MECHANICAL LEGEND

NOT ALL SYMBOLS MAY BE USED

SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCT - UP / DOWN
	RECTANGULAR RETURN DUCT - UP / DOWN
	RECTANGULAR EXHAUST DUCT - UP / DOWN
	ROUND SUPPLY DUCT - UP / DOWN
	ROUND RETURN DUCT - UP / DOWN
	ROUND EXHAUST DUCT - UP / DOWN
	FLEXIBLE DUCTWORK
	TRANSITION
	SQUARE THROAT ELBOW WITH TURNING VANES
R/D R/D	RISE/DROP IN ELEVATION
	RADIUS ELBOW
	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED TO AIR DEVICES
	BRANCH DUCT CONNECTION CONICAL TEE AND TAP ROUND TRUNK.
MVD MVD	MANUAL VOLUME DAMPER
M M	MOTORIZED DAMPER
	DUCT SMOKE DETECTOR
CO CO	DUCT-MOUNTED SENSOR
FD	FIRE DAMPER (HORIZONTAL DUCT)
SD	SMOKE DAMPER (HORIZONTAL DUCT)
FSD	FIRE/SMOKE DAMPER (HORIZONTAL DUCT)
FD	FIRE DAMPER (VERTICAL DUCT)
SD	SMOKE DAMPER (VERTICAL DUCT)
FSD	FIRE/SMOKE DAMPER (VERTICAL DUCT)
SX	SUPPLY DIFFUSER AND AIR QUANTITY. BLANK OUTS INDICATE NO THROW IN THIS DIRECTION. (SX DENOTES TYPE)
SX	
RX	RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE)
EX	EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)
CFM[a]	AIR FLOW RATE AT DOOR UNDERCUT
MX	REFER TO KEYNOTE #MX
	POINT OF CONNECTION
	POINT OF DEMOLITION
	LATERAL SEISMIC PIPING BRACING
	LATERAL AND LONGITUDINAL SEISMIC PIPING BRACING

WALL MOUNTED CONTROL DEVICES

T	THERMOSTAT OR TEMP SENSOR
H	HUMIDISTAT OR HUMIDITY SENSOR
P	PRESSURE MONITOR
CO	CARBON MONOXIDE SENSOR
MPM-X	MULTI-POINT MONITOR

HYDRONIC PIPING SYMBOLS

	PRESSURE GAUGE
	THERMOSTAT
	BALL VALVE OR GATE VALVE
	CHECK VALVE
	BACKFLOW PREVENTER
	GLOBE VALVE
	THREE WAY VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	HYDRONIC PUMP

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CTE	CONNECT TO EXISTING
CU	CONDENSING UNIT
DB	DRY BULB TEMPERATURE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EXIST	EXISTING
F	FAHRENHEIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
GA	GAUGE
HP	HORSEPOWER
HZ	HERTZ
IN	INCH
KEF	KITCHEN EXHAUST FAN
KH	KITCHEN EXHAUST HOOD
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CURRENT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NOISE CRITERIA
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OED	OPEN END DUCT
PACU	PACKAGED AIR CONDITIONING UNIT
PD	PRESSURE DROP
PH	PHASE
PRV	PRESSURE REDUCING VALVE
RA	RETURN AIR
REQD	REQUIRED
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SG	SUPPLY GRILLE
SQ	SQUARE
SR	SUPPLY REGISTER
TG	TRANSFER HUMILLE
TSTAT	THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
W	WATTS
WB	WET BULB
WC	WATER COLUMN
(A)	ABANDONED
(D)	DEMO
(E)	EXISTING

MECHANICAL GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY IN THE PERFORMANCE OF HIS WORK.
2. FURNISH ALL MATERIALS, LABOR, TOOLS, TRANSPORTATION AND INCIDENTALS TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS CALLED FOR HEREIN OR SHOWN ON THE ACCOMPANYING DRAWINGS.
3. CONTRACTOR SHALL FILE ALL DRAWINGS, PAY ALL FEES AND OBTAIN ALL PERMITS AND CERTIFICATES OF INSPECTION RELATIVE TO THIS WORK.
4. UPON COMPLETION OF THE PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO ACCEPTABLE CONDITION. ALL EQUIPMENT, COMPONENTS AND OR DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR AT COMPLETION OF THE JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY THIS CONTRACTOR.
5. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
6. ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. REFER TO SPECIFICATIONS FOR DUCT INSULATION REQUIREMENTS.
7. MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
8. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTINGS OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
9. SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.
10. WHERE PIPES OR DUCTS ARE TO PASS THROUGH WALLS, DUCT SLEEVES SHALL BE PROVIDED PRIOR TO WALL CONSTRUCTION. SLEEVE SHALL BE OF EQUAL OR GREATER GAUGE METAL THAN PIPES PASSING THROUGH.
11. DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.
12. FIRE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE RATING AND BE "U.L." LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.
13. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.
14. DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.
15. CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
16. CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.
17. PROVIDE MANUAL BALANCING/VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS TO DIFFUSERS AND GRILLES FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS, AND AT ALL LOW PRESSURE DUCT SPLITS OR SUB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING OR ACCESS PANEL.
18. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.
19. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.
20. EXISTING SYSTEMS SHOWN ARE BASED ON AVAILABLE AS-BUILT DRAWINGS, FIELD OBSERVATIONS, AND MANUFACTURER'S PRODUCT DATA AND MAY NOT REFLECT ENTIRE EXTENT OF EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY PROPER OPERATION OF EXISTING EQUIPMENT TO BE REUSED PRIOR TO BEGINNING DEMOLITION. CONTRACTOR SHALL VERIFY EXACT ORIENTATION AND LOCATION OF ALL EXISTING SYSTEMS TO BE REUSED IN NEW WORK PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES DISCOVERED PRIOR TO BEGINNING DEMOLITION.
21. SEISMIC RESTRAINT IS REQUIRED ON ALL MECHANICAL EQUIPMENT, APPLIANCES AND SYSTEMS INSTALLED IN SHELBY COUNTY. A SIGNED AND SEALED LETTER FROM THE DESIGNING ENGINEER VERIFYING THE INSTALLED SEISMIC RESTRAINTS MEET WITH THEIR DESIGN INTENT AND HAS THEIR APPROVAL MUST BE SUBMITTED PRIOR TO CONCEALMENT OF ANY PORTION OF A MECHANICAL SYSTEM OR THE FINAL INSPECTION. LOCAL AMEND IMC/IFCG 301.15.1.
22. ANY CONTRACTOR WHO DESIRES TO INSTALL, ENLARGE, ALTER, REPAIR, MOVE OR REPLACE ANY MECHANICAL SYSTEM, THE INSTALLATION OF WHICH IS REGULATED BY THIS CODE, SHALL FIRST MAKE APPLICATION AND OBTAIN THE REQUIRED PERMIT FOR THE WORK PER LOCAL AMENDMENTS, SECTION 106. ALL MECHANICAL IS SUBJECT TO THE FIELD INSPECTOR'S APPROVAL.
23. ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BE ACCESSIBLE AS REQUIRED BY IMC 306 AND IFGC 306.
24. PROVIDE WATER LEVEL DETECTION DEVICES COMPLIANT WITH IMC 307.2.3.1.
25. ALL VISIBLE MECHANICAL ITEMS (LOUVERS, WALL CAPS, HOODS, SCREENS, ETC.) ON EXTERIOR WALLS / ROOFS SHALL BE PREFINISHED TO MATCH ADJACENT WALL / ROOF COLOR - CUSTOM COLOR MAY BE REQUIRED TO MATCH EXTERIOR FINISH COLOR.
26. EXTERIOR WALLS ARE RATED FOR TYPE V-A CONSTRUCTION PER 2021 IBC TABLE 601 FOR BUILDING ELEMENTS. EXTERIOR WALL OPENINGS ARE NOT REQUIRED TO BE PROTECTED WITH FIRE DAMPERS.

MECHANICAL SPECIFICATIONS

SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. HVAC SYSTEM INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
- SUPPLY AND RETURN DUCTWORK SYSTEM WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- TEMPERATURE CONTROL SYSTEM INCLUDING LOW VOLTAGE WIRING AND CONDUIT
- DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN

ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND OTHER REGULATION GOVERNING WORK. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION, SUCH AS DUCTWORK, FANS, HOODS, SUPPLY AND RETURN DIFFUSERS, ETC., SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION. CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH THE OWNER.

PERMITS

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL.

MISCELLANEOUS

COORDINATE THE INSTALLATION OF ALL ROOF FLASHINGS AT ROOF PENETRATION. ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

CONTROLS

PROVIDE STANDALONE MANUFACTURER CONTROLS WITH EQUIPMENT. PROVIDE INTERCONNECTIONS WITH EXHAUST FANS AND LOUVERS. PROVIDE ANY NECESSARY TRANSFORMERS AND RELAYS FOR A FULLY FUNCTIONING SYSTEM.

CONTROL WIRING

THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM. THE SYSTEM SHALL INCLUDE ALL INTERLOCKS FOR EQUIPMENT. CONTROL WIRING SHALL BE RUN IN CONDUIT. REFER TO DIVISION 26 SPECIFICATIONS FOR CONDUIT REQUIREMENTS.

TEMPERATURE & HUMIDITY SENSORS

TEMPERATURE & HUMIDITY SENSORS SHALL BE PROGRAMMABLE TO BE PROVIDED WITH THE HVAC UNIT. MULTISTAGE SEVEN DAY PROGRAMMABLE THERMOSTAT. MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT IDENTIFICATION WITH 1/8" HIGH WHITE LETTERS ON BLACK PHENOLIC LABELS BACKGROUND, I.E. "AC-1 : CUSTOMER AREA" AND "AC-2 : WORK AREA".

TESTING & BALANCING

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST SHALL BE PER NEBB OR AABC, AND ASHRAE STANDARDS. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, AND OPERATION. BALANCE MECHANICAL SYSTEM AND SUBMIT COMPLETED TEST REPORT TO CONSTRUCTION MANAGER, PRIOR TO THE REQUEST FOR FINAL PAYMENT. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, NEBB OR AABC. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 5% OF AIR VOLUMES INDICATED. ANY DISCREPANCY SHALL BE REPORTED TO HVAC INSTALLER FOR DUCT CORRECTION, PRIOR TO FINAL REPORT. IN ADDITION, THE BALANCING CONTRACTOR SHALL VERIFY THAT THE BUILDING PRESSURE IS BETWEEN 0.02" AND 0.05" W.G. POSITIVE WITH RESPECT TO THE OUTDOORS. AFTER FINAL DUCT ADJUSTMENTS HAVE BEEN MADE, FINAL BALANCING SHALL BE PERFORMED AND THE RESULTS REPORTED IN A CERTIFIED BALANCE REPORT. FINAL BALANCED POSITIONS SHALL BE MARKED ON THE DAMPER WITH A PERMANENT MARKER. NOTE ALL AIR QUANTITIES OUTSIDE OF TOLERANCE IN REPORT.

AT PROJECT COMPLETION, A COPY OF THE FINAL BALANCE REPORT MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW, COMMENT, AND ACCEPTANCE PRIOR TO ISSUE OF CERTIFICATE OF OCCUPANCY.

DUCTWORK & ACCESSORIES

MINIMUM DUCT GAUGES ARE AS FOLLOWS:

MAXIMUM DIMENSIONS	STEEL GAUGE
THRU 12"	26
13" THRU 30"	24
31" THRU 54"	22
55" THRU 84"	20

DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

QUALIFY EACH WELDER IN ACCORDANCE WITH AWS QUALIFICATION TESTS FOR WELDING PROCESSES INVOLVED. CERTIFY THAT THEIR QUALIFICATION IS CURRENT.

SHEETMETAL DUCTWORK

ALL DUCTWORK TO BE RIGID SHEET METAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA LOW VELOCITY DUCT CONSTRUCTION STANDARDS. FIBERGLASS DUCTBOARD IS NOT ALLOWED. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER. MOUNT DUCTWORK AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE. (NO SQUARE THROAT ELBOWS SHALL BE INSTALLED WITHOUT DOUBLE THICKNESS TURNING VANES.) ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE LOADED TYPE VINYL, VIBRATION ELIMINATION CONNECTIONS, (F.C.) FLEXIBLE CONNECTIONS. DUCTWORK TRANSITIONS SHALL BE (FOT) "FLAT ON TOP" UNLESS OTHERWISE SPECIFIED ON PLAN. ALL BRANCH SUPPLY DUCTS SHALL HAVE (MVD) MANUAL VOLUME DAMPERS INSTALLED FOR BALANCING, SEE SYMBOL LIST. ALL CONTRACTOR FABRICATED AND MANUFACTURER FABRICATED COMPONENTS OF THE OUTSIDE AIR, SUPPLY AIR, RETURN AIR AND EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AIR-TIGHT. THE INSTALLED SYSTEMS SHALL BE PRESSURE TESTED AS SPECIFIED. PIPE OPENINGS IN SYSTEM COMPONENTS SHALL HAVE SHEET METAL BAFFLES, SET IN SEALANT, TO PREVENT LEAKAGE.

FLEXIBLE TYPE DUCT

FLEXIBLE DUCT SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.

USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 10 LINEAR FEET PER RUN WHERE POSSIBLE. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.

DUCT SEALANT

SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NONMIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC.

THERMAL INSULATION

PROVIDE EXTERNAL THERMAL INSULATION WITH AN INTEGRAL VAPOR BARRIER FACING OF SUFFICIENT THICKNESS TO MEET LOCAL ENERGY CODE REQUIREMENTS. PROVIDE INSULATION ON EXHAUST AND OUTSIDE AIR DUCTS, AND ON CONCEALED PORTIONS OF SUPPLY AND RETURN AIR DUCTS. DO NOT INSULATE EXPOSED DUCTWORK AND PORTIONS OF DUCTWORK THAT ARE INTERNALLY LINED. THERMAL INSULATION TO COMPLY WITH AN NFPA FLAME SPREAD OF 25 OR LESS, AND SMOKE DEVELOPED NO GREATER THAN 50.

HVAC EXTERIOR DUCTWORK INSULATION

PROVIDE CLOSED-CELL POLYISOCYANURATE FOAM CORE WITH FOIL FACE DUCT BOARD INSULATION FOR DUCTWORK LOCATED OUTDOORS. MINIMUM R-VALUE OF R-6. EQUAL TO JOHNS MANVILLE MODEL XSPECT ISOFOAM APF. USE MECHANICAL FASTENERS TO SECURE INSULATION PER MANUFACTURER'S RECOMMENDATION. ANY VOIDS OR CRACKS SHOULD BE FILLED TO CREATE A CONTINUOUS AND CONSISTENT INSULATION SYSTEM. TAPER TOP OF DUCTWORK TO PREVENT POOLING. USE A UL 181A COMPLIANT TAPE OR VAPOR RETARDANT MASTIC TO CLOSE ALL BOARD SEAMS AND PENETRATIONS. COVER INSULATION WITH UV-RESISTANT, FLEXIBLE WEATHERPROOF CLADDING WITH SELF-STICK CLOSURE SYSTEM. EQUAL TO POLYGUARD MODEL ALUMAGUARD.

HOOD EXHAUST DUCTWORK

ALL SECTIONS OF THE EXHAUST DUCTWORK TO BE CONSTRUCTED WITHOUT FORMING DIPS AND TRAPS AND MUST SLOPE NOT LESS THAN 1/4 INCH PER FOOT (2%) TOWARD THE HOOD OR AN APPROVED GREASE RESERVOIR (IMC 506.3.7). GREASE DUCTS MUST BE CONSTRUCTED OF STEEL NOT LESS THAN 0.055 IN (16 GAUGE) IN THICKNESS OR STAINLESS STEEL NOT LESS THAN 0.044 IN (18 GAUGE) IN THICKNESS (EXCEPTIONS FOR UL LISTED GREASE DUCTWORK). GREASE DUCTS: ALL SEAMS, JOINTS, AND PENETRATIONS MUST HAVE LIQUID TIGHT EXTERNAL WELDS (IMC 506.3.2). ANY PORTION OF THE GREASE DUCTWORK HAVING SECTIONS NOT PROVIDED WITH ACCESS FROM THE DUCT ENTRY OR DISCHARGE MUST BE PROVIDED WITH CLEANOUT OPENINGS (IMC 506.3.8 AND 506.3.9).

SUPPORTS

PROVIDE HOT-DIPPED GALVANIZED STEEL, FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK.

DAMPERS

PROVIDE OPPOSED-BLADE, MULTI-LEAF VOLUME CONTROL DAMPERS AT SUPPLY AND RETURN TAKEOFFS (AT BRANCH DUCT) WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS.

GRILLES, REGISTERS & DIFFUSERS

DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF EXISTING CEILINGS USED IN THIS PROJECT.

ACOUSTICAL DUCT LINER

UNLESS OTHERWISE INDICATED ON THE PLANS, PROVIDE MINIMUM OF R-5.6 GLASS FIBER ACOUSTICAL DUCT LINER ON SUPPLY AND RETURN DUCTWORK WITHIN 10 FEET OF THE DISCHARGE AND INTAKE OF AIR HANDLING UNITS. INCREASE DUCT SIZED INDICATED ON PLANS AS NEEDED IN EACH DIMENSION TO ACCOMMODATE LINER. LINER SHALL BE FASTENED TO DUCT WITH MECHANICAL LINER FASTENERS IN ACCORDANCE WITH SMACNA.

DAMPER CONTROL

CONTRACTOR TO ENSURE THAT ALL ELECTRICAL CONNECTIONS TO MECHANICAL DAMPERS ARE CONNECTED.

PIPING

NATURAL GAS PIPING

NATURAL GAS PIPING SHALL BE STEEL PIPE, ASTM A 53; TYPE E OR S; GRADE B; SCHEDULE 40; BLACK. UNIONS SHALL BE ASME B16.39, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT, GROUND JOINT, AND THREADED ENDS ACCORDING TO ASME B1.20.1. STEEL WELDING FITTINGS SHALL BE ASME B16.9, WROUGHT STEEL OR ASME B16.11, FORGED STEEL. CONSTRUCT JOINTS ACCORDING TO AWS D10.12, "RECOMMENDED PRACTICES AND PROCEDURES FOR WELDING LOW CARBON STEEL PIPE."

INSTALL UNIONS ADJACENT TO EACH VALVE. SHUTOFF VALVES FOR 2" AND SMALLER, THREADED ENDS ACCORDING TO ASME B1.20.1 FOR PIPE THREADS. DO NOT INSTALL THREADED VALVES INSIDE BUILDING OR ABOVE CEILINGS. GAS PIPING WITH WELDED JOINTS AND PROTECTIVE WRAPPING MAY BE INSTALLED IN WALLS SUBJECT TO APPROVAL OF AUTHORITIES HAVING JURISDICTION. WHERE INSTALLED IN WALLS, GAS PIPING SHALL BE PAINTED WITH TWO COATS OF RUST INHIBITIVE PAINT.

CONDENSATE PIPING

PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". CONDENSATE DRAINS SHALL BE ROUTED AS SHOWN ON PLUMBING.

PIPE SUPPORTS

ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACE OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

SEISMIC RESTRAINT

PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-16.

WHERE DESIGN FOR SEISMIC IN ADDITION TO WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

FIRE SPRINKLER AND NATURAL GAS SYSTEMS SHALL HAVE A COMPONENT IMPORTANCE FACTOR OF Ip = 1.5. ALL OTHER SYSTEMS SHALL HAVE A COMPONENT IMPORTANCE FACTOR OF Ip = 1.0.

USE THE SEISMIC DESIGN SCHEDULE TO DETERMINE REQUIREMENTS FOR SEISMIC RESTRAINT FOR EACH COMPONENT.

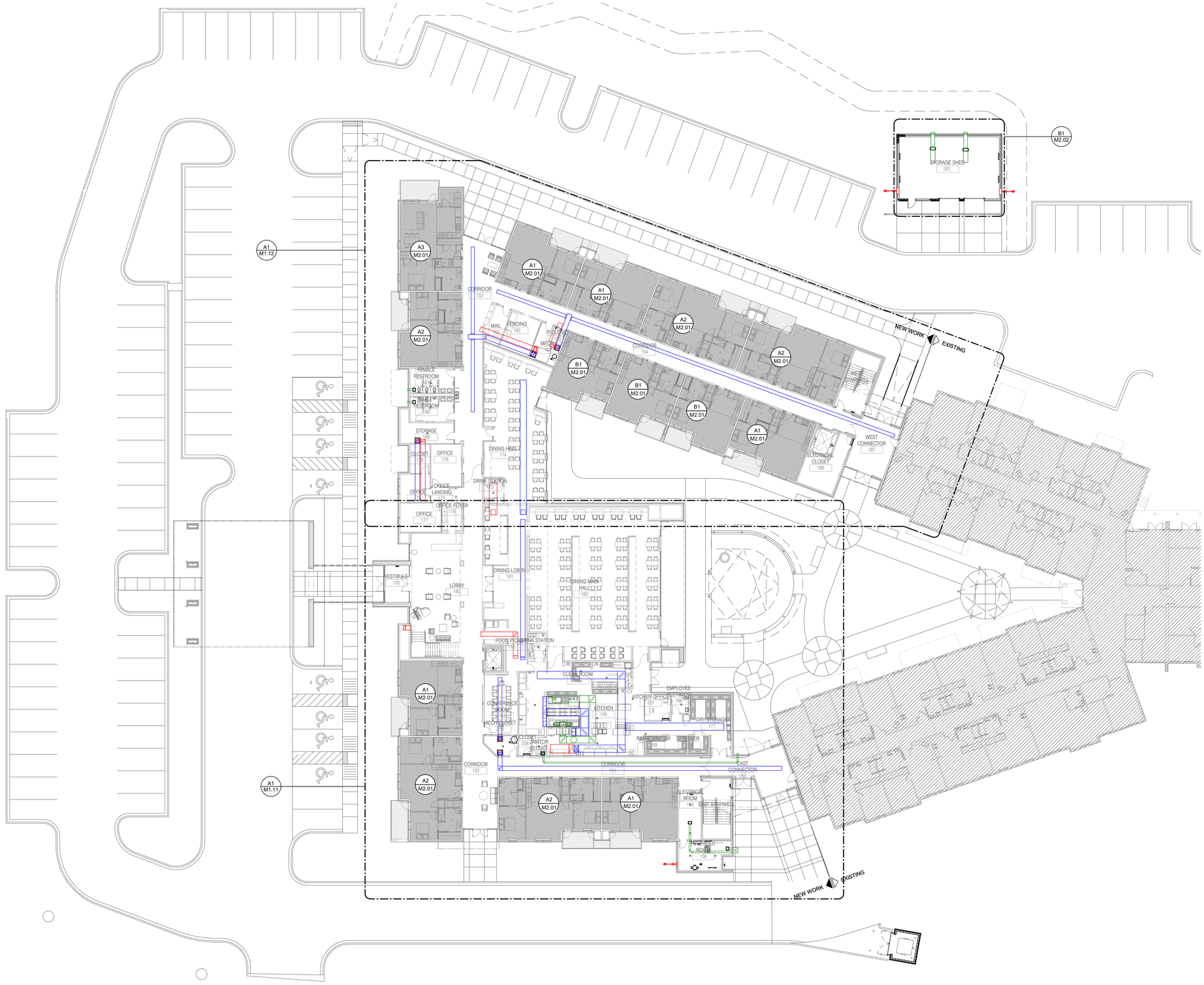
FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. THE CONTRACTOR SHALL INCLUDE THIS DESIGN IN THEIR BID.

WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST B EDESIGNED BY THE REGISTERED DESIGN PROFESSIONAL. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

SEISMIC RESTRAINT FOR DUCT WORK, PIPING, CONDUIT, CABLE TRAY, AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS. PROVIDE LAYOUT DRAWINGS AS A SUBMITTAL TO THE ARCHITECT / ENGINEER FOR REVIEW.

MECHANICAL SHEET INDEX

NUMBER	SHEET NAME
M0.01	General Notes and Legend - Mechanical
M1.10	First Floor Plan - Mechanical
M1.11	Partial First Floor Plan - Mechanical - South
M1.12	Partial First Floor Plan - Mechanical - North
M1.20	Second Floor Plan - Mechanical
M1.21	Partial Second Floor Plan - Mechanical - South
M1.22	Partial Second Floor Plan



A1 First Floor Plan - Mechanical

SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

DEMOLITION NOTES

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MECHANICAL KEYNOTES

M1	STARTER MECH KEYNOTE - MODIFY OR DELETE

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

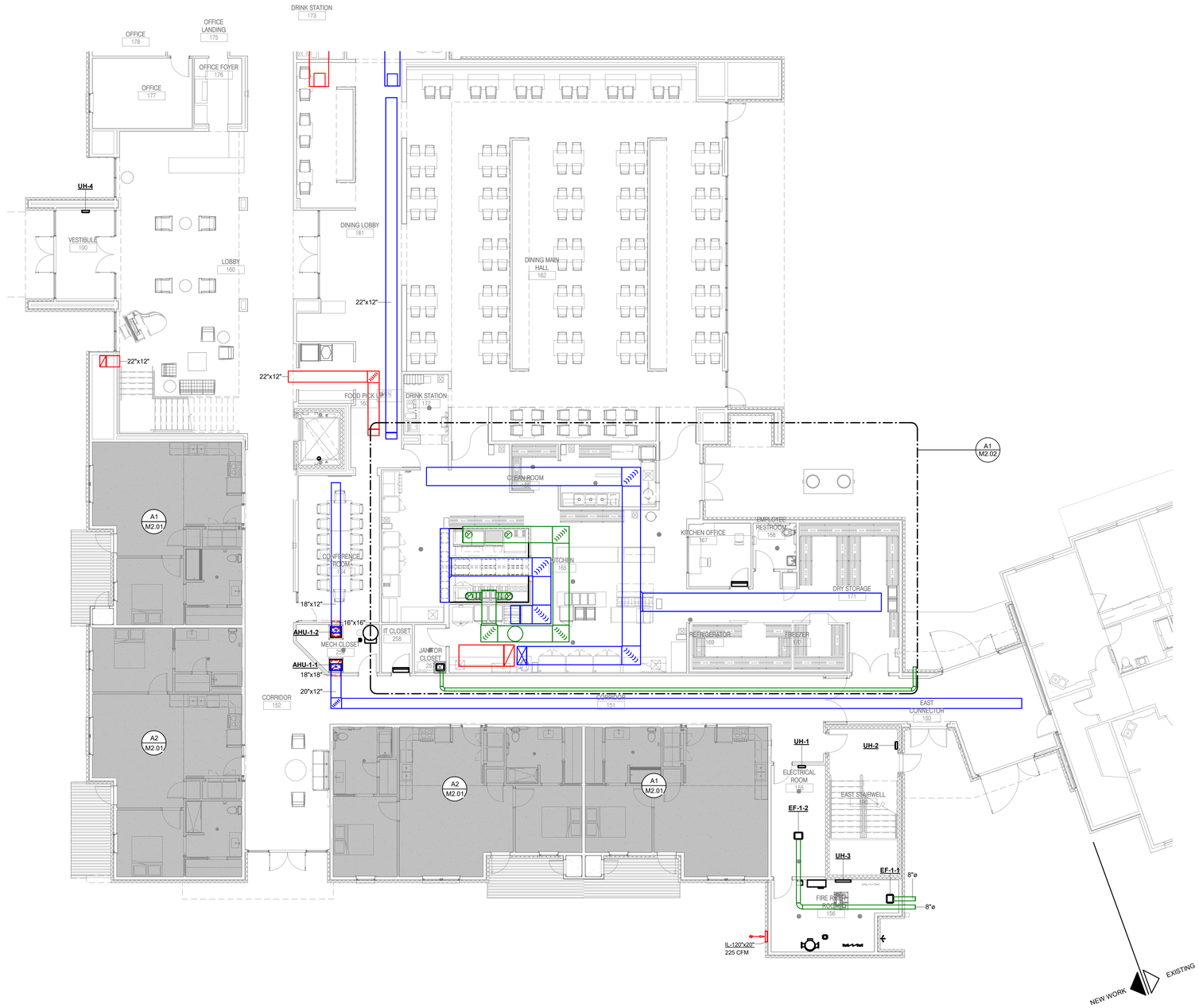
First Floor Plan - Mechanical

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M1.10



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MECHANICAL KEYNOTES

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial First Floor Plan - Mechanical - South

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DATE

13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

M1.11

A1 Partial First Floor Plan - Mechanical - South

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

0' 2' 10' 20' 40'



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MECHANICAL KEYNOTES

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9720 Village Circle
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Phone 901.260.7050
www.CSAengineeringinc.com

JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial First Floor Plan - Mechanical - North

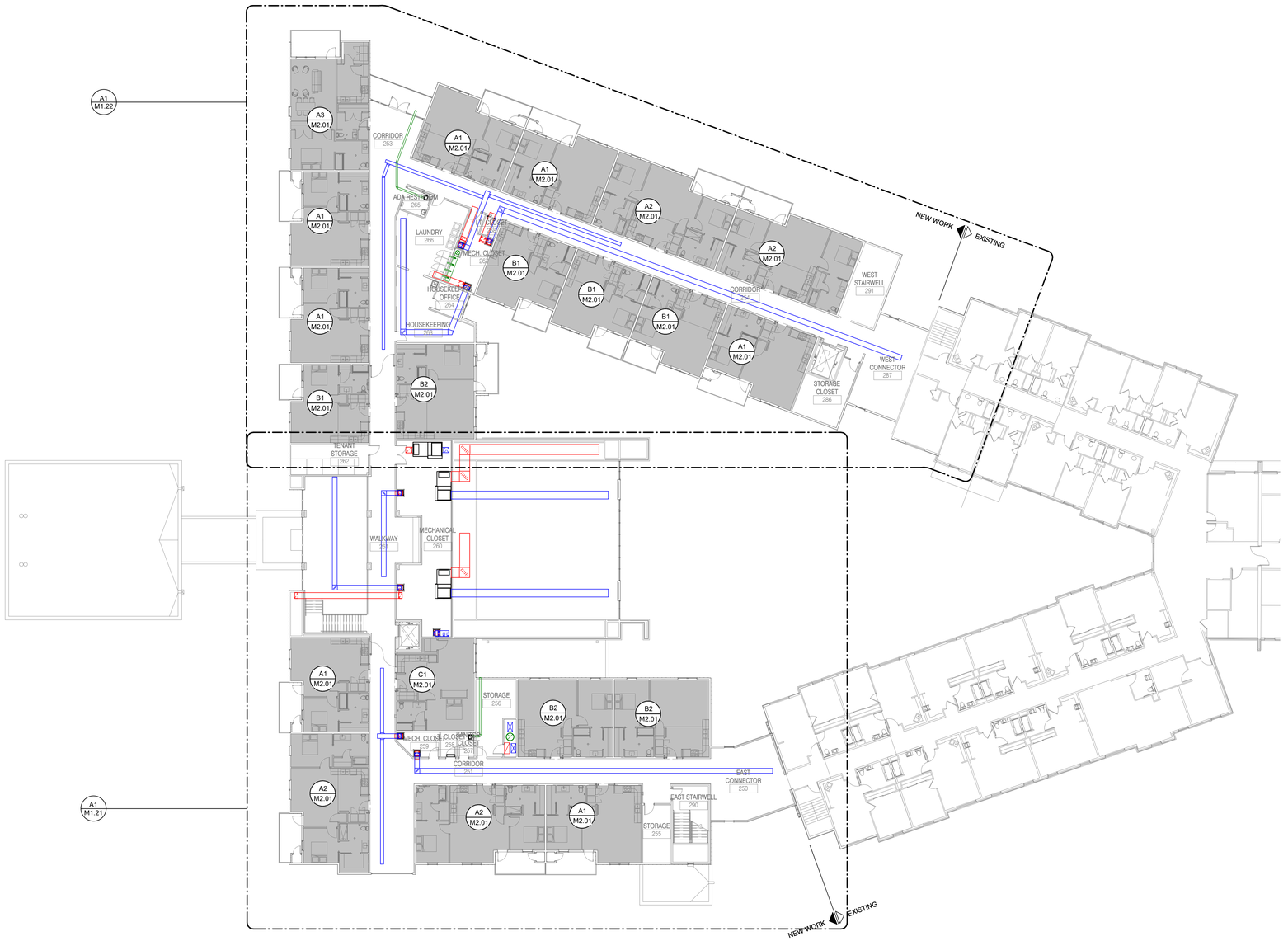
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DATE
13 FEB. 2026
PHASE
Design Development
DRAWING NUMBER
M1.12

A1 Partial First Floor Plan - Mechanical - North
SCALE: 1/8" = 1'-0"

0' 2' 10' 20' 40'



DEMOLITION NOTES

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Second Floor Plan - Mechanical

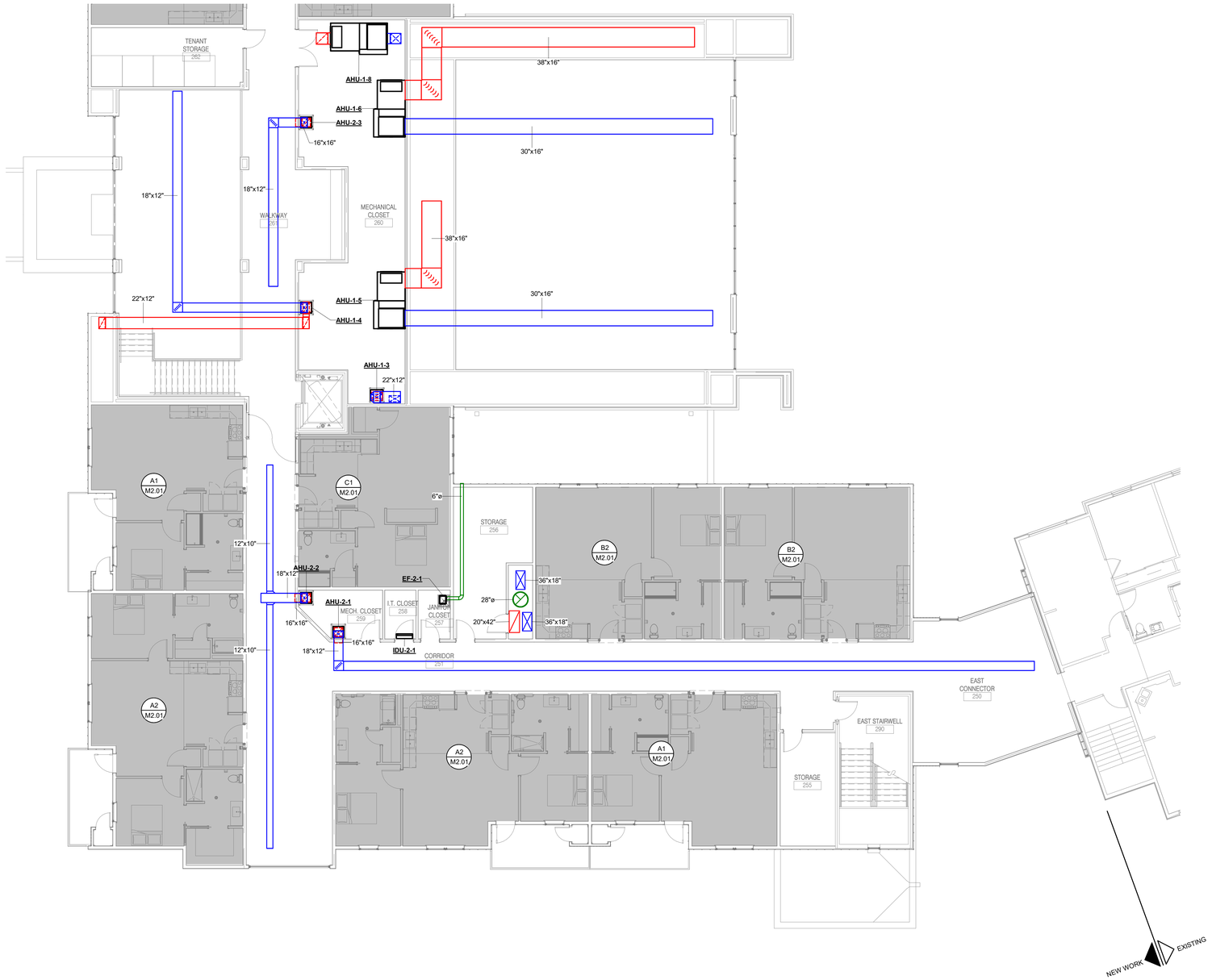
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DATE
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M1.20

A1 Second Floor Plan - Mechanical
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'



A1 Partial Second Floor Plan - Mechanical - South

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

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MECHANICAL KEYNOTES

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9720 Village Circle
Lakeland, TN 38002
Phone 901.360.7050
www.CSAengineeringinc.com

JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Second Floor Plan - Mechanical - South

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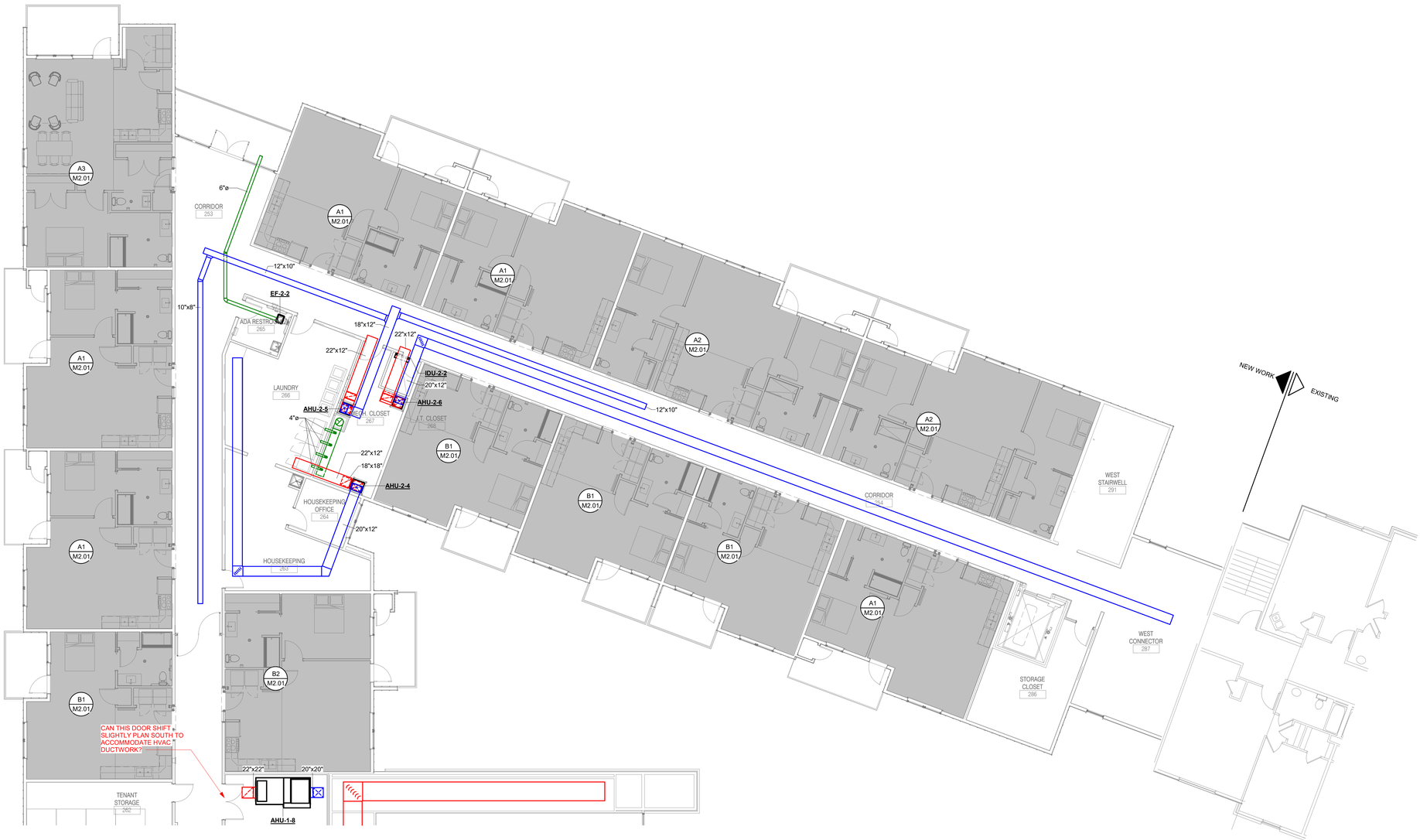
13 FEB. 2026

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Design Development

DRAWING NUMBER

M1.21



DEMOLITION NOTES

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MECHANICAL KEYNOTES

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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Second Floor Plan - Mechanical - North

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Design Development

DRAWING NUMBER

M1.22

A1 Partial Second Floor Plan - Mechanical - North

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

0' 2' 10' 20' 40'



DEMOLITION NOTES

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MECHANICAL KEYNOTES

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Phone 901.360.7050
www.CSAengineeringinc.com

JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Third Floor Plan - Mechanical

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Design Development

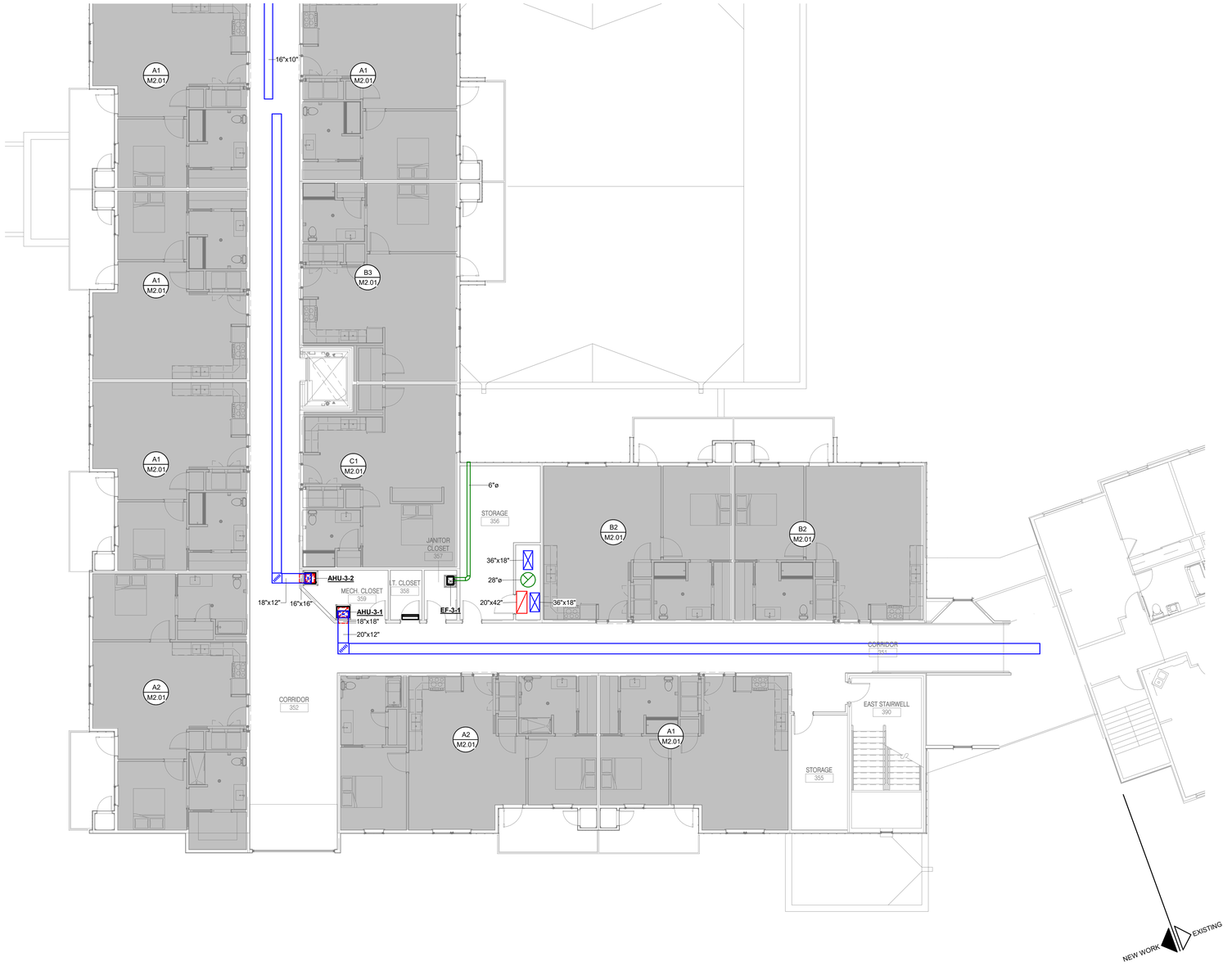
DRAWING NUMBER

M1.30

A1 Third Floor Plan - Mechanical

SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'



DEMOLITION NOTES

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MECHANICAL KEYNOTES

A1 Partial Third Floor Plan - Mechanical - South

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

0' 2' 10' 20' 40'

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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Third Floor Plan - Mechanical - South

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Design Development

DRAWING NUMBER

M1.31



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MECHANICAL KEYNOTES

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www.CSAengineeringinc.com

JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Third Floor Plan - Mechanical - North

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13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

M1.32

A1 Partial Third Floor Plan - Mechanical - North
SCALE: 1/8" = 1'-0"

0' 2' 10' 20' 40'



DEMOLITION NOTES

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MECHANICAL KEYNOTES

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PROJECT NO. 25266
Chad Stewart & Associates, Inc.
9720 Village Circle
Lakeland, TN 38002
Phone 901.360.7050
www.CSAengineeringinc.com

JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Fourth Floor Plan - Mechanical

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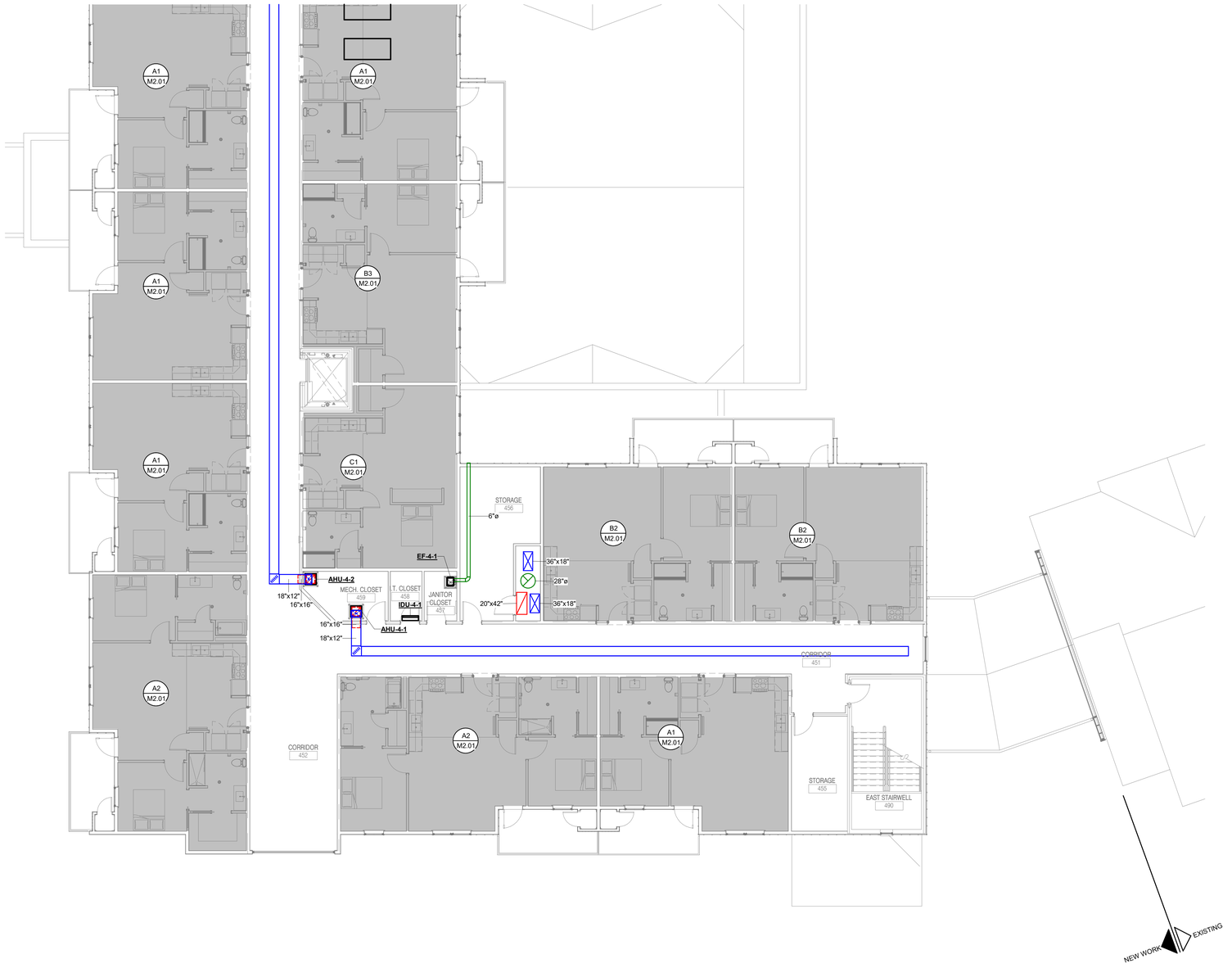
Design Development

DRAWING NUMBER

M1.40

A1 Fourth Floor Plan - Mechanical
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'



A1 Partial Fourth Floor Plan - Mechanical - South

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

0' 2' 10' 20' 40'

DEMOLITION NOTES

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Fourth Floor Plan - Mechanical - South

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Design Development

DRAWING NUMBER

M1.41



DEMOLITION NOTES

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MECHANICAL KEYNOTES

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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Fourth Floor Plan - Mechanical - North

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PHASE

Design Development

DRAWING NUMBER

M1.42

A1 Partial Fourth Floor Plan - Mechanical - North
SCALE: 1/8" = 1'-0"

0' 2' 10' 20' 40'



DEMOLITION NOTES

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MECHANICAL KEYNOTES

#

1 Roof Plan - Mechanical
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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JOB NUMBER
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REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE

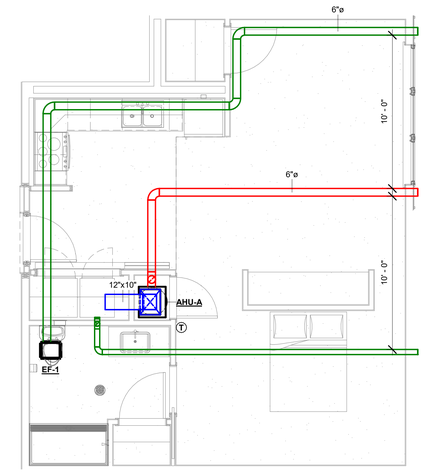
801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Roof Plan - Mechanical

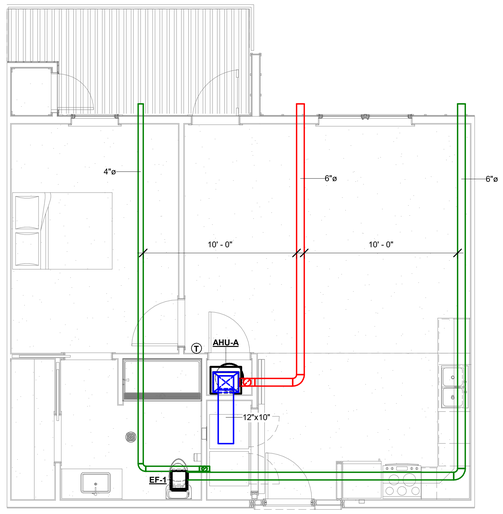
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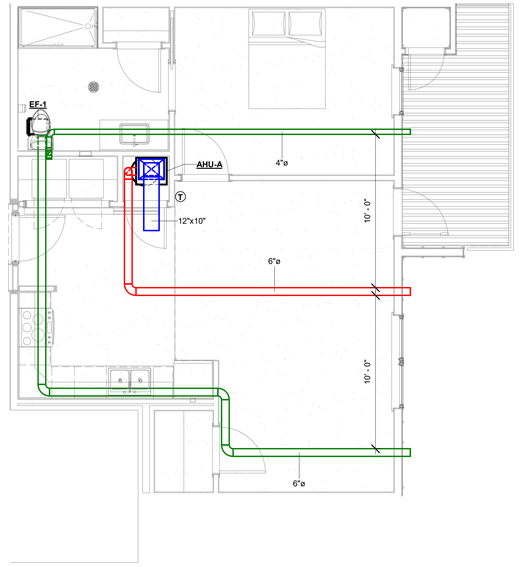
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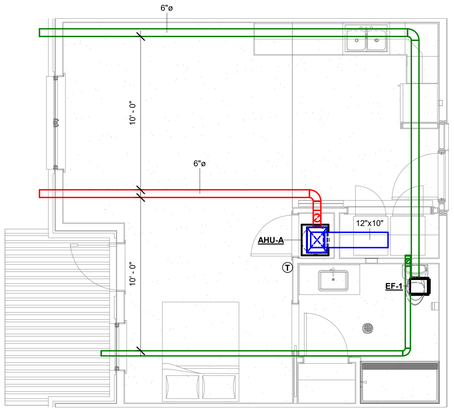
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Design Development
DRAWING NUMBER
M1.50



C1 Enlarged Plan - Studio Elevator
SCALE: 1/4" = 1'-0"



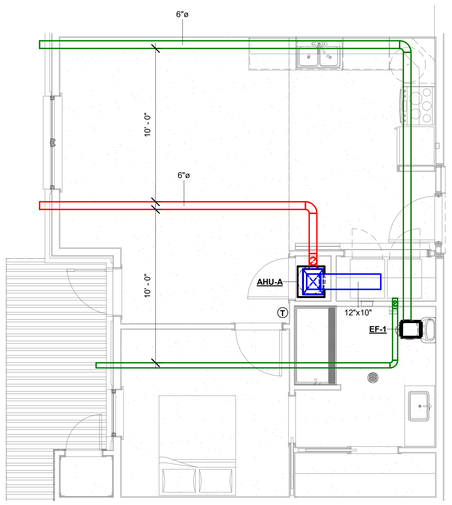


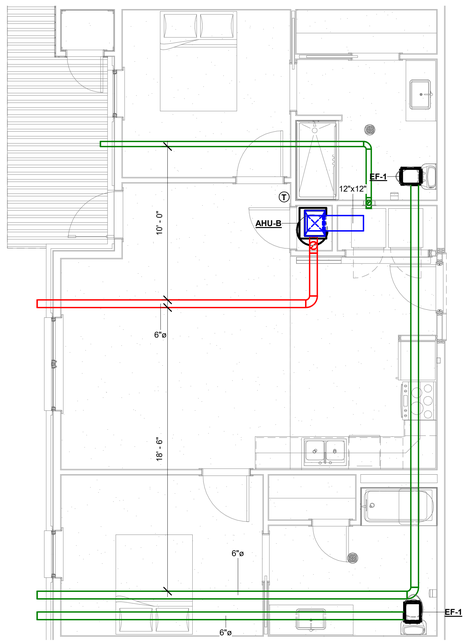


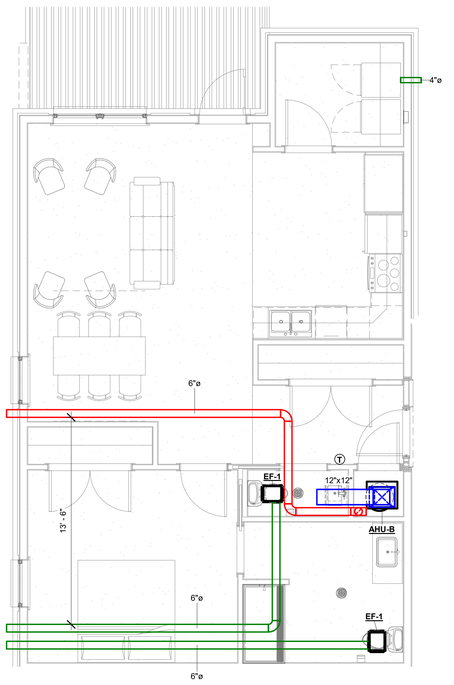
B2 Enlarged Plan - 1-Bd Outer Balcony
SCALE: 1/4" = 1'-0"

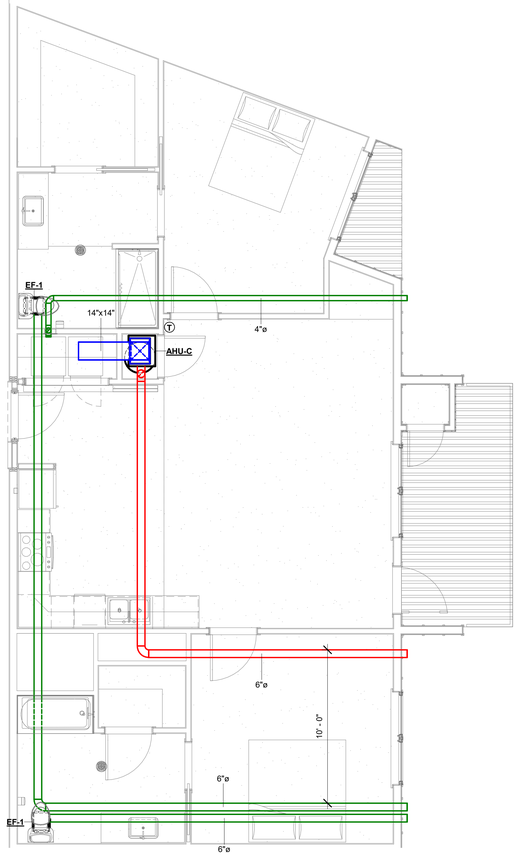
B3 Enlarged Plan - 1-Bd Elevator
SCALE: 1/4" = 1'-0"

B1 Enlarged Plan - Studio Unit
SCALE: 1/4" = 1'-0"









A1 Enlarged Plan - 1-Bd Unit
SCALE: 1/4" = 1'-0"

A2 Enlarged Plan - 2-Bd Unit
SCALE: 1/4" = 1'-0"

A3 Enlarged Plan - 1-Bd Suite
SCALE: 1/4" = 1'-0"

A4 Enlarged Plan - 2-Bd Suite
SCALE: 1/4" = 1'-0"

0' 1' 5' 10' 20'

MECHANICAL NOTES

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

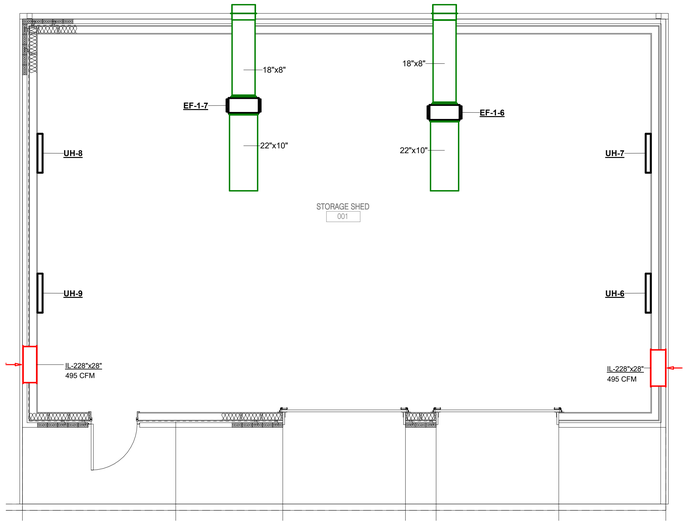
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DRAWING NAME
Enlarged Unit Plans - Mechanical

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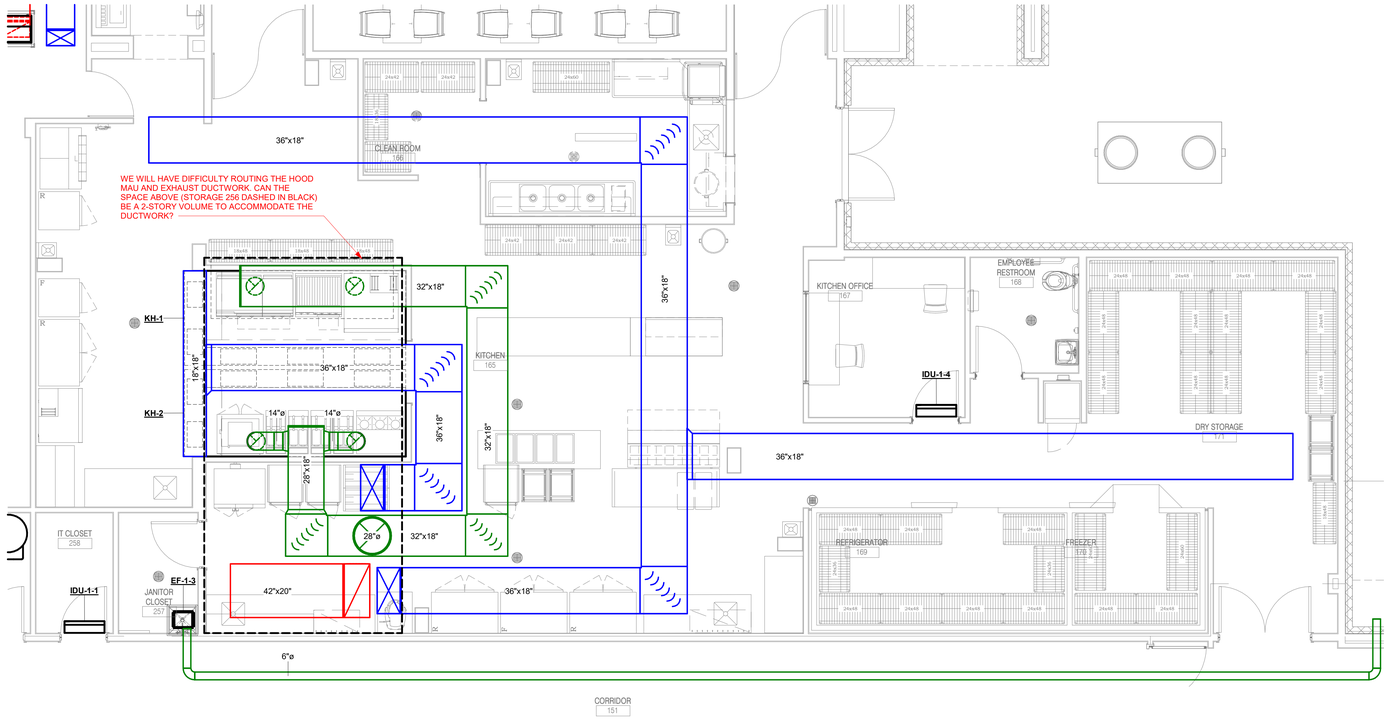
DATE
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Design Development
DRAWING NUMBER
M2.01



B1 Enlarged Plan - Mechanical - Maintenance Building

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

0' 4' 20' 40' 80'



A1 Enlarged Plan - Mechanical - Kitchen

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

0' 4' 20' 40' 80'

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3	ALL RATED DUCT AND PIPE PENETRATIONS SHALL BE FIRESTOPPED AS REQUIRED PER LOCAL CODE.
4	ALL EXTERIOR WALL CAPS SHALL BE THE SAME SIZE AND INSTALLED AT THE SAME HEIGHT. PRIME AND PAINT WALL CAPS AS DIRECTED BY ARCHITECT.
5	ALL CEILING MOUNTED DEVICES SHALL BE LOCATED PER THE ARCHITECTURAL REFLECTED CEILING PLANS.
6	DRYER EXHAUST VENTS SHALL BE LOCATED A MINIMUM OF 3-FEET AWAY FROM ALL OPERABLE OPENINGS INTO BUILDING, AND A MINIMUM OF 10-FEET AWAY FROM MECHANICAL AIR INTAKES.

