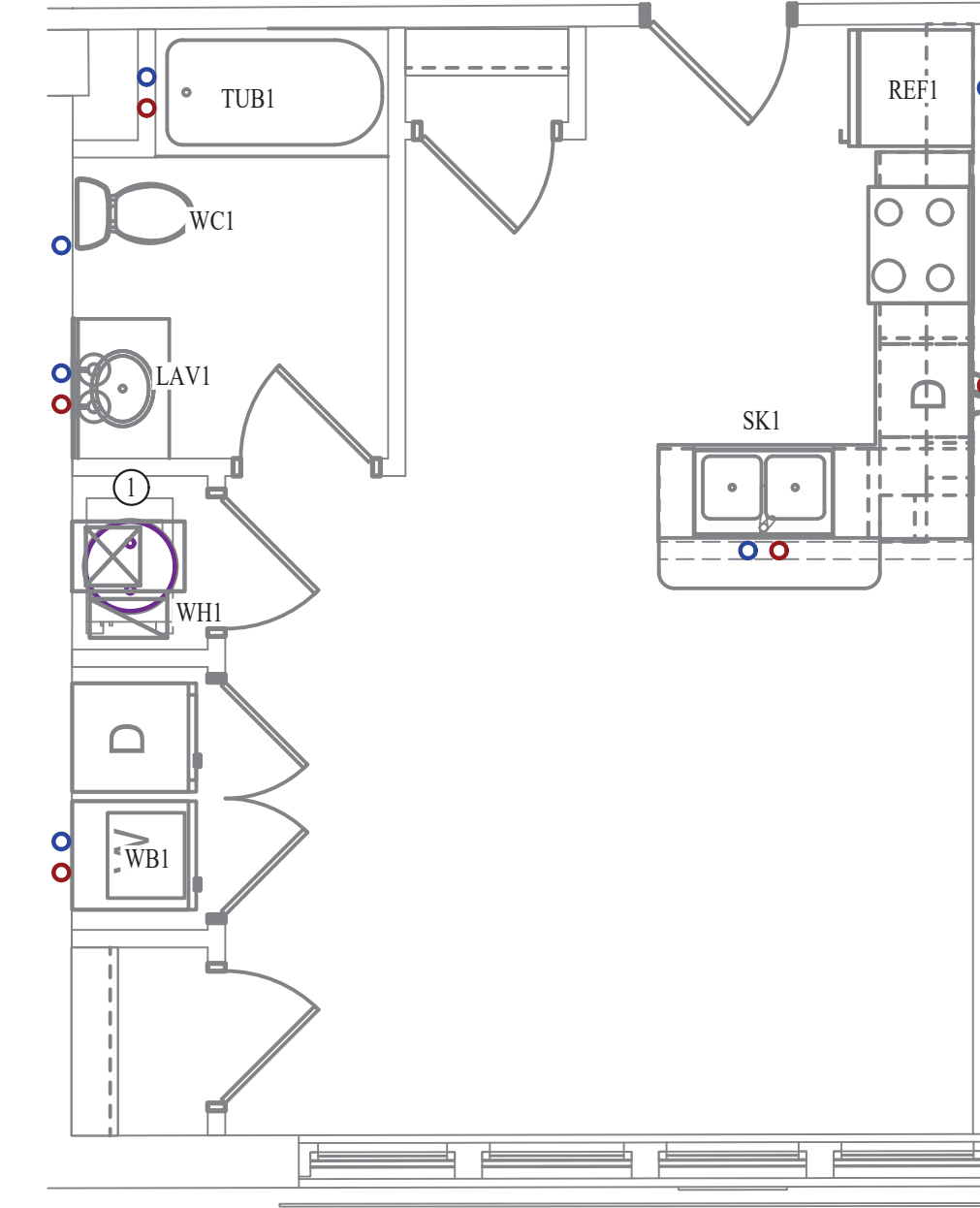


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

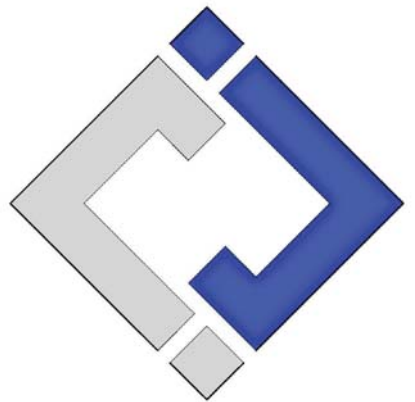


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
PE-32421
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**J-SQUARED
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2401 Bernadette Drive, Suite 201
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J2 PROJECT No: J20395

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Mechanical - Electrical - Plumbing Design Drawings for

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1537 NE 24th Street
Oklahoma City, OK, 73111

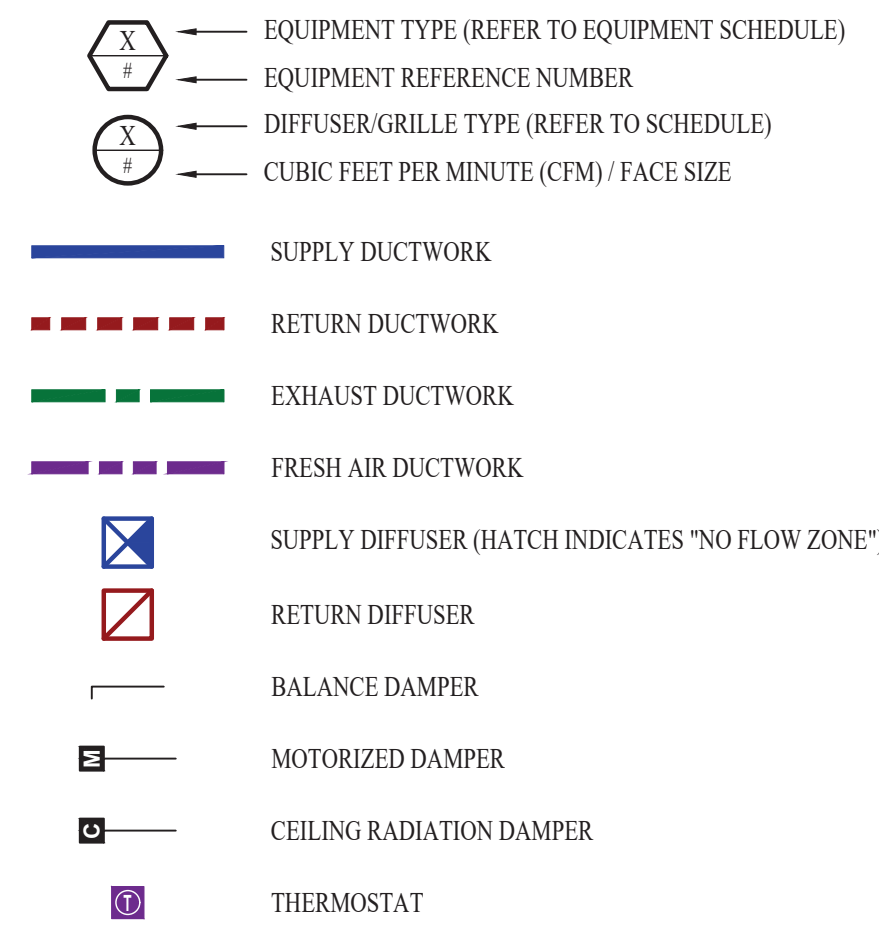
SHEET TITLE

STUDIO-B UNIT PLAN

SHEET NUMBER

UP-S.B

HVAC PLAN SYMBOL LEGEND

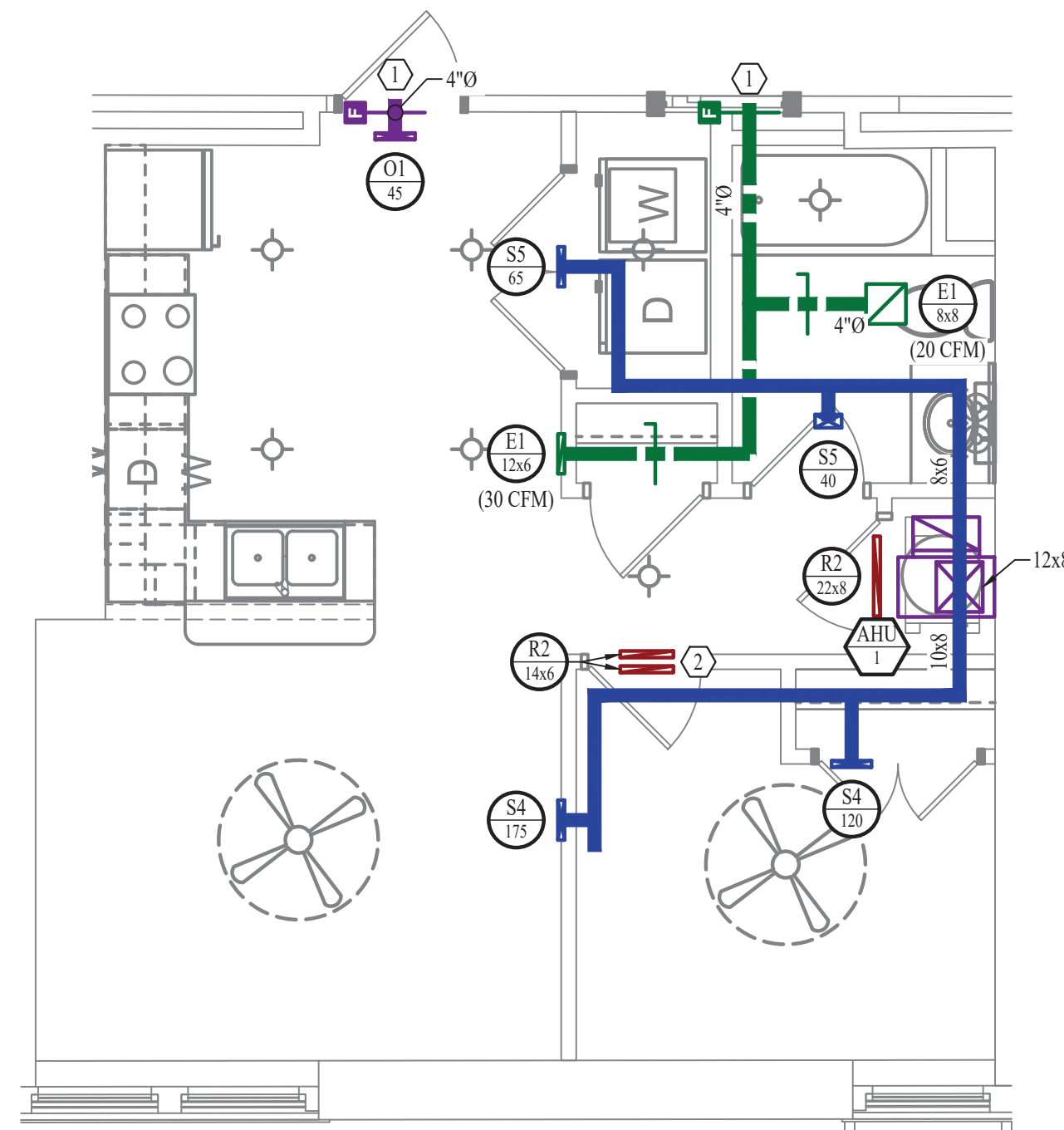


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
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- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

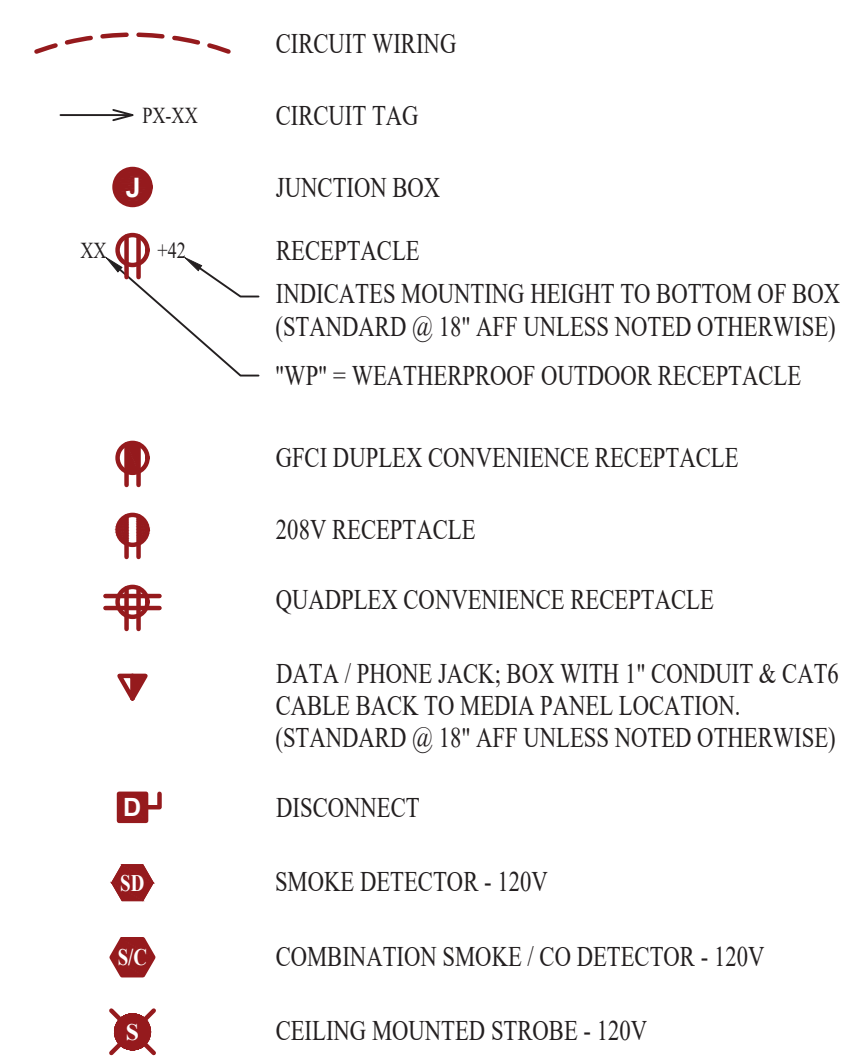
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

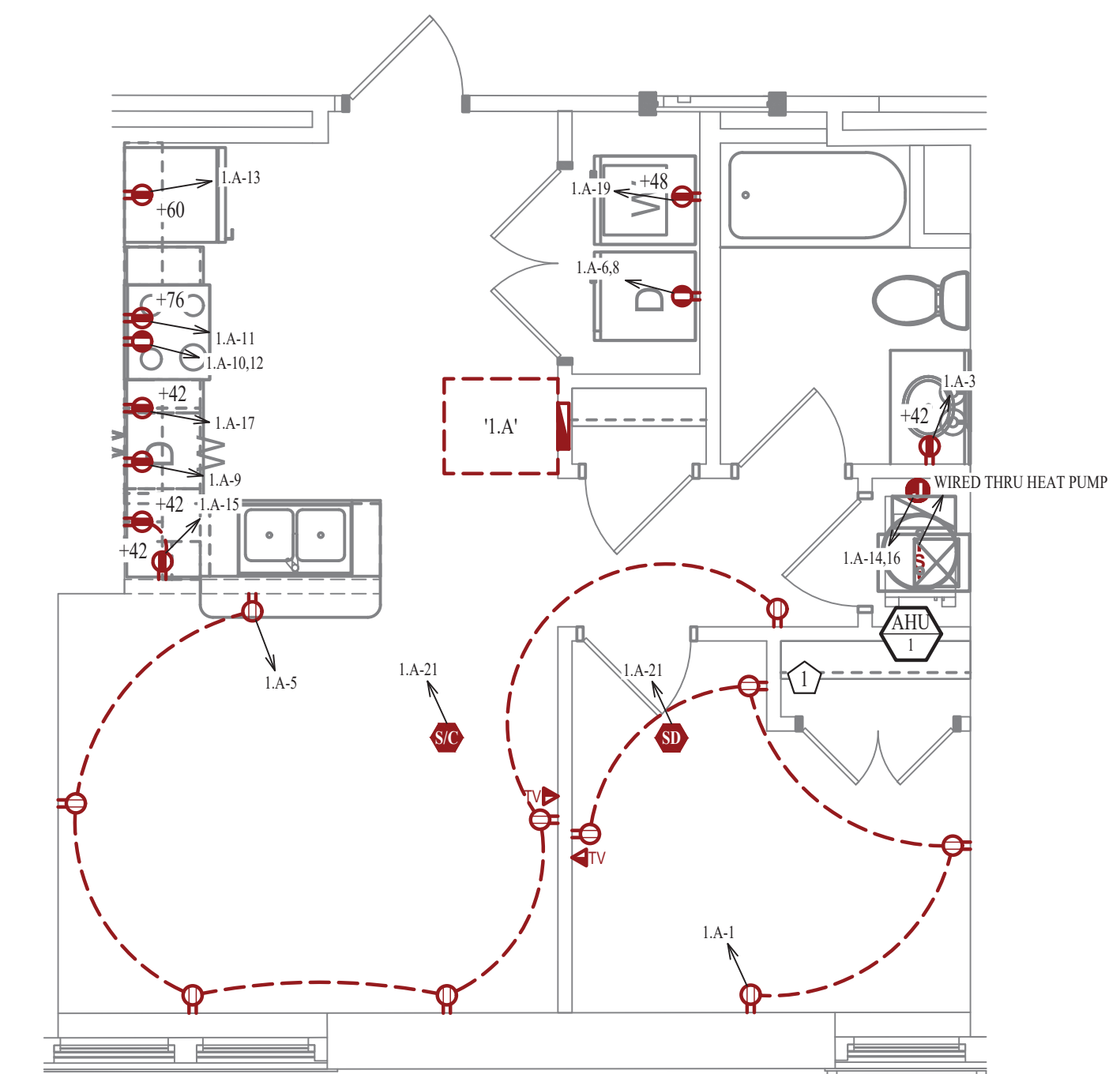


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

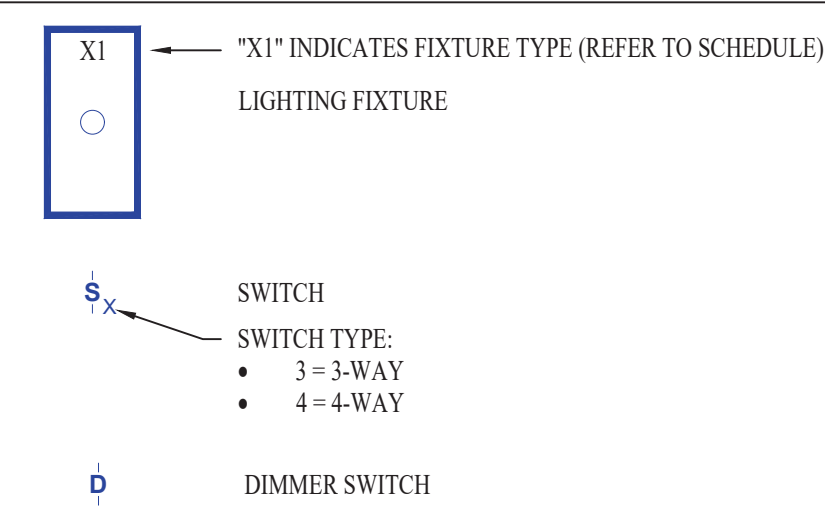
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

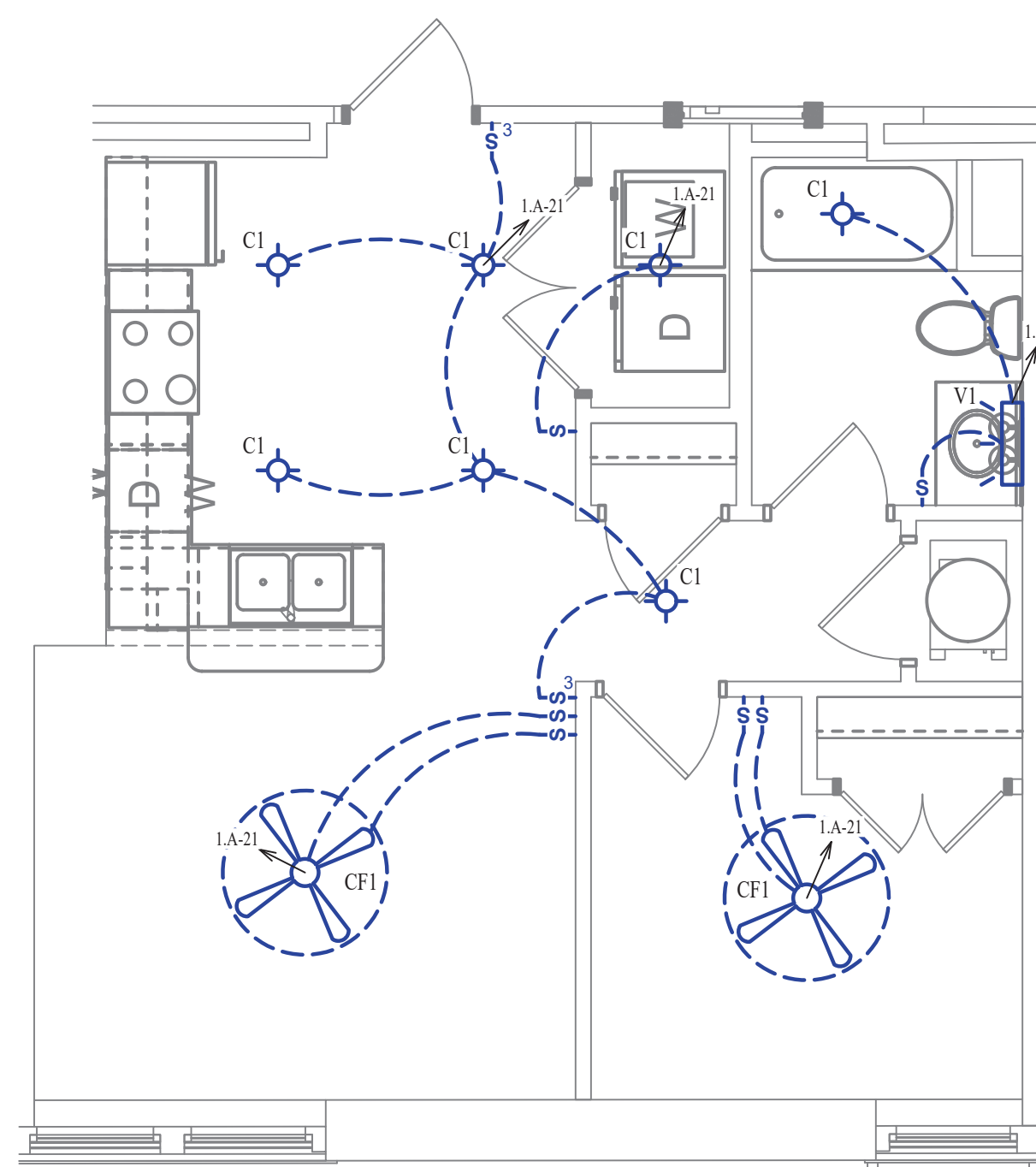
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

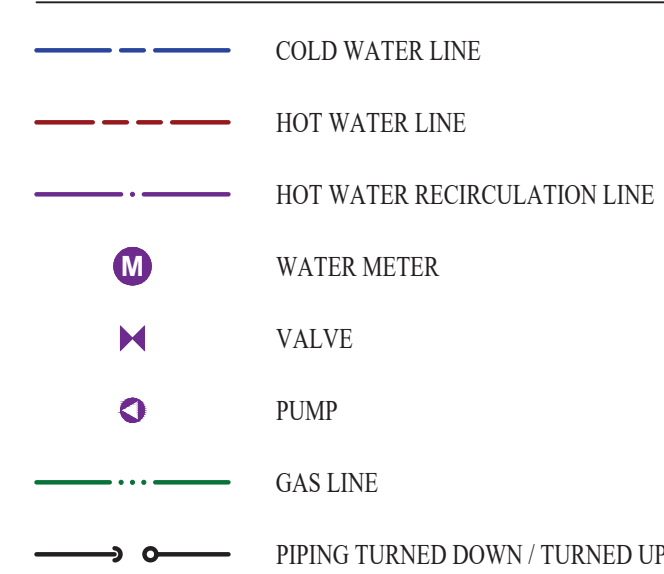
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

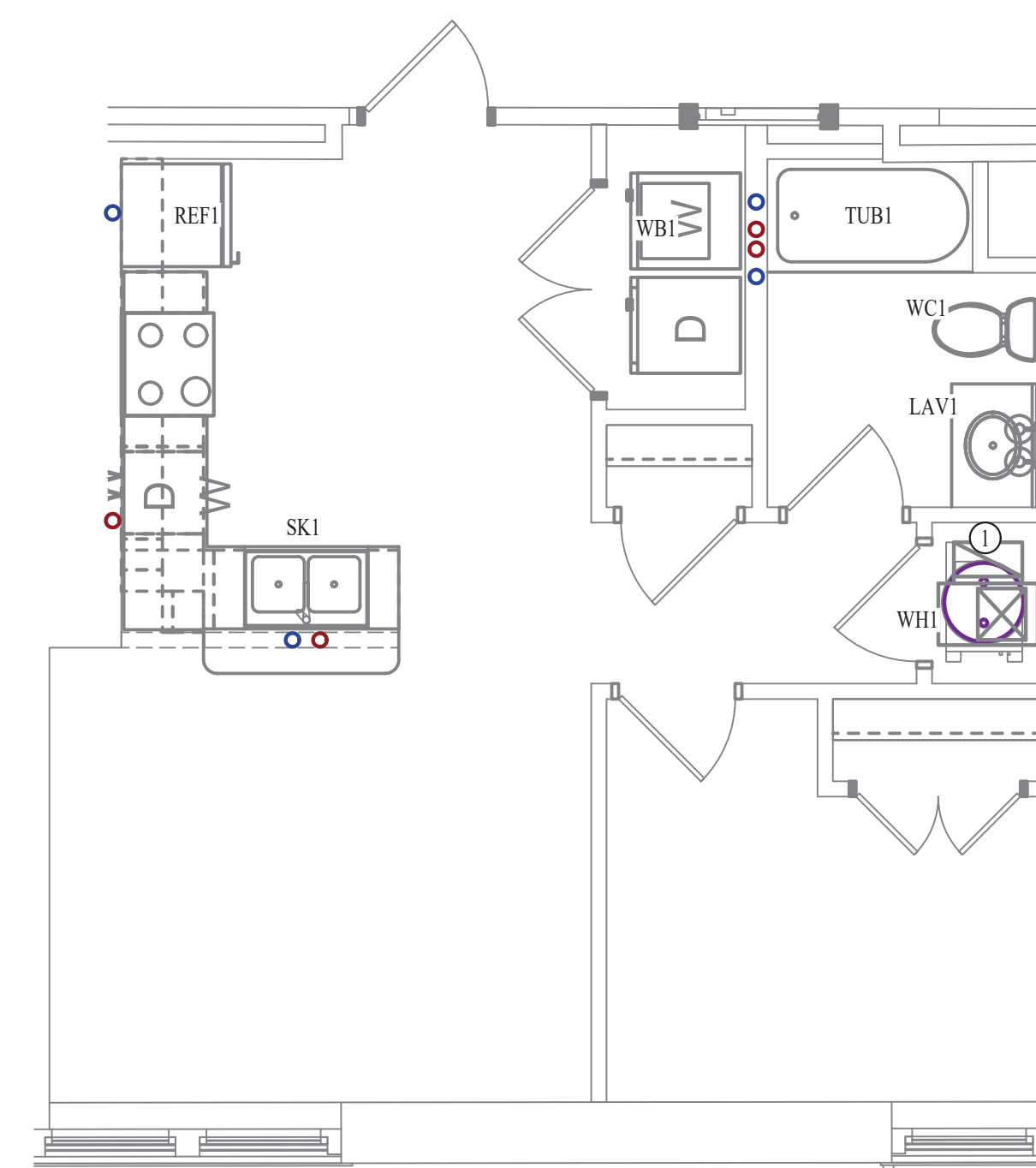


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

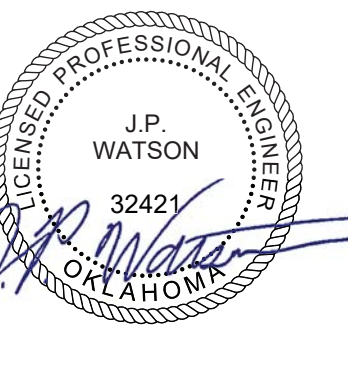
WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

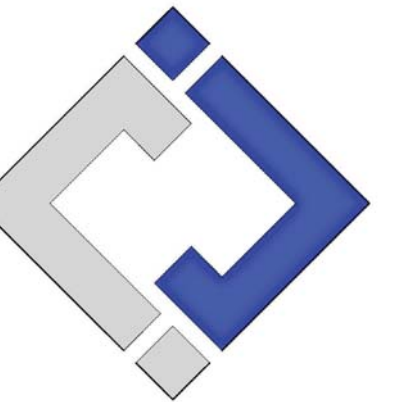


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
PE-32421
OK Certificate of Authority # 8654



J-SQUARED ENGINEERING

2401 Bernadette Drive, Suite 201
Columbia, Missouri 65203
573 - 234 - 4492 phone
www.j-squaredeng.com

J2 PROJECT No:	J20395
J2 DESIGN:	KEL

ISSUE TITLE	DATE
PERMIT SET	10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
1537 NE 24th Street
Oklahoma City, OK, 73111

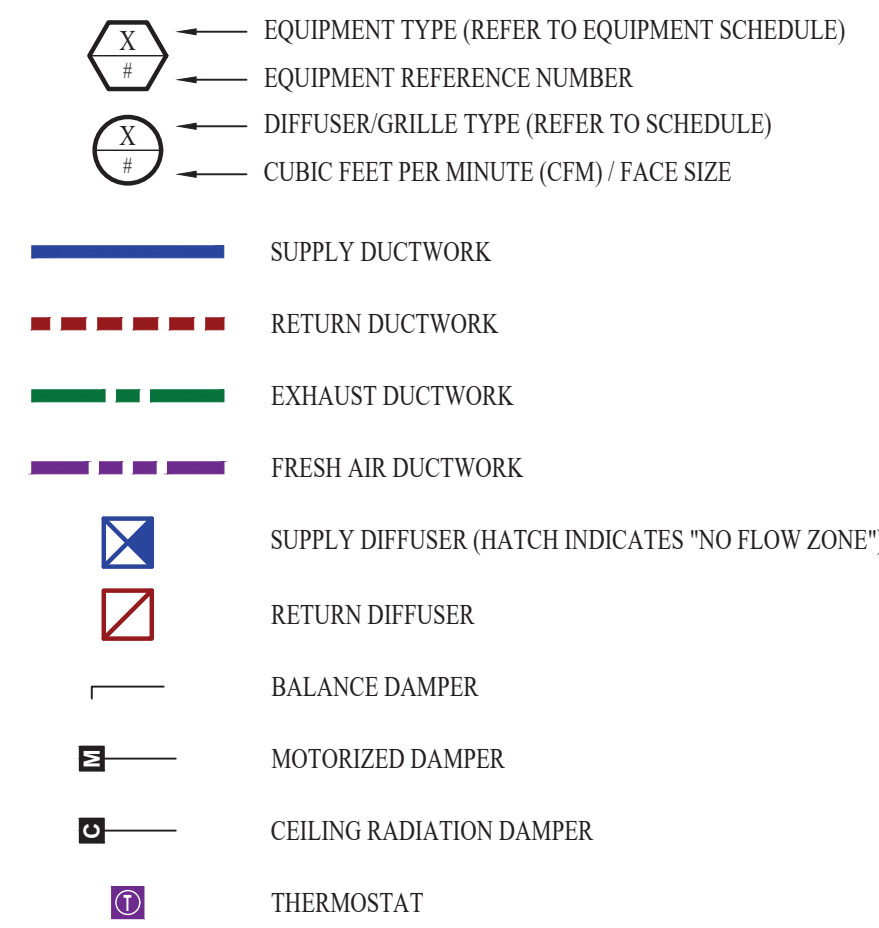
SHEET TITLE

1-BEDROOM-A UNIT PLAN

SHEET NUMBER

UP-1.A

HVAC PLAN SYMBOL LEGEND

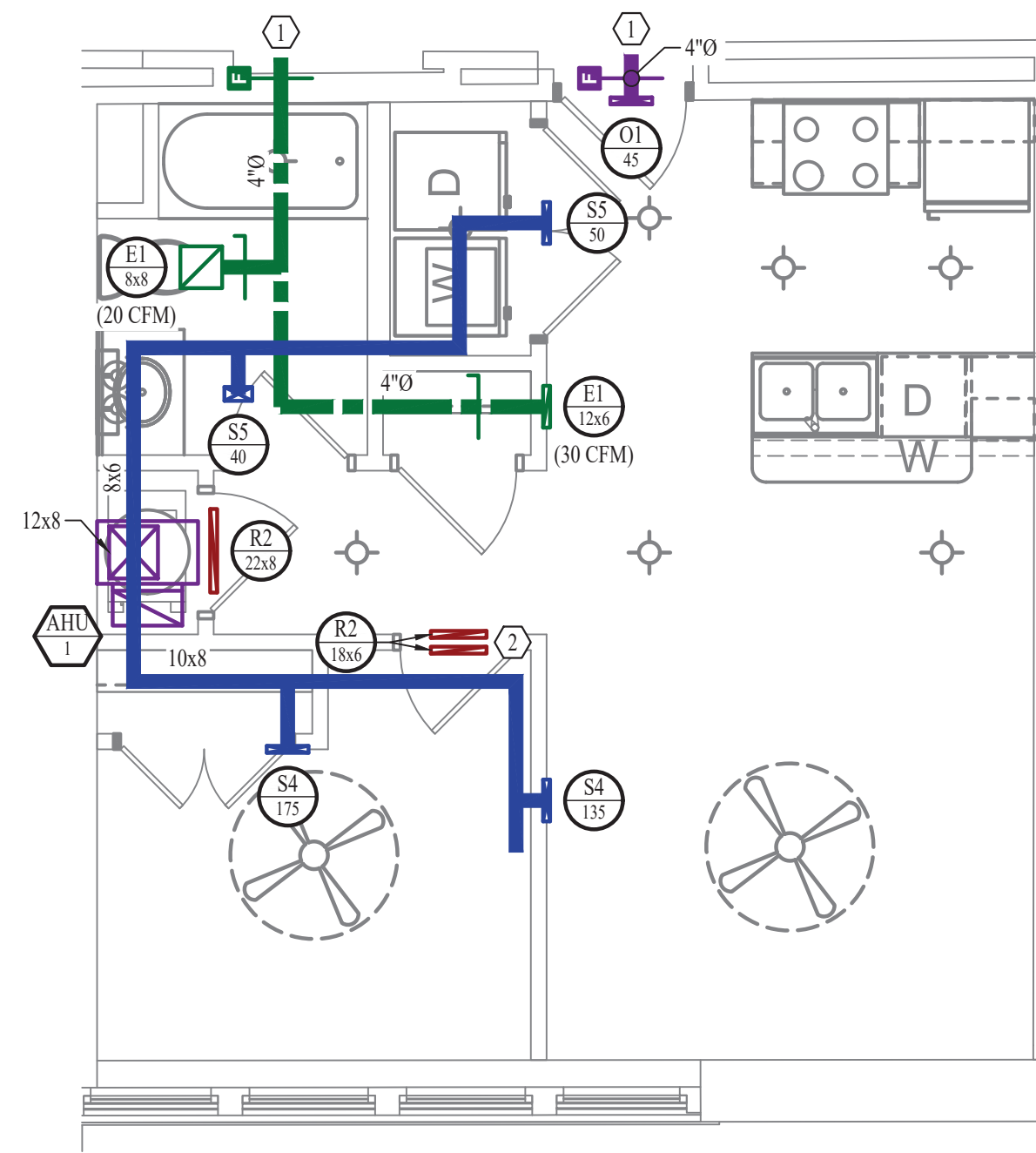


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

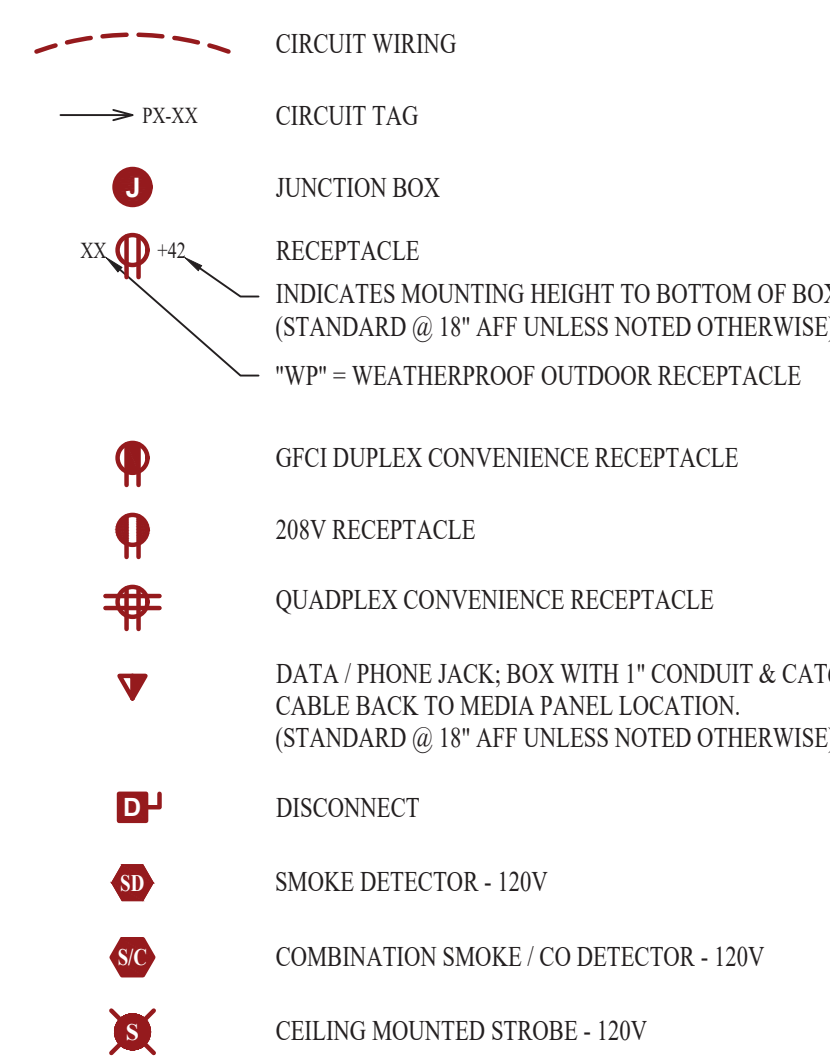
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

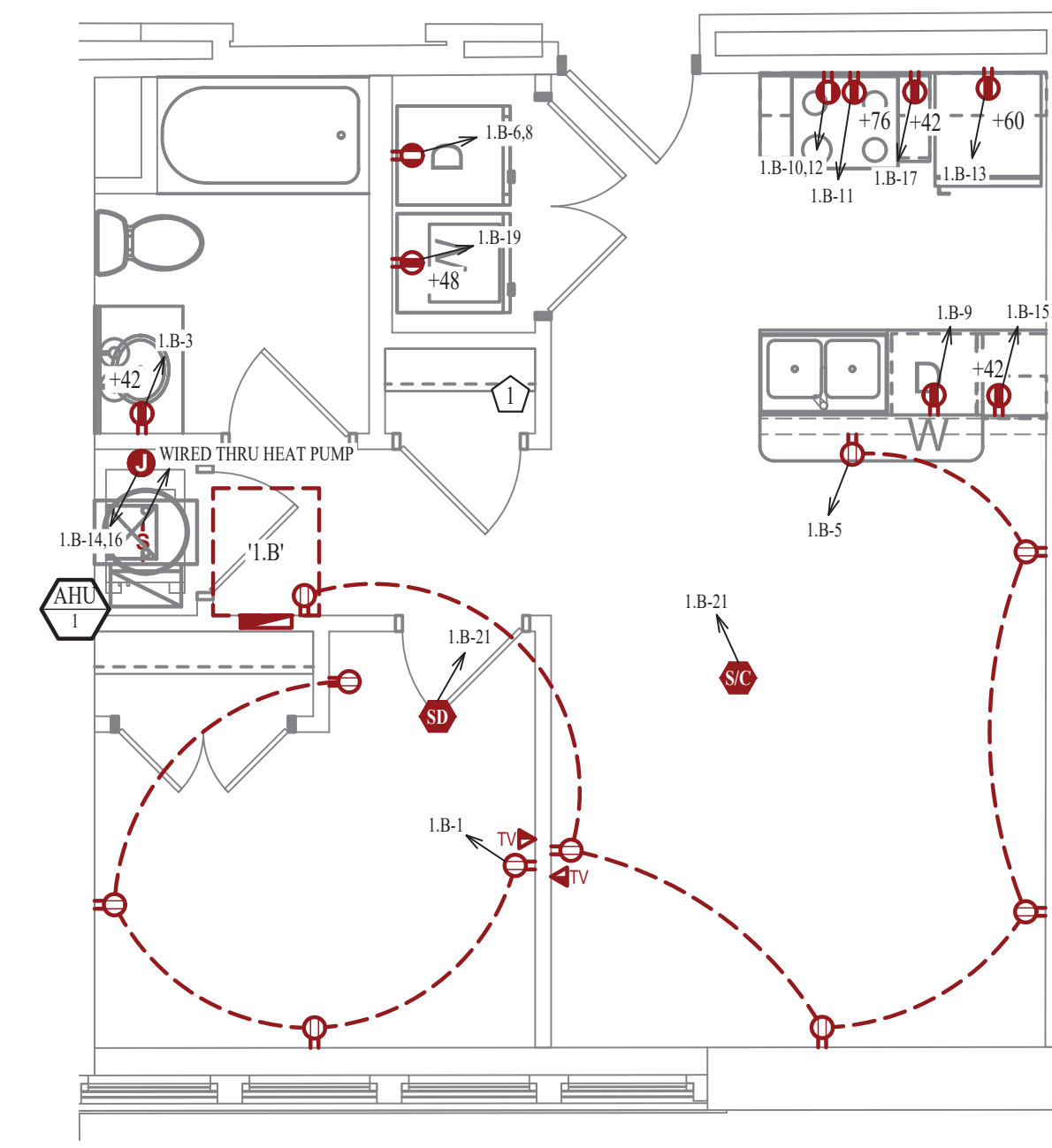


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

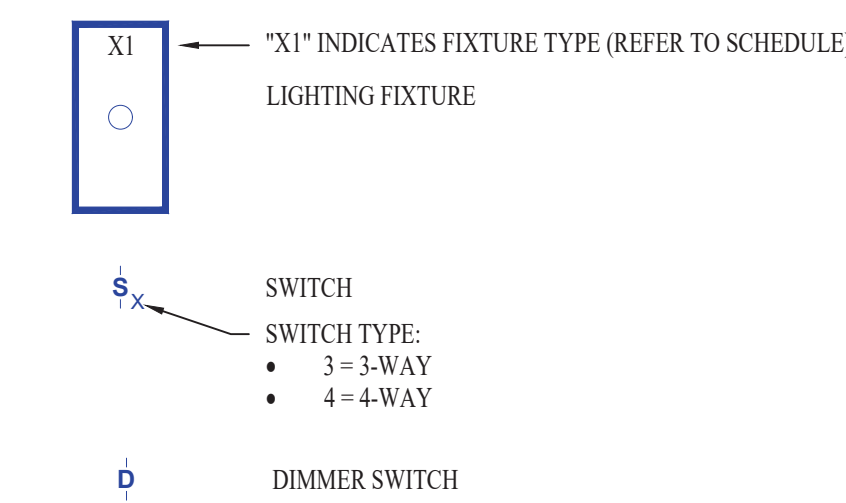
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

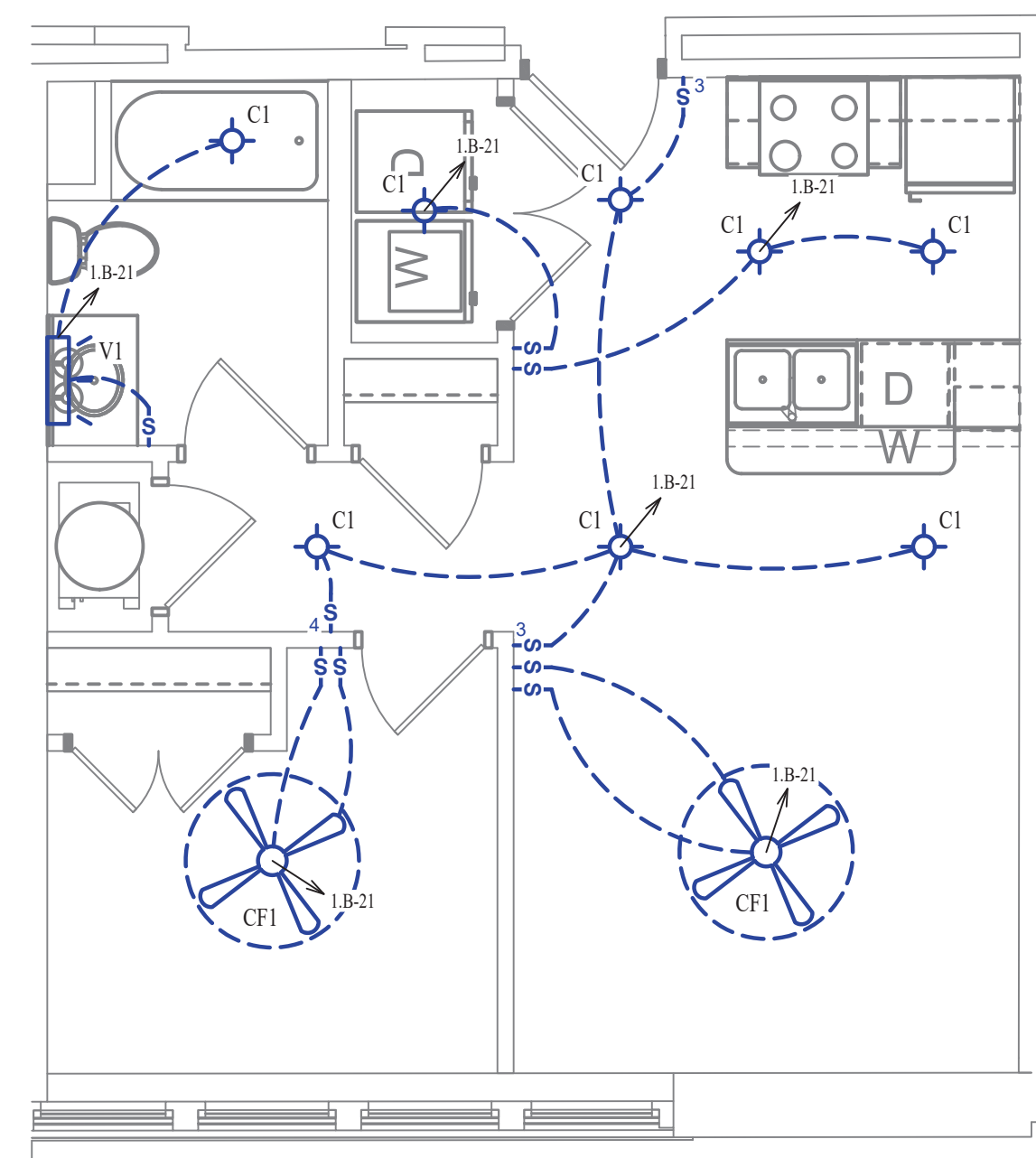
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

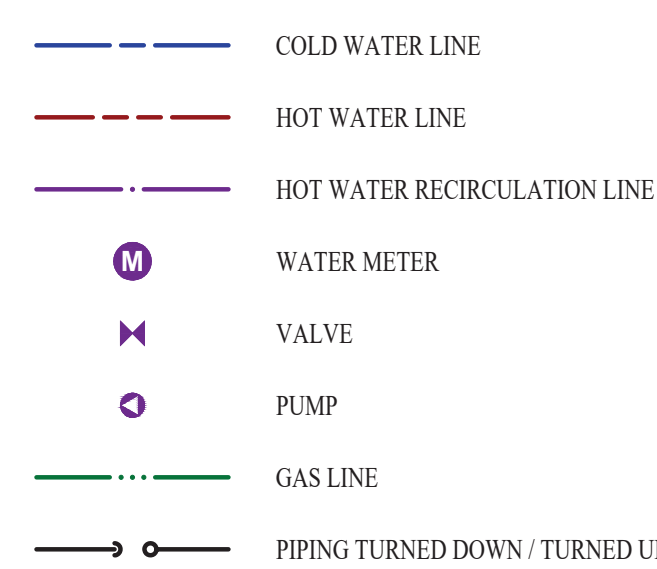
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

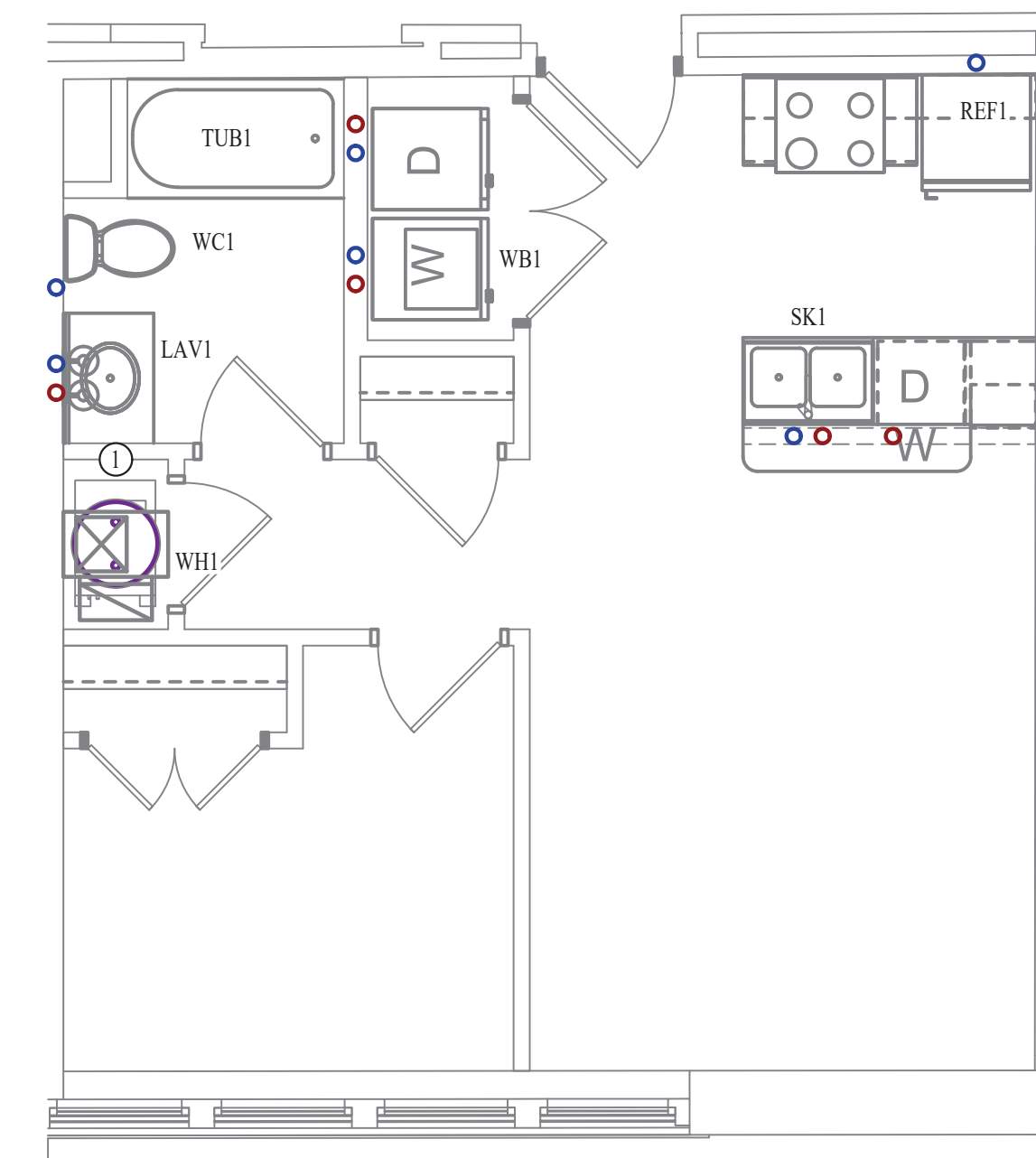


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

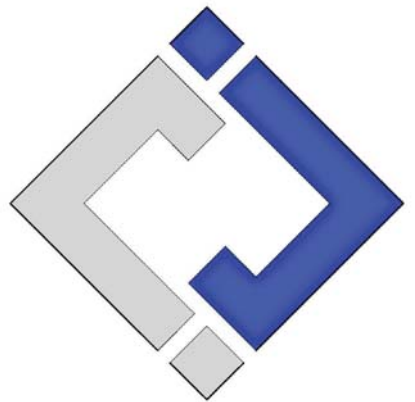


WATER PLAN

SCALE: 1/4" = 1'-0"



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J2 PROJECT No: J20395

J2 DESIGN: KEL

ISSUE TITLE DATE

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SHEET TITLE

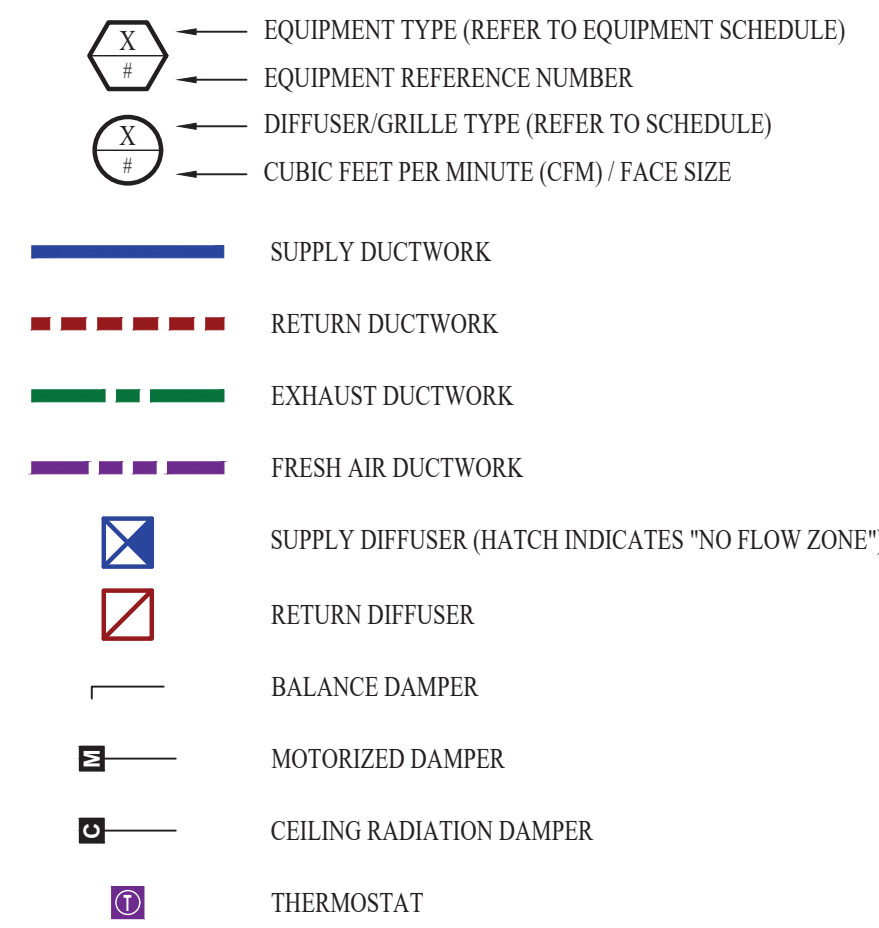
1-BEDROOM-B UNIT PLAN

SHEET NUMBER

UP-1.B

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
1537 NE 24th Street
Oklahoma City, OK, 73111

HVAC PLAN SYMBOL LEGEND

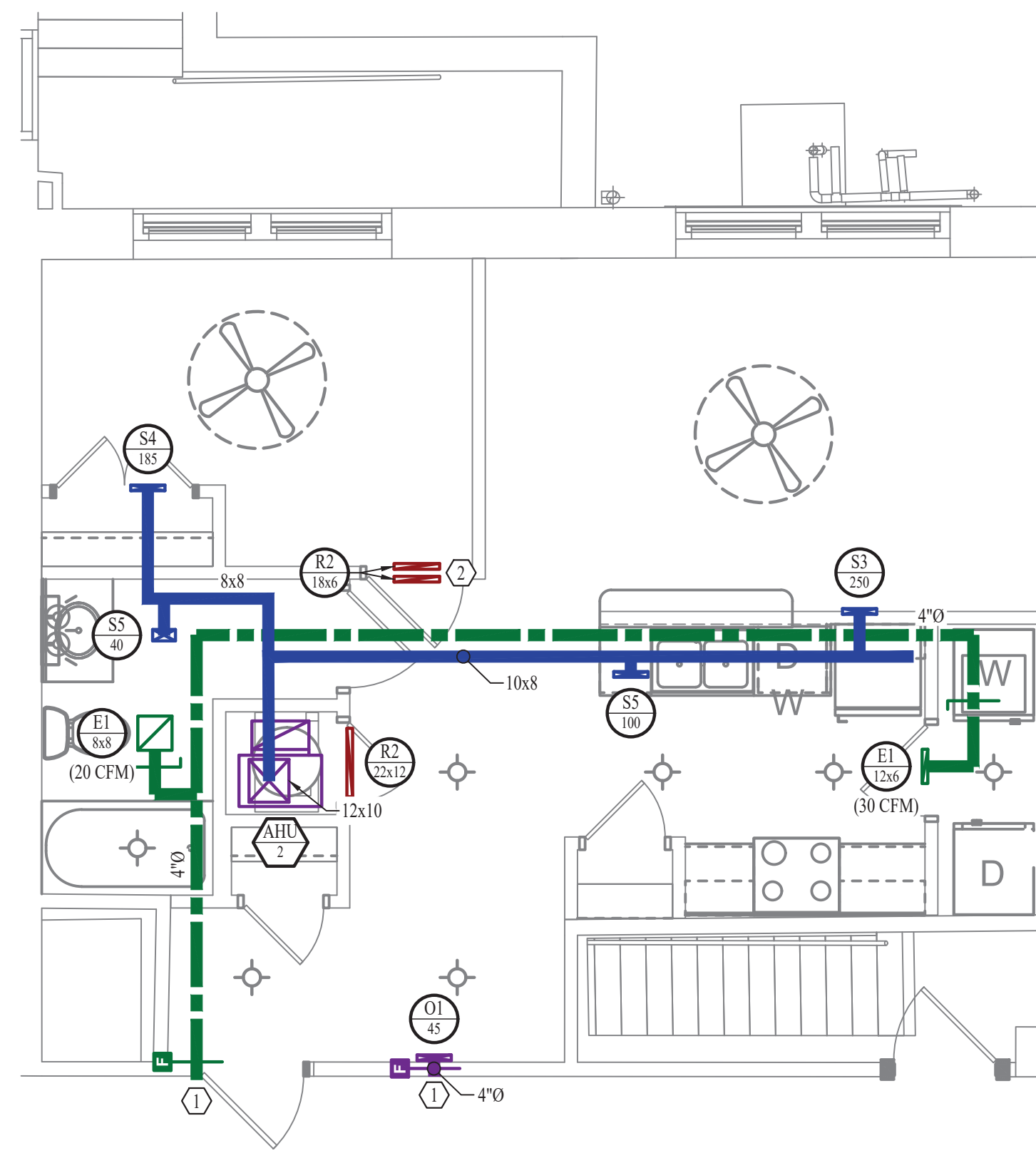


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- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
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- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

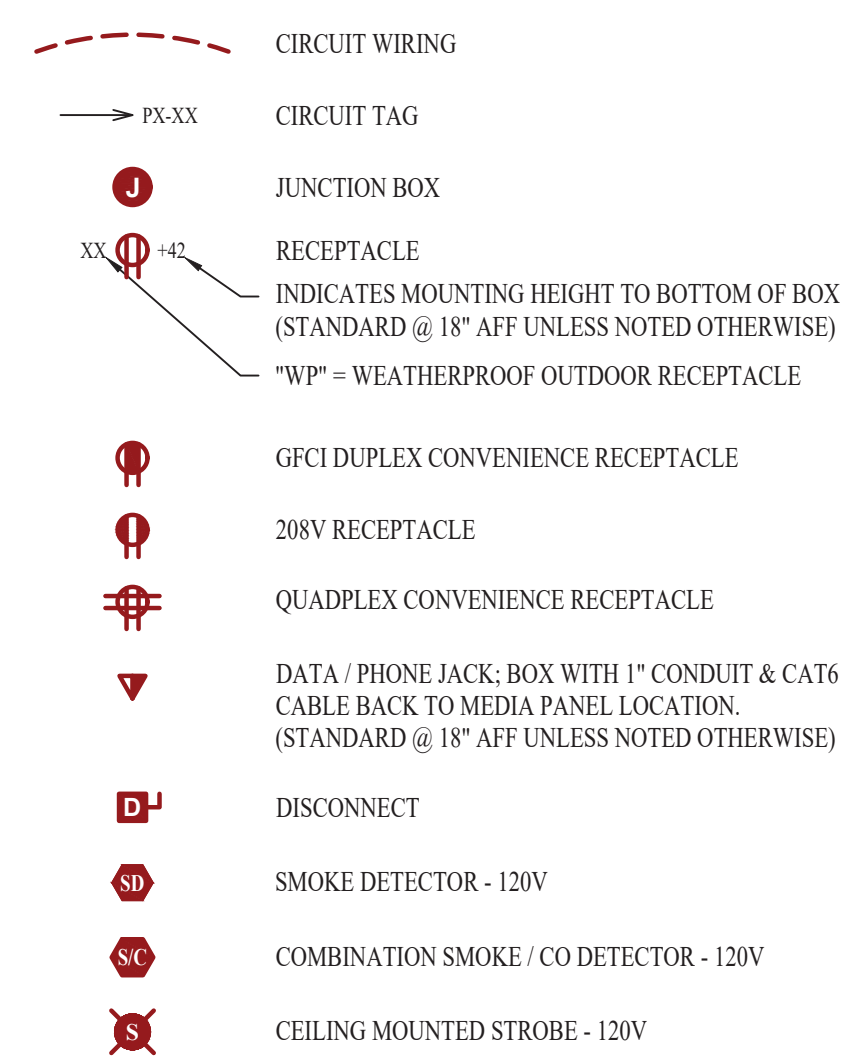
HVAC PLAN KEY NOTES:

- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN
SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

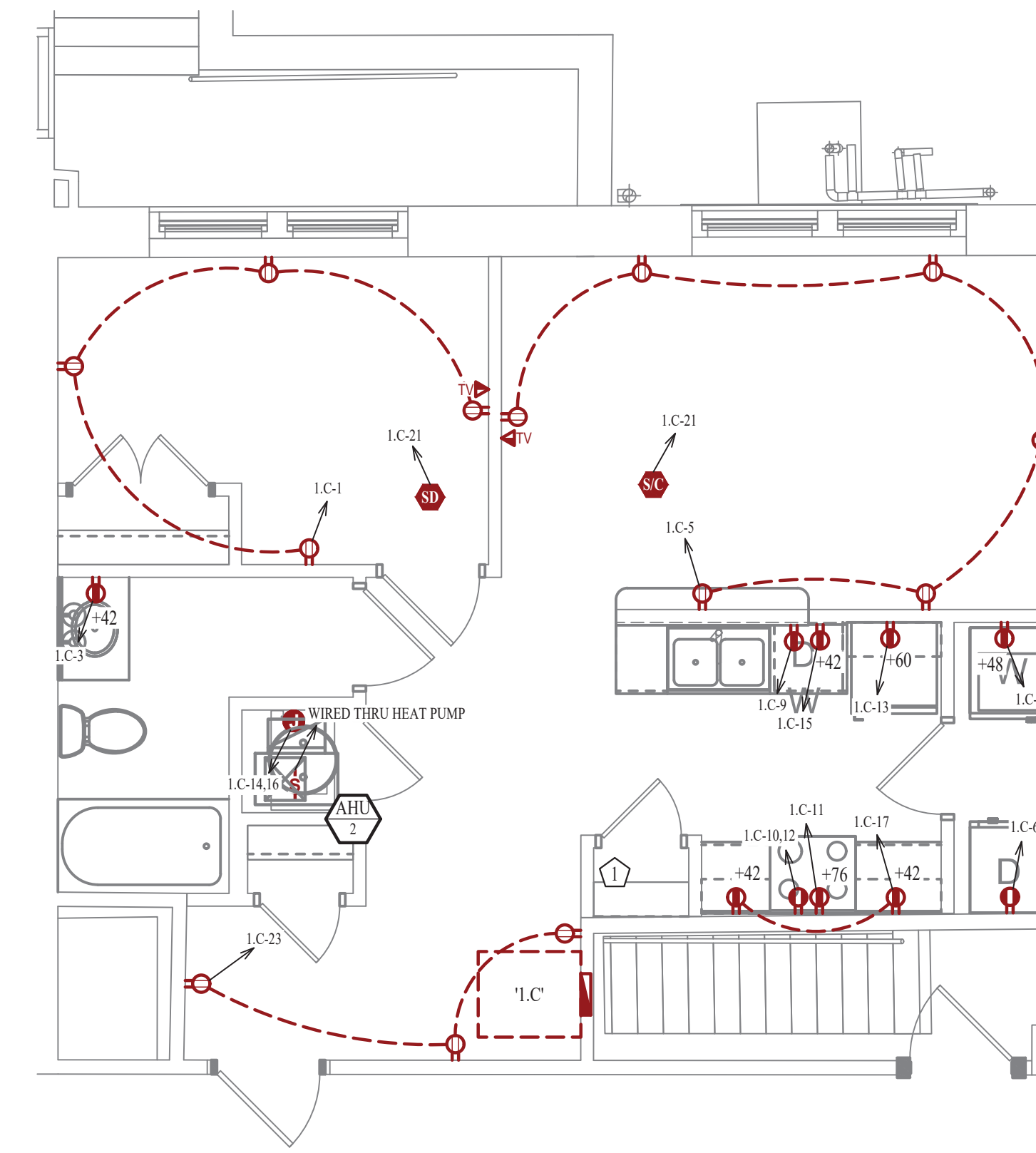


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

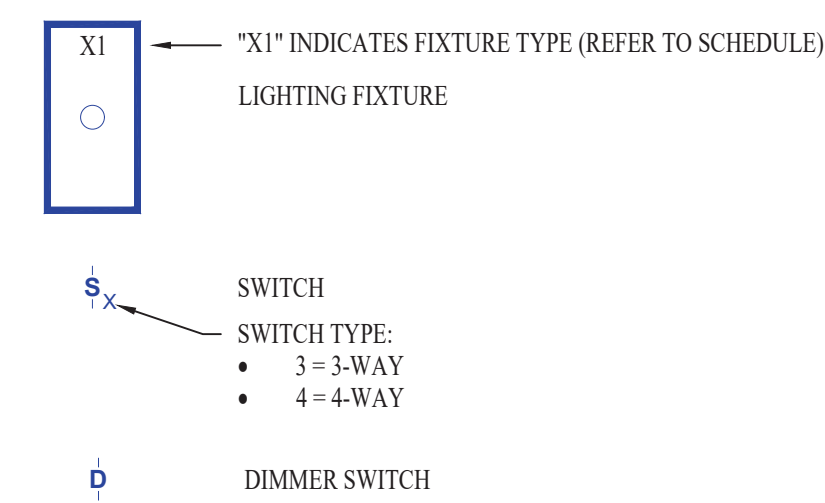
POWER PLAN KEY NOTES:

- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



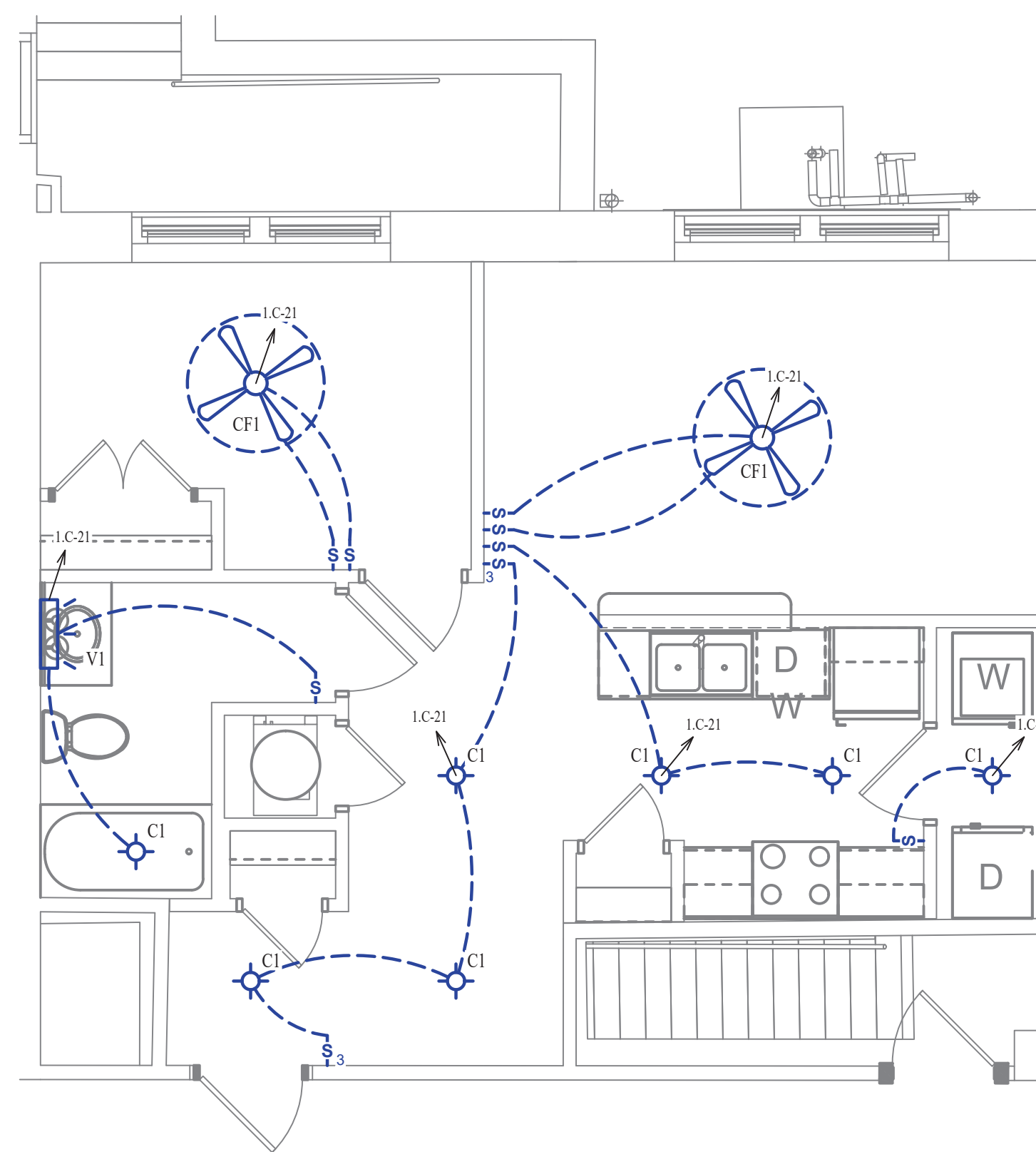
POWER PLAN
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



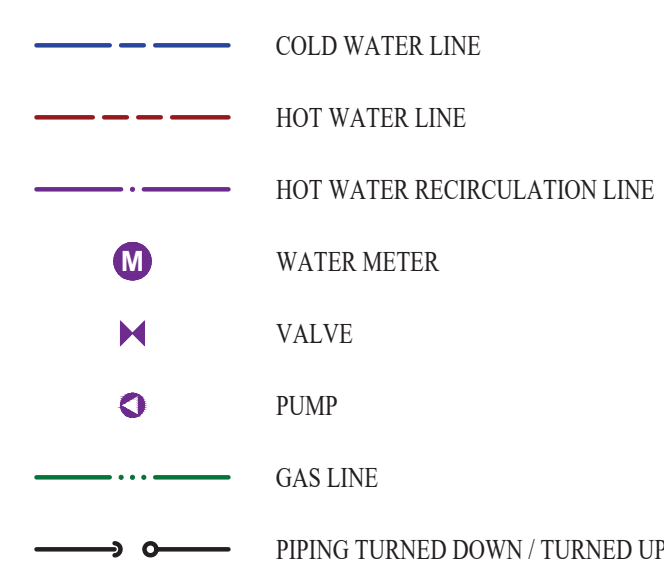
LIGHTING PLAN GENERAL NOTES:

- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN
SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

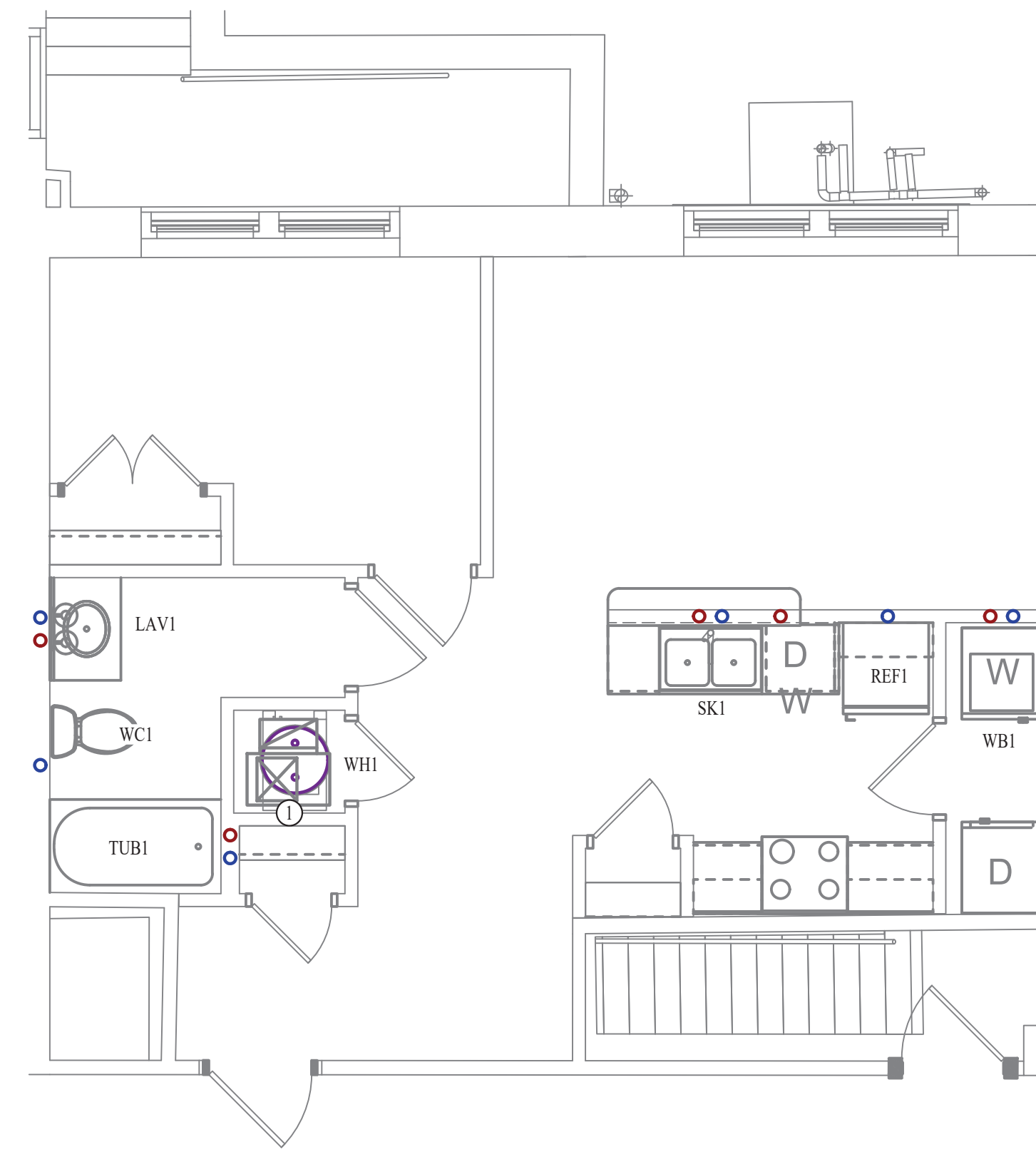


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WATER PLAN KEY NOTES:

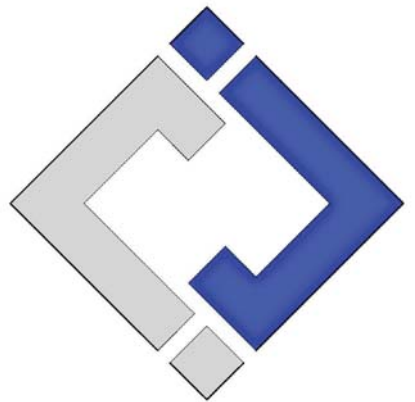
- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



WATER PLAN
SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
PE-32421
OK Certificate of Authority # 8654



J-SQUARED ENGINEERING
2401 Bernadette Drive, Suite 201
Columbia, Missouri 65203
573 - 234 - 4492 phone
www.j-squaredeng.com

J2 PROJECT No: J20395
J2 DESIGN: KEL

ISSUE TITLE DATE
PERMIT SET 10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
1537 NE 24th Street
Oklahoma City, OK, 73111

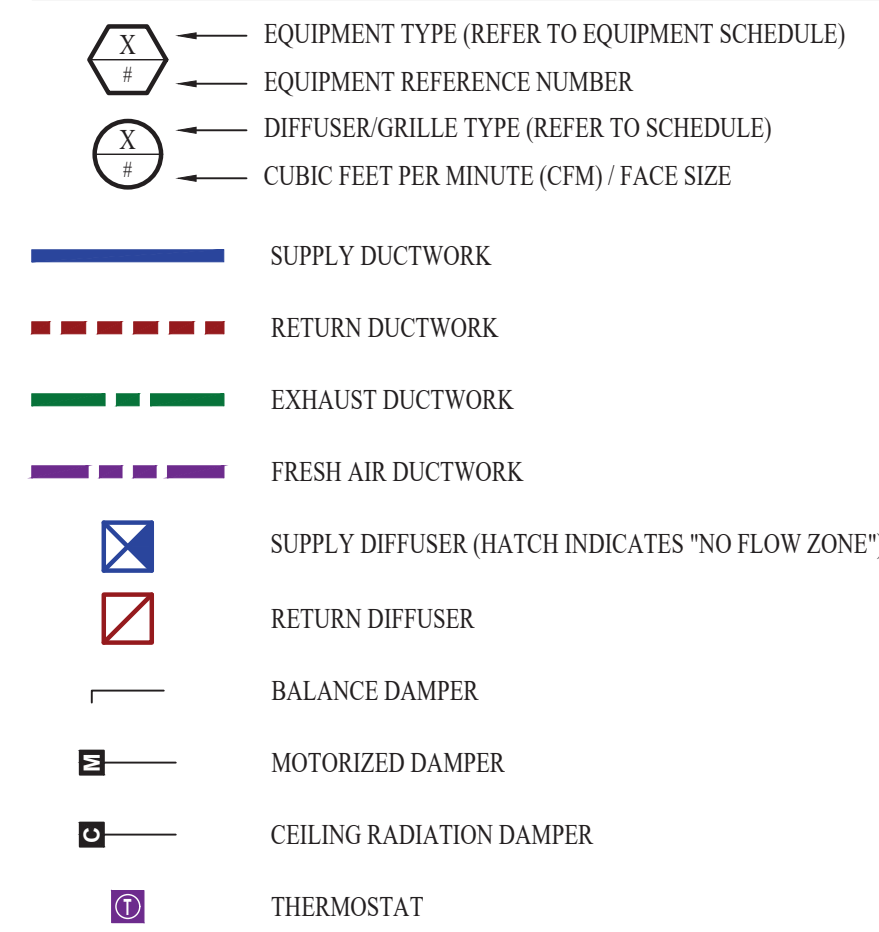
SHEET TITLE

1-BEDROOM-C UNIT PLAN

SHEET NUMBER

UP-1.C

HVAC PLAN SYMBOL LEGEND

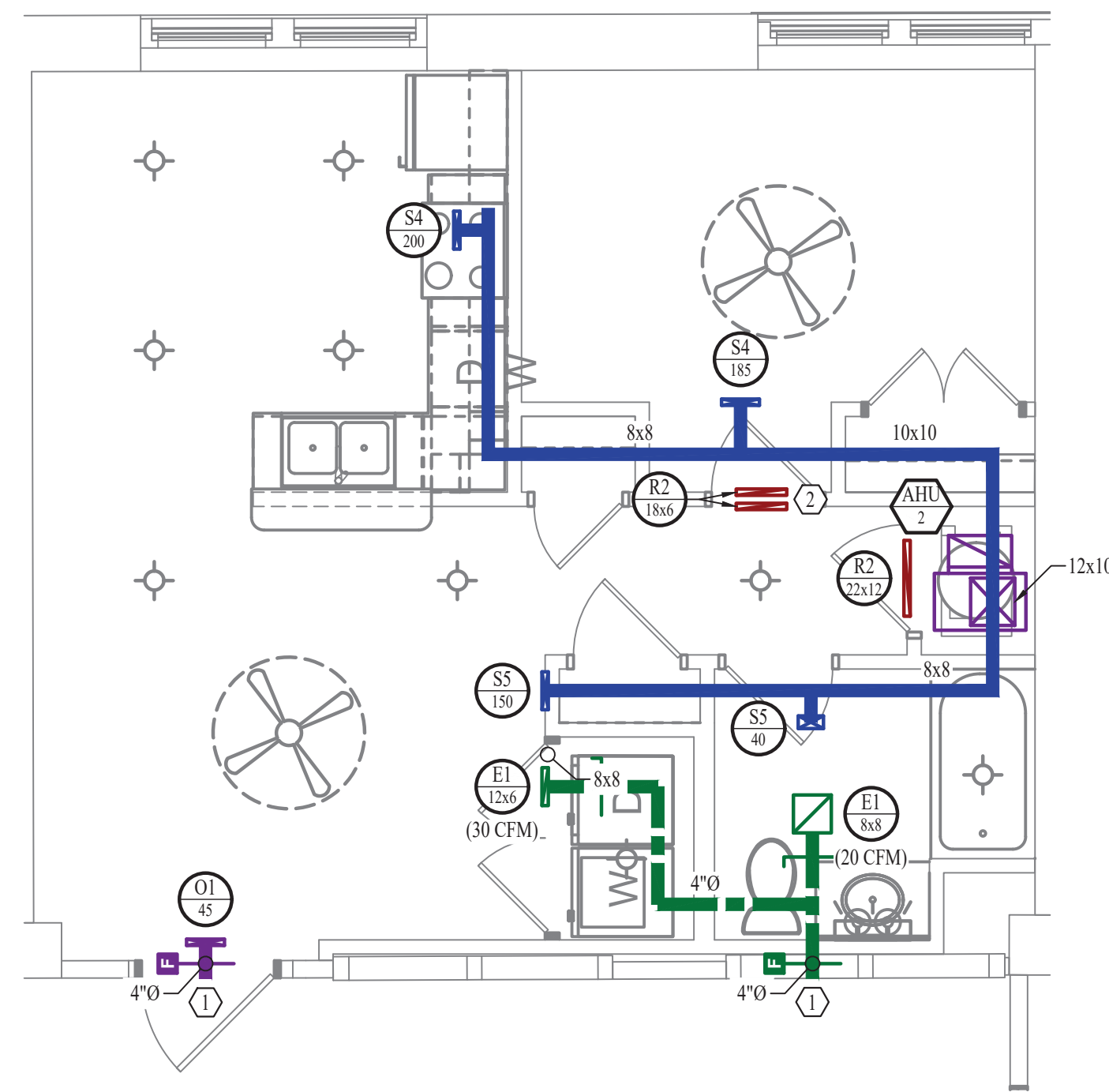


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

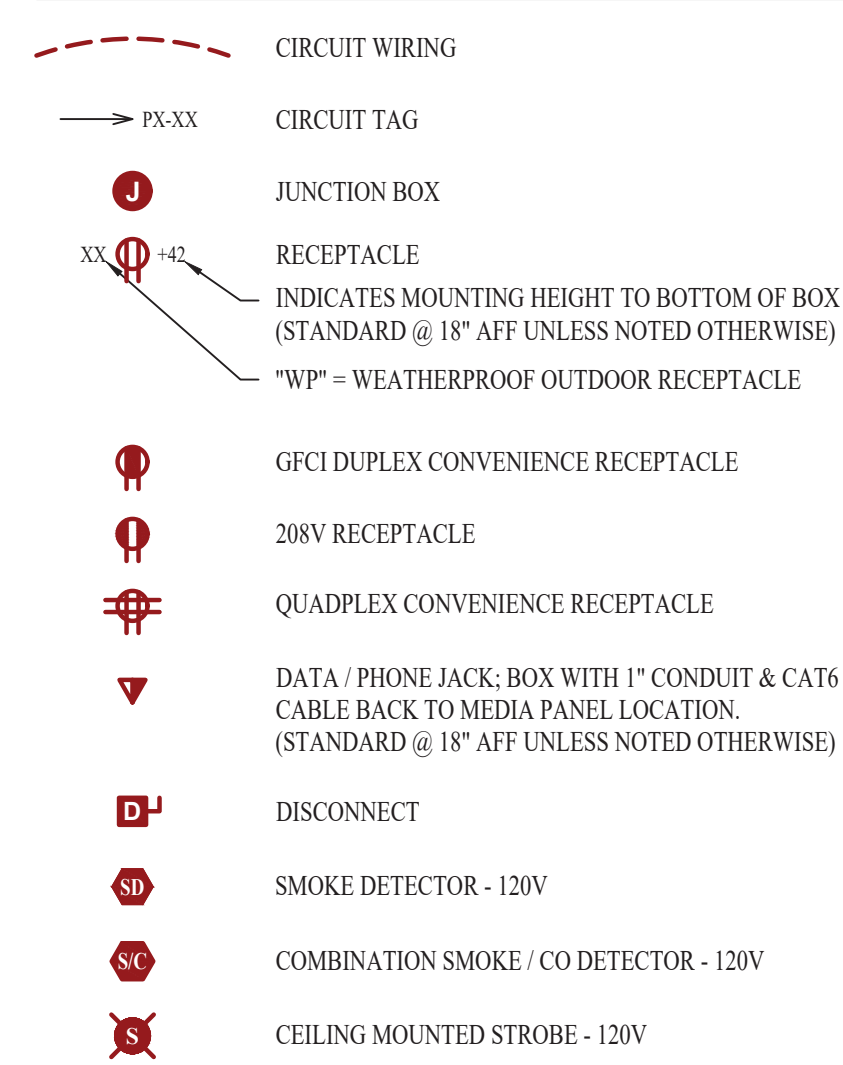
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

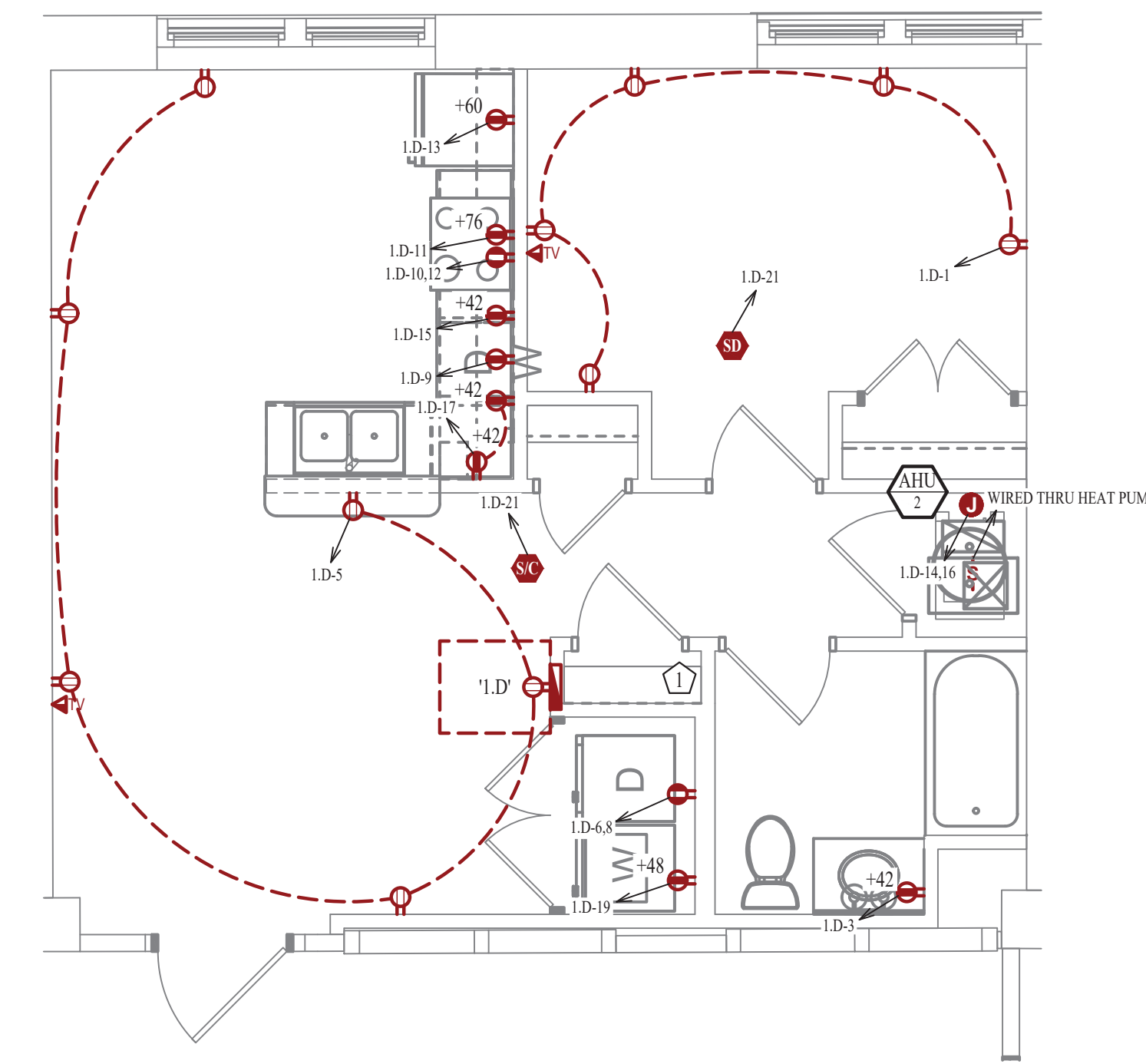


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

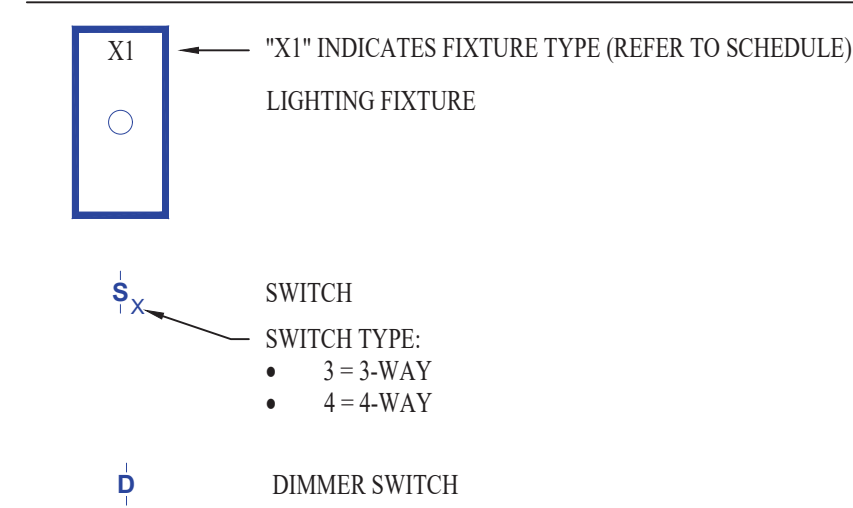
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

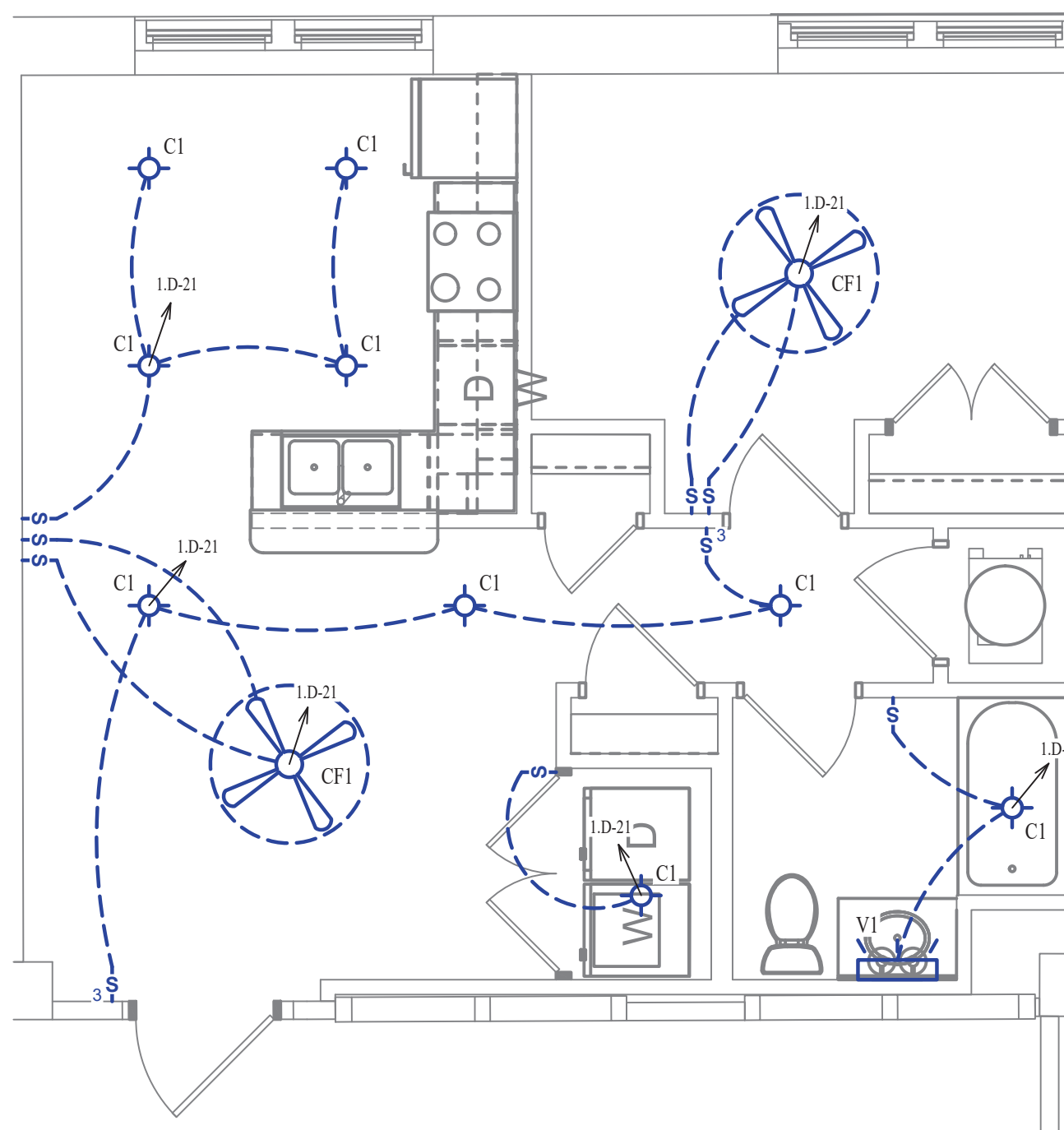
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