MECHANICAL KEYNOTES

#

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Enlarged Plans - Mechanical

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PROJECT TITLE

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DRAWING NAME

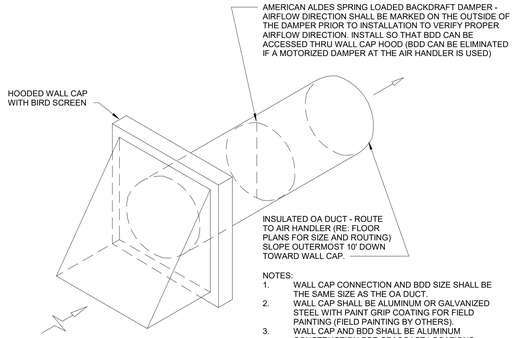
Building Sections - Mechanical

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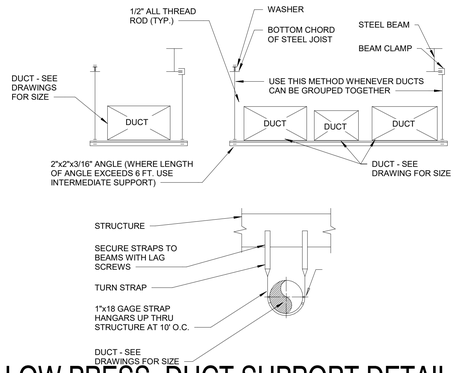
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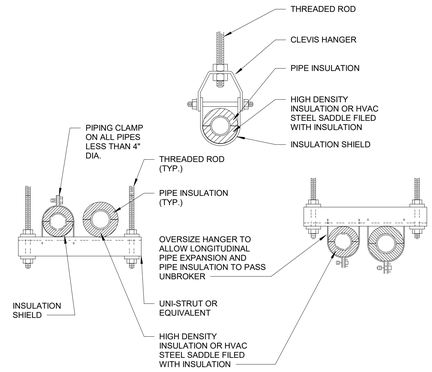
1 OUTSIDE AIR INTAKE WALL CAP DETAIL

SCALE: N.T.S.



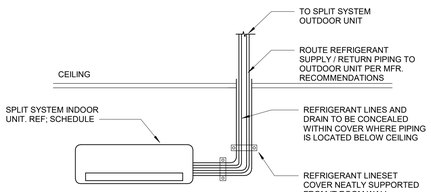
2 LOW PRESS. DUCT SUPPORT DETAIL

SCALE: N.T.S.



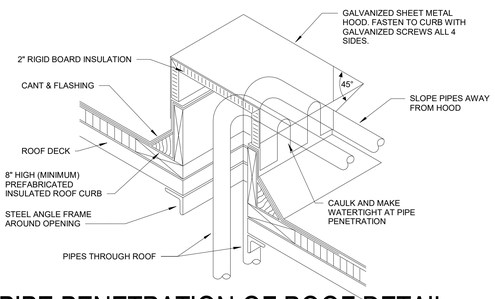
3 PIPE SUPPORT DETAIL

SCALE: N.T.S.



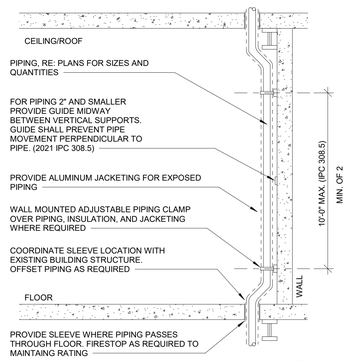
4 REFRIGERANT LINESET COVER DETAIL

SCALE: N.T.S.



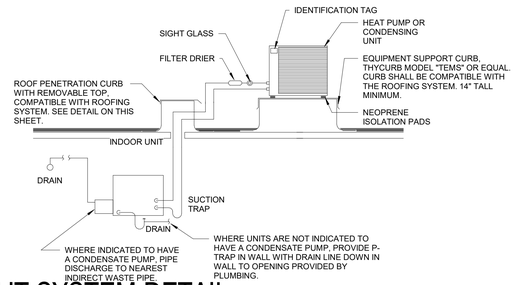
5 PIPE PENETRATION OF ROOF DETAIL

SCALE: N.T.S.



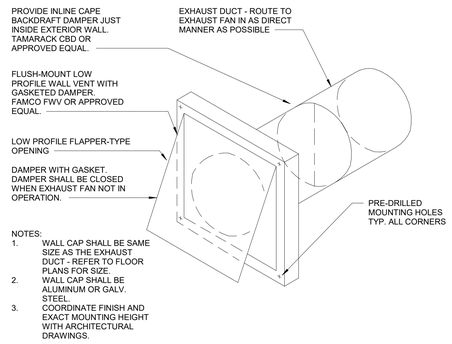
6 VERTICAL PIPING SUPPORT DETAIL

SCALE: N.T.S.



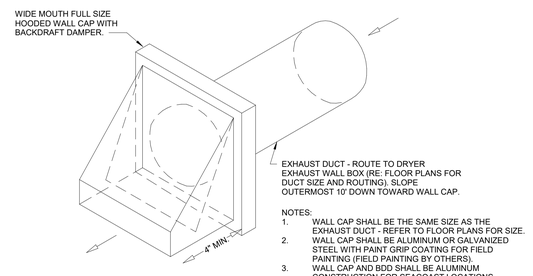
7 SPLIT SYSTEM DETAIL

SCALE: N.T.S.



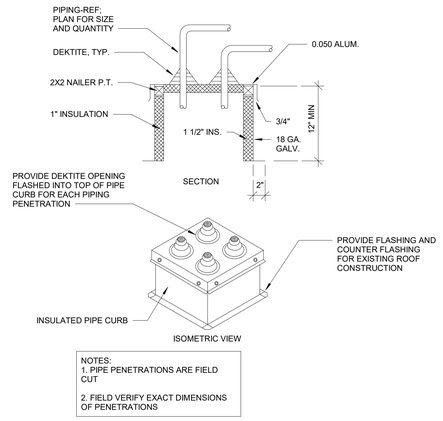
8 EXHAUST WALL CAP DETAIL

SCALE: N.T.S.



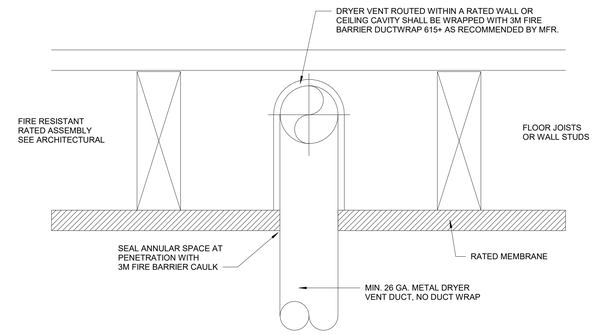
9 DRYER EXHAUST WALL CAP DETAIL

SCALE: N.T.S.



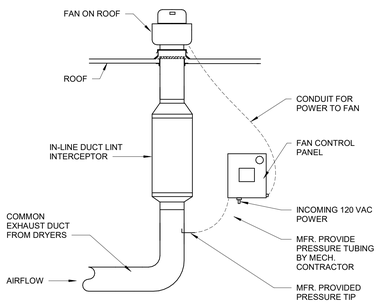
10 VERTICAL PIPE CURB DETAIL

SCALE: N.T.S.



11 DRYER VENT PENETRATION THRU CEILING ASSEMBLY

SCALE: N.T.S.



12 LAUNDRY VENT LINT INTERCEPTOR DETAIL

SCALE: N.T.S.

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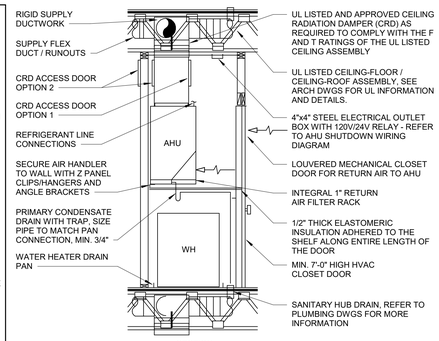
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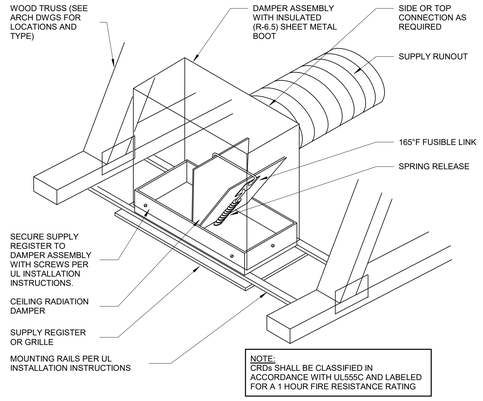
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NOTES:
1. GENERAL CONTRACTOR SHALL COORDINATE THE PLENUM RATING OF ALL MATERIALS IN THE HVAC CLOSET WITH ALL DISCIPLINES PRIOR TO CONSTRUCTION.
2. ALL MATERIALS, INCLUDING THE WIRING AND PIPING, IN THE CLOSET SHALL BE PLENUM RATED AS REQUIRED BY BUILDING CODE.
3. HVAC CLOSET MAY BE CONSTRUCTED OF COMBUSTIBLE MATERIALS WHERE PERMITTED BY BUILDING CODE.
4. GEN. AND MECH. CONTRACTORS SHALL CONFIRM ADEQUATE LAYOUT, ROUTING, AND INSTALLATION OF ALL EQUIPMENT, PIPING, AND SYSTEMS IN CLOSET WITH ALL DISCIPLINES PRIOR TO CONSTRUCTION.
5. AIR HANDLER SHALL BE INSTALLED SUCH THAT THE TOP OF THE AHU SHALL NOT EXCEED THE TOP OF THE CLOSET DOOR OPENING.
6. CAREFULLY COORDINATE LOCATION OF CEILING RADIATION DAMPER ACCESS PRIOR TO CONSTRUCTION.
7. GEN. CONTR. SHALL COORDINATE FLOOR/ATTIC TRUSS LOCATIONS ABOVE CLOSET WITH PLUMBING AND MECH. CONTR. TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. TRUSS SPACING MAY REQUIRE GREATER THAN 24" O.C. AT HVAC CLOSET.
8. PROVIDE CONDENSATE OVERFLOW SHUT-OFF SWITCH ON SECONDARY CONNECTION ON PRIMARY DRAIN PAN.
9. INTERLOCK CLOSET SMOKE DETECTOR TO SHUTDOWN AHU OPERATION WHERE REQUIRED BY AHJ.

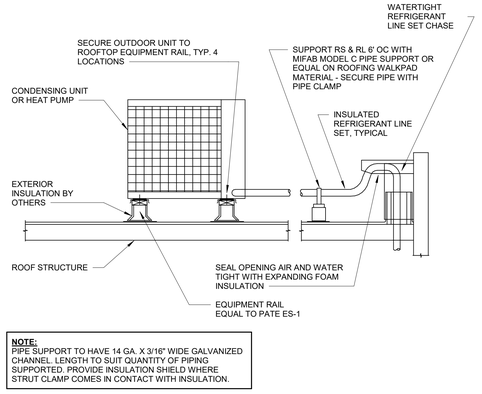


1 DWELLING UNIT AHU CLOSET WITH WH DETAIL
SCALE: N.T.S.



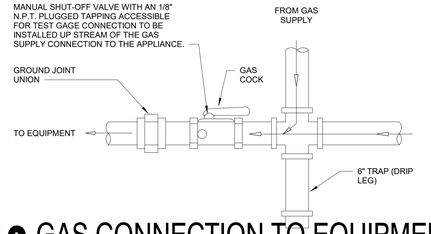
NOTE:
CRDs SHALL BE CLASSIFIED IN ACCORDANCE WITH UL555C AND LABELED FOR A 1 HOUR FIRE RESISTANCE RATING

2 CEILING RADIATION DAMPER DETAIL
SCALE: N.T.S.



NOTE:
PIPE SUPPORT TO HAVE 14 GA. X 3/16" WIDE GALVANIZED CHANNEL, LENGTH TO SUIT QUANTITY OF PIPING SUPPORTED. PROVIDE INSULATION SHIELD WHERE STRUT CLAMP COMES IN CONTACT WITH INSULATION.

6 OUTDOOR UNIT ROOF MOUNTING DETAIL
SCALE: N.T.S.



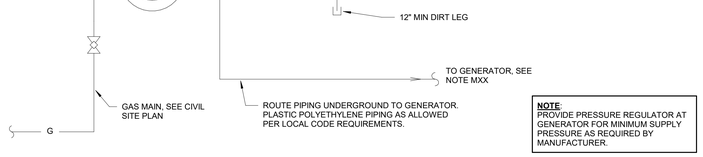
13 GAS CONNECTION TO EQUIPMENT DETAIL
SCALE: N.T.S.

NOTES:
1. DRYER EXHAUST BOX MODEL 425 AS MANUFACTURED BY IN-O-VATE TECHNOLOGIES; LISTED FOR 1-HR (F & T) WALL INSTALLATION; UL THROUGH-PENETRATION FIRESTOP SYSTEM NO. W-L-7129. USE FOR UPWARD EXHAUST DIRECTION AND DOWNWARD EXHAUST DIRECTION ONLY FOR PEDESTAL AND STACKING DRYERS.
2. FOR DOWNWARD EXHAUST DIRECTION USE THE MODEL 4D (EXCEPT FOR PEDESTAL AND STACKABLE UNITS).
3. INSTALLATION REQUIRES THE SPACES BETWEEN THE SIDES OF THE BOX AND THE STUDS AND THE SPACES IMMEDIATELY ABOVE THE BOX TO BE TIGHTLY PACKED WITH GLASS FIBER BATT OR MINERAL WOOL BATT INSULATION. REFER TO UL INSTALLATION DETAILS FOR ADDITIONAL INFORMATION.
4. INSTALL 16 GA. STEEL SHIELD PLATES AT THE FINISHED FACE OF FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING. SHIELD PLATES SHALL EXTEND 2" ABOVE SOLE PLATES AND 2" BELOW TOP PLATES.

4 DRYER EXHAUST WALL BOX DETAIL
SCALE: N.T.S.

NOTES:
1. TAPES AND MASTICS USED TO SEAL FIBROUS GLASS DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181 A-P" FOR PRESSURE-SENSITIVE TAPE, "181 A-M" FOR MASTIC, OR "181 A-H" FOR HEAT-SENSITIVE TAPE.
2. TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE-SENSITIVE TAPE, OR "181 B-M" FOR MASTIC.
3. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-C".

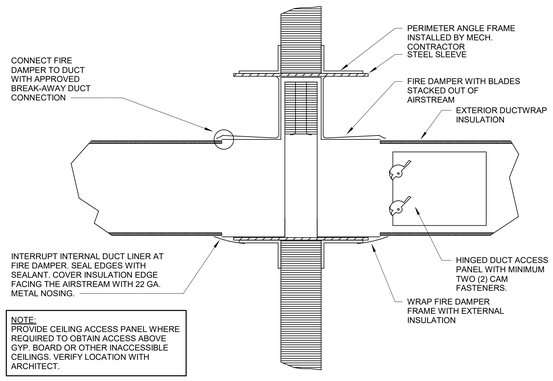
5 DWELLING UNIT FLEXIBLE DUCT TAKE OFF DETAIL
SCALE: N.T.S.



NOTE:
PROVIDE PRESSURE REGULATOR AT GENERATOR FOR MINIMUM SUPPLY PRESSURE AS REQUIRED BY MANUFACTURER.

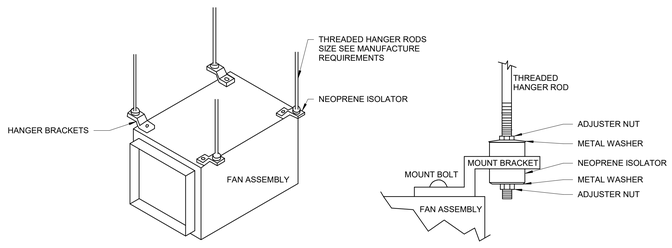
NOTE:
GAS METER AND REGULATOR BY LOCAL GAS COMPANY: ALL COSTS WILL BE INCURRED BY THE CONTRACTOR INCLUDING CONCRETE, PAD WHEN REQUIRED. THIS IS A TYPICAL INSTALLATION DRAWING. LOCAL CODES SHOULD BE REVIEWED FOR REQUIREMENTS SPECIFIC TO LOCALITY

14 GAS METER DETAIL
SCALE: N.T.S.

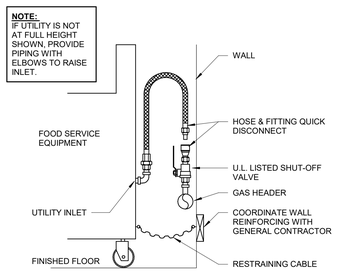


NOTE:
PROVIDE CEILING ACCESS PANEL WHERE REQUIRED TO OBTAIN ACCESS ABOVE GYP. BOARD OR OTHER INACCESSIBLE CEILINGS. VERIFY LOCATION WITH ARCHITECT.

3 FIRE DAMPER DETAIL
SCALE: N.T.S.



7 NEOPRENE HANGING ISOLATOR DETAIL
SCALE: N.T.S.



11 GAS CONNECTION TO KITCHEN EQUIPMENT
SCALE: N.T.S.

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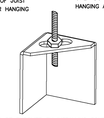
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1/2" DIA. ALL THREAD ROD CONNECTED TO ROOF JOIST THROUGH ANOTHER HANGING ANGLE

1/2" DIA. HEAVY DUTY NUT ONE ABOVE AND TWO BELOW HANGING ANGLE



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY ND2	150	200	250
WITH VERTICAL END PANELS	105	140	175
SLOPED SND-2	228	294	–
ISLAND ND-2WI	269	300	350
NDI	346	422	475

ETL HOOD LISTING DETAIL

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM(V)}}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

ETL LISTED #3054804-001 & #3054804-002
Listed under ETL File number 3054804-001/002

STANDARD 710

BUILT IN ACCORDANCE WITH NFPA No. 96

BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

INSTALLATION

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
5. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SEISMIC RESTAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

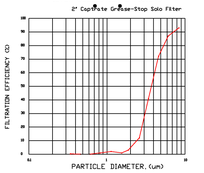
ADDITIONAL

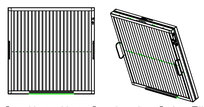
14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED FROM THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

GENERAL NOTES

FILTER COLLECTION EFFICIENCY

2" Captrate Grease-Stop Solo Filter





Captive-Aire Captrate Solo Filter
ETL Listed Grease Extracting Filters
Made From 430 Stainless Steel

FILTER DETAIL

HOOD INFORMATION – JOB#8470619

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	KH-1	6024 ND-2-PSP-FS	CAPTIVEAIRE	13' 0"	600 DEG	I	HEAVY	275	3575			4"	14"	1787	1672	-0.842"	2950	430 SS WHERE EXPOSED	ALONE	ALONE
2	KH-2	5424 ND-2-PSP-FS	CAPTIVEAIRE	13' 0"	600 DEG	I	HEAVY	227	2950			4"	14"	1787	1672	-0.842"				
												4"	14"	1475	1380	-0.573"	2950	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	14"	1475	1380	-0.573"				

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINETS LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH-1	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO							YES	834 LBS
2	KH-2	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO							YES	809 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 168.00" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 122.00" HIGH X 54.00" LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		BALANCE DAMPERS.
2	KH-2	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 168.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 122.00" HIGH X 54.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		BALANCE DAMPERS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	KH-1	Front	157"	14"	6"	MUA	12"	28"		650	0.161"
						MUA	12"	28"		650	0.161"
		Left	74"	16"	6"	MUA	12"	20"		500	0.138"
						MUA	12"	20"		500	0.138"
2	KH-2	Front	157"	14"	6"	MUA	12"	28"		650	0.161"
						MUA	12"	28"		650	0.161"
						MUA	12"	28"		650	0.161"
		Right	68"	16"	6"	MUA	12"	20"		500	0.138"
						MUA	12"	20"		500	0.138"

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
1	WALL MNT	12"x78"x30"	TANK FS	4.0/4.0/4.0/4.0	DCV-1111	1 LIGHT 1 FAN	540.00 LBS

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

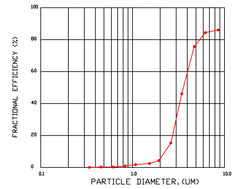
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

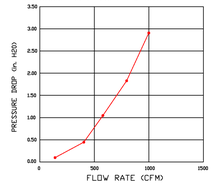
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

FOR QUESTIONS, CALL THE
Western TN and MS Mechanical
REGION 74
PHONE: (901) 480-4443
EMAIL: reg74@captiveaire.com

REVISIONS

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Harding Place Retirement (Searcy AR)
Searcy, AR, 72143

DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1

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architecture
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memphis, tn 38111
901.303.8255

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CSA ENGINEERING PROJECT NO: 25206
Chad Stewart & Associates, Inc.
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Phone 901-360-7050
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JOB NUMBER

25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Kitchen Equipment Details - Mechanical

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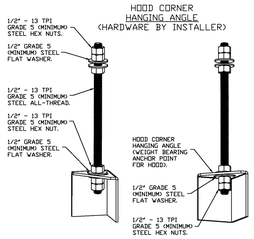
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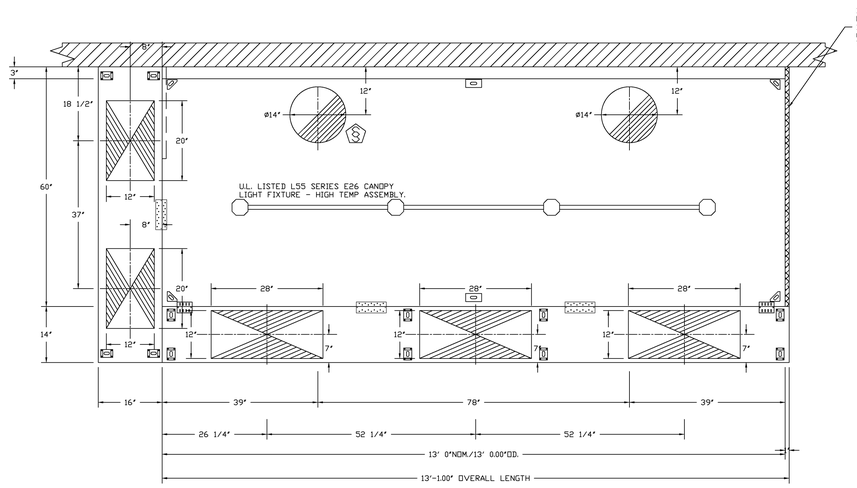
M5.01

HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)



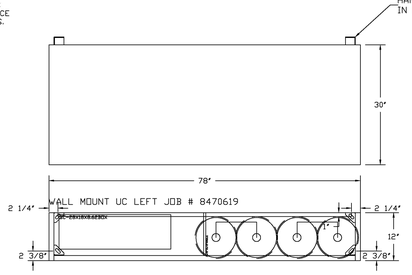
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



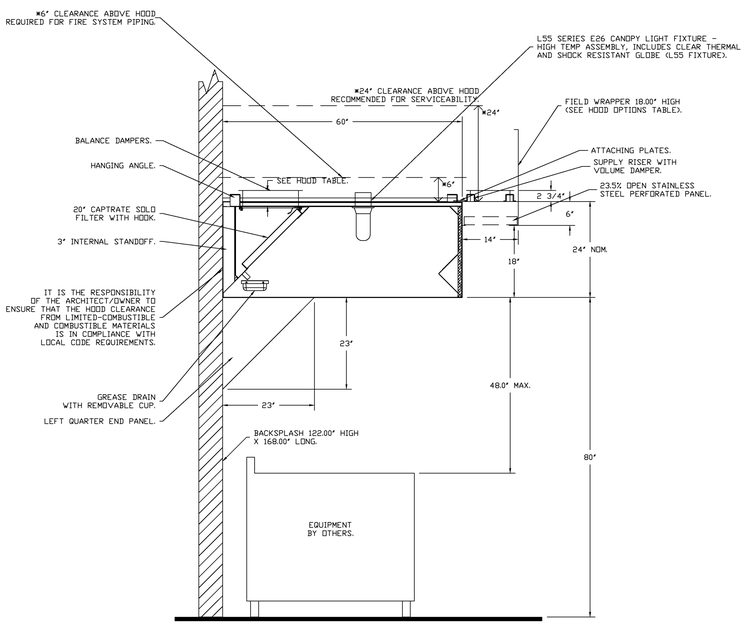
PLAN VIEW - HOOD #1 (KH-1)
13' 0.00" LONG 6024ND-2-PSP-FS

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



VERIFY HOOD ORIENTATION

Verify Hood Orientation to Ensure Piping, Structural Obstructions and Walls are Considered



SECTION VIEW - MODEL 6024ND-2-PSP-FS
HOOD - #1 (KH-1)

*** NOTE ***

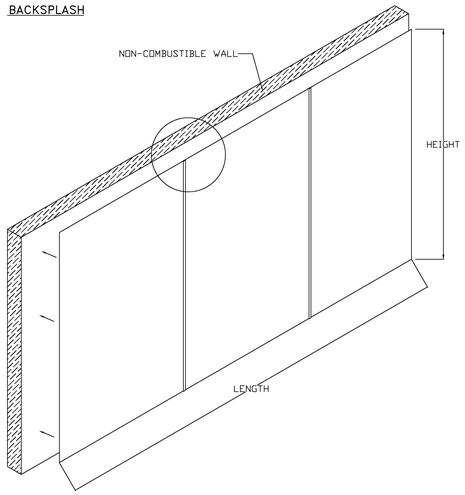
ALL WALLS AND STRUCTURES THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD NOT ALLOWED

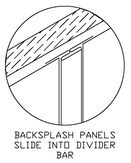
CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	0"
2	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	18"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.

BACKSPLASH





BACKSPLASH PANELS SLIDE INTO DIVIDER BAR

- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

REVISIONS

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Harding Place Retirement (Searcy AR)
Searcy, AR, 72143

DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 3/4" = 1'-0"

MASTER DRAWING

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Kitchen Equipment Details - Mechanical

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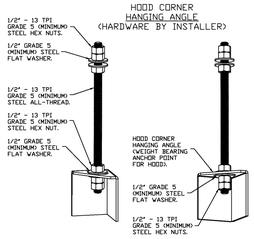
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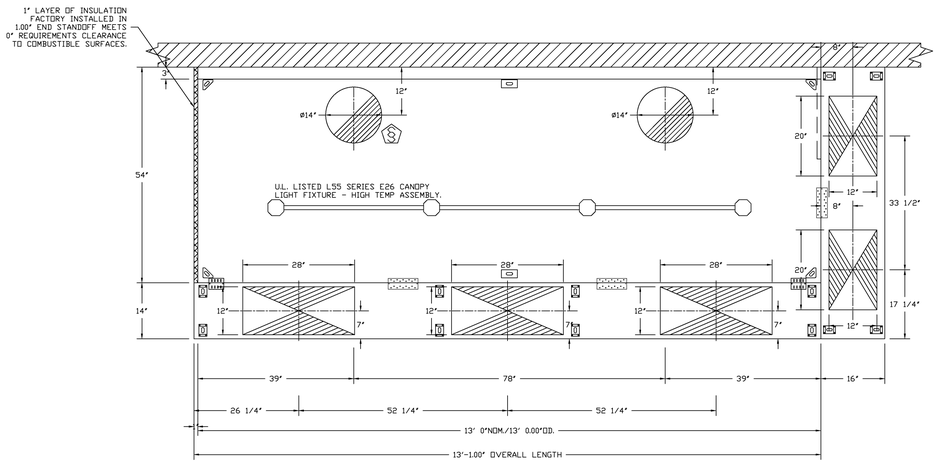
DRAWING NUMBER

M5.02



ASSEMBLY INSTRUCTIONS

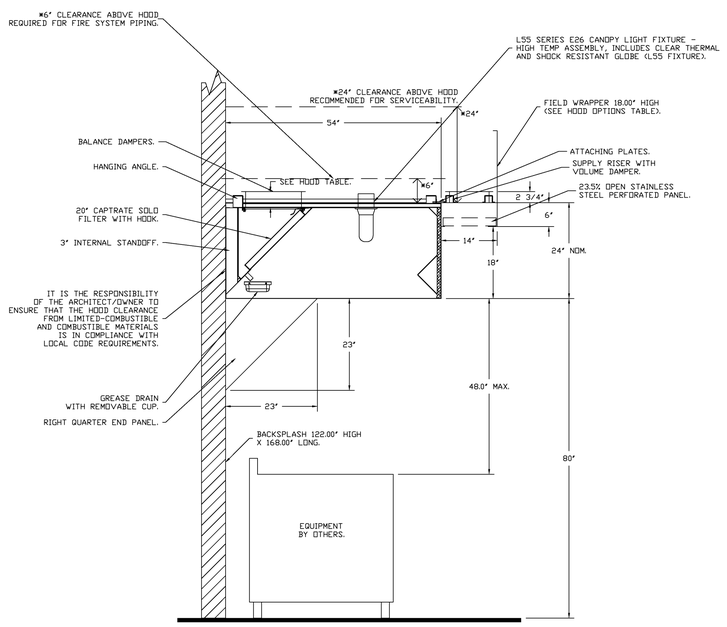
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PLAN VIEW - HOOD #2 (KH-2)
13' 0.00" LONG 5424ND-2-PSP-FS
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

VERIFY HOOD ORIENTATION

Verify Hood Orientation to Ensure Piping, Structural Obstructions and Walls are Considered



SECTION VIEW - MODEL 5424ND-2-PSP-FS
HOOD - #2 (KH-2)

*** NOTE ***

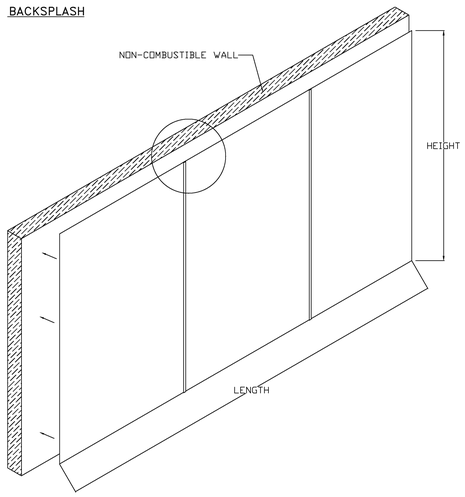
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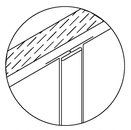
CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	0"
2	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	18"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.

BACKSPLASH





BACKSPLASH PANELS SLIDE INTO DIVIDER BAR

- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

REVISIONS

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△		
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DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 3/4" = 1'-0"

MASTER DRAWING

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Kitchen Equipment Details - Mechanical

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Design Development

DRAWING NUMBER

M5.03

FIRE SYSTEM INFORMATION – JOB#8470619

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	TANK-FS	TANK FS	4.0/4.0/4.0/4.0	80	79	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	TANK-FS	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS
1	TANK-FS	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

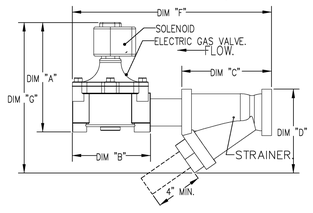
GAS VALVES AND STRAINERS

	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 →	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7–5/8"	6–3/8"	7–1/4"	7–13–16"	15–5/8"	13–15/16"	HORIZONTAL/VERTICAL	B214280	44176K68	(SC)EGVA2

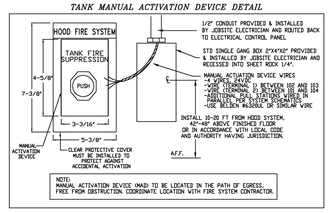
ELECTRIC GAS VALVES ONLY-SOLENOID ORIENTATION
3/4"–2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL
2 1/2"–3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
240G GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

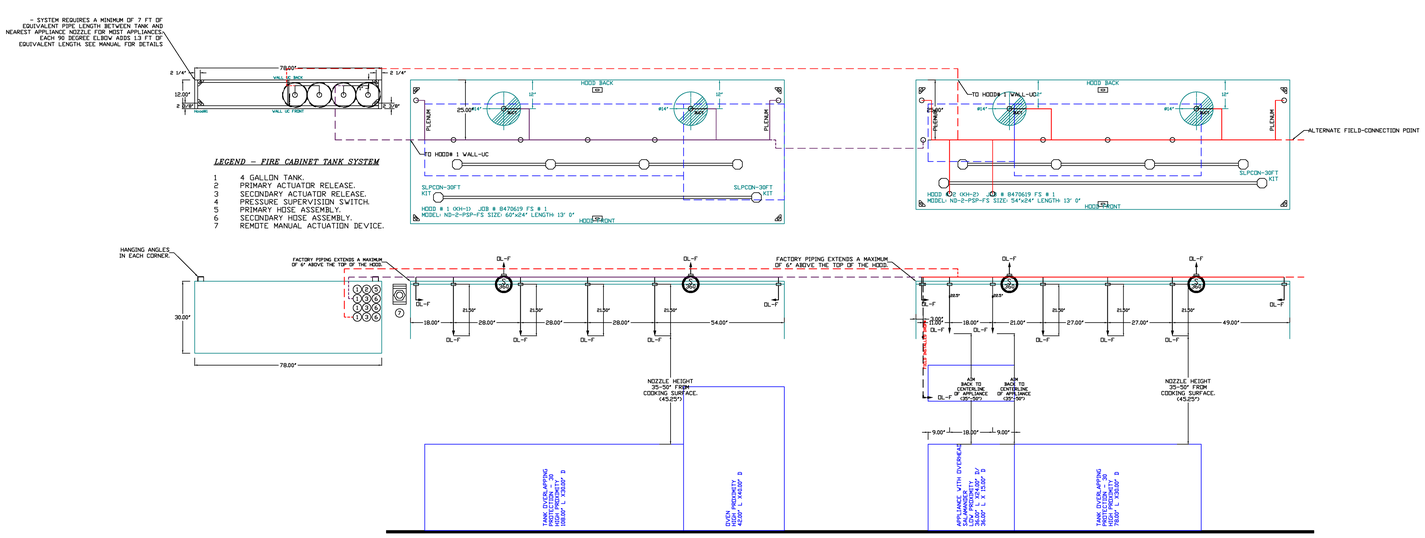
ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$



TANK MANUAL ACTIVATION DEVICE DETAIL





LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

NOTES
- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 8470619.
JOB NAME: HARDING PLACE RETIREMENT (SEARCY AR).

SYSTEM SIZE: TANK-SP-4-WC DESIGN FP: 79, MAXIMUM FP: 80.
HOOD # 1 13' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" DIA.
RISER # 2 SIZE: 14" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 13' 0.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" DIA.
RISER # 2 SIZE: 14" DIA.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

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Harding Place Retirement (Searcy AR)
Searcy, AR. 72143

DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 3/8" = 1'–0"

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE
801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Kitchen Equipment Details - Mechanical

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EXHAUST FAN INFORMATION – JOB#8470619

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	USBI36DD-RM	CAPTIVEAIRE	6525	2.500	744	TEFC,PREMIUM	7.500	4.442Ø	3	208	24.5	1063 FPM	1630	28.7

DOAS/RTU FAN SCHEDULE – JOB#8470619

			FAN INFORMATION							ELECTRICAL INFORMATION					COOLING INFORMATION										GAS HEAT INFORMATION					A2L MINIMUM ROOM VOLUME			
															OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY											
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	TOTAL CFM	MAX OUTSIDE AIR CFM	RETURN AIR CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.	IEER	ISMRE2	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	ROOM AREA (FT2)	AIRFLOW (CFM)	HEIGHT (FT)	NOTES
2	MAU-1	1	CAS-HVAC3-1.685-24-20T-MPU	CAPTIVEAIRE	24MF-3-RTU	5900	5900	0	2835	0.750	10.00	3	208	103.1A	125A	92.7°F	81.6°F	92.7°F	81.6°F	71.7°F	71.6°F	71.5°F	254.4 MBH	135.7 MBH	18.2	7.9	NATURAL	502120	406717	58°F	7 IN. W.C. – 14 IN. W.C.	558	1004	7.2	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 12:1 TURNDOWN WITH NG AND 10:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. 0°F LOW AMBIENT OPERATION
14. FACTORY INSTALLED COMPRESSOR SOUND BLANKET
15. SIDE DISCHARGE/NO RETURN
16. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
17. SCCR RATING OF 10kAMP

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1	KEF-1		80 LBS	CURB	51.000"W X 62.000"L X 20.000"H 1.000:12.000 PITCH ALONG WIDTH, RIGHT VENTED.
2	# 2	MAU-1	4.3	122 LBS	CURB	59.500"W X 91.000"L X 18.000"H 1.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.

1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULC,ASTM, & ASHRAE STANDARDS.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	BI36 – INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 30" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	BI36 – 24" DISCHARGE EXTENSION
		1	BI – DISCHARGE ORIENTATION VERTICAL UPPER LEFT – CW INLET SIDE
		1	BI36 – INLET CONNECTION STANDARD 30" FLANGED GREASE DUCT
		1	CURB MOUNTED SLED FOR USBI 36. USED TO MOUNT ON 62" L X 51" W CURB
		1	FIRE STAT (360 DEGREE) MOUNTED IN EXHAUST FAN. FOR SIF FANS, MOUNT STAT ON BACK POST OPPOSITE THE DISCONNECT, ABOVE THE COOLING TUBE
		1	UTILITY SET – FAN SLED RESTRAINED SPRING VIBRATION ISOLATORS – BI24 THRU BI36 / EQUIVALENT SIZED UTILITY SET – INDOOR/OUTDOOR USE (SET OF 6)
		1	2 YEAR PARTS WARRANTY
2	MAU-1	1	INLET PRESSURE GAUGE, 0–35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 2 FURNACES
		1	HIGH TURNDOWN OPTION FOR PARAGON UNITS
		1	COOLING OVERRIDE
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	RTU BLOWER DOOR SWITCH
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	TOTAL CFM MONITORING
		1	VFD FACTORY MOUNTED AND WIRED IN RTU COMMERCIAL CONTROL VESTIBULE
		1	20 TON MODULATING COOLING OPTION, 208/230V. R454B REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	LOW AMBIENT COOLING OPERATION – DOWN TO 0F AMBIENT
		1	R454B LEAK DETECTOR OPTION FOR RTUS
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	RTU3 SIDE DISCHARGE
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	INTAKE FIRESTAT SET TO 135°F
		1	RTU3 NO RETURN – 100% OA – MPU
		1	2" METAL MESH FILTERS FOR RTU3 OUTDOOR INTAKE
		1	CASLINK BUILDING MONITORING SYSTEM – INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU3 CURB DUCT HANGER
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK – ALARM SUPPLIED BY OTHERS
		1	SHIP LOOSE GAS STRAINER 1"
		1	NO REHEAT
		1	RTUVZH117 COMPRESSOR SOUND BLANKET 230V – FACTORY INSTALLED
		1	VAV PACKAGE W/ 0-10VDC INPUT CONTROL (571 VFD INCLUDED)
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

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Searcy, AR, 72143

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DRAWN BY: mmoore74

SCALE: 3/4" = 1'-0"

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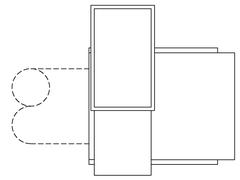
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FAN #1 USBI36DD-RM-S - EXHAUST FAN (KEF-1)



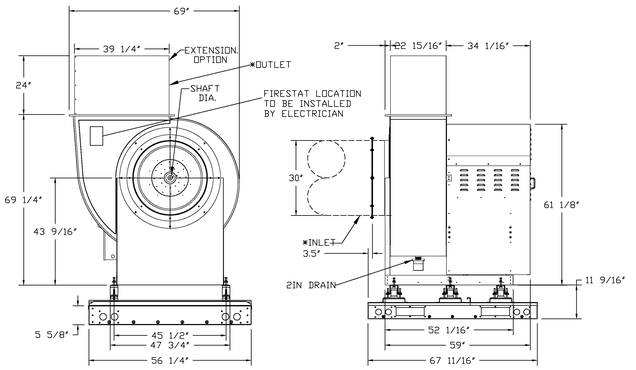
TOP VIEW

FEATURES:
- CURB MOUNTED FANS WITH VIBRATION ISOLATOR
- FULL PERIMETER CURB
- LIFTING HOOK POCKETS ON ALL SIDES
- UL705
- UL762 & ULC-S645 (RESTAURANT MODEL)
- HEAT SLINGER
- GREASE CLASSIFICATION TESTING
- 2" DRAIN
- MOTOR WEATHER COVER
- FULLY SEALED SCROLL HOUSING
- SCROLL ACCESS DOOR
- FLANGE 2" - 24 THRU 36

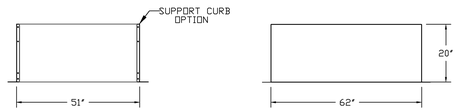
NORMAL TEMPERATURE TEST DIRECT DRIVE
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 350°F (176°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

OPTIONS

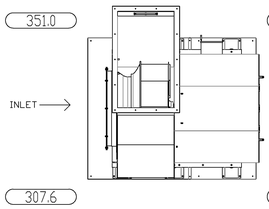
- BI36 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 30" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
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- BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
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- FIRE STAT (360 DEGREE) MOUNTED IN EXHAUST FAN. FOR SIF FANS, MOUNT STAT ON BACK POST OPPOSITE THE DISCONNECT, ABOVE THE COOLING TUBE.
- UTILITY SET - FAN SLED RESTRAINED SPRING VIBRATION ISOLATORS - BI24 THRU BI36 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE (SET OF 6).
- 2 YEAR PARTS WARRANTY.



(6) ISOLATORS = USBI18 THRU 36



* INLET NOTES:
LENGTH OF THE STRAIGHT DUCT ON THE INLET TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER BEFORE CONNECTING TO ANY FITTINGS SUCH AS ELBOWS TO AVOID SYSTEM EFFECT.



CORNER WEIGHTS ARE CALCULATED BASED ON VERTICAL DISCHARGE. SUPPORT DUCT PROPERLY BEFORE FAN TO ENSURE CORNER WEIGHTS ARE NOT AFFECTED.

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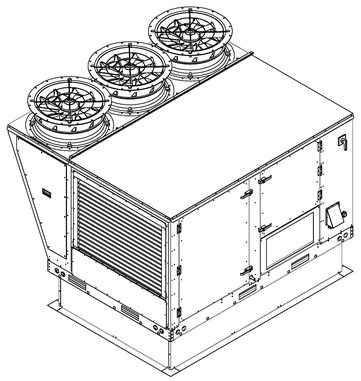
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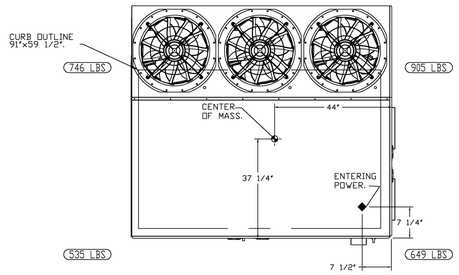
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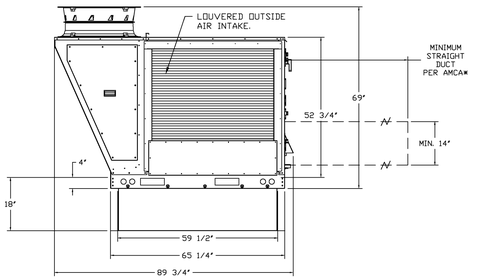
FAN #2 CAS-HVAC3-I685-24MF-20T-MPU - HEATER (MAU-1)

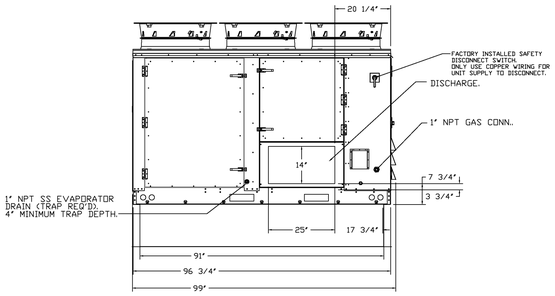
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
5. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

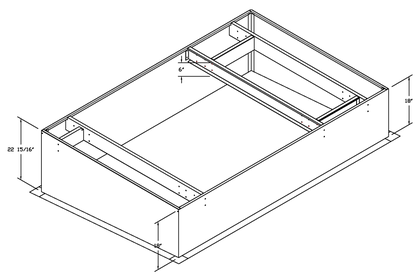
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED SUPPLY STRAIGHT DUCT SIZE IS 25" x 14".

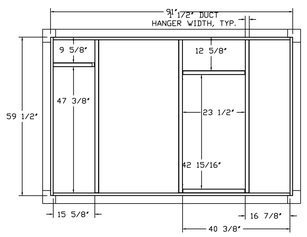


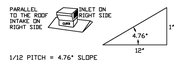




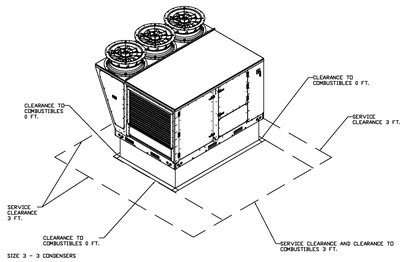






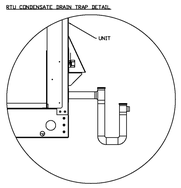


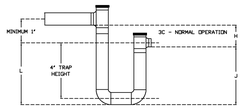
1/12 PITCH = 4.76" SLOPE



SIZE 3 - 3 CONDENSERS

RTU CONDENSATE DRAIN TRAP DETAIL



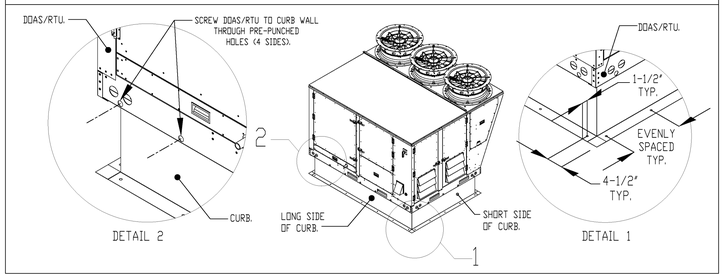


H = 12" (FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1"
J = HALF OF H
L = H + J + PIPE DIAMETER + INSULATION

TYPICAL DOAS/RTU ROOF MOUNTING INSTALLATION INSTRUCTIONS

1. SECURE THE CURB TO THE ROOF FRAMING MEMBERS BY DRILLING 1/4" PILOT HOLES IN THE CURB FLANGES AT LOCATIONS SHOWN IN THE DIAGRAM BELOW. USING 3/8" X 2" ZINC PLATED STEEL LAG BOLTS, AND ZINC PLATED WASHERS, SCREW THROUGH THE CURB FLANGES AND INTO THE ROOF FRAMING MEMBERS. A MINIMUM OF (5) LAG BOLTS ON EACH SHORT SIDE, AND (7) LAG BOLTS ON EACH LONG SIDE IS REQUIRED.

2. SECURE THE UNIT BASE TO THE SIDE WALLS OF THE CURB USING (24) 1/4"-14 X 2" SELF-DRILLING, STEEL ZINC PLATED SCREWS. PRE-PUNCHED HOLES HAVE BEEN PROVIDED FOR EACH SCREW LOCATION.



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Harding Place Retirement (Searcy AR)
Searcy, AR, 72143

DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 1/2" = 1'-0"

MASTER DRAWING

SHEET NO. 7

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81 tillman street
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CSA ENGINEERING PROJECT NO. 25206
Chad Stewart & Associates, Inc.
9720 Village Circle
Lakeland, TN 38002
Phone 901-360-7090
www.CSAengineeringinc.com

JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Kitchen Equipment Details - Mechanical

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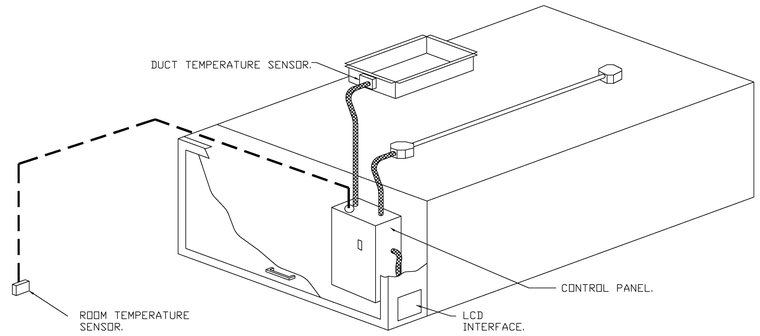
M5.07

ELECTRICIAN NOTES :

All Hood/Fan/DCV electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote fire system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package.
Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician.

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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Kitchen Equipment Details - Mechanical

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M5.08

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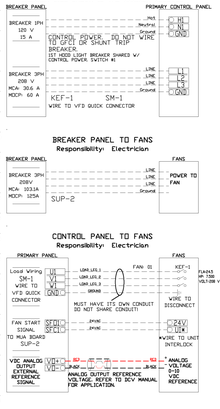
ELECTRICAL PACKAGE – JOB#8470619

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1	DCV-1	DCV-1111	WALL UTILITY CABINET LEFT	FACE MOUNT RIGHT SIDE OF HOOD	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	7.500	208	24.5
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	10.000	208	27.0

JOB NO 8470619 | MODEL NUMBER DCV-1111 | JOB NAME Harding Place Retirement -Se... | DRAWN BY | DATE 2/4/2026 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-1

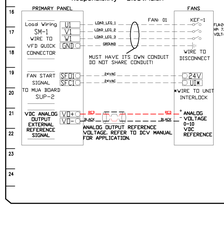
DESCRIPTION OF OPERATION:
Smoart Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature, INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensors shipped loose for field installation/factory advance between VFD and Motor; additional cost could apply if distance exceeds 30 Feet.

BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

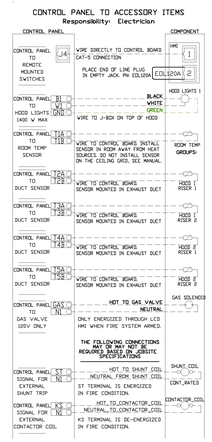


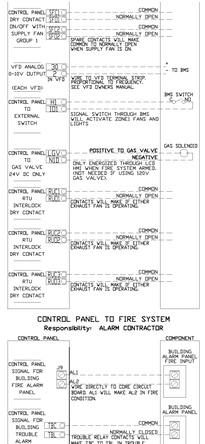
BREAKER PANEL TO FANS
Responsibility: Electrician

CONTROL PANEL TO FANS
Responsibility: Electrician

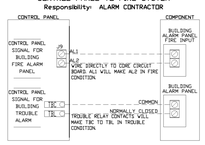


CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician





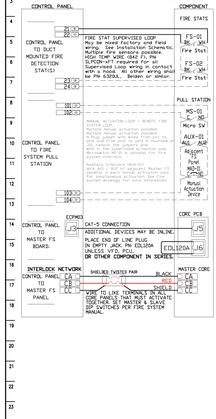
CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR



JOB NO 8470619 | MODEL NUMBER DCV-1111 | JOB NAME Harding Place Retirement -Se... | DRAWN BY | DATE 2/4/2026 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-2

DESCRIPTION OF OPERATION:
Smoart Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature, INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensors shipped loose for field installation/factory advance between VFD and Motor; additional cost could apply if distance exceeds 30 Feet.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER



JOB NO 8470619 | MODEL NUMBER DCV-1111 | JOB NAME Harding Place Retirement -Se... | DRAWN BY | DATE 2/4/2026 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-3

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/44/62/64 ITANK-FS1 Tank-based Fire Protection System equipped with Electronic Detection/Releasing CORE board as a Listed Release Mechanism. Included in Wall Mounted 1000y Cabinet with integral hood powered panel.