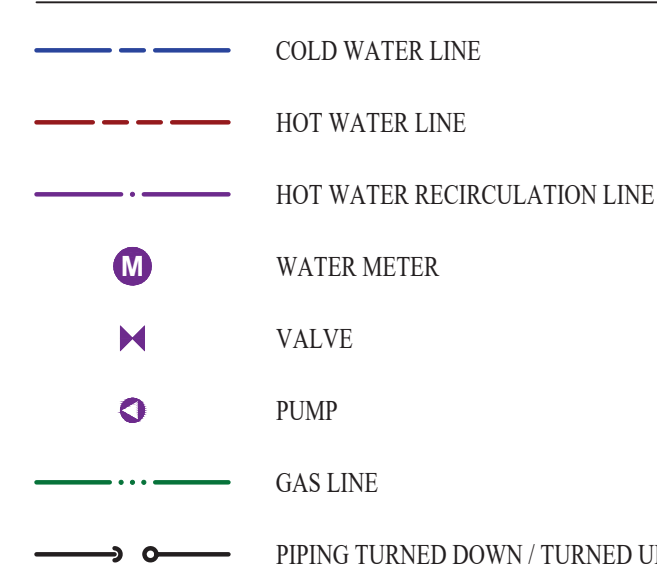
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

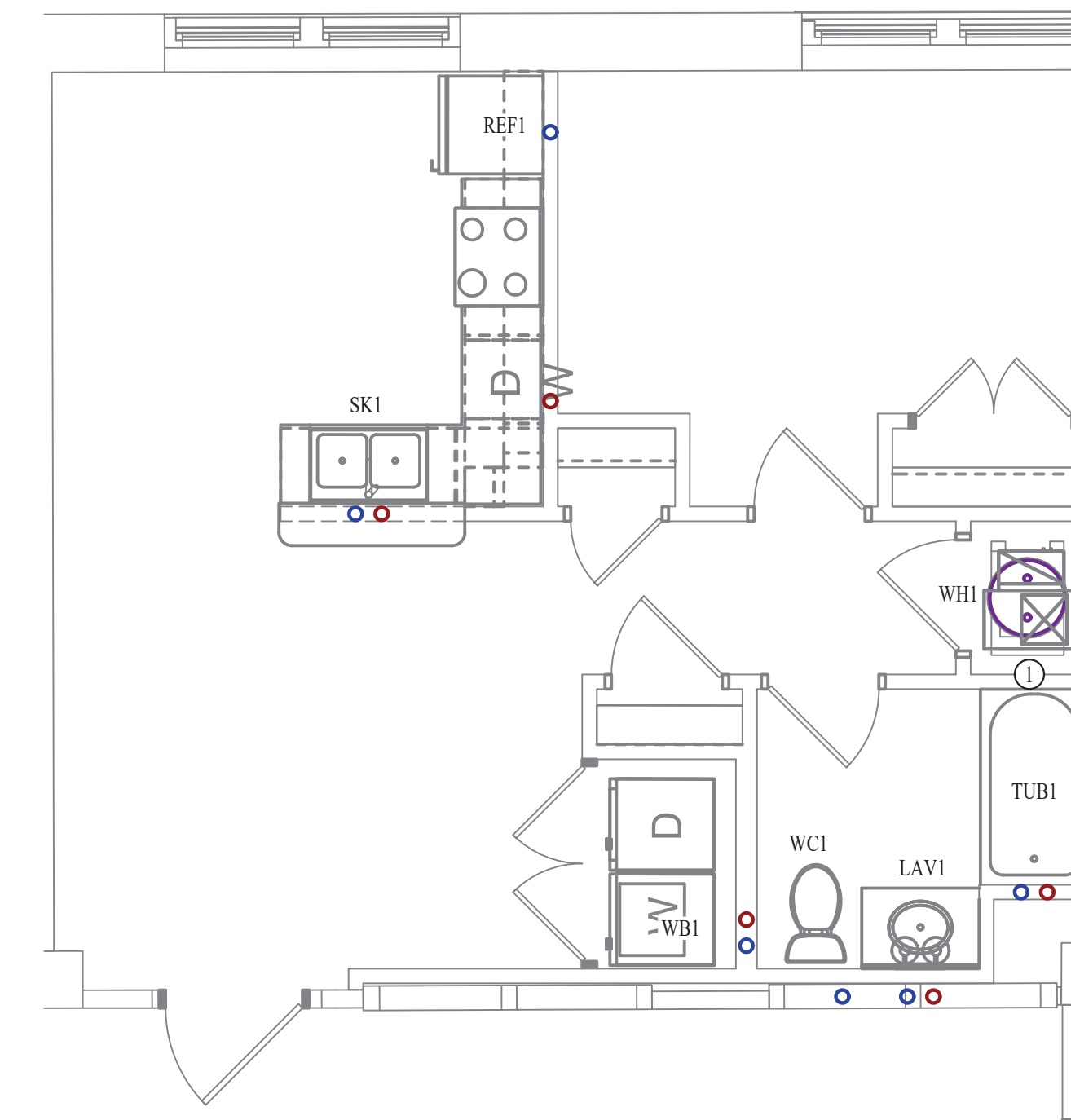


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

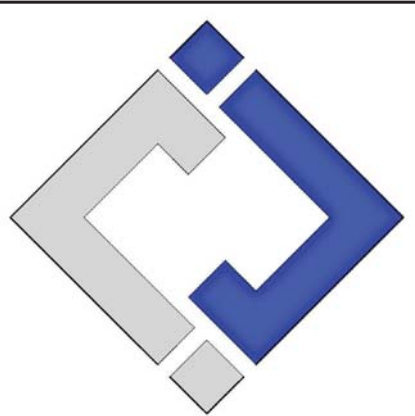


WATER PLAN

SCALE: 1/4" = 1'-0"



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J2 PROJECT No: J20395
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ISSUE TITLE DATE
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Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
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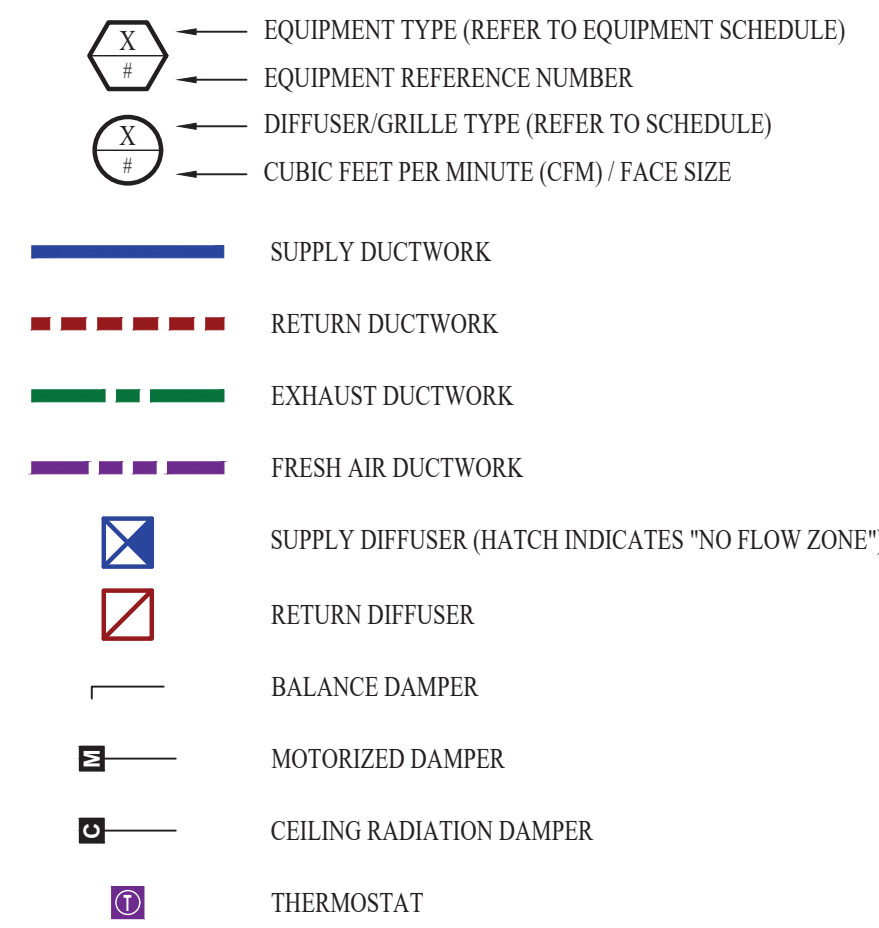
SHEET TITLE

1-BEDROOM-D UNIT PLAN

SHEET NUMBER

UP-1.D

HVAC PLAN SYMBOL LEGEND

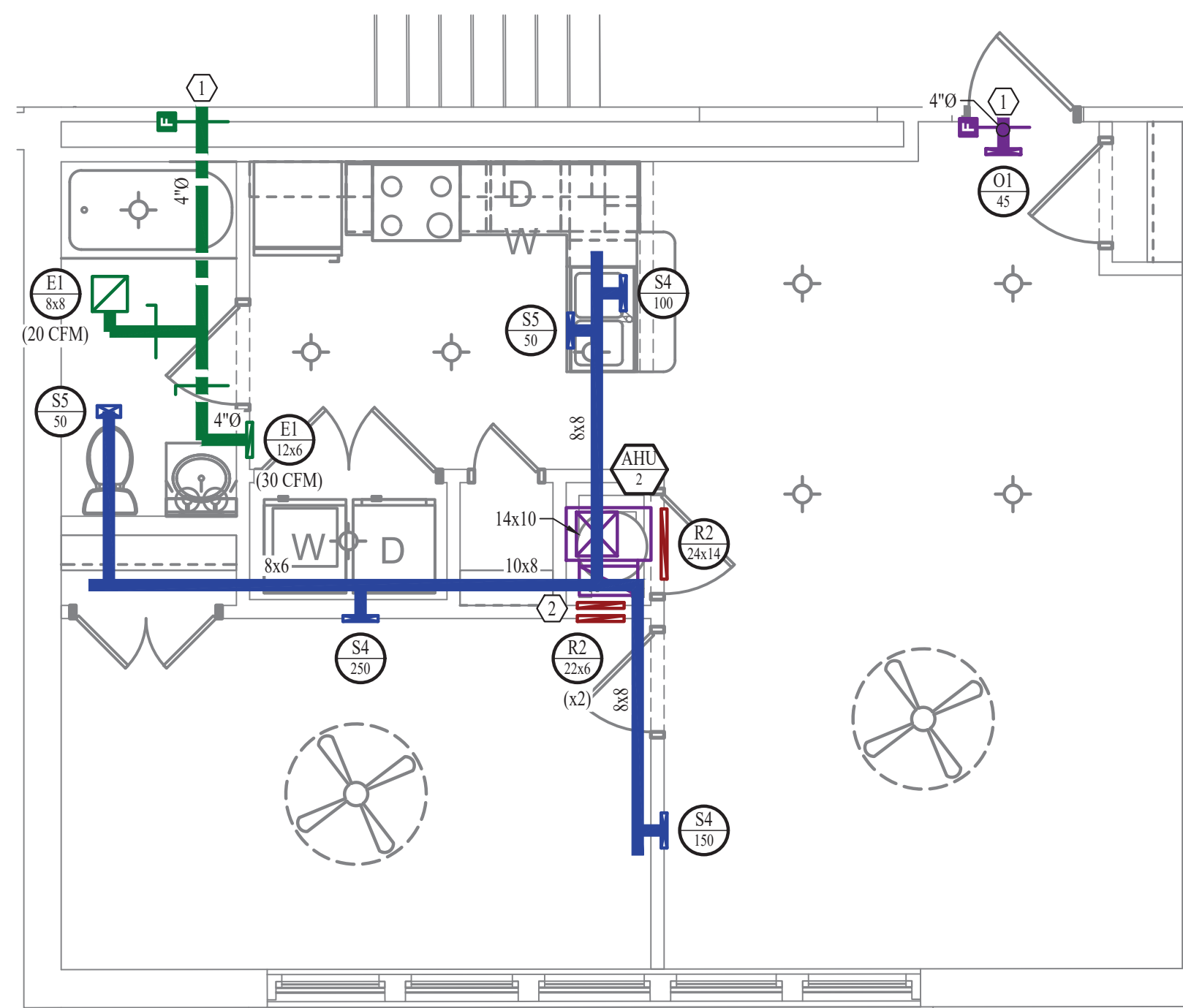


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

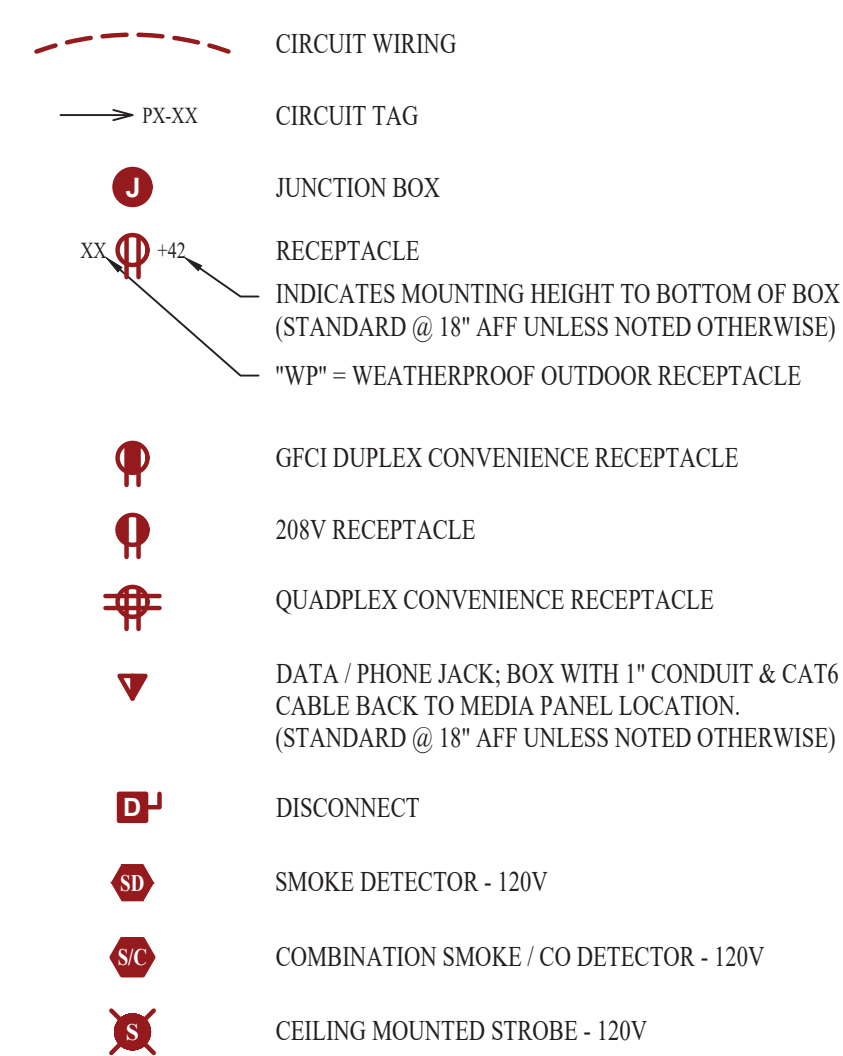
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- HI-LOW TRANSFER GRILLES



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

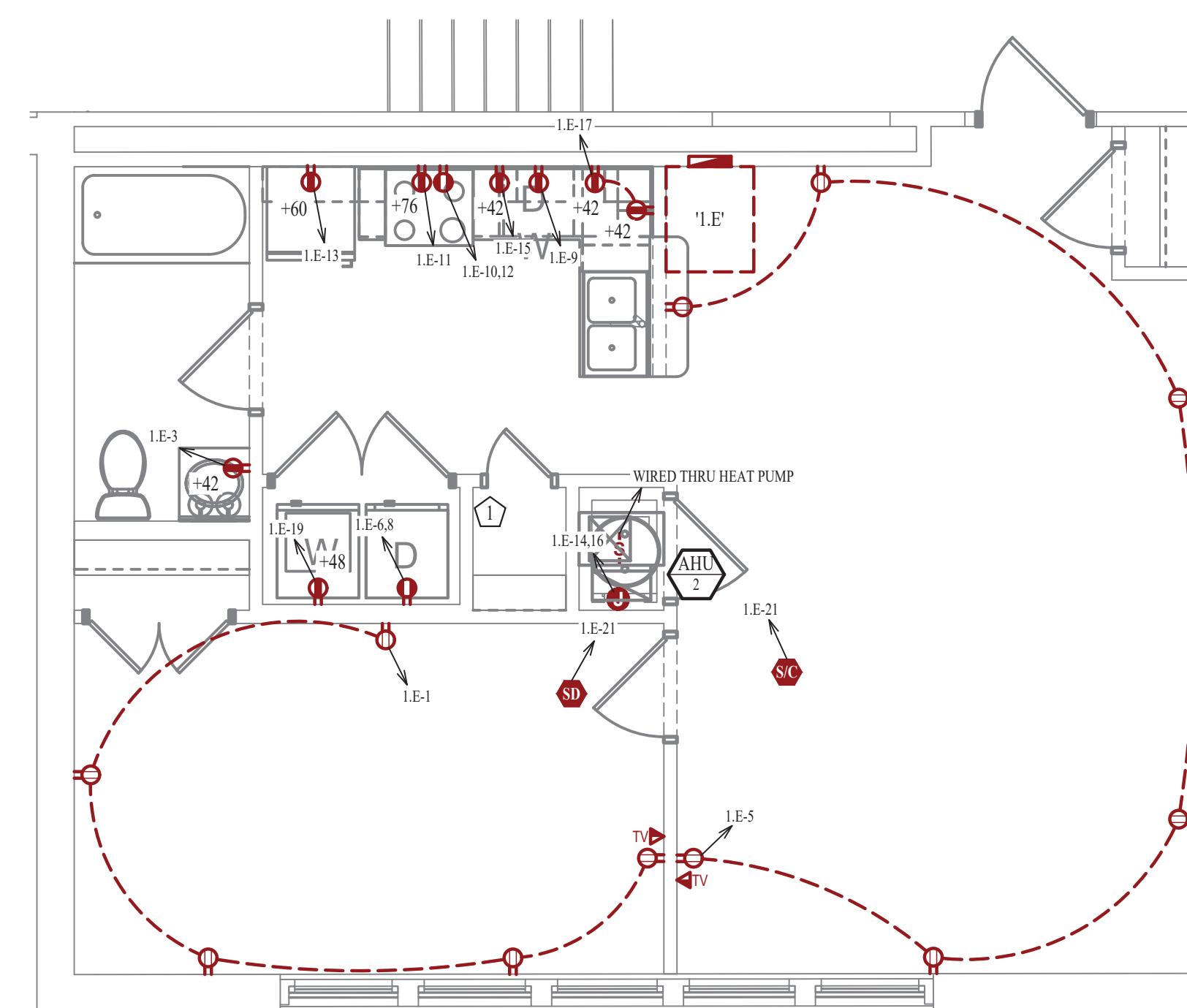


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

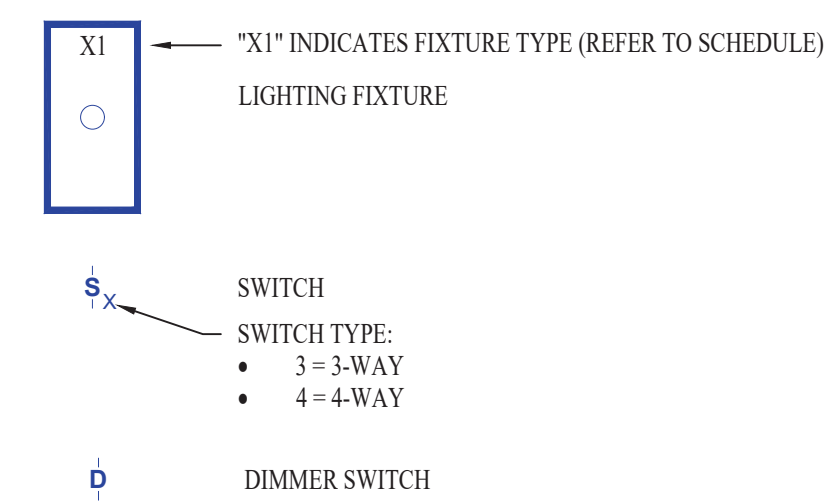
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

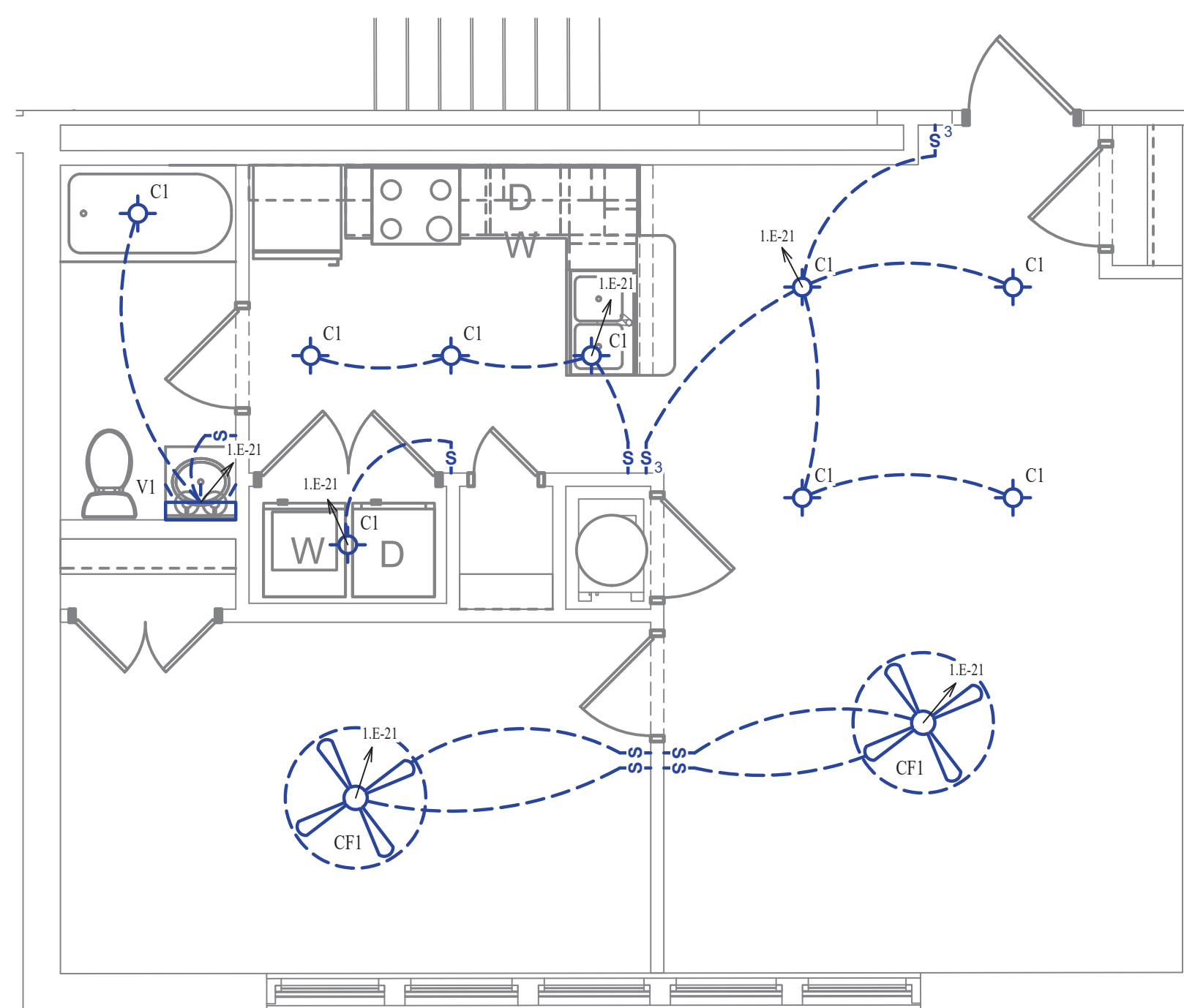
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

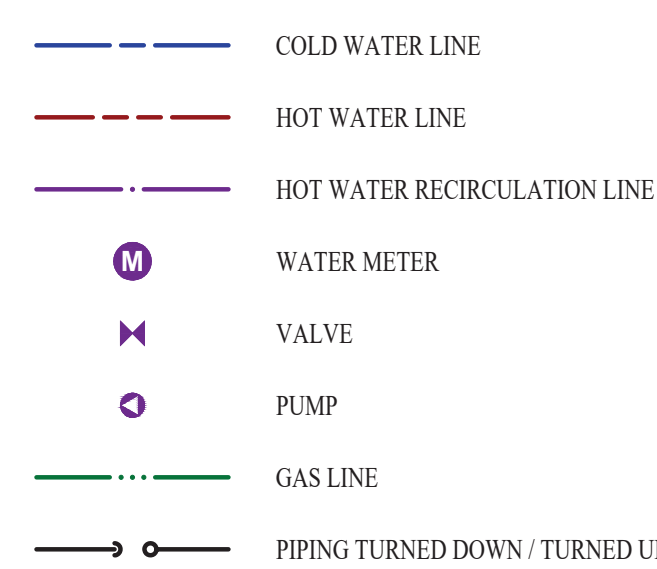
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

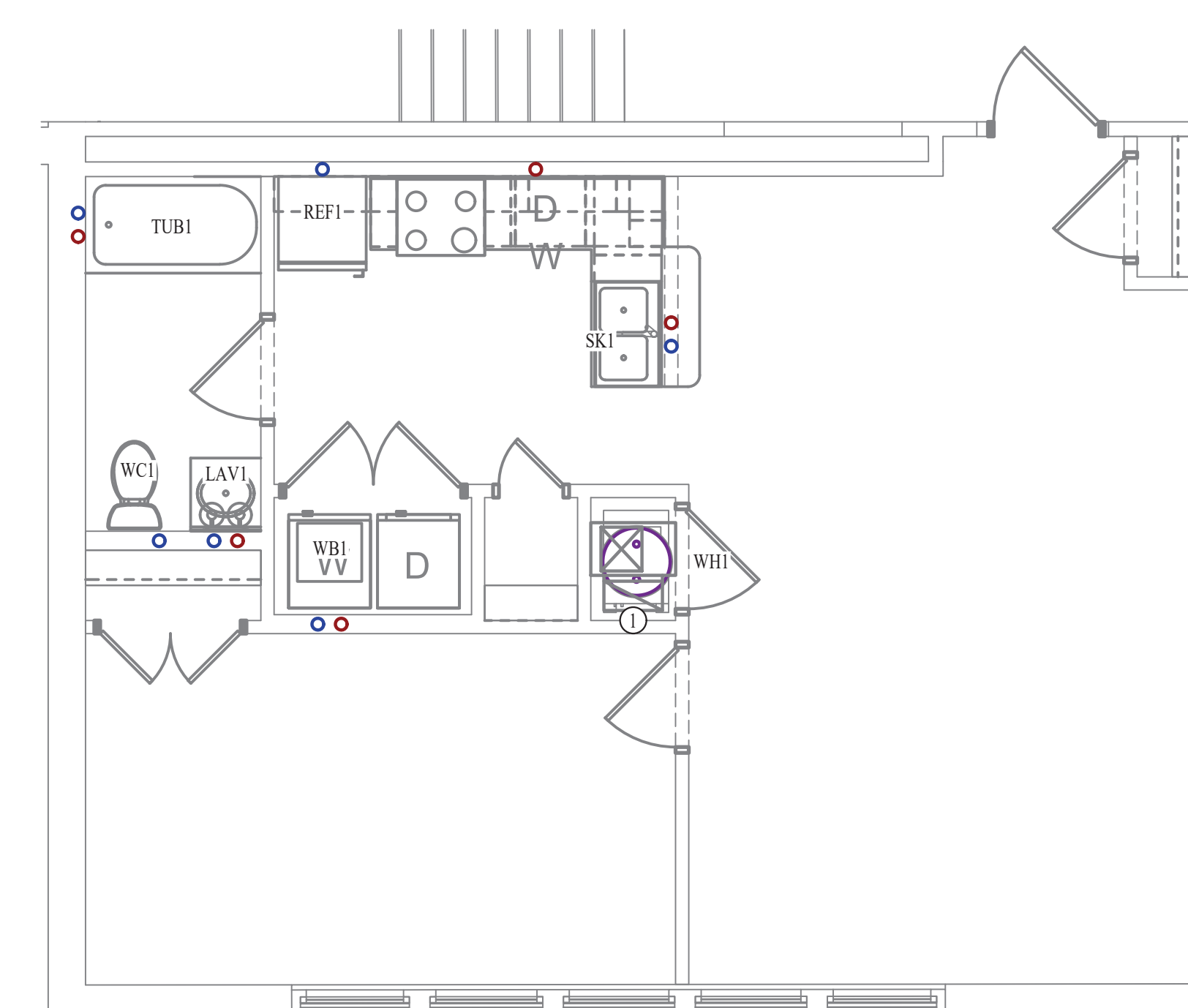


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

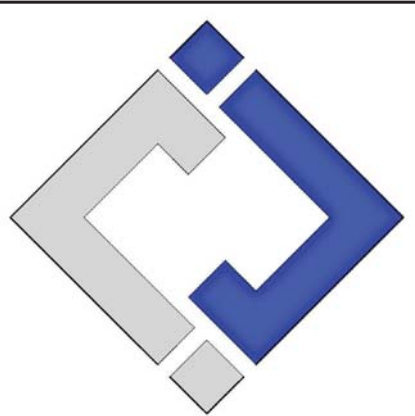


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
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Mechanical - Electrical - Plumbing Design Drawings for
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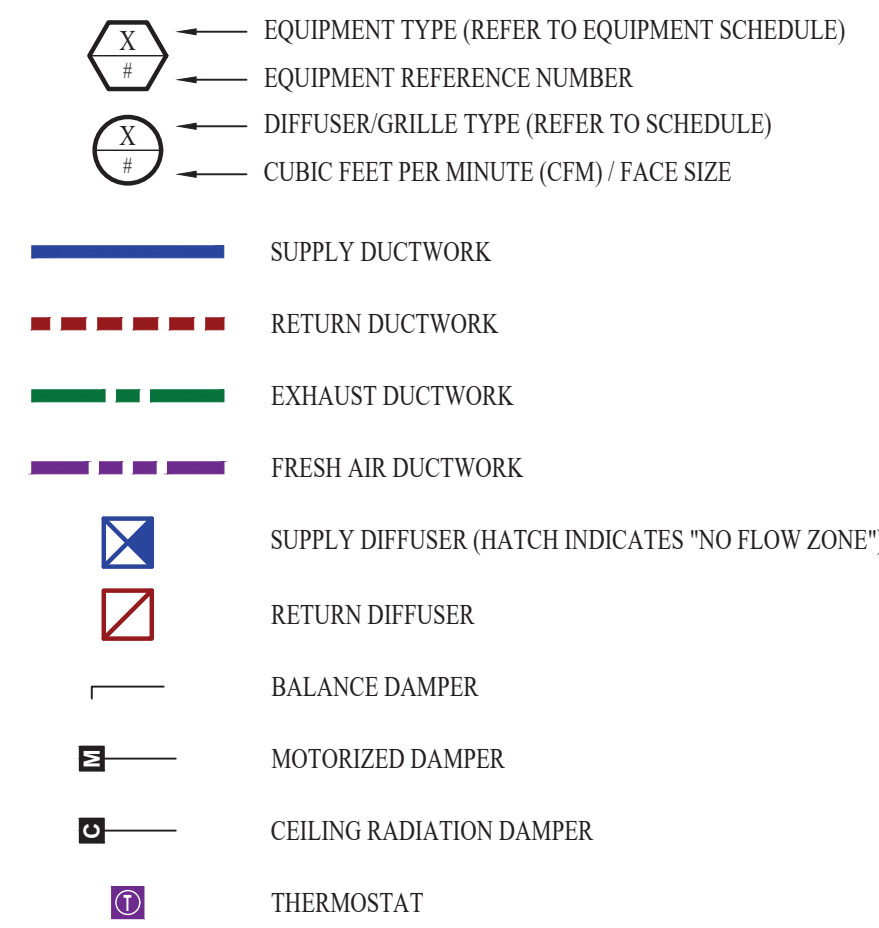
SHEET TITLE

1-BEDROOM-E UNIT PLAN

SHEET NUMBER

UP-1.E

HVAC PLAN SYMBOL LEGEND

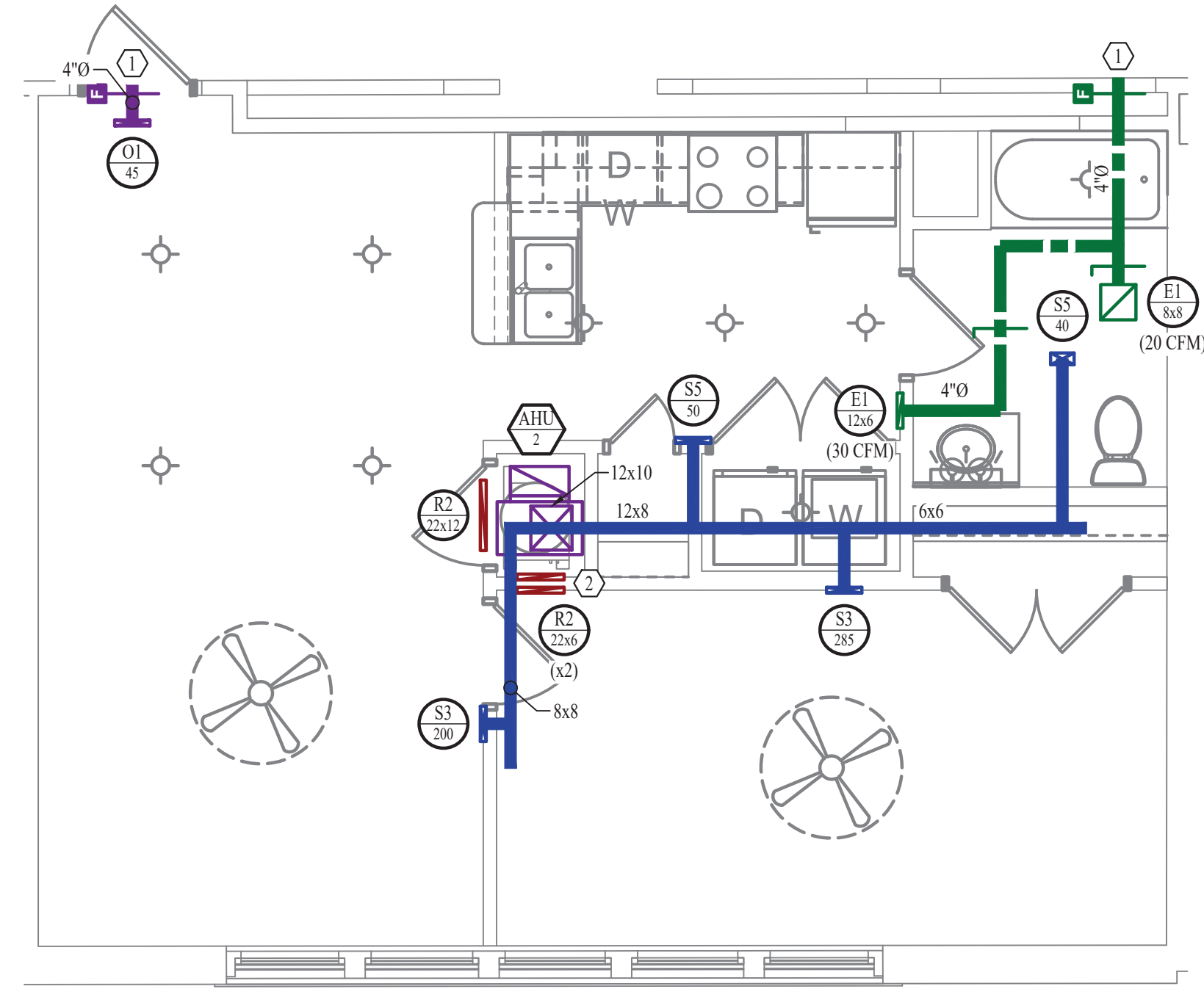


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

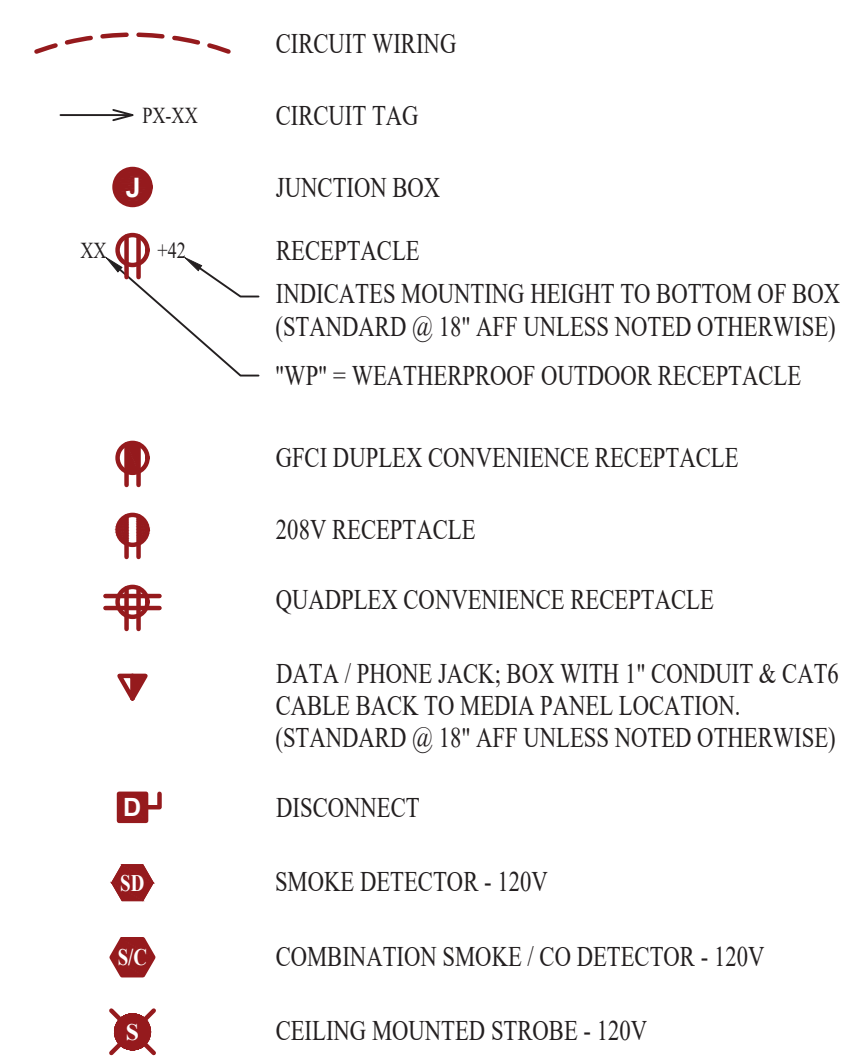
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- HI-LOW TRANSFER GRILLES



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

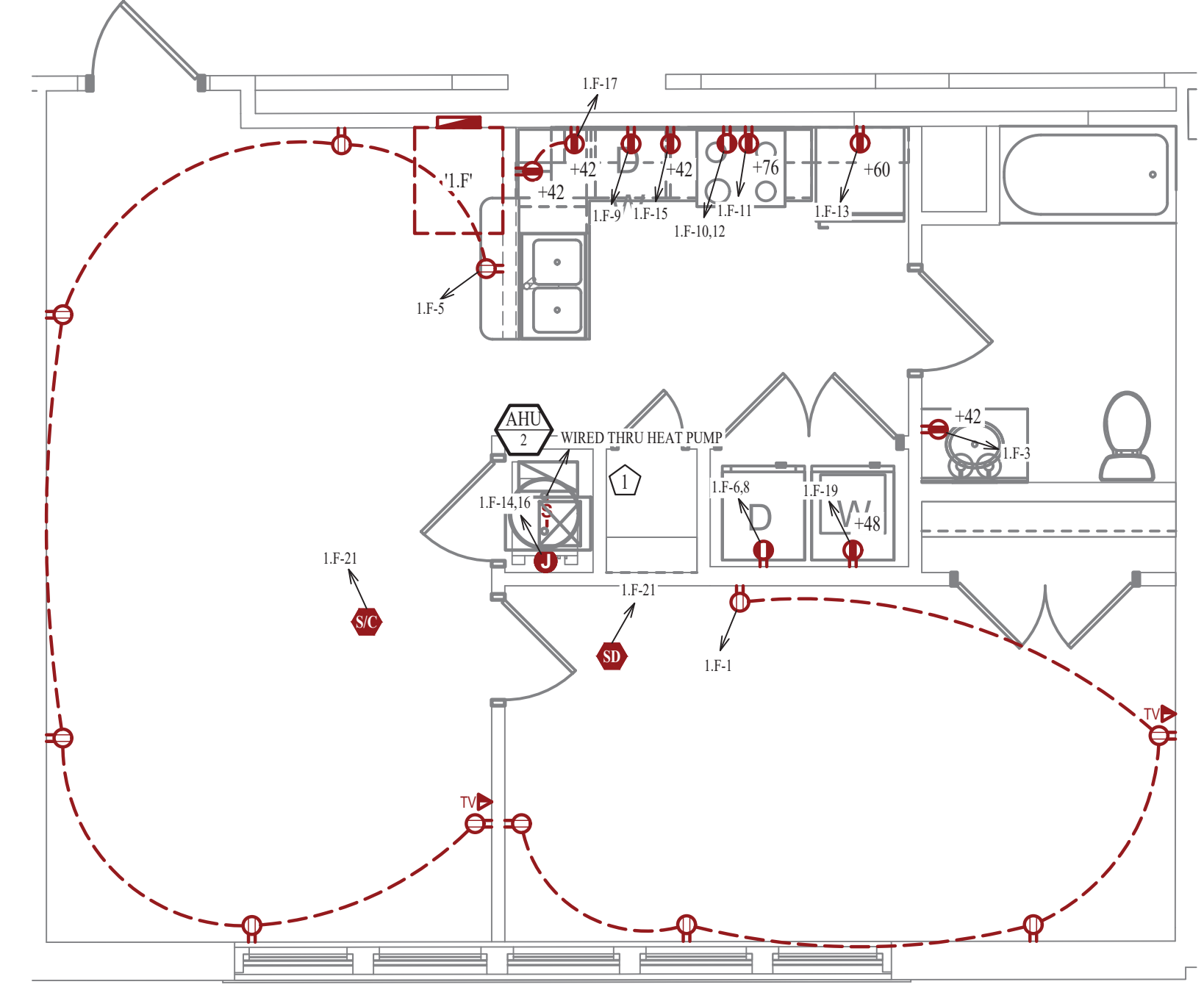


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

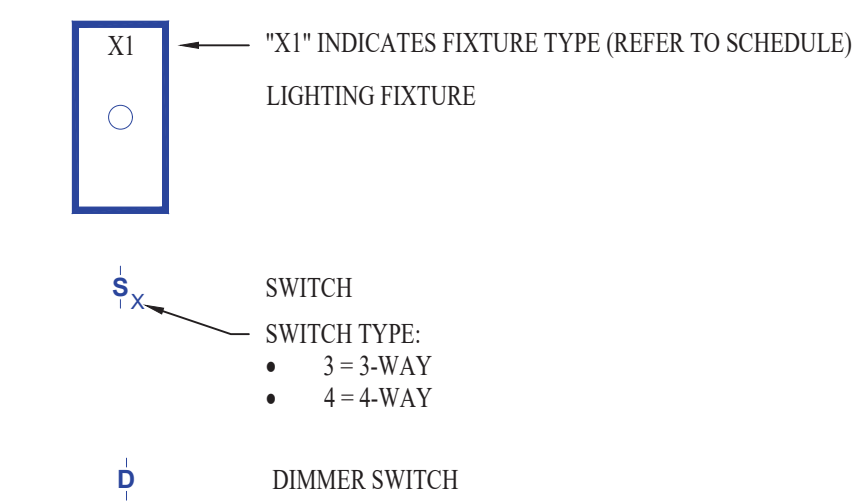
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP208AV1.



POWER PLAN

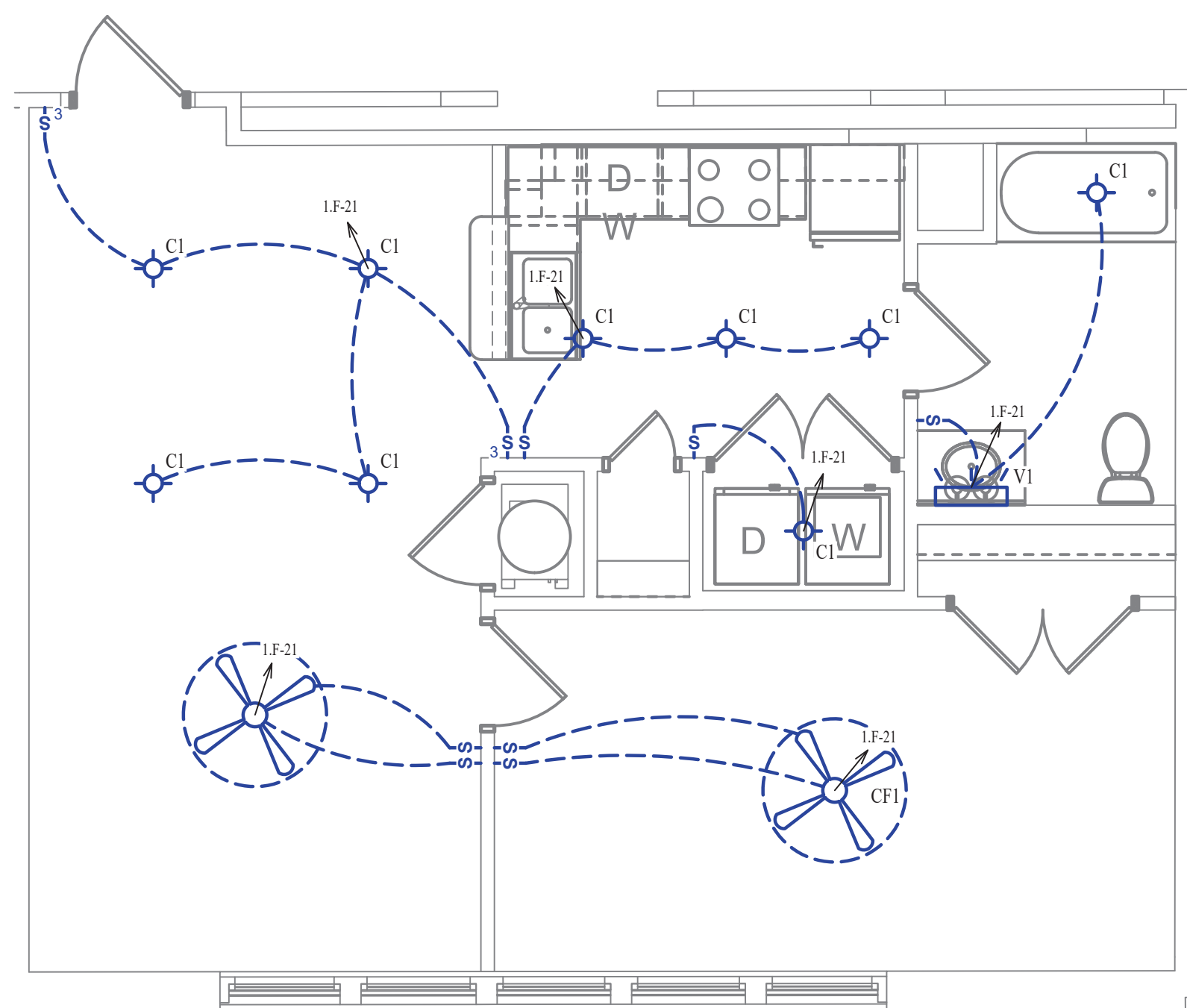
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

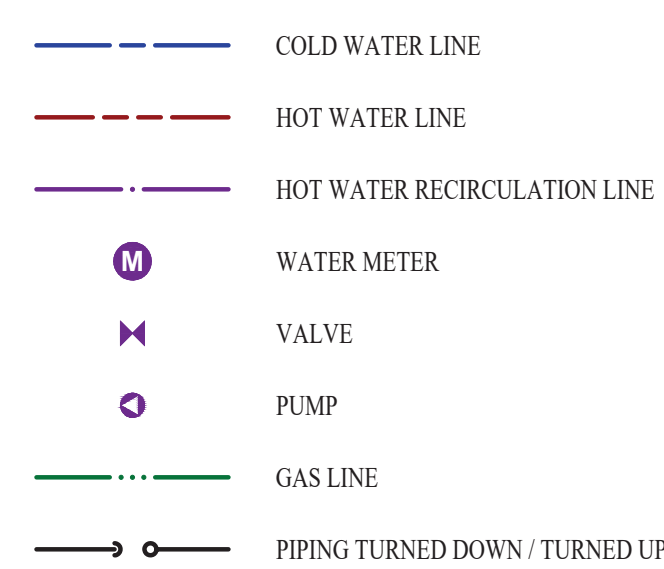
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

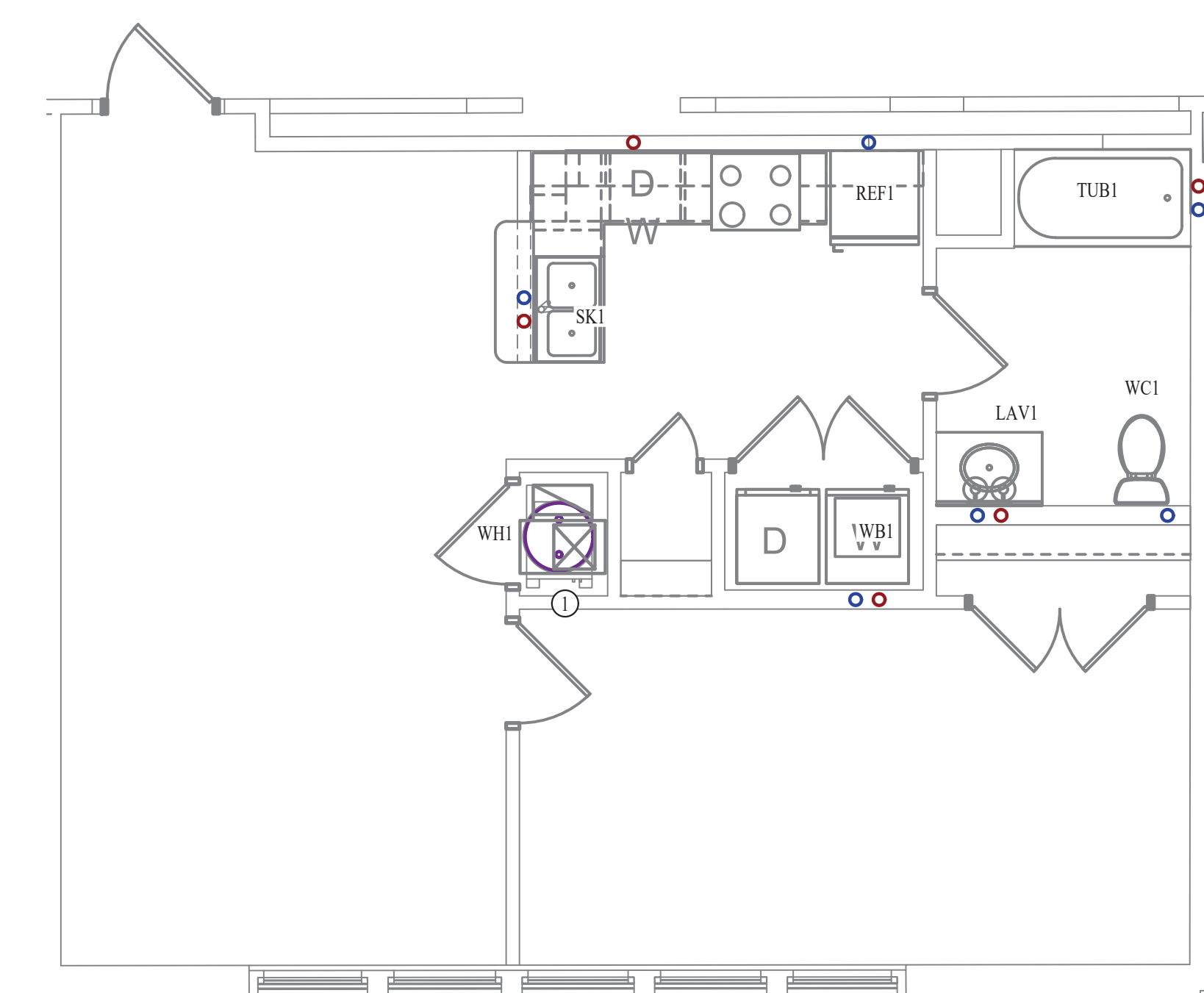


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

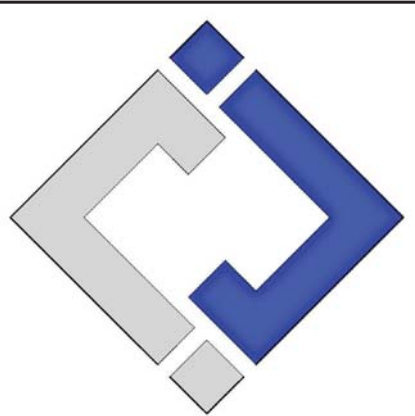


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
PE-32421
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J-SQUARED ENGINEERING

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J2 PROJECT No:	J20395
J2 DESIGN:	KEL

ISSUE TITLE	DATE
PERMIT SET	10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
1537 NE 24th Street
Oklahoma City, OK, 73111

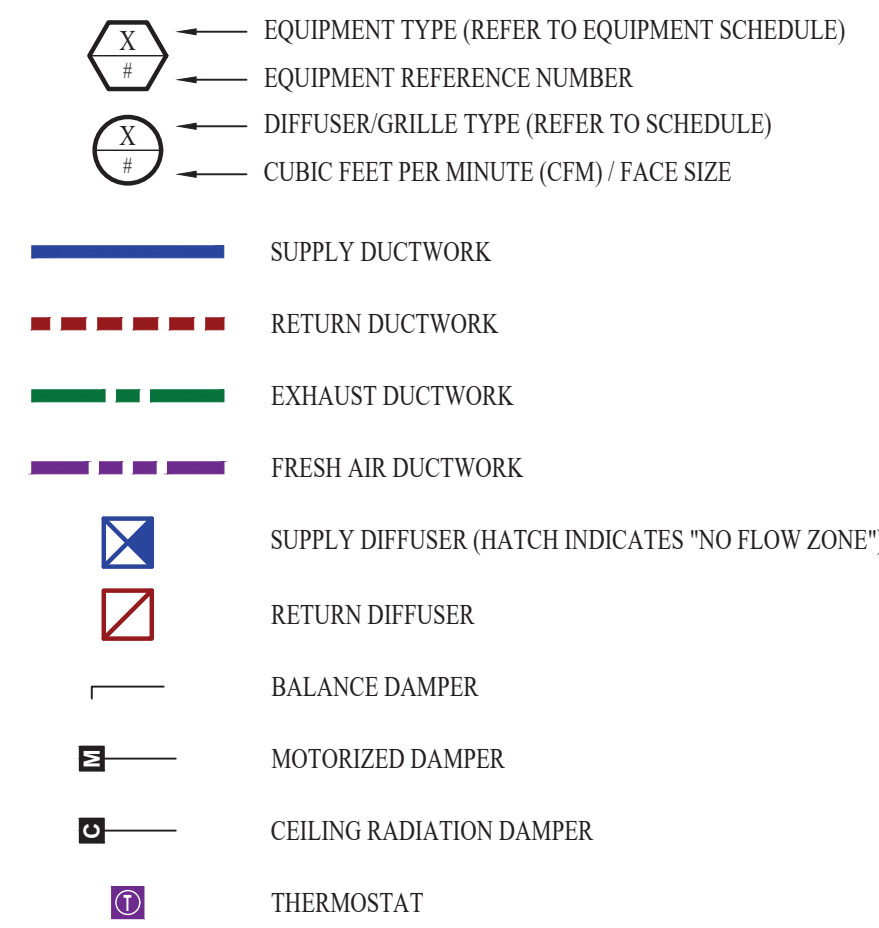
SHEET TITLE

1-BEDROOM-F UNIT PLAN

SHEET NUMBER

UP-1.F

HVAC PLAN SYMBOL LEGEND

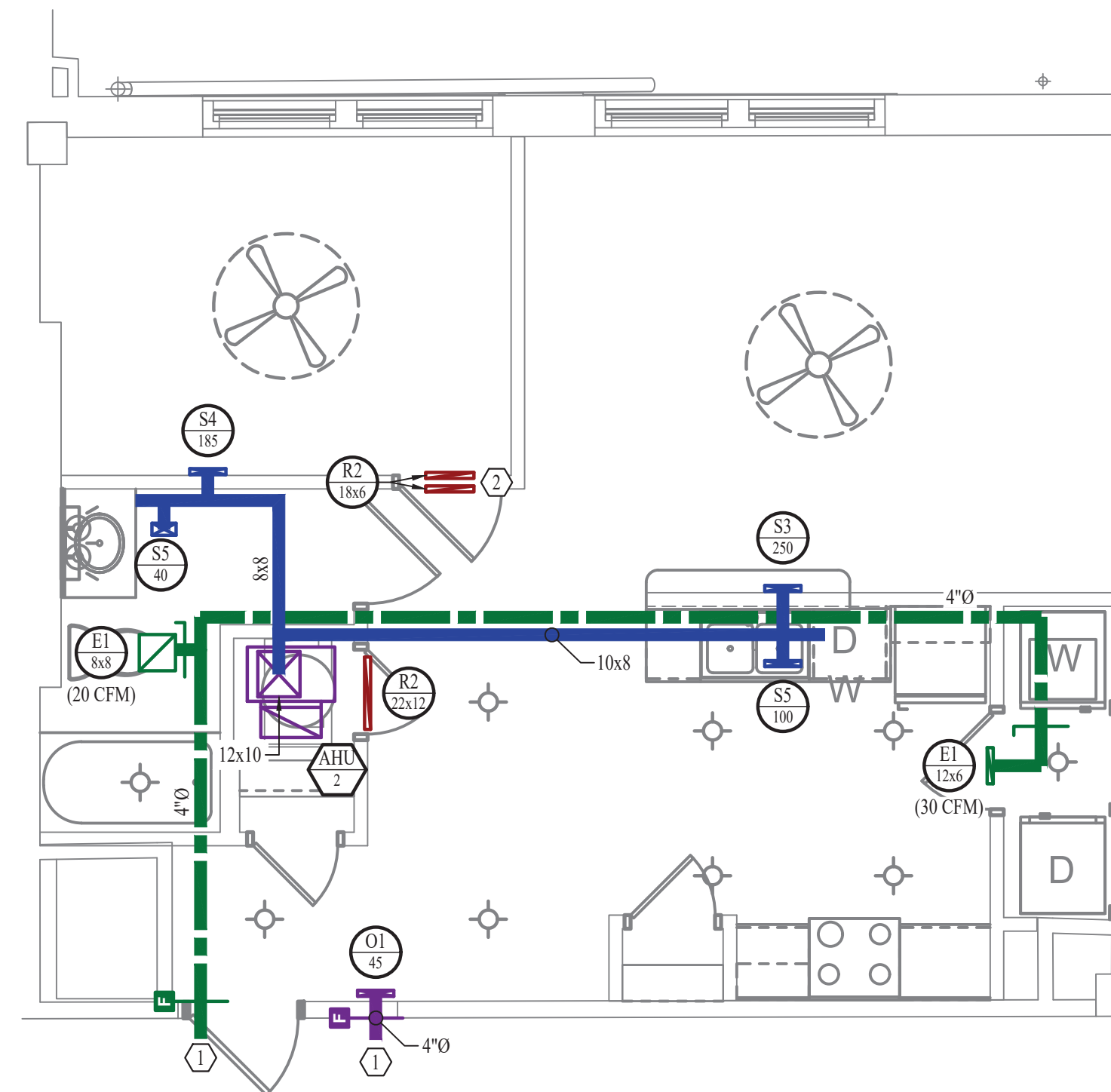


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

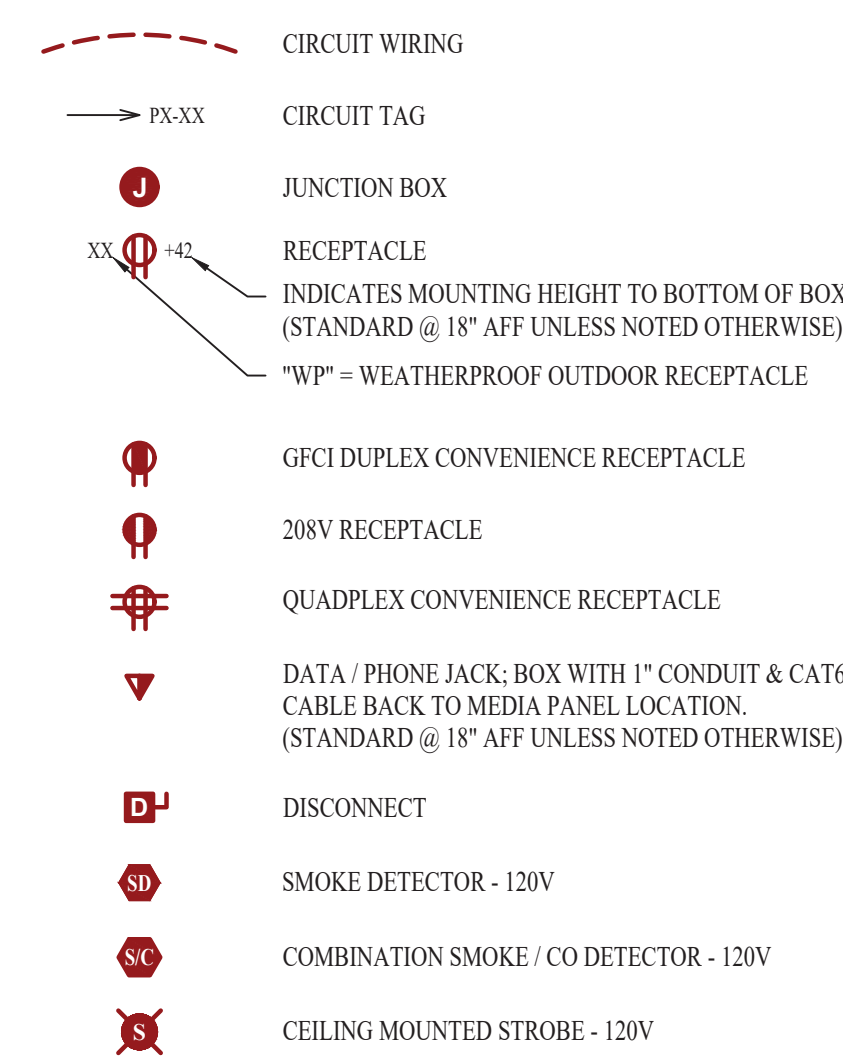
HVAC PLAN KEY NOTES:

- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN
SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

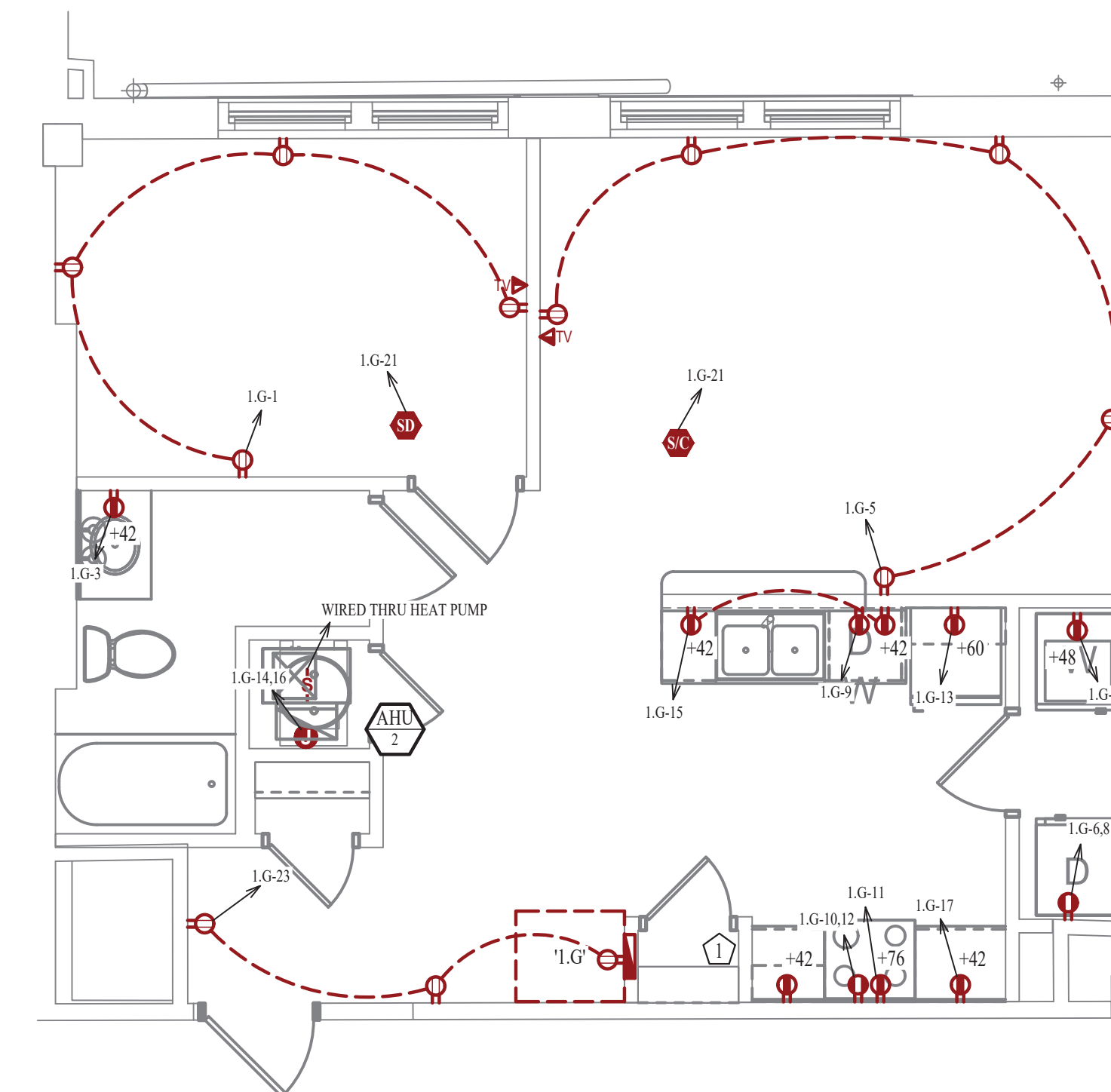


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

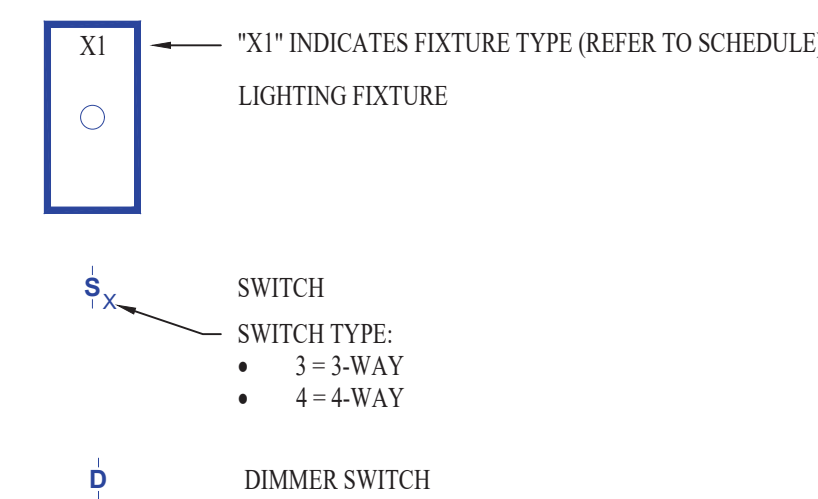
POWER PLAN KEY NOTES:

- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



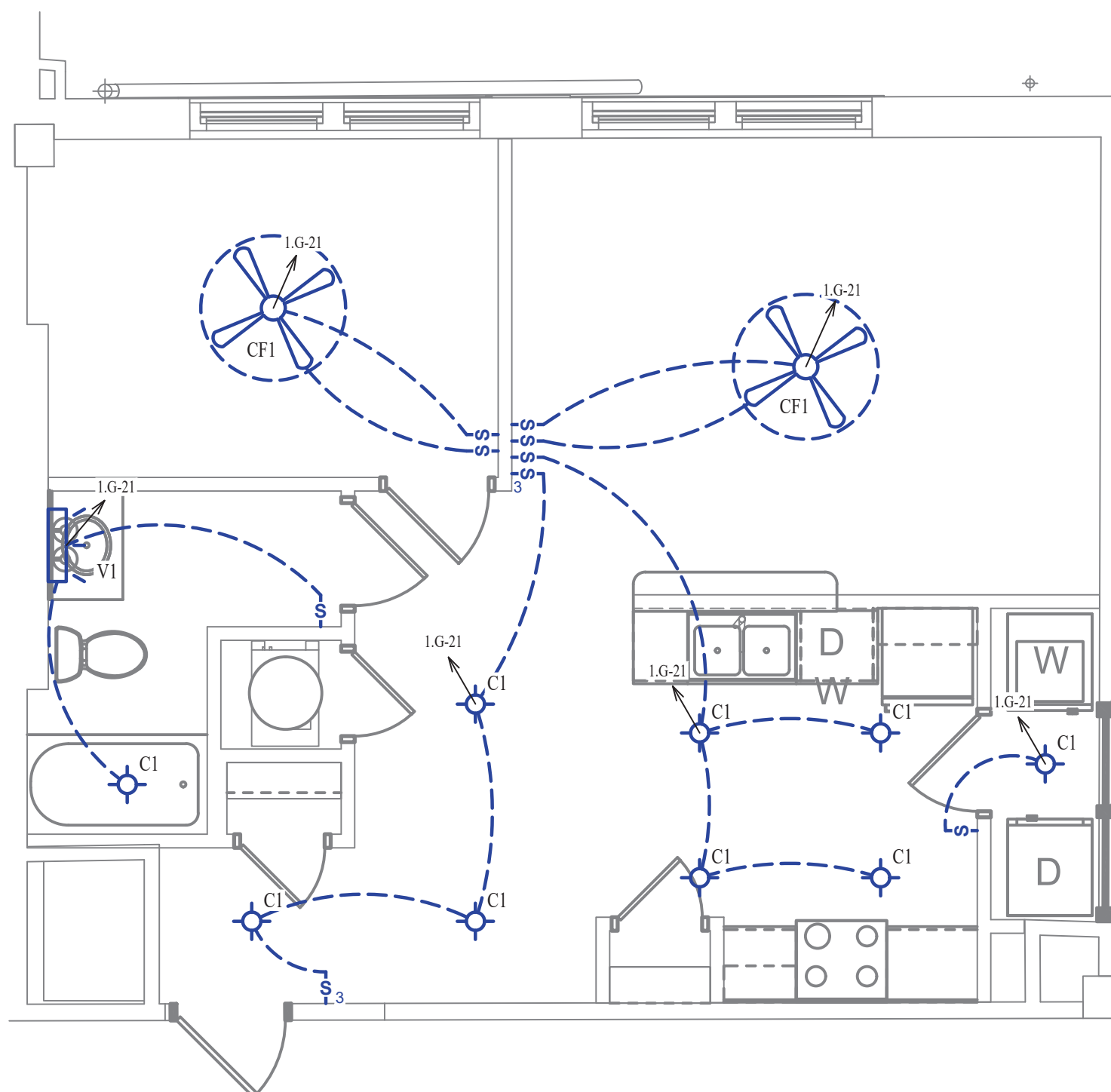
POWER PLAN
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



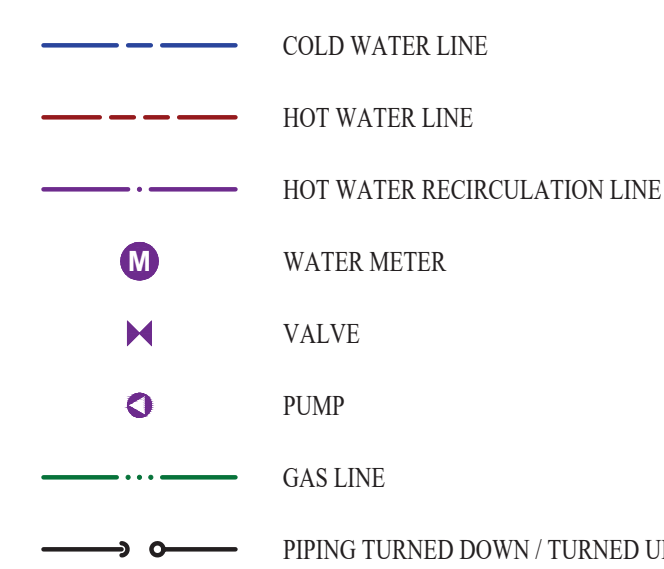
LIGHTING PLAN GENERAL NOTES:

- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN
SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

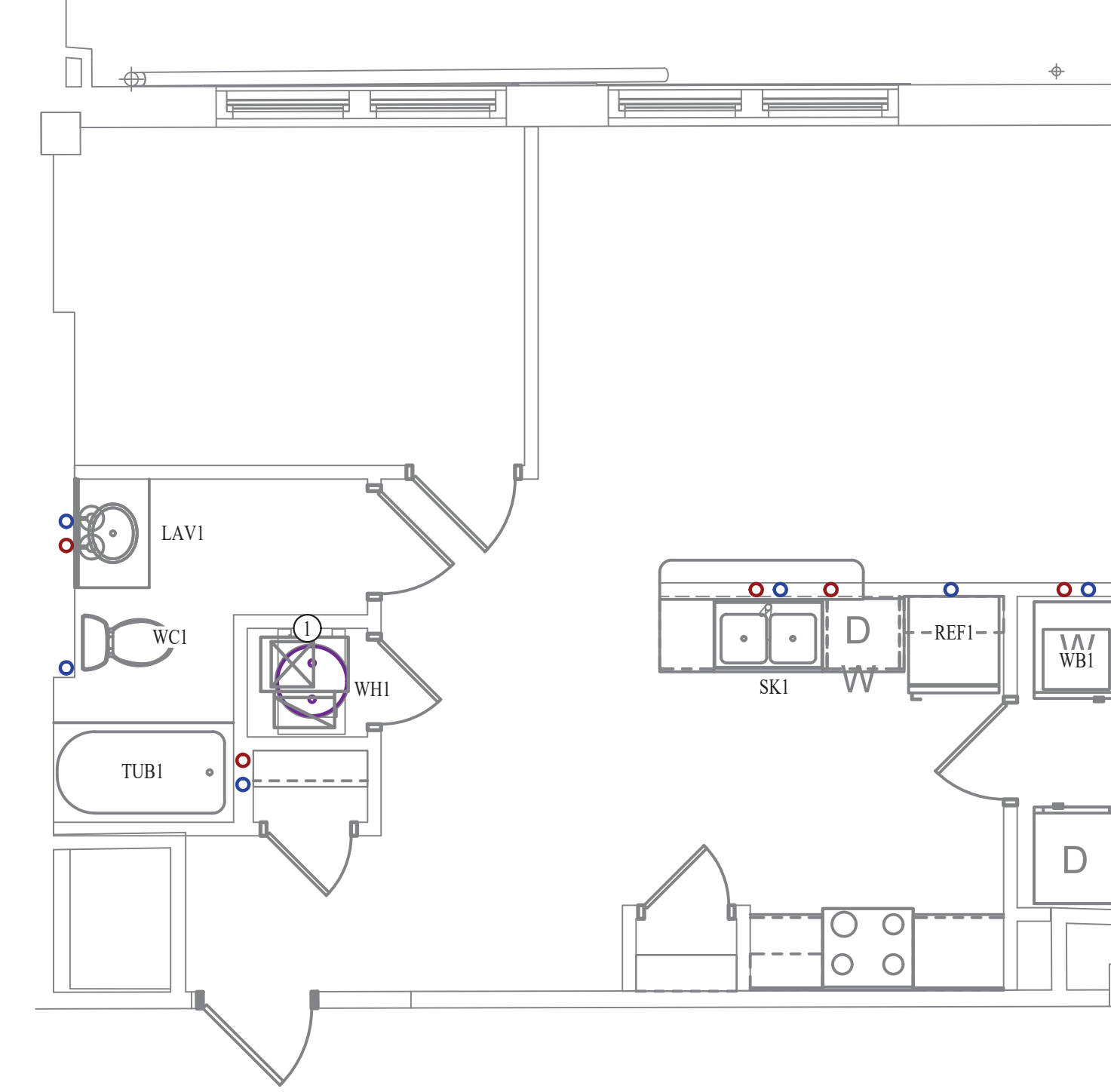


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

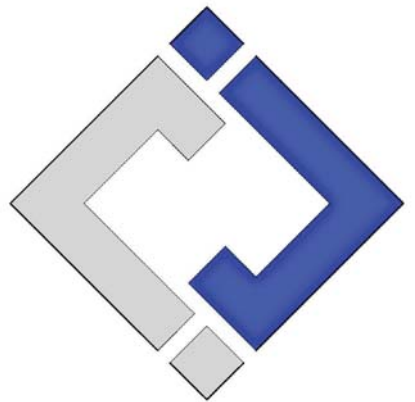
- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



WATER PLAN
SCALE: 1/4" = 1'-0"



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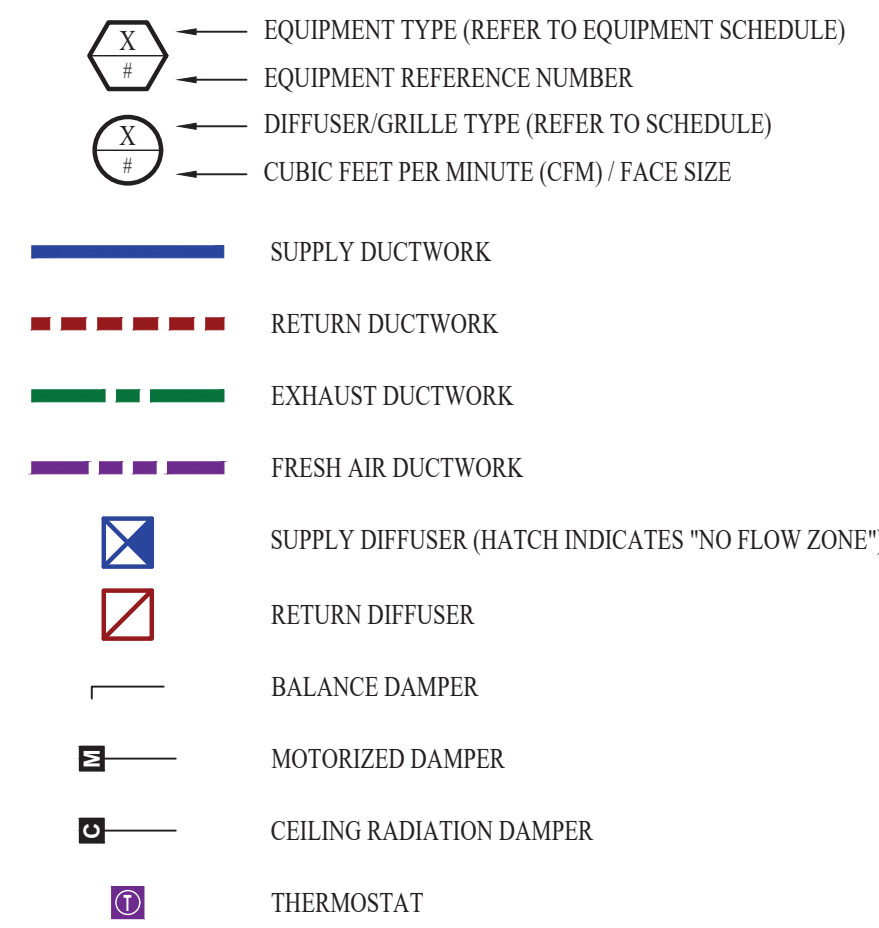
SHEET TITLE

1-BEDROOM-G UNIT PLAN

SHEET NUMBER

UP-1.G

HVAC PLAN SYMBOL LEGEND

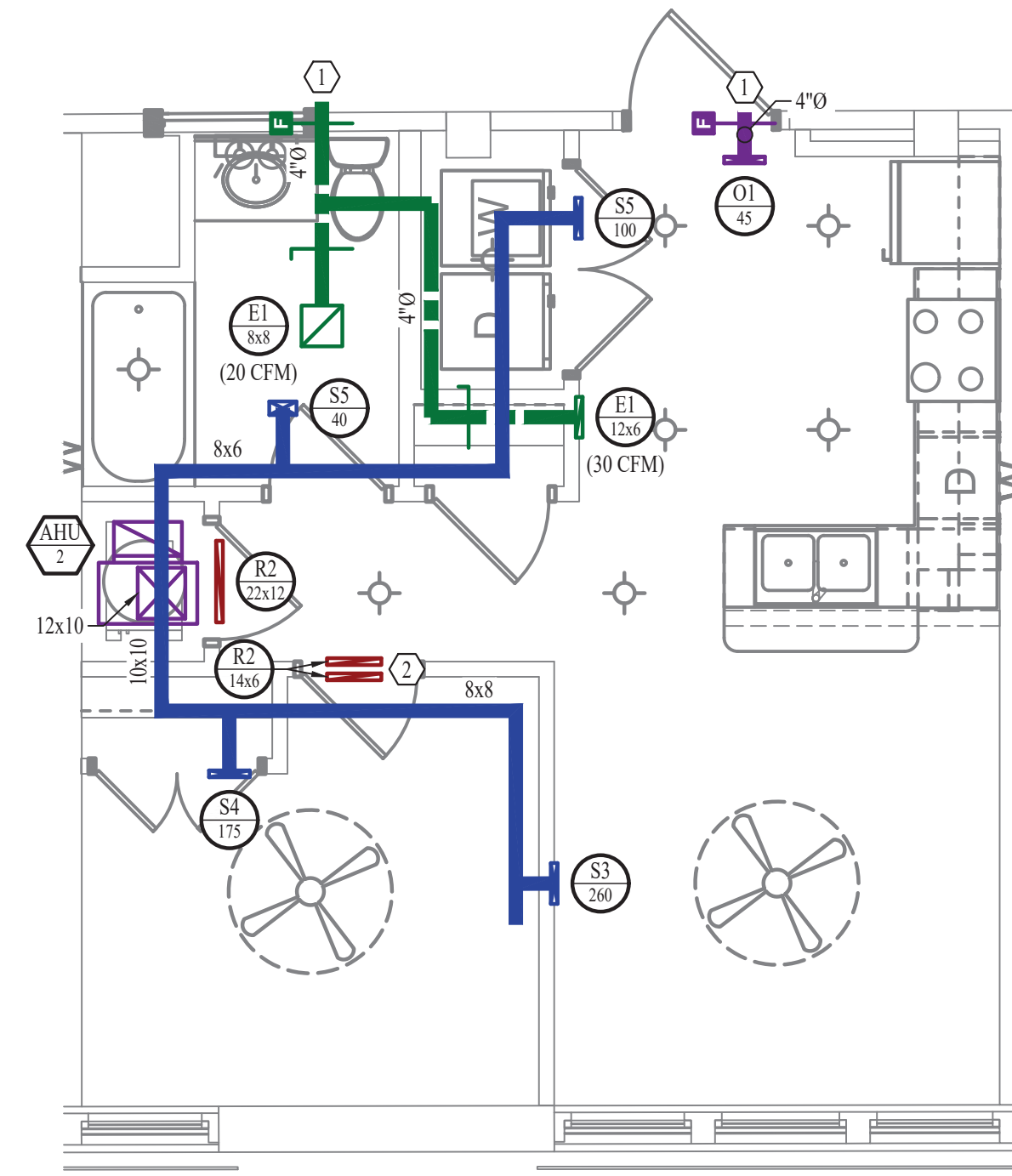


HVAC PLAN GENERAL NOTES:

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- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

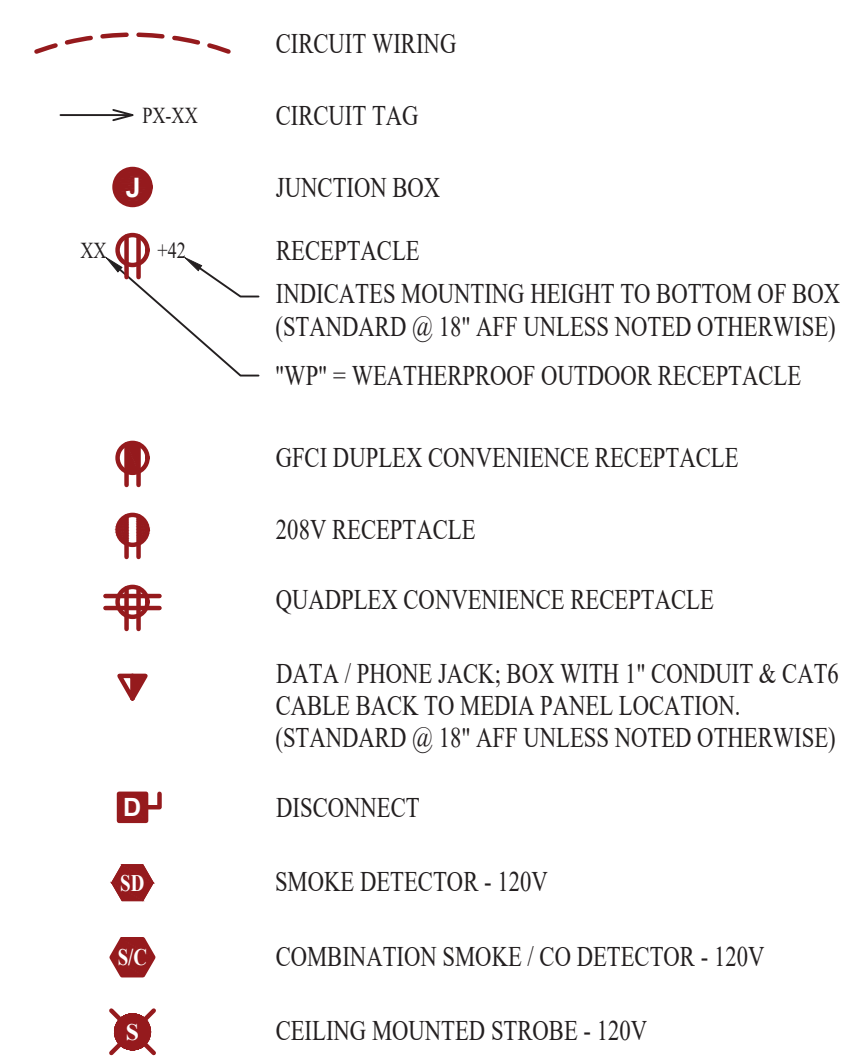
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

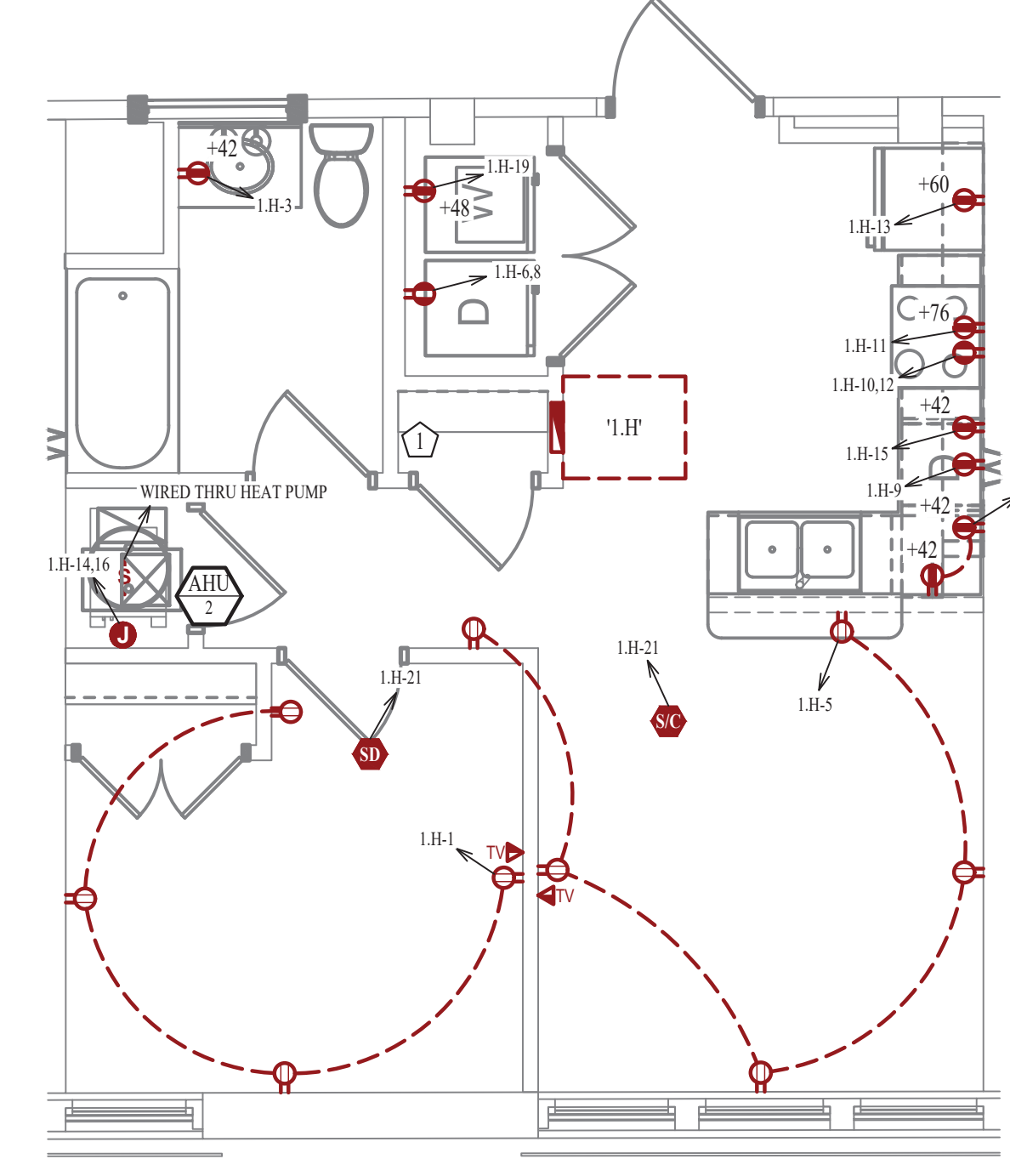


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

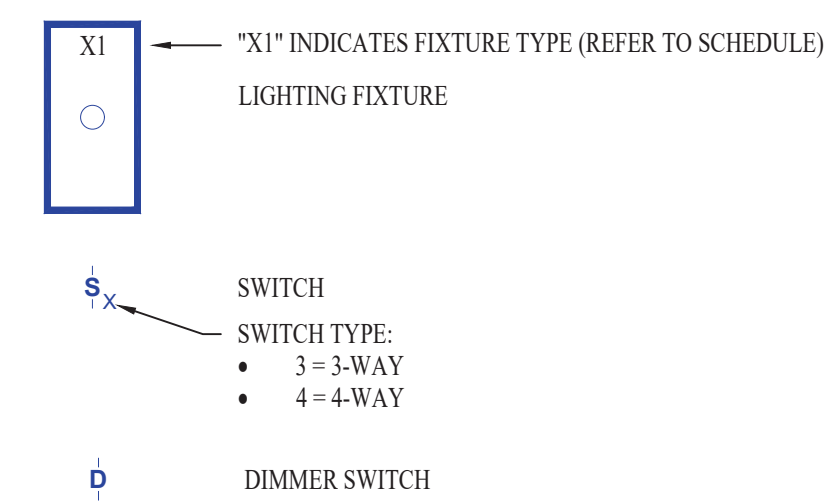
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

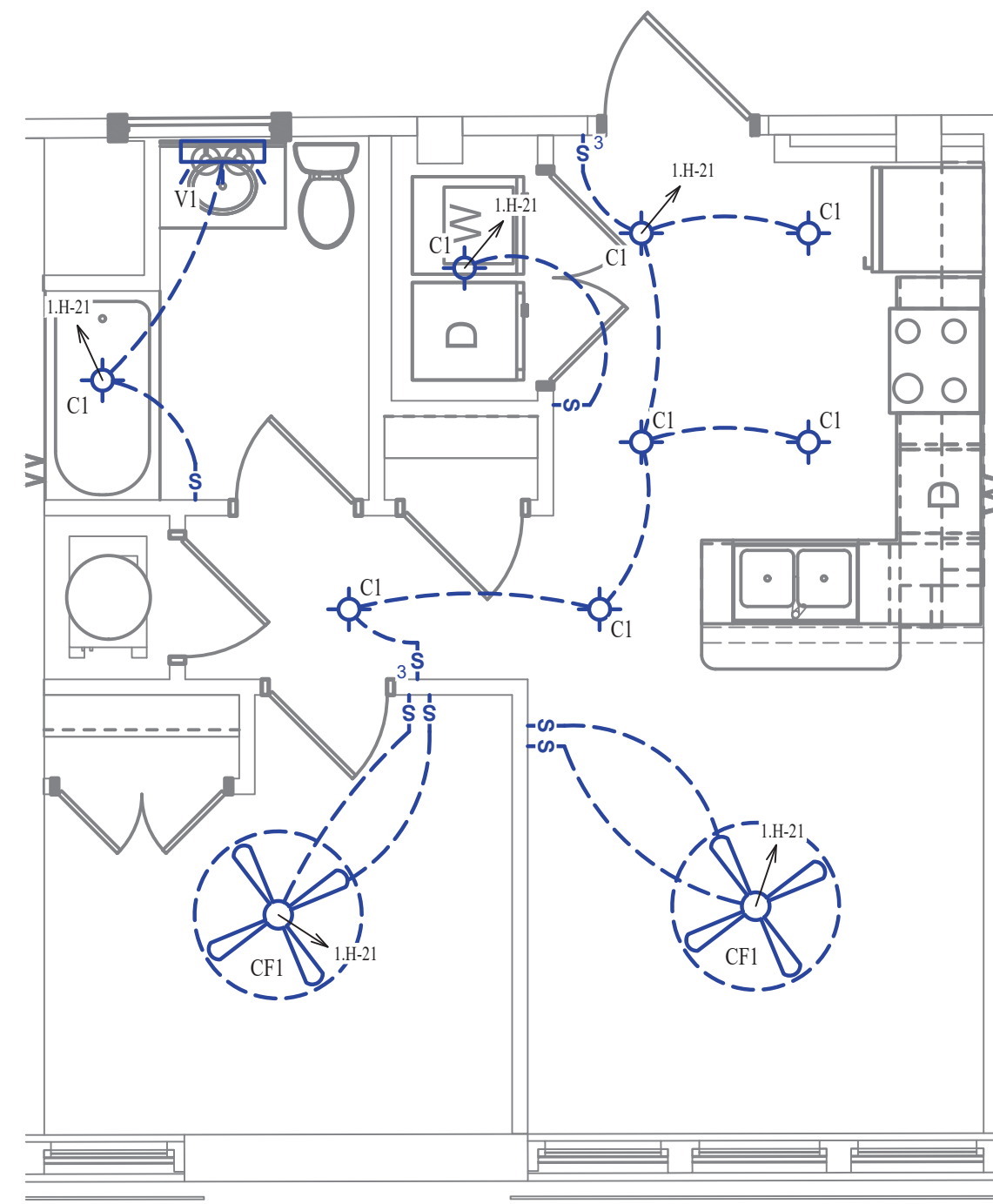
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