WALL MOUNT UTILITY CABINET TANK PROTECTION ELECTRICAL DETAIL

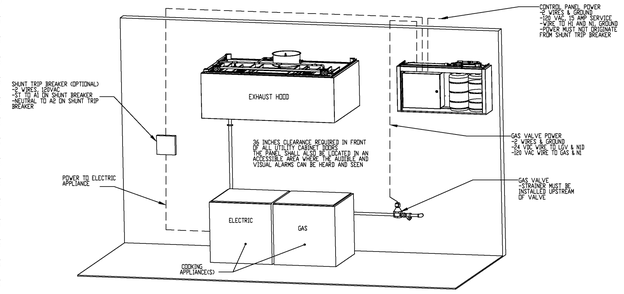
10/01/2023 Rev. 03

FS-1: MASTER

ELECTRICIAN
1. WIRE MAIN POINTER PANEL PER ENCLOSED SCHEMATIC
2. WIRE DUCT TEMP SENSOR PER MANUAL
3. WIRE 24VAC FEED TO SOLENOID(S)
4. WIRE 120V APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UBS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUL AUX	SOLENOID	120 VAC	< 6 AMPS	120V TO AUL AUX TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & NGV (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 10 AMPS	IF 24 VDC - 3 WIRES & GROUND NGI TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO 8470619 | MODEL NUMBER DCV-1111 | JOB NAME Harding Place Retirement -Se... | DRAWN BY | DATE 2/4/2026 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-4

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 42/44/62/64 ITANK-FS1 Tank-based Fire Protection System equipped with Electronic Detection/Releasing CORE board as a Listed Release Mechanism. Included in Wall Mounted 1000y Cabinet with integral hood powered panel.

WALL MOUNT UTILITY CABINET TANK PROTECTION LOW-VOLTAGE DETAIL

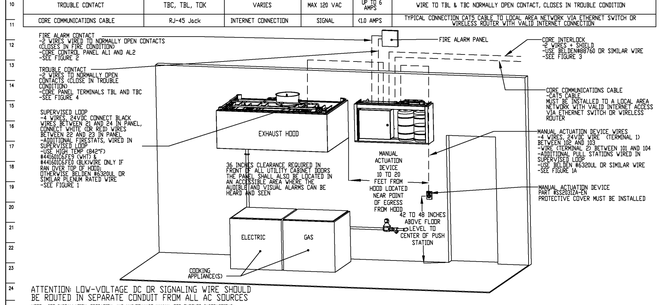
10/01/2023 Rev. 3

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 10 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED 2 STORAGE MODELS USE COVER EXTENDER 211-00018
REMOTE FIRESTAT SENSOR(S)	01 AND 24 03 AND 03	BLACK AND WHITE	24 VDC	< 10 AMPS	WIRE FIRE SENSOR BLACK WIRE BETWEEN CORE PANEL TERMINALS 01 AND 24 WIRE FIRE SENSOR BLACK WIRE BETWEEN CORE PANEL TERMINALS 03 AND 24 HIGH-TEMP (84472) 84450SSFE5 (411') & 84450SSCFE5 (411'WIRE IN SIMILAR DUCT OF SAME OF HOOD STRETCHED BETWEEN MOUNTS OR SIMILAR RATED WIRE. SEE FIGURE 1
FIRE ALARM CONTACT	ALI, ALZ	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM 01 CA TO CORE SYSTEM 02 CA, CORE SYSTEM 01 CB TO CORE SYSTEM 02 CB, CORE SYSTEM 01 CC TO CORE SYSTEM 02 CC USE BELDEN 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

REVISIONS

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ELECTRICIAN NOTES :

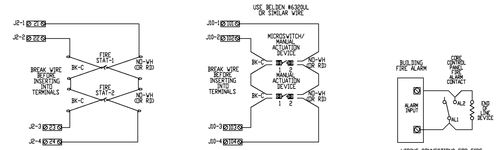
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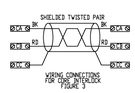
DESCRIPTION OF OPERATION:

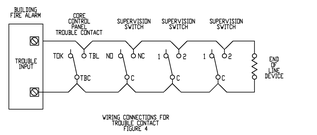
10/01/2023 Rev. 17

TOTAL PROTECTION LOW-VOLTAGE FIGURES

FS-1: MASTER

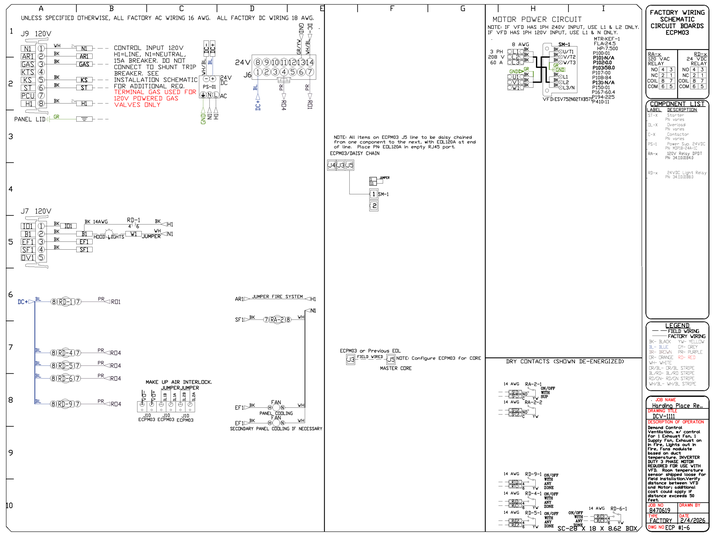






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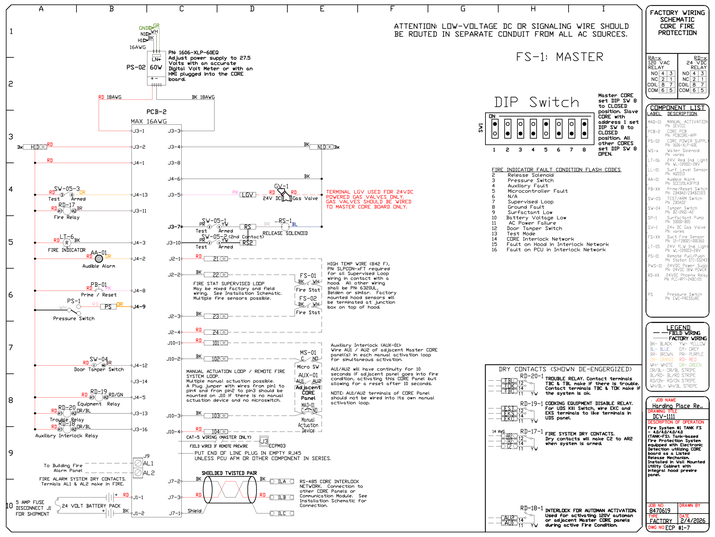


FACTORY WIRING SCHEMATIC CIRCUIT BOARDS ECPM03

COMPONENT LIST

LEGEND

Harding Place Re.
JOB NAME
DCV-111
DESCRIPTION OF OPERATION
Demand Control Ventilation, w/ control of (1) Make Up Air Unit, (1) Supply Fan Exhaust, on (1) Exhaust Fan, with Fire, Fans modulate with Space temperature, Exhaust Fan duty 3 speed motor controlled by VFD with VFD. Room temperature sensor shipped loose for field installation within distance between VFD and factory supplied 50' cable. Maximum distance exceeds 50 feet.
JOB NO.
8470619
DRAWN BY
MM
FACTORY
2/4/2026
CHG NO
ECP #1-6



FACTORY WIRING SCHEMATIC CORE FIRE PROTECTION

COMPONENT LIST

LEGEND

Harding Place Re.
JOB NAME
DCV-111
DESCRIPTION OF OPERATION
Fire System #1 THAN FS 1 MASTER
(TYPE-FS) Type-based, Fire System #1 is equipped with Electronic Control Panel (ECP) with a Listed Release Actuator, Fusible Link, Surface Mounted Utility Cabinet with integral hood preare alarm.
JOB NO.
8470619
DRAWN BY
MM
FACTORY
2/4/2026
CHG NO
ECP #1-7

REVISIONS	
DESCRIPTION	DATE:
△	
△	
△	
△	

CAPTIVE-AIRE

www.captiveaire.com

Western TN and MS Mechanical

PO Box 38042, Germantown, TN, 38183 PHONE: (901) 480 - 4443 FAX: 9192275996 EMAIL: reg74@captiveaire.com

Harding Place Retirement (Searcy AR)

Searcy, AR, 72143

DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 10

designshop
architecture
81 tillman street
memphis, tn 38111
901.303.8255

SEAL:

NOT FOR CONSTRUCTION FOR REVIEW ONLY

CSA ENGINEERING PROJECT NO. 25206

Chad Stewart & Associates, Inc.
9720 Village Circle
Lakeland, TN 38002
Phone 901-260-7050
www.CSAengineerings.com

JOB NUMBER

25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Kitchen Equipment Details - Mechanical

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DATE

13 FEB. 2026

PHASE

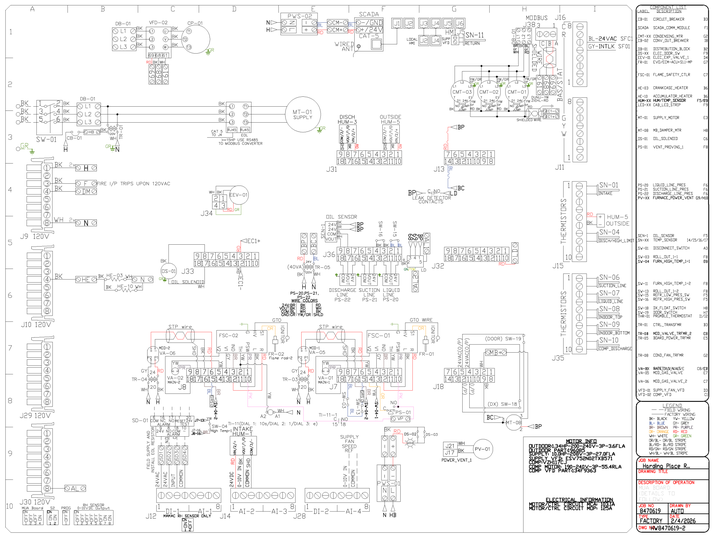
Design Development

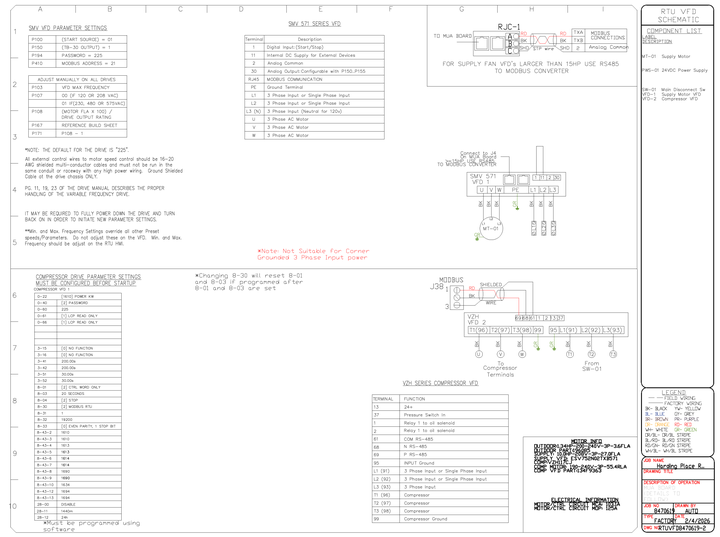
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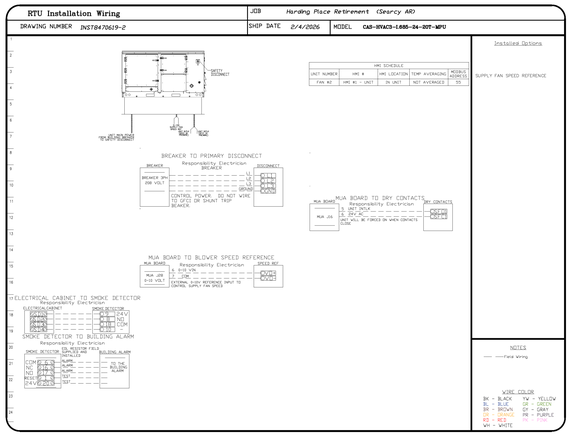
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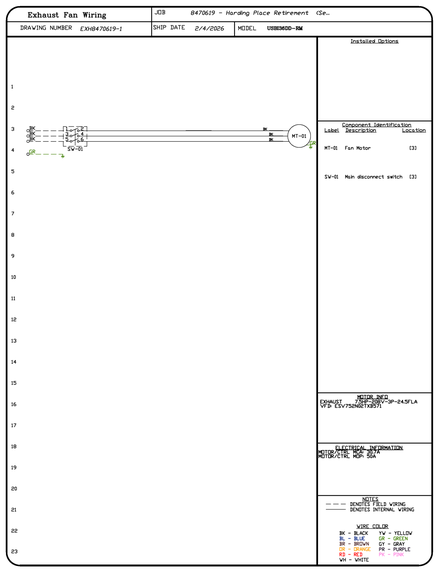
ELECTRICIAN NOTES :

All Hood/Fan/DCV electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote fire system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package.
Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician.









REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

CAPTIVE-AIRE
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Western TN and MS Mechanical
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Harding Place Retirement (Searcy AR)
Searcy, AR, 72143

DATE: 2/4/2026

DWG.#: 8470619

DRAWN BY: mmoore74

SCALE: 3/4" = 1'-0"

MASTER DRAWING

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CSA ENGINEERING PROJECT NO. 25295
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Phone 901-360-7690
www.CSAengineerings.com

JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE
801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Kitchen Equipment Details - Mechanical

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DATE
13 FEB. 2026
PHASE
Design Development
DRAWING NUMBER
M5.11

INTAKE VENTILATOR SCHEDULE

MARK	DESCRIPTION	AIRFLOW DATA			DIMENSION DATA				BASIS OF DESIGN		
		AIRFLOW (CFM)	ESP (IN-WC)	THROAT VELOCITY (FPM)	THROAT AREA (SF)	CURB CAP LENGTH (IN)	CURB CAP WIDTH (IN)	OPENING	WEIGHT (LBS)	MFR.	MODEL	REMARKS

NOTES:
1. PROVIDE UNIT WITH GALVANIZED INSECT SCREEN
2. UNIT MATERIAL SHALL BE ALUMINUM.
3. PROVIDE WITH ROOF CURB. CONFIRM PITCH OF ROOF WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.

LOUVER SCHEDULE

MARK	DESCRIPTION	APPLICATION	QTY	DIMENSION DATA			AIRFLOW DATA				BASIS OF DESIGN		
				WIDTH (IN)	HEIGHT (IN)	FREE AREA (SF)	CFM	PRESSURE DROP (IN-WG)	FREE AREA VELOCITY (FPM)	BPWP (FPM)	MFR.	MODEL	REMARKS
IL-1	WIND DRIVEN RAIN INTAKE LOUVER	INTAKE	1	20	20	0.9	225	0.01	260	1260	GREENHECK	EHH-501	SEE NOTES.
IL-2	WIND DRIVEN RAIN INTAKE LOUVER	INTAKE	2	28	28	2	495	0.01	249	1260	GREENHECK	EHH-501	SEE NOTES.

NOTES:
1. PROVIDE LOUVER WITH INTEGRAL GALVANIZED BIRD SCREEN.
2. CUSTOM PAINT COLOR TO BE SELECTED BY ARCHITECT TO MATCH OTHER BUILDING FINISHES.
3. PROVIDE LOUVER WITH EXTENDED SILL.
4. PROVIDE 24VAC MOTORIZED DAMPER WITH END SWITCH INTERLOCKED WITH EF OPERATION. DAMPER SHALL BE FULLY OPEN WHEN EF IS RUNNING.
5. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE.

ELECTRIC UNIT HEATER SCHEDULE

MARK	AIRFLOW (CFM)	TOTAL HEATING CAPACITY (kW)	ELECTRICAL		BASIS OF DESIGN		REMARKS
			V/PH/HZ	MCA	MFR.	MODEL	
UH-1	245	5.0	208/3/60	13.9	MARKEL	J3455T	SEE NOTES.
UH-2	175	2.25	120/1/60	10.8	MARKEL	HF3325TD-RP	SEE NOTES.
UH-3	350	8.0	208/3/60	24.0	MARKEL	J3346T	SEE NOTES.
UH-4	175	1.0	120/1/60	12.5	MARKEL	E3323TD-RP	SEE NOTES.
UH-5	175	2.25	208/1/60	10.8	MARKEL	HF3325TD-RP	SEE NOTES.
UH-6	350	6.0	208/3/60	18.5	MARKEL	J3346T	SEE NOTES.
UH-7	350	6.0	208/3/60	18.5	MARKEL	J3346T	SEE NOTES.
UH-8	350	6.0	208/3/60	18.5	MARKEL	J3346T	SEE NOTES.
UH-9	350	6.0	208/3/60	18.5	MARKEL	J3346T	SEE NOTES.

NOTES:
1. PROVIDE 2-IN SEMI-RECESSED FRAME AND 14 GA. SECURITY FRONT COVER.
2. PROVIDE WITH INTEGRAL TAMPER-PROOF THERMOSTAT.
3. PROVIDE WITH CONCEALED FACTORY INSTALLED DISCONNECT SWITCH.

SEISMIC DESIGN SCHEDULE - SEISMIC DESIGN CATEGORY D,E,F

COMPONENT IDENTIFICATION	Ip = 1.0		Ip = 1.5	
	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7 REFERENCE
ROOF MOUNTED	RESTRAIN ALL (NOTE 1)	13.1.4.6	RESTRAIN ALL (NOTE 1)	13.1.4.6
FLOOR MOUNTED	RESTRAIN ALL (NOTES 1,2)	13.1.4.6	RESTRAIN ALL (NOTE 1)	13.1.4.6
WALL MOUNTED	RESTRAIN ALL (NOTES 1,2)	13.1.4.6	RESTRAIN ALL (NOTE 1)	13.1.4.6
COMPONENT SUPPORTS	RESTRAIN ALL (NOTE 1)	13.6.4	RESTRAIN ALL (NOTE 1)	13.6.4
SUSPENDED EQUIPMENT - INLINE W/ DUCT	RESTRAIN IF > 75 LBS (NOTE 3)	13.6.6	RESTRAIN IF > 75 LBS (NOTE 3)	13.6.6
SUSPENDED EQUIPMENT - NOT INLINE	RESTRAIN ALL (NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)	RESTRAIN IF > 3" (NOTE 4)	13.6.7.3	RESTRAIN IF > 1"	13.6.7.3
SUSPENDED NON-DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC, ETC.)	RESTRAIN ALL (NOTE 4)	13.6.7.3	RESTRAIN ALL	13.6.7.3
SUSPENDED PIPE ON TRAPEZE	RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT ≥ 10 LB/FT (NOTE 4)	13.6.7.3	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT ≥ 10 LB/FT	13.6.7.3
DUCTWORK	RESTRAIN IF ≥ 6 SF OR > 20LB/FT (NOTES 4,5)	13.6.6	RESTRAIN IF ≥ 6 SF OR > 20LB/FT (NOTE 5)	13.6.6
COMPONENT CERTIFICATION	NOT REQUIRED	13.2.2	REQUIRED (NOTE 6)	13.2.2

NOTES:
1. EQUIPMENT 20 LBS OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHT IS 400 LBS OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4-FT OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE AND CONDUIT CONNECTIONS ONLY.
4. SEE ASCE 7-16 FOR ROD HANGER LENGTH EXEMPTION RULES.
5. ALL DUCTWORK REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT THE TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD AND BUILDING OFFICIAL.

COMMON SPACE AIR HANDLING UNIT SCHEDULE

MARK	DESCRIPTION	SUPPLY FAN DATA				COOLING COIL	HEATING DATA		ELECTRICAL DATA			WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
		AIRFLOW (CFM)	ESP (IN-WC)	MIN. OA (CFM)	MOTOR HP	TOTAL (MBH)	TYPE	DERATED AUX. ELEC kW	V/PH/HZ	MCA	MOCP		MFR.	MODEL	
AHU-1-1	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	125	3/4	48	HEAT PUMP	14.4	208/1/60	93.9	100	155	GOODMAN	AMST48	SEE NOTES.
AHU-1-2	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	90	3/4	36	HEAT PUMP	2.3	208/1/60	19	20	130	GOODMAN	AMST36	SEE NOTES.
AHU-1-3	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	165	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.
AHU-1-4	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	115	3/4	36	HEAT PUMP	6.0	208/1/60	42	45	130	GOODMAN	AMST36	SEE NOTES.
AHU-1-5	DINING HALL AIR HANDLING UNIT	3750	0.75	800			HEAT PUMP		208/3/60						
AHU-1-6	DINING HALL AIR HANDLING UNIT	3750	0.75	800			HEAT PUMP		208/3/60						
AHU-1-7	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	95	3/4	36	HEAT PUMP	6.0	208/1/60	42	45	130	GOODMAN	AMST36	SEE NOTES.
AHU-1-8	DINING HALL AIR HANDLING UNIT	3000	0.75	695			HEAT PUMP		208/3/60						
AHU-1-9	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	70	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.
AHU-1-10	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	85	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.
AHU-2-1	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	80	3/4	36	HEAT PUMP	7.2	208/1/60	49	50	130	GOODMAN	AMST36	SEE NOTES.
AHU-2-2	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	95	3/4	36	HEAT PUMP	10.8	208/1/60	70.6	80	130	GOODMAN	AMST36	SEE NOTES.
AHU-2-3	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	75	3/4	36	HEAT PUMP	10.8	208/1/60	70.6	80	130	GOODMAN	AMST36	SEE NOTES.
AHU-2-4	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	135	3/4	48	HEAT PUMP	7.2	208/1/60	52	60	155	GOODMAN	AMST48	SEE NOTES.
AHU-2-5	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	90	3/4	36	HEAT PUMP	10.8	208/1/60	70.6	80	130	GOODMAN	AMST36	SEE NOTES.
AHU-2-6	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	85	3/4	36	HEAT PUMP	10.8	208/1/60	70.6	80	130	GOODMAN	AMST36	SEE NOTES.
AHU-3-1	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	105	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.
AHU-3-2	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	85	3/4	36	HEAT PUMP	7.2	208/1/60	49	50	130	GOODMAN	AMST36	SEE NOTES.
AHU-3-3	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	115	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.
AHU-3-4	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	125	3/4	48	HEAT PUMP	14.4	208/1/60	93.9	100	155	GOODMAN	AMST48	SEE NOTES.
AHU-4-1	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	90	3/4	36	HEAT PUMP	10.8	208/1/60	70.6	80	130	GOODMAN	AMST36	SEE NOTES.
AHU-4-2	3-TON SPLIT SYSTEM AIR HANDLING UNIT	1200	0.5	90	3/4	36	HEAT PUMP	10.8	208/1/60	70.6	80	130	GOODMAN	AMST36	SEE NOTES.
AHU-4-3	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	300	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.
AHU-4-4	4-TON SPLIT SYSTEM AIR HANDLING UNIT	1600	0.5	100	3/4	48	HEAT PUMP	10.8	208/1/60	72.1	80	155	GOODMAN	AMST48	SEE NOTES.

NOTES:
1. PROVIDE UNIT WITH DISCONNECT SWITCH.
2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
3. PROVIDE TXV AND FOIL FACE INSULATION.
4. FAN MOTOR SHALL BE DIRECT DRIVE ECM.
5. ELECTRICAL DATA IS FOR SINGLE POINT POWER CONNECTION.
6. CONTRACTOR SHALL PROVIDE AND INSTALL AUXILIARY DRAIN PAN WITH CONDENSATE SWITCH IN ACCORDANCE WITH IMC 307.2.3.1.
7. SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY & RETURN OF AIR SYSTEMS WITH A DESIGN AIRFLOW CAPACITY GREATER THAN 2000 CFM PER IMC 606.2.1
8. UNITS SHALL COMPLY WITH THE LATEST INFORCED EDITION OF ASHRAE 90.1 AND U.S. DEPARTMENT OF ENERGY 2023 ENERGY STANDARD FOR MINIMUM SEER REQUIREMENTS.
9. ALL HVAC EQUIPMENT INSTALLED AFTER JANUARY 1ST, 2025 SHALL MEET THE U.S. GOVT REQUIREMENTS FOR A2L REFRIGERANT. REFRIGERANT PIPING SHALL MEET ALL REQUIREMENTS OF ASHRAE 15 & 34 FOR A2L REFRIGERANTS.
10. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, DAIKIN, JCI, LENNOX, TRANE, YORK.

COMMON SPACE OUTDOOR HEAT PUMP SCHEDULE

MARK	DESCRIPTION	HEAT PUMP DATA							COMPRESSOR				ELECTRICAL			BASIS OF DESIGN		REMARKS
		TONS A/C	EFFICIENCY		COOLING		HEATING		STAGES	QTY	TYPE	REFR.	V/PH/HZ	MCA	MOCP	MFR.	MODEL	
			SEER	HSPF	AMBIENT (°F)	TOTAL (MBH)	AMBIENT (°F)	TOTAL (MBH)										
HP-1-1	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-1-2	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZT7CA36	SEE NOTES.
HP-1-3	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-1-4	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZT7CA36	SEE NOTES.
HP-1-5	DINING HALL SPLIT SYSTEM OUTDOOR UNIT	15											208/3/60					
HP-1-6	DINING HALL SPLIT SYSTEM OUTDOOR UNIT	15											208/3/60					
HP-1-7	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZT7CA36	SEE NOTES.
HP-1-8	DINING HALL SPLIT SYSTEM OUTDOOR UNIT	7.5											208/3/60					
HP-1-9	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-1-10	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-2-1	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZS4BA36	SEE NOTES.
HP-2-2	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZS4BA36	SEE NOTES.
HP-2-4	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-2-5	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZS4BA36	SEE NOTES.
HP-2-6	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZS4BA36	SEE NOTES.
HP-3-1	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-3-2	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZT7CA36	SEE NOTES.
HP-3-3	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-3-4	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-4-1	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZT7CA36	SEE NOTES.
HP-4-2	3-TON SPLIT SYSTEM OUTDOOR UNIT	3	17.5	8.2	95	36	47	36	2	1	SCROLL	R32	208/1/60	20.8	35	GOODMAN	GLZT7CA36	SEE NOTES.
HP-4-3	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.
HP-4-4	4-TON SPLIT SYSTEM OUTDOOR UNIT	4	17.5	8.2	95	48	47	48	2	1	SCROLL	R32	208/1/60	31.6	50	GOODMAN	GLZT7CA48	SEE NOTES.

NOTES:
1. OUTDOOR UNIT SHALL HAVE 2-STAGES OF COOLING FOR PART LOAD CONDITIONS.
2. UNIT SHALL HAVE METAL LOUVERS FOR CONDENSER COIL.
3. PROVIDE FREEZESTAT, START ASSIST, AND OUTDOOR AIR LOCKOUT THERMOSTAT.
4. PROVIDE UNITS WITH MANUFACTURER'S STANDARD PARTS WARRANTY(S).
5. INSTALL UNIT ON CONCRETE EQUIPMENT PAD.
6. ROUTE REFRIGERANT SUPPLY & RETURN LINES TO ASSOCIATED INDOOR UNITS PER MFR. RECOMMENDATIONS.
7. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, DAIKIN, JCI, LENNOX, TRANE, YORK.

DWELLING UNIT AIR HANDLING UNIT SCHEDULE (ELEC HEAT)

MARK	DESCRIPTION	SUPPLY FAN DATA				COOLING COIL	HEATING DATA		ELECTRICAL DATA			WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
		AIRFLOW (CFM)	ESP (IN-WC)	MIN. OA (CFM)	MOTOR HP	NOM. COOLING CAPACITY(MBH)	TYPE	AUX. ELEC. kW	V/PH/HZ	MCA	MOCP		MFR.	MODEL	
AHU-A	1.5-TON WALL MOUNTED AIR HANDLER	600	0.5	50	1/3	18	HEAT PUMP	5	208/1/60	24.9	25	85	GOODMAN	AWST18	SEE NOTES.
AHU-B	2-TON WALL MOUNTED AIR HANDLER	800	0.5	60	1/3	24	HEAT PUMP	5	208/1/60	24.9	25	85	GOODMAN	AWST24	SEE NOTES.
AHU-C	3-TON WALL MOUNTED AIR HANDLER	1200	0.5	85	1/2	36	HEAT PUMP	8	208/1/60	37.7	40	110	GOODMAN	AWST36	SEE NOTES.

NOTES:
1. PROVIDE UNIT WITH DISCONNECT SWITCH.
2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
3. PROVIDE TXV AND FOIL FACE INSULATION.
4. FAN MOTOR SHALL BE DIRECT DRIVE ECM.
5. ELECTRICAL DATA IS FOR SINGLE POINT POWER CONNECTION.
6. CONTRACTOR SHALL PROVIDE AND INSTALL AUXILIARY DRAIN PAN WITH CONDENSATE SWITCH IN ACCORDANCE WITH IMC 307.2.3.1.
7. SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY & RETURN OF AIR SYSTEMS WITH A DESIGN AIRFLOW CAPACITY GREATER THAN 2000 CFM PER IMC 606.2.1
8. UNITS SHALL COMPLY WITH THE LATEST INFORCED EDITION OF ASHRAE 90.1 AND U.S. DEPARTMENT OF ENERGY 2023 ENERGY STANDARD FOR MINIMUM SEER REQUIREMENTS.
9. ALL HVAC EQUIPMENT INSTALLED AFTER JANUARY 1ST, 2025 SHALL MEET THE U.S. GOVT REQUIREMENTS FOR A2L REFRIGERANT. REFRIGERANT PIPING SHALL MEET ALL REQUIREMENTS OF ASHRAE 15 & 34 FOR A2L REFRIGERANTS.
10. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, DAIKIN, JCI, LENNOX, TRANE, YORK.

DWELLING UNIT OUTDOOR HEAT PUMP SCHEDULE

MARK	DESCRIPTION	CONDENSER DATA				COMPRESSOR				ELECTRICAL			BASIS OF DESIGN		REMARKS
		TONS A/C	EFFICIENCY	COOLING		STAGES	QTY	TYPE	REFR.	V/PH/HZ	MCA	MOCP	MFR.	MODEL	
			SEER	AMBIENT (°F)	TOTAL (MBH)										
HP-A	SINGLE STAGE OUTDOOR CONDENSING UNIT	1.5	13.8	95	18	1	1	ROTARY	R32	208/1/60	11.2	15	GOODMAN	GLZS4BA18	SEE NOTES.
HP-B	SINGLE STAGE OUTDOOR CONDENSING UNIT	2	13.8	95	24	1	1	ROTARY	R32	208/1/60	11.2	15	GOODMAN	GLZS4BA24	SEE NOTES.
HP-C	SINGLE STAGE OUTDOOR CONDENSING UNIT	3	13.8	95	36	1	1	SCROLL	R32	208/1/60	21.5	35	GOODMAN	GLZS4BA36	SEE NOTES.

NOTES:
1. OUTDOOR UNIT SHALL HAVE 1-STAGES OF COOLING.
2. UNIT SHALL HAVE METAL LOUVERS FOR CONDENSER COIL.
3. PROVIDE FREEZESTAT, START ASSIST, AND OUTDOOR AIR LOCKOUT THERMOSTAT.
4. PROVIDE UNITS WITH MANUFACTURER'S STANDARD PARTS WARRANTY(S).
5. INSTALL UNIT ON CONCRETE EQUIPMENT PAD.
6. ROUTE REFRIGERANT SUPPLY & RETURN LINES TO ASSOCIATED INDOOR UNITS PER MFR. RECOMMENDATIONS.
7. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, DAIKIN, JCI, LENNOX, TRANE, YORK.

IN-LINE DUCT LINT INTERCEPTOR SCHEDULE

MARK	MFR.	MODEL	DESCRIPTION	MAX. CAPACITY (CFM)	S.P. @2500 CFM CLEAN (IN. WC.)	S.P. @ 2500 CFM DIRTY (IN. WC.)	INLET/OUTLET (IN.)	WEIGHT (LBS.)	REMARKS
LI-1	CLEAN CYCLE SYSTEMS	LLSB-14	STAINLESS STEEL IN-LINE DUCT LINT INTERCEPTOR	2500	0.08	0.25	14 / 16	60	SEE NOTES.

NOTES:
1. INSTALL VERICALLY IN AN ACCESSIBLE LOCATION.
2. PROVIDE FAN CONTROL PANEL INTERLOCKED WITH LAUNDRY DRYERS AND MFR. SUPPLIED OVER PRESSURE ALARM.
3. SEE LAUNDRY VENT DETAIL.

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JOB NUMBER
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HARDING PLACE

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Searcy, AR 72143

DRAWING NAME
Schedules - Mechanical

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FAN SCHEDULE

MARK	DESCRIPTION	CFM	ESP (IN-WC)	FAN RPM	DRIVE TYPE	MAX SONES	INTERLOCK	OPENING	ELECTRICAL DATA			WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
									OPERATING POWER (HP)	V/PH/HZ	FLA		MFR.	MODEL	
EF-1	CEILING EXHAUST FAN	50	0.5	710	DIRECT	1.5	LIGHTS	6"Ø	0.02	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-1-1	CEILING EXHAUST FAN	225	0.5	1099	DIRECT	3.0	TSTAT	8"Ø	0.04	115/1/60	1.42	33	GREENHECK	SP-A390	SEE NOTES.
EF-1-2	CEILING EXHAUST FAN	165	0.5	948	DIRECT	3.5	TSTAT	8"Ø	0.03	115/1/60	0.56	33	GREENHECK	SP-A250	SEE NOTES.
EF-1-3	CEILING EXHAUST FAN	50	0.5	710	DIRECT	1.5	-	6"Ø	0.02	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-1-4	CEILING EXHAUST FAN	225	0.5	1099	DIRECT	3.0	LIGHTS	8"Ø	0.04	115/1/60	1.42	33	GREENHECK	SP-A390	SEE NOTES.
EF-1-5	CEILING EXHAUST FAN	225	0.5	1099	DIRECT	3.0	LIGHTS	8"Ø	0.04	115/1/60	1.42	33	GREENHECK	SP-A390	SEE NOTES.
EF-1-6	INILINE CABINET EXHAUST FAN	495	0.5	856	DIRECT	2.5	TSTAT	18" X 8"	0.08	115/1/60	3.30	36	GREENHECK	CSP-A700	SEE NOTES.
EF-1-7	INILINE CABINET EXHAUST FAN	495	0.5	856	DIRECT	2.5	TSTAT	18" X 8"	0.08	115/1/60	3.30	36	GREENHECK	CSP-A700	SEE NOTES.
EF-2-1	CEILING EXHAUST FAN	50	0.5	710	DIRECT	1.5	-	6"Ø	0.02	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-2-2	CEILING EXHAUST FAN	75	0.5	803	DIRECT	1.5	LIGHTS	6"Ø	0.03	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-3-1	CEILING EXHAUST FAN	50	0.5	710	DIRECT	1.5	-	6"Ø	0.02	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-3-2	CEILING EXHAUST FAN	75	0.5	803	DIRECT	1.5	LIGHTS	6"Ø	0.03	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-4-1	CEILING EXHAUST FAN	50	0.5	710	DIRECT	1.5	-	6"Ø	0.02	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-4-2	CEILING EXHAUST FAN	75	0.5	803	DIRECT	1.5	LIGHTS	6"Ø	0.03	115/1/60	1.15	18	GREENHECK	SP-B110	SEE NOTES.
EF-5-1	ROOF MOUNTED UPBLAST EXHAUST FAN	880	0.75	1243	DIRECT	9.6	LAUNDRY CONTROL PANEL	16" SQ.	0.17	208/1/60	1.70	77	GREENHECK	CUE-120-VG	SEE NOTES.

NOTES:
1. PROVIDE FAN WITH ELECTRICAL DISCONNECT SWITCH.
2. EXHAUST FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. PROVIDE 24 V WALL TIMER SWITCH WITH 7-DAY USER PROGRAMMABLE SCHEDULE. FANS SHALL BE OFF DURING UNOCCUPIED HOURS.
3. EXHAUST FAN TO RUN INTERMITTENTLY. PROVIDE RELAY FOR INTERLOCKING EXHAUST FAN TO LIGHT SWITCH.
4. EXHAUST FAN TO RUN INTERMITTENTLY. PROVIDE RELAY FOR INTERLOCKING EXHAUST FAN TO LAUNDRY CONTROL PANEL. SEE DETAIL.
5. EXHAUST FAN TO RUN INTERMITTENTLY. PROVIDE RELAY FOR INTERLOCKING EXHAUST FAN TO ADJ. TSTAT.
6. PROVIDE CEILING EXHAUST FANS WITH BACKDRAFT DAMPER, HANGING VIBRATION & ISOLATION KIT, ROUND DUCT CONNECTION, GALV. STEEL SCROLL & HOUSING WITH ALUMINUM WHEEL, SPEED CONTROLLER, GRILLE KIT, MOUNTING BRACKETS, AND TRANSFORMER AS REQUIRED FOR INTERLOCKING.
7. PROVIDE ROOF MOUNTED EXHAUST FANS WITH BACKDRAFT DAMPER, SPEED CONTROLLER, MFR. PREFABRICATED INSULATED 18" HIGH ROOF CURB, AND TRANSFORMER AS REQUIRED FOR INTERLOCKING.

DUCTLESS SINGLE-ZONE SPLIT HEAT PUMP UNIT SCHEDULE

MARK	DESCRIPTION	NOMINAL TONS	EFFICIENCY		COOLING DATA		HEATING DATA		COMPRESSOR			ELECTRICAL DATA			MIN. WEIGHT (LBS)	BASIS OF DESIGN		REMARKS
			SEER2	HSPF2	AMBIENT (°F)	TOTAL (MBH)	AMBIENT (°F)	TOTAL (MBH)	TYPE	QTY	REFR	V/PH/HZ	MCA	MOCP		MFR	MODEL	
ODU-1-1	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-1-2	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-1-3	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-1-4	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-2-1	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-2-2	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-3-1	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-3-2	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.
ODU-4-1	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	1	18	9	95	9	47	9.4	INVERTER	1	R32	208/1/60	12.3	15	100	DAIKIN	RXM09WVJU9	SEE NOTES.

NOTES:
1. PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
2. ALL CAPACITIES ARE NET VALUES.
3. PROVIDE EQUIPMENT RAILS FOR MOUNTING ON ROOF.
4. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, DAIKIN, MITSUBISHI, YORK.

DUCTLESS SINGLE-ZONE SPLIT INDOOR UNIT SCHEDULE

MARK	DESCRIPTION	AIRFLOW (CFM)	COOLING DATA			HEATING CAP. (MBH)	CD SIZE (IN)	FILTER	ELECTRICAL DATA		BASIS OF DESIGN		REMARKS
			EAT DB (°F)	EAT WB (°F)	TOTAL CAP. (MBH)				V/PH/HZ	MCA	MFR.	MODEL	
IDU-1-1	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-1-2	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-1-3	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-1-4	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-2-1	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-2-2	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-3-1	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-4-1	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.
IDU-4-2	DUCTLESS SPLIT SYSTEM INDOOR UNIT	322	80	67	9	9.4	1-1/4"	WASHABLE	208/1/60	9.3	DAIKIN	FTXC09AXVJU	SEE NOTES.

NOTES:
1. PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
2. ALL CAPACITIES ARE NET VALUES.
3. PROVIDE CONDENSATE PUMP.
4. PROVIDE WATER LEVEL MONITORING DEVICE IN ACCORDANCE WITH IMC 307.2.3.1.
5. PROVIDE CONDENSATE OVERFLOW SWITCH, INTERLOCK WITH UNIT SHUTDOWN.
6. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS SHALL BE ACCEPTABLE INCLUDING CARRIER, MITSUBISHI, YORK.

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DRAWING NAME
Schedules - Mechanical

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PLUMBING FIXTURE SCHEDULE

MARK	MFR.	MODEL	PLUMBING FIXTURE DATA	WASTE	VENT	C.W.	H.W.	REMARKS
DF-1			COMMON AREA DRINKING FOUNTAIN.	1 1/2"	2"	1/2"	-	SEE NOTES.
DS-1			ROOF DRAIN DOWNSPOUT.	1 1/2"	-	-	-	SEE NOTES.
FD-1			AREA FLOOR DRAIN.	3"	2"	-	-	SEE NOTES.
GI-1			KITCHEN GREASE INTERCEPTOR.	4"	2"	-	-	SEE NOTES.
HD-1			AREA HUB DRAIN.	3"	2"	-	-	SEE NOTES.
IM-1			ICE MAKER OUTLET BOX.	-	-	1/2"	-	SEE NOTES.
L-1			RESIDENTIAL UNIT LAVATORY.	1 1/4"	2"	1/2"	1/2"	SEE NOTES.
L-2			RESIDENTIAL WALL MOUNTED LAVATORY.	1 1/4"	2"	1/2"	1/2"	SEE NOTES.
L-3			COMMON AREA LAVATORY.	1 1/4"	2"	1/2"	1/2"	SEE NOTES.
L-4			COMMON AREA WALL MOUNTED LAVATORY.	1 1/4"	2"	1/2"	1/2"	SEE NOTES.
LI-1			COMMON LAUNDRY WASTE LINT INTERCEPTOR.	4"	2"	-	-	SEE NOTES.
MS-1			MOP SINK.	3"	2"	1/2"	1/2"	SEE NOTES.
NFRH-1			NON FREEZE ROOF HYDRANT	-	-	1/2"	-	SEE NOTES.
NFWH-1			NON FREEZE WALL HYDRANT.	-	-	1/2"	-	SEE NOTES.
RD-1			PRIMARY ROOF DRAIN.	4"	-	-	-	SEE NOTES.
RD-2			SECONDARY ROOF DRAIN.	4"	-	-	-	SEE NOTES.
S-1			RESIDENTIAL KITCHEN SINK.	1 1/2"	2"	1/2"	1/2"	SEE NOTES.
SH-1			RESIDENTIAL SHOWER PAN AND TRIM.	1 1/2"	2"	1/2"	1/2"	SEE NOTES.
SH-2			RESIDENTIAL SHOWER PAN AND TRIM.	1 1/2"	2"	1/2"	1/2"	SEE NOTES.
T-1			RESIDENTIAL TUB AND TRIM.	1 1/2"	2"	1/2"	1/2"	SEE NOTES.
U-1			COMMON AREA URINAL.	1 1/2"	2"	1/2"	-	SEE NOTES.
W-1			RESIDENTIAL FLOOR MOUNTED FLUSH TANK WATER CLOSET.	4"	2"	1/2"	-	SEE NOTES.
W-2			COMMON AREA FLOOR MOUNTED FLUSH VALVE WATER CLOSET.	4"	2"	1"	-	SEE NOTES.
WB-1			WASHER BOX.	3"	2"	1/2"	1/2"	SEE NOTES.

NOTES:
1. PROVIDE LAVATORIES WITH TEMPERATURE LIMITING DEVICE EQUAL TO WATTS USG-B THERMOSTATIC MIXING VALVES WITH **ASSE 1070** APPROVAL. SEE DETAIL.
2. PROVIDE TRAP SEAL EQUAL TO ZURN Z1072 FOR TRAPS SUBJECT TO EVAPORATION AS REQUIRED BY SECTION 1002.4 OF THE IPC 2015.
3. PROVIDE FULL SIZE CLEANOUTS.
4. ITEMS SPECIFIED IN THIS SCHEDULE ARE LISTED AS STANDARD. COMPARABLE ITEMS MAY BE SUBMITTED FOR APPROVAL MEETING THIS STANDARD.

BACKFLOW PREVENTER SCHEDULE

MARK	MFR.	MODEL	SIZE	MOUNTING	REMARKS
BFP-1	WATTS	LF-009	3"	VERTICAL	SEE NOTES
BFP-2	WATTS	LF-009	3"	VERTICAL	SEE NOTES

NOTES:
1. PIPED FULL SIZE TO FLOOR DRAIN.

EXPANSION TANK SCHEDULE

MARK	MFR.	MODEL	CAPACITY	DIAMETER	HEIGHT	REMARKS
ET-1	WATTS	PLT-12	4.5 GAL.	10.5"	13.5"	-
ET-2	WATTS	PLT-20	8.5 GAL.	12.5"	19.2"	-

CIRCULATING PUMP SCHEDULE

MARK	MFR.	MODEL	DESCRIPTION	TOTAL FT HD	V/PH/HZ	POWER INPUT	REMARKS
CP-1	GRUNDFOS	UPS 15-55SFC	IN-LINE CIRCULATOR	18	115/1/60	87 W	SEE NOTES.
CP-2	GRUNDFOS	UPS 15-55SFC	IN-LINE CIRCULATOR	18	115/1/60	87 W	SEE NOTES.

NOTES:
1. COORDINATE WITH ELECTRICAL CONTRACTOR.

WATER HEATER EQUIPMENT SCHEDULE

MARK	MFR.	MODEL	DESCRIPTION	ELECTRICAL INFORMATION					REMARKS
				ELEMENT WATTAGE (kW)	FLA	V/PH/HZ	WIDTH	HEIGHT	
WH-1	AO SMITH	DEL 30	DWELLING UNIT LOW-BOY WATER HEATER	3 kW UPPER/ 3kW LOWER	28.8	208/1/60	21-3/4"	30-7/8"	SEE NOTES.
WH-2	AO SMITH	DEL 40	DWELLING UNIT LOW-BOY WATER HEATER	4kW UPPER/ 4kW LOWER	38.4	208/1/60	24"	32-1/4"	SEE NOTES.
WH-3	AO SMITH	DEN-52	COMMON AREA WATER HEATER	4kW UPPER/ 4kW LOWER	38.4	208/1/60	20-1/2"	54-7/8"	SEE NOTES.
WH-4	AO SMITH	DRE-120	KITCHEN WATER HEATER	6 ELEMENTS @ 4.5kW	74.9	208/3/60	29-1/2"	62-1/4"	SEE NOTES.

NOTES:
1. **WH-1** TO HAVE A RECOVERY RATING OF 27 GALLONS PER HOUR AT 90ºF RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 150 PSI. WATER.
2. **WH-2** TO HAVE A RECOVERY RATING OF 36 GALLONS PER HOUR AT 90ºF RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 150 PSI. WATER.
3. **WH-3** TO HAVE A RECOVERY RATING OF 36 GALLONS PER HOUR AT 90ºF RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 150 PSI. WATER.
4. **WH-4** TO HAVE A RECOVERY RATING OF 123 GALLONS PER HOUR AT 90ºF RISE AND A MAXIMUM HYDROSTATIC WORKING PRESSURE OF 150 PSI. WATER.
5. PROVIDE WITH VACUUM RELIEF VALVE EQUAL TO WATTS LFN36-M1.
6. PROVIDE WITH SEISMIC SUPPORT STRAP.
7. PROVIDE WITH AQUASTAT EQUAL TO HONEYWELL L4006A1959.
8. PROVIDE WITH GALVANIZED WATER HEATER DRAIN PAN.

PLUMBING SPECIFICATIONS

SCOPE OF WORK
THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE ALL LOCAL CODES AND OTHER REGULATION GOVERNING WORK. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT. EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL WRAP ALL EXPOSED PVC PIPING IN UL RATED WRAP WITH A 25/50 FLAME SPREAD / SMOKE DEVELOPED INDEX. CONTRACTOR SHALL REPAIR ALL CORE DRILLED HOLES IN SPACE THAT ARE NOT UTILIZED IN THE NEW WORK (FIELD VERIFY EXISTING HOLES).

PERMITS
THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.

SHOP DRAWINGS
SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT AND THEY SHALL BE CLEARLY LABELED.

MISCELLANEOUS
ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE. COORDINATE THE INSTALLATION OF ALL ROOF FLASHINGS AT ROOF PENETRATION. PROVIDE FLASHING FOR ALL ROOF PENETRATIONS IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE

SOIL, WASTE AND VENT PIPING
SOIL, WASTE AND VENT PIPING 10" AND SMALLER SHALL PVC, ASTM 2665, D1785, SCHEDULE 40 PVC WITH PVC FITTINGS, AND SOLVENT WELD JOINTS WITH ASTM 2564 SOLVENT CEMENT.

DOMESTIC WATER PIPING
DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH NON-LEAD, NON-ANTIMONY SOLDER OR APPROVED EQUAL. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE.

CROSS-LINKED POLYETHYLENE (PEX) PIPE CONFORMING TO STANDARDS ASTM F876 OR ASTM F877 SHALL BE ACCEPTABLE.

DOMESTIC HOT WATER PIPING THAT IS PART OF HWR SYSTEM SHALL BE CPVC. PEX OR PVC PIPING IS NOT ACCEPTABLE.

CONDENSATE DRAINAGE PIPING
THE PLUMBING CONTRACTOR SHALL PROVIDE CONDENSATE DRAINS FOR AIR HANDLING UNITS. CONDENSATE DRAINAGE PIPING SHALL BE TYPE "M" COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH 50/50 SOLDER OR SCHEDULE 40 PVC DWV OR APPROVED EQUAL.

HANGERS & SUPPORTS
THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS INSTALLED AS REQUIRED BY LOCAL CODES ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

CONNECTIONS
INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE NON-LEAD, NON-ANTIMONY SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

CLEANOUTS
PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY CODE IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

INSTALLATION
INSTALL EXPOSED PIPING FREE OF SAGS AND BENDS. PROVIDE BRACKET STANDOFFS FROM MOUNTING SURFACES SUFFICIENT TO ALLOW 1" CLEANING SPACE AROUND ALL PIPING, INCLUDING ANY ADDED PIPING INSULATION. INSTALL FITINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, CONCRETE FLOOR AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

GENERAL
PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

VALVES
PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER. UNLESS NOTED OTHERWISE VALVES SHALL BE AS FOLLOWS:

VALVE TYPE	MANUFACTURER	MODEL NO.
CHECK VALVE (UP TO 2")	NIBCO	#S-22
FULL PORT BALL VALVE (UP TO 3")	NIBCO	#S-FP-600
GATE VALVE (UP TO 3")	NIBCO	#S-113
TEMP. & PRESSURE RELIEF VALVE	WILKINS	#TP1100A
WATER HAMMER ARRESTOR	WILKINS	#1250
BACKFLOW PREVENTER (DEVICE)	WILKINS	#700
VACUUM RELIEF VALVE	WILKINS	#35VCH
PRESSURE REDUCING VALVE	WILKINS	#500YSBR

SUPPLY
IF WATER PRESSURE SUPPLIED TO STORE IS GREATER THAN 40 PSI, PROVIDE A PRESSURE REGULATOR TO MAIN SUPPLY TO MAINTAIN WATER PRESSURE. PROVIDE BACKFLOW PREVENTION ON WATER SERVICE IF REQUIRED BY LOCAL CODES.

TESTING
ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED. AFTER TESTING IS COMPLETE, THE PLUMBING CONTRACTOR SHALL DISINFECT THE POTABLE WATER SYSTEM AS REQUIRED BY LOCAL AUTHORITY. TEST WATER PURITY ACCORDING TO LOCAL REQUIREMENTS AND SUBMIT CERTIFIED TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.

GUARANTEE
MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. FOR THE SAME PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

GENERAL NOTES

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS (DO NOT SCALE FOR LOCATIONS). THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL PLUMBING SYSTEM AS INDICATED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS AS INDICATED.
2. REMOVE CONNECTING UTILITIES (WATER, DRAINAGE, POWER, GAS, ETC.) AS INDICATED OR NECESSARY FOR FUTURE RECONNECTION IF REQUIRED.
3. CONTRACTOR SHALL EMPLOY WORKMEN WHO ARE TRAINED AND EXPERIENCED IN NECESSARY SKILLS TO PERFORM DEMOLITION WORK.
4. CONTRACTOR SHALL USE APPROPRIATE TOOLS AND SHALL NOT IMPART EXCESSIVE VIBRATIONS TO THE EXISTING STRUCTURE OR OTHER BUILDING COMPONENTS.
5. COORDINATE PIPING WITH EXISTING STRUCTURAL, ELECTRICAL, HVAC, COMMUNICATION, AND FIRE PROTECTION. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS OF TRADES.
6. ALL NEW & DEMOLISHED PIPING PENETRATIONS SHALL BE FULLY SEALED WATERTIGHT.
7. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL, NEMA, ANSI, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.
8. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD.
9. PROVIDE AND INSTALL ALL "P" TRAPS, MANIFOLDS, DRAIN LINES, SHUT-OFFS, GREASE TRAPS & BACKFLOW PREVENTORS AS REQUIRED BY EQUIPMENT AND/OR LOCAL CODES.
10. IF WATER PRESSURE AT EQUIPMENT AREA EXCEEDS 40 P.S.I. FLOW PRESSURE, INSTALL A PRESSURE REDUCING VALVE ON BOTH THE MAIN HOT AND COLD WATER SUPPLY LINES.
11. LOCATE AND FURNISH ALL AREA FLOOR DRAINS UNLESS OTHERWISE SPECIFIED.
12. CONTRACTORS TO MAKE USE OF ANY CONNECTIONS ALREADY INSTALLED IN EXISTING BUILDING WHENEVER POSSIBLE.
13. ALL INDIRECT WASTES EXCEEDING 24" IN LENGTH SHALL BE TRAPPED.
14. PROVIDE CLEANOUTS REQUIRED, & AT THE BASE OF ALL STACKS.
15. PROVIDE FIXTURE STOPS AT ALL PLUMBING FIXTURES.
16. PROVIDE ALL FITTING & ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
17. PROVIDE AUTOMATIC BALANCING VALVES IN ALL HWR CIRCUITS.
18. CONTRACTOR TO APPLY FOR GREASE INTERCEPTOR PERMIT PRIOR TO CONSTRUCTION. CONTRACTOR TO PAY ALL ASSOCIATED COSTS.

PIPING INSULATION

WATER PIPING
PROVIDE THERMAL INSULATION ON ALL HOT TEMPERED & COLD WATER, AND HORIZONTAL WASTE PIPING IN CEILING SPACES, AND ON ALL COLD WATER PIPING. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURE APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES, THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

PIPE SIZE	INSULATION THICKNESS
LESS THAN OR EQUAL TO 1-1/2"	1"
2" DIA. OR GREATER	1-1/2"

(INSULATION VALUE = K VALUE NOT EXCEEDING 2.027 BTU PER INCH/h*ft*f

SAFETY COVERS
INSTALL SPECIFIED NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AT ALL EXPOSED PIPING.

HVAC PIPING
INSULATE REFRIGERANT SUCTION PIPING AND COOLING COIL CONDENSATE PIPING 3/4" THICK, SELF SEALING, CLOSED CELL FOAM. INSULATE CONDENSATE PIPING WITH 1-1/2" THICK, HEAVY DUTY, SELF SEALING, JACKETED FIBERGLASS.

COMMERCIAL ENERGY EFFICIENCY

1. (C404.3) HEAT TRAPS SHALL BE INSTALLED ON SUPPLY AND DISCHARGE PIPING ON NON-CIRCULATING SYSTEMS.
2. (C404.4) ALL PIPING SHALL BE INSULATED IN ACCORDANCE WITH SECTION DETAILS AND TABLE C403.2.10.
3. (C404.5, C404.5.1, C404.5.2) HEATED WATER SUPPLY PIPING SHALL CONFORM TO PIPE LENGTH AND VOLUME REQUIREMENTS.
4. (C404.6.1) CONTROLS SHALL BE INSTALLED THAT LIMIT THE OPERATION OF A RECIRCULATION PUMP INSTALLED TO MAINTAIN TEMPERATURE OF A STORAGE TANK.
5. (C404.6.1, C404.6.2) AUTOMATIC TIME SWITCHES SHALL BE INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM OR HEAT TRACE.
6. (C404.6.3) THE CONTROLS ON PUMPS THAT CIRCULATE WATER BETWEEN A WATER HEATER AND A HEATED-WATER STORAGE TANK SHALL LIMIT OPERATION OF THE PUMP FROM HEATING CYCLE STARTUP TO NOT GREATER THAN 5 MINUTES AFTER THE END OF THE CYCLE.
7. (C404.7) A WATER DISTRIBUTION SYSTEM HAVING ONE OR MORE RECIRCULATION PUMPS THAT PUMP WATER FROM A HEATED-WATER SUPPLY PIPE BACK TO THE HEATED-WATER SOURCE THROUGH A COLD-WATER SUPPLY PIPE SHALL BE A DEMAND RECIRCULATION WATER SYSTEM. PUMPS SHALL HAVE CONTROLS THAT COMPLY WITH BOTH OF THE FOLLOWING:
   1. THE CONTROL SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF A FIXTURE OR APPLIANCE, SENSING THE PRESENCE OF A USER OF A FIXTURE OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO A FIXTURE FITTING OR APPLIANCE.
   2. THE CONTROL SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD-WATER PIPING TO 104°F (40°C).