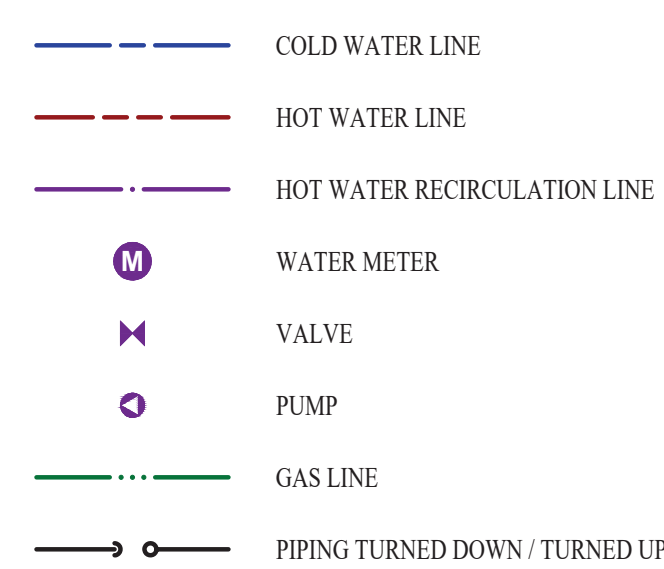
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

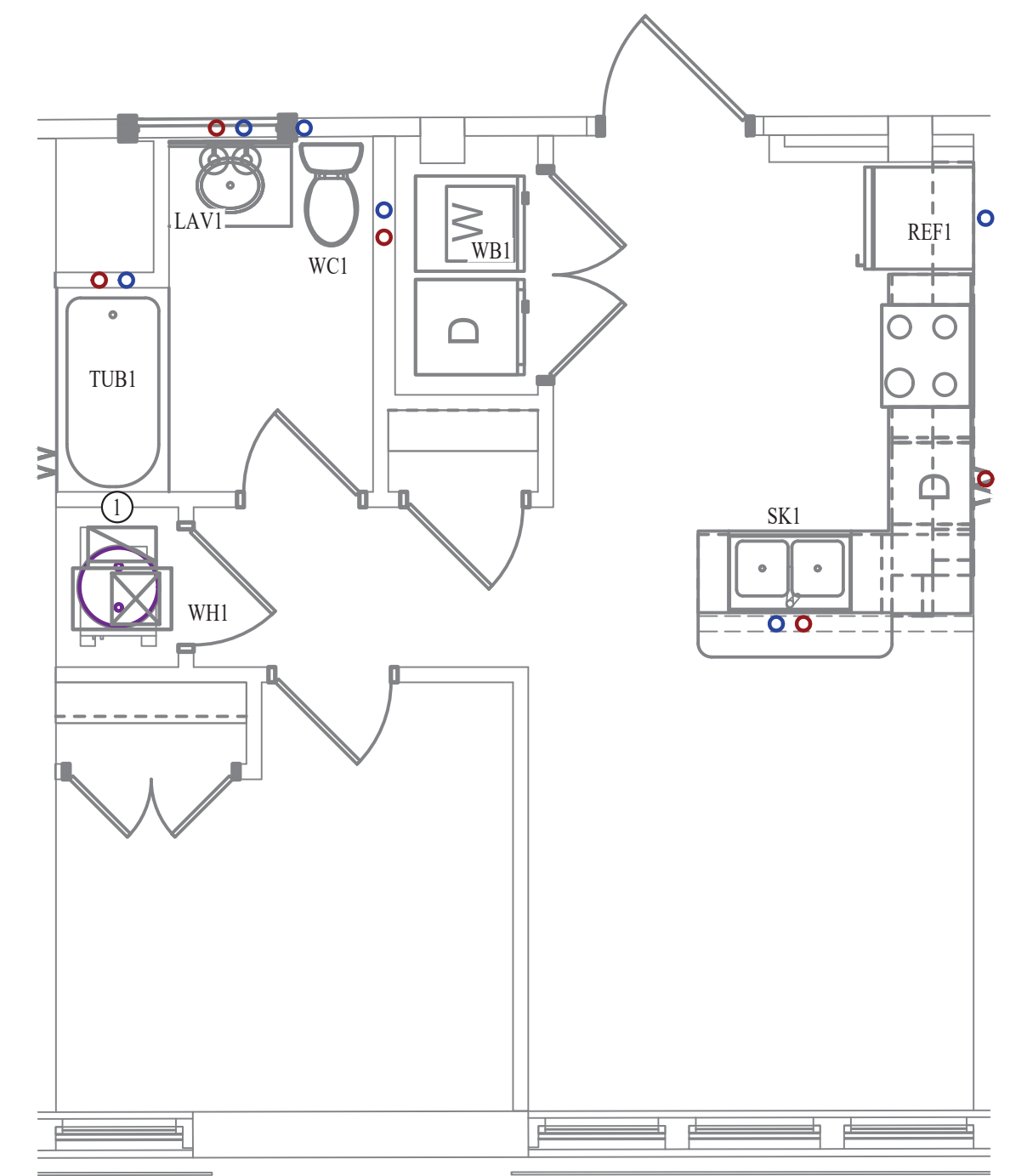


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

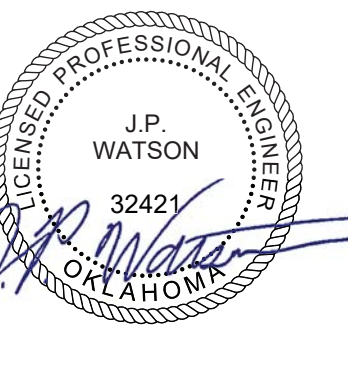
WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

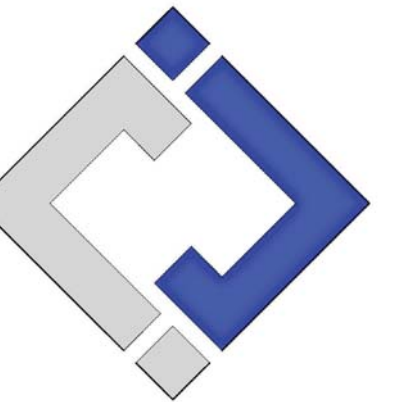


WATER PLAN

SCALE: 1/4" = 1'-0"



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www.j-squaredeng.com

J2 PROJECT No: J20395
J2 DESIGN: KEL

ISSUE TITLE DATE
PERMIT SET 10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
1537 NE 24th Street
Oklahoma City, OK, 73111

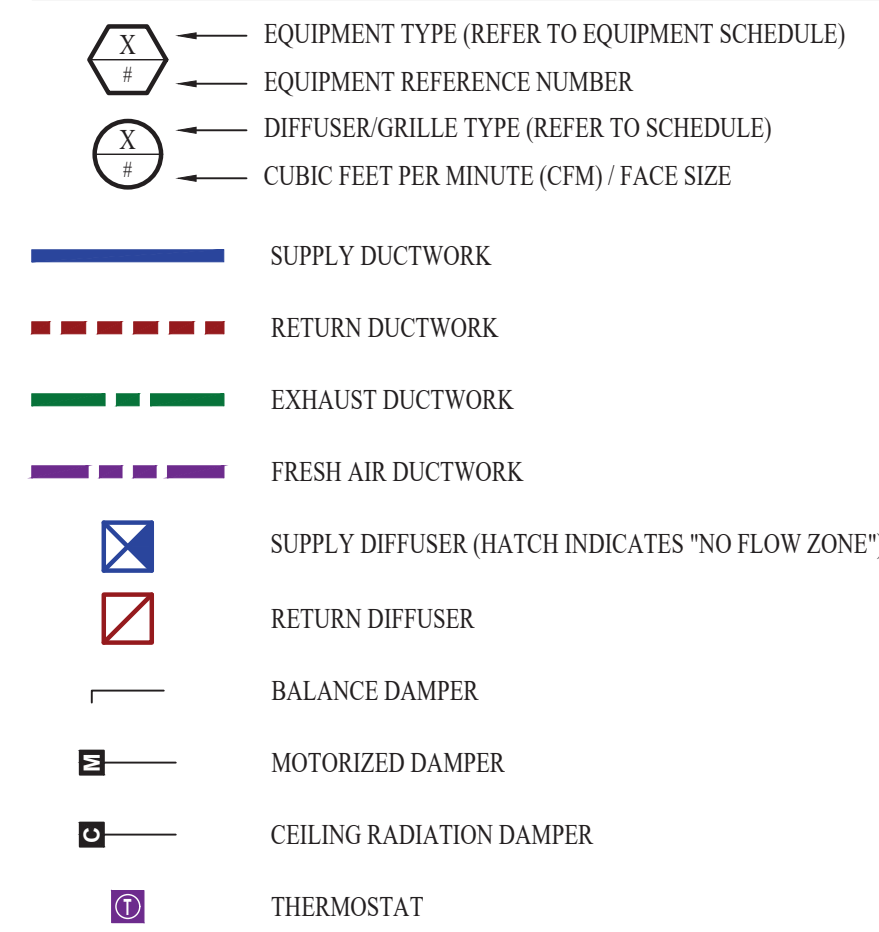
SHEET TITLE

1-BEDROOM-H UNIT PLAN

SHEET NUMBER

UP-1.H

HVAC PLAN SYMBOL LEGEND

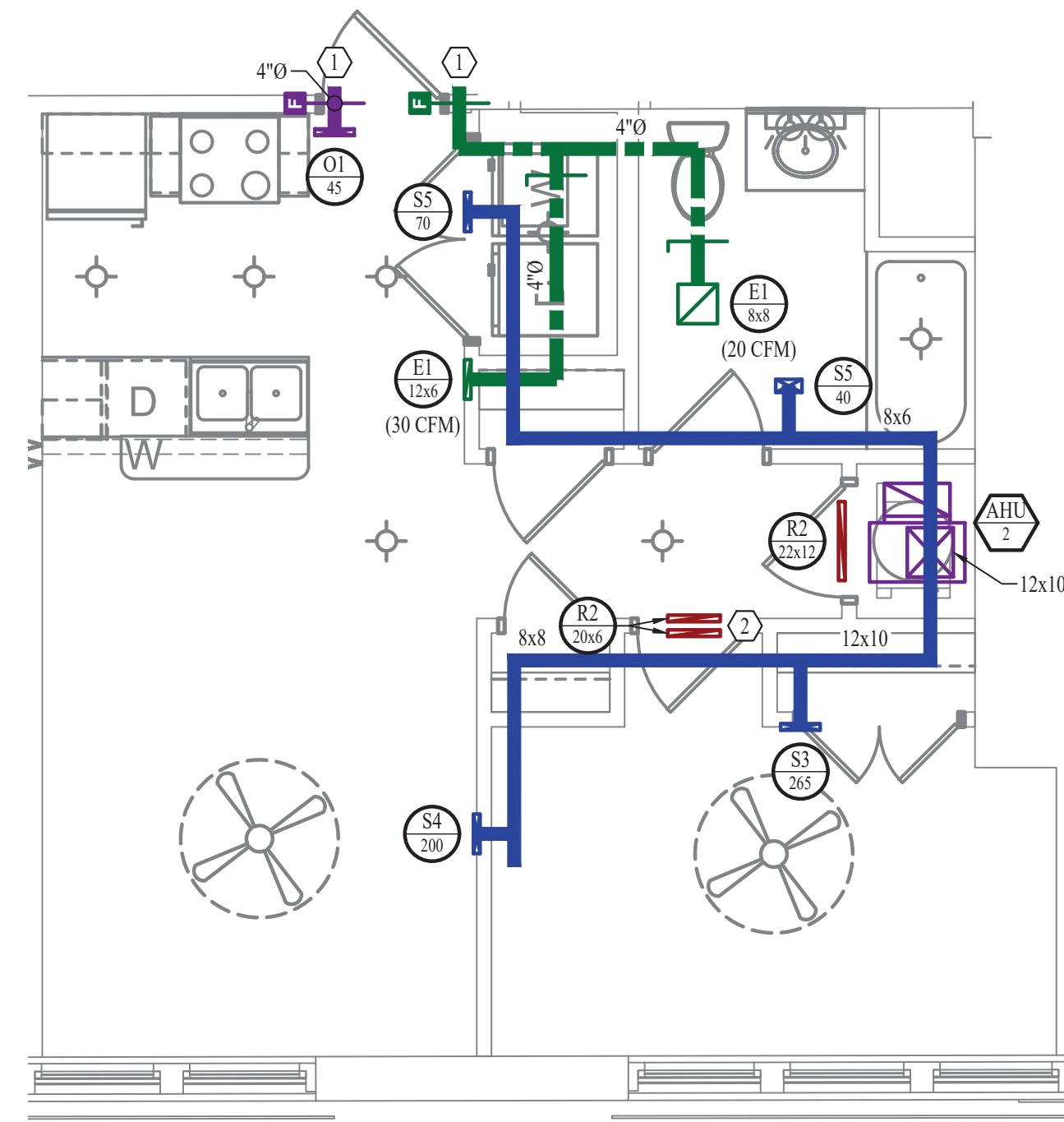


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

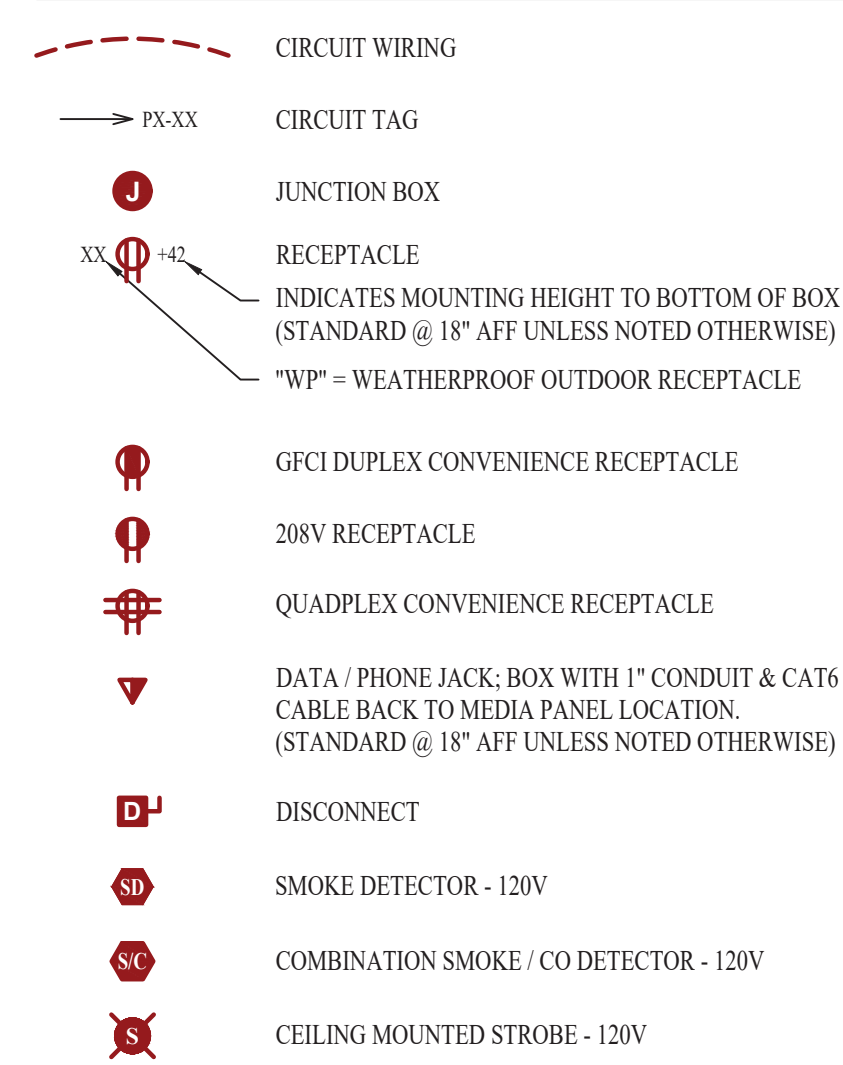
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

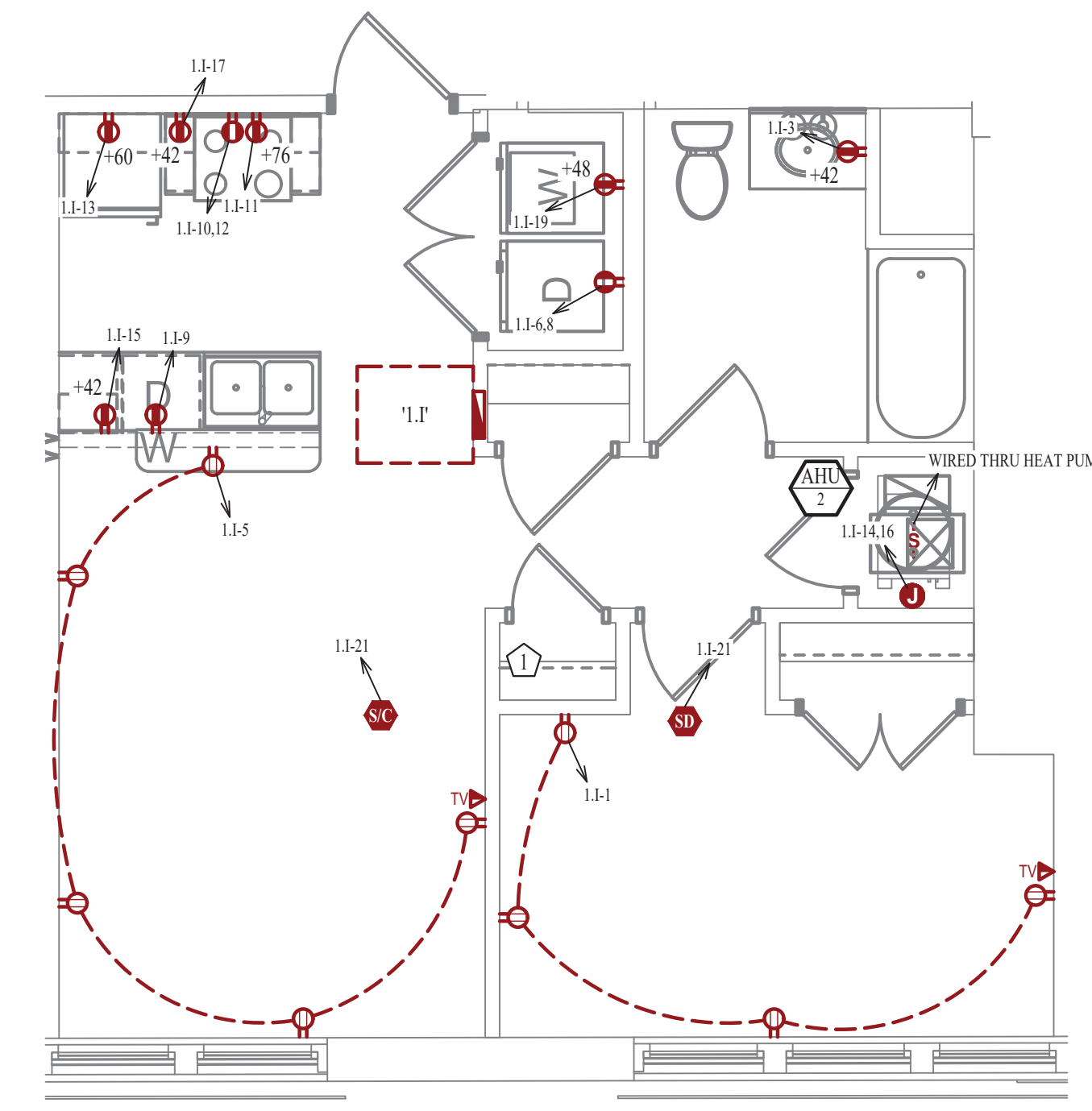


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

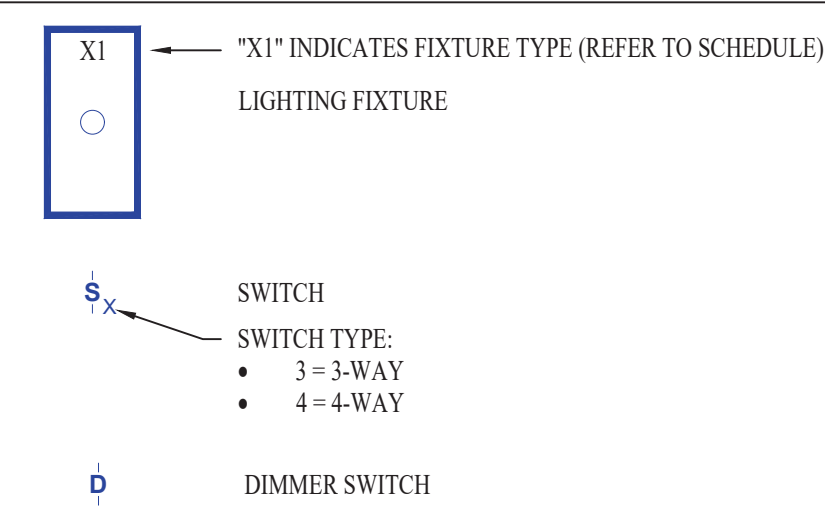
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

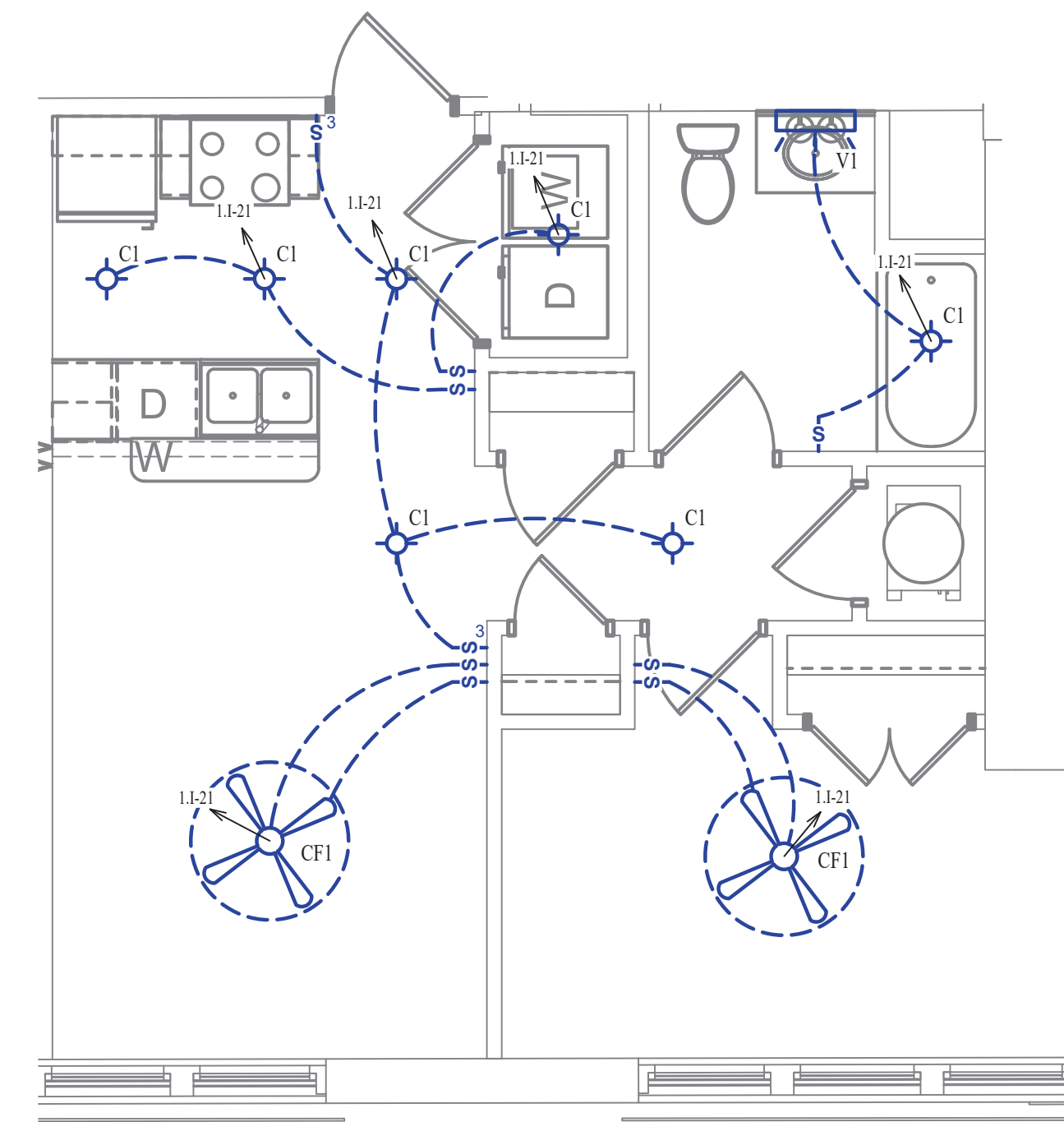
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

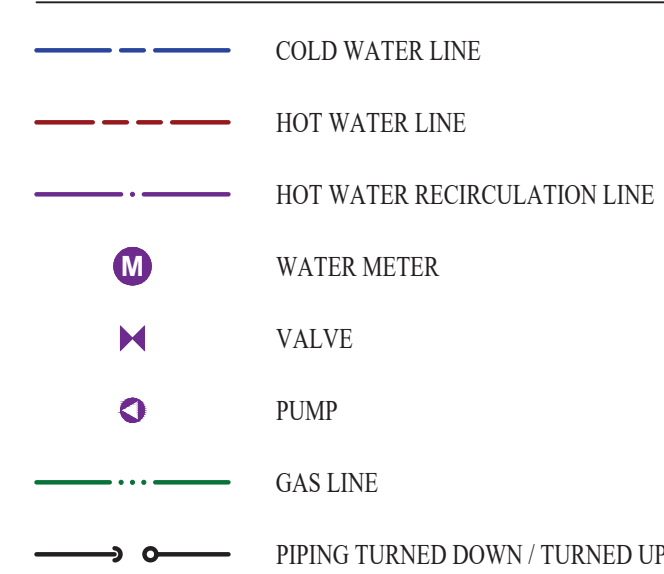
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

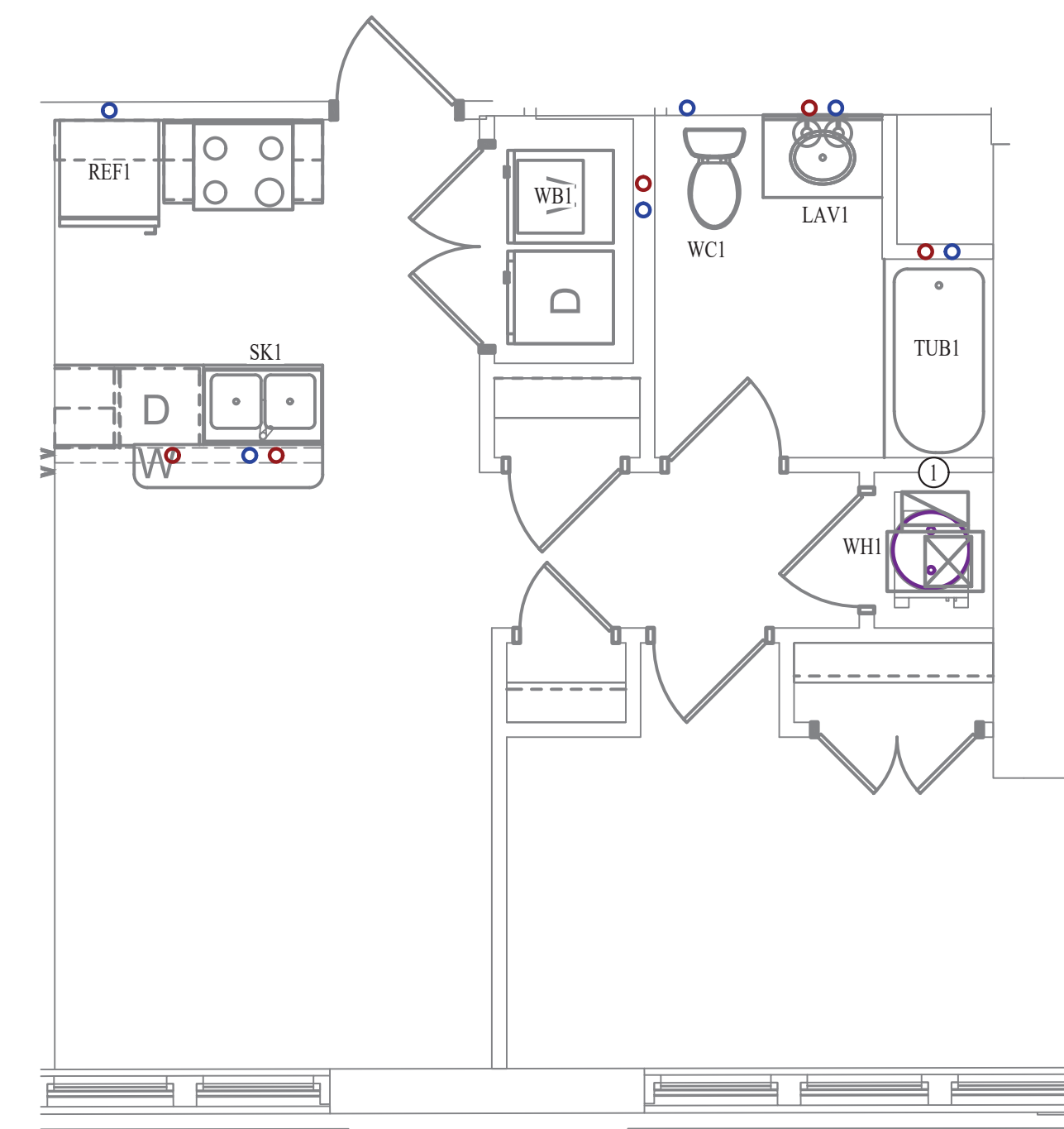


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

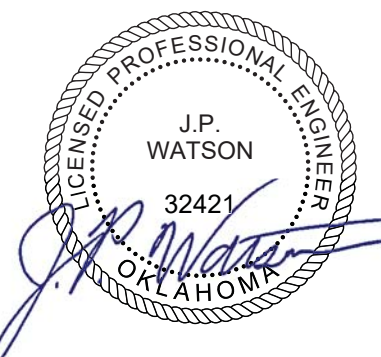
WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

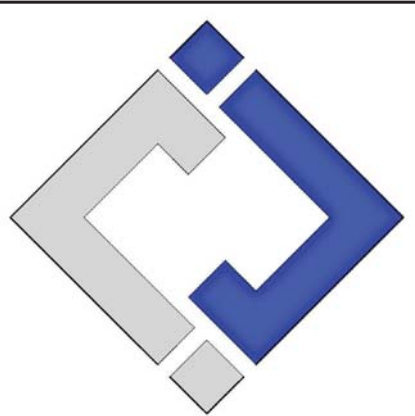


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
PE-32421
OK Certificate of Authority # 8654



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J2 PROJECT No:	J20395
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Mechanical - Electrical - Plumbing Design Drawings for
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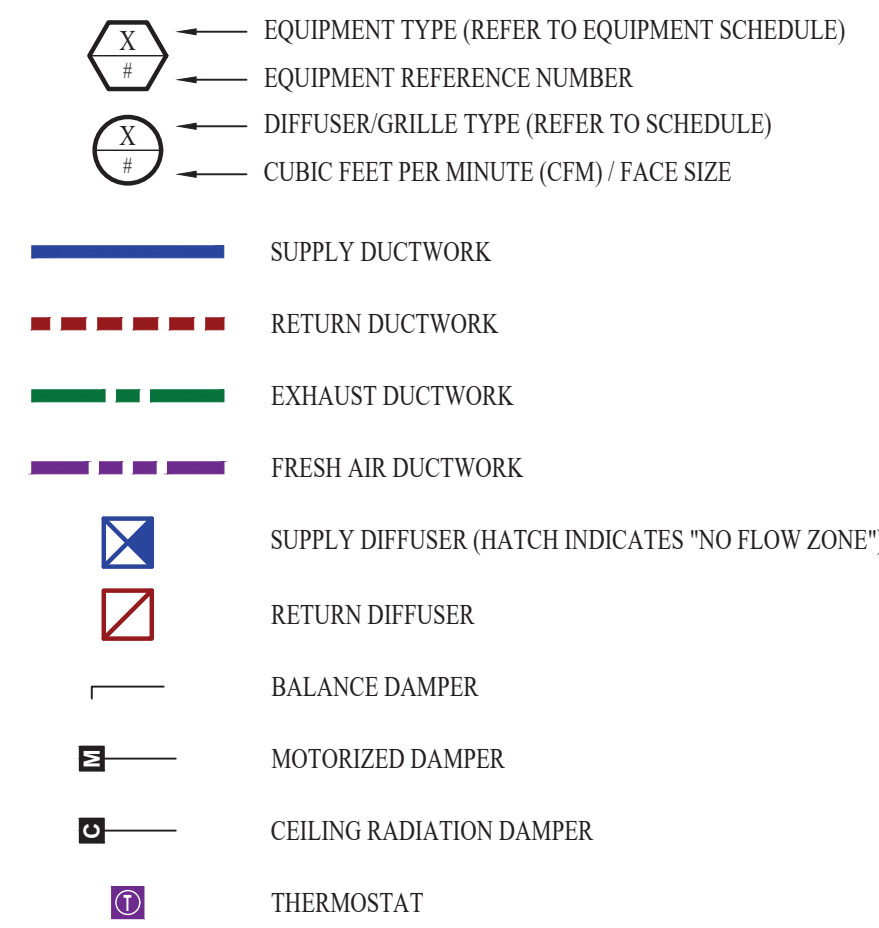
SHEET TITLE

1-BEDROOM-1 UNIT PLAN

SHEET NUMBER

UP-1.1

HVAC PLAN SYMBOL LEGEND

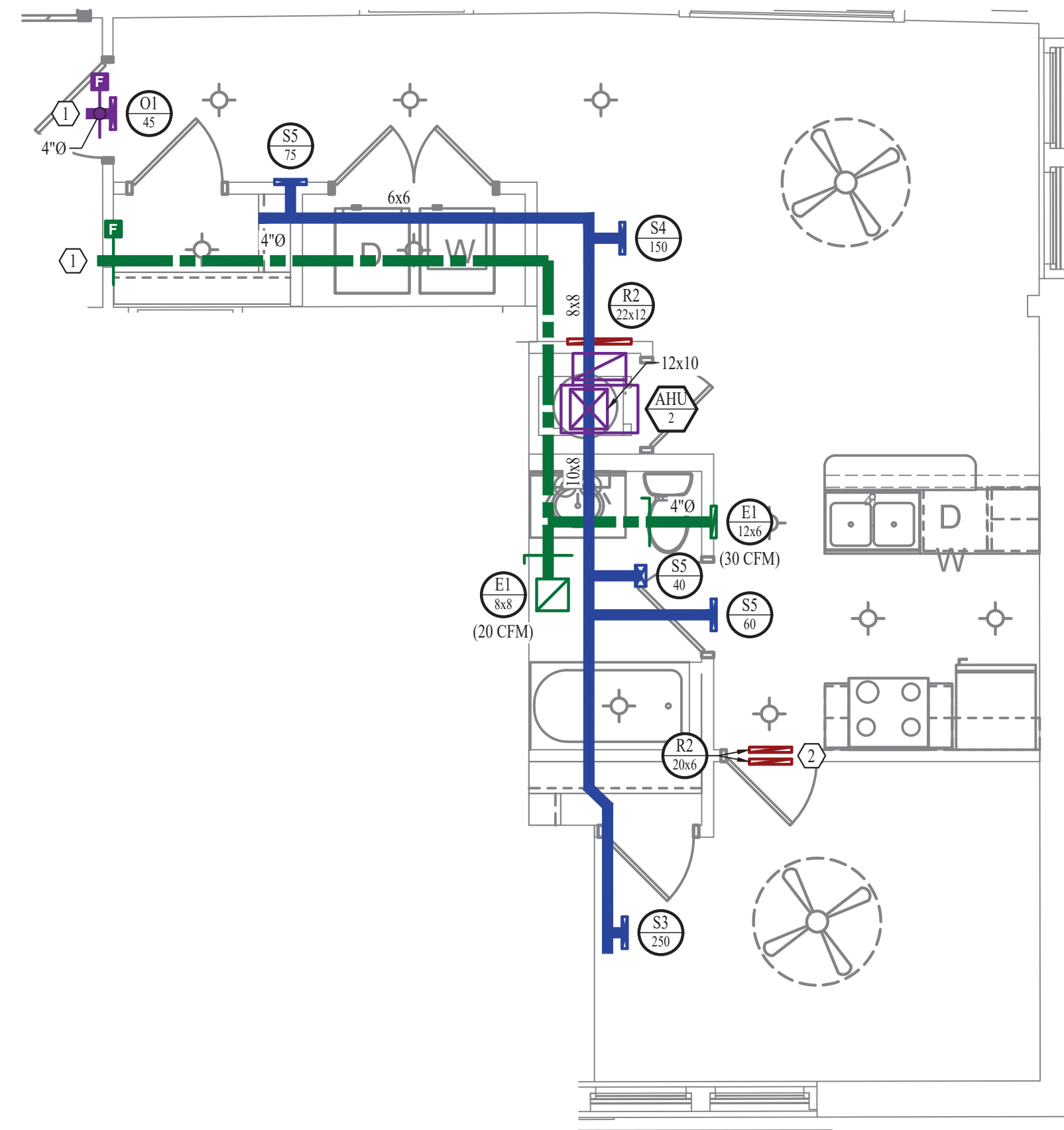


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

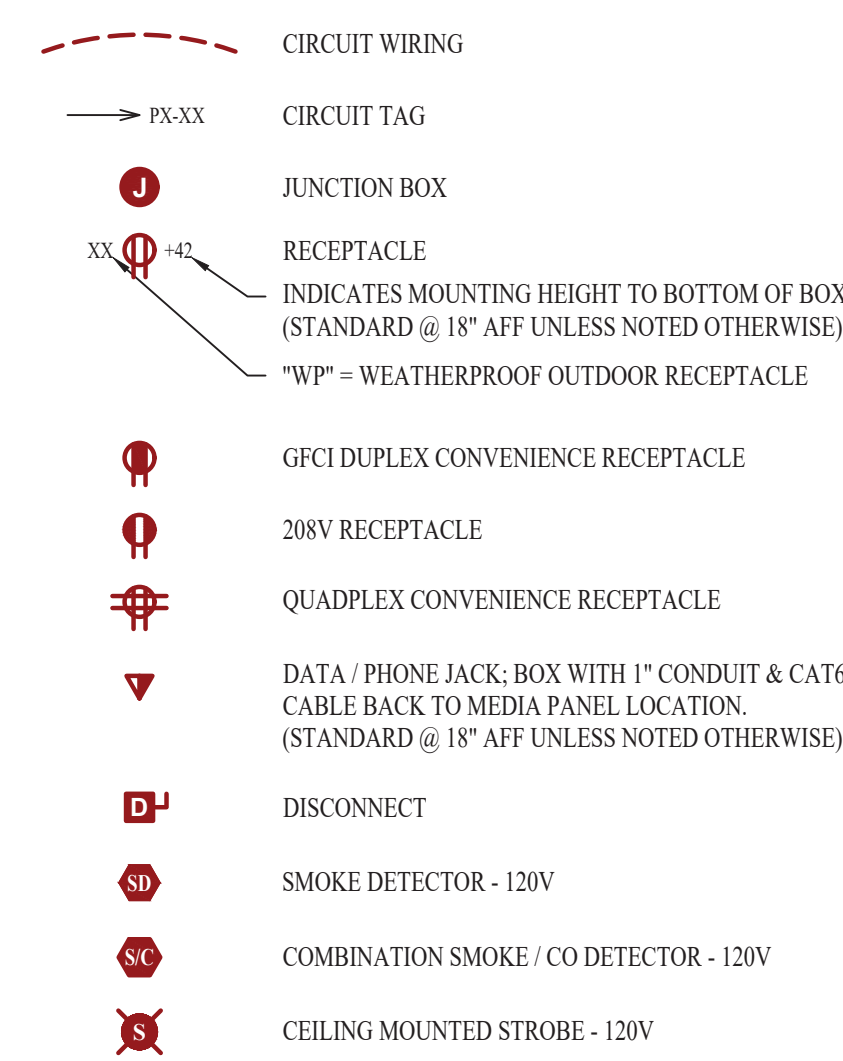
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

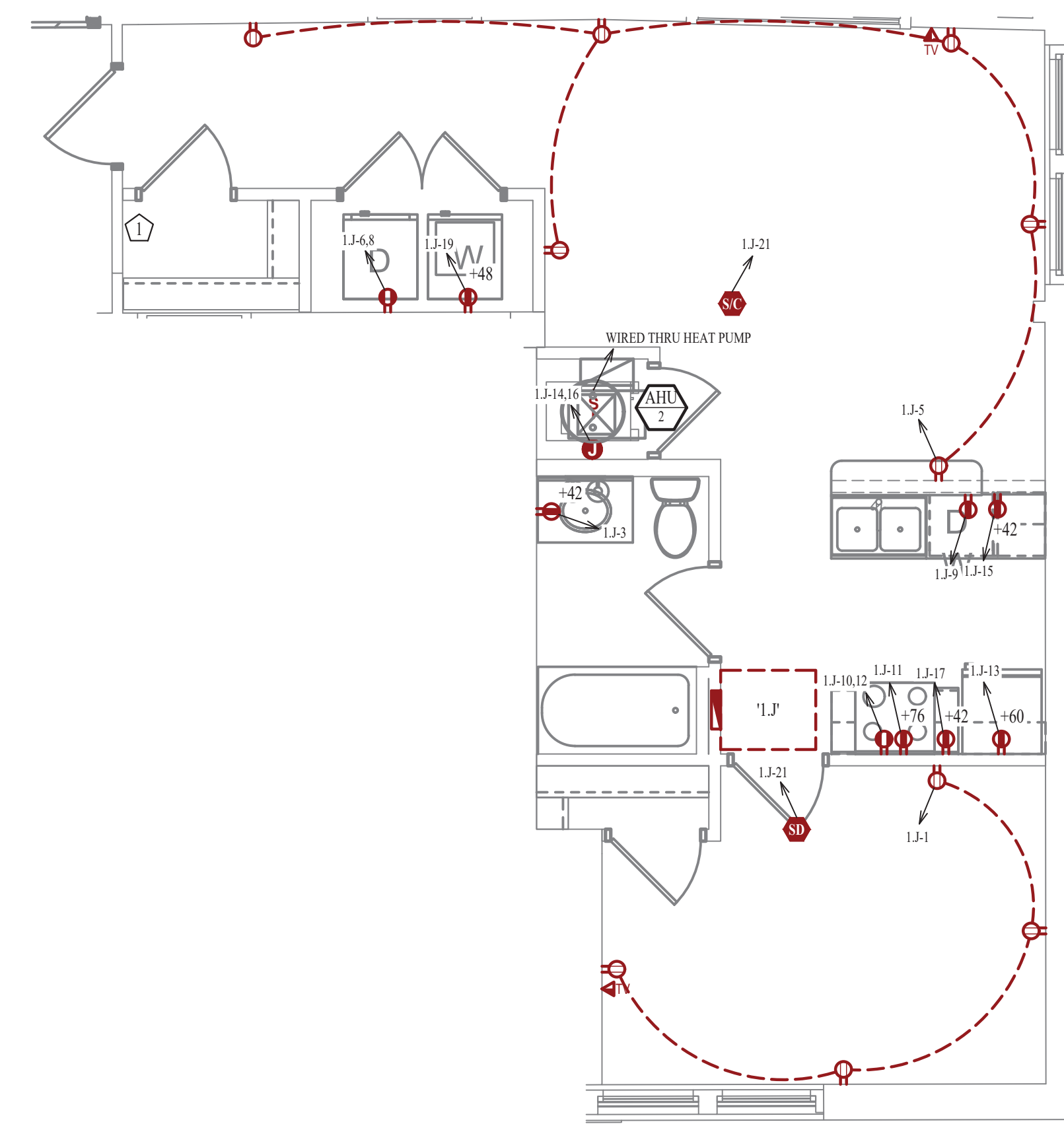


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

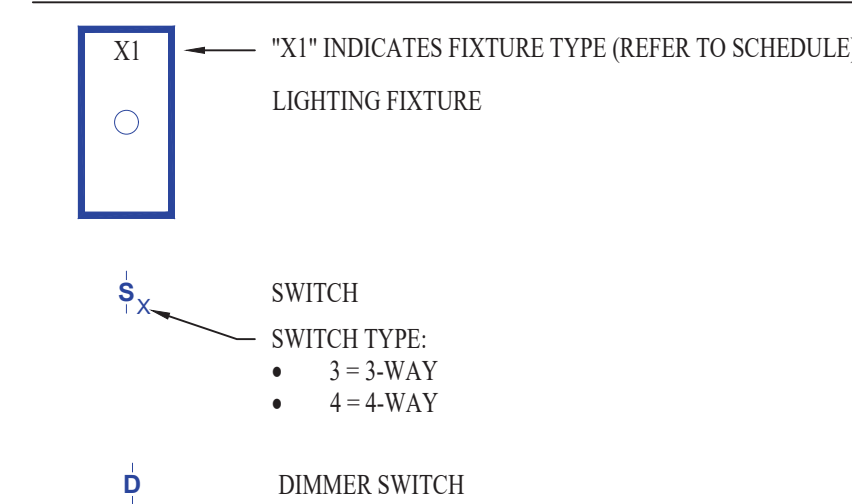
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

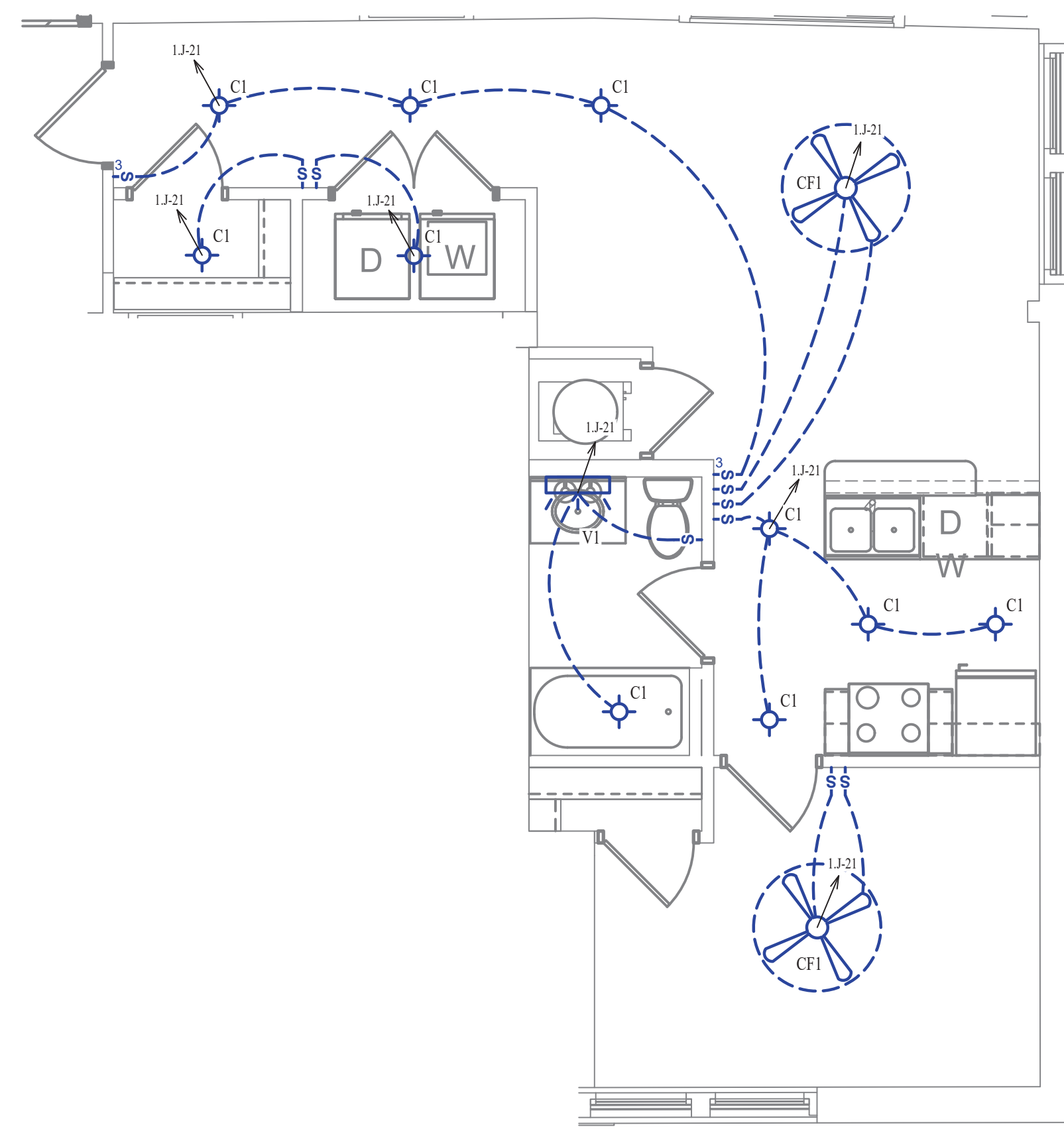
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

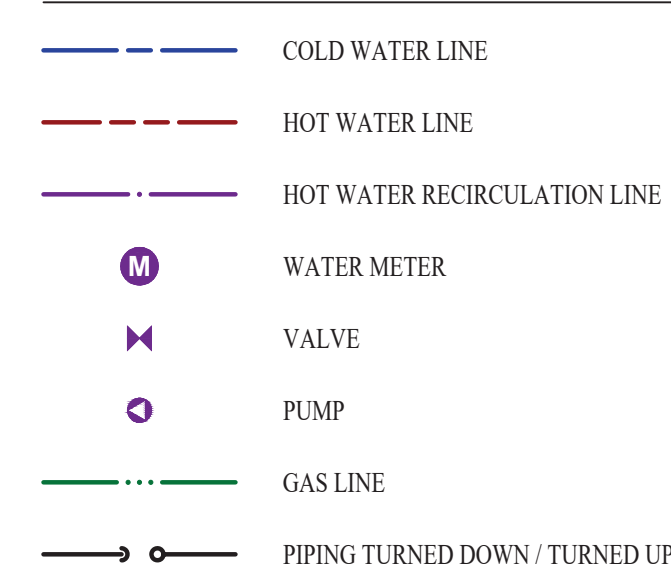
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

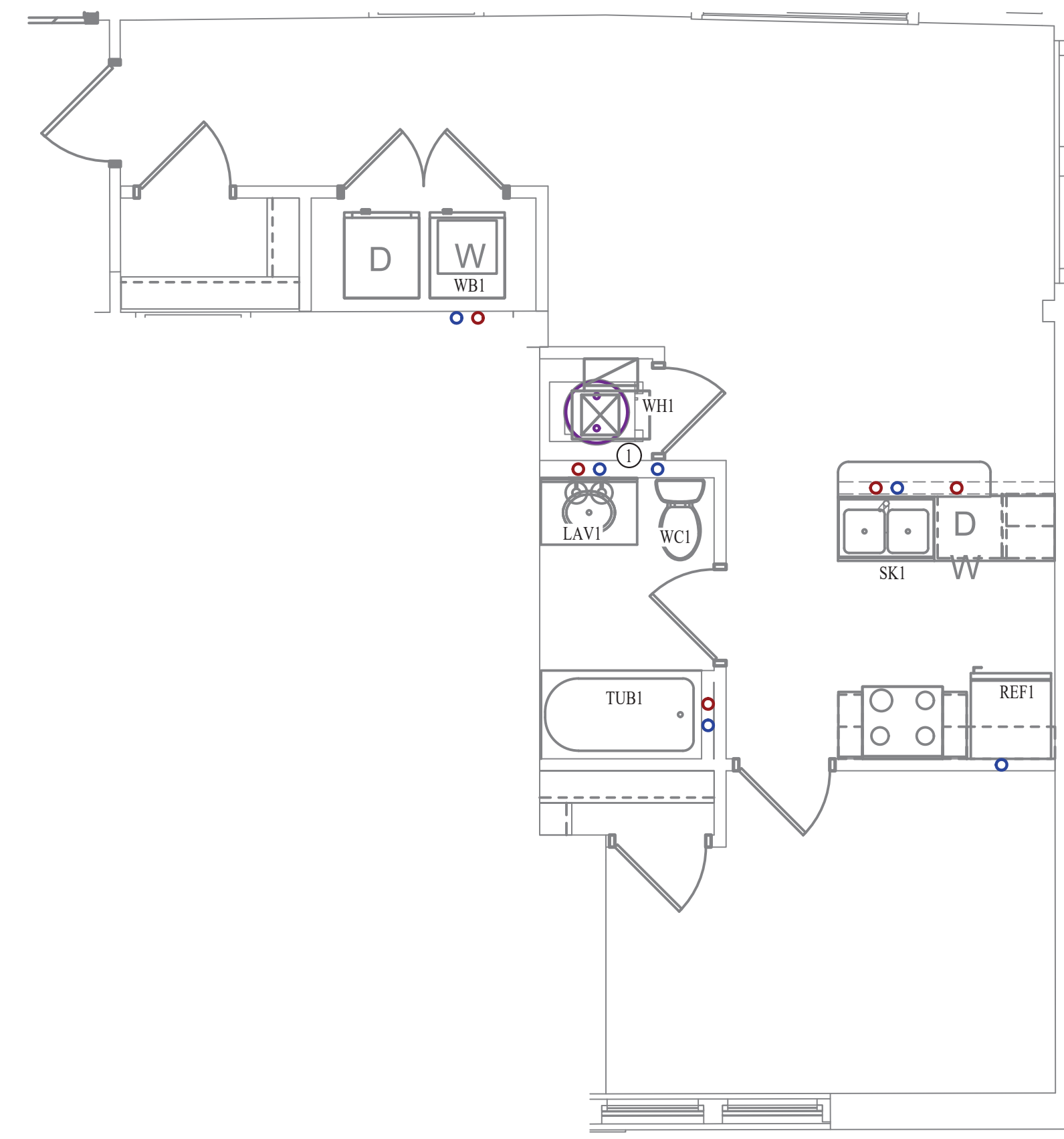


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 1 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

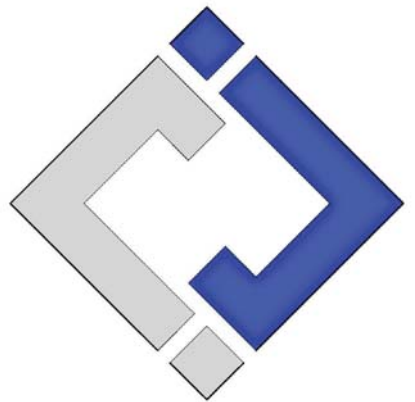


WATER PLAN

SCALE: 1/4" = 1'-0"



James Watson, P.E. October 8th, 2021
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J2 PROJECT No: J20395

J2 DESIGN: KEL

ISSUE TITLE DATE

PERMIT SET 10-08-2021

SHEET TITLE

1-BEDROOM-J UNIT PLAN

SHEET NUMBER

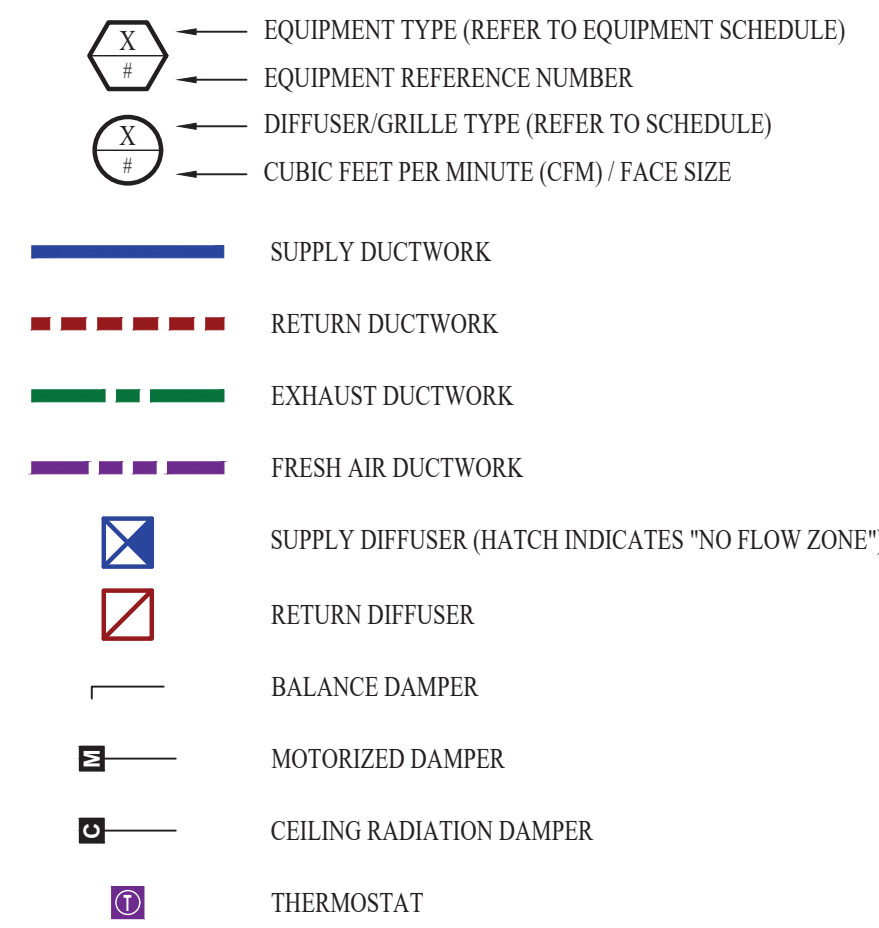
UP-1.J

Mechanical - Electrical - Plumbing Design Drawings for

Marcus Garvey Harmony Apartments

1537 NE 24th Street
Oklahoma City, OK, 73111

HVAC PLAN SYMBOL LEGEND

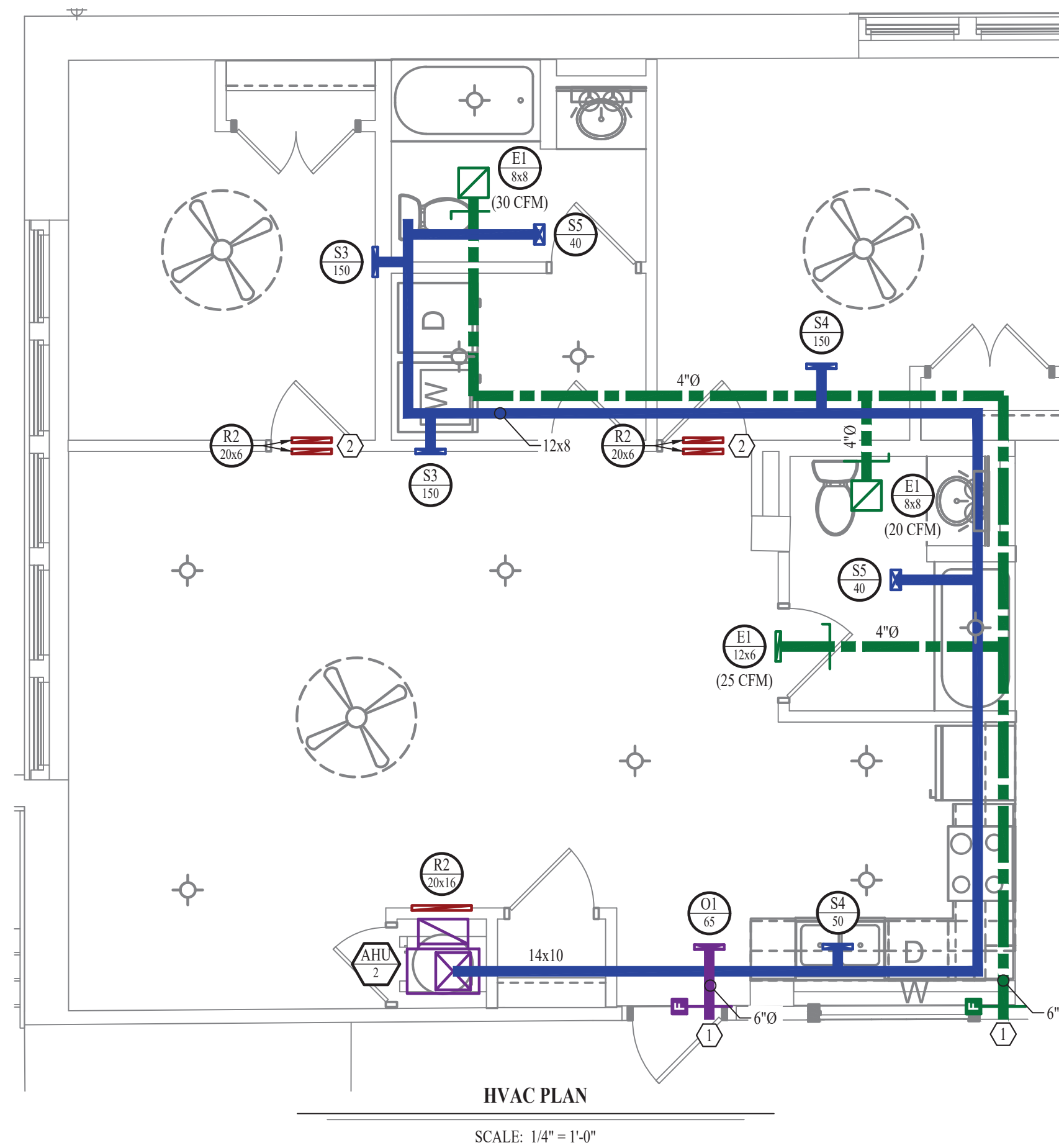


HVAC PLAN GENERAL NOTES:

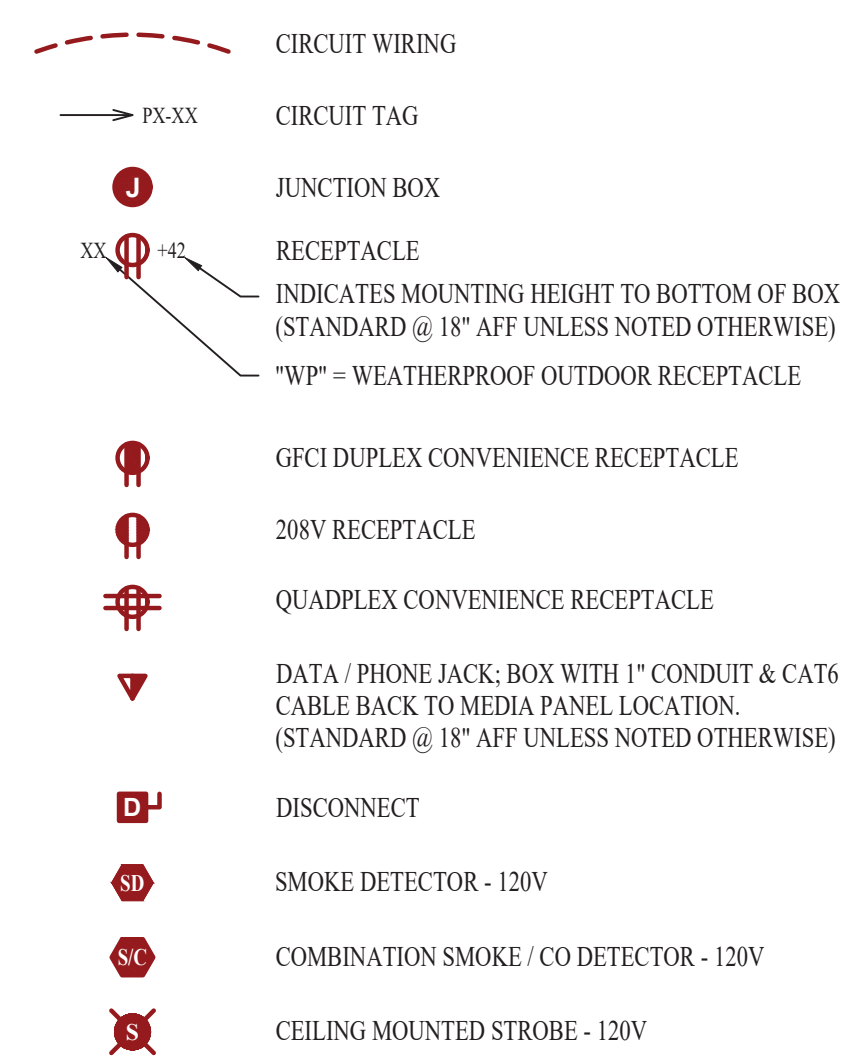
- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
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- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



POWER PLAN SYMBOL LEGEND

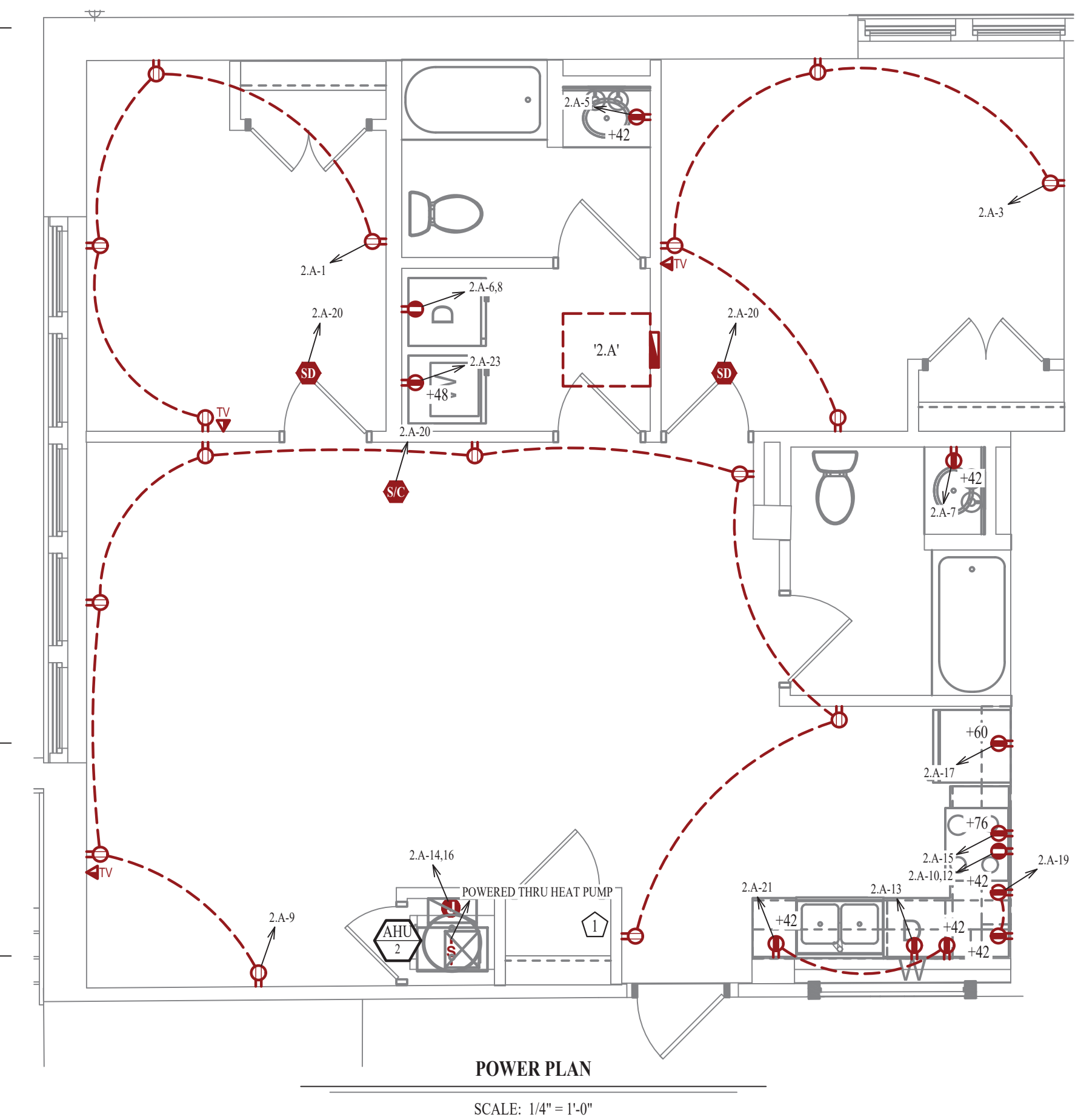


POWER PLAN GENERAL NOTES:

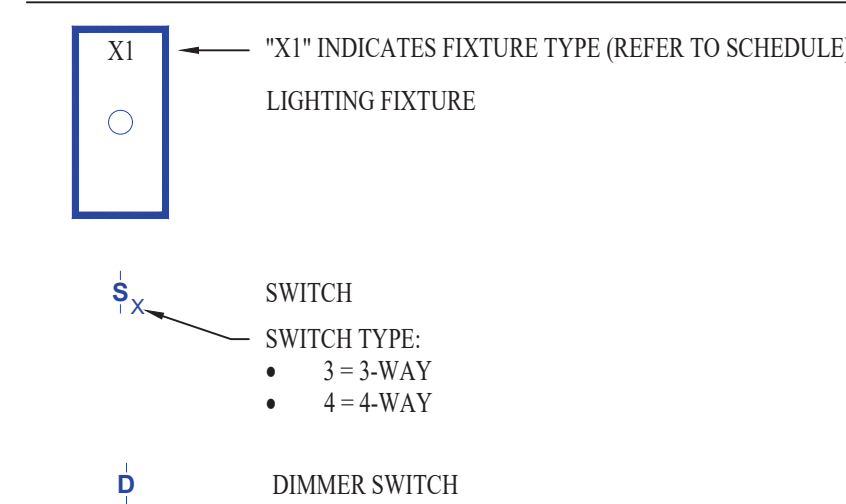
- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.

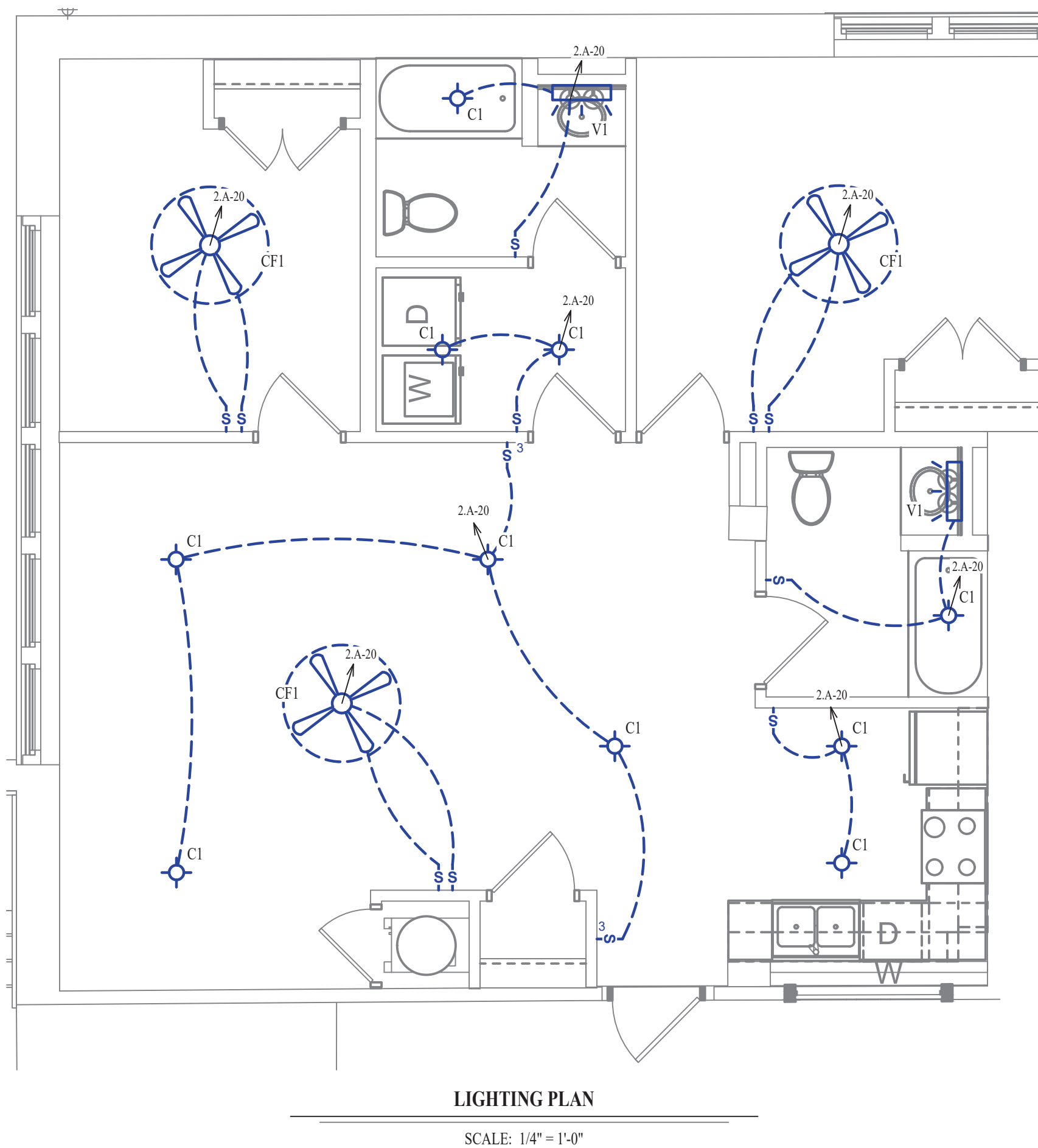


LIGHTING PLAN SYMBOL LEGEND

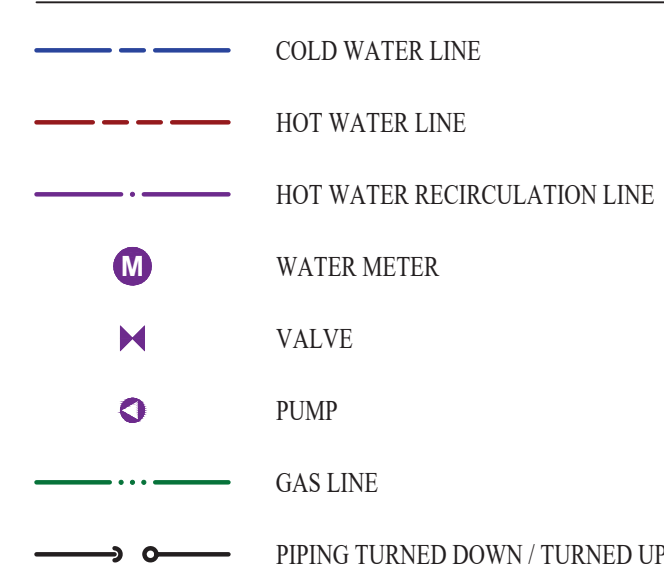


LIGHTING PLAN GENERAL NOTES:

- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



WATER PLAN SYMBOL LEGEND

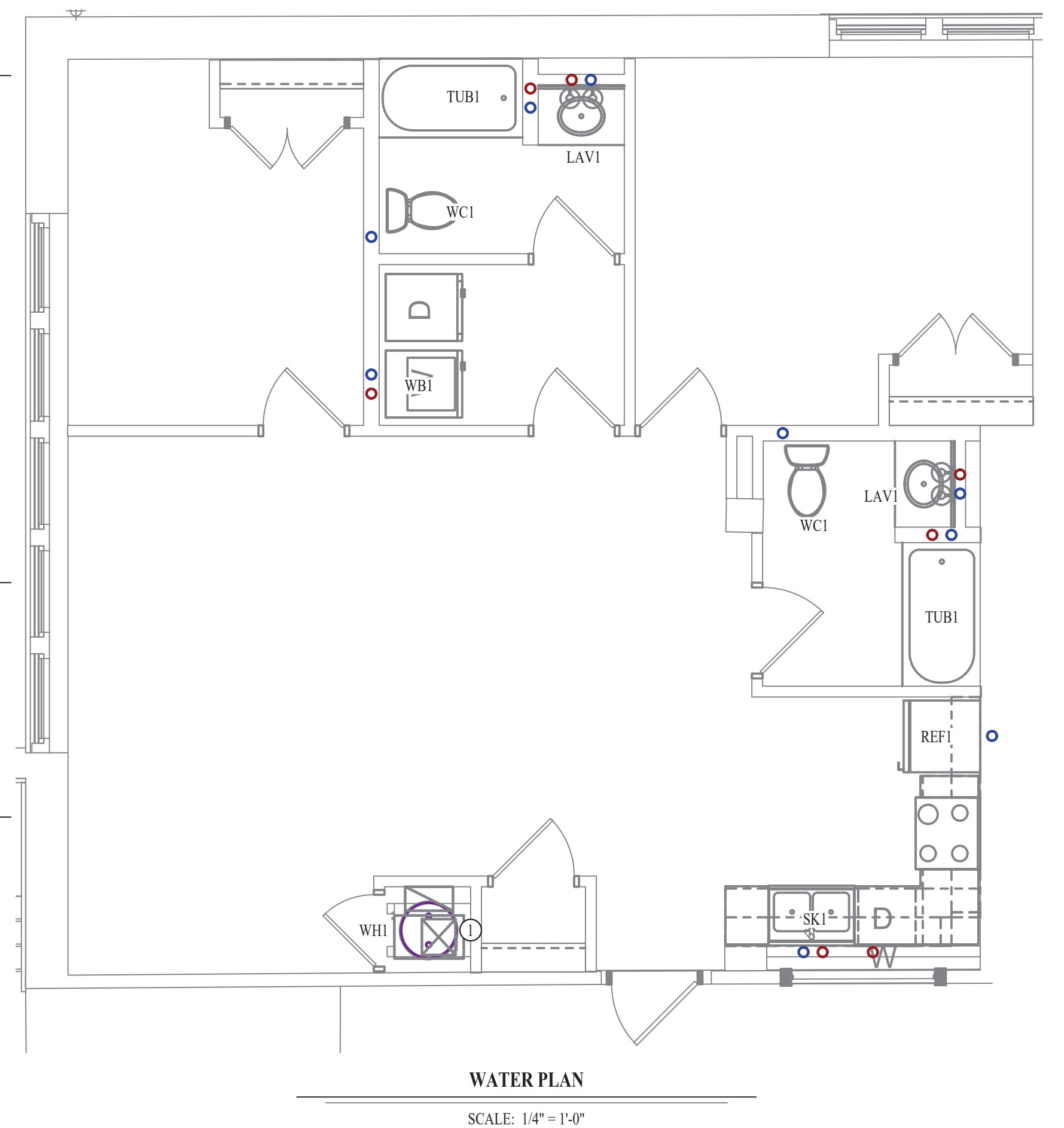


WATER PLAN GENERAL NOTES:

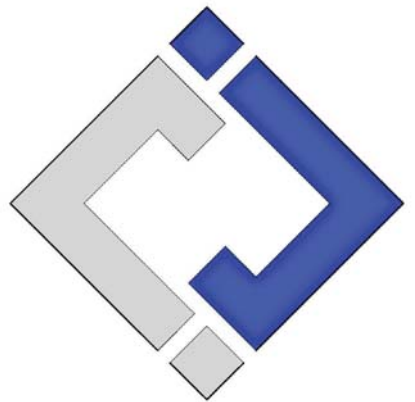
- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 2 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



James Watson, P.E. October 8th, 2021
PE-32421
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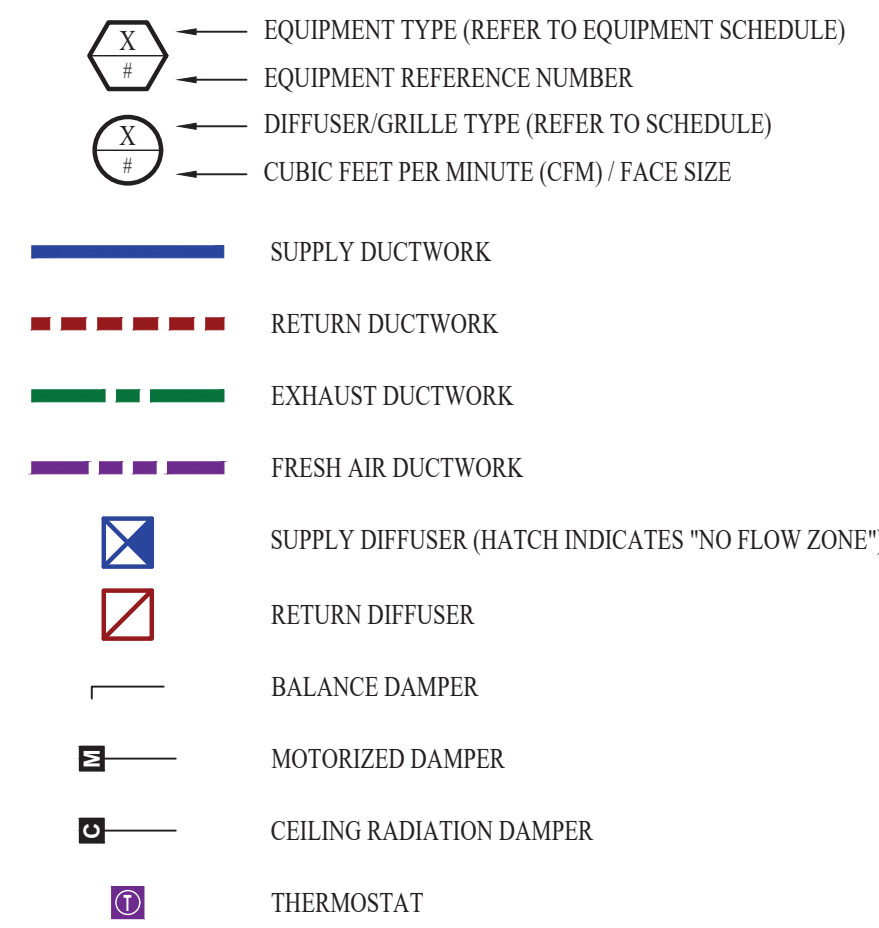
SHEET TITLE

2-BEDROOM-A UNIT PLAN

SHEET NUMBER

UP-2.A

HVAC PLAN SYMBOL LEGEND

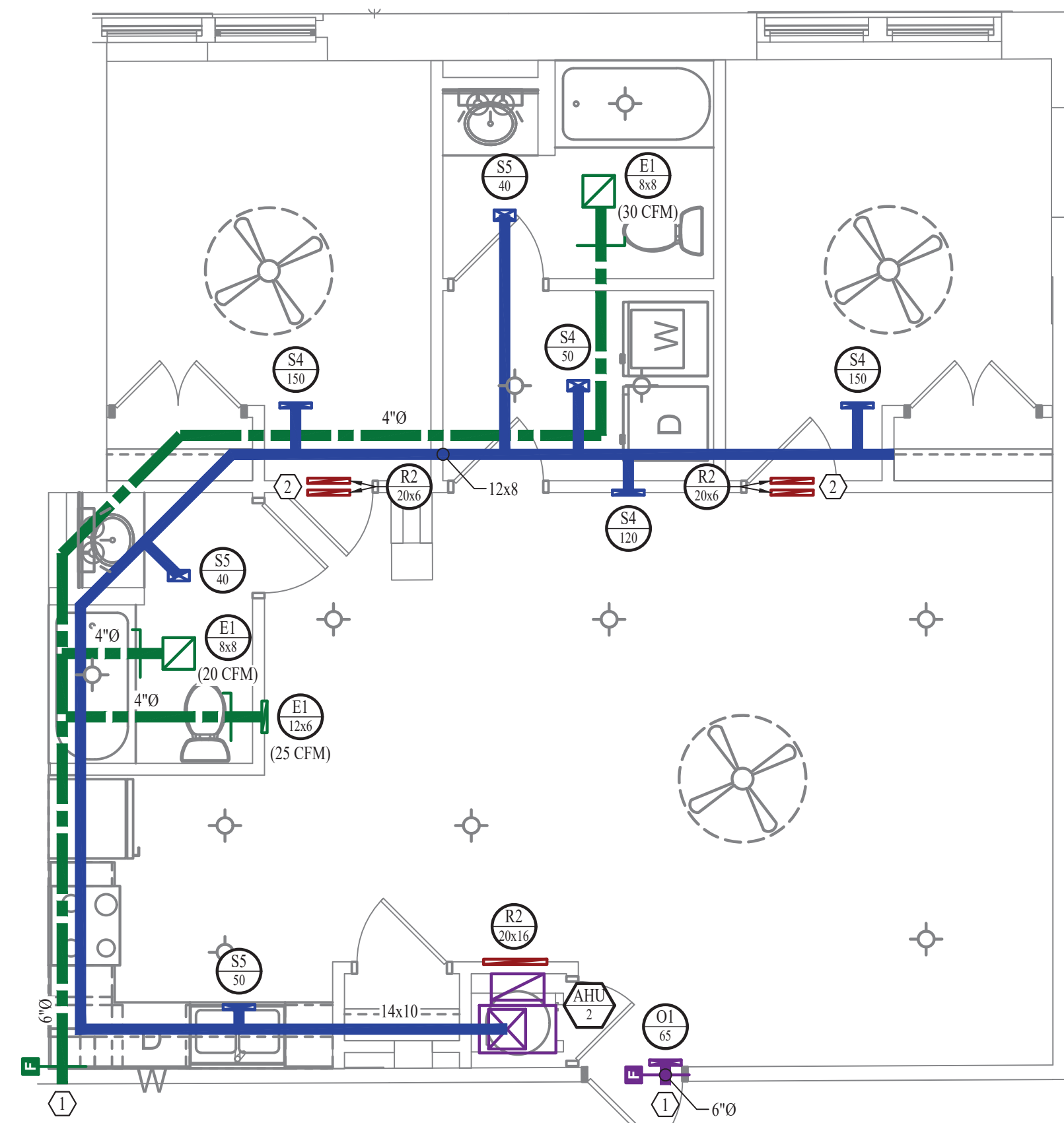


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
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- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

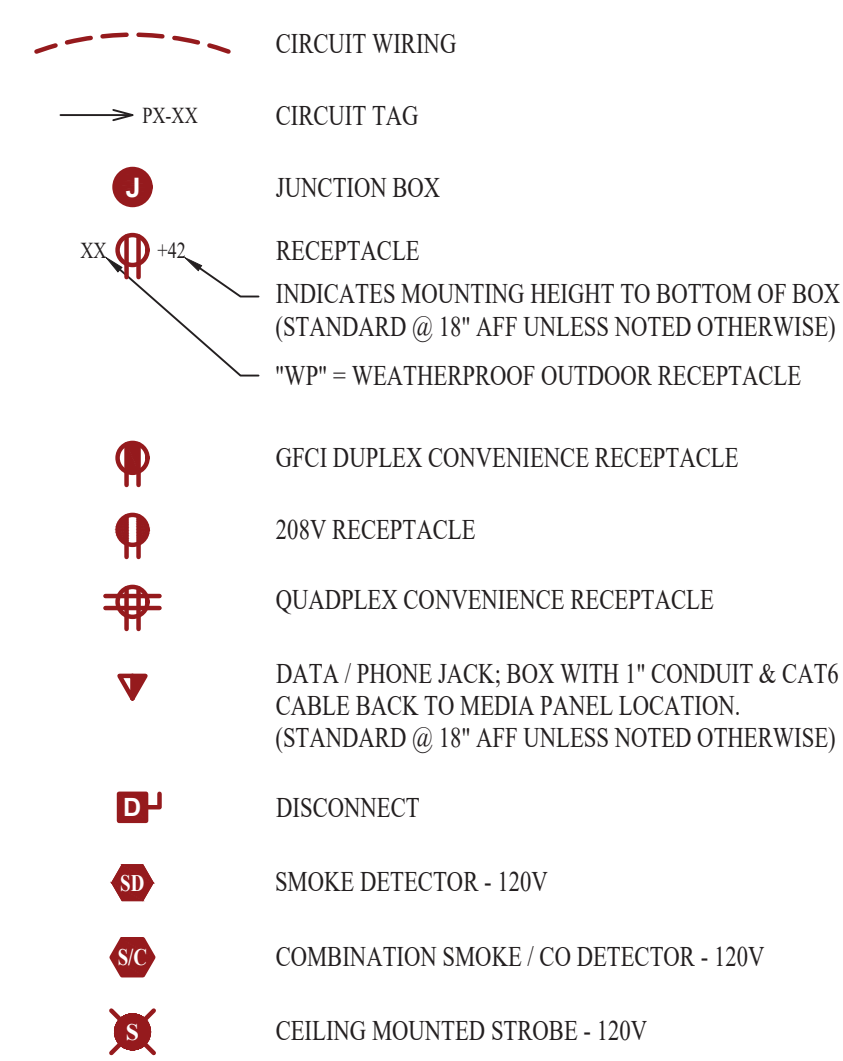
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

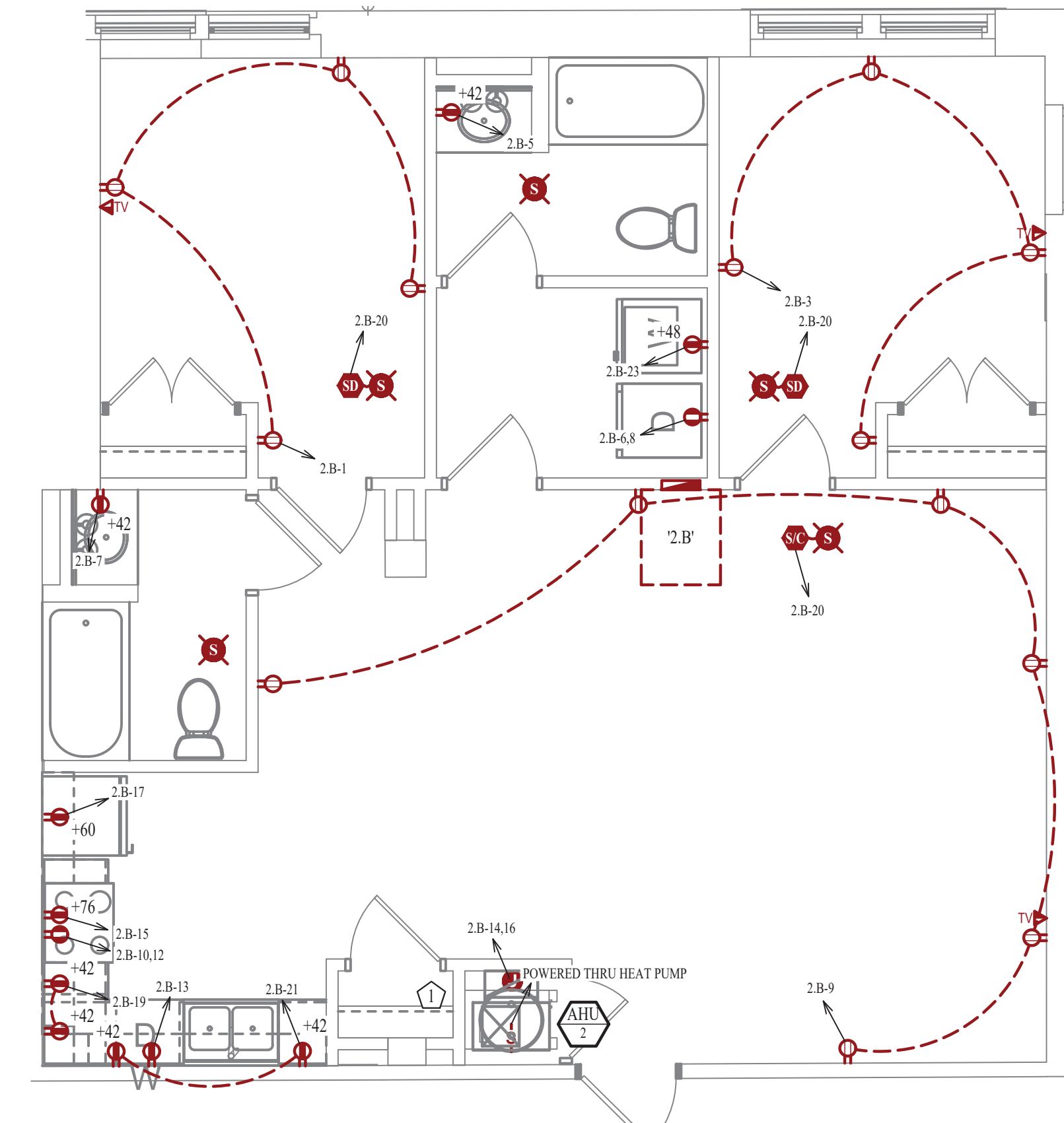


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

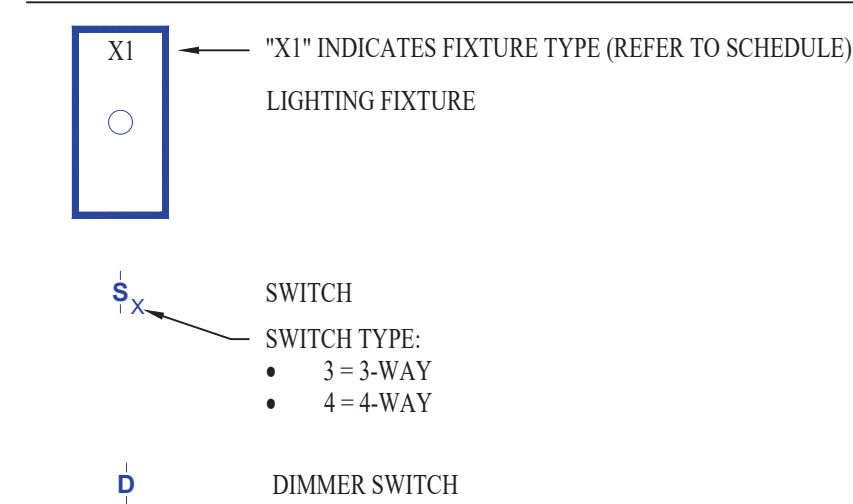
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