PLUMBING LEGEND

NOT ALL SYMBOLS MAY BE USED

SYMBOL	ABB.	DESCRIPTION
CW	CW	DOMESTIC COLD WATER
HW	HW	DOMESTIC HOT WATER
HWR	HWR	DOMESTIC HOT WATER RECIRC.
S	S	SANITARY
CD	CD	CONDENSATE DRAIN
SD	SD	STORM DRAIN
V	V	SANITARY VENT
		UNDERGROUND PIPING
		PIPE TURN DOWN
		PIPE TURN UP
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		BALANCING VALVE
		BUTTERFLY VALVE
		STRAINER
		REDUCER
		ANCHOR
		CAP/PLUG
	CO	CLEANOUT (ABOVE CEILING)
		UNION
FCO	FCO	FLOOR CLEAN OUT
	CTE	CONNECT TO EXISTING
	WCO	WALL CLEAN OUT
	FD	FLOOR DRAIN
	VTR	VENT THRU ROOF
	IE	INVERT ELEVATION
	AFF	ABOVE FINISHED FLOOR
	WH	WATER HEATER
	WC	WATER CLOSET
	BFP	BACKFLOW PREVENTER
	(E)	EXISTING
	(D)	DEMOLISH

PLUMBING SHEET INDEX

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P1.11	Partial First Floor Plan - Plumbing - South
P1.12	Partial First Floor Plan - Plumbing - North
P1.20	Second Floor Plan - Plumbing
P1.21	Partial Second Floor Plan - Plumbing - South
P1.22	Partial Second Floor Plan - Plumbing - North
P1.30	Third Floor Plan - Plumbing
P1.31	Partial Third Floor Plan - Plumbing - South
P1.32	Partial Third Floor Plan - Plumbing - North
P1.40	Fourth Floor Plan - Plumbing
P1.41	Partial Fourth Floor Plan - Plumbing - South
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P1.50	Roof Plan - Plumbing
P2.01	Enlarged Unit Plans - DWV
P2.02	Enlarged Unit Plans - Plumbing
P2.03	Enlarged Plans - Plumbing

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

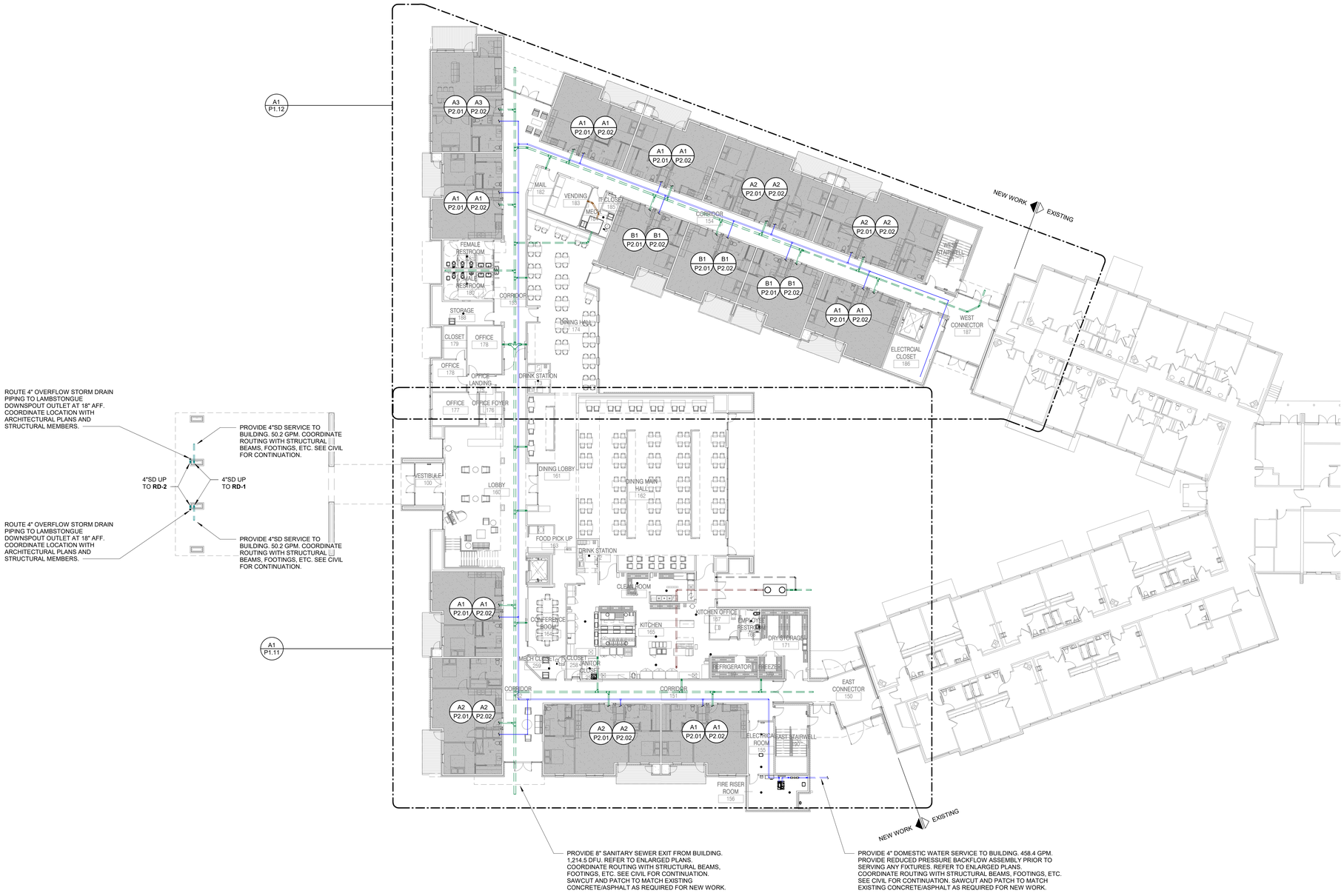
PROJECT TITLE
HARDING PLACE
801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
General Notes and Legend - Plumbing

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Design Development
DRAWING NUMBER
P0.01



DEMOLITION NOTES

1	THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS OF THE MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS PRIOR TO SUBMITTING A BID AND BEFORE BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
2	REMOVAL OF EXISTING FIXTURES, PIPING, AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. PROVIDE NEW ISOLATION VALVES AS REQUIRED FOR COMPLETION OF WORK.
3	REMOVAL OF EXISTING FIXTURES, PIPING, AND EQUIPMENT WILL REQUIRE CAPPING EXISTING MAINS OR BRANCHES AS NECESSARY AND REQUIRED TO ALLOW THE REMAINING SYSTEMS TO FULLY OPERATE WITHOUT DEGRADATION.
4	THE CONTRACTOR SHALL PROVIDE THE REMOVAL OF ALL EXISTING CEILINGS, WALLS, AND SLABS AS REQUIRED FOR THE DEMOLITION WORK. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO CREATE A SAFE ENVIRONMENT FOR CONSTRUCTION.
5	EXISTING PIPING, DUCTWORK, WIRING, CONDUIT, ETC. THAT IS NOT UTILIZED IN THE COMPLETED BUILDING SHALL BE DISCONTINUED OR REMOVED. ALL ENDS OF DISCONTINUED PIPING, CONDUIT, AND DUCTWORK SHALL BE CAPPED AT THE NEAREST WALL, CEILING, OR FLOOR SO THAT THEY ARE COMPLETELY CONCEALED. OPENINGS LEFT IN WALLS, CEILINGS, FLOORS, ETC. WHERE EQUIPMENT, CONDUIT, PIPING, ETC. ARE REMOVED AND NOT REPLACED SHALL BE PATCHED TO MATCH THE MATERIAL TO ADJACENT CONSTRUCTION.
6	EXISTING PIPING, WIRING, CONDUIT, DUCTWORK, AND EQUIPMENT THAT IS NOT REUSED SHALL BE REMOVED FROM THE SITE IN ITS ENTIRETY AND SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
7	ALL CUTTING OF EXISTING BUILDING COMPONENTS SHALL BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER WITHOUT THE REMOVAL OF EXCESS MATERIALS IN A SAFE MANNER. THE CONTRACTOR SHALL PATCH AND REPLACE REMOVED MATERIAL WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
8	WHERE EXISTING PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT ARE TO BE UTILIZED IN THE COMPLETED WORK AND IN CONFLICT WITH THE NEW CONSTRUCTION, THE COMPONENTS SHALL BE RELOCATED AND RECONNECTED TO MAINTAIN THE DESIRED SERVICES.
9	PORTIONS OF THE EXISTING SYSTEMS MAY OR MAY NOT BE SHOWN EVEN THOUGH IT MAY BE NECESSARY TO MODIFY THEM. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
10	ALL ACCESSIBLE ABANDONED PIPING, CONDUIT, DUCTWORK, AND EQUIPMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF.

PLUMBING NOTES

1	THESE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW ALL FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND CONFIRM SPACE ALLOCATIONS.
2	INSTALL ALL PIPING PER 2021 IPC AND LOCAL AMENDMENTS. DRAWINGS DO NOT SHOW ALL REQUIRED OFFSETS. CONTRACTOR SHALL PROVIDE OFFSETS AND PROVIDE VENTS ON SANITARY STACKS AS NECESSARY.
3	ACCESS PANELS ARE REQUIRED FOR ALL VALVES, CONTROLS, AND EQUIPMENT INSTALLED ABOVE HARD CEILINGS AND SHALL BE FURNISHED AND INSTALLED PER ARCHITECTURAL SPECIFICATIONS.
4	ALL RATED PIPE PENETRATIONS SHALL BE FIRESTOPPED AS REQUIRED PER LOCAL CODE.

PLUMBING KEYNOTES

#

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

First Floor Plan - Plumbing

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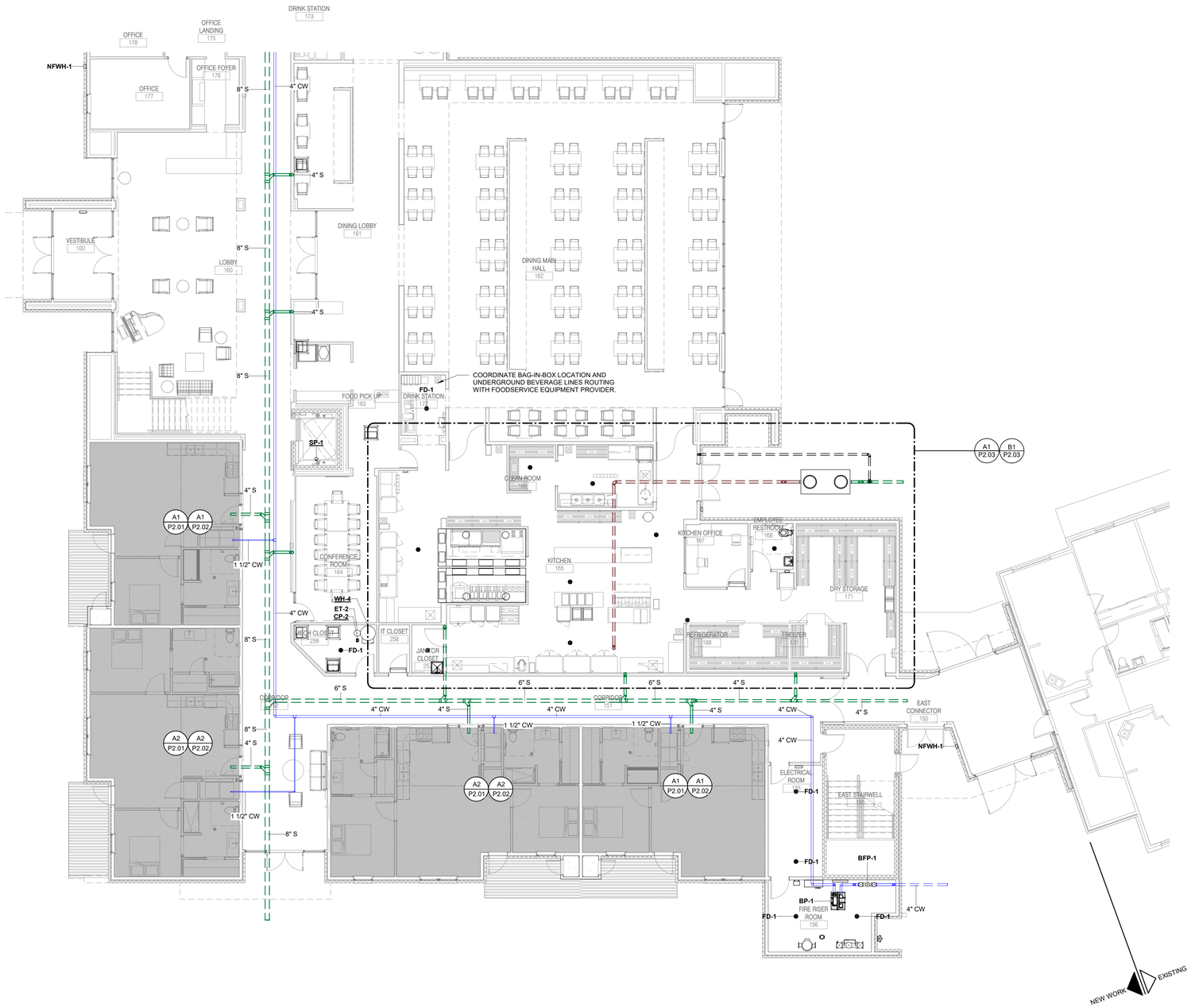
Design Development

DRAWING NUMBER

P1.10

A1 First Floor Plan - Plumbing
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'



A1 Partial First Floor Plan - Plumbing - South

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

0' 2' 10' 20' 40'

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HARDING PLACE

801 Benton Ave,
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DRAWING NAME

Partial First Floor Plan - Plumbing - South

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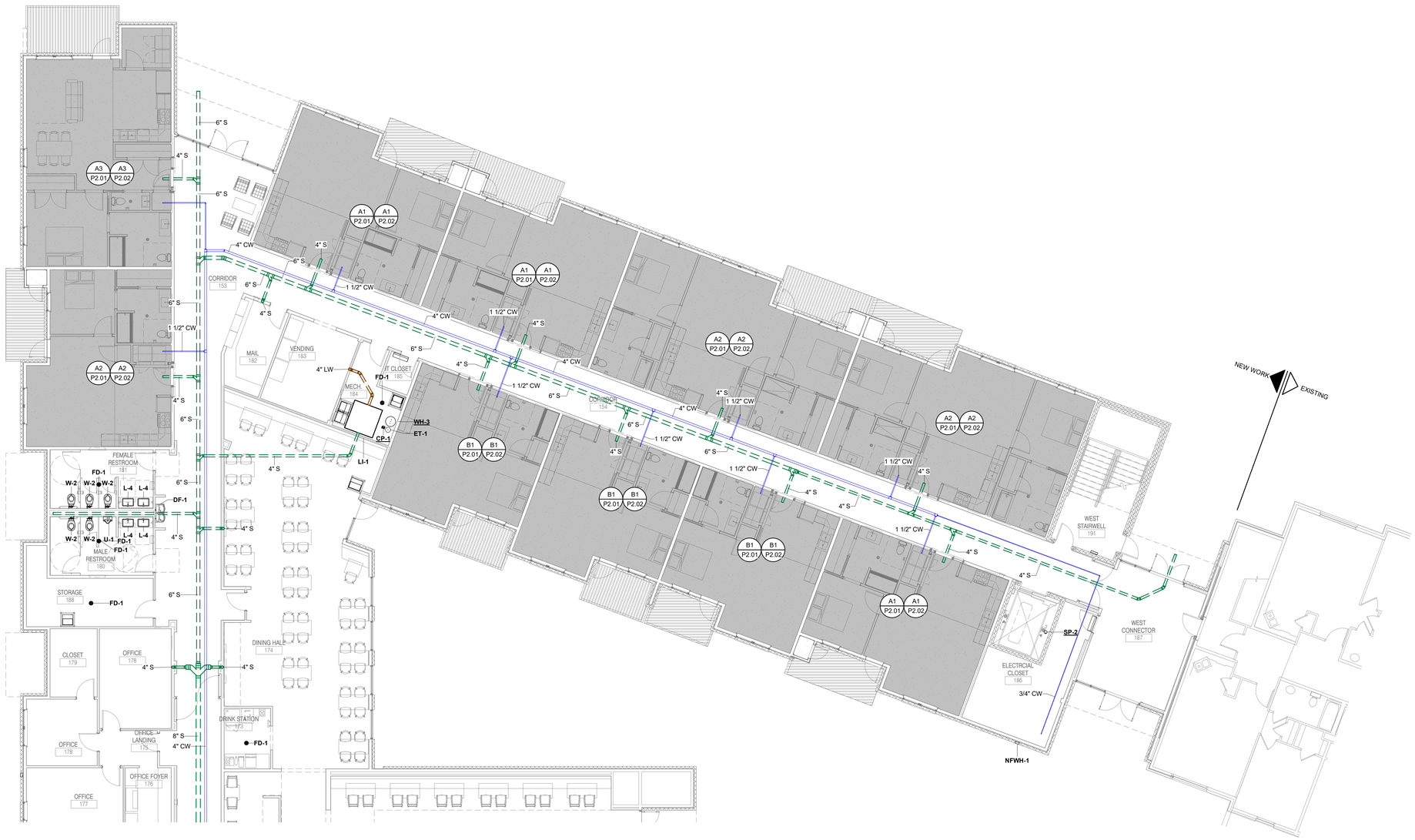
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Design Development

DRAWING NUMBER

P1.11



A1 Partial First Floor Plan - Plumbing - North

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

0' 2' 10' 20' 40'

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HARDING PLACE

801 Benton Ave,
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DRAWING NAME

Partial First Floor Plan - Plumbing - North

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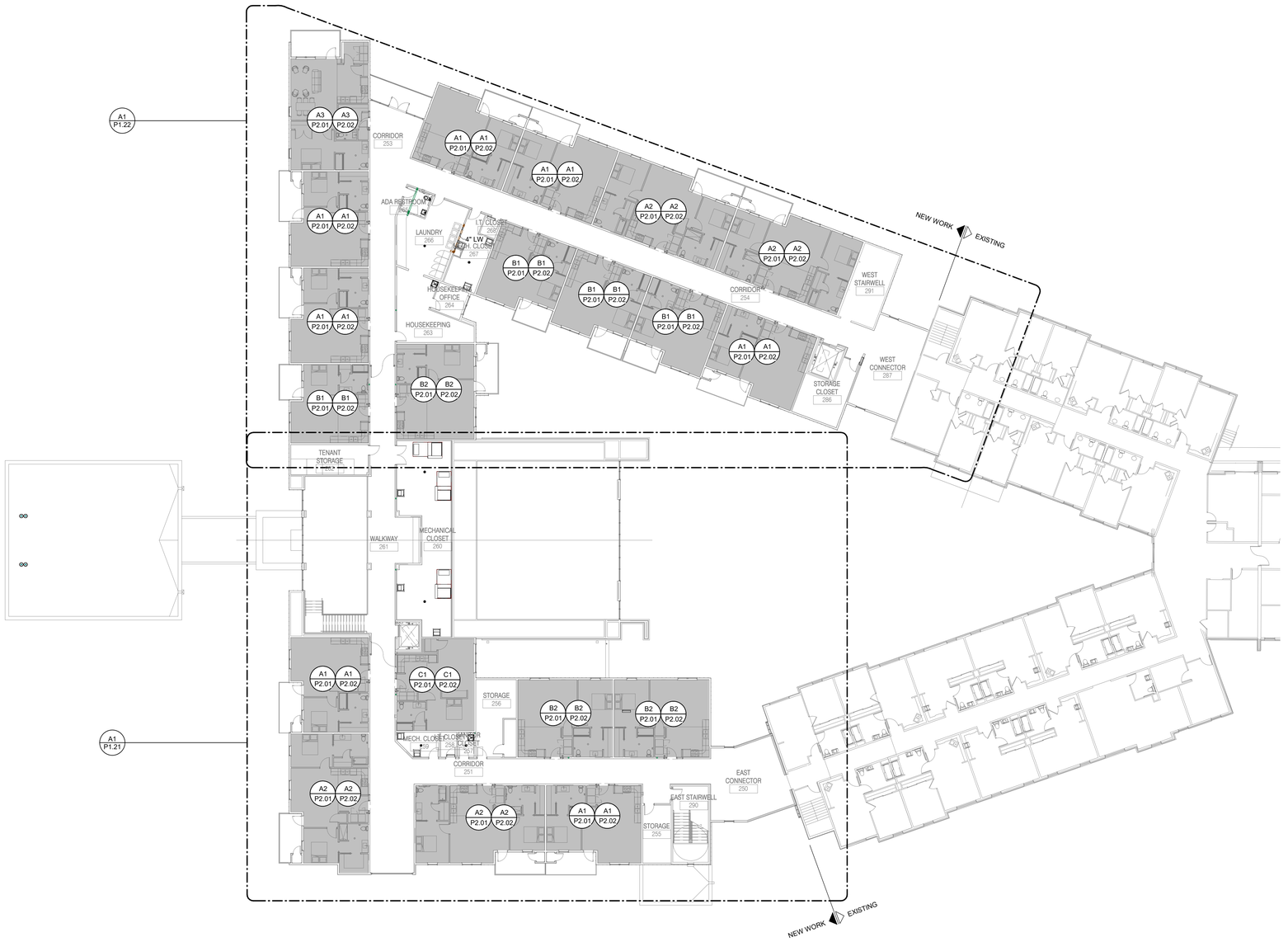
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Design Development

DRAWING NUMBER

P1.12



DEMOLITION NOTES

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PLUMBING NOTES

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PLUMBING KEYNOTES

#

A1 Second Floor Plan - Plumbing

SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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memphis, tn 38111
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Chad Stewart & Associates, Inc.
9720 Village Circle
Lakeland, TN 38002
Phone 901.360.7050
www.CSAengineeringinc.com

JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Second Floor Plan - Plumbing

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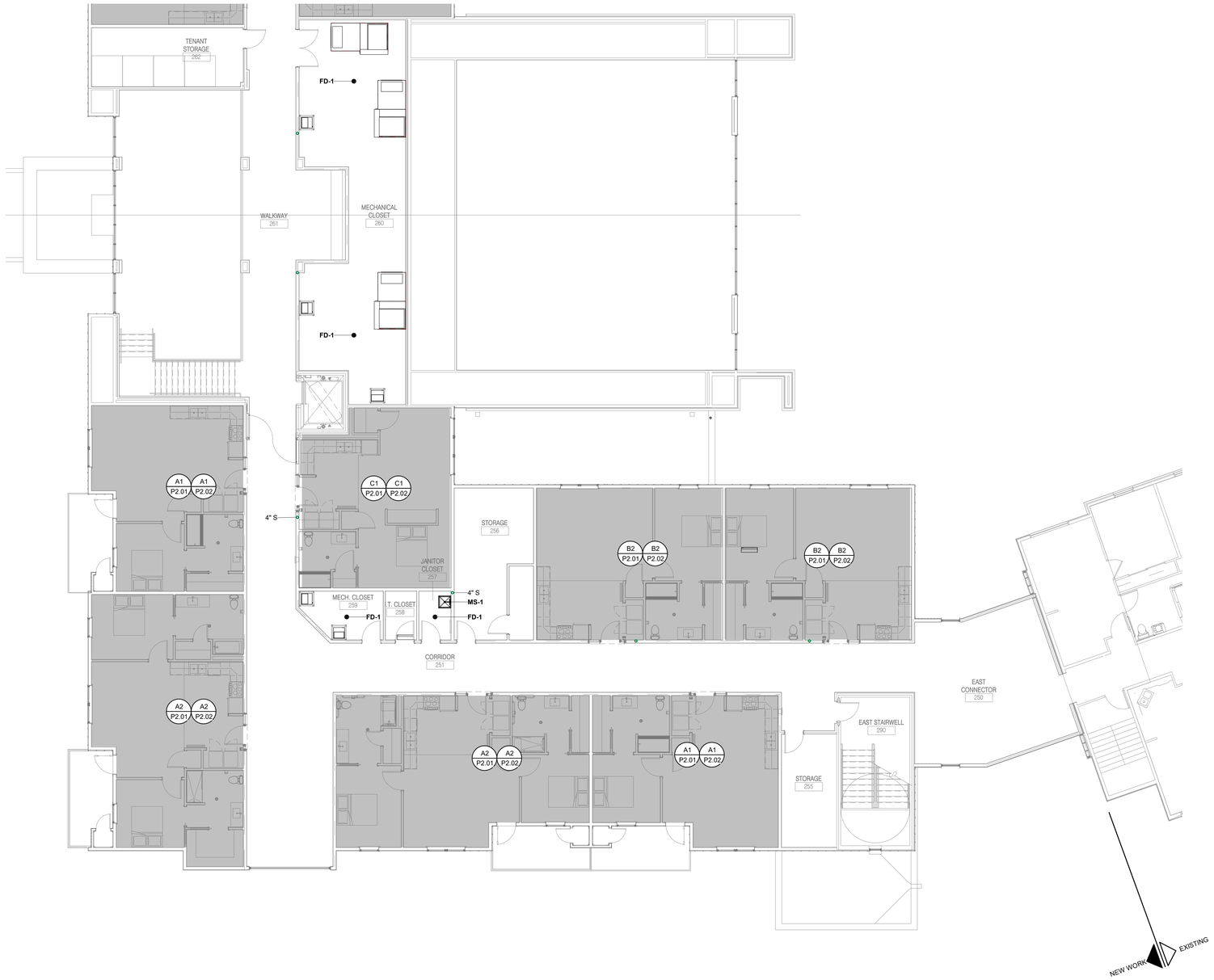
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PHASE

Design Development

DRAWING NUMBER

P1.20



A1 Partial Second Floor Plan - Plumbing - South

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

0' 2' 10' 20' 40'

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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Second Floor Plan - Plumbing - South

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DRAWING NUMBER

P1.21



A1 Partial Second Floor Plan - Plumbing - North

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

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JOB NUMBER

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REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Second Floor Plan - Plumbing - North

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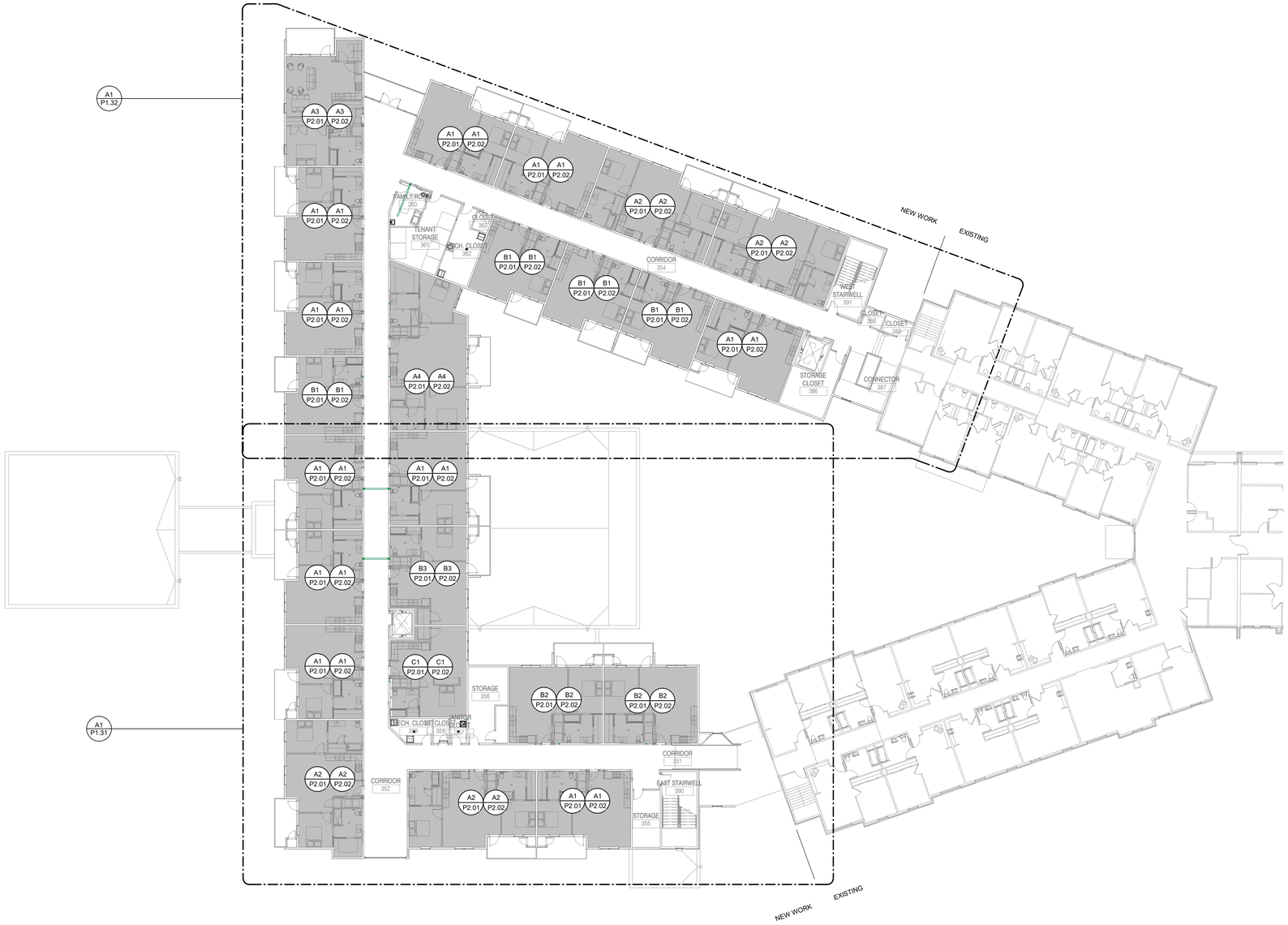
13 FEB. 2026

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Design Development

DRAWING NUMBER

P1.22



DEMOLITION NOTES

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PLUMBING KEYNOTES

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9720 Village Circle
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Phone 901.360.7090
www.CSAengineeringinc.com

JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Third Floor Plan - Plumbing

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13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

P1.30

A1 Third Floor Plan - Plumbing

SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'



A1 Partial Third Floor Plan - Plumbing - South

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

0' 2' 10' 20' 40'

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JOB NUMBER

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REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Third Floor Plan - Plumbing - South

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Design Development

DRAWING NUMBER

P1.31



A1 Partial Third Floor Plan - Plumbing - North

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

0' 2' 10' 20' 40'

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REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Third Floor Plan - Plumbing - North

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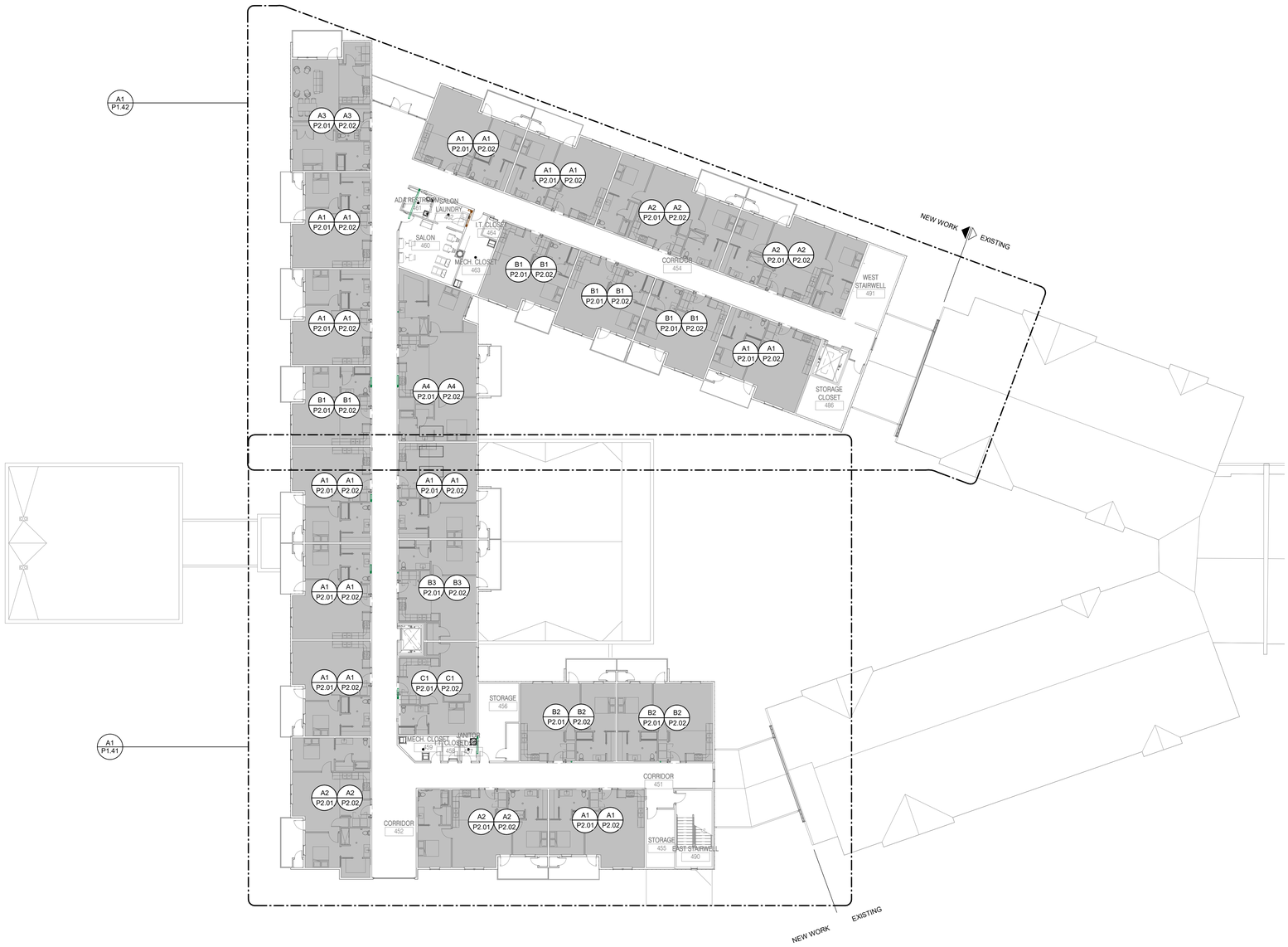
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Design Development

DRAWING NUMBER

P1.32



DEMOLITION NOTES

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PLUMBING KEYNOTES

#

A1 Fourth Floor Plan - Plumbing

SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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Phone 901.360.7050
www.CSAengineeringinc.com

JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Fourth Floor Plan - Plumbing

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Design Development

DRAWING NUMBER

P1.40



A1 Partial Fourth Floor Plan - Plumbing - South

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

0' 2' 10' 20' 40'

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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Fourth Floor Plan - Plumbing - South

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DRAWING NUMBER

P1.41



A1 Partial Fourth Floor Plan - Plumbing - North

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

0' 2' 10' 20' 40'

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JOB NUMBER

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REVISIONS

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PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Partial Fourth Floor Plan - Plumbing - North

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DRAWING NUMBER

P1.42

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PLUMBING KEYNOTES



1 Roof Plan - Plumbing
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

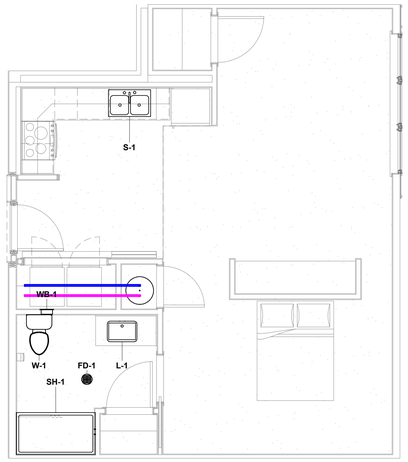
801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Roof Plan - Plumbing

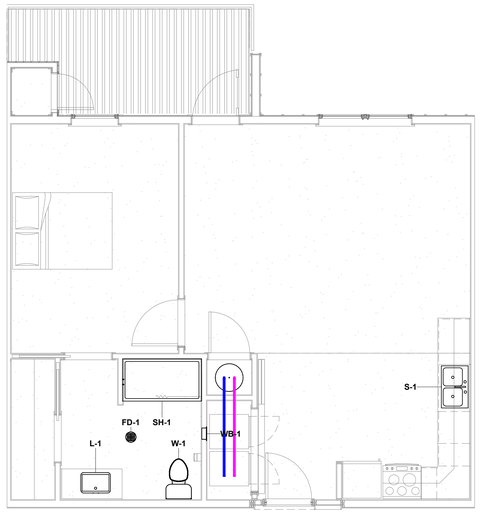
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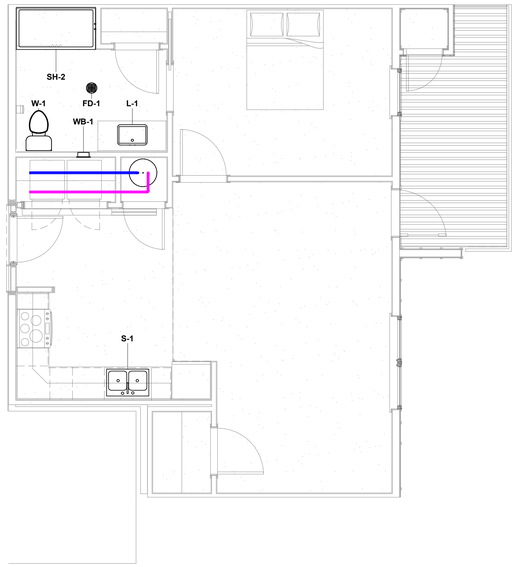
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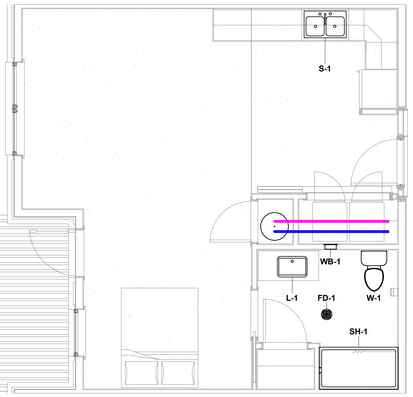
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DRAWING NUMBER
P1.50



C1 Enlarged Plan - Studio Elevator
SCALE: 1/4" = 1'-0"







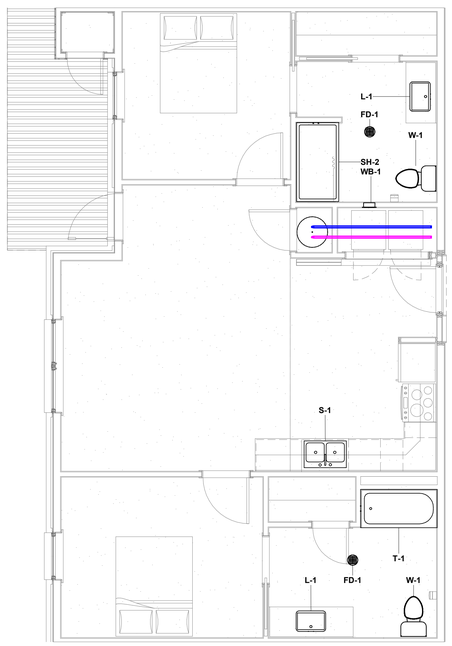
B1 Enlarged Plan - Studio Unit
SCALE: 1/4" = 1'-0"

B2 Enlarged Plan - 1-Bd Outer Balcony
SCALE: 1/4" = 1'-0"

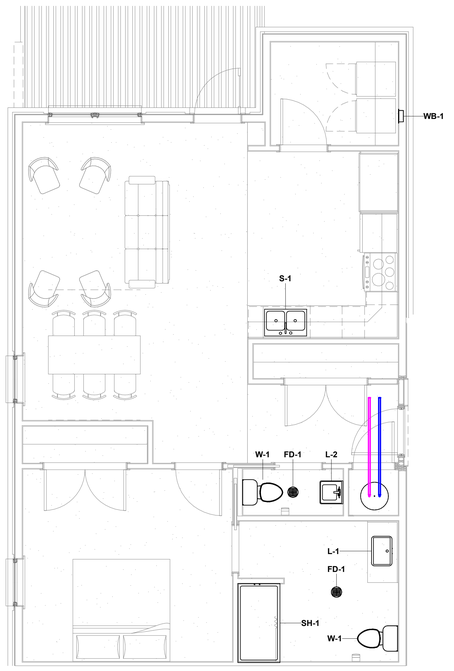
B3 Enlarged Plan - 1-Bd Elevator
SCALE: 1/4" = 1'-0"



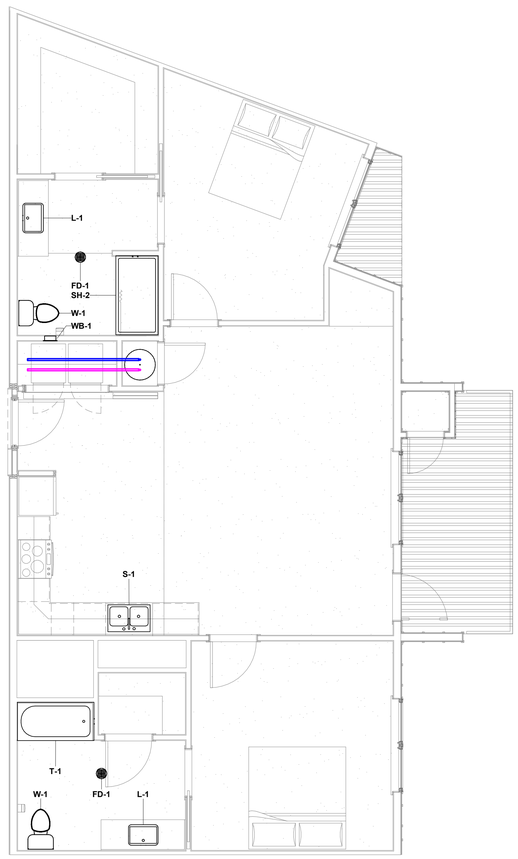
A1 Enlarged Plan - 1-Bd Unit
SCALE: 1/4" = 1'-0"



A2 Enlarged Plan - 2-Bd Unit
SCALE: 1/4" = 1'-0"



A3 Enlarged Plan - 1-Bd Suite
SCALE: 1/4" = 1'-0"



A4 Enlarged Plan - 2-Bd Suite
SCALE: 1/4" = 1'-0"

0' 1' 5' 10' 20'

PLUMBING NOTES

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4	ALL RATED PIPE PENETRATIONS SHALL BE FIRESTOPPED AS REQUIRED PER LOCAL CODE.

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

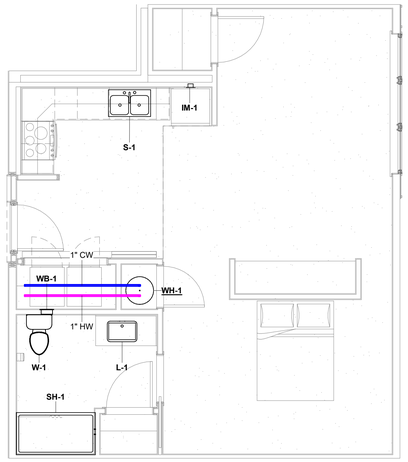
801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Enlarged Unit Plans - DWV

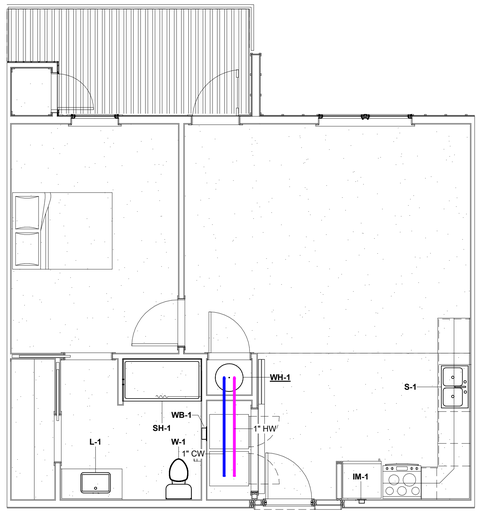
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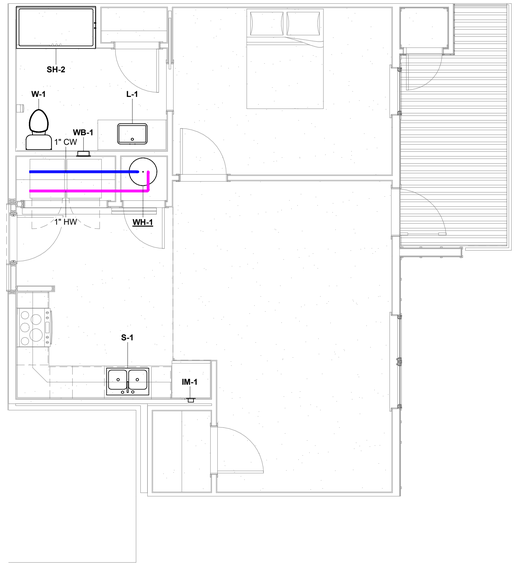
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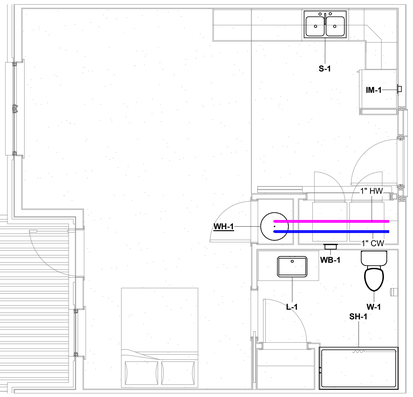
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DRAWING NUMBER
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C1 Enlarged Plan - Studio Elevator
SCALE: 1/4" = 1'-0"







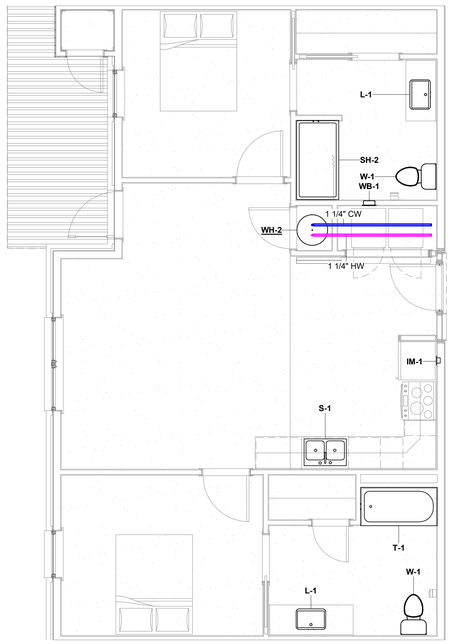
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SCALE: 1/4" = 1'-0"

B2 Enlarged Plan - 1-Bd Outer Balcony
SCALE: 1/4" = 1'-0"

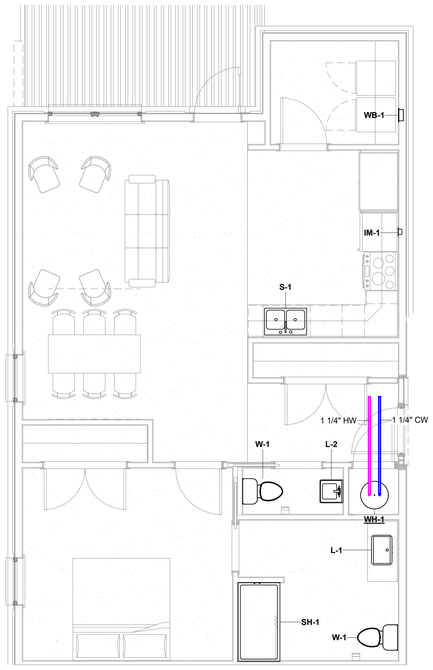
B3 Enlarged Plan - 1-Bd Elevator
SCALE: 1/4" = 1'-0"



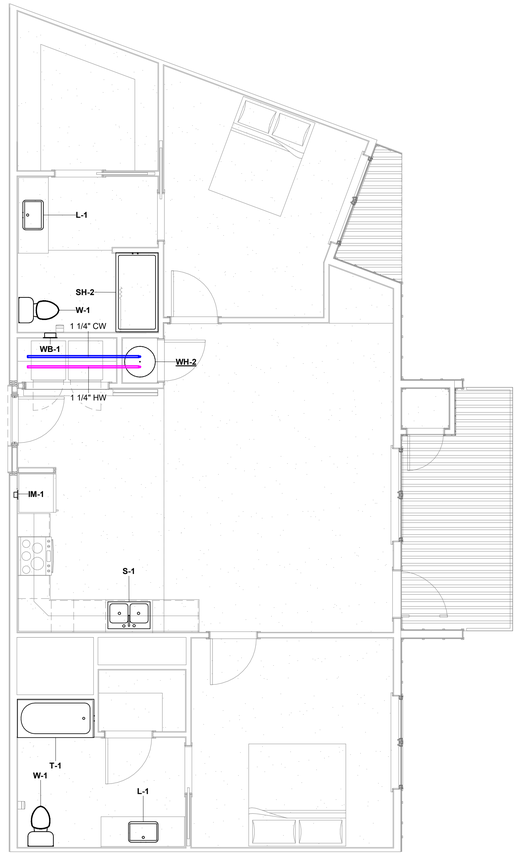
A1 Enlarged Plan - 1-Bd Unit
SCALE: 1/4" = 1'-0"



A2 Enlarged Plan - 2-Bd Unit
SCALE: 1/4" = 1'-0"



A3 Enlarged Plan - 1-Bd Suite
SCALE: 1/4" = 1'-0"



A4 Enlarged Plan - 2-Bd Suite
SCALE: 1/4" = 1'-0"

PLUMBING NOTES	
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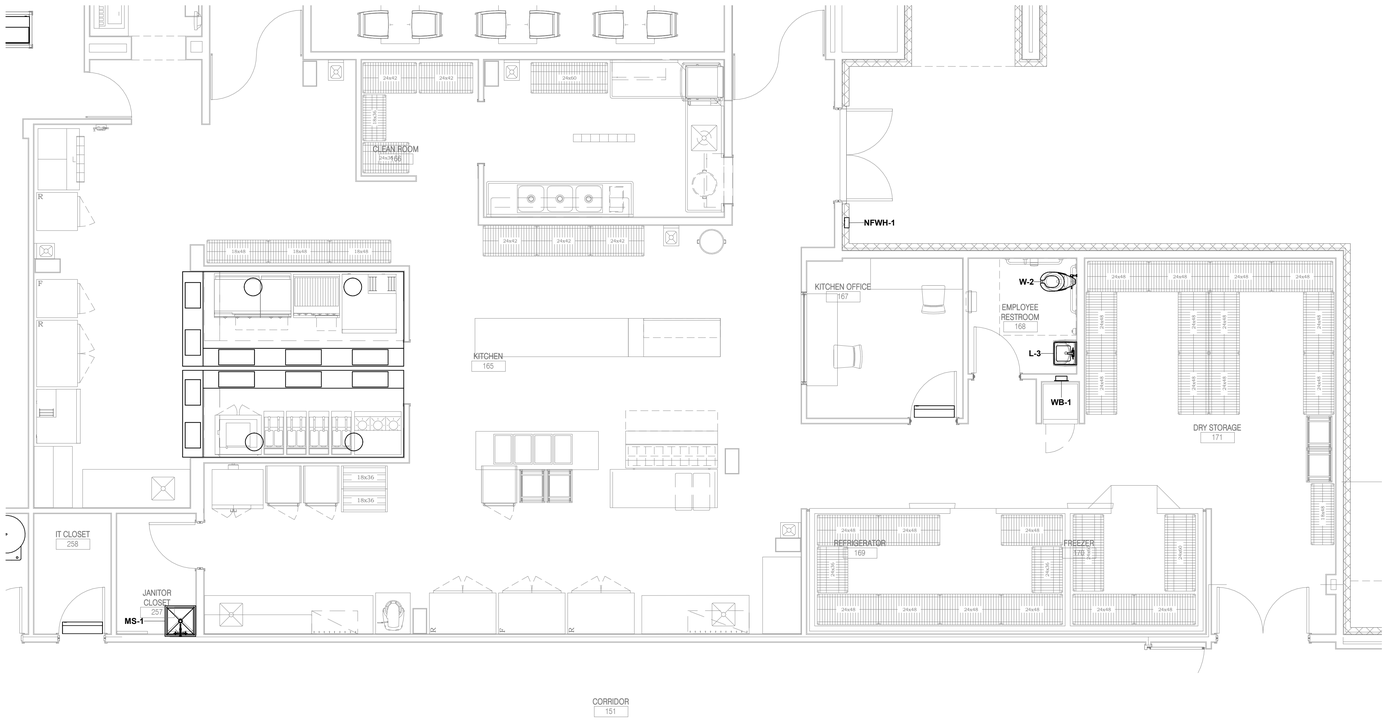
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DRAWING NAME
Enlarged Unit Plans - Plumbing

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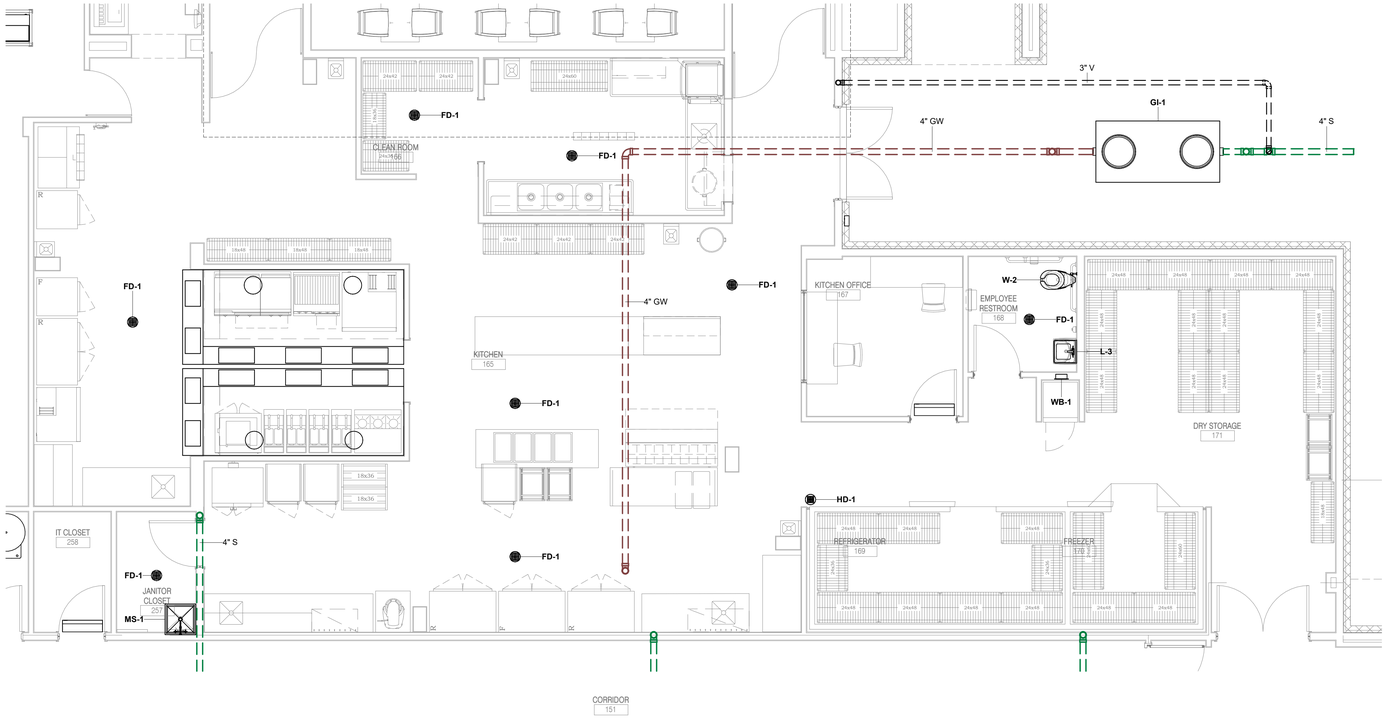
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Design Development
DRAWING NUMBER
P2.02



B1 Enlarged Plan - Plumbing - Kitchen

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

0' 4' 20' 40' 80'



A1 Enlarged Plan - DWV - Kitchen

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

0' 4' 20' 40' 80'

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801 Benton Ave,
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DRAWING NAME

Enlarged Plans - Plumbing

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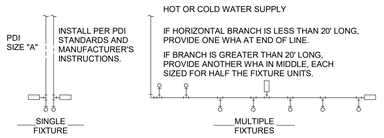
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DRAWING NUMBER

P2.03



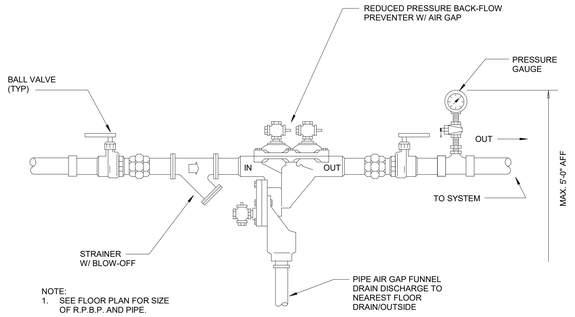
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER / BATHTUB	2	2

WATER HAMMER ARRESTERS

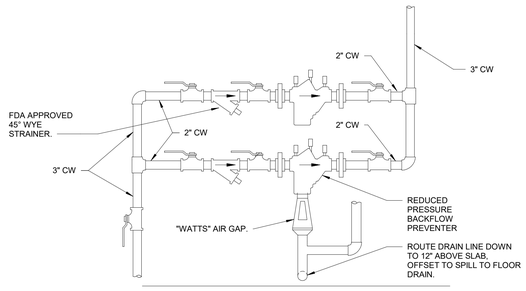
DO NOT PROVIDE AIR CHAMBERS. PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 AND ANSI # A112.26. 1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

1 WATER HAMMER ARRESTERS DETAIL
SCALE: N.T.S.

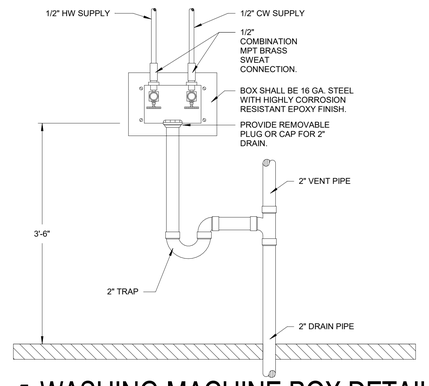


NOTE:
1. SEE FLOOR PLAN FOR SIZE OF R.P.B.P. AND PIPE.