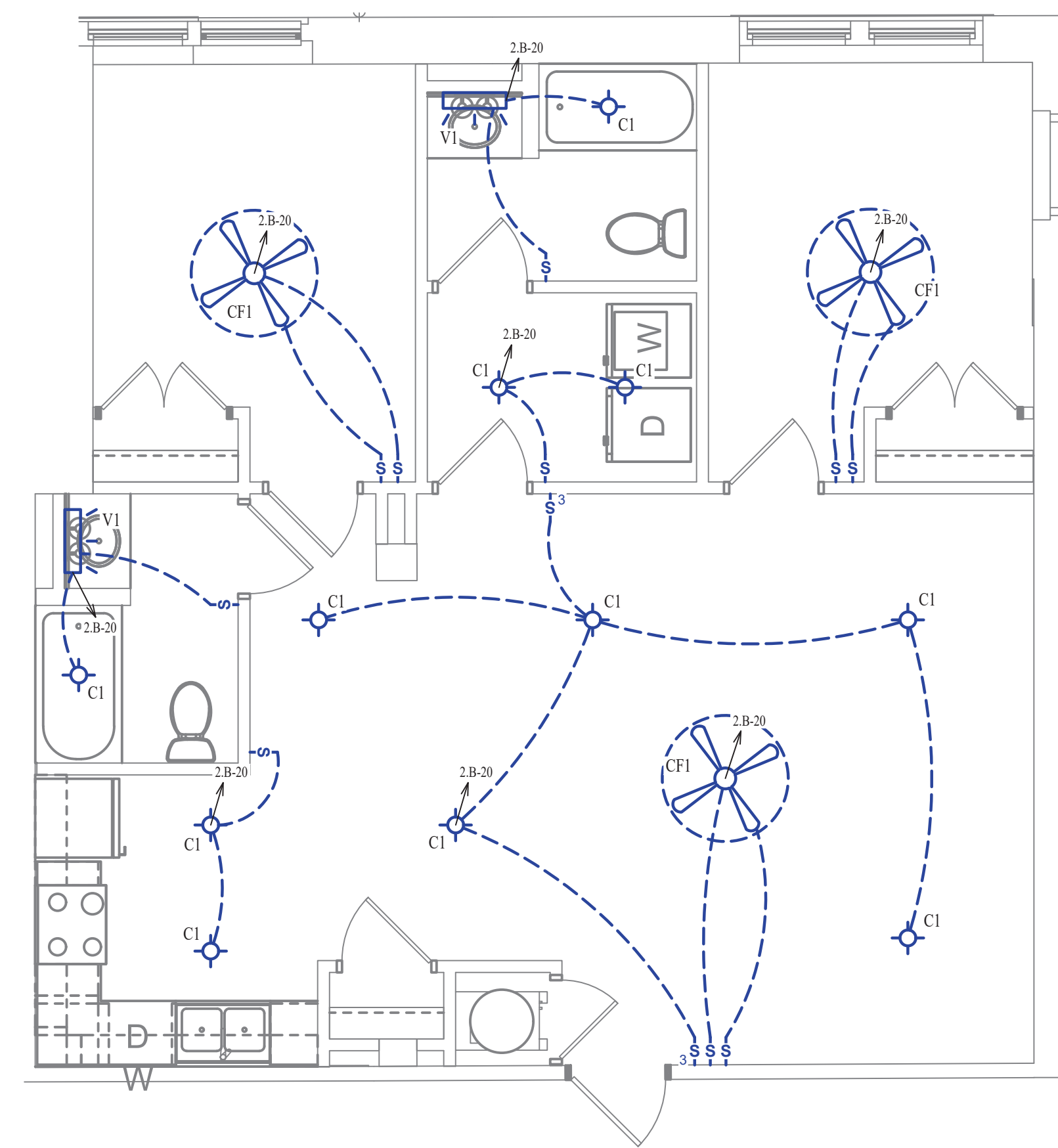
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

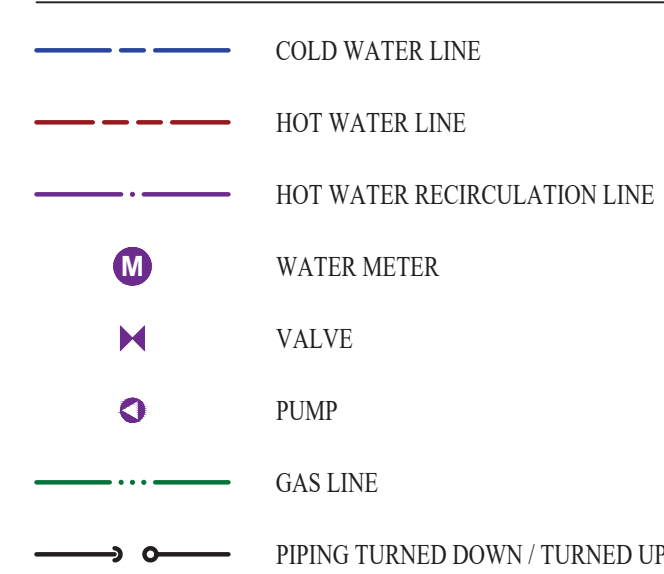
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

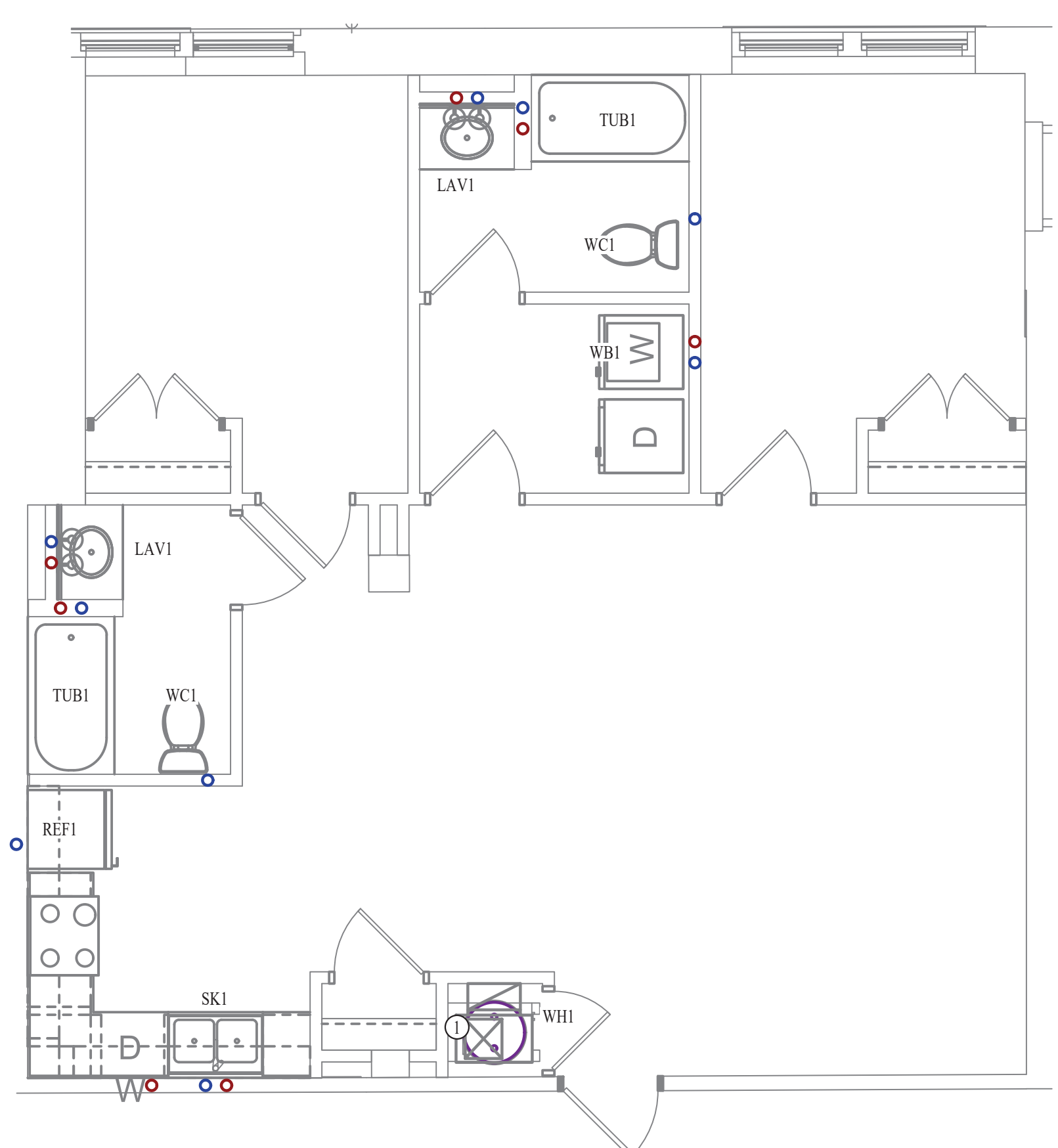


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 2 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

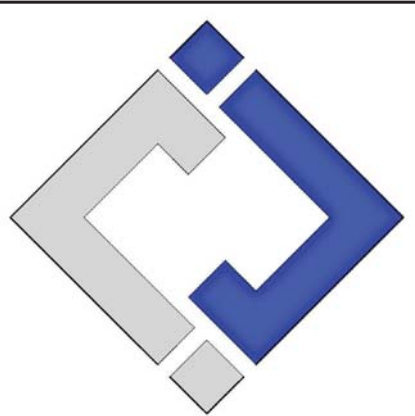


WATER PLAN

SCALE: 1/4" = 1'-0"



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SHEET TITLE

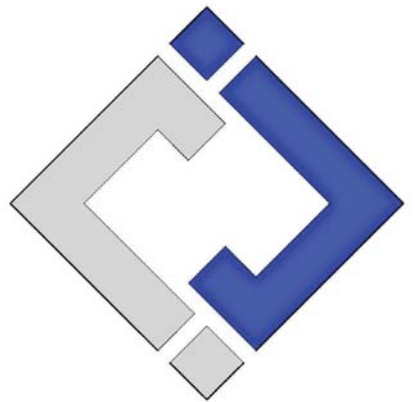
2-BEDROOM-B UNIT PLAN

SHEET NUMBER

UP-2.B



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ISSUE TITLE DATE
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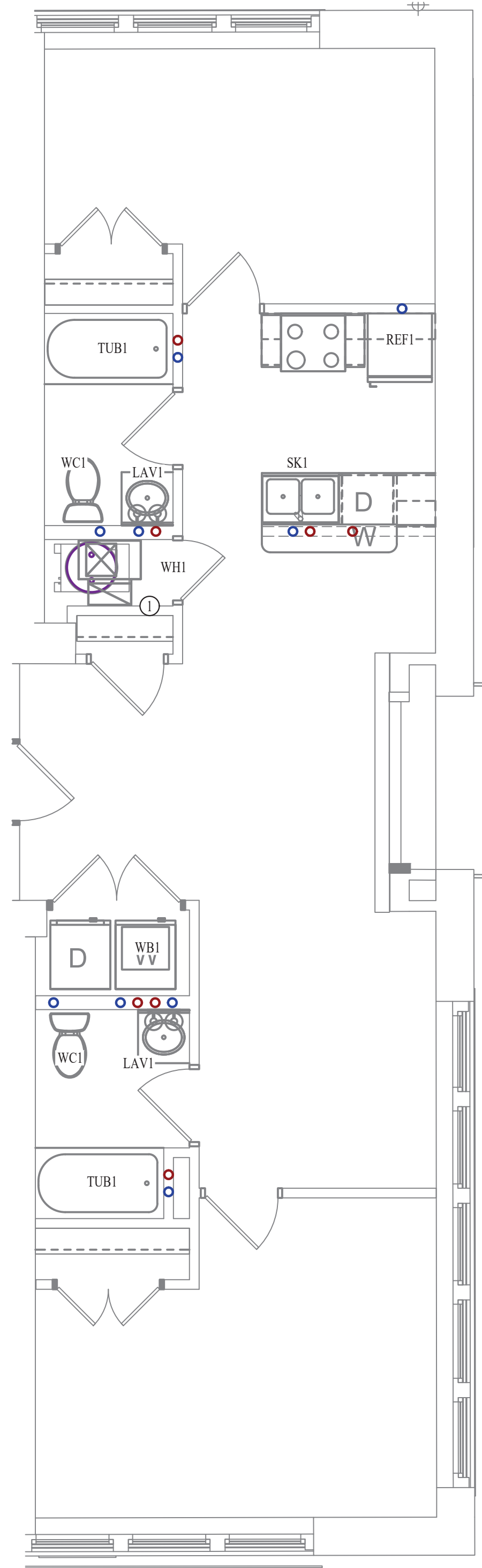
Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

SHEET TITLE

2-BEDROOM-C UNIT PLAN

SHEET NUMBER

UP-2.C



WATER PLAN

SCALE: 1/4" = 1'-0"

HVAC PLAN SYMBOL LEGEND

- EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- EQUIPMENT REFERENCE NUMBER
- DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- SUPPLY DUCTWORK
- RETURN DUCTWORK
- EXHAUST DUCTWORK
- FRESH AIR DUCTWORK
- SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- RETURN DIFFUSER
- BALANCE DAMPER
- MOTORIZED DAMPER
- CEILING RADIATION DAMPER
- THERMOSTAT

HVAC PLAN GENERAL NOTES:

1. SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
2. DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
3. ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
4. REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
5. OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

- ① SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- ② TRANSFER GRILLES ABOVE DOOR.

WATER PLAN SYMBOL LEGEND

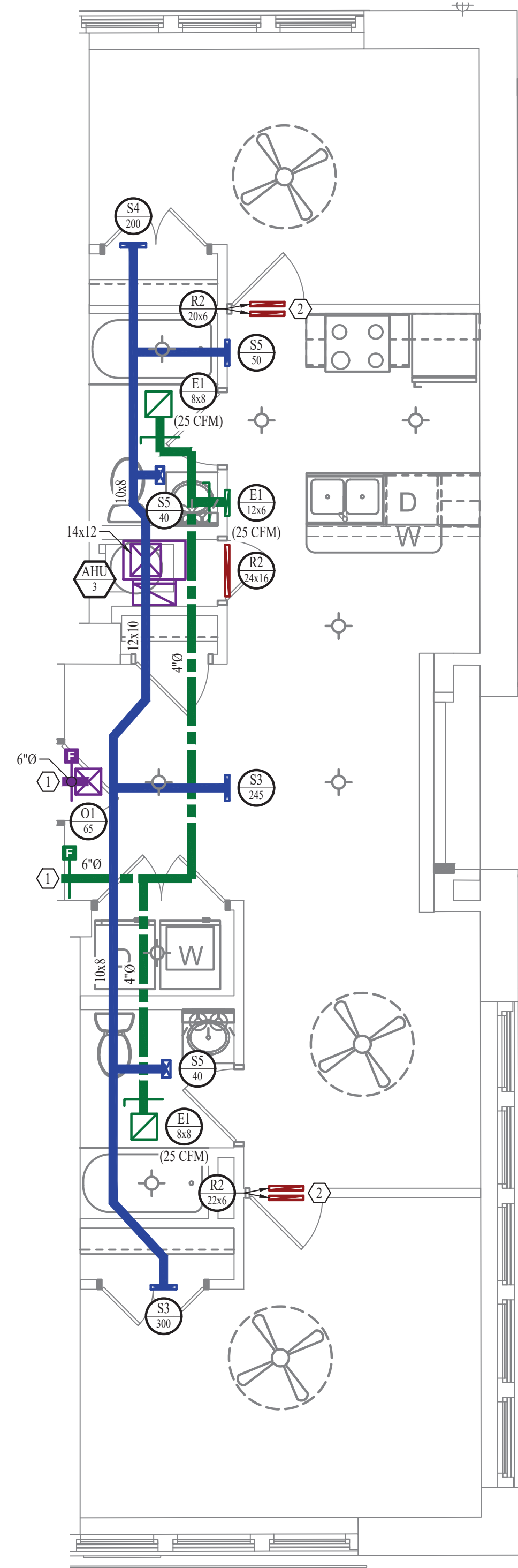
- COLD WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- WATER METER
- VALVE
- PUMP
- GAS LINE
- PIPING TURNED DOWN / TURNED UP

WATER PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- ① 2 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- CIRCUIT TAG
- JUNCTION BOX
- RECEPTACLE
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
"WP" = WEATHERPROOF OUTDOOR RECEPTACLE
- GFCI DUPLEX CONVENIENCE RECEPTACLE
- 208V RECEPTACLE
- QUADPLEX CONVENIENCE RECEPTACLE
- DATA / PHONE JACK; BOX WITH 1" CONDUIT & CAT6 CABLE BACK TO MEDIA PANEL LOCATION. (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- DISCONNECT
- SMOKE DETECTOR - 120V
- COMBINATION SMOKE / CO DETECTOR - 120V

LIGHTING PLAN SYMBOL LEGEND

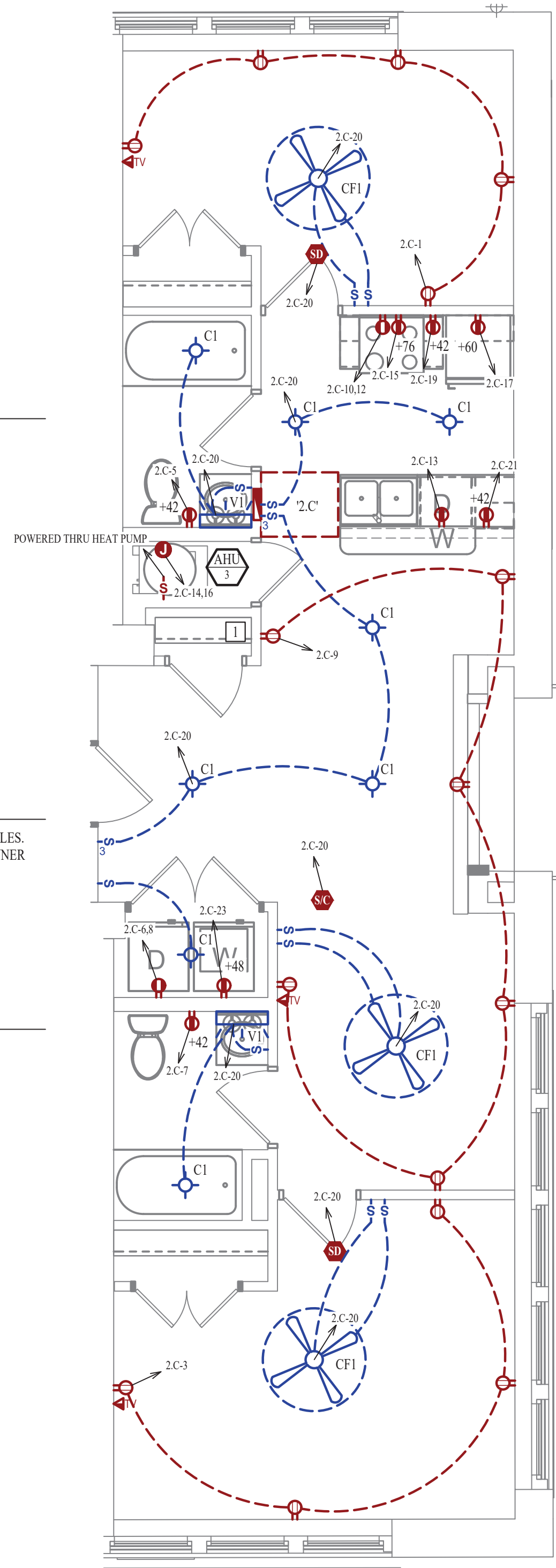
- "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
LIGHTING FIXTURE
- SWITCH
SWITCH TYPE:
• 3 = 3-WAY
• 4 = 4-WAY
- DIMMER SWITCH

ELECTRICAL PLAN GENERAL NOTES:

1. SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAIL, AND SCHEDULES.
2. VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

ELECTRICAL PLAN KEY NOTES:

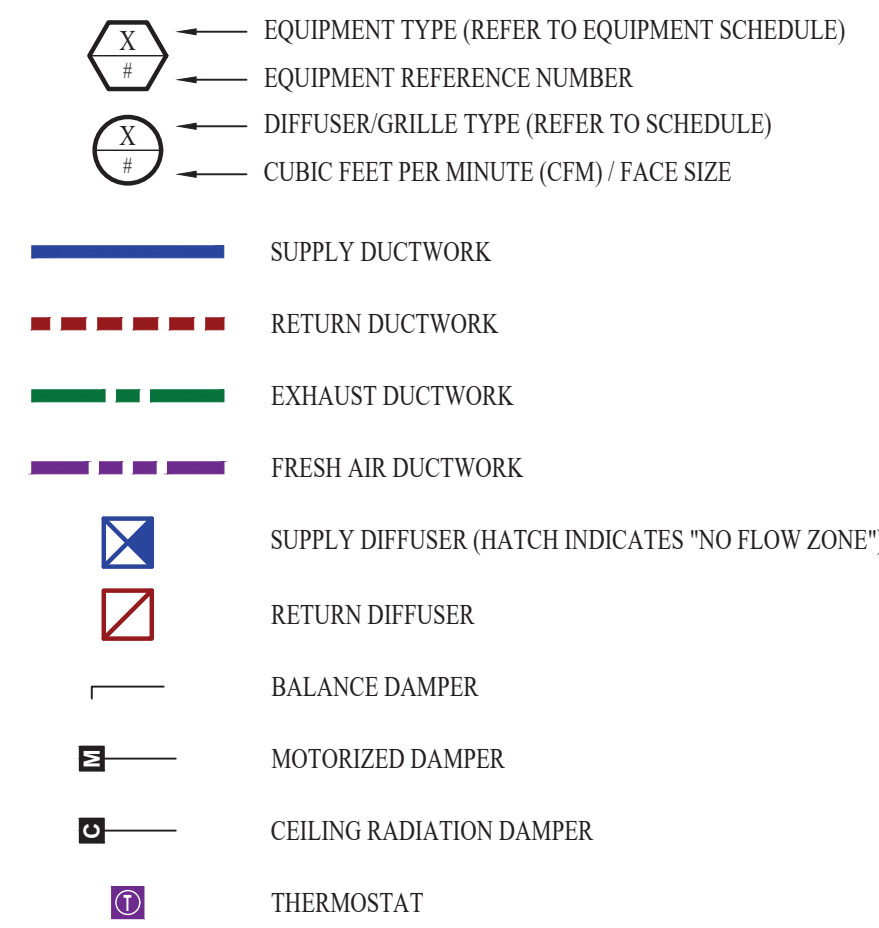
- ① MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP20SAV1.



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

HVAC PLAN SYMBOL LEGEND

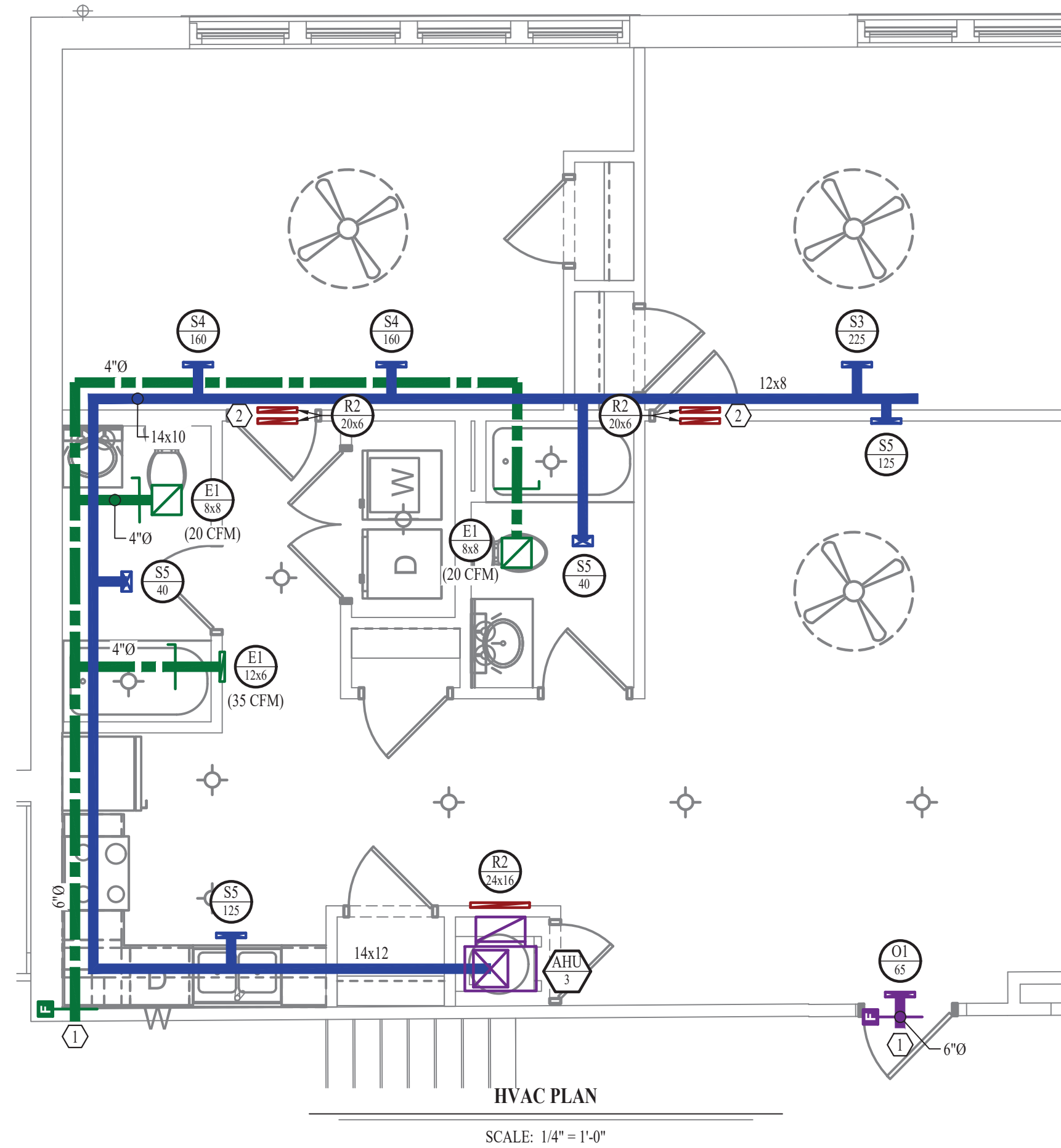


HVAC PLAN GENERAL NOTES:

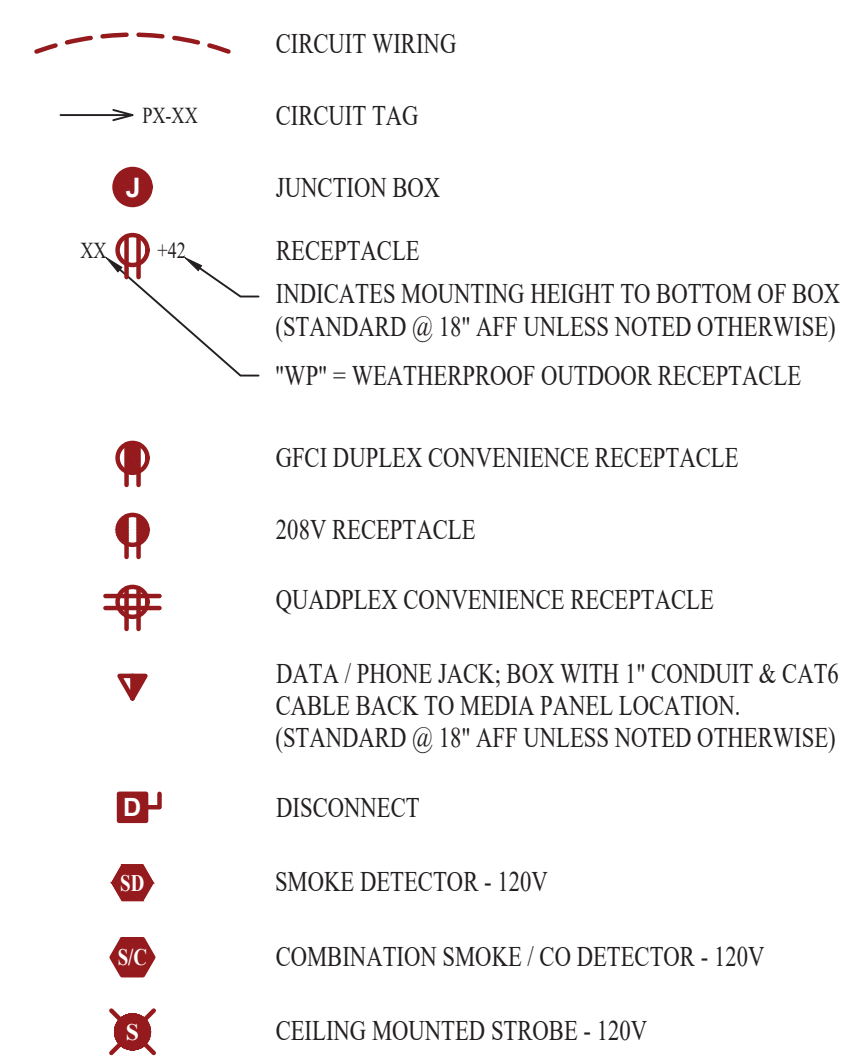
- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
- REFER TO SHEET MEP SERIES SHEETS FOR HEAT PUMP LOCATIONS. REFRIGERANT PIPING SHALL ROUTE IN SPACES ABOVE FINISHED CEILINGS AND WITHIN WALL CAVITIES TO REMAIN CONCEALED.
- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



POWER PLAN SYMBOL LEGEND

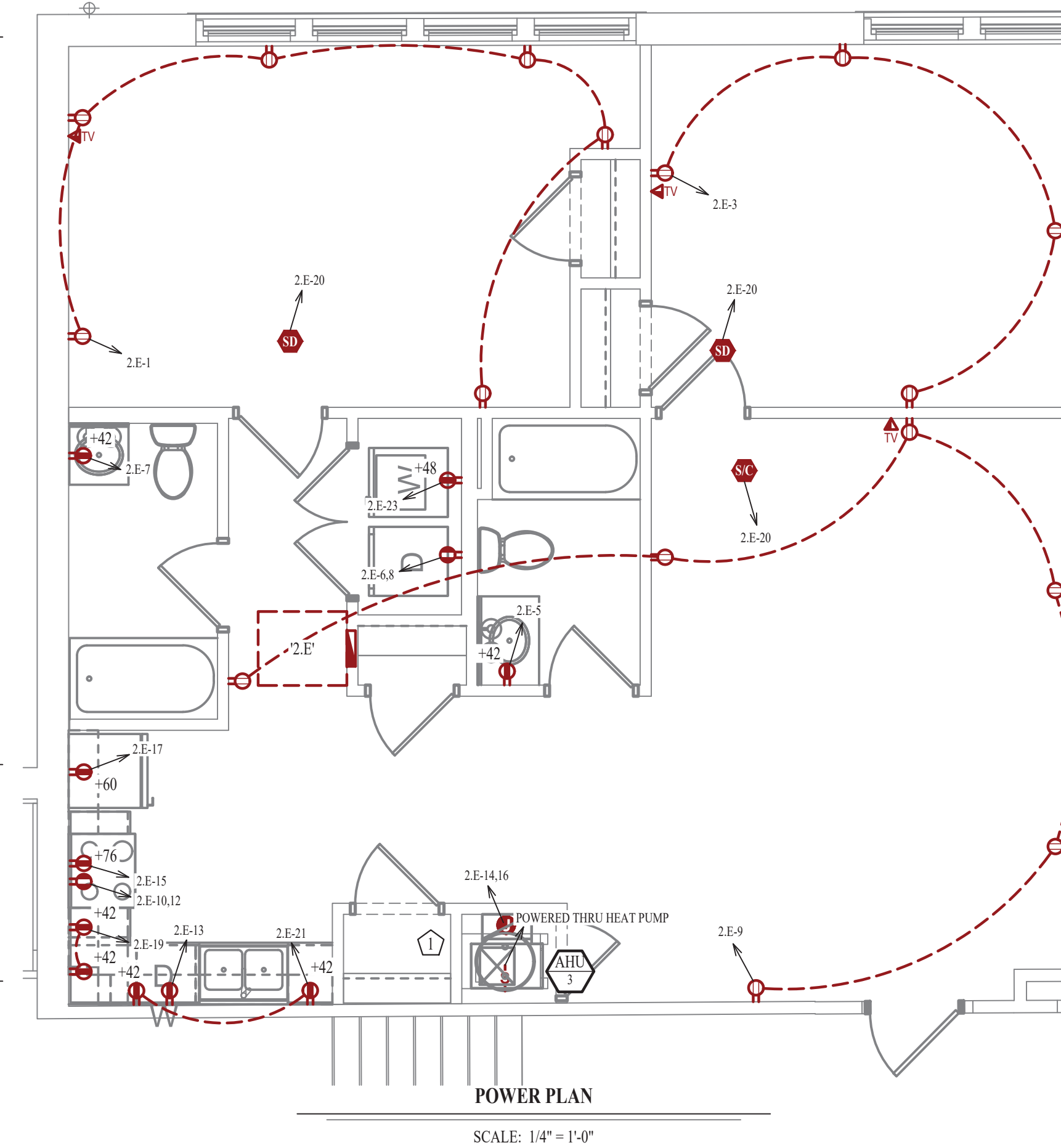


POWER PLAN GENERAL NOTES:

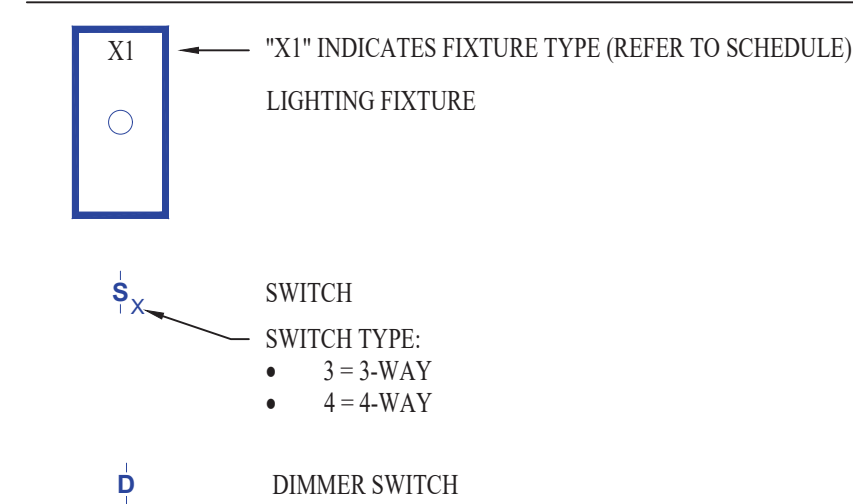
- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.

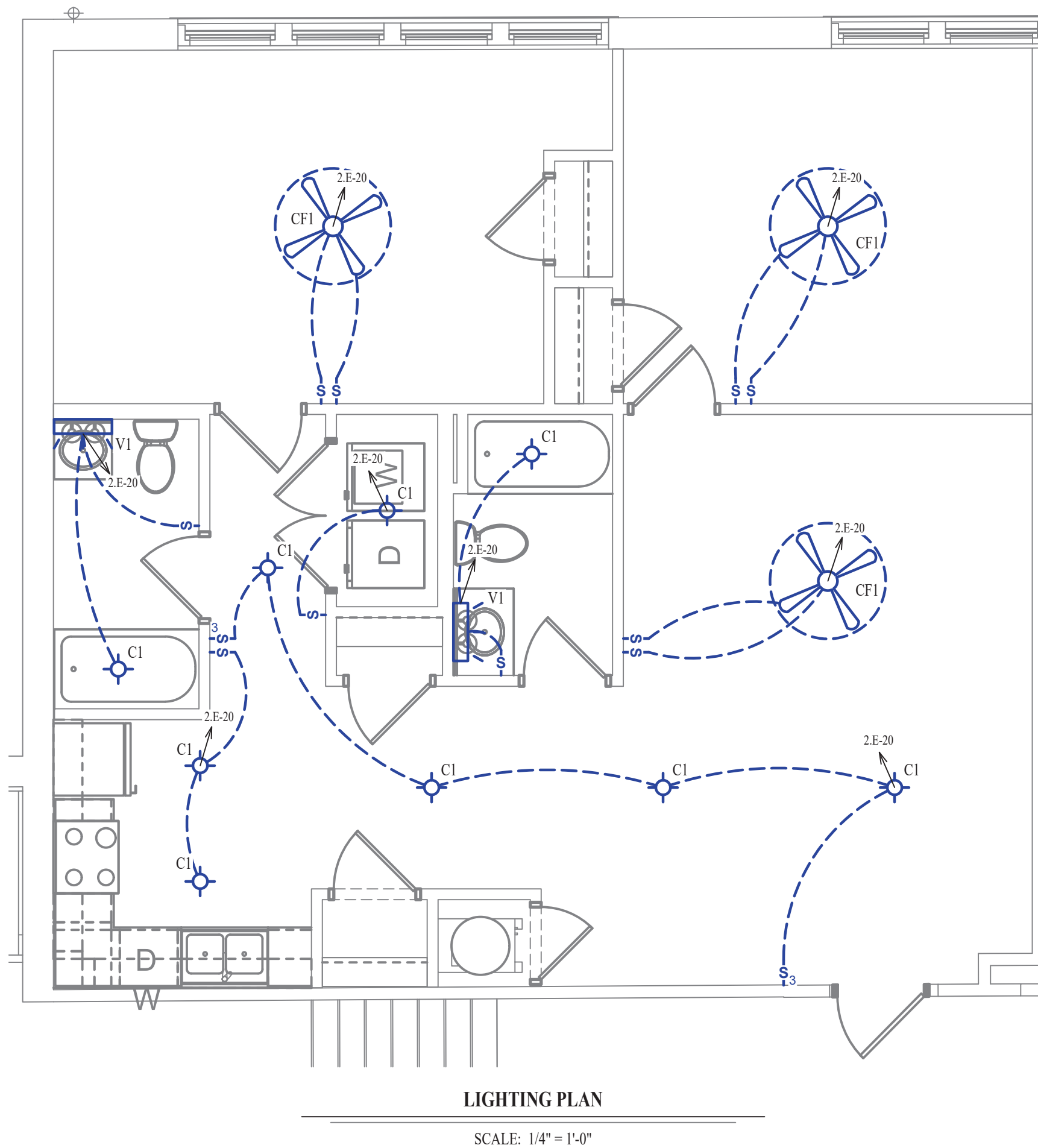


LIGHTING PLAN SYMBOL LEGEND

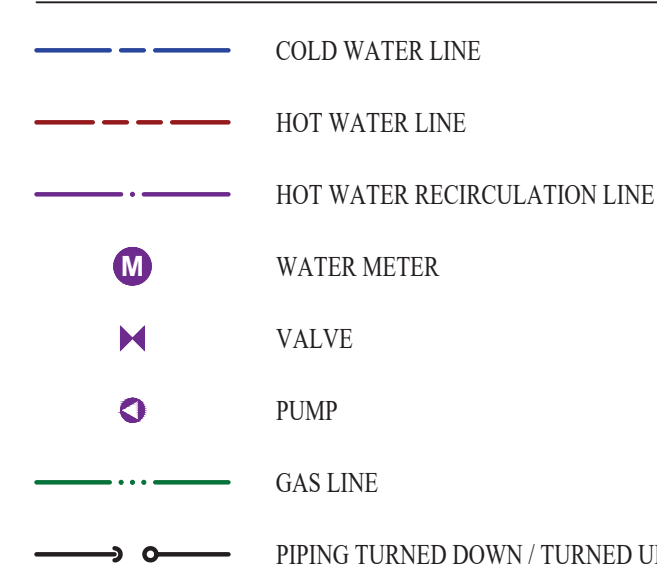


LIGHTING PLAN GENERAL NOTES:

- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



WATER PLAN SYMBOL LEGEND

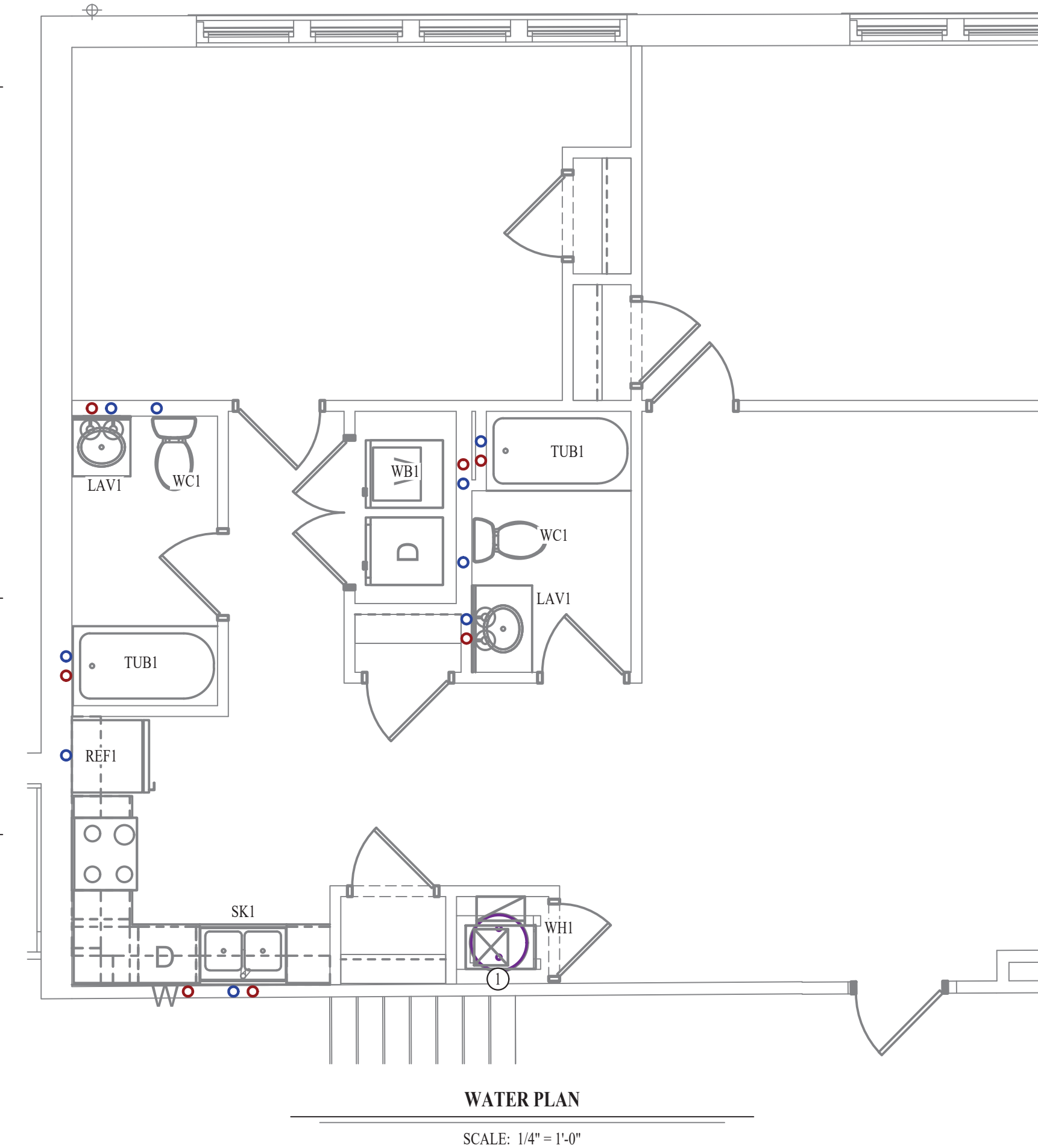


WATER PLAN GENERAL NOTES:

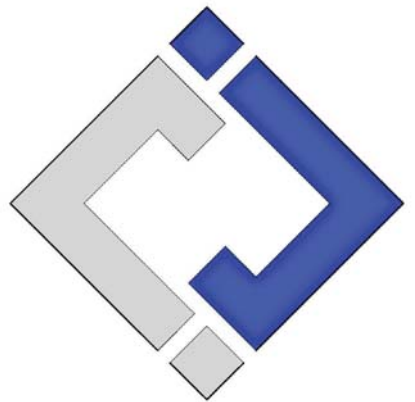
- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 2 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



James Watson, P.E. October 8th, 2021
PE-32421
OK Certificate of Authority # 8654



J-SQUARED ENGINEERING

2401 Bernadette Drive, Suite 201
Columbia, Missouri 65203
573 - 234 - 4492 phone
www.j-squareeng.com

J2 PROJECT No:	J20395
J2 DESIGN:	KEL

ISSUE TITLE	DATE
PERMIT SET	10-08-2021

Mechanical - Electrical - Plumbing Design Drawings for
Marcus Garvey Harmony Apartments
 1537 NE 24th Street
 Oklahoma City, OK, 73111

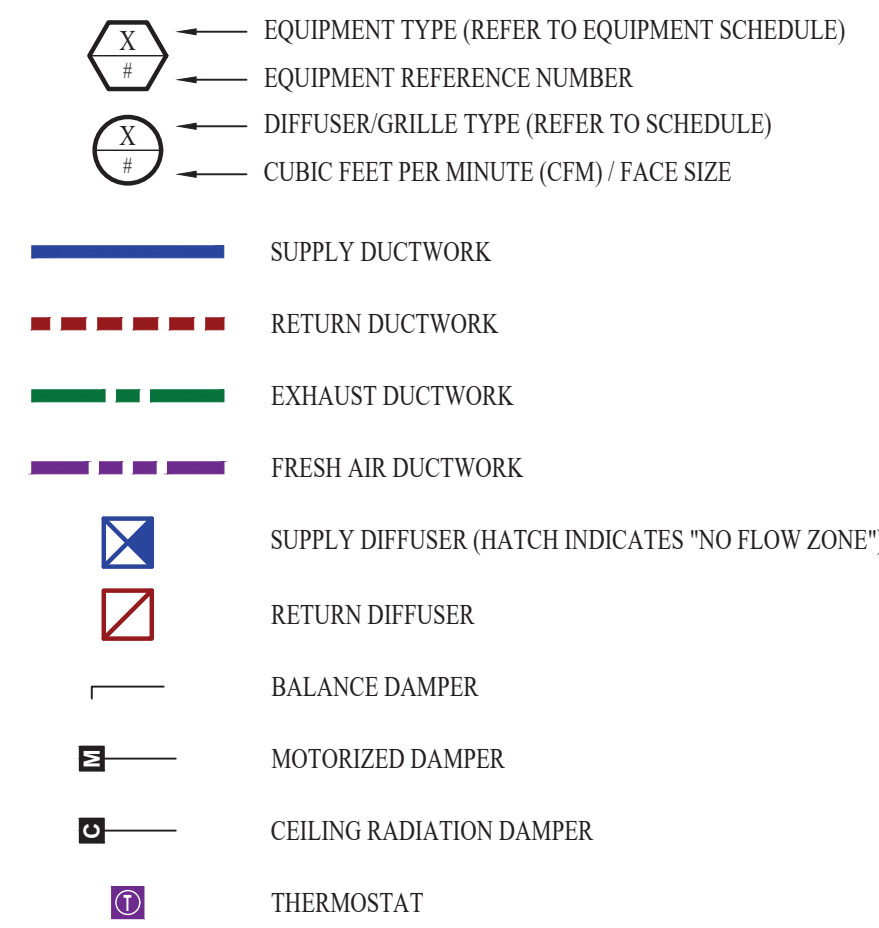
SHEET TITLE

2-BEDROOM-E UNIT PLAN

SHEET NUMBER

UP-2.E

HVAC PLAN SYMBOL LEGEND

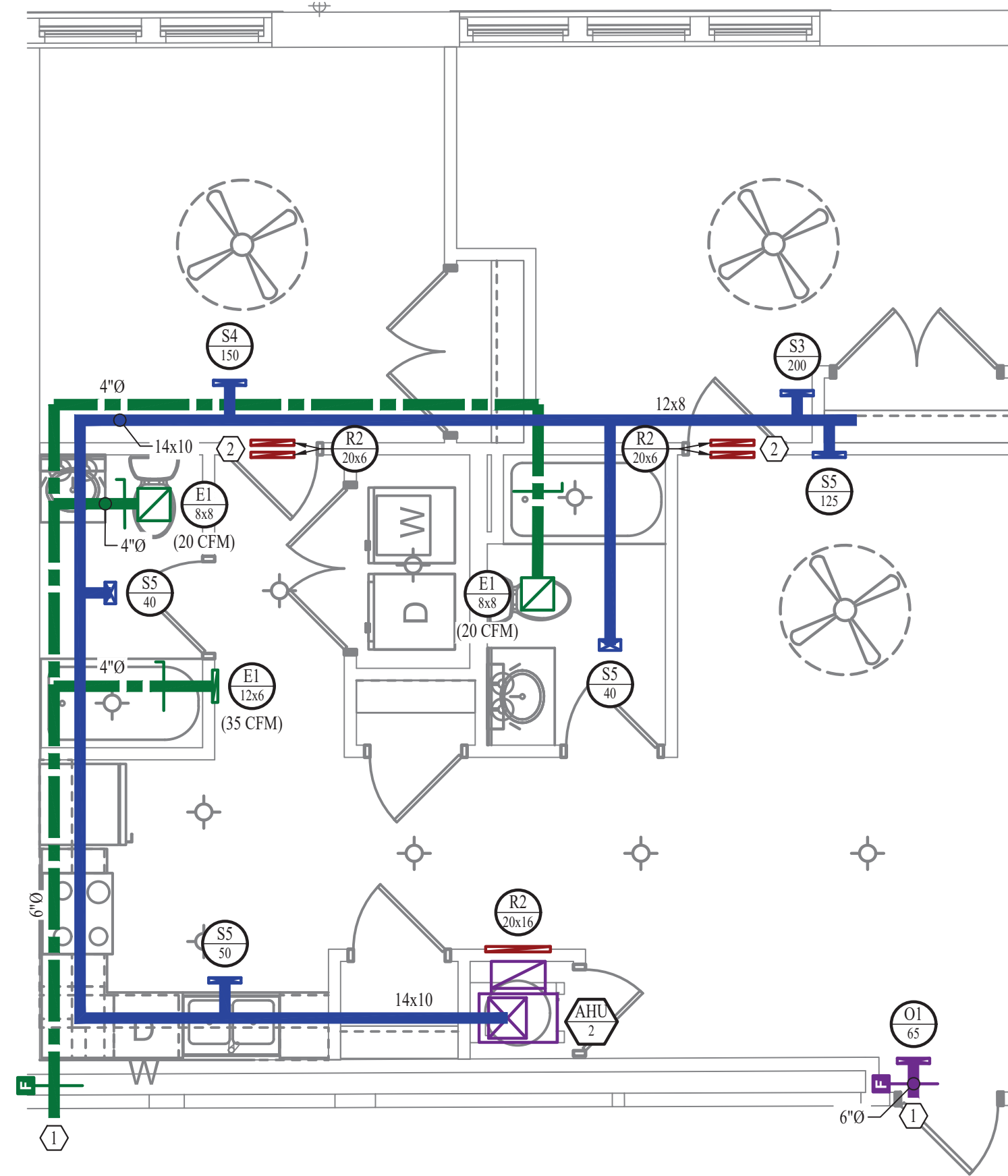


HVAC PLAN GENERAL NOTES:

- SEE SHEET M501 & M601 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- DUCTWORK TO BE RUN IN SOFFIT. DUCTWORK SHALL NOT PENETRATE FIRE BARRIER BETWEEN FLOORS UNLESS OTHERWISE NOTED.
- ROUTE EXHAUST AND FRESH AIR DUCT ENTERING AND EXITING APARTMENT TIGHT TO BOTTOM OF BEAM. DUCT SHALL HAVE A 1-HOUR RATED FIRE DAMPER.
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- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

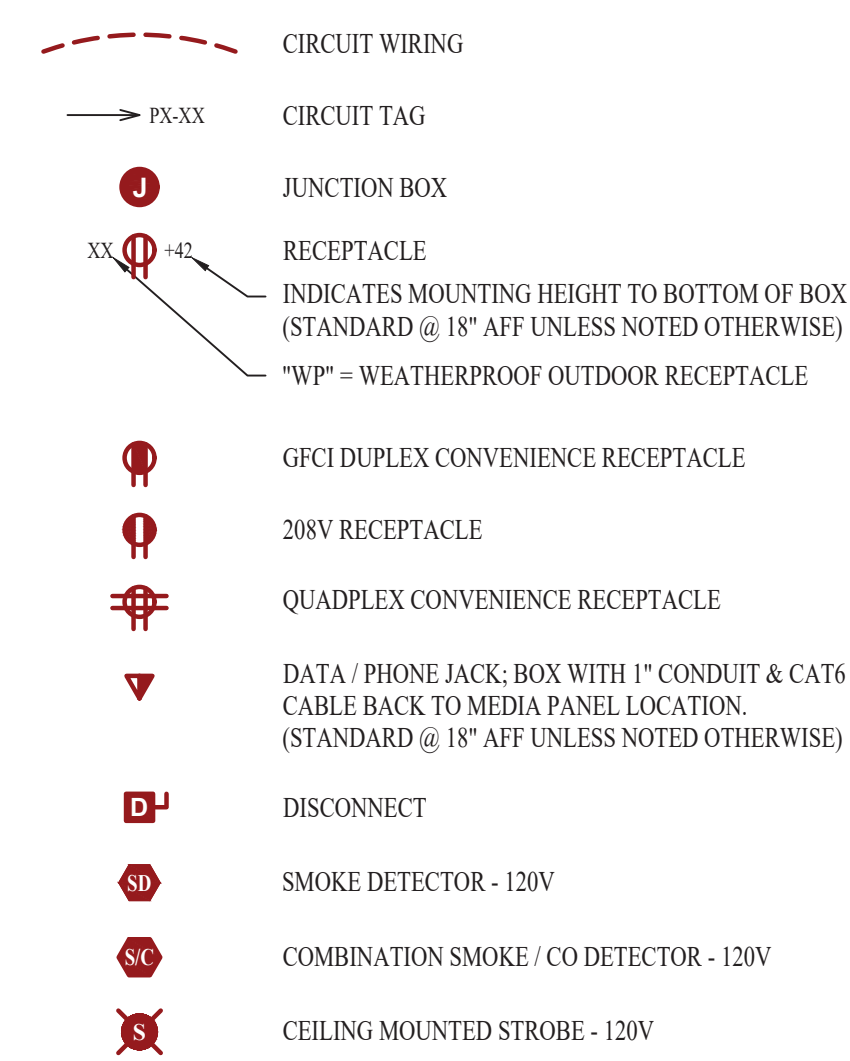
- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.



HVAC PLAN

SCALE: 1/4" = 1'-0"

POWER PLAN SYMBOL LEGEND

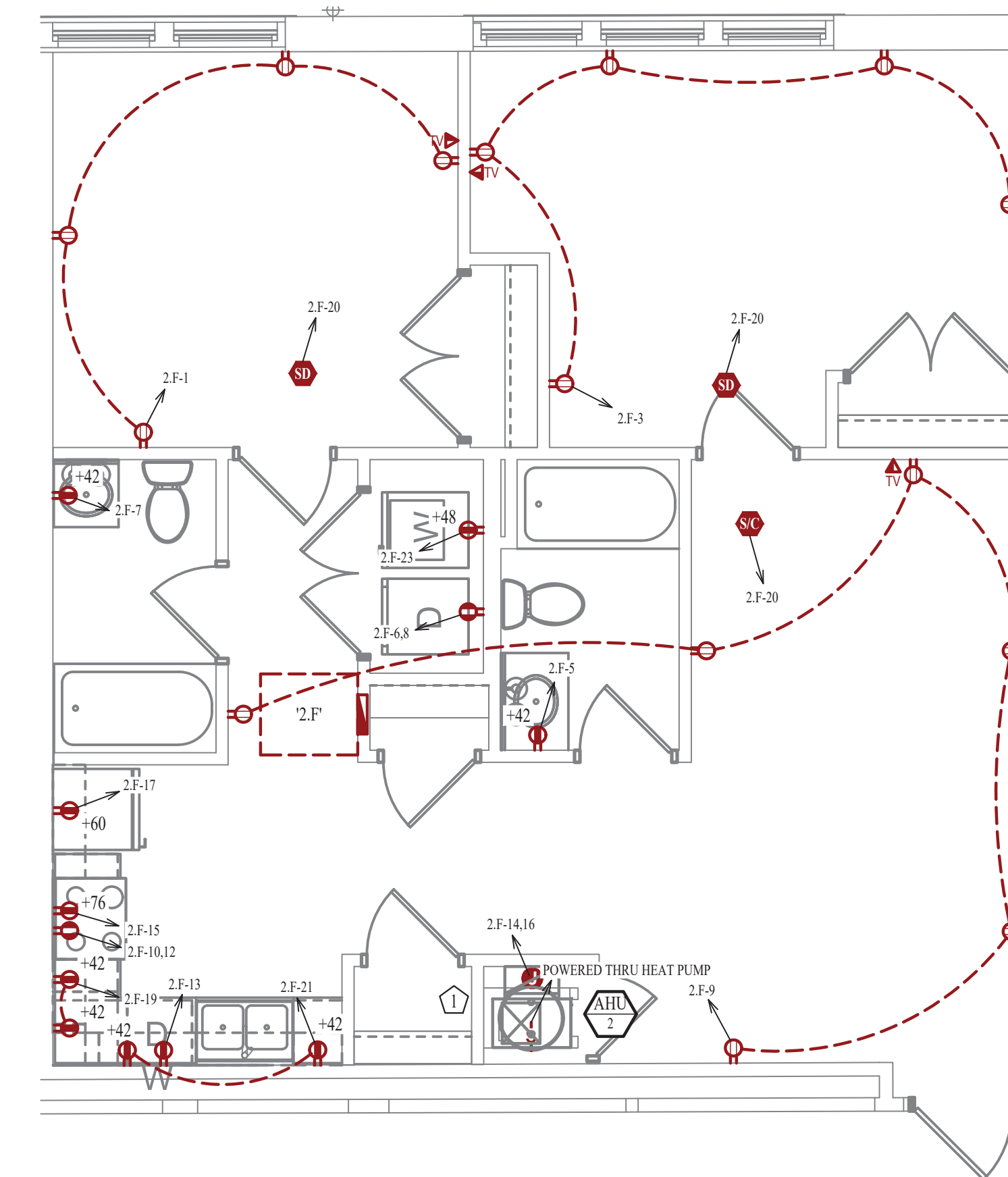


POWER PLAN GENERAL NOTES:

- SEE SHEET E501, E601, & E602 FOR ADDITIONAL POWER NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

POWER PLAN KEY NOTES:

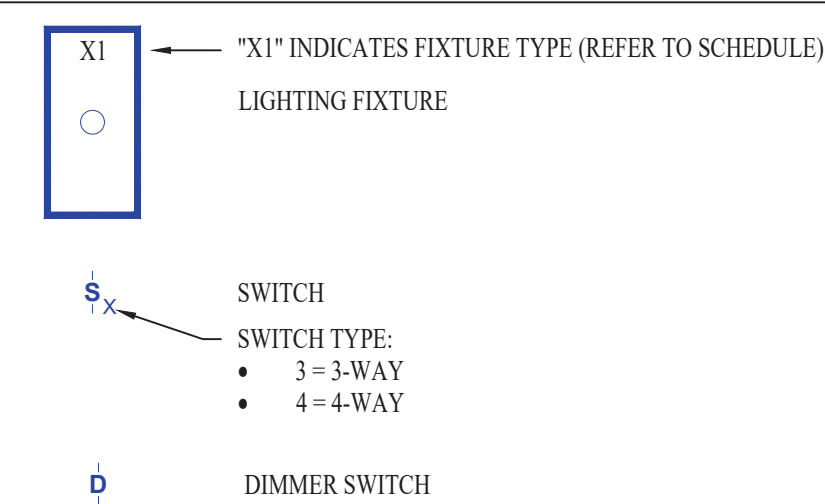
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.



POWER PLAN

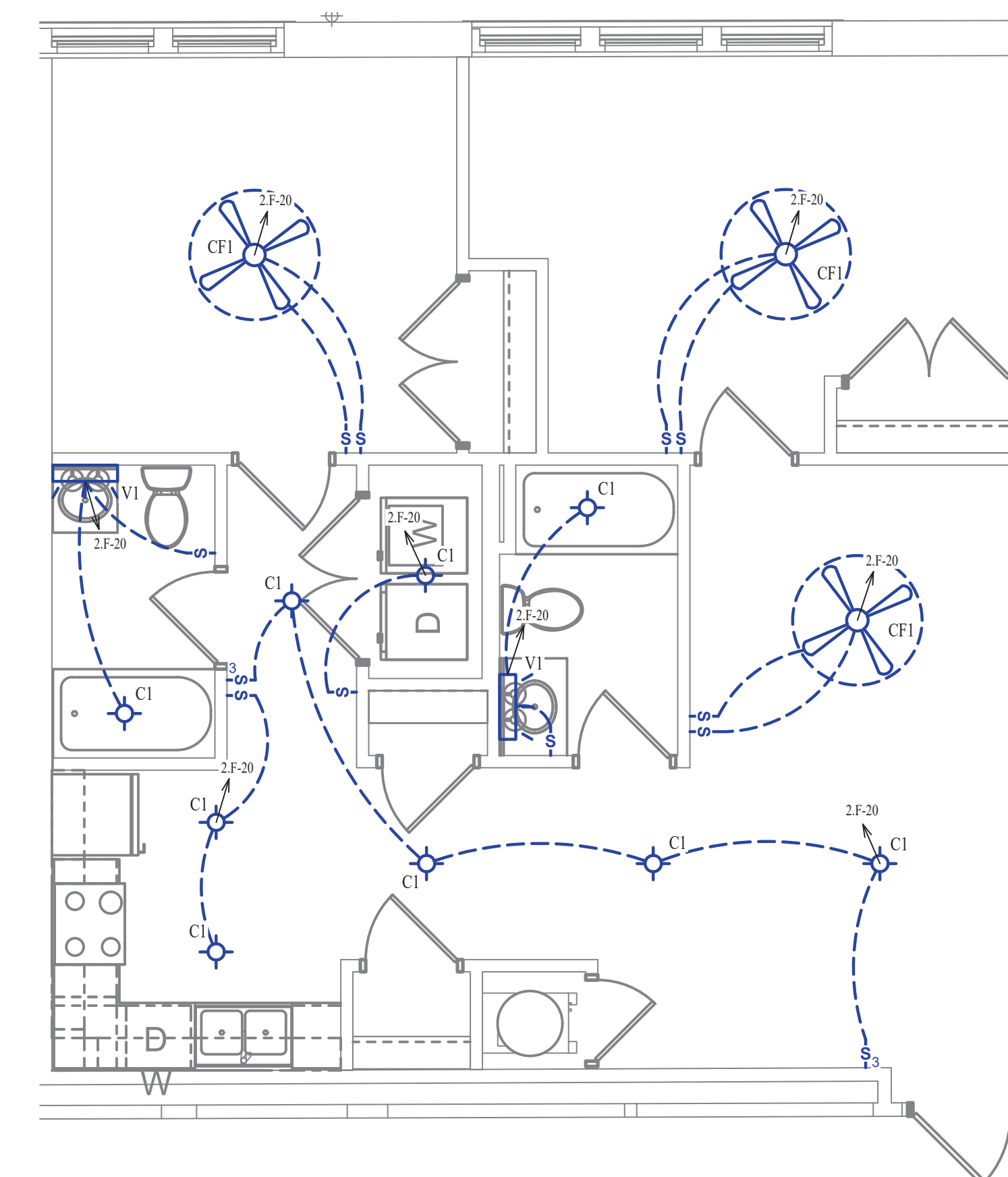
SCALE: 1/4" = 1'-0"

LIGHTING PLAN SYMBOL LEGEND



LIGHTING PLAN GENERAL NOTES:

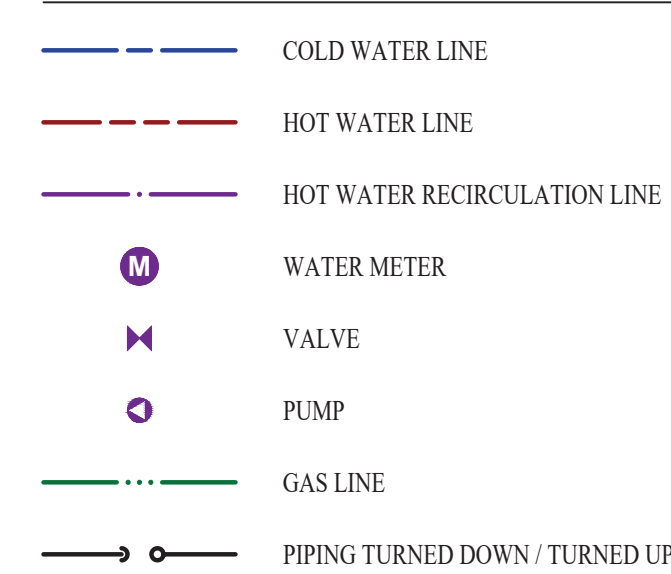
- SEE SHEET E501 FOR ADDITIONAL LIGHTING NOTES, DETAIL, AND SCHEDULES.



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

WATER PLAN SYMBOL LEGEND

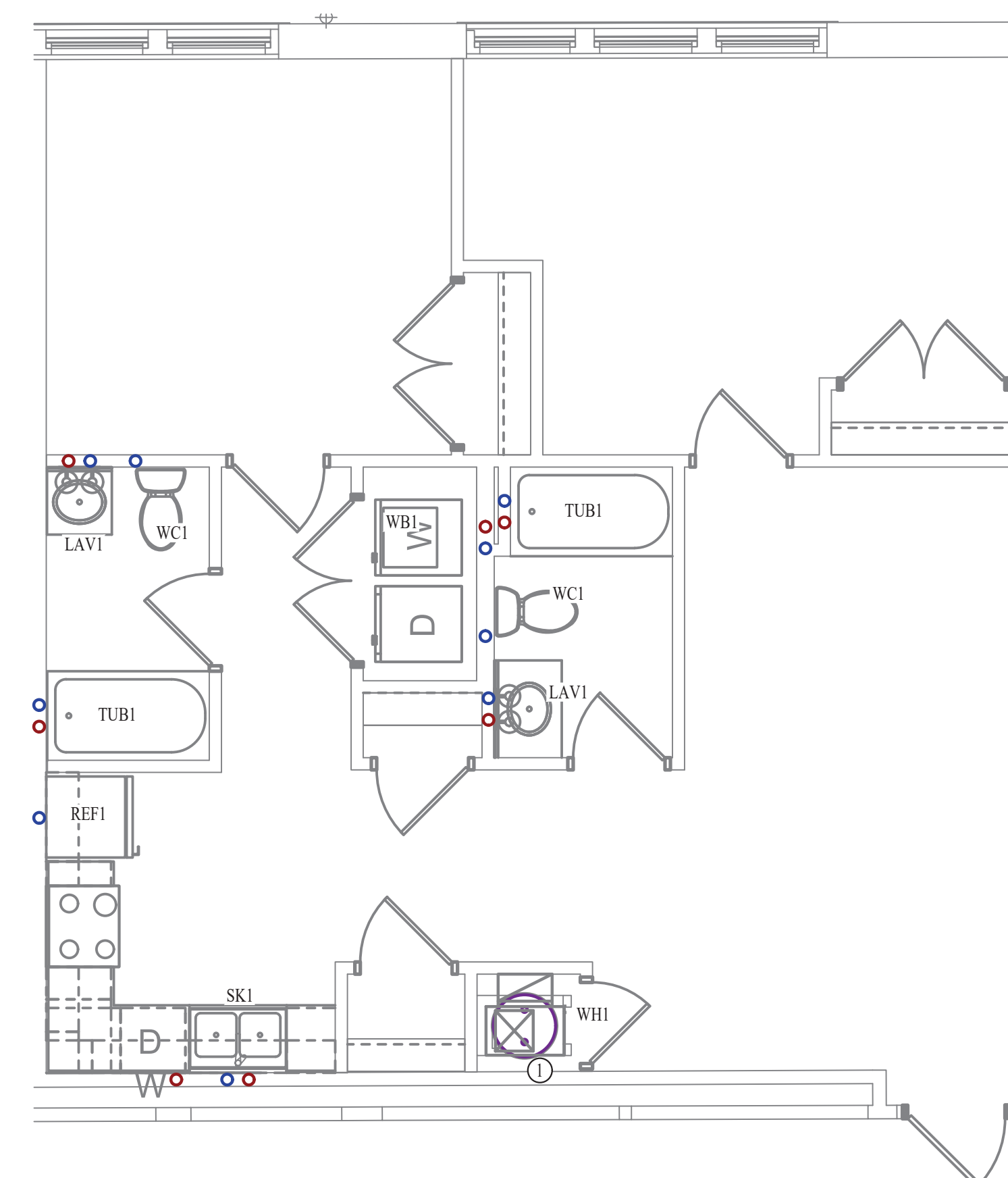


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

WATER PLAN KEY NOTES:

- 2 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.

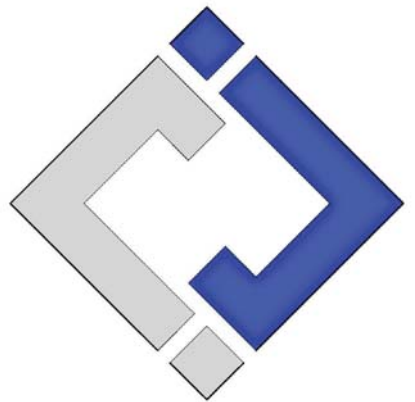


WATER PLAN

SCALE: 1/4" = 1'-0"



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J2 PROJECT No: J20395
 J2 DESIGN: KEL

ISSUE TITLE DATE
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Mechanical - Electrical - Plumbing Design Drawings for
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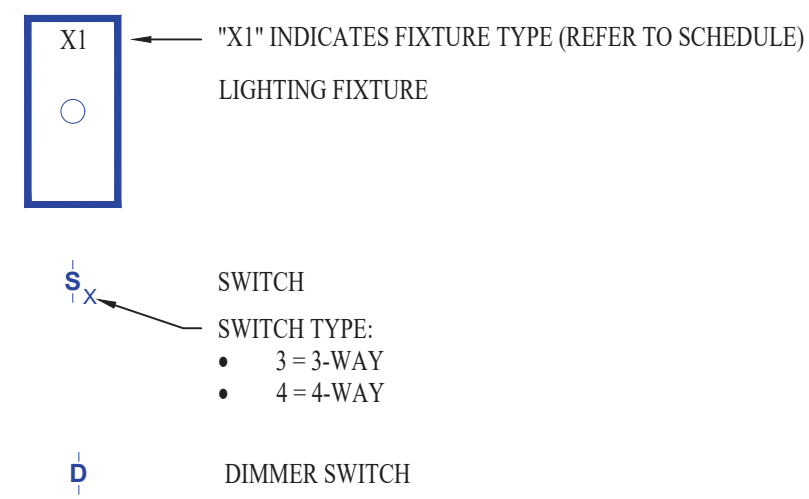
SHEET TITLE

2-BEDROOM-F UNIT PLAN

SHEET NUMBER

UP-2.F

LIGHTING PLAN SYMBOL LEGEND



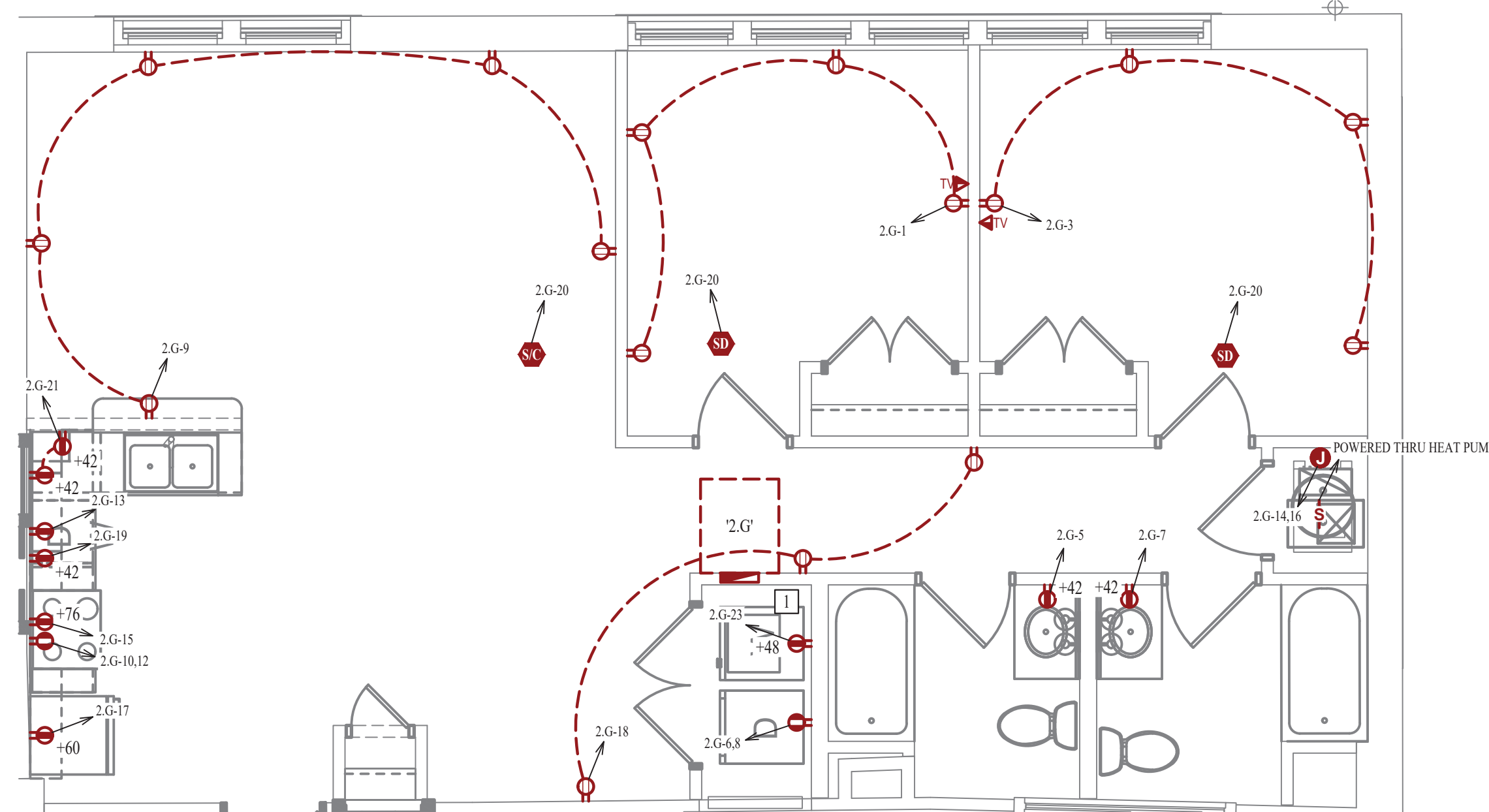
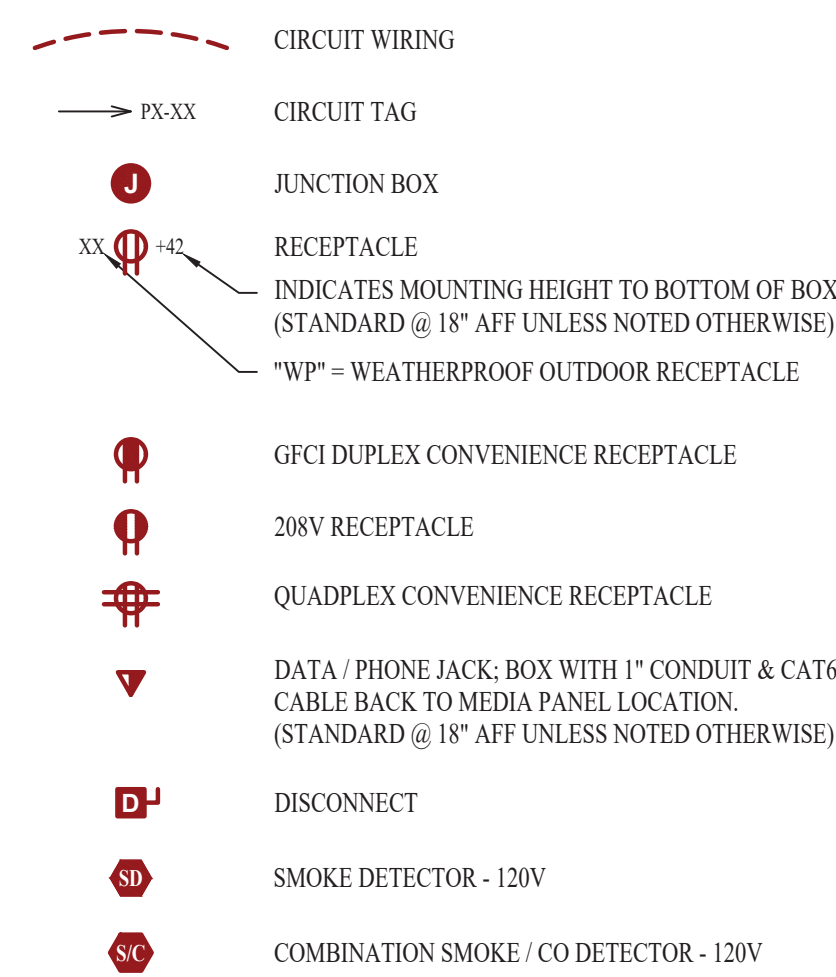
ELECTRICAL PLAN GENERAL NOTES:

- SEE SHEET E501 FOR ADDITIONAL ELECTRICAL NOTES, DETAIL, AND SCHEDULES.
- VERIFY EXACT RECEPTACLE MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO INSTALL.

ELECTRICAL PLAN KEY NOTES:

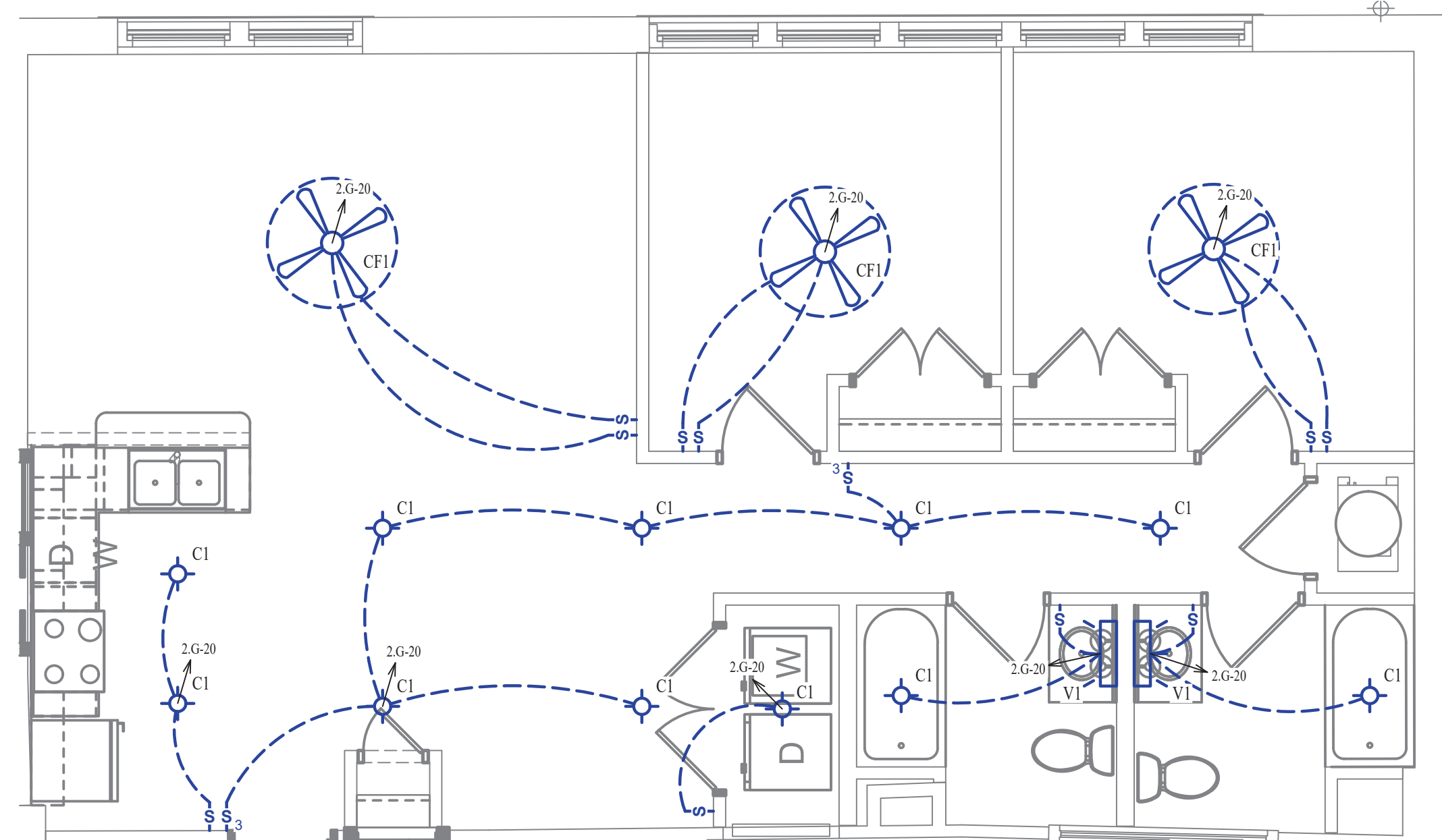
- MEDIA PANEL LOCATION. EQUAL TO LEGRAND ENP205AV1.

POWER PLAN SYMBOL LEGEND



POWER PLAN

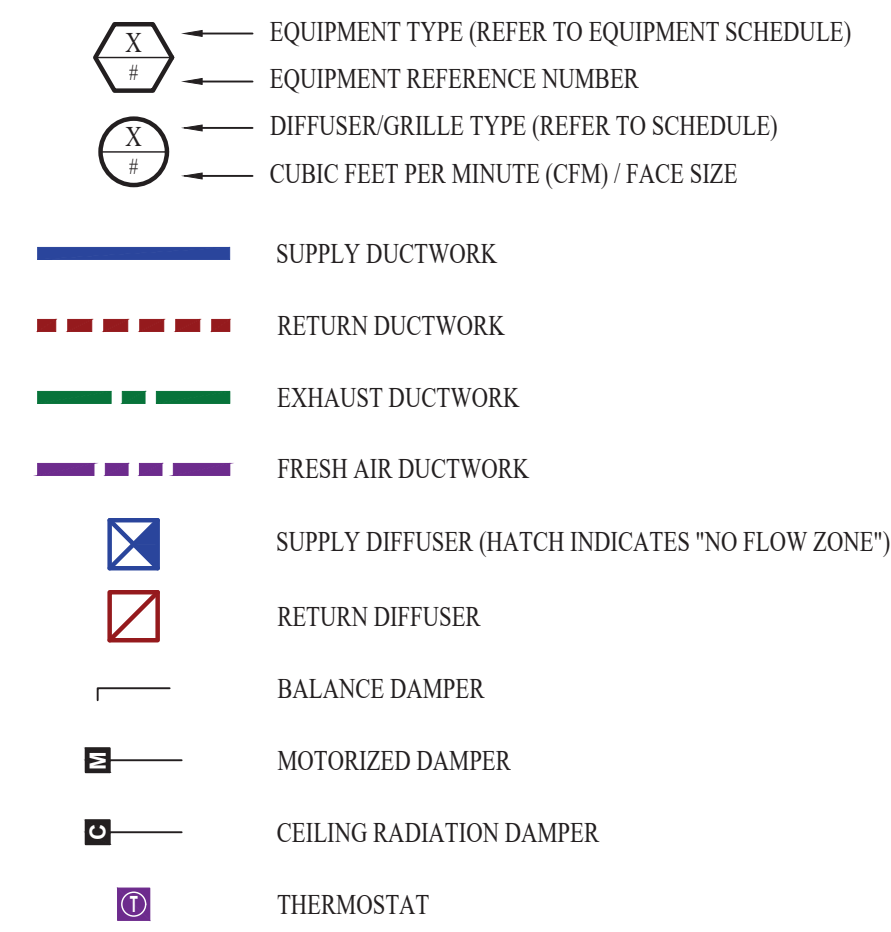
SCALE: 1/4" = 1'-0"



LIGHTING PLAN

SCALE: 1/4" = 1'-0"

HVAC PLAN SYMBOL LEGEND



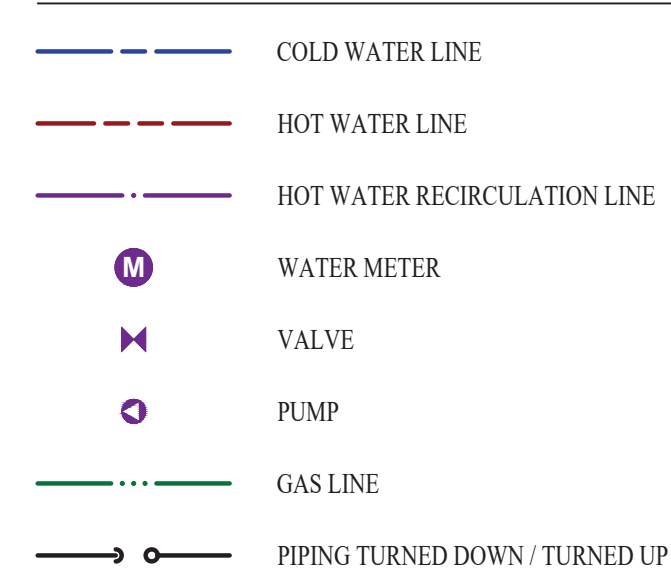
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- OWNER TO USE DUCTLESS CLOTHES DRYERS IN APARTMENT SPACES.

HVAC PLAN KEY NOTES:

- SEE OVERALL BUILDING HVAC PLAN FOR DUCT CONTINUATION.
- TRANSFER GRILLES ABOVE DOOR.

WATER PLAN SYMBOL LEGEND

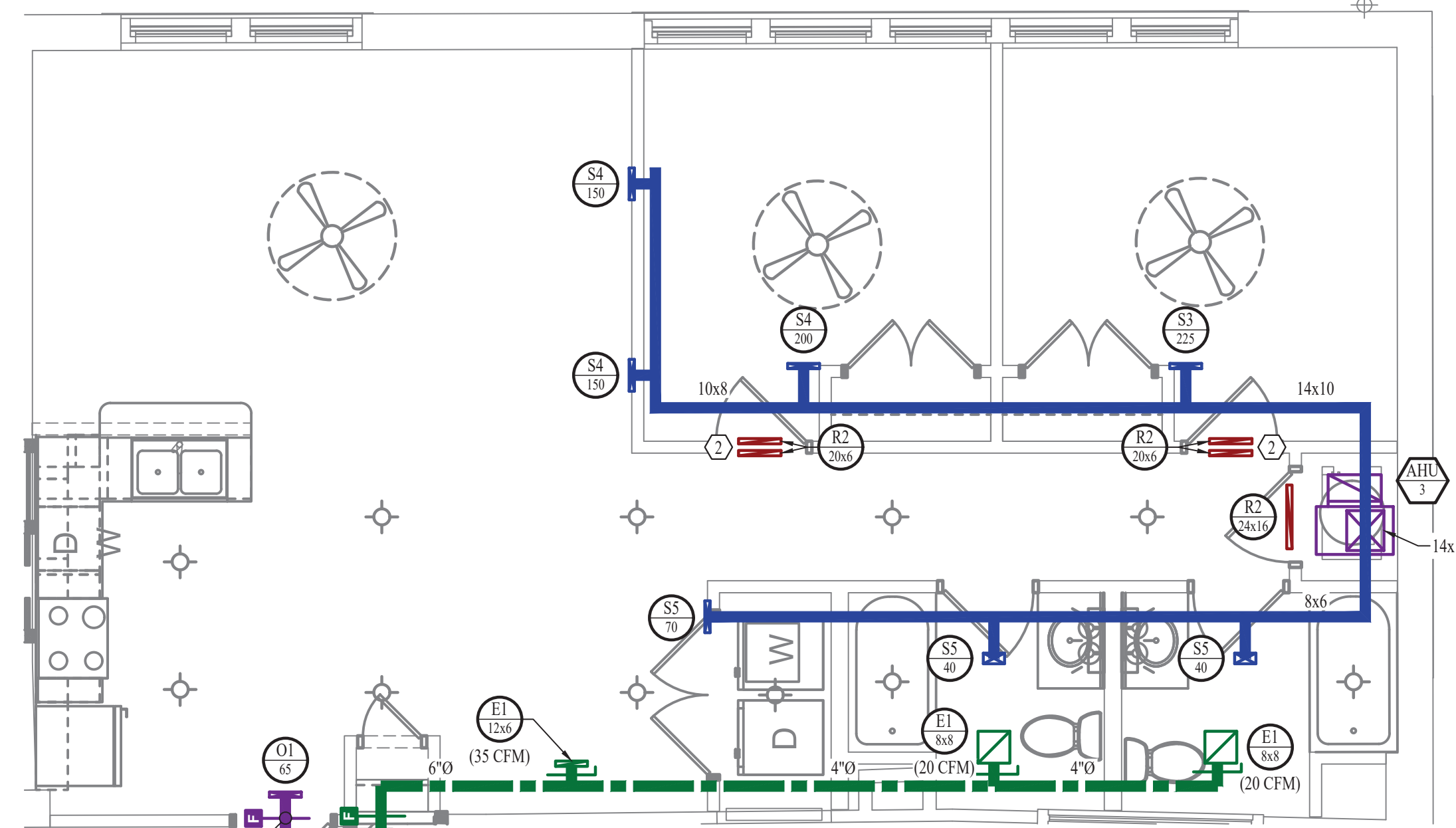


WATER PLAN GENERAL NOTES:

- SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

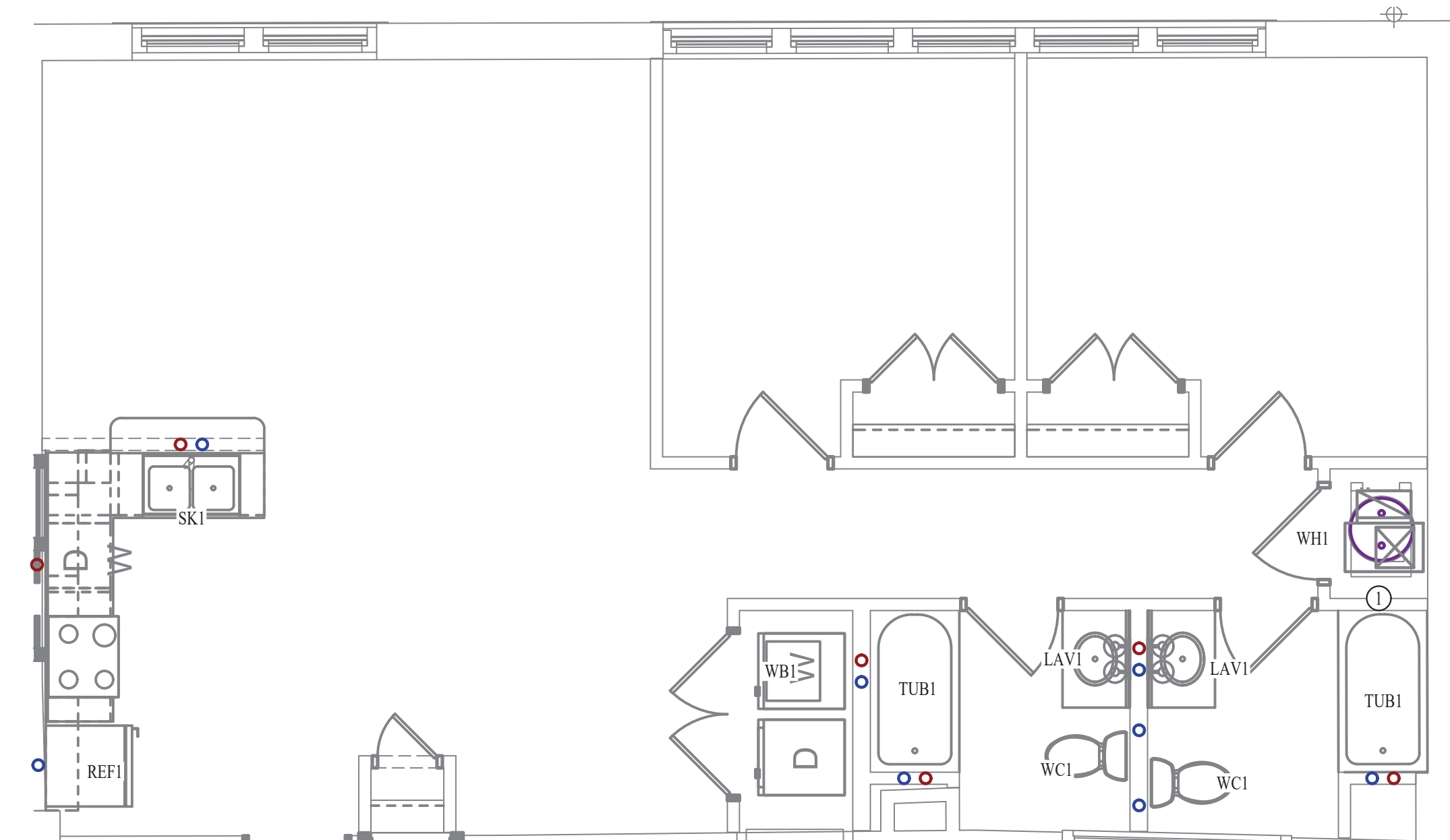
WATER PLAN KEY NOTES:

- 2 BEDROOM UPONOR PEX MANIFOLD. SEE DETAIL FOR CONNECTION SCHEDULE.



HVAC PLAN

SCALE: 1/4" = 1'-0"

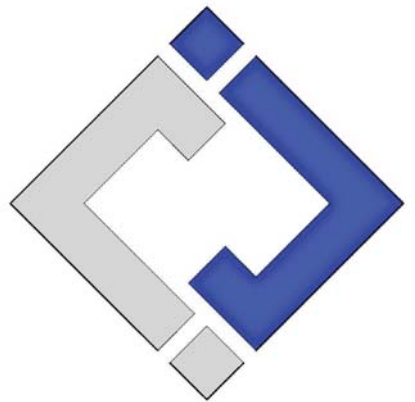


WATER PLAN

SCALE: 1/4" = 1'-0"



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SHEET TITLE

2-BEDROOM-G UNIT PLAN

SHEET NUMBER

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