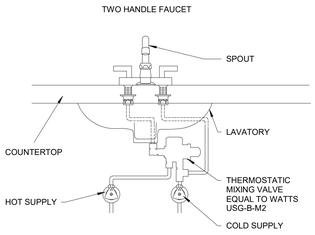
2 REDUCED PRESSURE BACKFLOW PREVENTER
SCALE: N.T.S.



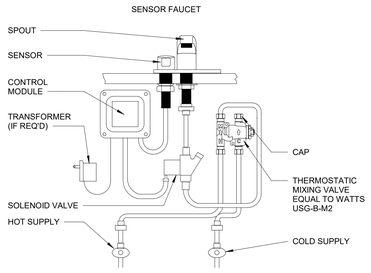
3 BACKFLOW PREVENTER MANIFOLD
SCALE: N.T.S.



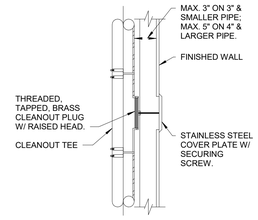
4 WASHING MACHINE BOX DETAIL
SCALE: N.T.S.



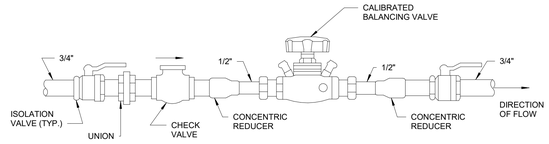
NOTE:
1. PLUMBING CONTRACTOR TO LOCATE WATER SUPPLIES TO ACCOMMODATE MIXING VALVE INSTALLATION.
2. THERMOSTATIC MIXING VALVE SHALL BE INSTALLED ON THE HOT WATER SUPPLY TO THE FIXTURE.
3. THE VALVE SHALL BE COMPLIANT WITH ASSE STANDARD 1070.
4. LIMIT TEMPERATURE TO A MAXIMUM OF 110°F.



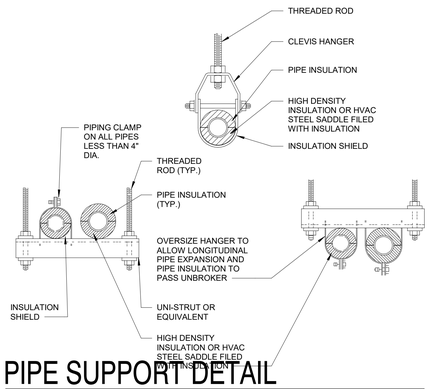
5 THERMOSTATIC MIXING VALVE DETAIL
SCALE: N.T.S.



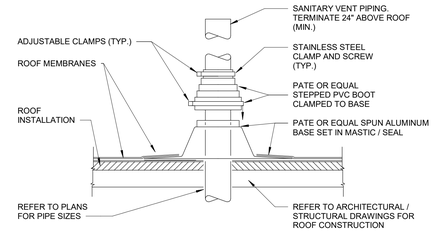
6 WALL CLEANOUT DETAIL
SCALE: N.T.S.



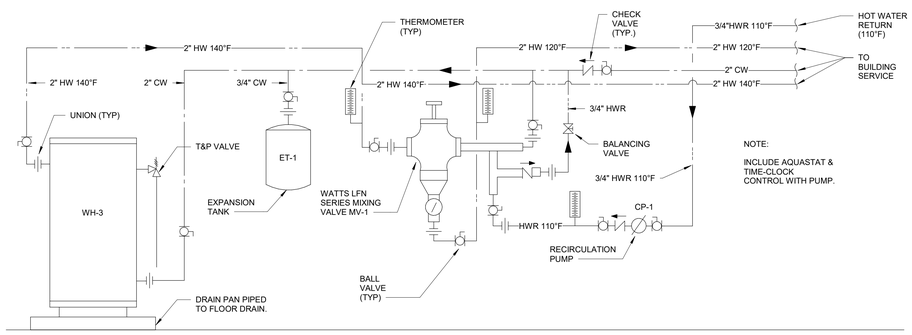
7 DOMESTIC HOT WATER RETURN DETAIL
SCALE: N.T.S.



8 PIPE SUPPORT DETAIL
SCALE: N.T.S.

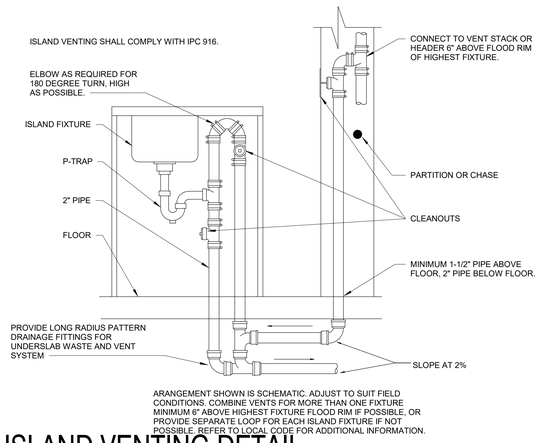


9 VENT THROUGH ROOF DETAIL
SCALE: N.T.S.



NOTE:
INCLUDE AQUASTAT & TIME-CLOCK CONTROL WITH PUMP.

10 WATER HEATER PIPING DETAIL
SCALE: N.T.S.



ARANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. COMBINE VENTS FOR MORE THAN ONE FIXTURE MINIMUM 6" ABOVE HIGHEST FIXTURE FLOOD RIM IF POSSIBLE, OR PROVIDE SEPARATE LOOP FOR EACH ISLAND FIXTURE IF NOT POSSIBLE. REFER TO LOCAL CODE FOR ADDITIONAL INFORMATION.

11 ISLAND VENTING DETAIL
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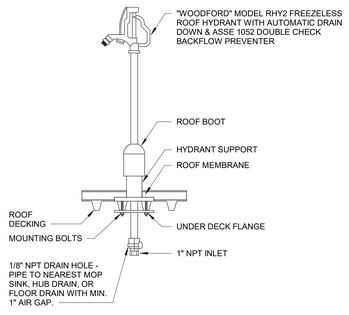
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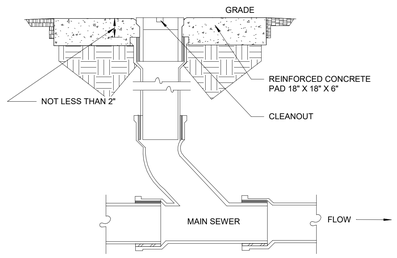
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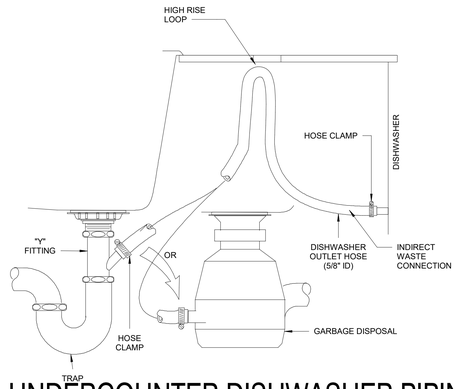
1 ROOFTOP HOSE BIBB DETAIL

SCALE: N.T.S.



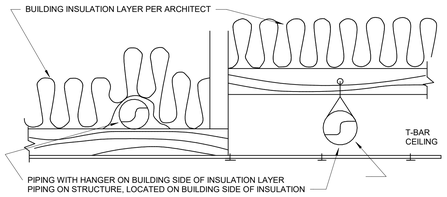
2 EXTERIOR CLEANOUT DETAIL

SCALE: N.T.S.



3 UNDERCOUNTER DISHWASHER PIPING DETAIL W/ GARBAGE DISPOSAL

SCALE: N.T.S.

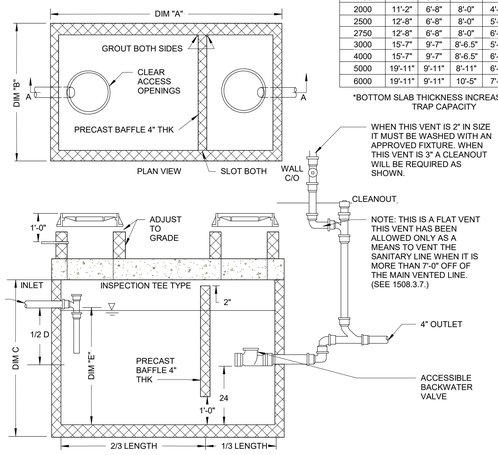


NOTE:
ALL WATER PIPING TO BE LOCATED ON BUILDING SIDE OF INSULATION, UNLESS NOTED OTHERWISE.

STRUCTURE INIDCATED IS EXAMPLE ONLY, SEE ARCHITECTURAL FOR ACTUAL CONSTRUCTION METHODS.

4 INSTALLATION DETAIL FREEZE PROTECTION

SCALE: N.T.S.

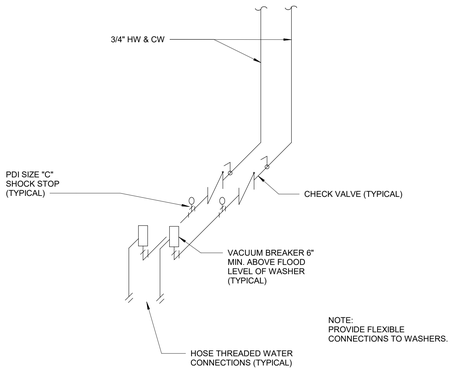


SIZING CHART					
GALLON CAPACIT	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
600	7'-0"	4'-8"	7'-0"	3'-6"	3'-2"
750	7'-0"	4'-8"	7'-0"	4'-3"	3'-11"
1000	7'-0"	5'-0"	7'-2"	4'-2"	3'-10"
1250	9'-0"	5'-0"	7'-2"	5'-2"	4'-10"
1500	9'-0"	5'-8"	7'-2"	4'-4"	4'-0"
1750	11'-2"	5'-8"	7'-2"	4'-11"	4'-7"
2000	11'-2"	6'-8"	8'-0"	4'-7"	3'-10"
2500	12'-8"	6'-8"	8'-0"	5'-6"	4'-9"
2750	12'-8"	6'-8"	8'-0"	6'-0"	5'-3"
3000	15'-7"	9'-7"	8'-6.5"	5'-0"	3'-9"
4000	15'-7"	9'-7"	8'-6.5"	6'-3"	5'-0"
5000	19'-11"	9'-11"	8'-11"	6'-2"	4'-9"
6000	19'-11"	9'-11"	10'-5"	7'-2"	5'-9"

*BOTTOM SLAB THICKNESS INCREASES WITH TRAP CAPACITY

5 GREASE INTERCEPTOR DETAIL

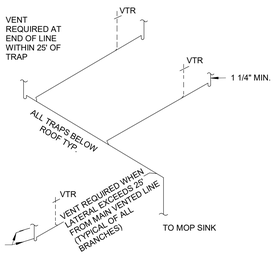
SCALE: N.T.S.



NOTE:
PROVIDE FLEXIBLE CONNECTIONS TO WASHERS.

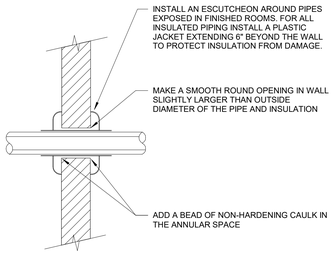
6 MULTIPLE WASHER CONN. DETAIL

SCALE: N.T.S.



7 CONDENSATE PIPING DETAIL

SCALE: N.T.S.

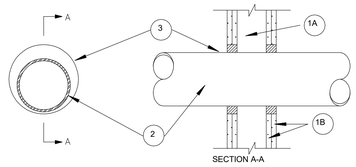


NOTES:
1. THIS DETAIL APPLIES TO ALL PIPES.

8 INTERIOR WALL PENETRATION DETAIL

SCALE: N.T.S.

SYSTEM NO. W-L-1054 DECEMBER 04, 2002
F RATINGS - 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - 4 CFM/SQ FT



1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW-ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN.WIDER AND 4 TO 6 IN. HIGHER THAN THE DIAM OF THE PENETRATING ITEM SUCH THAT, WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
   B. GYPSUM BOARD* - 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 32-1/4 IN. FOR STEEL STUD WALLS. MAX DIAM OF OPENING IS 14-1/2 IN. FOR WOOD STUD WALLS.

THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.

2. THROUGH-PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGRESS FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALLASSEMBLY THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
   A. STEEL PIPE - NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING OR 6 IN DIAM STEEL CONDUIT.
   D. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

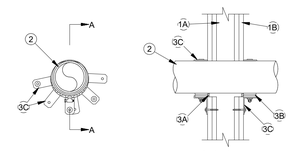
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT OF CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.
HILTI CONSTUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT

*BEARING THE UL CLASSIFICATION MARK

9 METALLIC PIPE THROUGH RATED WALL

SCALE: N.T.S.

SYSTEM NO. W-L-2546
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATINGS - 1 AND 2 HR (SEE ITEM 2)



1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400, OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NON 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD - THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS AND ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 5 IN.

THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANTS - ONE NONMETALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE OR CONDUIT AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO A MAX 1/2 IN. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL. THE FOLLOWING TYPES AND SIZES OF PIPES OR CONDUITS MAY BE USED.
   A. POLYVINYL CHLORIDE (PVC) PIPE - NOM 4 IN. DIAM OR SMALLER SCHEDULE 40 CELLULAR OR SOLID CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE, OR VENT) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 4 IN. DIAM OR SMALLER SDR13.5 CPVC PIPE FOR USE IN (PROCESS OR SUPPLY) PIPING SYSTEMS.
   C. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN. DIAM OR SMALLER FLOWGUARD GOLD SDR11 CPVC PIPE FOR USE IN (PROCESS OR SUPPLY) PIPING SYSTEMS.
   D. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN. DIAM OR SMALLER BLAZEMASTER SDR13.5 CPVC PIPE FOR USE IN (PROCESS OR SUPPLY) PIPING SYSTEMS.
   E. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE - NOM 4 IN. DIAM OR SMALLER SCHEDULE 40 CELLULAR CORE OR SOLID CORE ABS PIPE FOR USE IN (PROCESS OR SUPPLY) OR VENTED (DRAIN,WASTE, OR VENT) PIPING SYSTEMS.
   F. RIGID NONMETALLIC CONDUIT - NOM. 2 IN. DIAM OR SMALLER SCHEDULE 40 PVC CONDUIT INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA NO. 70).

3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID, OR CAVITY MATERIAL - SEALANT - MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
   B. FILL, VOID, OR CAVITY MATERIAL - WRAP STRIP - NOM 3/16 IN. THICK BY 1-3/4 IN. WIDE INTUMESCENT WRAP STRIP, FOR NOM 2 IN. DIAM OR SMALLER PIPES/CONDUITS, A MIN OF TWO LAYERS OF WRAPSTRIP ARE REQUIRED. FOR NOM 2-1/2 IN. TO 4 IN. DIAM PIPES/CONDUITS, A MIN OF THREE LAYERS OF WRAP STRIP ARE REQUIRED. THE LAYERS OF WRAP STRIP ARE INDIVIDUALLY WRAPPED AROUND THE PIPE TO THE FULLEST EXTENT POSSIBLE WHILE ALLOWING THE PENETRANT TO REMAIN AT POINT CONTACT WITHIN THE OPENING AND IN THE COLLAR. WRAP STRIP BUTTED TIGHTLY AGAINST BOTH SURFACES OF WALL.
   C. STEEL COLLAR - STEEL COLLAR FABRICATED FROM COILS OF PRECUT MIN 0.016 IN. THICK GALV STEEL AVAILABLE FROM FILL MATERIAL MANUFACTURER. COLLAR SHALL BE NOM 1-3/4 IN. DEEP WITH 1 IN. WIDE BY 2 IN. LONG ANCHOR TABS ON 1-3/4 IN. CENTERS FOR ATTACHMENT TO BOTH SURFACES OF WALL. IN ADDITION, COLLARS CONTAIN RETAINER TABS 1/2 IN. WIDE BY 3/16 IN. LONG, LOCATED OPPOSITE THE ANCHOR TABS. COLLAR SHALL BE TIGHTLY WRAPPED OVER THE WRAP STRIP, OVERLAPPING MIN 1 IN. AT SEAM AND COMPRESSED WITH A MIN 0.026 IN. THICK STAINLESS STEEL BAND AT COLLAR MIDHEIGHT. OPTIONAL SECUREMENT OF THE COLLAR MAY BE ACCOMPLISHED WITH TWO SHEET METAL SCREWS SCREWED THROUGH THE OVERLAPPING PORTION OF THE COLLAR. THE RETAINER TABS ARE FOLDED 90 DEG TOWARDS THE PIPE TO MAINTAIN THE ANNULAR SPACE AROUND THE PIPE AND TO RETAIN THE WRAP STRIP. COLLAR SECURED TO BOTH SURFACES OF WALL WITH MIN 1-1/2 IN. LONG DRYWALL OR LAMINATE SCREWS WITH MIN 3/4 IN. STEEL WASHERS COLLAR FASTENED TO WALL AT EVERY OTHER TAB. NO ANCHOR TAB IS REQUIRED AT POINT CONTACT LOACTION OF COLLAR TO PENETRANT.

10 NONMETALLIC PIPE THROUGH RATED WALL

SCALE: N.T.S.

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Details - Plumbing

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13 FEB. 2026

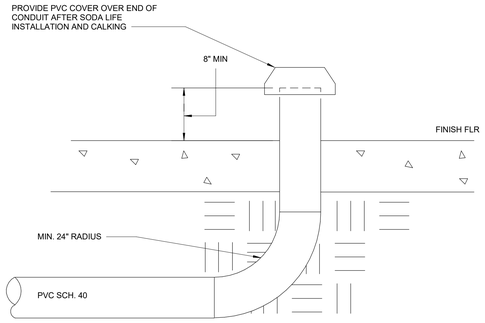
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Design Development

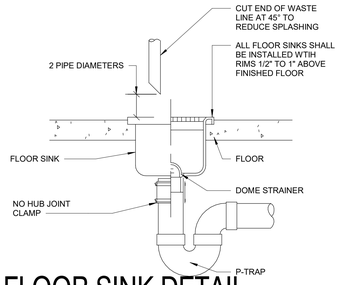
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P4.02

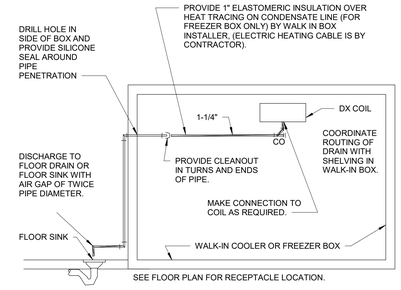
NOTE: COORDINATE EXACT LOCATION OF BAG IN BOX WITH ARCHITECT.



1 BEVERAGE LINES DETAIL
SCALE: N.T.S.



2 FLOOR SINK DETAIL
SCALE: N.T.S.

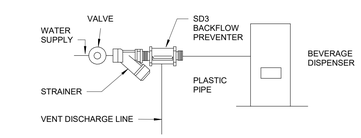


INSTALL PIPE A MINIMUM OF 76" ABOVE FINISH FLOOR, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. KEEP DRAIN LINE FROM EVAPORATOR AS HIGH AS POSSIBLE UNDER THE EVAPORATOR BACK TO THE WALL TO MAXIMIZE SHELF SPACE UNDER THE COIL. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

WALK-IN BOX CONDENSATE DRAIN

3 WALK IN BOX CONDENSATE DETAIL
SCALE: N.T.S.

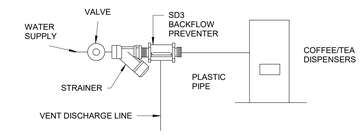
WATER SUPPLY INSTALLATIONS



NOTES:
1. BACKFLOW PREVENTER SHALL BE A BACKFLOW DOUBLE CHECK VENTED WATTS SD-3-MF OR EQUAL.
2. BACKFLOW PREVENTER SHALL BE ASSE 1022.
3. BACKFLOW PREVENTER SHALL BE STAINLESS STEEL.
4. ROUTE VENT DISCHARGE LINE TO FLOOR SINK AND TERMINATE TO MAINTAIN 2" AIR GAP.

4 CARBONATED DISPENSER / SODA GUN DETAIL
SCALE: N.T.S.

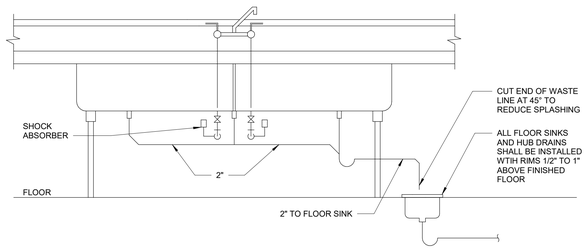
WATER SUPPLY INSTALLATIONS



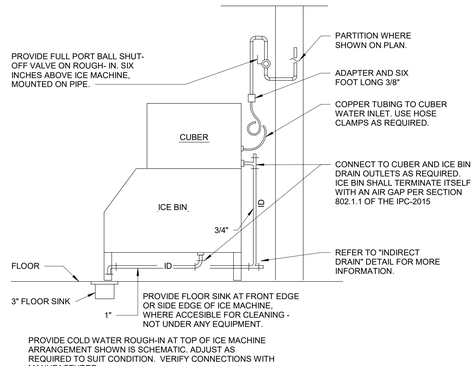
NOTES:
1. BACKFLOW PREVENTER SHALL BE A BACKFLOW DOUBLE CHECK VENTED WATTS SD-3-MF OR EQUAL.
2. BACKFLOW PREVENTER SHALL BE ASSE 1022.
3. BACKFLOW PREVENTER SHALL BE STAINLESS STEEL.
4. ROUTE VENT DISCHARGE LINE TO FLOOR SINK AND TERMINATE TO MAINTAIN 2" AIR GAP.

5 TEA/COFFEE BFP DETAIL
SCALE: N.T.S.

NOTE:
COORDINATE WITH FOOD SERVICE EQUIPMENT CONTR.

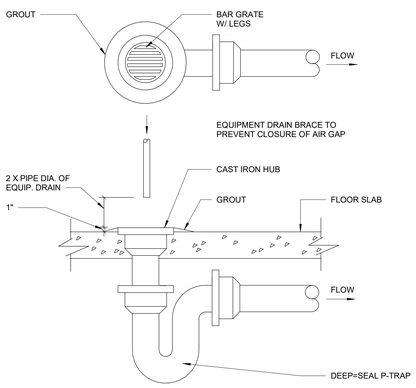


6 3 COMPARTMENT SINK DETAIL
SCALE: N.T.S.

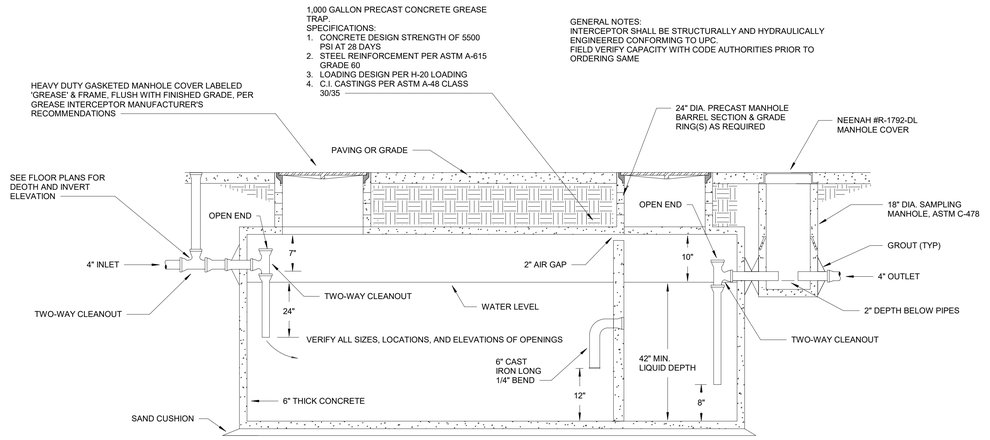


PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITION. VERIFY CONNECTIONS WITH MANUFACTURER.

7 ICE MACHINE CONNECTIONS DETAIL
SCALE: N.T.S.



8 HUB DRAIN DETAIL
SCALE: N.T.S.



9 GREASE INTERCEPTOR PIPING DETAIL
SCALE: N.T.S.

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Details - Plumbing

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DATE
13 FEB. 2026
PHASE
Design Development
DRAWING NUMBER
P4.03

ELECTRICAL LEGEND

- DUPLEX
- GFCI DUPLEX
- SPLIT-WIRED DUPLEX
- QUAD OUTLET
- DUPLEX/DATA FLOOR BOX
- DATA FLOOR BOX
- DUPLEX FLOOR BOX
- QUAD FLOOR BOX
- QUAD/DATA FLOOR BOX
- COMMUNICATIONS OUTLET
- WIRELESS ACCESS POINT
- WALL SWITCH (X DENOTES TYPE)
- MOTOR
- NON-FUSED DISCONNECT
- FUSED DISCONNECT
- MOTOR STARTER
- KEYPAD
- TV OUTLET
- CEILING SMOKE DETECTOR
- CEILING SMOKE DETECTOR w/ SOUNDER BASE
- HEAT DETECTOR
- CARBON MONOXIDE DETECTOR
- DUCT SMOKE DETECTOR
- POST INDICATOR VALVE
- CARD READER
- ELECTRIC STRIKE
- MAGLOCK
- ELECTRIFIED TRANSFER HINGE
- CEILING SPEAKER
- MANUAL PULL STATION
- FIRE ALARM HORN/ STROBE
- FIRE ALARM SPEAKER/STROBE
- FIRE ALARM STROBE
- WALL SMOKE ALARM/DETECTOR
- MAGNETIC HOLD OPEN DEVICE
- CONTROL MODULE
- MONITOR MODULE
- FLOW SWITCH
- TAMPER SWITCH
- PRESSURE SWITCH
- INTERCOM STATION
- CEILING MOUNT EXIT SIGN
- WALL MOUNT EXIT SIGN
- SURFACE MOUNT 2'X4'
- SURFACE MOUNT 2'X2'
- RECESSED 2'X 4'
- RECESSED 2'X 2'
- EMERGENCY RECESSED 2'X 4'
- EMERGENCY RECESSED 2'X 2'
- SQUARE/ RECT. HIGH BAY
- ROUND HIGH BAY
- STRIP LIGHT
- EMERGENCY STRIP LIGHT
- WALL MOUNT EMERGENCY LIGHT
- JUNCTION BOX
- HEARING IMPAIRED DOORBELL
- CCTV CAMERA

ELECTRICAL ABBREVIATIONS

XX"	INDICATES MOUNTING HEIGHT AFF
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
LED	LIGHT EMITTING DIODE
IG	ISOLATED GROUND
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
NF	NON-FUSED
N.I.C.	NOT IN CONTACT
NEC	NATIONAL ELECTRIC CODE
N.T.S.	NOT TO SCALE
UNO	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
# / E#.#	DETAIL NUMBER/SHEET NUMBER

GENERAL ELECTRICAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS WHICH ARE PART OF THIS CONTRACT. CONTRACTOR SHALL PROVIDE ELECTRICAL CONNECTIONS TO ALL EQUIPMENT NOTED IN CONTRACT DOCUMENTS REGARDLESS OF WHAT DRAWING OR SPECIFICATION SECTION THE REQUIREMENTS ARE NOTED UNDER.
2. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL NATIONAL AND LOCAL ELECTRICAL CODES. CONTRACTOR SHALL TAKE OUT ALL PERMITS AND PAY ALL FEES ASSOCIATED WITH ELECTRICAL WORK.
3. ALL WIRING SHALL BE STRANDED COPPER FOR ALL WIRE SIZES (#12 MINIMUM), TYPE THWN INSULATION, AND SHALL BE INSTALLED IN CONTINUOUS CONDUIT SYSTEMS UNLESS NOTED OTHERWISE. ALUMINUM CABLE WILL BE AN ACCEPTABLE WIRING METHOD FOR THIS PROJECT FOR FEEDERS OVER 100A. WIRING SHALL BE COLOR CODED BLACK, RED, BLUE, WHITE, GREEN FOR 208Y/120 VOLTS AND BROWN, ORANGE, YELLOW, WHITE/STRIPED, GREEN FOR 480Y/277 VOLTS. ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE INSULATED GREEN GROUNDING CONDUCTOR SIZED PER NEC, #12 MINIMUM. HOME RUN WIRES SHALL BE 10 GAUGE IF THE DISTANCE FROM PANELBOARD TO FIRST CONNECTION (LIGHTING FIXTURE, OUTLET, ETC.) IS OVER 60 FEET AND #8 GAUGE IF THE DISTANCE IS OVER 120 FEET.
4. ALL CONDUIT SHALL BE ROUTED PARALLEL TO BUILDING WALLS. BRANCH CIRCUIT HOME RUN GROUPING SHALL BE LIMITED TO 1" CONDUIT SIZE. WHEN MORE THAN 4 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE CONDUIT, CONDUCTOR AMPACITY SHALL BE DERATED PER ARTICLE 310 TABLE NOTES #8 THRU #10 OF N.E.C.
5. ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL INTERIOR EXPOSED CONDUIT BELOW 8 FT. AND ALL EXTERIOR EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL (GRS). ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE. ALL OTHER CONDUIT SHALL BE EMT (ELECTRIC METALLIC TUBING) WITH STEEL SET SCREW FITTINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE. FITTINGS INSTALLED IN WET LOCATIONS SHALL BE RAIN TIGHT. ALL CONDUIT TURNS BELOW GRADE AND THROUGH CONCRETE SLABS SHALL BE MADE WITH GALVANIZED RIGID STEEL ELBOWS. MC CABLE, WITH INSULATED GROUND CONDUCTOR, IS AN ACCEPTABLE WIRING METHOD FOR THIS PROJECT WHERE RUN CONCEALED AND WHERE ALLOWED BY CODE.
6. ALL OPEN CONDUIT SYSTEMS SHALL BE PROVIDED WITH PULL STRINGS.
7. CONTRACTOR MAY SELECT CONDUIT ROUTING, HOME RUN GROUPING, ETC., TO HIS BEST ADVANTAGE AND AS APPROVED. CONTRACTOR SHALL COORDINATE HOMERUN LOCATIONS AND AND ALL CONDUIT ROUGH-INS WITH OWNER PRIOR TO ROUGH-IN. MODIFY CONDUIT DIRECTIONS AS REQUIRED.
8. THE CONTRACTOR SHALL, IN ROUTING CONDUIT, COORDINATE HIS WORK CLOSELY WITH THE WORK TO BE PROVIDED UNDER THE MECHANICAL, PLUMBING AND ARCHITECTURAL SECTIONS.
9. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS, ETC.
10. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE RATED 20 AMPS UNLESS NOTED OTHERWISE. DUPLEX OUTLETS SHALL BE 20 AMP, 120 VOLT, (TDR20 SERIES) MOUNTED AT 18" AFF UNO. GFCI OUTLETS SHALL BE 20 AMP, 120 VOLT, (GFTR2 SERIES). WEATHERPROOF OUTLETS (WP) SHALL BE GFCI TYPE WITH RED DOT "CODE KEEPER" IN-USE COVERS LISTED "EXTRA-DUTY" PER NEC 406.9(B)(1). SWITCHES SHALL BE 20 AMP, 120/277 VOLT, MOUNTED AT 48" AFF. WHERE THE SWITCHES ARE INSTALLED AT A DOOR, THEY SHALL BE INSTALLED ON THE STRIKE SIDE OF THE DOOR. ALL DEVICES SHALL BE FLUSH MOUNTED. DEVICE PLATES SHALL BE SMOOTH POLYCARBONATE. FINISH FOR ALL WIRING DEVICES AND DEVICE PLATES SHALL BE SELECTED BY ARCHITECT.
11. OWNER RESERVES THE RIGHT TO MODIFY ALL DEVICE LOCATIONS PLUS OR MINUS 10 FT FROM LOCATION SHOWN WITHOUT COST, AS LONG AS CHANGE IS MADE PRIOR TO ROUGH-IN.
12. CATALOG NUMBERS FURNISHED HEREIN ARE PROVIDED TO SUPPLEMENT PRODUCT DESCRIPTIONS. CONTRACTOR AND SUPPLIER SHALL BE RESPONSIBLE FOR VERIFYING COMPLETENESS AND ACCURACY OF ALL PRODUCT CATALOG NUMBERS.
13. CONTRACTOR SHALL FURNISH ELECTRONIC COPIES OF SUBMITTAL DRAWINGS FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING EQUIPMENT. SUBMITTALS SHALL INCLUDE LIGHTING FIXTURES, LIGHTING CONTROLLERS, PANELBOARDS, WIRING DEVICES, DISCONNECTS, WIRE, CONDUIT, FITTINGS AND ANY OTHER MAJOR EQUIPMENT AND/OR SYSTEMS.
14. CONTRACTOR SHALL WARRANTY ALL MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM SUBSTANTIAL COMPLETION DATE. CONTRACTOR SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO OWNER, ANY MATERIALS OR WORKMANSHIP FOUND DEFECTIVE IN FIRST YEAR. ALL MATERIALS SHALL BE NEW AND SHALL BE UL LISTED.
15. ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIALS AND WORKMANSHIP PRIOR TO AND AFTER INSTALLATION THAT DO NOT COMPLY WITH CONSTRUCTION DOCUMENTS OR CODES.
16. ALL CONDUIT SHALL BE ROUTED TO MINIMIZE THE AMOUNT OF EXPOSED CONDUIT. COORDINATE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLATION. ALL EXPOSED CONDUIT SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. CONDUIT SHALL NOT BE RUN EXPOSED WITHOUT ARCHITECTURAL APPROVAL.
17. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITH SEISMIC RESTRAINT IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE REQUIREMENTS, AND AS AMENDED BY LOCAL CODE. CALCULATIONS SHALL BE PROVIDED FOR ALL EQUIPMENT ANCHORS. CALCULATIONS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. CONTRACTOR SHALL PROVIDE SEISMIC BRACING DETAILS FOR ALL CONDUITS SUPPORTED WITH INDIVIDUAL HANGERS EXCEEDING 12" IN LENGTH AND FOR ALL CONDUITS 2 1/2" AND LARGER. REFERENCE B-LINE SEISMIC RESTRAINT CATALOG FOR MULTI-DIRECTIONAL BRACING OF ELECTRICAL CONDUIT.
18. ALL PANELBOARDS SHALL BE FURNISHED WITH ENGRAVED NAMEPLATES INDICATING PANEL NAME, VOLTAGE AND PHASE. ALL PANELBOARDS SHALL BE FURNISHED WITH COPPER MAIN, GROUND AND NEUTRAL BUS. PANELS SHALL BE FULLY RATED FOR INTERRUPTING RATING LISTED IN PANEL SCHEDULE (SERIES RATING IS NOT ACCEPTABLE). PANEL FRONT SHALL BE HINGED TO PANEL CAN (DOOR IN DOOR DESIGN). PANELBOARD LABELS SHALL INDICATE THE AVAILABLE FAULT CURRENT PER NEC 110.24. NAMEPLATE LABELS FOR PANELBOARDS SUPPLIED BY A FEEDER SHALL INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES PER NEC 408.4(B).
19. ALL MODIFIED PANELBOARDS SHALL BE FURNISHED WITH NEW UPDATED CIRCUIT DIRECTORIES INDICATING ALL NEW AND EXISTING CONNECTIONS. ALL NEW BREAKERS ADDED TO EXISTING PANELS SHALL MATCH EXISTING MANUFACTURER, FRAME TYPE AND AIC RATING OF EXISTING BREAKERS. ALL MODIFICATIONS AND ADDITIONS TO EQUIPMENT SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIVES AND RECOMMENDATIONS.
20. ALL SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL BE FURNISHED WITH ENGRAVED NAMEPLATE AND GROUNDING LUG.
21. ALL PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE SEALED WITH AN APPROVED U.L. LISTED FIREPROOFING MATERIAL TO MAINTAIN THE INTEGRITY AND RATING OF THE WALL OR FLOOR PENETRATED.
22. ALL NEW OR MODIFIED JUNCTION BOXES SHALL IDENTIFY THE CIRCUITS CONTAINED WITHIN THEM. IDENTIFICATION SHALL BE BY PERMANENT MARKER OR OTHER PERMANENT MEANS AND SHALL BE LEGIBLE.
23. SHARED NEUTRAL ARE NOT PERMITTED. EACH CIRCUIT SHOULD HAVE A DEDICATED NEUTRAL.
24. ALL BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH PUTTY PADS AS REQUIRED TO MAINTAIN THE WALL RATING.
25. CONTRACTOR SHALL CHECK LOADS ON ALL EXISTING PANELS TO BE MODIFIED. CONFIRM AVAILABLE CAPACITY FOR ALL NEW LOADS IN EXISTING PANELS PRIOR TO ADDING NEW BREAKERS IN PANELS.
26. WHERE NEW LOADS ARE INDICATED TO BE CONNECTED TO EXISTING AREA CIRCUITS, CONTRACTOR TO VERIFY EXISTING LOAD AND CAPACITY OF CIRCUIT PRIOR TO MAKING NEW CONNECTIONS.
27. COORDINATE ALL SITE POWER AND COMMUNICATION CONDUIT SIZES AND ROUTING WITH UTILITY COMPANIES AND OWNER PRIOR TO ROUGH-IN. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL UTILITY FEES - COORDINATE WITH UTILITY PRIOR TO BID.

DEMOLITION NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEMOLITION OF EXISTING ELECTRICAL SYSTEMS WHERE NEW SYSTEMS ARE INDICATED TO BE INSTALLED. ALL EXISTING MAJOR COMPONENTS OF ELECTRICAL SYSTEMS NOT REQUIRED FOR THE COMPLETE PROJECT SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS NOTED OTHERWISE. ALL UNUSED CONDUIT, WIRE, HANGERS, WIRING DEVICES, ETC., ARE TO BE REMOVED. DISPOSE OF ALL FLUORESCENT LAMPS AND OTHER HAZARDOUS MATERIALS PER LOCAL, STATE AND FEDERAL GUIDELINES. INCLUDE DISPOSAL COST. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDUIT AND CUT-OFF AND CAP AT WALL WHERE CONDUIT IS NO LONGER IN USE.

LIGHTING FIXTURE SCHEDULE

Mark	Description	Manufacturer	Model	Initial Color Temperature	Electrical Data	Type Comments
A	2x2 Recessed Troffer	Lithonia	2BLT2-40L-ADP-GZ10-LP835	3500 K	120 V/1-31 VA	
C8	8' Linear	Acuity	SLOT4	4000 K	120 V/1-64 VA	
CAL	Catenary Light			3000 K	0 V/1-0 VA	
D	General Downlight	Acuity	IVO4 D 15LM MWD MIN10 MVOLT EZT P AR LD F	3500 K	120 V/1-15 VA	
D2	General High Ceiling Downlight	Acuity	IVO4 D 25LM MWD MIN10 MVOLT EZT P AR LD F	3500 K	120 V/1-25 VA	
DX	General Exterior Downlight	Acuity	IVO4 D 15LM MWD MIN10 MVOLT EZT WL P AR LD F	3500 K	120 V/1-15 VA	
F	Specialty Surface Mount	EUROFASE	WELSH 46815-040	3000 K	120 V/1-50 VA	
J	Dining Room Sconce	RBW	DIMPLE DP-WS-S1-AA04-30-10_TRIAC_120-IP20	3200 K	120 V/1-25 VA	
P30	30ft Pole	Acuity			0 V/1-0 VA	
S	4' Strip Light	Acuity	CLX L48 5000LM SEF FDL MVOLT 40K 80CRI	4000 K	120 V/1-32 VA	
S8	8' Strip Light	Acuity	CLX L96 6000LM SEF FDL MVOLT 40K 80CRI E10W	4000 K	120 V/1-38 VA	PROVIDE WITH INTEGRAL BATTERY BACKUP AND SELF DIAGNOSTIC.
SEM	Emergency 4' Strip	Acuity	CLX L48 5000LM SEF FDL MVOLT 40K 80CRI E10W	4000 K	120 V/1-32 VA	PROVIDE WITH INTEGRAL BATTERY BACKUP AND SELF DIAGNOSTIC.
SL1	Pole Light	Acuity		4000 K	120 V/1-277 VA	
SP1	Specialty Pendant			3000 K	120 V/1-50 VA	
SP2	Specialty Pendant			3000 K	120 V/1-50 VA	
SP3	Specialty Pendant			3000 K	120 V/1-50 VA	
SP4	Specialty Pendant			3000 K	120 V/1-10 VA	MOONRING
SP5	Specialty Pendant			3000 K	120 V/1-10 VA	MOONRING

FIRE ALARM DEVICE SCHEDULE

Description	Type Mark	Manufacturer	Model	Comments
HEAT DETECTOR	HD	SIEMENS	FDT421	
HORN STROBE	HS	SIEMENS	SLHSWR-F	
HORN STROBE - Low Frequency - 520 Hz	LF	SIEMENS	SLHSWR-F	
MANUAL PULL STATION	F	SIEMENS	HMS-D	
SMOKE DETECTOR	SD	SIEMENS	FDO421	
SMOKE DETECTOR WITH LF SOUNDER BASE	SB	SIEMENS	FDO421/ADHW-4S	
STROBE	S	SIEMENS	SLSWR-F	

LIGHTING DEVICE SCHEDULE

Type Mark	Description	Manufacturer	Model	Comments
F				
4	Four Way			
OD	OCCUPANCY DIMMER	ACUITY CONTROLS	WSXA PDT D	
CO	OCCUPANCY SENSOR	ACUITY CONTROLS	nCM PDT 9	
OS	OCCUPANCY SENSOR	ACUITY CONTROLS	WSXA PDT	
	SINGLE POLE	ACUITY CONTROLS	nPODMA	
S	Single Pole Single Throw Switch - Unit	Hubbell		
3	THREE WAY			

ELECTRICAL FIXTURE SCHEDULE

Type Mark	Description	Electrical Data	Manufacturer	Model	Comments
		<varies>			
	Floor Quadruplex/ Data Combo	120 V/1-360 VA		(2) 5362BK + Empty Gang for Data	
	TR Duplex GFCI Outlet mount at 18" AFF	120 V/1-180 VA	Hubbell Wiring Devices	GFTRST20*	
	TR Duplex Outlet mount at 18" AFF	120 V/1-180 VA	Hubbell Wiring Devices	5352*TR	
	TR Quadruplex Outlet mount at 18" AFF	120 V/1-360 VA	Hubbell Wiring Devices	(2) 5352*TR	
+44"-C	TR Duplex GFCI Outlet mount at 44" AFF - Counter	120 V/1-600 VA	Hubbell Wiring Devices	GFTRST20*	
14-30	Power Outlet NEMA 14-30R (Dryer) - Mount @ 36"	208 V/2-4500 VA	Hubbell Wiring Devices		
14-50	Power Outlet NEMA 14-50R (Range)	208 V/2-8000 VA	Hubbell Wiring Devices		
44"	Above Counter TR Duplex Outlet	120 V/1-180 VA	Hubbell Wiring Devices	5352*TR	
44"	SPA Hair Dryer GFCI Quad Outlet mount at 44" AFF	120 V/1-980 VA	Hubbell Wiring Devices	(2) GFTRST20*	
44"	TR Duplex GFCI Outlet mount at 44" AFF	120 V/1-180 VA	Hubbell Wiring Devices	GFTRST20*	
D	TR Duplex GFCI Outlet mount at 18" AFF - Dedicated	120 V/1-1000 VA	Hubbell Wiring Devices	GFTRST20*	
D	TR Duplex Outlet mount at 18" AFF - Dedicated	120 V/1-800 VA	Hubbell Wiring Devices	5352*TR	
EC	Elevator Controls	120 V/1-500 VA			
EF-1	Unit Ceiling Exhaust Fan	115 V/1-1012 VA			
EL	Elevator Lights	120 V/1-500 VA			
IDF	TR Quadruplex Outlet mount at 18" AFF - Dedicated	120 V/1-1200 VA	Hubbell Wiring Devices	(2) 5352*TR	
MW	Tamper Resistant Duplex Outlet - Microwave/Hood +72"	120 V/1-1000 VA	Hubbell Wiring Devices	5352*TR	
RC	Reach-In Cooler - TR Duplex GFCI Outlet mount at 18" AFF	120 V/1-800 VA	Hubbell Wiring Devices	GFTRST20*	
SP-1	Sump Pump	115 V/1-1012 VA			
SP-2	Sump Pump	115 V/1-1012 VA			
TV	Two-Gang recessed box for TV connection with Duplex TR outlet and decora connectorfor COAX/CAT6 cabling.	120 V/1-180 VA	Arlington / Hubbell	TVBS505 / 5352*TR	
V	VENDING - TR Duplex GFCI Outlet mount at 18" AFF	120 V/1-800 VA	Hubbell Wiring Devices	GFTRST20*	
WF	DRINKING STATION - TR Duplex GFCI Outlet mount at 18" AFF	120 V/1-600 VA	Hubbell Wiring Devices	GFTRST20*	
WR	TR Duplex GFCI Weather Resistant Outlet mount at 18" AFF	120 V/1-180 VA	Hubbell Wiring Devices	GF5362SG*	

ELECTRICAL EQUIPMENT SCHEDULE

Type Mark	Panel Name	Description	Electrical Data	Comments
AHU-1-1		100A Disconnect for AHU	208 V/2-19530 VA	
AHU-1-2		30A Disconnect for AHU	208 V/2-3952 VA	
AHU-1-3		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-1-4		60A Disconnect for AHU	208 V/2-8736 VA	
AHU-1-7		60A Disconnect for AHU	208 V/2-8772 VA	
AHU-1-9		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-1-10		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-2-1		60A Disconnect for AHU	208 V/2-10192 VA	
AHU-2-2		100A Disconnect for AHU	208 V/2-14684 VA	
AHU-2-3		100A Disconnect for AHU	208 V/2-14684 VA	
AHU-2-4		60A Disconnect for AHU	208 V/2-10816 VA	
AHU-2-5		100A Disconnect for AHU	208 V/2-14684 VA	
AHU-2-6		100A Disconnect for AHU	208 V/2-14684 VA	
AHU-3-1		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-3-2		60A Disconnect for AHU	208 V/2-10192 VA	
AHU-3-3		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-3-4		100A Disconnect for AHU	208 V/2-19530 VA	
AHU-4-1		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-4-2		100A Disconnect for AHU	208 V/2-14684 VA	
AHU-4-3		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-4-4		100A Disconnect for AHU	208 V/2-14996 VA	
AHU-A/B		208V 60/2/NF/SW for Furnace AHU (Units)	<varies>	
ELEV1		60A Disconnect for Elevator	208 V/3-0 VA	
ELEV2		60A Disconnect for Elevator	208 V/3-0 VA	
WH1		208V 30/2/RT/NF/SW for Water Heater WH-1	208 V/2-4500 VA	
	ATS		208 V/3-0 VA	
	EDP	SURFACE MOUNTED SQUARD "D" 600A I-LINE PANELBOARD	208 V/3-0 VA	
	EP1E	ELECTRICAL PANEL	208 V/3-0 VA	
	EP1W	ELECTRICAL PANEL	208 V/3-0 VA	
	EP3E	ELECTRICAL PANEL	208 V/3-0 VA	
	EP3W	ELECTRICAL PANEL	208 V/3-0 VA	
	LP1E	ELECTRICAL PANEL	208 V/3-0 VA	
	LP1W	ELECTRICAL PANEL	208 V/3-0 VA	
	LP2E	ELECTRICAL PANEL	208 V/3-0 VA	
	LP2W	ELECTRICAL PANEL	208 V/3-0 VA	
	LP3E	ELECTRICAL PANEL	208 V/3-0 VA	
	LP3W	ELECTRICAL PANEL	208 V/3-0 VA	
	LP4E	ELECTRICAL PANEL	208 V/3-0 VA	
	LP4W	ELECTRICAL PANEL	208 V/3-0 VA	
	MAIN-M1	SERVICE MAIN	208 V/3-0 VA	
	MAIN-M2	SERVICE MAIN	208 V/3-0 VA	
	MAIN-M3	SERVICE MAIN	208 V/3-0 VA	
	MDP1W	DISTRIBUTION PANEL	208 V/3-0 VA	
	MDP2E	DISTRIBUTION PANEL	208 V/3-0 VA	
	MDP3W	DISTRIBUTION PANEL	208 V/3-0 VA	
	MDPH	DISTRIBUTION PANEL	208 V/3-0 VA	
	MP1E	ELECTRICAL PANEL	208 V/3-0 VA	
	MP1W	ELECTRICAL PANEL	208 V/3-0 VA	
	MP2E	ELECTRICAL PANEL	208 V/3-0 VA	
	MP2W	ELECTRICAL PANEL	208 V/3-0 VA	
	MP3E	ELECTRICAL PANEL	208 V/3-0 VA	
	MP3W	ELECTRICAL PANEL	208 V/3-0 VA	
	MP4E	ELECTRICAL PANEL	208 V/3-0 VA	
	MP4W	ELECTRICAL PANEL	208 V/3-0 VA	
	RP1E	ELECTRICAL PANEL	208 V/3-0 VA	
	RP1W	ELECTRICAL PANEL	208 V/3-0 VA	
	RP2E	ELECTRICAL PANEL	208 V/3-0 VA	
	RP2W	ELECTRICAL PANEL	208 V/3-0 VA	
	RP3E	ELECTRICAL PANEL	208 V/3-0 VA	
	RP3W	ELECTRICAL PANEL	208 V/3-0 VA	
	RP4E	ELECTRICAL PANEL	208 V/3-0 VA	
	RP4W	ELECTRICAL PANEL	208 V/3-0 VA	
	TP1	Recessed 125A Load Center	208 V/2-0 VA	
	TP1D	Recessed 125A Load Center	208 V/2-0 VA	
	TP1EW	Recessed 125A Load Center	208 V/2-0 VA	
	TP1SW	Recessed 125A Load Center	208 V/2-0 VA	
	TP2	Recessed 125A Load Center	208 V/2-0 VA	
	TP2S	Recessed 125A Load Center	208 V/2-0 VA	
	TPS	Recessed 125A Load Center	208 V/2-0 VA	
	TPSE	Recessed 125A Load Center	208 V/2-0 VA	

SECURITY DEVICE SCHEDULE

Type Mark	Description	Comments
KP	Keypad Rough-In	

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

GENERAL NOTES, SCHEDULES AND LEGEND

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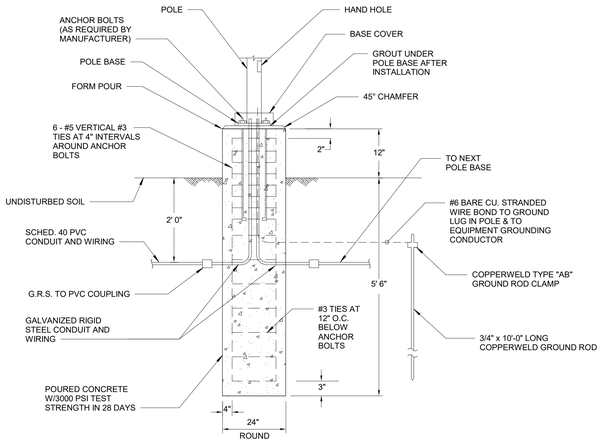
13 FEB. 2026

PHASE

Design Development

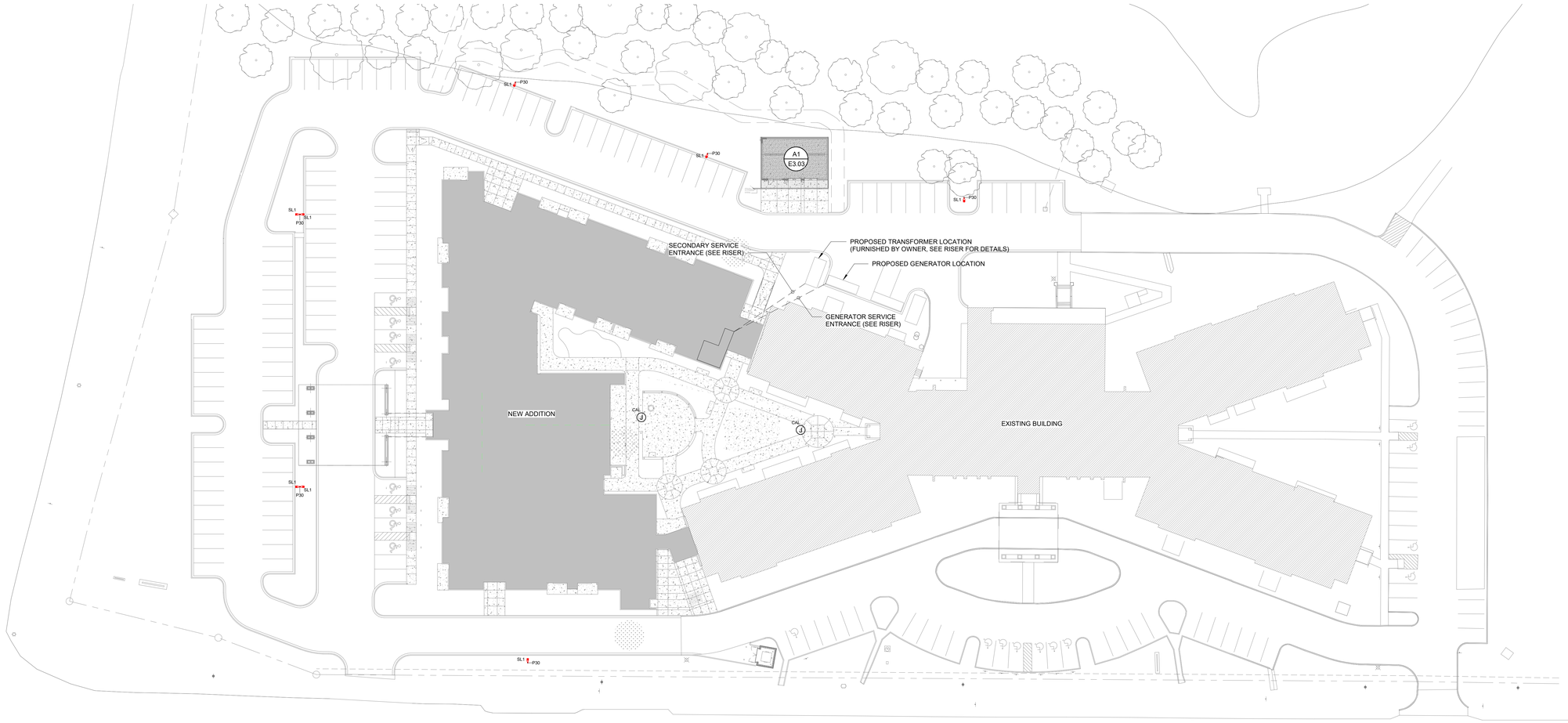
DRAWING NUMBER

E0.01



2 Light Pole Base Detail - 12" Above Grade

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



1 Site Plan - Electrical

SCALE: 1" = 30'-0"

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JOB NUMBER

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REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
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DRAWING NAME

SITE PLAN - ELECTRICAL

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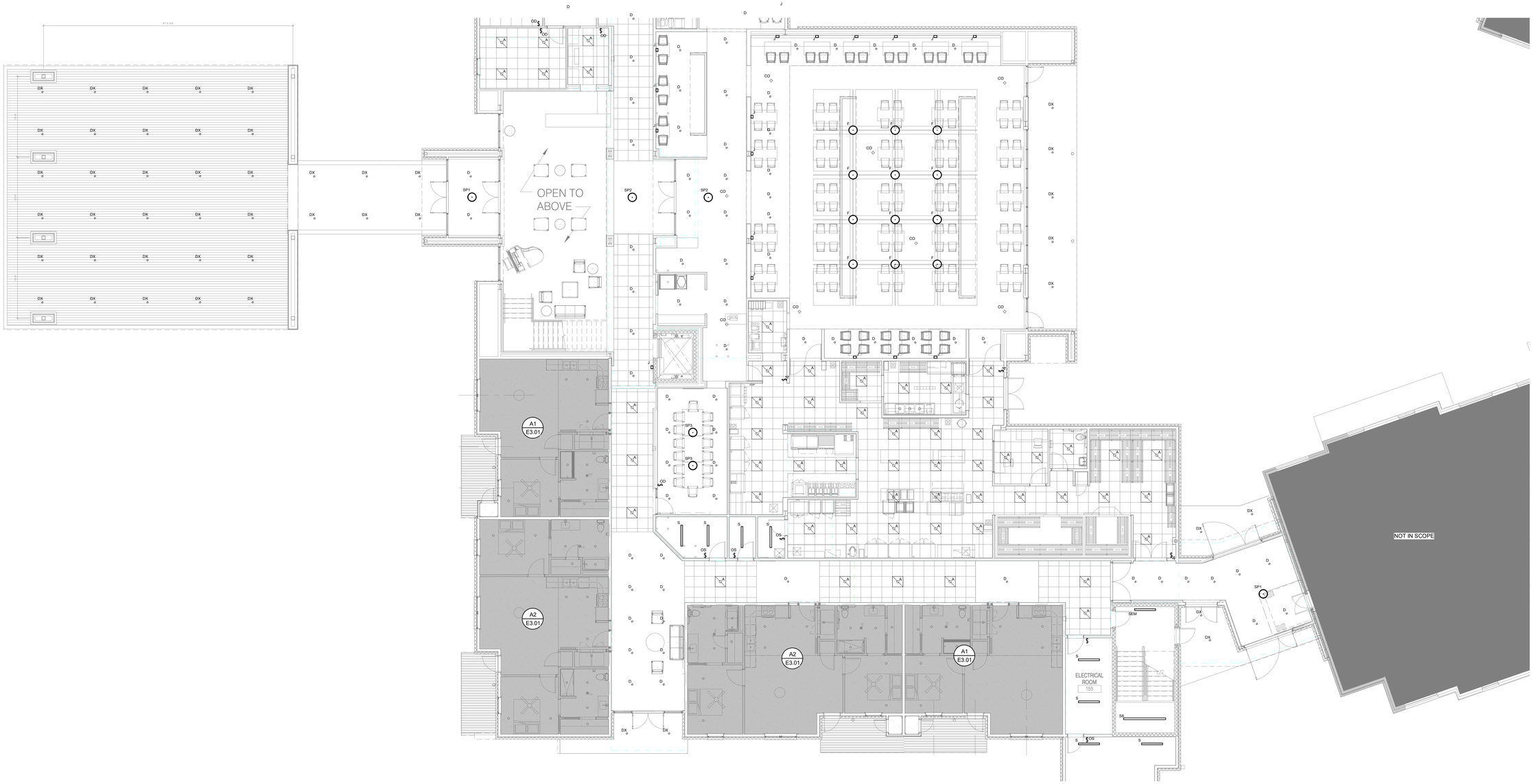
13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

E0.1



A1 PARTIAL FIRST FLOOR PLAN - LIGHTING - EAST

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

0' 2' 10' 20' 40'

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DRAWING NAME

PARTIAL FIRST FLOOR PLAN - LIGHTING - EAST

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DATE

13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

E1.11



A1 PARTIAL FIRST FLOOR PLAN - LIGHTING - WEST

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

0' 2' 10' 20' 40'

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PROJECT TITLE

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DRAWING NAME

PARTIAL FIRST FLOOR PLAN - LIGHTING - WEST

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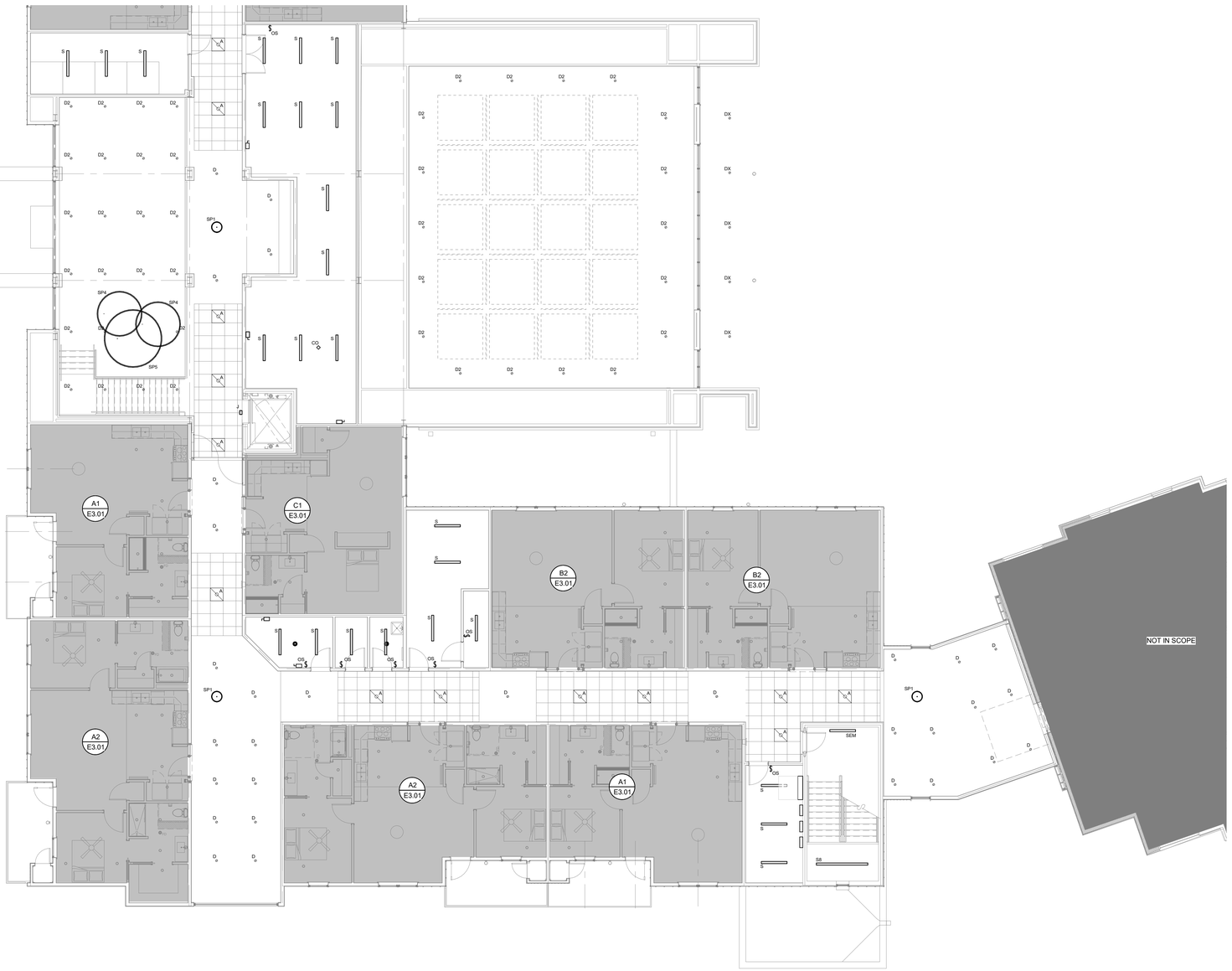
13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

E1.12



A1 PARTIAL SECOND FLOOR PLAN - LIGHTING - EAST

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

0' 2' 10' 20' 40'

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DRAWING NAME

PARTIAL SECOND FLOOR PLAN - LIGHTING - EAST

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13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

E1.21



A1 PARTIAL SECOND FLOOR PLAN - LIGHTING - WEST

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

0' 2' 10' 20' 40'

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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
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DRAWING NAME

PARTIAL SECOND FLOOR PLAN - LIGHTING - WEST

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DRAWING NUMBER

E1.22



A1 PARTIAL THIRD FLOOR PLAN - LIGHTING - EAST

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

0' 2' 10' 20' 40'

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JOB NUMBER

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REVISIONS

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DRAWING NAME

PARTIAL THIRD FLOOR PLAN - LIGHTING - EAST

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DRAWING NUMBER

E1.31



A1 PARTIAL THIRD FLOOR PLAN - LIGHTING - WEST

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PARTIAL THIRD FLOOR PLAN - LIGHTING - WEST

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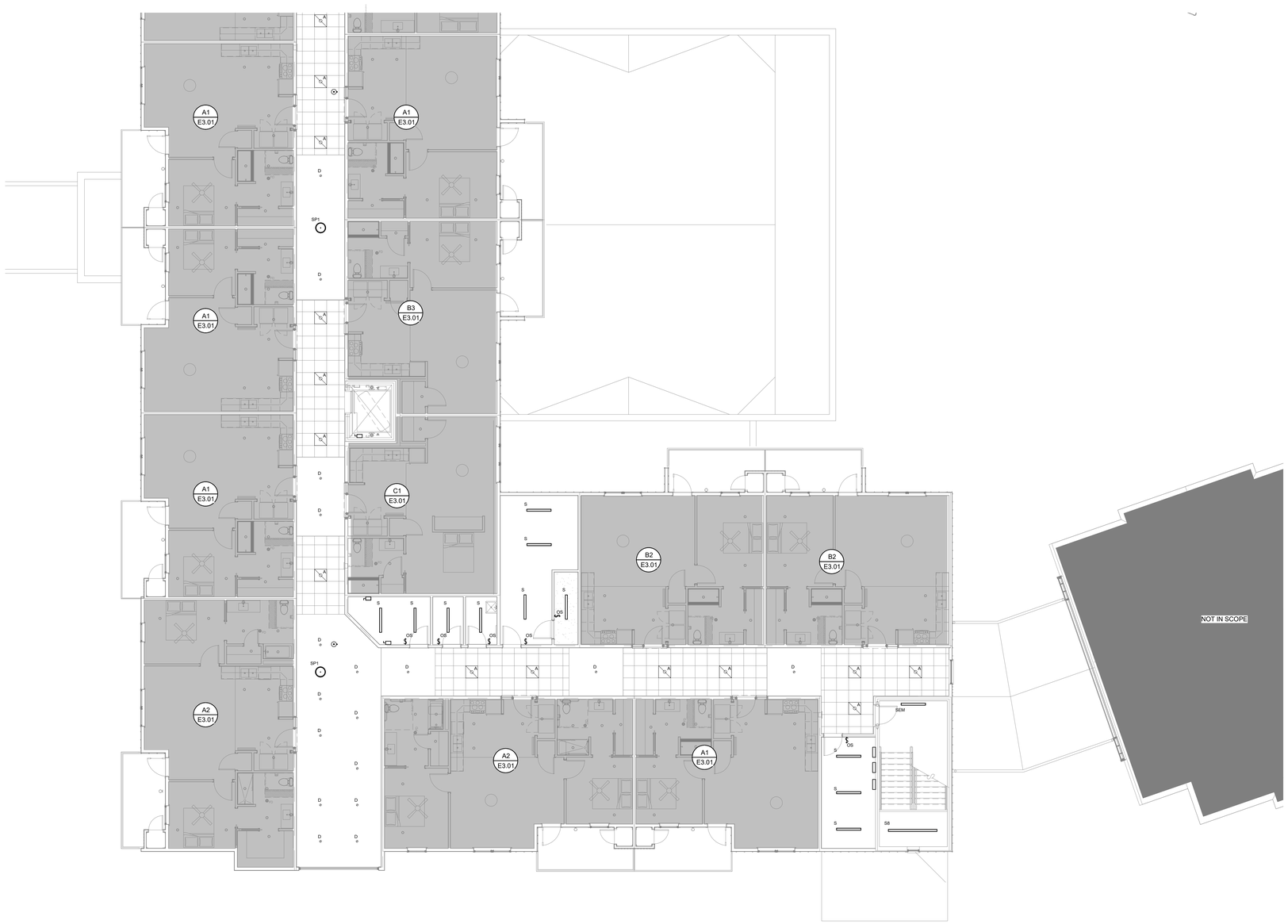
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PHASE

Design Development

DRAWING NUMBER

E1.32



A1 PARTIAL FOURTH FLOOR PLAN - LIGHTING - EAST

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

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PARTIAL FOURTH FLOOR PLAN - LIGHTING - EAST

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DRAWING NUMBER

E1.41



A1 PARTIAL FOURTH FOURTH PLAN - LIGHTING - WEST

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

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HARDING PLACE

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PARTIAL FOURTH FLOOR PLAN - LIGHTING - WEST

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Design Development

DRAWING NUMBER

E1.42



A1 Partial First Floor Plan - Electrical - East

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

0' 2' 10' 20' 40'

POWER NOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS AT MILLWORK/FURNITURE WITH ARCHITECT AND SYSTEMS SUPPLIER PRIOR TO ROUGH-IN.
2. COORDINATE EXACT LOCATION OF ALL FLOOR OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
3. CORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED TELEVISIONS/ COMPUTER MONITORS WITH THE ARCHITECT.
4. INSTANTANEOUS WATER HEATERS (IW/H) TO BE 208V, 1Ø. CIRCUIT BREAKERS SERVING IWH's TO BE PROVIDED WITH LOCK-ON/OFF HARDWARE.
5. FANS TO BE FURNISHED WITH ELECTRICAL DISCONNECT SWITCH. REFER TO DIV. 23 FAN SCHEDULE NOTES FOR FANS TO BE PROVIDED WITH RELAY FOR INTERLOCKING TO LIGHT SWITCH (EF-1), AND FANS TO BE PROVIDED WITH WALL SWITCH (EF-2 / EF-3 / EF-4).
6. INTERLOCK ACCESS CONTROLS LOCK SYSTEM WITH FIRE ALARM TO DEACTIVATE UPON ACTIVATION OF THE FIRE ALARM SYSTEM WHERE DOORS CONTROL THE EXIT PATH. REFER TO IFC 1010.2 FOR ACCESS-CONTROLLED EGRESS DOORS. COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE VENDOR/SUPPLIER.
7. PROVIDE POWER AND FIRE ALARM CONNECTIONS AS REQUIRED FOR ELEVATOR ROLL-DOWN SMOKE CURTAINS. FIELD COORDINATE EXACT REQUIREMENTS WITH SUPPLIER.

AUXILIARY NOTES:

1. SEE DIVISION 23 DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF ALL MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS AND SCHEDULES FOR QUANTITY AND LOCATION OF DUCT MOUNTED SMOKE DETECTORS AND SMOKE DAMPERS.
2. COORDINATE CONNECTION TO EACH PIECE OF EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH-IN.
3. ROUTE ALL CONDUIT TO ROOF MOUNTED EQUIPMENT THRU RESPECTIVE UNIT CURB. DO NOT PENETRATE ROOF WITH CONDUIT. DO NOT ROUTE CONDUIT EXPOSED ON ROOF.
4. LOCATIONS SHOWN FOR WP/GFI RECEPTACLE AND DISCONNECT SWITCH AT EACH UNIT ARE DIAGRAMMATIC ONLY. LOCATE EACH WHERE DIRECTED BY DIVISION 23 IN FIELD. DO NOT INSTALL RECEPTACLE OR DISCONNECT ON UNIT ACCESS COVERS. DO NOT BLOCK GAS INPUT FEED TO UNITS WITH DISCONNECT.
5. AHU'S, EXHAUST FANS, AND EWH'S TO BE FURNISHED WITH ELECTRICAL DISCONNECT SWITCH. HEAT PUMPS TO HAVE DISCONNECT FURNISHED BY ELECTRICAL CONTRACTOR. FIELD COORDINATE DISCONNECT LOCATION WITH DIVISION 23.

FIRE PUMP ROOM NOTES:

1. ALL ELECTRICAL WORK IN FIRE PUMP ROOM SHALL COMPLY WITH ARTICLE 695 OF NEC. WIRING IN FIRE PUMP ROOM SHALL BE INSTALLED IN GRS, IMC, OR SEAL-TITE CONDUIT.
2. PROVIDE FIRE ALARM CONNECTION TO FIRE PUMP CONTROLLER TO MONITOR PUMP RUNNING, PHASE LOSS, AND PHASE REVERSAL. PROVIDE FIRE ALARM CONNECTION TO FIRE PUMP FLOW AND TAMPER SWITCHES. QUANTITY AND LOCATION AS DIRECTED BY SPRINKLER SUPPLIER.
3. FIRE PUMP SHALL BE RATED 50HP, 208V, 3Ø AND SHALL BE FURNISHED WITH ULSE RATED CONTROL PANEL. PROVIDE SERVICE TO CONTROLLER FROM HOUSE METER TAP BOX. FEEDER SHALL CONSIST OF 3-#250MCM, #2GND, 2 1/2"C. FEEDER TO COMPLY WITH NEC 695.6.
4. PROVIDE 120V CONNECTION TO FIRE PROTECTION SYSTEM ELECTRIC ALARM BELL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SPRINKLER SUPPLIER.

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

PARTIAL FIRST FLOOR PLAN - POWER - EAST

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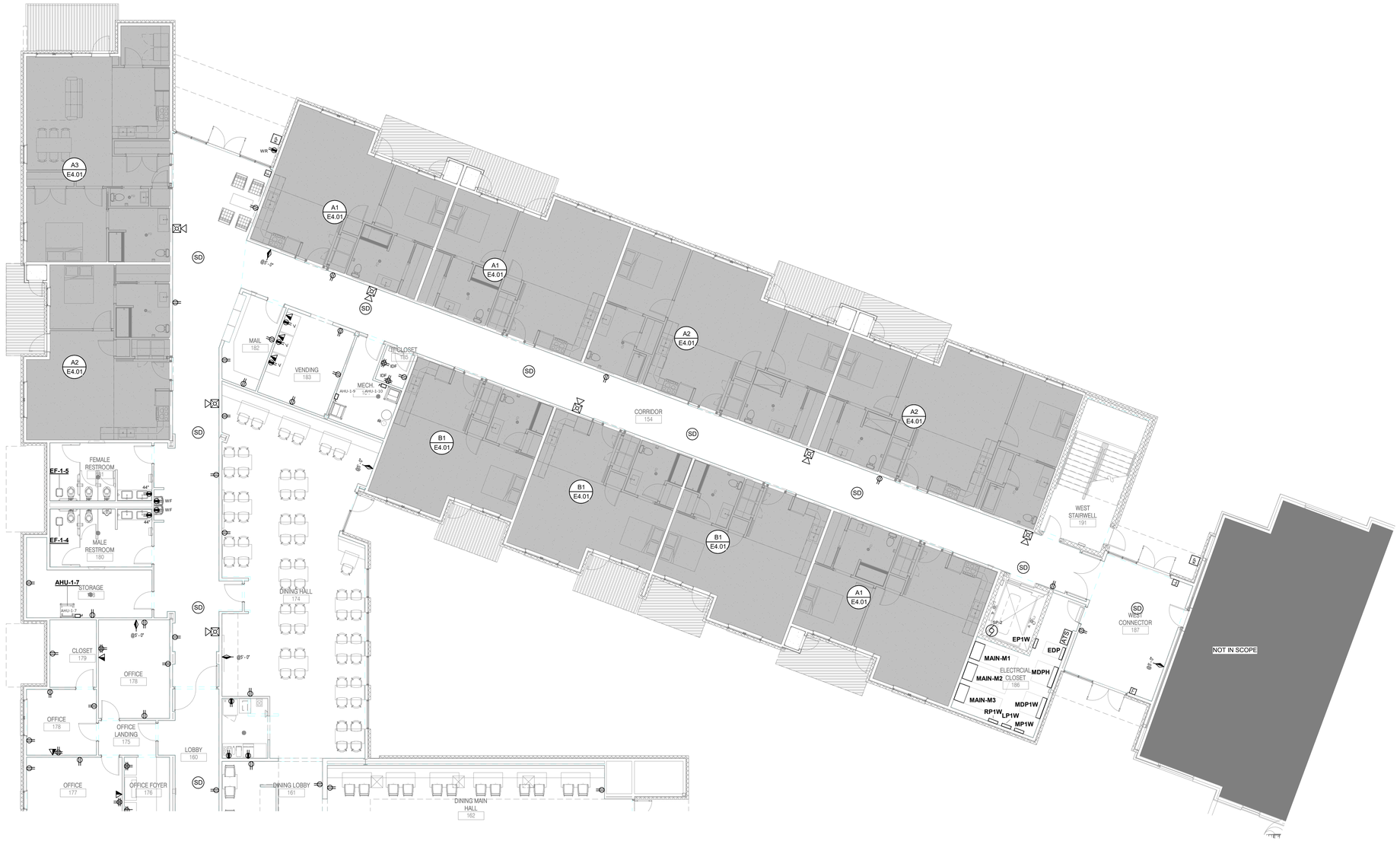
13 FEB. 2026

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Design Development

DRAWING NUMBER

E2.11



A1 Partial First Floor Plan - Electrical - West

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

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HARDING PLACE

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DRAWING NAME

PARTIAL FIRST FLOOR PLAN - POWER - WEST

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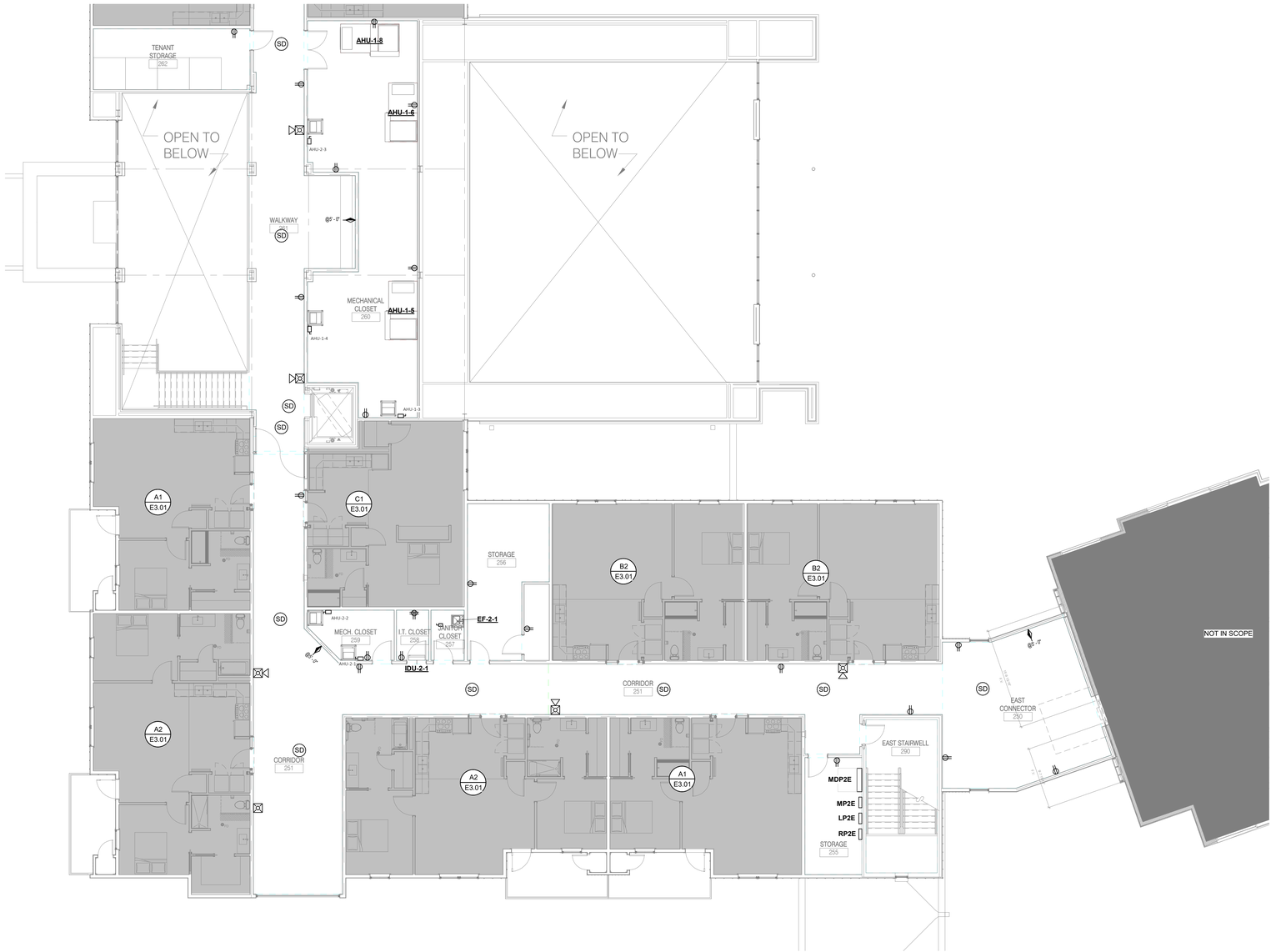
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Design Development

DRAWING NUMBER

E2.12



1 Partial Second Floor Plan - Electrical - East

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

0' 2' 10' 20' 40'

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HARDING PLACE

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DRAWING NAME

PARTIAL SECOND FLOOR PLAN - POWER - EAST

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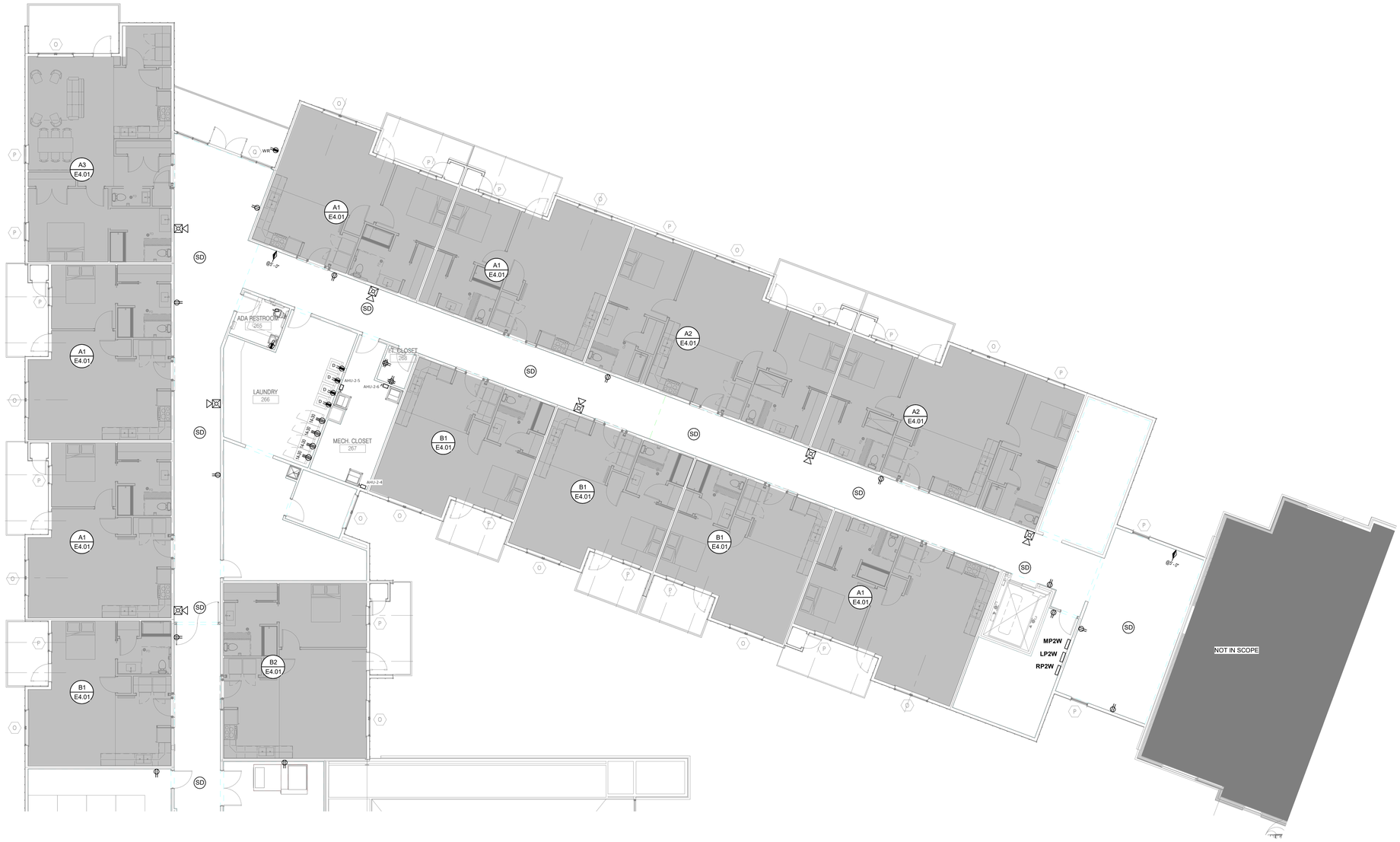
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Design Development

DRAWING NUMBER

E2.21



A1 Partial Second Floor Plan - Electrical - West

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

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801 Benton Ave,
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PARTIAL SECOND FLOOR PLAN - POWER - WEST

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E2.22



A1 Partial Third Floor Plan - Electrical - East

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

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PARTIAL THIRD FLOOR PLAN - POWER - EAST

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E2.31



A1 Partial Third Floor Plan - Electrical - West

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

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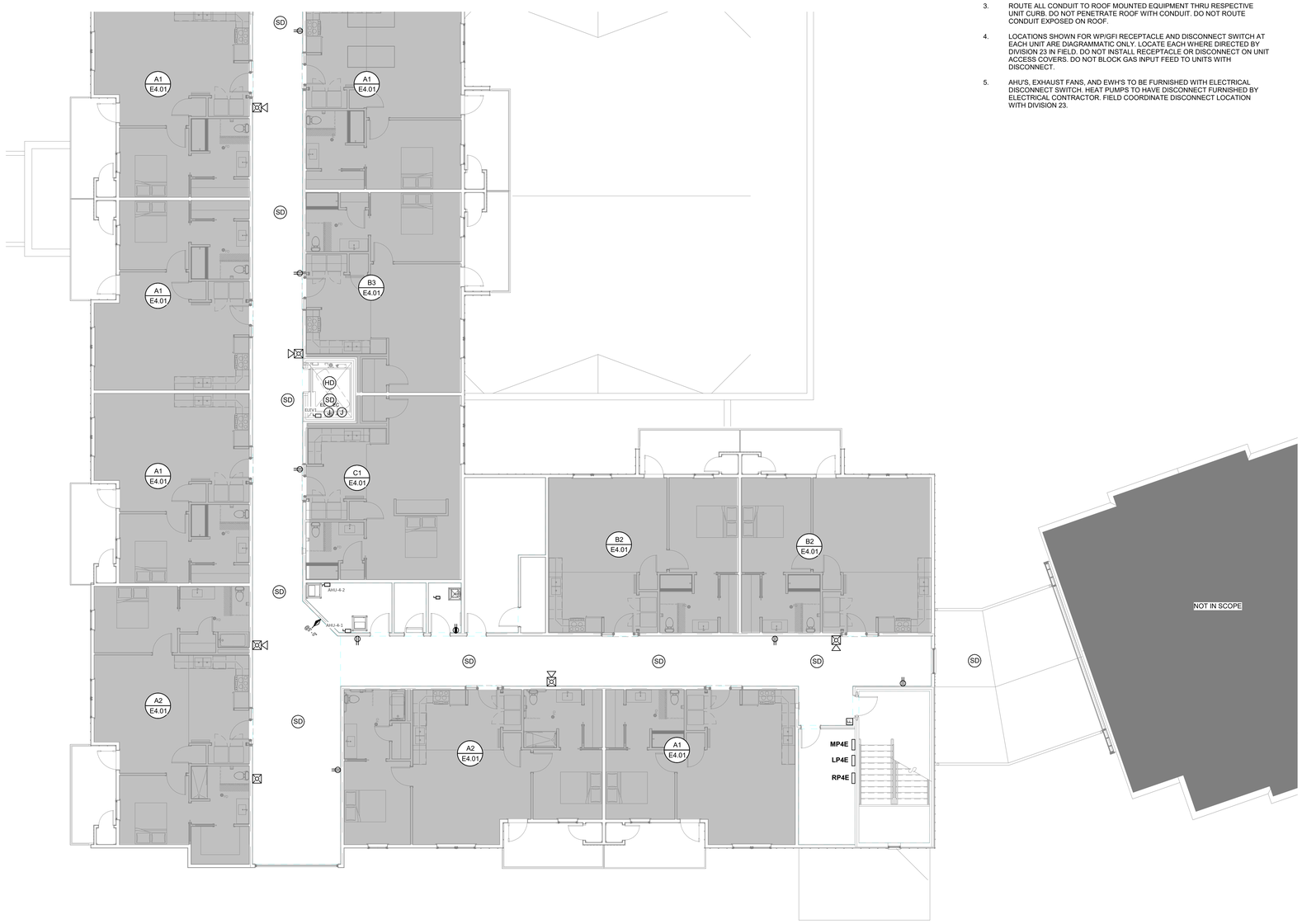
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Design Development

DRAWING NUMBER

E2.32



A1 Partial Fourth Floor Plan - Electrical - East

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

0' 2' 10' 20' 40'

POWER NOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS AT MILLWORK/FURNITURE WITH ARCHITECT AND SYSTEMS SUPPLIER PRIOR TO ROUGH-IN.
2. COORDINATE EXACT LOCATION OF ALL FLOOR OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
3. CORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED TELEVISIONS/ COMPUTER MONITORS WITH THE ARCHITECT.
4. INSTANTANEOUS WATER HEATERS (IWH) TO BE 208V, 1Ø. CIRCUIT BREAKERS SERVING IWH's TO BE PROVIDED WITH LOCK-ON/OFF HARDWARE.
5. FANS TO BE FURNISHED WITH ELECTRICAL DISCONNECT SWITCH. REFER TO DIV. 23 FAN SCHEDULE NOTES FOR FANS TO BE PROVIDED WITH RELAY FOR INTERLOCKING TO LIGHT SWITCH (EF-1), AND FANS TO BE PROVIDED WITH WALL SWITCH (EF-2 / EF-3 / EF-4).
6. INTERLOCK ACCESS CONTROLS LOCK SYSTEM WITH FIRE ALARM TO DEACTIVATE UPON ACTIVATION OF THE FIRE ALARM SYSTEM WHERE DOORS CONTROL THE EXIT PATH. REFER TO IFC 1010.2 FOR ACCESS-CONTROLLED EGRESS DOORS. COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE VENDOR/SUPPLIER.
7. PROVIDE POWER AND FIRE ALARM CONNECTIONS AS REQUIRED FOR ELEVATOR ROLL-DOWN SMOKE CURTAINS. FIELD COORDINATE EXACT REQUIREMENTS WITH SUPPLIER.

AUXILIARY NOTES:

1. SEE DIVISION 23 DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF ALL MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS AND SCHEDULES FOR QUANTITY AND LOCATION OF DUCT MOUNTED SMOKE DETECTORS AND SMOKE DAMPERS.
2. COORDINATE CONNECTION TO EACH PIECE OF EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH-IN.
3. ROUTE ALL CONDUIT TO ROOF MOUNTED EQUIPMENT THRU RESPECTIVE UNIT CURB. DO NOT PENETRATE ROOF WITH CONDUIT. DO NOT ROUTE CONDUIT EXPOSED ON ROOF.
4. LOCATIONS SHOWN FOR WP/GFI RECEPTACLE AND DISCONNECT SWITCH AT EACH UNIT ARE DIAGRAMMATIC ONLY. LOCATE EACH WHERE DIRECTED BY DIVISION 23 IN FIELD. DO NOT INSTALL RECEPTACLE OR DISCONNECT ON UNIT ACCESS COVERS. DO NOT BLOCK GAS INPUT FEED TO UNITS WITH DISCONNECT.
5. AHU'S, EXHAUST FANS, AND EWH'S TO BE FURNISHED WITH ELECTRICAL DISCONNECT SWITCH. HEAT PUMPS TO HAVE DISCONNECT FURNISHED BY ELECTRICAL CONTRACTOR. FIELD COORDINATE DISCONNECT LOCATION WITH DIVISION 23.

ELEVATOR NOTES:

1. ELEVATOR DESIGN IS BASED UPON A TKE IN-SHAFT ELEVATOR DESIGN. THE ELEVATOR CONTROLLER WILL BE MOUNTED INSIDE THE ELEVATOR DOOR FRAME, LOCATED PER MANUFACTURER. LIGHTING, POWER AND TELEPHONE CIRCITS WILL CONNECT AT THIS LOCATION. PROVIDE A SHUNT TRIP POWER DISCONNECT AND A POWER DISCONNECT FOR THE CAB LIGHTING CIRCUIT IN THE NEAREST ELECTRICAL ROOM. IN ADDITION, PROVIDE ADDITIONAL FUSED SWITCHES FOR ELEVATOR MOTOR CONTROLLER AND CAB LIGHTING CIRCUIT WHERE NOT INCLUDED WITH THE ELEVATOR CONTROLLER. THE ELEVATOR UNIT WILL BE LOCATED IN THE ELEVATOR HOISTWAY AT THE TOP FLOOR. THERE IS NOT AN ELEVATOR MACHINE ROOM.
2. COORDINATE ALL ELECTRICAL POWER AND CONTROL ROUGH-INS FOR ELEVATOR PIT AND SHAFT WITH EQUIPMENT SUPPLIERS INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE NECESSARY INTERLOCK WIRING FROM ELEVATOR CONTROLLER TO SHUNT TRIP COIL OF CIRCUIT BREAKER FEEDING ELEVATOR CONTROLLER AS DIRECTED BY THE ELEVATOR MANUFACTURER.
4. PROVIDE AUXULARY CONTACTS ON THE SHUNT TRIP BREAKERS IN PANEL SERVING THE ELEVATOR AS REQUIRED FOR CONNECTION TO THE EMERGENCY BATTERY POWER SUPPLY CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH THE ELEVATOR SUPPLIER.
5. WHEN AUTOMATIC RECOVERY UNIT IS PROVIDED, THE FUSED DISCONNECT SHALL BE FURNISHED WITH TWO AUXILIARY CONTACTS THAT ARE POSITIVELY OPENED WHEN THE DISCONNECT IS IN THE OFF POSITION. DISCONNECT TO BE PROVIDED WITH ALL ASSOCIATED WIRING AND CONDUIT TO THE CONTROLLER AS DIRECTED BY THE ELEVATOR MANUFACTURER.
6. CONNECT ELEVATOR CAB LIGHTING CIRCUIT TO THE LIGHTING DISCONNECT FURNISHED INTEGRAL TO THE ELEVATOR CONTROLLER. CAB LIGHTS SHALL NOT BE CONNECTED TO A GFCI BREAKER.
7. PROVIDE A 2FT/4FT WET LOCATION, VANDAL RESISITANT LED LIGHTING FIXTURE IN ELEVATOR PIT WHERE DIRECTED BY ELEVATOR MANUFACTURER/ SUPPLIER. INSTALL LIGHT FIXTURE AND WALL MOUNTED SWITCH WHERE DIRECTED BY ELEVATOR MANUFACTURER. PROVIDE A SIMILAR LIGHT FIXTURE, SWITCH AND OUTLET AT THE TOP FLOOR IN HOISTWAY NEAR THE CONTROLLER WHERE DIRECTED BY THE MANUFACTURER.
8. PROVIDE A WEATHERPROOF GFCI OUTLET IN PIT FOR MAINTENANCE PURPOSES. PROVIDE AN ADDITIONAL WEATHERPROOF OUTLET IN THE ELEVATOR PIT FOR A PIT SUMP PUMP.
9. PROVIDE 1" OPEN TELEPHONE CONDUIT WITH PULL STRING FROM ELEVATOR CONTROLLER TO BUILDING SERVER ROOM FOR CAB PHONE.
10. PROVIDE POWER WIRING FROM CONTROLLER TO ELEVATOR UNIT IN HOISTWAY IF THIS WIRING ISN'T FURNISHED BY THE ELEVATOR INSTALLER.
11. PROVIDE SMOKE DETECTOR IN EACH ELEVATOR LOBBY AND CONNECT AUXILIARY CONTACT TO ELEVATOR FOR INITIATION OF FIRE SERVICE RECALL. FIRE ALARM CONTROLLED PROGRAMMABLE RELAYS MAY BE USED IN PLACE OF INDIVIDUAL HARD-WIRED CONTACTS WHEN APPROVED BY ELEVATOR MANUFACTURER AND INSPECTOR.
12. PROVIDE ONE SMOKE AND ONE HEAT DETECTOR AT THE TOP OF THE SHAFT. IN ADDITION, PROVIDE ONE HEAT DETECTOR WITHIN 12" OF EACAH SPRINKLER HEAD IN THE SHAFT. COORDINATE QUANTITY OF SPRINKLER HEADS WITH SPRINKLER CONTRACTOR. DETECTORS SHALL SIGNAL CONTROLLER TO LOWER ELEVATOR CAB AND DE-ENERGIZE POWER PRIOR TO DISCHARGING WATER INTO ELEVATOR SHAFT.
13. POWER TO ELEVATOR CONTROLLER SHALL BE DE-ENERGIZED BEFORE SPRINKLER SOLENOIDS ARE OPENED AND WATER IS DIS-CHARGED INTO HOISTWAY. FURNISH AND INSTALL ALL NECESSARY INTERLOCK WIRING AS REQUIRED BY LOCAL CODE AND ELEVATOR CODE. COORDINATE EXACT WIRING REQUIREMENTS WITH LOCAL CODE OFFICIALS.
14. PROVIDE 120 VOLT CONNECTION TO SPRINKLER SYSTEM SOLENOID VALVES IF REQUIRED. PROVIDE ALL ASSOCIATED FIRE ALARM EQUIPMENT, POWER SUPPLIES, PROGRAMMING, CONNECTIONS, ETC. REQUIRED FOR SOLENOID INSTALLATION. COORDINATE WITH SPRINKLER CONTRACTOR IN FIELD FOR NUMBER OF SOLENOIDS AND TAMPER SWITCHES.

ELEVATOR - 208V CONNECTIONS:

1. ELEVATOR TO BE RATED 15HP, 208V, 3Ø. PROVIDE 60/3/F/SW FOR ELEVATOR WITH TIME DELAY, CURRENT LIMITING CLASS J OR EQUIVALENT FUSES. CONNECT TO SHUNT TRIP CB SERVING THE ELEVATOR AND TO CONTROLLER WITH MINIMUM OF 3-#6, #6GND, IN 1"C. FUSE AT 60A OR AS DIRECTED BY THE ELEVATOR SUPPLIER.
2. 30/2/F/SW FOR ELEVATOR CAB LIGHTING
3. PROVIDE REMOTE FUSED DISCONNECT SWITCHES FOR ELEVATOR CONTROLLER AND CAB LIGHTING IN NEAREST ELECTRICAL ROOM PER NEC 620.51 WHERE THE CONTROLLER IS LOCATED IN THE HOISTWAY.

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

PARTIAL FOURTH FLOOR PLAN - POWER - EAST

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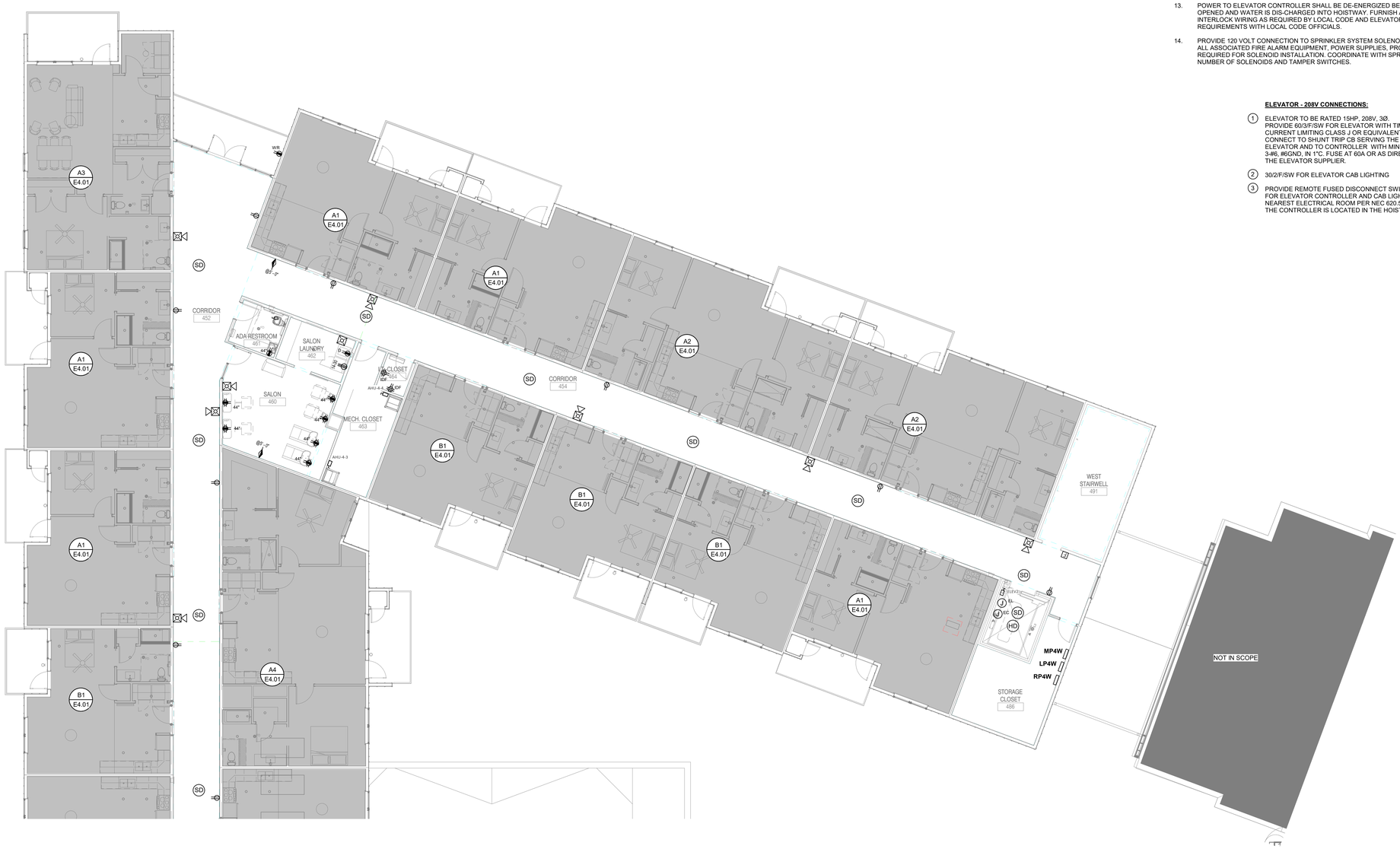
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Design Development

DRAWING NUMBER

E2.41



A1 Partial Fourth Floor Plan - Electrical - West

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

0' 2' 10' 20' 40'

POWER NOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS AT MILLWORK/FURNITURE WITH ARCHITECT AND SYSTEMS SUPPLIER PRIOR TO ROUGH-IN.
2. COORDINATE EXACT LOCATION OF ALL FLOOR OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
3. CORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED TELEVISIONS/ COMPUTER MONITORS WITH THE ARCHITECT.
4. INSTANTANEOUS WATER HEATERS (IWH) TO BE 208V, 1Ø. CIRCUIT BREAKERS SERVING IWH's TO BE PROVIDED WITH LOCK-ON/OFF HARDWARE.
5. FANS TO BE FURNISHED WITH ELECTRICAL DISCONNECT SWITCH. REFER TO DIV. 23 FAN SCHEDULE NOTES FOR FANS TO BE PROVIDED WITH RELAY FOR INTERLOCKING TO LIGHT SWITCH (EF-1), AND FANS TO BE PROVIDED WITH WALL SWITCH (EF-2 / EF-3 / EF-4).
6. INTERLOCK ACCESS CONTROLS LOCK SYSTEM WITH FIRE ALARM TO DEACTIVATE UPON ACTIVATION OF THE FIRE ALARM SYSTEM WHERE DOORS CONTROL THE EXIT PATH. REFER TO IFC 1010.2 FOR ACCESS-CONTROLLED EGRESS DOORS. COORDINATE ALL REQUIREMENTS WITH DOOR HARDWARE VENDOR/SUPPLIER.
7. PROVIDE POWER AND FIRE ALARM CONNECTIONS AS REQUIRED FOR ELEVATOR ROLL-DOWN SMOKE CURTAINS. FIELD COORDINATE EXACT REQUIREMENTS WITH SUPPLIER.

AUXILIARY NOTES:

1. SEE DIVISION 23 DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF ALL MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS AND SCHEDULES FOR QUANTITY AND LOCATION OF DUCT MOUNTED SMOKE DETECTORS AND SMOKE DAMPERS.
2. COORDINATE CONNECTION TO EACH PIECE OF EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH-IN.
3. ROUTE ALL CONDUIT TO ROOF MOUNTED EQUIPMENT THRU RESPECTIVE UNIT CURB. DO NOT PENETRATE ROOF WITH CONDUIT. DO NOT ROUTE CONDUIT EXPOSED ON ROOF.
4. LOCATIONS SHOWN FOR WP/GFI RECEPTACLE AND DISCONNECT SWITCH AT EACH UNIT ARE DIAGRAMMATIC ONLY. LOCATE EACH WHERE DIRECTED BY DIVISION 23 IN FIELD. DO NOT INSTALL RECEPTACLE OR DISCONNECT ON UNIT ACCESS COVERS. DO NOT BLOCK GAS INPUT FEED TO UNITS WITH DISCONNECT.
5. AHU'S, EXHAUST FANS, AND EWH'S TO BE FURNISHED WITH ELECTRICAL DISCONNECT SWITCH. HEAT PUMPS TO HAVE DISCONNECT FURNISHED BY ELECTRICAL CONTRACTOR. FIELD COORDINATE DISCONNECT LOCATION WITH DIVISION 23.

ELEVATOR NOTES:

1. ELEVATOR DESIGN IS BASED UPON A TKE IN-SHAFT ELEVATOR DESIGN. THE ELEVATOR CONTROLLER WILL BE MOUNTED INSIDE THE ELEVATOR DOOR FRAME, LOCATED PER MANUFACTURER. LIGHTING, POWER AND TELEPHONE CIRCITS WILL CONNECT AT THIS LOCATION. PROVIDE A SHUNT TRIP POWER DISCONNECT AND A POWER DISCONNECT FOR THE CAB LIGHTING CIRCUIT IN THE NEAREST ELECTRICAL ROOM. IN ADDITION, PROVIDE ADDITIONAL FUSED SWITCHES FOR ELEVATOR MOTOR CONTROLLER AND CAB LIGHTING CIRCUIT WHERE NOT INCLUDED WITH THE ELEVATOR CONTROLLER. THE ELEVATOR UNIT WILL BE LOCATED IN THE ELEVATOR HOISTWAY AT THE TOP FLOOR. THERE IS NOT AN ELEVATOR MACHINE ROOM.
2. COORDINATE ALL ELECTRICAL POWER AND CONTROL ROUGH-INS FOR ELEVATOR PIT AND SHAFT WITH EQUIPMENT SUPPLIERS INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE NECESSARY INTERLOCK WIRING FROM ELEVATOR CONTROLLER TO SHUNT TRIP COIL OF CIRCUIT BREAKER FEEDING ELEVATOR CONTROLLER AS DIRECTED BY THE ELEVATOR MANUFACTURER.
4. PROVIDE AUXULARY CONTACTS ON THE SHUNT TRIP BREAKERS IN PANEL SERVING THE ELEVATOR AS REQUIRED FOR CONNECTION TO THE EMERGENCY BATTERY POWER SUPPLY CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH THE ELEVATOR SUPPLIER.
5. WHEN AUTOMATIC RECOVERY UNIT IS PROVIDED, THE FUSED DISCONNECT SHALL BE FURNISHED WITH TWO AUXILIARY CONTACTS THAT ARE POSITIVELY OPENED WHEN THE DISCONNECT IS IN THE OFF POSITION. DISCONNECT TO BE PROVIDED WITH ALL ASSOCIATED WIRING AND CONDUIT TO THE CONTROLLER AS DIRECTED BY THE ELEVATOR MANUFACTURER.
6. CONNECT ELEVATOR CAB LIGHTING CIRCUIT TO THE LIGHTING DISCONNECT FURNISHED INTEGRAL TO THE ELEVATOR CONTROLLER. CAB LIGHTS SHALL NOT BE CONNECTED TO A GFCI BREAKER.
7. PROVIDE A 2FT/4FT WET LOCATION, VANDAL RESISITANT LED LIGHTING FIXTURE IN ELEVATOR PIT WHERE DIRECTED BY ELEVATOR MANUFACTURER/ SUPPLIER. INSTALL LIGHT FIXTURE AND WALL MOUNTED SWITCH WHERE DIRECTED BY ELEVATOR MANUFACTURER. PROVIDE A SIMILAR LIGHT FIXTURE, SWITCH AND OUTLET AT THE TOP FLOOR IN HOISTWAY NEAR THE CONTROLLER WHERE DIRECTED BY THE MANUFACTURER.
8. PROVIDE A WEATHERPROOF GFCI OUTLET IN PIT FOR MAINTENANCE PURPOSES. PROVIDE AN ADDITIONAL WEATHERPROOF OUTLET IN THE ELEVATOR PIT FOR A PIT SUMP PUMP.
9. PROVIDE 1" OPEN TELEPHONE CONDUIT WITH PULL STRING FROM ELEVATOR CONTROLLER TO BUILDING SERVER ROOM FOR CAB PHONE.
10. PROVIDE POWER WIRING FROM CONTROLLER TO ELEVATOR UNIT IN HOISTWAY IF THIS WIRING ISN'T FURNISHED BY THE ELEVATOR INSTALLER.
11. PROVIDE SMOKE DETECTOR IN EACH ELEVATOR LOBBY AND CONNECT AUXILIARY CONTACT TO ELEVATOR FOR INITIATION OF FIRE SERVICE RECALL. FIRE ALARM CONTROLLED PROGRAMMABLE RELAYS MAY BE USED IN PLACE OF INDIVIDUAL HARD-WIRED CONTACTS WHEN APPROVED BY ELEVATOR MANUFACTURER AND INSPECTOR.
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JOB NUMBER

25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

PARTIAL FOURTH FLOOR PLAN - POWER - WEST

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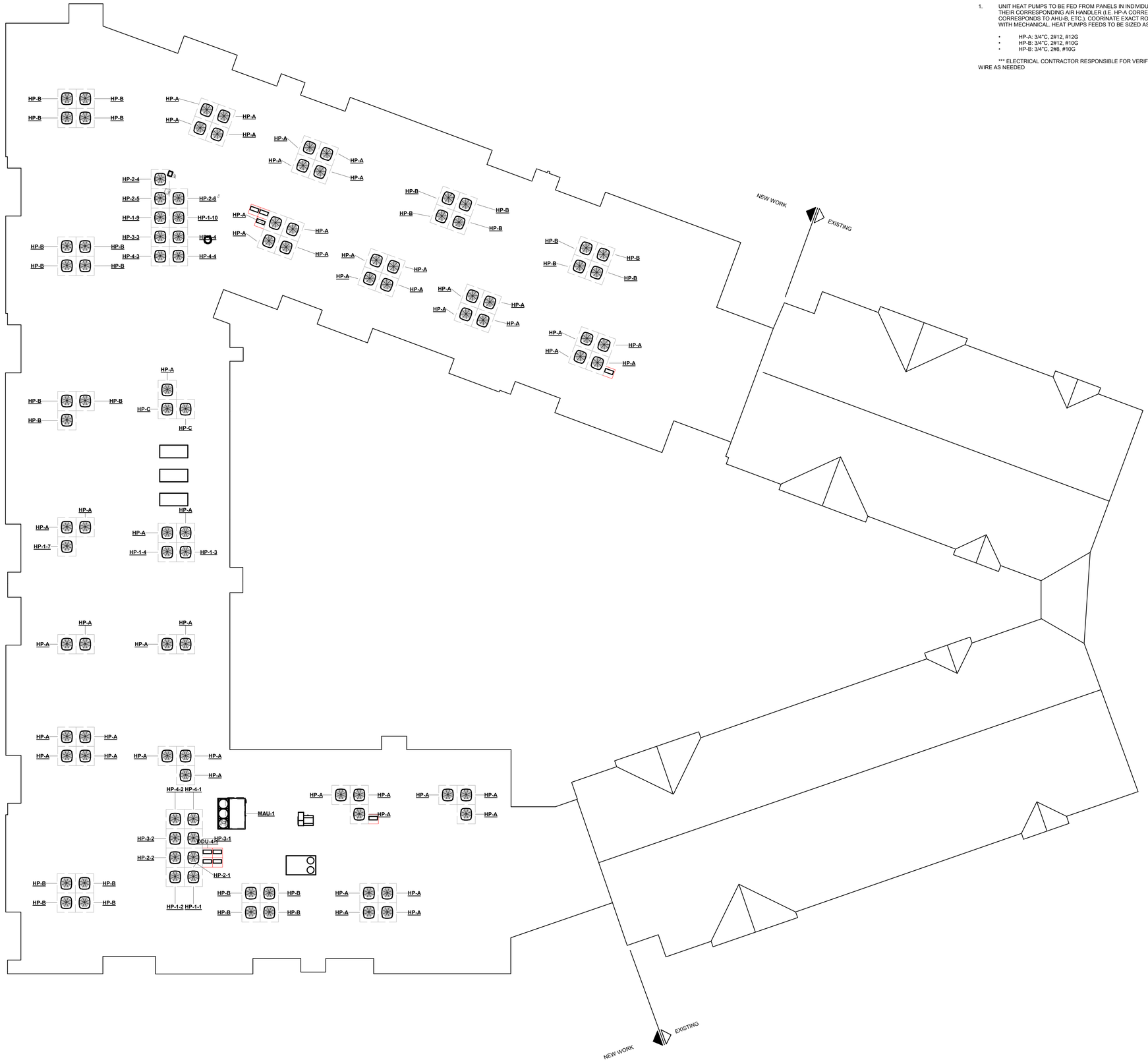
E2.42

NOTES:

1. UNIT HEAT PUMPS TO BE FED FROM PANELS IN INDIVIDUAL UNITS BELOW THAT CONTAIN THEIR CORRESPONDING AIR HANDLER (I.E. HP-A CORRESPONDS TO AHU-A, HP-B CORRESPONDS TO AHU-B, ETC.). COORINATE EXACT ROOMS AND DISCONNECT PROVISIONS WITH MECHANICAL. HEAT PUMPS FEEDS TO BE SIZED AS FOLLOWS:

   - HP-A: 3/4"C, 2#12, #12G
   - HP-B: 3/4"C, 2#12, #10G
   - HP-B: 3/4"C, 2#8, #10G

*** ELECTRICAL CONTRACTOR RESPONSIBLE FOR VERIFYING VOLTAGE DROP AND UPSIZING WIRE AS NEEDED



A1 Roof Plan - Electrical

SCALE: 3/32" = 1'-0"

0' 4' 20' 40' 80'

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PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

ROOF PLAN - POWER

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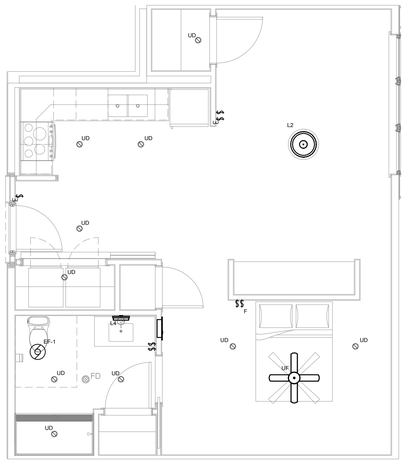
Design Development

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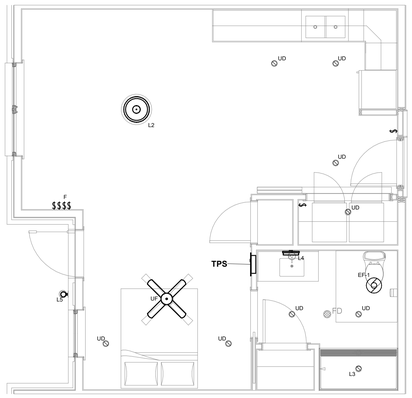
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LIGHTING FIXTURE SCHEDULE - UNITS

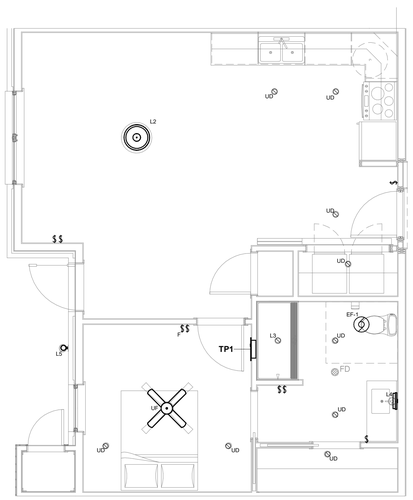
Mark	Description	Manufacturer	Model	Lamp	Initial Color Temperature	Electrical Data	Type Comments
L2	Pendant mounted Unit Light				3000 K	120 V/1-100 VA	
L3	7" surface mount round panel light with die-cast aluminum trim, TRIAC dimming and field selectable CCT. Furnish with wet location listing.	ALS - Advantage Lighting Solutions	SMPR-G2-7-9SC-WH-S	LED	3000 K	120 V/1-18 VA	
L4	Wall mounted unit Vanity Light			LED	3000 K	120 V/1-17 VA	
L5	Wall mounted exterior unit sconce			LED	3000 K	120 V/1-13 VA	
L6	Wall mounted unit Vanity Light - Powder Room			LED	3000 K	120 V/1-17 VA	
UD	7" surface mount round panel light with die-cast aluminum trim, TRIAC dimming and field selectable CCT.	ALS - Advantage Lighting Solutions	SMPR-G2-7-9SC-WH-S	LED	3000 K	120 V/1-15 VA	
UF	Ceiling hung smart fan/light unit with 52" sweep, wall mounted bluetooth control, and finish per Architect.	Modern Forms	FH-W1803-52L-*-*	LED	3000 K	120 V/1-50 VA	



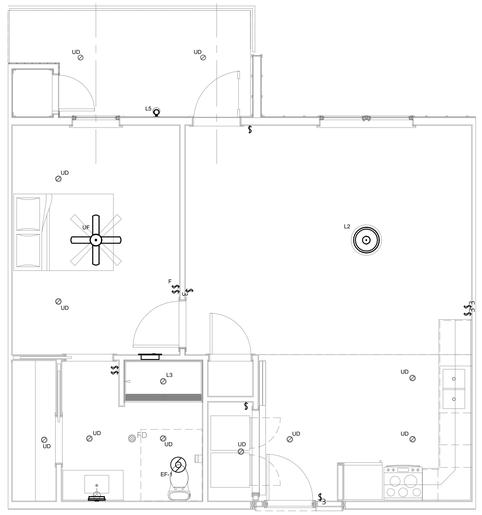
C1 Enlarged Plan - Studio - Elevator
SCALE: 1/4" = 1'-0"



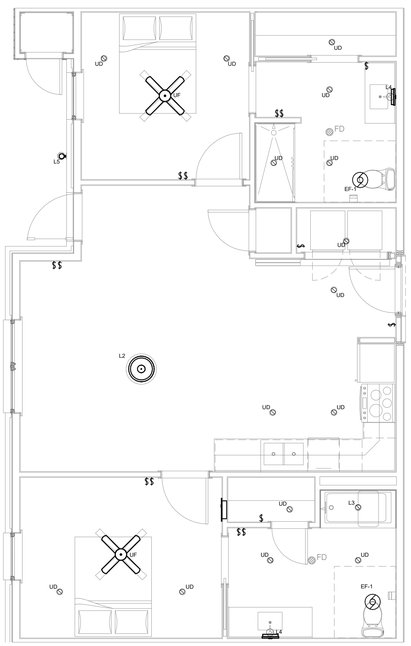
B1 Enlarged Plan - Studio Unit
SCALE: 1/4" = 1'-0"



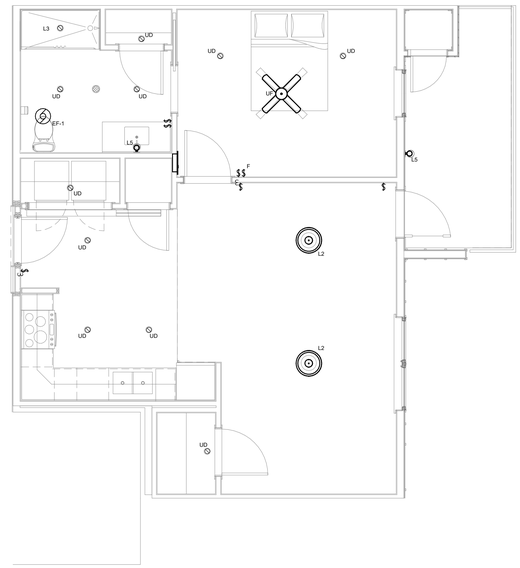
A1 Enlarged Plan - 1-Bd Unit
SCALE: 1/4" = 1'-0"



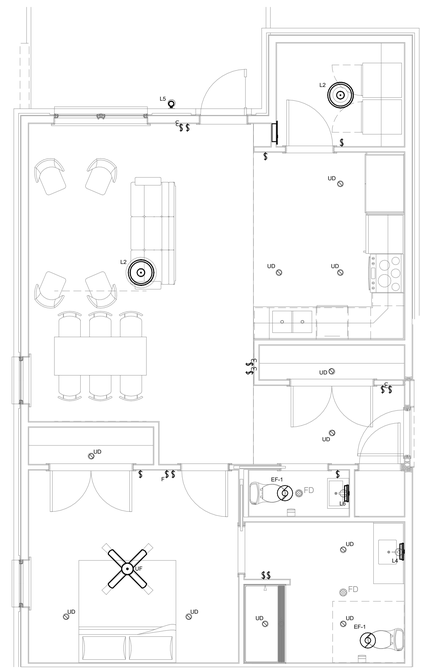
B2 Enlarged Plan - 1-Bd - Outer Balcony
SCALE: 1/4" = 1'-0"



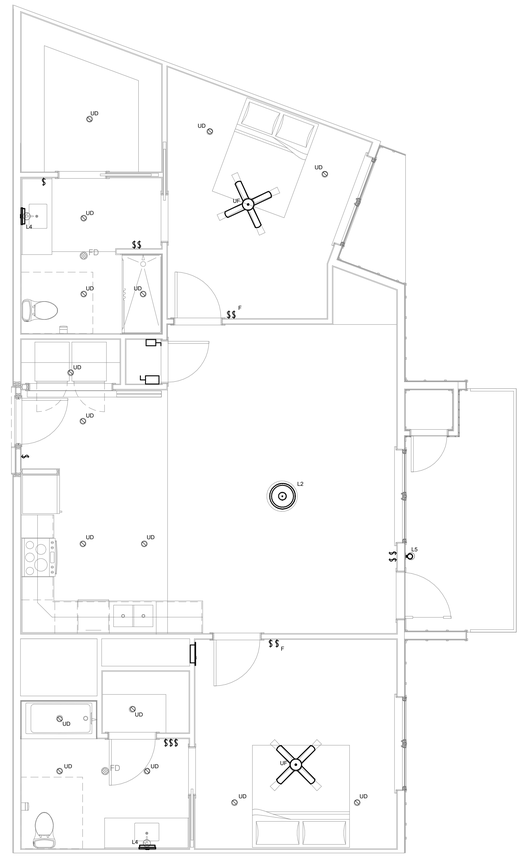
A2 Enlarged Plan - 2-Bd Unit
SCALE: 1/4" = 1'-0"



B3 Enlarged Plan - 1-Bd - Elevator
SCALE: 1/4" = 1'-0"



A3 Enlarged Plan - 1-Bd Suite
SCALE: 1/4" = 1'-0"



A4 Enlarged Plan - 2-Bd Suite
SCALE: 1/4" = 1'-0"

APARTMENT CONSTRUCTION NOTES:

1. ALL WIRING DEVICES IN APARTMENT UNITS SHALL BE DECORA STYLE, ALL OUTLETS SHALL BE TAMPER RESISTANT. FINISH FOR WIRING DEVICES AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.
2. CONVENIENCE OUTLETS SHALL BE INSTALLED ON WALLS 24" OR MORE IN LENGTH. OUTLETS SHALL BE INSTALLED NO MORE THAN 6 FT FROM END OF ANY WALL AND NO MORE THAN 12 FT ON CENTER. INSTALL OUTLETS AS CLOSE AS POSSIBLE TO LOCATIONS SHOWN. MODIFY LOCATIONS AS REQUIRED TO COORDINATE WITH WALL STUDS.
3. KITCHEN OUTLETS SHALL BE INSTALLED AT EACH WALL COUNTERTOP SPACE THAT IS 12" OR WIDER. OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24" FROM AN OUTLET AT THE COUNTERTOP SPACE.
4. COORDINATE MOUNTING HEIGHT AND LOCATION OF ALL OUTLETS AT KITCHEN COUNTER/MILLWORK WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SUPPLIER.
5. PROVIDE SPST FOR TOP HALF OF DISPOSAL/DW OUTLET TO CONTROL DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
6. OUTLETS LOCATED ON WALLS SEPARATING APARTMENT UNITS SHALL BE OFFSET BY ONE STUD SPACE TO MINIMIZE NOISE TRANSMISSION BETWEEN AND FOR FIRE RATING UNITS.
7. PP INDICATES A PATCH PANEL/MEDIA DISTRIBUTION ENCLOSURE FOR VOICE, DATA AND CABLE TV WITHIN EACH APARTMENT UNIT. PROVIDE 1 1/4" OPEN CONDUIT FROM EACH PANEL TO IDF ROOM EQUIPMENT BACKBOARD ON ASSOCIATED FLOOR OF APARTMENT BUILDING. THE PATCH PANEL SHALL BE EQUAL TO PRIMEX P3000ND. CONTRACTOR TO PROVIDE A DUPLEX OUTLET AT THE PANEL FOR EQUIPMENT CONNECTIONS. SPECIFICS OF THE WIRING WITHIN THE APARTMENT, AND WIRING FROM APARTMENT TO IDF ROOM SHALL BE DESIGNED AND SPECIFIED BY OTHERS.
8. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
9. ALL LIGHTING CONTROLS AND OUTLETS IN APARTMENT UNITS SHALL BE NO HIGHER THAN 46" AFF TO TOP OF BOX AND NO LOWER THAN 16" AFF TO BOTTOM OF BOX.
10. RESIDENTIAL SMOKE DETECTORS SHALL BE LOCATED IN EVERY SLEEPING AREA AND OUTSIDE EACH SLEEPING AREA. DETECTORS SHALL BE LOCALLY ALARMING, INTERCONNECT SO THAT WHEN ANY SINGLE DEVICE IS IN ALARM, ALL DEVICES IN THAT APARTMENT SHALL ALARM. DETECTORS MUST BE INSTALLED A MINIMUM OF 3 FT AWAY FROM ANY SUPPLY OR RETURN AIR GRILL AND 3FT FROM THE TIP OF ANY CEILING FAN. DEVICES SHALL BE SYSTEM CONNECTED WITH 520HZ SOUNDER BASE AND SHALL SOUND LOCAL ALARM ONLY. DEVICES SHALL SEND TROUBLE SIGNAL TO FACP.
11. FIRE ALARM SYSTEM NOTIFICATION DEVICES LOCATED IN APARTMENTS SHALL PROVIDE 520HZ TONE COMPLIANT WITH NFPA 72, 18.4.6.3, LOW FREQUENCY SIGNAL REQUIREMENTS FOR SLEEPING AREAS.
12. COORDINATE LOCATION OF APARTMENT WATER HEATERS WITH PLUMBING CONTRACTOR.
13. CEILING SYSTEMS AND WALLS IN UNITS TO BE RATED ASSEMBLIES. PROVIDE FIRE RATED PUTTY PADS BEHIND ALL BOXES INSTALLED IN RATED WALLS AND CEILINGS. FILL PENETRATIONS WITH FIRE CAULK TO MAINTAIN FIRE RATINGS.
14. FANS EF-1 TO BE CONNECTED TO BATHROOM LIGHTING CIRCUIT AND INTERLOCKED WITH TUB/SHOWER SWITCH.
15. HIGH/LOW TV OUTLET EXACT LOCATIONS TO BE COORDINATED WITH THE ARCHITECT/ OWNER. HIGH DUPLEX AND CABLE/COAX OUTLET TO BE MOUNTED AT 54" AFF. LOW OUTLETS TO BE INSTALLED DIRECTLY BELOW.
16. FOR COMMUNICATION CABLING, PROVIDE (1) CAT6 RUN AND (1) COAX CABLE RUN FROM THE DEMARC PANEL TO EACH OF THE UNIT TV LOCATIONS. PROVIDE (2) RUNS OF CAT6 CABLE FROM THE UNIT DEMARC PANEL TO EACH DATA DROP SHOWN.
17. ALL PERMANENTLY INSTALLED LIGHTS IN DWELLING UNITS SHALL BE PROVIDED WITH DIMMERS (OR OCCUPANCY SENSORS) TO COMPLY WITH IECC. DIMMER TYPE TO MATCH LIGHTING DRIVER.
18. CEILING FAN CONTROLLERS SHALL BE COORDINATED WITH FAN REQUIREMENTS.

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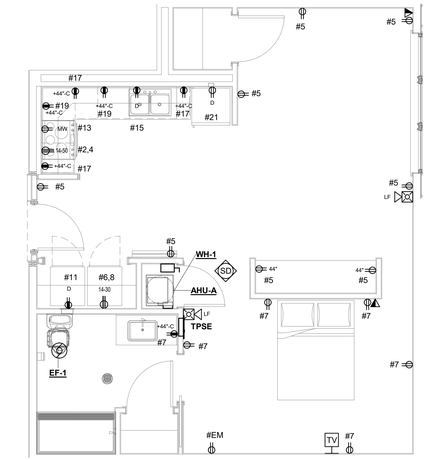
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ENLARGED UNIT PLANS - LIGHTING

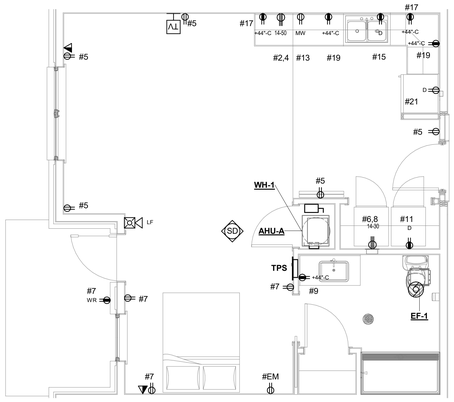
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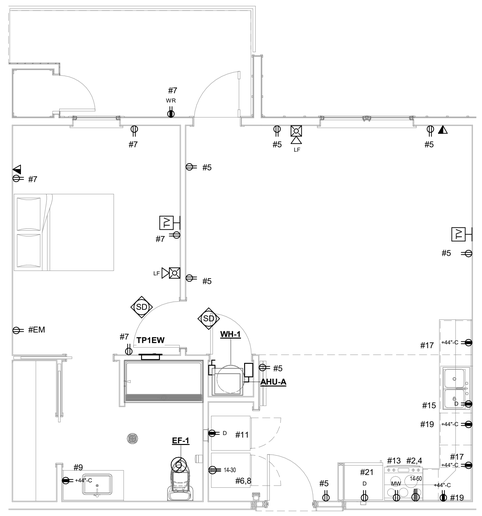
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DRAWING NUMBER
E3.01



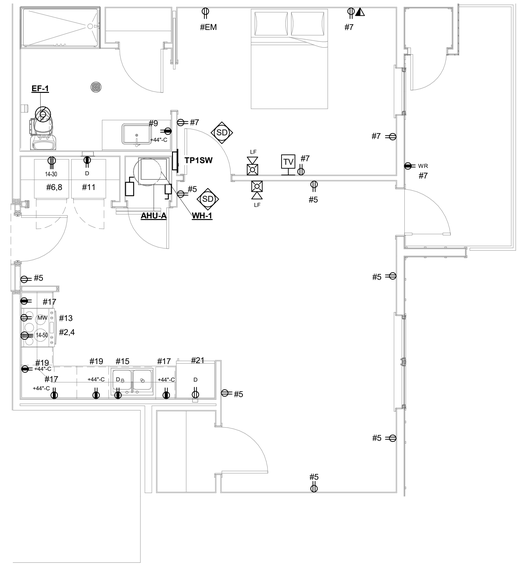
C1 Enlarged Plan - Studio - Elevator
SCALE: 1/4" = 1'-0"



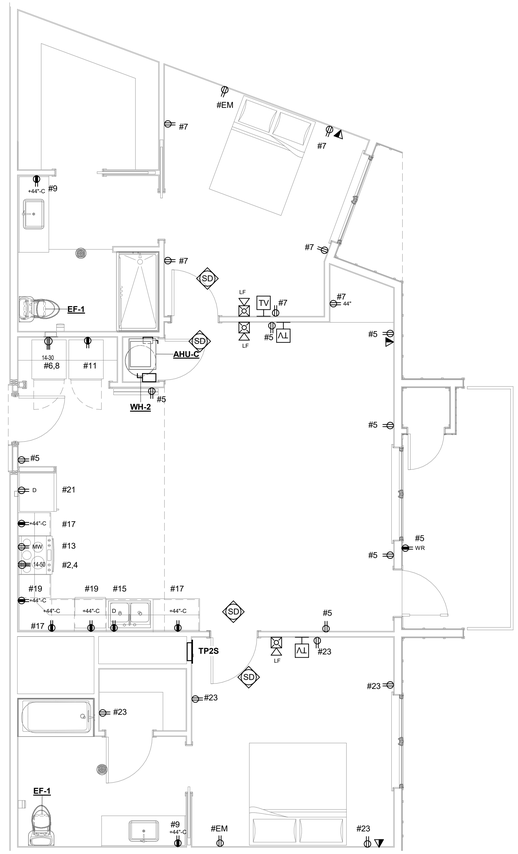
B1 Enlarged Plan - Studio Unit
SCALE: 1/4" = 1'-0"



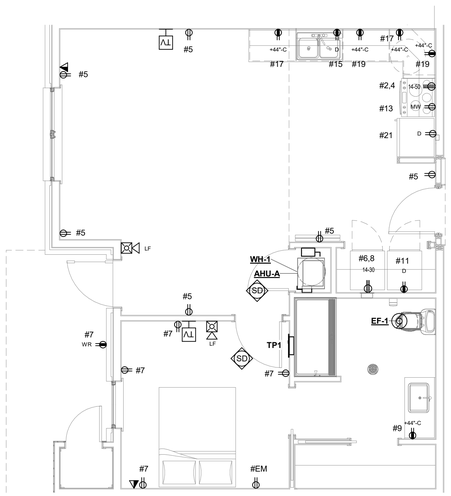
B2 Enlarged Plan - 1-Bd - Outer Balcony
SCALE: 1/4" = 1'-0"



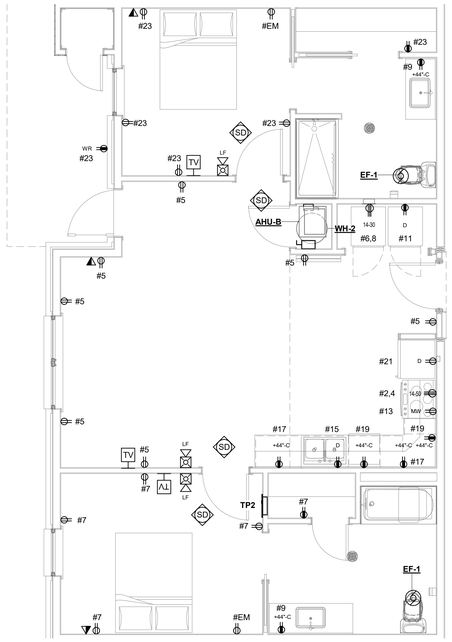
B3 Enlarged Plan - 1-Bd - Elevator
SCALE: 1/4" = 1'-0"



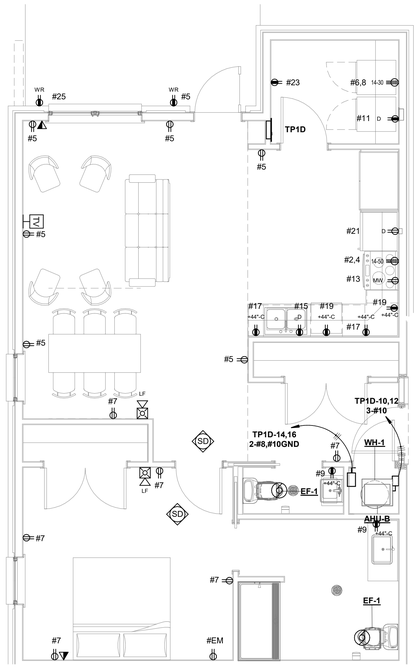
A4 Enlarged Plan - 2-Bd Suite
SCALE: 1/4" = 1'-0"



A1 Enlarged Plan - 1-Bd Unit
SCALE: 1/4" = 1'-0"



A2 Enlarged Plan - 2-Bd Unit
SCALE: 1/4" = 1'-0"



A3 Enlarged Plan - 1-Bd Suite
SCALE: 1/4" = 1'-0"

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

APARTMENT CONSTRUCTION NOTES:

1. ALL WIRING DEVICES IN APARTMENT UNITS SHALL BE DECORA STYLE, ALL OUTLETS SHALL BE TAMPER RESISTANT. FINISH FOR WIRING DEVICES AND COVER PLATES SHALL BE SELECTED BY ARCHITECT.
2. CONVENIENCE OUTLETS SHALL BE INSTALLED ON WALLS 24" OR MORE IN LENGTH. OUTLETS SHALL BE INSTALLED NO MORE THAN 6 FT FROM END OF ANY WALL AND NO MORE THAN 12 FT ON CENTER. INSTALL OUTLETS AS CLOSE AS POSSIBLE TO LOCATIONS SHOWN. MODIFY LOCATIONS AS REQUIRED TO COORDINATE WITH WALL STUDS.
3. KITCHEN OUTLETS SHALL BE INSTALLED AT EACH WALL COUNTERTOP SPACE THAT IS 12" OR WIDER. OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24" FROM AN OUTLET AT THE COUNTERTOP SPACE.
4. COORDINATE MOUNTING HEIGHT AND LOCATION OF ALL OUTLETS AT KITCHEN COUNTER/MILLWORK WITH ARCHITECTURAL ELEVATIONS AND MILLWORK SUPPLIER.
5. PROVIDE SPST FOR TOP HALF OF DISPOSAL/DW OUTLET TO CONTROL DISPOSAL. COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT.
6. OUTLETS LOCATED ON WALLS SEPARATING APARTMENT UNITS SHALL BE OFFSET BY ONE STUD SPACE TO MINIMIZE NOISE TRANSMISSION BETWEEN AND FOR FIRE RATING UNITS.
7. PP INDICATES A PATCH PANEL/MEDIA DISTRIBUTION ENCLOSURE FOR VOICE, DATA AND CABLE TV WITHIN EACH APARTMENT UNIT. PROVIDE 1 1/4" OPEN CONDUIT FROM EACH PANEL TO IDF ROOM EQUIPMENT BACKBOARD ON ASSOCIATED FLOOR OF APARTMENT BUILDING. THE PATCH PANEL SHALL BE EQUAL TO PRIMEX P3000ND. CONTRACTOR TO PROVIDE A DUPLEX OUTLET AT THE PANEL FOR EQUIPMENT CONNECTIONS. SPECIFICS OF THE WIRING WITHIN THE APARTMENT, AND WIRING FROM APARTMENT TO IDF ROOM SHALL BE DESIGNED AND SPECIFIED BY OTHERS.
8. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
9. ALL LIGHTING CONTROLS AND OUTLETS IN APARTMENT UNITS SHALL BE NO HIGHER THAN 46" AFF TO TOP OF BOX AND NO LOWER THAN 16" AFF TO BOTTOM OF BOX.
10. RESIDENTIAL SMOKE DETECTORS SHALL BE LOCATED IN EVERY SLEEPING AREA AND OUTSIDE EACH SLEEPING AREA. DETECTORS SHALL BE LOCALLY ALARMING, INTERCONNECT SO THAT WHEN ANY SINGLE DEVICE IS IN ALARM, ALL DEVICES IN THAT APARTMENT SHALL ALARM. DETECTORS MUST BE INSTALLED A MINIMUM OF 3 FT AWAY FROM ANY SUPPLY OR RETURN AIR GRILL AND 3FT FROM THE TIP OF ANY CEILING FAN. DEVICES SHALL BE SYSTEM CONNECTED WITH 520HZ SOUNDER BASE AND SHALL SOUND LOCAL ALARM ONLY. DEVICES SHALL SEND TROUBLE SIGNAL TO FACP.
11. FIRE ALARM SYSTEM NOTIFICATION DEVICES LOCATED IN APARTMENTS SHALL PROVIDE 520HZ TONE COMPLIANT WITH NFPA 72, 18.4.6.3, LOW FREQUENCY SIGNAL REQUIREMENTS FOR SLEEPING AREAS.
12. COORDINATE LOCATION OF APARTMENT WATER HEATERS WITH PLUMBING CONTRACTOR.
13. CEILING SYSTEMS AND WALLS IN UNITS TO BE RATED ASSEMBLIES. PROVIDE FIRE RATED PUTTY PADS BEHIND ALL BOXES INSTALLED IN RATED WALLS AND CEILINGS. FILL PENETRATIONS WITH FIRE CAULK TO MAINTAIN FIRE RATINGS.
14. FANS EF-1 TO BE CONNECTED TO BATHROOM LIGHTING CIRCUIT AND INTERLOCKED WITH TUB/SHOWER SWITCH.
15. HIGH/LOW TV OUTLET EXACT LOCATIONS TO BE COORDINATED WITH THE ARCHITECT/ OWNER. HIGH DUPLEX AND CABLE/COAX OUTLET TO BE MOUNTED AT 54" AFF. LOW OUTLETS TO BE INSTALLED DIRECTLY BELOW.
16. FOR COMMUNICATION CABLING, PROVIDE (1) CAT6 RUN AND (1) COAX CABLE RUN FROM THE DEMARC PANEL TO EACH OF THE UNIT TV LOCATIONS. PROVIDE (2) RUNS OF CAT6 CABLE FROM THE UNIT DEMARC PANEL TO EACH DATA DROP SHOWN.
17. ALL PERMANENTLY INSTALLED LIGHTS IN DWELLING UNITS SHALL BE PROVIDED WITH DIMMERS (OR OCCUPANCY SENSORS) TO COMPLY WITH IECC. DIMMER TYPE TO MATCH LIGHTING DRIVER.
18. CEILING FAN CONTROLLERS SHALL BE COORDINATED WITH FAN REQUIREMENTS.

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

ENLARGED UNIT PLANS - POWER

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DATE

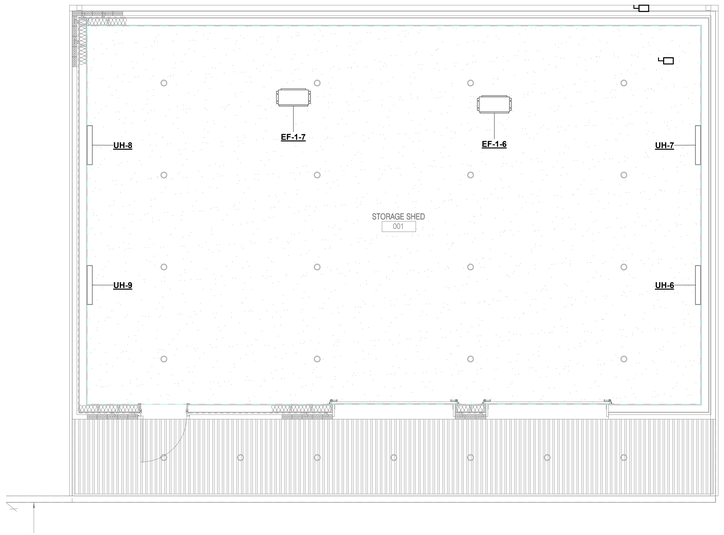
13 FEB. 2026

PHASE

Design Development

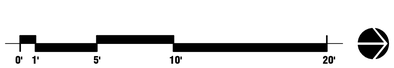
DRAWING NUMBER

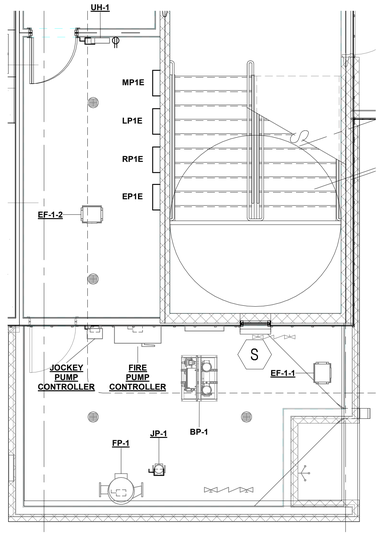
E3.02



B1 Enlarged Plan - Electrical - Maintenance Building

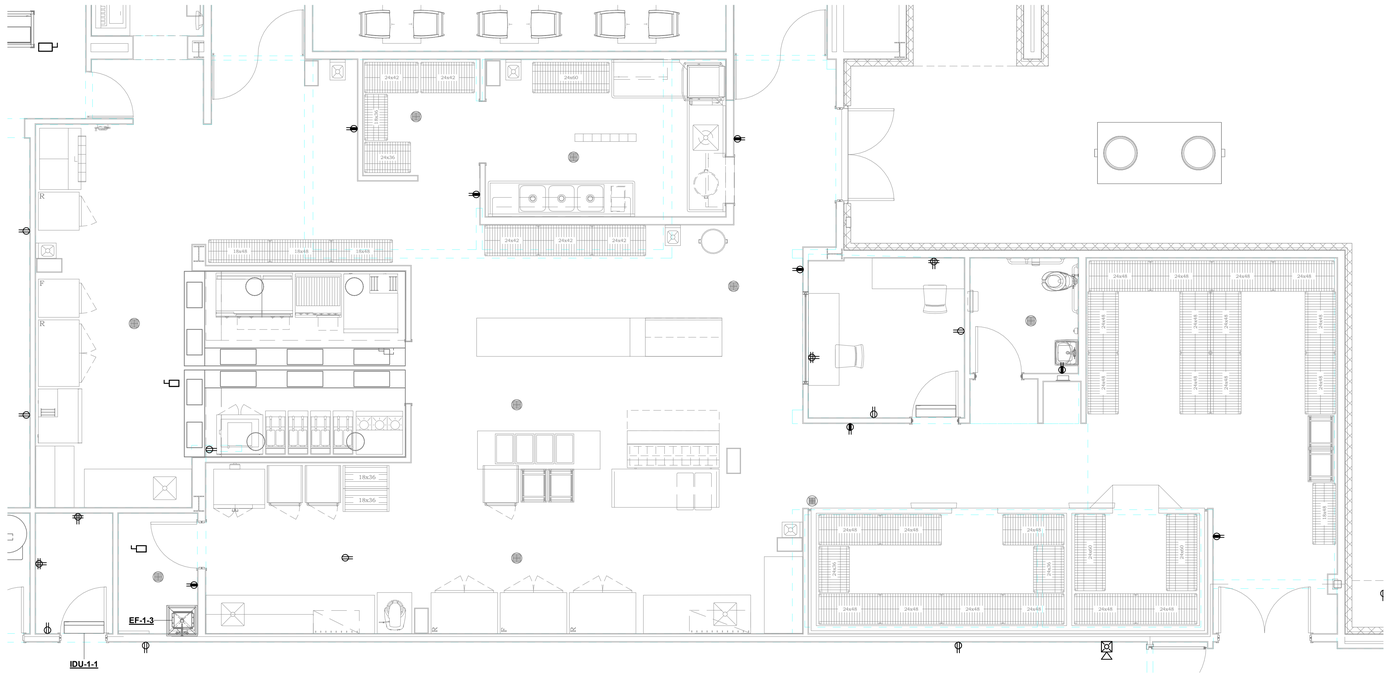
SCALE: 1/4" = 1'-0"





B2 Partial First Floor Plan - Electrical - Fire Pump Rm

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



A1 Enlarged Plan - Electrical - Kitchen

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



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25015

REVISIONS

DATE	DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

ENLARGED PLANS - POWER

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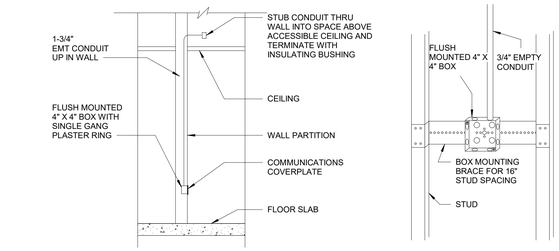
13 FEB. 2026

PHASE

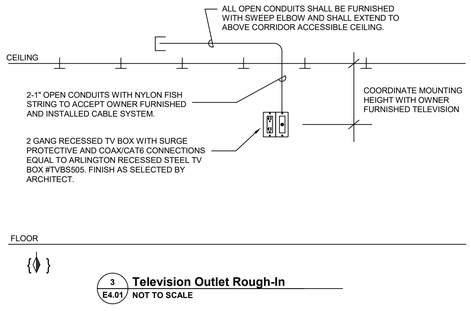
Design Development

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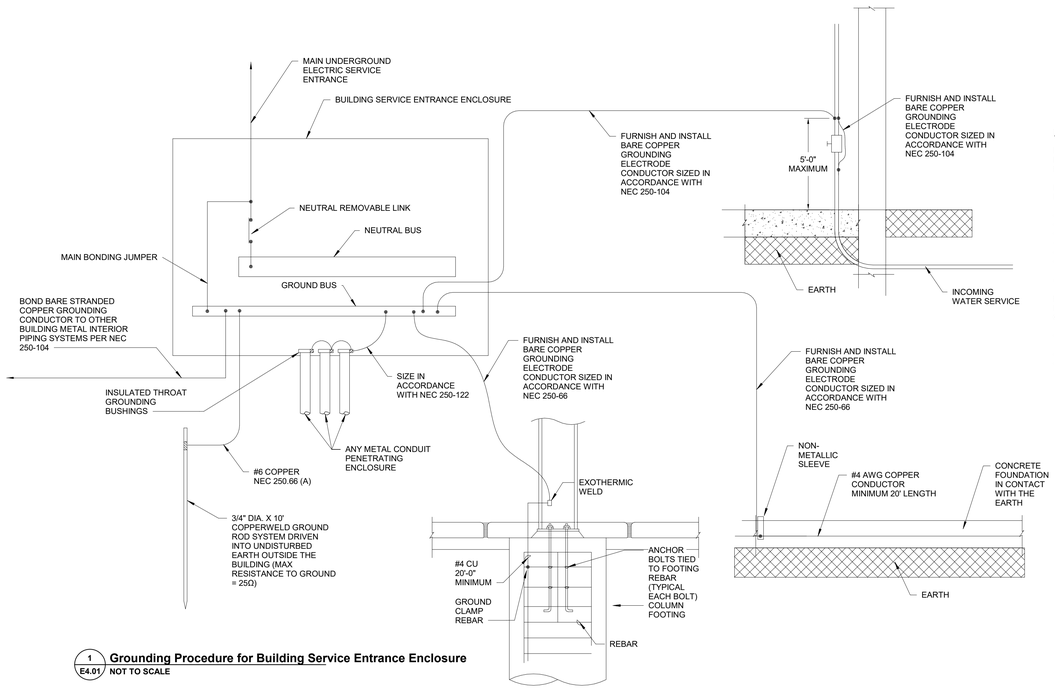
E3.03



2 / E4.01 Communications Outlet Wall Installation
NOT TO SCALE



3 / E4.01 Television Outlet Rough-In
NOT TO SCALE



1 / E4.01 Grounding Procedure for Building Service Entrance Enclosure
NOT TO SCALE

NATIONAL ELECTRICAL CODE

PROVIDE A GROUNDING ELECTRODE SYSTEM AS INDICATED IN 250.50 OF THE 2020 NATIONAL ELECTRICAL CODE.

BOND TOGETHER ALL AVAILABLE ELECTRODES AS LISTED IN 250.52, TO INCLUDE THE FOLLOWING:

- METAL UNDERGROUND WATER PIPE
- METAL IN-GROUND SUPPORT STRUCTURE(S)
- CONCRETE ENCASED ELECTRODE
- GROUND RING
- ROD AND PIPE ELECTRODES
- OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES
- PLATE ELECTRODES

EXCLUDE THE FOLLOWING SYSTEMS AND MATERIALS NOT PERMITTED FOR USE AS GROUNDING ELECTRODES:

- METAL UNDERGROUND GAS PIPING SYSTEMS
- ALUMINUM
- STRUCTURES AND STRUCTURAL REINFORCING STEEL AS LISTED IN 680.26(B) (1) AND (B) (2)

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
ELECTRICAL DETAILS

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DATE
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PHASE
Design Development
DRAWING NUMBER
E4.01

Branch Panel: MDP1W

Location: Space 70
Supply From: MAIN-M1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: None
Phases: Not Computed
Wires: Not Computed

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 1200 A
MCB Rating: N/A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	UNIT PANEL	125 A	2	6000 VA	6000 VA					2	125 A	UNIT PANEL	2
3						6000 VA	6000 VA						4
5	UNIT PANEL	125 A	2					6000 VA	6000 VA	2	125 A	UNIT PANEL	6
7				6000 VA	6000 VA								8
9	UNIT PANEL	125 A	2			6000 VA	6000 VA			2	125 A	UNIT PANEL	10
11								6000 VA	6000 VA				12
13	UNIT PANEL	125 A	2	6000 VA	6000 VA					2	125 A	UNIT PANEL	14
15						6000 VA	6000 VA						16
17	UNIT PANEL	125 A	2					6000 VA	6000 VA	2	125 A	UNIT PANEL	18
19				6000 VA	6000 VA								20
21	UNIT PANEL	125 A	2			6000 VA	6000 VA			2	125 A	UNIT PANEL	22
23								6000 VA	6000 VA				24
25	UNIT PANEL	125 A	2	6000 VA	6000 VA					2	125 A	UNIT PANEL	26
27						6000 VA	6000 VA						28
29	UNIT PANEL	125 A	2					6000 VA	6000 VA	2	125 A	UNIT PANEL	30
31				6000 VA	6000 VA								32
33	UNIT PANEL	125 A	2			6000 VA	6000 VA			2	125 A	UNIT PANEL	34
35								6000 VA	6000 VA				36
37	UNIT PANEL	125 A	2	6000 VA	6000 VA					2	125 A	UNIT PANEL	38
39						6000 VA	6000 VA						40
41	UNIT PANEL	125 A	2					6000 VA	6000 VA	2	125 A	UNIT PANEL	42
43				6000 VA	6000 VA								44
45	UNIT PANEL	125 A	2			6000 VA	0 VA			2	125 A	SPARE CB	46
47								6000 VA	0 VA				48
49	SPARE CB	125 A	2	0 VA	0 VA					2	125 A	SPARE CB	50
51						0 VA	0 VA						52
53	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	54
55	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	56
57	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	58
59	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	60
			Total Load:	96000 VA		90000 VA		90000 VA					
			Total Amps:										

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Spare	276000 VA	100.00%	276000 VA	
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: Not Computed
				Total Est. Demand: Not Computed
				Total Adjusted Est. Load: 276000 VA
				Total Adjusted Demand: 0 A

Notes:
FURNISH WITH INTEGRAL SPD

Branch Panel: MDP2E

Location: Space 96
Supply From: MAIN-M2
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 1200 A
MCB Rating: N/A

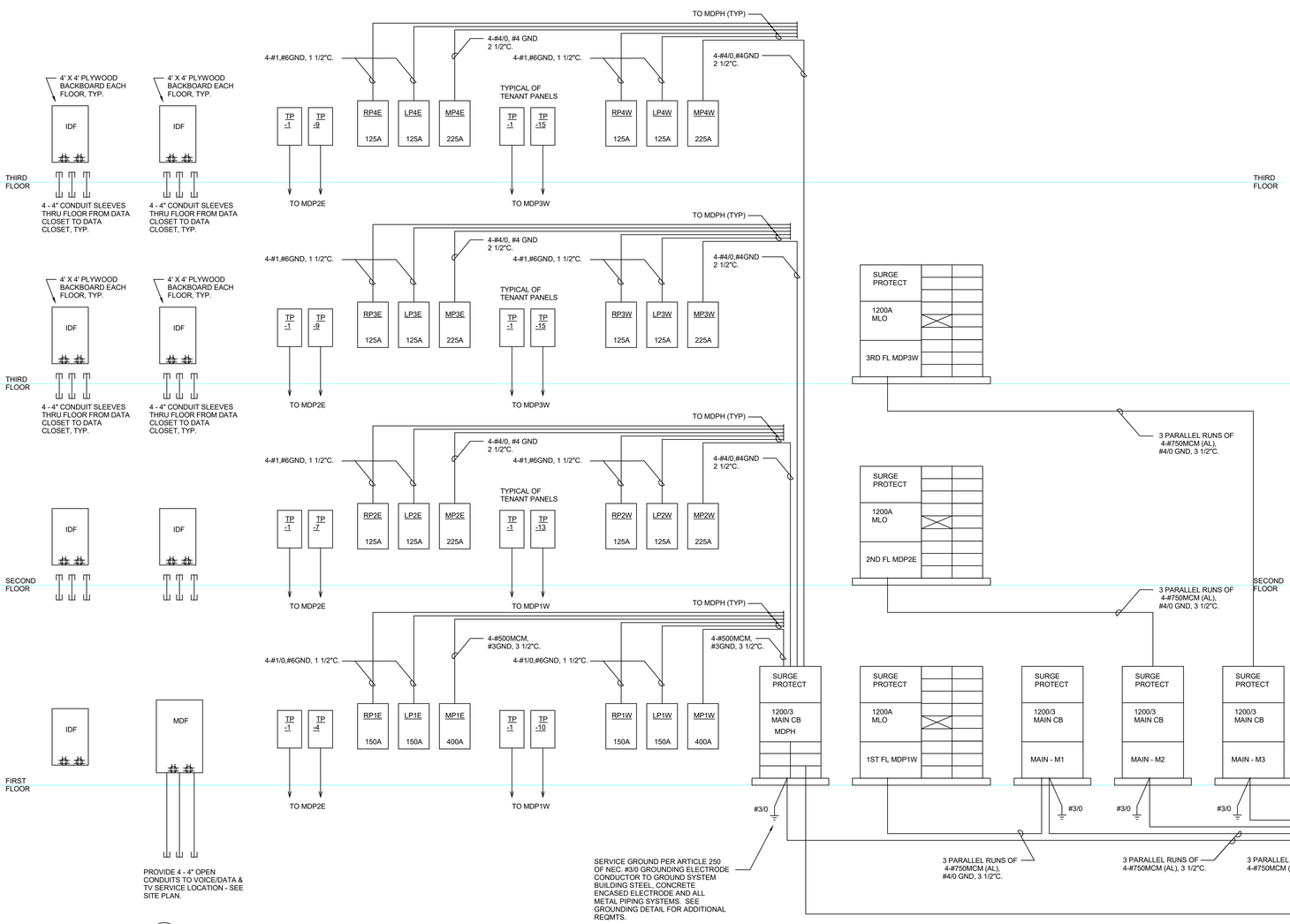
Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	UNIT PANEL	125 A	2	5500 VA	5500 VA					2	235 A	UNIT PANEL	2
3						5500 VA	5500 VA						4
5	UNIT PANEL	125 A	2					5500 VA	5500 VA	2	125 A	UNIT PANEL	6
7				5500 VA	5500 VA								8
9	UNIT PANEL	125 A	2			5500 VA	5500 VA			2	125 A	UNIT PANEL	10
11								5500 VA	5500 VA				12
13	UNIT PANEL	125 A	2	5500 VA	5500 VA					2	125 A	UNIT PANEL	14
15						5500 VA	5500 VA						16
17	UNIT PANEL	125 A	2					5500 VA	5500 VA	2	125 A	UNIT PANEL	18
19				5500 VA	5500 VA								20
21	UNIT PANEL	125 A	2			5500 VA	5500 VA			2	125 A	UNIT PANEL	22
23								5500 VA	5500 VA				24
25	UNIT PANEL	125 A	2	5500 VA	5500 VA					2	125 A	UNIT PANEL	26
27						5500 VA	5500 VA						28
29	UNIT PANEL	125 A	2					5500 VA	5500 VA	2	125 A	UNIT PANEL	30
31				5500 VA	5500 VA								32
33	UNIT PANEL	125 A	2			5500 VA	5500 VA			2	125 A	UNIT PANEL	34
35								5500 VA	5500 VA				36
37	UNIT PANEL	125 A	2	5500 VA	5500 VA					2	125 A	UNIT PANEL	38
39						5500 VA	5500 VA						40
41	UNIT PANEL	125 A	2					5500 VA	5500 VA	2	125 A	UNIT PANEL	42
43				5500 VA	5500 VA								44
45	UNIT PANEL	125 A	2			5500 VA	5500 VA			2	125 A	UNIT PANEL	46
47								5500 VA	5500 VA				48
49	UNIT PANEL	125 A	2	5500 VA	5500 VA					2	125 A	UNIT PANEL	50
51						5500 VA	5500 VA						52
53	UNIT PANEL	125 A	2					5500 VA	5500 VA	2	125 A	UNIT PANEL	54
55				5500 VA	5500 VA								56
57	UNIT PANEL	125 A	2			5500 VA	0 VA			2	125 A	SPARE CB	58
59								5500 VA	0 VA				60
61	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	62
63	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	64
65	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	66
67	SPACE ONLY	--	1	--	--					1	--	SPACE ONLY	68
69	SPACE ONLY	--	1			--	--			1	--	SPACE ONLY	70
71	SPACE ONLY	--	1					--	--	1	--	SPACE ONLY	72
			Total Load:	110000 VA		104500 VA		104500 VA					
			Total Amps:	917 A		871 A		871 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Spare	319000 VA	100.00%	319000 VA	
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn.: 0 A
				Total Est. Demand: 0 A
				Total Adjusted Est. Load: 319000 VA
				Total Adjusted Demand: 885 A

Notes:



1 **RISER DIAGRAM**
E5.01 **NOT TO SCALE**

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JOB NUMBER
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REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

RISER DIAGRAM & SCHEDULES

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DATE
13 FEB. 2026
PHASE
Design Development
DRAWING NUMBER
E5.01

Branch Panel: TP1

Location:
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

Volts: 120/208 Single
Phases: 1
Wires: 3

A.I.C. Rating: 10,000
Mains Type:
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	LIGHTING (AFCI CB)	20 A	1	0 VA	4000 VA			2	50 A	RANGE	2
3	SPARE CB (AFCI CB)	20 A	1			0 VA	4000 VA				4
5	OUTLETS - LIVING AREA (AFCI CB)	20 A	1	1080 VA	2250 VA			2	30 A	DRYER	6
7	OUTLETS - BEDROOM (AFCI CB)	20 A	1			1080 VA	2250 VA				8
9	OUTLETS - BATHROOM (AFCI CB)	20 A	1	600 VA	2250 VA			2	30 A	WATER HEATER	10
11	OUTLET - WASHER (AFCI/GFCI CB)	20 A	1			1000 VA	2250 VA				12
13	OUTLET - MICROWAVE (AFCI CB)	20 A	1	1000 VA	2500 VA			2	25 A	FURNACE - AHU	14
15	OUTLET - DISPOSAL/DW (AFCI CB)	20 A	1			1000 VA	2500 VA				16
17	OUTLETS - KIT SM APPL. (AFCI CB)	20 A	1	1200 VA							18
19	OUTLETS - KIT SM APPL. (AFCI CB)	20 A	1			1200 VA					20
21	OUTLET - REFFRIGERATOR (AFCI...	20 A	1	800 VA	--			1	--	SPACE ONLY	22
23	SPARE CB (AFCI CB)	20 A	1			0 VA	--	1	--	SPACE ONLY	24
25	SPARE CB (AFCI CB)	20 A	1	0 VA	--			1	--	SPACE ONLY	26
27	SPARE CB (AFCI CB)	20 A	1			0 VA	--	1	--	SPACE ONLY	28
29	SPARE CB (AFCI CB)	20 A	1	0 VA	--			1	--	SPACE ONLY	30
			Total Load:	15680 VA		15280 VA					
			Total Amps:	150 A		147 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5000 VA	100.00%	5000 VA		
Heating	4500 VA	100.00%	4500 VA	**Total Conn. Load:**	30960 VA
Receptacle	21460 VA	73.30%	15730 VA	**Total Est. Demand:**	25230 VA
				Total Conn.:	149 A
				Total Est. Demand:	121 A
				Total Adjusted Est. Load:	25230 VA
				Total Adjusted Demand:	121 A

Notes:

Branch Panel: MDPH

Location: Space 70
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type:
Mains Rating: 1200 A
MCB Rating: 1200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				0 VA	0 VA								2
3	MP1W	400 A	3			0 VA	0 VA			3	400 A	MP1E	4
5								0 VA	0 VA				6
7				0 VA	0 VA								8
9	MP2W	225 A	3			0 VA	0 VA			3	225 A	MP2E	10
11								0 VA	0 VA				12
13				0 VA	0 VA								14
15	MP3W	225 A	3			0 VA	0 VA			3	225 A	MP3E	16
17								0 VA	0 VA				18
19				0 VA	0 VA								20
21	MP4W	225 A	3			0 VA	0 VA			3	225 A	MP4E	22
23								0 VA	0 VA				24
25				0 VA	0 VA								26
27	LP1W	150 A	3			0 VA	0 VA			3	150 A	LP1E	28
29								0 VA	0 VA				30
31				0 VA	0 VA								32
33	LP2W	150 A	3			0 VA	0 VA			3	150 A	LP2E	34
35								0 VA	0 VA				36
37				0 VA	0 VA								38
39	LP3W	150 A	3			0 VA	0 VA			3	150 A	LP3E	40
41								0 VA	0 VA				42
43				0 VA	0 VA								44
45	LP4W	150 A	3			0 VA	0 VA			3	150 A	LP4E	46
47								0 VA	0 VA				48
49				0 VA	0 VA								50
51	RP1W	150 A	3			0 VA	0 VA			3	150 A	RP1E	52
53								0 VA	0 VA				54
55				0 VA	0 VA								56
57	RP2W	150 A	3			0 VA	0 VA			3	150 A	RP2E	58
59								0 VA	0 VA				60
61				0 VA	0 VA								62
63	RP3W	150 A	3			0 VA	0 VA			3	150 A	RP3E	64
65								0 VA	0 VA				66
67				0 VA	0 VA								68
69	RP4W	150 A	3			0 VA	0 VA			3	150 A	RP4E	70
71								0 VA	0 VA				72
73				0 VA	0 VA								74
75	SPARE CB	150 A	3			0 VA	0 VA			3	20 A	SPACE ONLY	76
77								0 VA	0 VA				78
79				0 VA	0 VA								80
81	SPACE ONLY	20 A	3			0 VA	0 VA			3	20 A	SPACE ONLY	82
83								0 VA	0 VA				84
			Total Load:	0 VA		0 VA		0 VA					
			Total Amps:	0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A
				Total Adjusted Est. Load:	0 VA
				Total Adjusted Demand:	0 A

Notes:
FURNISH WITH INTEGRAL SPD

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memphis, tn 38111
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SEAL:
NOT FOR CONSTRUCTION FOR REVIEW ONLY

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

PANEL SCHEDULES

This drawing has been prepared under the architect's supervision. The architect disclaims any responsibility for the existing building structure, existing site conditions, existing construction elements, and any drawings or documents used for this project that are not signed and sealed by the architect.

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DATE

13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

E5.02

ELECTRICAL SPECIFICATIONS

SCOPE

INCLUDES THE FURNISHING OF ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, ETC., REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS AS OUTLINED IN THESE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. THE WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, LABOR AND MATERIAL FOR THE FOLLOWING:

1. NEW UNDERGROUND SECONDARY SERVICE ENTRANCE FROM UTILITY COMPANY PAD MOUNTED TRANSFORMER TO BUILDING SERVICE ENTRANCE PANEL LOCATED INSIDE THE FACILITY.
2. CONDUIT RACEWAY FOR POWER FEEDERS.
3. SECONDARY DISTRIBUTION FEEDERS.
4. BRANCH CIRCUITS IN CONDUIT RACEWAY.
5. ELECTRICAL BOXES AND FITTINGS.
6. WIRING DEVICES, INCLUDING CONVENIENCE AND SPECIAL OUTLETS.
7. CIRCUIT AND MOTOR DISCONNECTS.
8. OVERCURRENT PROTECTIVE DEVICES.
9. SUPPORTING DEVICES.
10. PANELBOARDS.
11. GROUNDING.
12. LIGHTING FIXTURES AND LAMPS.
13. EXTERIOR BUILDING LIGHTING.
14. EXIT SIGNS AND EMERGENCY LIGHTING.
15. WIRING FOR HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT.
16. SPECIAL PURPOSE OUTLETS.
17. BUILDING FIRE ALARM SYSTEM.
18. IDENTIFICATION OF ELECTRICAL EQUIPMENT.

WORK BY OTHERS

THE FOLLOWING WORK RELATED TO WORK WILL BE PROVIDED BY OTHERS:

1. ALL HEATING, VENTILATING AND AIR CONDITIONING WORK FOR THE PROJECT WILL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
2. THE LOCAL UTILITY WILL FURNISH AND INSTALL 3-PHASE SERVICE TRANSFORMERS TO SERVE THE FACILITY.

CODES AND PERMITS

ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, AND THE LATEST EDITION OF ALL LOCAL OR STATE CODES, LAWS, AND ORDINANCES, AND THE REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY, AS WELL AS NFPA 72 FOR THE FIRE ALARM SYSTEM AND THE ADOPTED IECC ENERGY CODE.

THIS CONTRACTOR SHALL APPLY FOR, OBTAIN, AND PAY FOR ALL PERMITS REQUIRED. AT THE CONCLUSION OF THE INSTALLATION, HE SHALL SECURE A CERTIFICATE OF INSPECTION, PROPERLY SIGNED BY THE CONTROLLING BUILDING DEPARTMENT, WHICH SHALL STATE THAT ALL RULES HAVE BEEN COMPLIED WITH AND THAT THE WORK IS SATISFACTORY.

MATERIAL AND EQUIPMENT

ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY SPECIFIED.

MATERIAL OR EQUIPMENT THAT HAS BEEN STORED OUTDOORS UNPROTECTED FOR LONG PERIODS OF TIME OR OTHERWISE DAMAGED IS NOT ACCEPTABLE AS NEW MATERIAL.

APPARATUS AND MATERIALS USED IN THIS WORK WHICH ARE SUBJECT TO APPROVAL OF UNDERWRITERS LABORATORIES (UL) SHALL BEAR THE UL LABEL, OR BE UNDERWRITERS LISTED.

SHOP DRAWINGS

SUBMIT DIGITAL SHOP DRAWINGS AND MANUFACTURER'S DATA SHEETS FOR ALL EQUIPMENT FOR REVIEW BY THE ENGINEER PRIOR TO CONSTRUCTION IN PDF FORMAT. SUBSTITUTES WILL BE RECEIVED, HOWEVER, THIS CONTRACTOR SHALL BE PREPARED TO FURNISH MATERIALS AS SPECIFIED IF REQUIRED BY SHOP DRAWING REVIEW.

EQUIPMENT COORDINATION

THIS CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF ALL HVAC, PLUMBING, AND FIRE PROTECTION EQUIPMENT. WHERE THE DESIGN INFORMATION SHOWN ON THE DRAWINGS IS DIFFERENT THAN THE ACTUAL INSTALLED EQUIPMENT, THIS CONTRACTOR SHALL MAKE CHANGES IN WIRE AND CIRCUIT BREAKER SIZES AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.

PRIOR APPROVAL OF EQUIPMENT

ELECTRICAL EQUIPMENT SHALL BE FURNISHED AS SPECIFIED; HOWEVER, ALTERNATES TO THE SPECIFIED EQUIPMENT WILL BE ACCEPTED. IF A PRODUCT IS TO BE CONSIDERED AS AN EQUAL TO THE PRODUCTS SPECIFIED HEREIN AND ON THE DRAWINGS, MANUFACTURERS PRODUCT INFORMATION SHALL BE SUBMITTED TO THE ENGINEER THRU THE ARCHITECT FOR REVIEW FIVE (5) WORKING DAYS PRIOR TO BIDDING. SUBSTITUTION PRODUCTS SUBMITTED AFTER THE FIVE (5) WORKING DAY DEADLINE OR AFTER THE BIDDING PROCESS WILL NOT BE CONSIDERED.

ACCURACY OF DATA

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF OUTLETS, CONDUITS, SWITCHES, FIXTURES, ETC. INSTALL ALL WORK AS NEARLY AS POSSIBLE IN THE LOCATIONS SHOWN WITH MINOR ADJUSTMENTS TO AVOID INTERFERENCES WITH STRUCTURE OR THE WORK OF OTHER TRADES. COORDINATE THE EXACT LOCATIONS WITH THE OWNER AND/OR ARCHITECT.

MODIFICATION TO EXISTING FACILITY

MAKE MODIFICATION AND ADDITIONS TO EXISTING FACILITY AS SHOWN ON THE DRAWINGS. VERIFY ALL EXISTING CONDITIONS BY SITE SURVEY.

COORDINATION

THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER SUBCONTRACTORS ON THE JOB AND ALSO WITH THAT OF THE OWNER IN ORDER THAT THERE BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF THE SEVERAL PARTS OF THE WORK.

THIS CONTRACTOR SHALL USE EVERY PRECAUTION TO PROTECT THE WORK OF OTHERS, AND HE WILL BE HELD RESPONSIBLE FOR ALL DAMAGE DONE BY HIS WORKERS TO THE WORK OF OTHER TRADES. HE SHALL ALSO PROTECT HIS WORK FROM DANGER OF BREAKAGE, DIRT, FOREIGN MATERIALS, ETC., AND SHALL REPLACE ALL WORK SO DAMAGED.

MANUFACTURER'S RECOMMENDATIONS

UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOMMENDATION OF THE MANUFACTURER.

CUTTING AND PATCHING

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR PLACEMENT OF HIS WORK AND SHALL EMPLOY WORKERS SKILLED IN THE TRADES REQUIRED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLEEVES AND FIRE CAULKING WHERE PENETRATIONS ARE MADE THROUGH RATED FLOORS OR WALLS.

ELECTRICAL SYSTEM CHARACTERISTICS

THE SECONDARY ELECTRICAL WIRING SYSTEM FOR THE BUILDING SHALL BE 480Y/277 VOLTS, 3-PHASE, 4-WIRE, SOLID NEUTRAL GROUNDED.

CONVENIENCE OUTLET CIRCUITS, ETC., SHALL BE SUPPLIED AT 208Y/120 VOLTS, 3-PHASE, 4-WIRE, SOLID NEUTRAL, GROUNDED, THROUGH STEP-DOWN, DRY TYPE TRANSFORMERS.

PROTECTION OF FLOORS

FLOORS SHALL BE PROTECTED WHERE CUTTING AND THREADING OPERATIONS TAKE PLACE. PROTECTION SHALL BE ACCEPTABLE TO THE GENERAL CONTRACTOR.

TEMPORARY CONSTRUCTION POWER AND LIGHTING

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING FOR CONSTRUCTION POWER AND LIGHTING FOR THE PROJECT.

TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND LIGHTING SHALL BE PROVIDED BY THIS CONTRACTOR.

ALL TEMPORARY WIRING FOR CONSTRUCTION SHALL CONFORM TO ARTICLE 305 OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE RULES AND REGULATIONS OF OSHA.

RECORD DRAWINGS AND MAINTENANCE MANUALS

THIS CONTRACTOR SHALL MAINTAIN A SET OF UP-TO-DATE RECORD DRAWINGS AT THE JOB SITE SHOWING WORK AS INSTALLED. UPON COMPLETION OF THE PROJECT, THIS CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS ON MYLAR SHOWING CONDITIONS AS INSTALLED. THREE (3) COPIES OF MAINTENANCE MANUALS CONTAINING MANUFACTURER'S INSTALLATION AND MAINTENANCE INFORMATION ON ALL EQUIPMENT INSTALLED SHALL BE PRESENTED TO THE OWNER. FINAL PAYMENT SHALL BE MADE AFTER AS-BUILT DRAWINGS AND MAINTENANCE MANUALS HAVE BEEN APPROVED.

TESTS

THE ENTIRE WIRING SYSTEM SHALL BE THOROUGHLY TESTED AND DEFECTS CORRECTED. ALL ELECTRICAL WIRING SHALL BE TESTED FOR CONTINUITY, SHORTS, IMPROPER GROUNDS AND INSULATION RESISTANCE. MOTORS SHALL BE CHECKED FOR PROPER ROTATION AND BRANCH CIRCUIT AND OVERLOAD PROTECTION. PANELBOARDS SHALL BE CHECKED FOR BALANCED LOADING. PANELBOARDS SHALL BE CHECKED FOR CORRECT PHASE ROTATION. DISCREPANCIES SHALL BE CORRECTED. THIS CONTRACTOR SHALL FURNISH TEST EQUIPMENT AND MATERIAL, AND SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF DAMAGE DUE TO TEST FAILURES.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE TO THE OWNER ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTS ARISING DURING THIS PERIOD WILL BE PROMPTLY REMEDIED BY THE CONTRACTOR AT HIS OWN EXPENSE UPON NOTICE BY THE OWNER. ALL LAMPS FOR LIGHTING FIXTURES SHALL BE EXCLUDED FROM THIS GUARANTEE, BUT ONE (1) COMPLETE AND OPERATIVE SET OF LAMPS FOR LIGHTING FIXTURES SHALL BE IN PLACE AT THE TIME OF FINAL ACCEPTANCE.

ELECTRICAL RACEWAYS

ALL WIRING SHALL BE INSTALLED IN A CONTINUOUS CONDUIT SYSTEM.

ALL CONDUIT SUBJECT TO WEATHER AND/OR MECHANICAL DAMAGE SHALL BE GALVANIZED RIGID STEEL OR IMC.

ELECTRIC METALLIC TUBING (EMT) MAY BE USED FOR ALL OTHER CONDUIT APPLICATIONS UNLESS MODIFIED BY THIS SPECIFICATION OR BY THE DRAWINGS. MINIMUM CONDUIT SIZE SHALL BE 1/2" OR 3/4".

SHORT LENGTHS OF FLEXIBLE STEEL CONDUIT, "GREENFIELD", SHALL BE USED ONLY ABOVE FURRED CEILINGS BETWEEN OUTLET BOXES AND LAY-IN TYPE LIGHTING FIXTURES.

SEALTITE FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND EQUIPMENT SUBJECT TO VIBRATION.

SEALTITE CONDUIT SHALL NOT BE USED FOR OTHER APPLICATIONS.

PVC SCHEDULE 40 CONDUIT SHALL BE USED FOR OUTDOOR UNDERGROUND CONDUIT RUNS.

EXPOSED CONDUIT SHALL BE RUN IN PARALLEL ROWS NEATLY RACKED PARALLEL OR INTERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS.

WHEREVER POSSIBLE, LOCATE CONDUIT HIGH AS POSSIBLE OVER PIPING OF OTHER TRADES. ALL HORIZONTAL CONDUIT RUNS ABOVE FURRED CEILINGS SHALL BE RUN AS HIGH AS POSSIBLE IN ORDER TO PROVIDE FREE SPACE ABOVE CEILING FOR INSTALLATION OF AIR DISTRIBUTION DUCT AND PIPING.

PLUG THE ENDS OF EACH RACEWAY WITH AN APPROVED CAP OR CAPPED BUSHING TO PREVENT THE ENTRANCE OF FOREIGN MATERIAL DURING THE CONSTRUCTION PERIOD. CONDUIT LEFT EMPTY FOR FUTURE WIRING SHALL BE CAPPED.

CONDUITS PROJECTING THROUGH ROOFING SHALL BE MADE WATERTIGHT BY PROPER FLASHING AND PITCH POCKETS WITH STORM COLLAR SECURELY FASTENED TO CONDUIT ABOVE THE FLASHING.

PROVIDE BONDING TYPE CONDUIT EXPANSION JOINTS OR FITTINGS WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS. ALL EXPANSION JOINT FITTINGS TO BE PROVIDED WITH EXTERNAL BONDING JUMPER ARE TO BE OF TYPE APPROVED FOR USE WITH A BONDING JUMPER.

ALL RIGID STEEL AND IMC CONDUIT COUPLINGS, FITTINGS, AND CONNECTORS SHALL BE THREADED TYPE.

WHERE PVC CONDUIT IS USED, ALL JOINTS SHALL BE SOLVENT WELDED WITH CEMENT FURNISHED BY THE CONDUIT MANUFACTURER. PROVIDE SUITABLE ADAPTERS WHERE PVC CONDUITS ARE COUPLED TO METALLIC CONDUITS.

PROVIDE A RIGID ELBOW AT BASE OF EACH EXPOSED RISER FROM BELOW GRADE, AS INDICATED ON THE DRAWINGS OR AS REQUIRED.

PROVIDE FIRE BARRIER PENETRATION SEALS WHERE CONDUIT PENETRATES FIRE RATED WALLS OR FLOORS.

WHERE RUN CONCEALED AND ALLOWED BY CODE, IT IS ACCEPTABLE TO USE TYPE "MC" CABLE INLIEU OF EMT CONDUIT AND BUILDING WIRE.

FROM EACH FLUSH MOUNTED PANELBOARD, EXTEND INTO AN ACCESSIBLE LOCATION A 3/4" EMPTY CONDUIT FOR EVERY THREE SPARE BRANCH BREAKERS OR BREAKER SPACES.

CONDUCTORS

ALL CONDUCTORS SHALL BE STRANDED COPPER WITH THHN-TYPE 2 INSULATION. ALL CONDUCTORS SHALL BEAR THE UL LABEL. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG. WIRE SIZES SHOWN ON THIS DRAWING ARE CALCULATED USING THE 75 DEGREE CELSIUS COLUMN OF TABLE 310.15(B)(16). FOR EQUIPMENT THAT IS RATED SOLELY FOR 60 DEGREE CELSIUS, PROVIDE WIRE SIZED USING THE 60 DEGREE COLUMN.

SWITCH REQUIREMENTS

PROVIDE A SWITCH AT EACH LOCATION AS SHOWN ON THE DRAWINGS:

RECEPTACLE REQUIREMENTS

PROVIDE A DUPLEX CONVENIENCE OUTLET AT EACH LOCATION AS SHOWN ON THE DRAWINGS:

NOT MORE THAN SIX (6) DUPLEX CONVENIENCE OUTLETS SHALL BE WIRED TO A SEPARATE 120 VOLT CIRCUIT.

ALL WIRING DEVICES SHALL BE RATED 20 AMP SPECIFICATION GRADE, AS MANUFACTURED BY HUBBELL OR AN APPROVED EQUAL.

TAMPER RESISTANT RECEPTACLES SHALL BE 20 AMP SPECIFICATION GRADE, HUBBELL 5352*TR OR APPROVED EQUAL.

PROVIDE SPECIAL OUTLETS AS PER THE SPECIAL OUTLET SCHEDULE SHOWN ON THE DRAWINGS.

RECEPTACLES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE SEPARATED BY NO LESS THAN 24".

TELEPHONE OUTLET REQUIREMENTS

PROVIDE FLUSH WALL TYPE TELEPHONE OUTLETS, AS SHOWN ON THE DRAWINGS.

EXTEND A 3/4" EMPTY CONDUIT STUB-UP FROM EACH OUTLET INTO THE SPACE ABOVE THE CEILING AT EACH OUTLET LOCATION.

PROVIDE TERMINATION FACILITIES, SERVICE ENTRANCE CONDUIT, AND ELECTRICAL RECEPTACLE, AS REQUIRED BY THE LOCAL TELEPHONE COMPANY.

MOUNTING HEIGHTS

INSTALL RECEPTACLES AT THE FOLLOWING HEIGHTS:

4'-6" ABOVE FLOOR IN MANUFACTURING AND WAREHOUSE AREAS
1'-8" ABOVE FINISHED FLOOR IN FINISHED AREAS
8" ABOVE COUNTER TOPS EXCEPT WHERE SPECIFICALLY INDICATED

INSTALL WALL SWITCHES AND FIRE ALARM MANUAL STATIONS: 4'-0" ABOVE FINISHED FLOOR OR AS SPECIFICALLY INDICATED ON THE PLANS.

INSTALL THERMOSTATS:
4'-0" ABOVE FINISHED FLOOR OR AS SPECIFICALLY INDICATED ON THE PLANS.

INSTALL OUTLETS FOR OTHER DEVICES:
AS INDICATED ON THE PLANS

ELECTRICAL IDENTIFICATION

ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED USING ENGRAVED PLASTIC LAMINATED LABELS, WHITE WITH BLACK CORE. NAME PLATES SHALL INCLUDE PANEL DESIGNATION VOLTAGE AND PHASE. NAMEPLATES TO BE SECURED TO PANEL COVER WITH SCREWS.

DRY TYPE TRANSFORMERS

THE INSULATION SHALL BE CLASS 220 WITH AN AVERAGE CONDUCTOR TEMPERATURE RISE OF 150 DEGREES C AT 40 DEGREES C AMBIENT. TRANSFORMER UNITS SHALL BE WOUND WITH COPPER OR ALUMINUM AND IMPREGNATED WITH NONHYGROSCOPIC, THERMOSETTING VARNISH. SOUND LEVELS SHALL NOT EXCEED RECOMMENDATIONS OF NEMA FOR A SPECIFIC TRANSFORMER SIZE.

TRANSFORMERS SHALL BE MOUNTED IN HEAVY STEEL VENTILATED ENCLOSURES WITH MANUFACTURER'S STANDARD ENAMEL OVER CLEANED AND PHOSPHATIZED STEEL AND SHALL BE SUITABLE FOR WALL OR FLOOR MOUNTING.

LIMIT TERMINAL COMPARTMENT TEMPERATURE TO 75 DEGREES C WHEN TRANSFORMER IS OPERATING CONTINUOUSLY AT RATED LOAD WITH AMBIENT TEMPERATURE OF 40 DEGREES C.

PROVIDE WIRING CONNECTORS SUITABLE FOR 75 DEGREES C INSULATED COPPER WIRING.

ALL 3-PHASE BUILDING SERVICE DRY TYPE TRANSFORMERS 15 KVA AND SMALLER SHALL HAVE RATINGS AS FOLLOWS:

480 VOLTS, "T" CONNECTED PRIMARY, WITH 4-TAPS, 2x% (2 FCBN - 2 FCAN). 208Y/120 VOLT WYE CONNECTED SECONDARY, WITH NEUTRAL BROUGHT OUT (4-WIRE).

ALL 3-PHASE BUILDING SERVICE DRY TYPE TRANSFORMERS 30 KVA AND LARGER SHALL HAVE RATINGS AS FOLLOWS:

480 VOLTS DELTACONNECTED PRIMARY WITH 6-TAPS, 2x% (2 FCAN - 4 FCBN). 208Y/120 WYE CONNECTED SECONDARY, WITH NEUTRAL BROUGHT OUT (4-WIRE).

PANELBOARDS - GENERAL REQUIREMENTS

BUSING FOR PANELBOARDS SHALL BE COPPER. ALL GROUND BARS SHALL BE COPPER.

PANELBOARDS SHALL BE SERVICE ENTRANCE RATED WHERE REQUIRED.

CIRCUIT BREAKER TYPE 480Y/277 VOLT APPLIANCE PANELBOARDS

480Y/277 VOLT AC, 3-PHASE, 4-WIRE S/N LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SQUARE D COMPANY TYPE NEHB, GENERAL ELECTRIC COMPANY TYPE "AE", OR APPROVED EQUAL, EQUIPPED WITH BOLT-ON THERMAL-MAGNETIC CIRCUIT BREAKERS. BREAKERS SHALL BE 1, 2, OR 3-POLE WITH AN INTEGRAL CROSSBAR TO ASSURE SIMULTANEOUS OPENING OF ALL POLES IN MULTIPOLE CIRCUIT BREAKERS. BOLT-ON CIRCUIT BREAKERS SHALL BE ABLE TO BE INSTALLED IN SAME PANELBOARD WITHOUT REQUIRING ADDITIONAL MOUNTING HARDWARE. CIRCUIT BREAKERS SHALL BE RATED 277 VOLTS AC (SINGLE POLE, 15 - 50 AMPERES) OR 480Y/277 VOLTS AC (2 AND 3 POLE, 15- 100 AMPERES) WITH CONTINUOUS CURRENT RATINGS, AS NOTED ON THE DRAWINGS. INTERRUPTING RATING SHALL BE 14,000 RMS SYMMETRICAL AMPERES UNLESS DRAWINGS INDICATE OTHERWISE. SINGLE POLE 15 AND 20 AMPERE CIRCUIT BREAKERS OTHERWISE. SINGLE POLE 15 AND 20 AMPERE CIRCUIT BREAKERS SHALL CARRY THE SWD MARKING. EACH PANELBOARD SHALL BE EQUIPPED WITH A BARE UNINSULATED EQUIPMENT GROUNDING BAR FOR USE IN TERMINATING SEPARATE EQUIPMENT GROUNDING CONDUCTORS. THE PANELBOARDS SHALL HAVE BREAKER UNITS UL LISTED FOR SERIES CONNECTION THROUGH 200 AMPERE, WITH UL CLASS R FUSES AND FOR USE ON SYSTEMS HAVING AVAILABLE SHORT CIRCUIT CURRENTS OF NOT MORE THAN 200,000 AMPERES RMS SYMMETRICAL, AT 480 VOLTS.

CIRCUIT BREAKER TYPE 208Y/120 VOLT APPLIANCE PANELBOARDS

208Y/120 VOLTS AC, 3-PHASE, 4-WIRE S/N LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SQUARE D COMPANY TYPE NQOD, OR GENERAL ELECTRIC CO., TYPE "AQ", OR APPROVED EQUAL, EQUIPPED WITH BOLT-ON THERMAL-MAGNETIC CIRCUIT BREAKERS. BREAKERS SHALL BE 1, 2, OR 3-POLE WITH INTEGRAL CROSSBAR TO ASSURE SIMULTANEOUS OPENING OF ALL POLES IN MULTIPLE CIRCUIT BREAKERS. BOLT-ON CIRCUIT BREAKERS SHALL BE ABLE TO BE INSTALLED IN SAME PANELBOARDS WITHOUT REQUIRING ADDITIONAL MOUNTING HARDWARE. CIRCUIT BREAKERS SHALL BE RATED 120/240 VOLTS AC (SINGLE POLE 15 - 50 AMPERE) OR 240 VOLT AC (2 AND 3-POLE, 15 - 50 AMPERE) WITH CONTINUOUS CURRENT RATINGS, AS NOTED ON THE DRAWINGS. INTERRUPTING RATING SHALL BE 10,000 RMS SYMMETRICAL AMPERE UNLESS DRAWINGS INDICATE OTHERWISE. SINGLE POLE 15 AND 20 AMPERE CIRCUIT BREAKERS SHALL CARRY THE SWD MARKING. EACH PANELBOARD SHALL BE EQUIPPED WITH A BARE UNINSULATED EQUIPMENT GROUNDING BAR FOR USE IN TERMINATING SEPARATE EQUIPMENT GROUNDING CONDUCTORS.

CIRCUIT BREAKER TYPE DISTRIBUTION PANELBOARDS

CIRCUIT BREAKER TYPE DISTRIBUTION PANELBOARDS SHALL BE SQUARE D COMPANY TYPE "HCM", GENERAL ELECTRIC COMPANY TYPE "CCB", OR APPROVED EQUAL, DEAD-FRONT, SAFETY TYPE, EQUIPPED WITH MOLDED CASE CIRCUIT BREAKERS. THE PANELBOARD BUS STRUCTURE AND MAIN LUGS OR MAIN BREAKER SHALL HAVE CURRENT RATINGS, AS SHOWN ON THE PANELBOARD SCHEDULES. CIRCUIT BREAKERS SHALL BE EQUIPPED WITH INTEGRAL TRIP UNITS, BRACED AND PROTECTED CONNECTORS. THE FRONT FACE OF ALL CIRCUIT BREAKERS SHALL BE MOUNTED FLUSH. THE PANELBOARDS, AS A COMPLETE UNIT, SHALL HAVE A MINIMUM SHORT CIRCUIT RATING OF NOT LESS THAN 25,000 AMPERE RMS AT 480 VOLTS, 60 HERTZ UNLESS DRAWINGS INDICATE OTHERWISE PANELBOARDS SHALL BE PROVIDED WITH A BARE UNINSULATED EQUIPMENT GROUNDING BAR FOR THE PURPOSE OF TERMINATING SEPARATE EQUIPMENT GROUNDING CONDUCTORS. PANELBOARDS SHALL BE UL LISTED AND LABELED.

CIRCUIT BREAKER TYPE 120/240 VOLT APPLIANCE PANELBOARDS

120/240 VOLTS AC, 1-PHASE, 3-WIRE S/N LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SQUARE D COMPANY, OR APPROVED EQUAL, EQUIPPED WITH BOLT-ON THERMAL-MAGNETIC CIRCUIT BREAKERS. BREAKERS SHALL BE 1-POLE WITH INTEGRAL CROSSBAR TO ASSURE SIMULTANEOUS OPENING OF ALL POLES IN MULTIPLE CIRCUIT BREAKERS. BOLT-ON CIRCUIT BREAKERS SHALL BE ABLE TO BE INSTALLED IN SAME PANELBOARDS WITHOUT REQUIRING ADDITIONAL HARDWARE. CIRCUIT BREAKERS SHALL BE RATED 120/240 VOLTS AC (SINGLE POLE 15 - 50 AMPERE) OR 240 VOLT AC (2-POLE, 15 - 50 AMPERE) WITH CONTINUOUS CURRENT RATINGS, AS NOTED ON THE DRAWINGS. INTERRUPTING RATING SHALL BE 10,000 RMS SYMMETRICAL AMPERE UNLESS DRAWINGS INDICATE OTHERWISE. SINGLE POLE 15 AND 20 AMPERE CIRCUIT BREAKERS SHALL CARRY THE SWD MARKING. EACH PANELBOARD SHALL BE EQUIPPED WITH A BARE UNINSULATED EQUIPMENT GROUNDING BAR FOR USE IN TERMINATING SEPARATE EQUIPMENT GROUNDING CONDUCTORS.

PANELBOARD ENCLOSURES

PROVIDE GALVANIZED SHEET STEEL CABINET TYPE ENCLOSURES FOR ALL PANELBOARDS IN SIZES AND NEMA TYPES, AS REQUIRED, RIGIDITY AND GAUGE OF STEEL TO BE AS SPECIFIED IN UL STANDARD 50 FOR CABINETS. WIRING GUTTER SPACE TO BE IN ACCORDANCE WITH UL STANDARD 67 FOR PANELBOARDS, AS A MINIMUM. LIGHTING AND APPLIANCE PANELBOARDS SHALL BE SUPPLIED WITH FRONT PANEL, INCLUDING A DOOR WITH FLUSH CYLINDER TUMBLER TYPE LOCK WITH CATCH AND SPRING-LOADED STAINLESS STEEL DOOR PULL. ALL PANELBOARDS SHALL BE KEYED ALIKE. FRONTS SHALL HAVE ADJUSTABLE INDICATING TRIM CLAMPS WHICH SHALL BE COMPLETELY CONCEALED WHEN DOORS ARE CLOSED. DOORS SHALL BE MOUNTED WITH COMPLETELY CONCEALED STEEL HINGES. DOORS SHALL NOT BE REMOVABLE WITH DOOR IN LOCKED POSITION. A CIRCUIT DIRECTORY FRAME AND CARD WITH CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. THE POWER DISTRIBUTION PANELBOARDS SHALL BE EQUIPPED WITH LOCKABLE DOORS AND HAVE CONCEALED, SELF-ADJUSTING TRIM CLAMPS. FRONTS SHALL BE OF FULL-FINISHED STEEL WITH RUST INHIBITING PRIMER AND BAKED ENAMEL FINISH. FURNISH EACH PANELBOARD WITH HINGED TRIM OPTION.

CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS

NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE RATING OF THE EXISTING PANELBOARD.

SUPPORTING DEVICES

ALL ELECTRICAL EQUIPMENT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF STRUT, BEAM CLAMPS, THREADED ROD, ONE HOLE MALLEABLE IRON CONDUIT STRAPS, ETC. THE CEILING SUPPORT SYSTEM SHALL NOT BE USED FOR SUPPORTING CONDUIT.

SEISMIC RESTRAINTS

ALL ELECTRICAL EQUIPMENT SHALL BE SUPPORTED WITH MULTIDIRECTIONAL BRACING AS REQUIRED BY THE NATIONAL, STATE, AND/OR LOCAL BUILDING CODES.

THIS CONTRACTOR SHALL CONSULT THE APPROPRIATE BUILDING CODE TO DETERMINE THE DESIGN REQUIREMENTS FOR SEISMIC BRACING.

THIS CONTRACTOR SHALL EMPLOY A FIRM LICENSED IN THE TRADE TO DESIGN SEISMIC BRACING FOR ALL HIS EQUIPMENT.

PROVIDE SEISMIC BRACING PRODUCTS AS MANUFACTURED BY MASON INDUSTRIES INC. OF ANAHEIM, CALIFORNIA OR AN APPROVED EQUAL.

GROUNDING

PROVIDE GROUNDING AS REQUIRED BY THE DL LISTED ELECTRICAL CODE AND LOCAL CODES. PROVIDE SYSTEM AND ENCLOSURE GROUNDING AT THE SERVICE ENTRANCE PANEL. PROVIDE EXTERNAL 3/4" X 10' COPPERCLAD GROUND ROD OUTSIDE THE BUILDING. PROVIDE GROUNDING ELECTRODE CONDUCTORS IN ACCORDANCE WITH ARTICLE 250-94 OF THE NATIONAL ELECTRICAL CODE. PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL FLEXIBLE CONDUIT CONNECTIONS. CONNECT ALL GROUNDING CONDUCTORS WITH APPROVED GROUND CLAMPS.

LIGHTING

PROVIDE LIGHTING FIXTURES AND LAMPS PER THE "LIGHTING FIXTURE SCHEDULE" SHOWN ON THE DRAWINGS. PROVIDE RETAINER CLIPS ON ALL LAY-IN RECESSED LIGHT FIXTURES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND APPLICABLE BUILDING CODES.

ALL EMERGENCY LIGHTING FIXTURES SHALL BE PERMANENTLY CONNECTED TO THE ELECTRICAL SYSTEM. PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES AT CIRCUIT BREAKERS CONTROLLING EXIT AND EMERGENCY LIGHTING CIRCUITS.

SERVICE ENTRY PANEL - SPD

PROVIDE SURGE PROTECTIVE DEVICE (SPD) TYPE 2 (TRANSIENT VOLTAGE SURGE SUPPRESSION/SURGE ARRESTOR) INTEGRAL TO PANELBOARD DIRECT CONNECTED TO THE PANEL BUS. SPD SHALL HAVE A SHORT CIRCUIT RATING EQUAL TO OR GREATER THAN THE INTERRUPTING RATING OF THE MAIN BREAKER. PROTECTION SHALL BE NOMINALLY RATED 160 KA PER PHASE AND 80 KA NEUTRAL TO GROUND. UNITS SHALL BE UL 1283 AND UL 1449 (4TH EDITION) LABELED. PROTECTORS SHALL HAVE A NOMINAL DISCHARGE CURRENT OF 10KA. PROTECTION SHALL BE PROVIDED WITH INTEGRAL OVERCURRENT PROTECTION AND SURGE COUNTER. WHERE REQUIRED, PROVIDE 60/3 CIRCUIT BREAKER IN PANEL TO SERVE SPD.

ARC ENERGY REDUCTION SYSTEMS

ALL CIRCUIT BREAKERS (SWITCHBOARD, PANELBOARD AND FREE STANDING) AND FUSES RATED 1200 AMPS AND GREATER SHALL BE FURNISHED WITH AN ARC ENERGY REDUCTION SYSTEM IN ACCORDANCE WITH ARTICLES 240.67 AND 240.87 OF NATIONAL ELECTRICAL CODE, 2020 EDITION.

THE SWITCHGEAR MANUFACTURER MAY FURNISH ANY ONE OF THE ARC ENERGY REDUCTION METHODS LISTED AS ACCEPTABLE BY NEC. THE MANUFACTURER WILL BE RESPONSIBLE FOR FURNISHING ALL MATERIALS AND DOCUMENTATION REQUIRED TO MEET THE ENERGYREDUCTION METHOD. IF CALCULATIONS ARE REQUIRED FOR PROTECTIVE DEVICE SETTINGS, ALL CALCULATIONS AND RECOMMENDED SETTINGS SHALL BE PROVIDED AS PART OF THE ARC ENERGY REDUCTION METHOD.

IF AN ARC FLASH ENERGY REDUCTION MAINTENANCE SWITCH IS PROVIDED, IT SHALL BE FURNISHED WITH A LOCAL STATUS INDICATOR. THE SWITCH SHALL BE FURNISHED WITH A CLEAR COVER THAT SHALL CLOSE OVER THE SWITCH. THE COVER SHALL HAVE PADLOCK PROVISIONS SO THAT IT CAN BE USED AS PART OF A LOCKOUT/TAGOUT SYSTEM.

INSTRUCTIONS FOR OPERATION OF THE SYSTEM SHALL BE INSTALLED ADJACENT TO THE MAINTENANCE SWITCH AND INDICATING LIGHT. IF AN ALTERNATE METHOD IS UTILIZED, AN INSTRUCTIONAL NAMEPLATE SHALL BE PROVIDED TO INDICATE HOW ARC ENERGY REDUCTION IS ACCOMPLISHED.

WHEN AN ENERGY REDUCTION MAINTENANCE SYSTEM IS PROVIDED, THE MANUFACTURER SHALL BE RESPONSIBLE FOR RECOMMENDING THE NORMAL AND MAINTENANCE MODE TRIP SETTINGS FOR THESE BREAKERS. THE MANUFACTURER SHALL PROVIDE COORDINATION CURVES FOR EACH BREAKER FOR BOTH NORMAL AND MAINTENANCE MODE ALONG WITH A CALCULATION OF DOWNSTREAM INCIDENT ENERGY FOR BOTH MODES. A COMPLETE COORDINATION AND ARC FLASH STUDY ISN'T REQUIRED UNLESS SPECIFICALLY LISTED IN ANOTHER SECTION OF THE SPECIFICATIONS.

COORDINATION STUDY

THE SWIT

FIRE PROTECTION LEGEND

NOT ALL SYMBOLS MAY BE USED

SYMBOL	DESCRIPTION
DPSS — DPSS	DRY PIPE SPRINKLER SYSTEM
F — F	FIRE MAIN
⊐D	PIPE TURN DOWN
⊐D	PIPE TURN UP
	GATE VALVE
	CHECK VALVE
	CAP/PLUG
	UNION
I.E.	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR
DCVA	DOUBLE CHECK VALVE ASSEMBLY
F- "	FIRE RISER NO.
	RISER SIZE
	SPRINKLER - UPRIGHT
	SPRINKLER - CONCEALED
	SPRINKLER - RECESSED PENDANT
	SIDEWALL SPRINKLER
	EXTENDED COVERAGE S.W. SPRINKLER
	NON-FREEZE SIDEWALL SPRINKLER
FDC	FIRE DEPARTMENT CONNECTION
PIV	POST INDICATOR VALVE
TB	THRUST BLOCK
FH	FIRE HYDRANT
	SPRINKLER RISER
	NEW UNDERGROUND PIPE
	EXISTING UNDERGROUND PIPE
TS	TAMPER SWITCH
FS	WATERFLOW SWITCH
PS	PRESSURE SWITCH

FIRE PROTECTION SHEET INDEX

NUMBER	SHEET NAME
FP0.01	General Notes and Legend - Fire Protection
FP1.01	Site Plan - Fire Protection
FP1.10	First Floor Plan - Fire Protection
FP1.20	Second Floor Plan - Fire Protection
FP1.30	Third Floor Plan - Fire Protection
FP1.40	Fourth Floor Plan - Fire Protection
FP2.01	Enlarged Unit Plans - Fire Protection

GENERAL NOTES

1. THIS DOES NOT REPRESENT A FIRE PROTECTION SHOP DRAWING DESIGN. THIS DOCUMENT IS TO SHOW DESIGN INTENT. FINAL HYDRAULIC CALCULATIONS, HEAD LAYOUTS, AND PIPE SIZES, COMPLYING WITH ALL CODES, FOR A COMPLETE AND OPERATIONAL SYSTEM ARE TO BE SUPPLIED BY THE FIRE PROTECTION CONTRACTOR.
2. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE FINAL DESIGN FOR THE FIRE SPRINKLER SYSTEM AND SHALL PROVIDE THE ARCHITECT/ENGINEER AND THE AUTHORITIES HAVING JURISDICTION, SHOP DRAWINGS AND HYDRAULIC CALCULATIONS, IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, FOR REVIEW.
3. THE FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA 13 AND ALL APPLICABLE REGULATORY REQUIREMENTS AND BUILDING CODES AS INTERPRETED BY THE AUTHORITIES HAVING JURISDICTION. WHERE CONFLICTS EXIST BETWEEN SUCH REGULATORY OR CODE REQUIREMENTS, SUCH CONFLICT SHALL BE IDENTIFIED FOR THE REVIEW OF THE ARCHITECT AND ENGINEER.
4. COORDINATE WITH ARCHITECTURAL RCP, HVAC, ELECTRICAL, PLUMBING AND STRUCTURAL ELEMENTS AS REQUIRED FOR PROPER INSTALLATION OF SPRINKLER SYSTEM PIPING AND HEADS.
5. PROVIDE FLEXIBLE COUPLINGS AT FLEXURE JOINTS PER NFPA 13 SECTION 9.3.2.1. PROVIDE CLEARANCE AROUND PIPING PASSING THROUGH FLOORS, WALL AND FOUNDATIONS WHERE REQUIRED PER NFPA 13 SECTION 9.3.4.
6. ALL FIRE PROTECTION EQUIPMENT SHALL BE U.L. LISTED.
7. PROVIDE SEISMIC RESTRAINT FOR ALL FIRE PROTECTION PIPING AND EQUIPMENT IN ACCORDANCE WITH ASCE 7-16. SEE SPECFICATIONS.
8. PROVIDE INSPECTOR TEST VALVES AT INSULATED, ACCESSIBLE LOCATIONS WITH DRAINS DISCHARGED TO THE EXTERIOR OF THE BUILDING.
9. PROVIDE A BELL, ACTIVATED BY THE SPRINKLER SYSTEM, ON THE EXTERIOR OF THE BUILDING.
10. PROVIDE SWING JOINTS ON ALL HEADS TO CENTER HEADS IN CEILING GRID WHERE ONE IS PROVIDED (2 DIRECTIONS).
11. HANG ALL ARMOVERS LONGER THAN 12"CC.
12. ALL PIPE PENETRATIONS THROUGH THE STRUCTURE TO BE CORE DRILLED.
13. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH THE STRUCTURE.
14. ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIRE PROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
15. PROVIDE AN O.S.&Y. VALVE WITH TAMPER SWITCH AND A WATER FLOW SWITCH FOR EACH SPRINKLER ZONE.
16. ALL CONTROL VALVES TO BE EQUIPPED WITH A TAMPER SWITCH.
17. SPRINKLER PIPING SHOWN ABOVE FLOOR OR GRADE SHALL BE INSTALLED ABOVE CEILING WHERE CEILINGS ARE PROVIDED.
18. PROVIDE BRASS TAGS ON ALL VALVES.
19. INSTALL CHROME, METAL SPLIT TYPE PIPE ESCUTCHEON AT EXPOSED WALL PENETRATIONS.
20. ALL SYSTEM GAUGES AND VALVES SHALL BE ACCESSIBLE FOR MAINTENANCE AND INSPECTION.
21. PIPE TO HAVE A MINIMUM 3'-0" BURY FROM TOP OF PIPE.
22. ALL PIPING TO BE PROPERLY BLOCKED, RODDED, OR CLAMPED.
23. ALL RODDING PER NFPA 24.
24. BITUMINOUS COAT ALL UNDERGROUND BOLTS, RODS, AND CONNECTORS.
25. FLUSH ALL UNDERGROUND PIPING PER NFPA.
26. SPRINKLER HEADS WITHIN 36" OF SUPPLY GRILLES IN ANY DIRECTION SHALL HAVE INTERMEDIATE CLASSIFICATION PER NFPA 13 TABLE 3-2.5.1.

FIRE PROTECTION SPECIFICATIONS

SCOPE OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM. FIRE PROTECTION SYSTEM INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- COVERAGE FOR ENTIRE BUILDING (UNLESS NOTED OTHERWISE). REVIEW ALL PLANS INCLUDING ARCHITECTURAL ELEVATIONS, SECTIONS, AND DETAILS TO INSURE ADEQUATE COVERAGE.
- PROVIDE HYDRAULICALLY DESIGNED SYSTEM TO NFPA 13 OCCUPANCY REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE FIRE FLOW TEST PRIOR TO CONSTRUCTION. COORDINATE FIRE FLOW TEST WITH LOCAL UTILITY AND AHJ AS REQUIRED PER LOCAL CODE AND PAY ALL COSTS ASSOCIATED WITH FIRE FLOW TEST. DETERMINE VOLUME AND PRESSURE OF INCOMING WATER SUPPLY FROM WATER FLOW TEST DATA.
- INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.
- PROVIDE FIRE DEPARTMENT CONNECTIONS, PIVs & FIRE HYDRANTS AS INDICATED ON DRAWINGS.
- IT IS THE INTENT THAT THE BUILDING BE COVERED WITH A "WET" TYPE SPRINKLER SYSTEM.
- THE SPRINKLER DESIGN SHALL BE LIGHT HAZARD GROUP AND ORDINARY HAZARD GROUP 1 (STORAGE SPACES 100FT² OR LARGER AND JANITOR CLOSETS) USING UPRIGHT, PENDANT, CONCEALED OR SEMI-RECESSED SPRINKLER HEADS.
- PROVIDE COMPLETE SHOP DRAWINGS PER SPECIFICATIONS INDICATING ALL HVAC, ELECTRICAL, PLUMBING, AND STRUCTURAL ELEMENTS ON SAME. ALL PLANS SHALL BE FULLY DIMENSIONED AS TO LOCATION OF SPRINKLER PIPING.
- OBTAIN STAMPED AND WRITTEN APPROVAL OF SYSTEM FROM ALL GOVERNING AUTHORITIES PRIOR TO SUBMITTING SAME FOR APPROVAL TO THE ARCHITECT.

ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND OTHER REGULATIONS GOVERNING WORK. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

EQUIPMENT INDICATED ON THE DRAWINGS OR AS REQUIRED FOR A COMPLETE INSTALLATION SHALL BE PROVIDED WITHIN THE SCOPE OF WORK OF THIS SECTION. CONTRACTOR SHALL FIELD COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH THE OWNER.

PERMITS

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK. RETAIN CERTIFICATES OF INSPECTIONS AND SUBMIT WHEN WORK IS COMPLETE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES ENFORCED BY CITY, COUNTY, STATE, AND/OR FEDERAL AUTHORITIES.

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT AND THEY SHALL BE CLEARLY LABELED AS FOLLOWS:

- SHOP DRAWINGS: INDICATE LAYOUT OF FINISHED CEILING AREAS INDICATING SPRINKLER LOCATIONS COORDINATED WITH CEILING INSTALLATION. INDICATE DETAILED PIPE LAYOUT, HANGERS AND SUPPORTS, SPRINKLERS, COMPONENTS AND ACCESSORIES. INDICATE SYSTEM CONTROLS.
- PRODUCT DATA: SUBMIT DATA ON SPRINKLERS, VALVES, AND SPECIALTIES. INCLUDING MANUFACTURERS CATALOG INFORMATION. SUBMIT PERFORMANCE RATINGS, ROUGH-IN DETAILS, WEIGHTS, SUPPORT REQUIREMENTS, AND PIPING CONNECTIONS.
- DESIGN DATA: SUBMIT DESIGN CALCULATIONS; SIGNED AND SEALED BY A NICET LEVEL III CERTIFIED TECHNICIAN.
- MANUFACTURER'S CERTIFICATE: CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.

CLOSEOUT SUBMITTALS

- PROJECT RECORD DOCUMENTS: RECORD ACTUAL LOCATIONS OF SPRINKLERS AND DEVIATIONS OF PIPING FROM DRAWINGS. INDICATE DRAIN AND TEST LOCATIONS.
- OPERATION AND MAINTENANCE DATA: SUBMIT COMPONENTS OF SYSTEM, SERVICING REQUIREMENTS, RECORD DRAWINGS, INSPECTION DATA, REPLACEMENT PART NUMBERS AND AVAILABILITY.

MISCELLANEOUS

ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SIZES, WEIGHTS ELECTRICAL CONNECTIONS, AND CLEARANCES ARE COMPATIBLE WITH THE DESIGN CONCEPT SHOWN ON THE DRAWING. THESE CHANGES SHALL BE ACCOMPLISHED BY THE CONTRACTOR. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

GUARANTEE

MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

FOR THE SAME PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

PIPING

UNDERGROUND PIPING

PROVIDE WATER SERVICE LINES FOR FIRE PROTECTION AS PVC PIPE. PIPES & FITTINGS SHALL BE PLAIN END OR GASKET BELL END, PRESSURE CLASS 200 WITH CAST-IRON PIPE EQUIVALENT OD. PIPE & FITTINGS SHALL BEAR THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF). FITTINGS SHALL BE GREY IRON OR DUCTILE IRON WITH CEMENT-MORTAR LINING.

PVC CLASS 150 PIPING SHALL BE ACCEPTABLE UNDERGROUND EXCEPT UNDER THE FOUNDATION, WHICH SHALL BE CLASS 350 DUCTILE IRON.

ABOVE GROUND PIPING

PIPE SIZE 2" AND SMALLER: ASTM A53; OR ASTM A795; SCHEDULE 40 BLACK, GALVANIZED FOR DRY PIPE SYSTEM.

- STEEL FITTINGS: ASME B16.9, WROUGHT STEEL, BUTT WELDED; ASME B16.25, BUTT WELD ENDS; OR ASME B16.11, FORGED STEEL SOCKET WELDED AND THREADED.
- CAST IRON FITTINGS: ASME B16.4, THREADED FITTINGS.
- MALLEABLE IRON FITTINGS: ASME B16.3, THREADED FITTINGS.
- MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.
- BLACK STEEL PIPE SHALL BE ACCEPTABLE FOR ALL DRY OR WET SYSTEMS.

PIPE SIZE 2-1/2" AND LARGER: ASTM A135; OR ASTM A795; SCHEDULE 10 OR 40, BLACK, GALVANIZED FOR DRY PIPE SYSTEM.

- MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.
- SCHEDULE 10 PIPE: ROLLED GROOVE.
- CAST IRON PIPE: AWWA C151.
- FITTINGS: AWWA C110, STANDARD THICKNESS.
- JOINTS: AWWA C111, RUBBER GASKET.
- MECHANICAL GROOVED COUPLINGS: MALLEABLE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED COMPOSITION SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS; GALVANIZED FOR GALVANIZED PIPE.
- BLACK STEEL PIPE SHALL BE ACCEPTABLE FOR ALL DRY OR WET SYSTEMS.

PIPE HANGERS AND SUPPORTS

ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACE OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

- INSTALL IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
- INSTALL HANGERS TO WITH MINIMUM 1/2 INCH SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.
- PLACE HANGERS WITHIN 12 INCHES OF EACH HORIZONTAL ELBOW.
- USE HANGERS WITH 1-1/2 INCH MINIMUM VERTICAL ADJUSTMENT. DESIGN HANGERS FOR PIPE MOVEMENT WITHOUT DISENGAGEMENT OF SUPPORTED PIPE.
- SUPPORT VERTICAL PIPING AT EVERY FLOOR. SUPPORT RISER PIPING INDEPENDENTLY OF CONNECTED HORIZONTAL PIPING.
- WHERE INSTALLING SEVERAL PIPES IN PARALLEL AND AT SAME ELEVATION, PROVIDE MULTIPLE OR TRAPEZE HANGERS.
- PRIME COAT EXPOSED STEEL HANGERS AND SUPPORTS. HANGERS AND SUPPORTS LOCATED IN CRAWL SPACES, PIPE SHAFTS, AND SUSPENDED CEILING SPACES ARE NOT CONSIDERED EXPOSED.
- HANGERS FOR PIPE SIZES 1/2 TO 1-1/2 INCH: CARBON STEEL, ADJUSTABLE SWIVEL, SPLIT RING.
- HANGERS FOR PIPE SIZES 2 INCH AND OVER: CARBON STEEL, ADJUSTABLE, CLEVIS.
- MULTIPLE OR TRAPEZE HANGERS: STEEL CHANNELS WITH WELDED SPACERS AND HANGER RODS.
- WALL SUPPORT FOR PIPE SIZES TO 3 INCHES: CAST IRON HOOK.
- WALL SUPPORT FOR PIPE SIZES 4 INCHES AND OVER: WELDED STEEL BRACKET AND WROUGHT STEEL CLAMP.
- VERTICAL SUPPORT: STEEL RISER CLAMP.
- FLOOR SUPPORT: CAST IRON ADJUSTABLE PIPE SADDLE, LOCK NUT, NIPPLE, FLOOR FLANGE, AND CONCRETE PIER OR STEEL SUPPORT.
- COPPER PIPE SUPPORT: CARBON STEEL RING, ADJUSTABLE, COPPER PLATED.

EXECUTION

PREPARATION

- REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.
- REMOVE SCALE AND FOREIGN MATERIAL, FROM INSIDE AND OUTSIDE, BEFORE ASSEMBLY.
- PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.

INSTALLATION

- INSTALL PIPING IN ACCORDANCE WITH NFPA 13 FOR SPRINKLER SYSTEMS, NFPA 14 FOR STANDPIPE AND HOSE SYSTEMS, AND NFPA 24 FOR SERVICE MAINS.
- ROUTE PIPING IN ORDERLY MANNER, PLUMB AND PARALLEL TO BUILDING STRUCTURE. MAINTAIN GRADIENT.
- INSTALL PIPING TO CONSERVE BUILDING SPACE, TO NOT INTERFERE WITH USE OF SPACE AND OTHER WORK.
- GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS.
- INSTALL PIPE SLEEVE AT PIPING PENETRATIONS THROUGH PARTITIONS, WALLS, AND FLOORS. SEAL PIPE AND SLEEVE PENETRATIONS TO MAINTAIN FIRE RESISTANCE EQUIVALENT TO FIRE SEPARATION.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- SLOPE PIPING AND ARRANGE SYSTEMS TO DRAIN AT LOW POINTS. INSTALL ECCENTRIC REDUCERS TO MAINTAIN TOP OF PIPE LEVEL.
- PREPARE PIPE, FITTINGS, SUPPORTS, AND ACCESSORIES FOR FINISH PAINTING. WHERE PIPE SUPPORT MEMBERS ARE WELDED TO STRUCTURAL BUILDING FRAMING, SCRAPE, BRUSH CLEAN, AND APPLY ONE COAT OF ZINC RICH PRIMER TO WELDING.
- DO NOT PENETRATE BUILDING STRUCTURAL MEMBERS UNLESS INDICATED.
- WHERE MORE THAN ONE PIPING SYSTEM MATERIAL IS SPECIFIED, INSTALL COMPATIBLE SYSTEM COMPONENTS AND JOINTS. INSTALL FLANGES, UNION, AND COUPLINGS AT LOCATIONS REQUIRING SERVICING.
- DIE CUT THREADED JOINTS WITH FULL CUT STANDARD TAPER PIPE THREADS WITH RED LEAD AND LINSEED OIL OR OTHER NON-TOXIC JOINT COMPOUND APPLIED TO MALE THREADS ONLY.
- INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED. REMOVE PROTECTIVE COATINGS AFTER INSTALLATION.
- INSTALL GATE OR BALL VALVES FOR SHUT-OFF OR ISOLATING SERVICE.
- INSTALL DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS OF PIPING AND APPARATUS.
- WHERE INSERTS ARE OMITTED, DRILL THROUGH CONCRETE SLAB FROM BELOW AND INSTALL THROUGH-BOLT WITH RECESSED SQUARE STEEL PLATE AND NUT FLUSH WITH TOP OF SLAB.

INTERFACE WITH OTHER PRODUCTS

- INSTALL INSERTS FOR PLACEMENT IN CONCRETE FORMS.
- INSTALL INSERTS FOR SUSPENDING HANGERS FROM REINFORCED CONCRETE SLABS AND SIDES OF REINFORCED CONCRETE BEAMS.
- INSTALL HOOKED ROD TO CONCRETE REINFORCEMENT SECTION FOR INSERTS CARRYING PIPE OVER 4 INCHES.
- WHERE CONCRETE SLABS FORM FINISHED CEILING, LOCATE INSERTS FLUSH WITH SLAB SURFACE.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.

CLEANING

CLEAN ENTIRE SYSTEM AFTER OTHER CONSTRUCTION IS COMPLETE.

SEISMIC NOTES

SEISMIC RESTRAINT

PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND THERE ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. CONTRACTOR SHALL INCLUDE THIS DESIGN IN THEIR BID.

SEISMIC RESTRAINT FOR PIPING MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS. PROVIDE LAYOUT DRAWINGS AS A SUBMITTAL TO THE ARCHITECT / ENGINEER FOR REVIEW.

- BRACE ALL PIPES 2 ½" INSIDE DIAMETER AND LARGER.
- TRANSVERSE AND VERTICAL BRACING SHALL OCCUR AT 40 FT. INTERVALS MAX. LONGITUDINAL BRACING SHALL OCCUR AT 80 FT INTERVALS MAX.
- WALLS, INCLUDING DRYWALL PARTITIONS, MAY REPLACE REQUIRED TRANSVERSE OR VERTICAL BRACING FOR PIPING.
- DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
- SWAY BRACING SHALL BE DESIGNED AND INSTALLED PER NFPA-13.
- WHERE PIPES PASS THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS OR FLOORS, THE HOLE SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLE IS 2" LARGER THAN THE PIPE FOR 1" NOMINAL TO 3 ½" NOMINAL AND 4" LARGER THAN THE PIPE 4" NOMINAL AND LARGER. WHERE REQUIRED, THE CLEARANCE SHALL BE FILLED WITH A FLEXIBLE MATERIAL SUCH AS MASTIC.

SPRINKLERS

FINISHED CEILINGS

- TYPE: CONCEALED SPRINKLER HEAD WITH COVER MATCHING CEILINGS SPECIFIED BY ARCHITECT.
- FINISH: AS SELECTED BY ARCHITECT.
- ESCUTCHEON PLATE FINISH: AS SELECTED BY ARCHITECT.
- FUSIBLE LINK: GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.

EXPOSED AREA TYPE

- TYPE: STANDARD UPRIGHT TYPE.
- FINISH: BRASS PLATED.
- FUSIBLE LINK: GLASS BULB TYPE TEMPERATURE RATED FOR SPECIFIC AREA HAZARD.

INSTALLATION

- INSTALL IN ACCORDANCE WITH NFPA 13.
- PLACE PIPE RUNS TO MINIMIZE OBSTRUCTION TO OTHER WORK.
- INSTALL PIPING IN CONCEALED SPACES ABOVE FINISHED CEILINGS.
- CENTER SPRINKLERS IN TWO DIRECTIONS IN CEILING TILE (UNLESS NOTED OTHERWISE OR NOT POSSIBLE DUE TO SPACING) AND INSTALL PIPING OFFSETS. HYDROSTATICALLY TEST ENTIRE SYSTEM.
- REQUIRE TEST BE WITNESSED BY AUTHORITY HAVING JURISDICTION.
- APPLY MASKING TAPE OR PAPER COVER TO PROTECT CONCEALED SPRINKLERS, COVER PLATES, AND SPRINKLER ESCUTCHEONS NOT RECEIVING FIELD PAINT FINISH. REMOVE AFTER PAINTING. REPLACE PAINTED SPRINKLERS WITH NEW.

VALVES

GATE VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE BODY AND TRIM, RISING STEM, HAND WHEEL, SOLID WEDGE OR DISC, THREADED ENDS.
- OVER 2 INCHES: IRON BODY, BRONZE TRIM, RISING STEM PRE-GROOVED FOR MOUNTING TAMPER SWITCH, HAND WHEEL, OS&Y, SOLID RUBBER COVERED BRONZE OR CAST IRON WEDGE, FLANGED OR GROOVED ENDS.
- OVER 4 INCHES: IRON BODY, BRONZE TRIM, RISING STEM WITH BOLTED BONNET, SOLID BRONZE WEDGE, FLANGED ENDS, IRON BODY INDICATOR POST ASSEMBLY.

GLOBE VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE BODY, BRONZE TRIM, RISING STEM AND HAND WHEEL, INSIDE SCREW, RENEWABLE RUBBER DISC, THREADED ENDS, WITH BACK SEATING CAPACITY PACKABLE UNDER PRESSURE.
- OVER 2 INCHES: IRON BODY, BRONZE TRIM, RISING STEM, HAND WHEEL, OS&Y, PLUG-TYPE DISC, FLANGED ENDS, RENEWABLE SEAT AND DISC.

BALL VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE TWO PIECE BODY, BRASS, CHROME PLATED BRONZE, OR STAINLESS STEEL BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE AND THREADED ENDS WITH UNION.
- OVER 2 INCHES: MANUFACTURERS: CAST STEEL BODY, CHROME PLATED STEEL BALL, TEFLON SEAT AND STUFFING BOX SEALS, AND LEVER HANDLE.

CHECK VALVES

- UP TO AND INCLUDING 2 INCHES: BRONZE BODY AND SWING DISC, RUBBER SEAT, THREADED ENDS.
- OVER 2 INCHES: IRON BODY, BRONZE TRIM, SWING CHECK WITH RUBBER DISC, RENEWABLE DISC AND SEAT, FLANGED ENDS WITH AUTOMATIC BALL CHECK.
- 4 INCHES AND OVER: IRON BODY, BRONZE DISC WITH STAINLESS STEEL SPRING, RESILIENT SEAL, THREADED, WAFER, OR FLANGED ENDS.

DRAIN VALVES

- COMPRESSION STOP: BRONZE WITH HOSE THREAD NIPPLE AND CAP.
- BALL VALVE: BRASS WITH CAP AND CHAIN, 3/4 INCH HOSE THREAD.

FIRE PUMP SCHEDULE

MARK	MANUF.	MODEL	DESCRIPTION	GPM	HEAD (PSI)	RPM	V/PH/HZ	HP	REMARKS
FP-1									

NOTES:
1. UL LISTED HORIZONTAL SPLIT CASE ELECTRIC DRIVEN FIRE PUMP.
2. PROVIDE ULSE RATED REDUCED VOLTAGE SOFT START STARTER FIP CONTROLLER

TO BE COMPLETED

JOCKEY PUMP SCHEDULE

MARK	MANUF.	MODEL	GPM	(PSI)	RPM	V/PH/HZ	HP	REMARKS
JP-1								

NOTES:
1. PROVIDE WITH ELECTRICAL DISCONNECT.
2. UL LISTED INLINE JOCKEY PUMP FOR FIRE PROTECTION SERVICE.
3. PROVIDE FULL VOLTAGE STARTER AND MINIMUM RUN TIMER.

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

General Notes and Legend - Fire Protection

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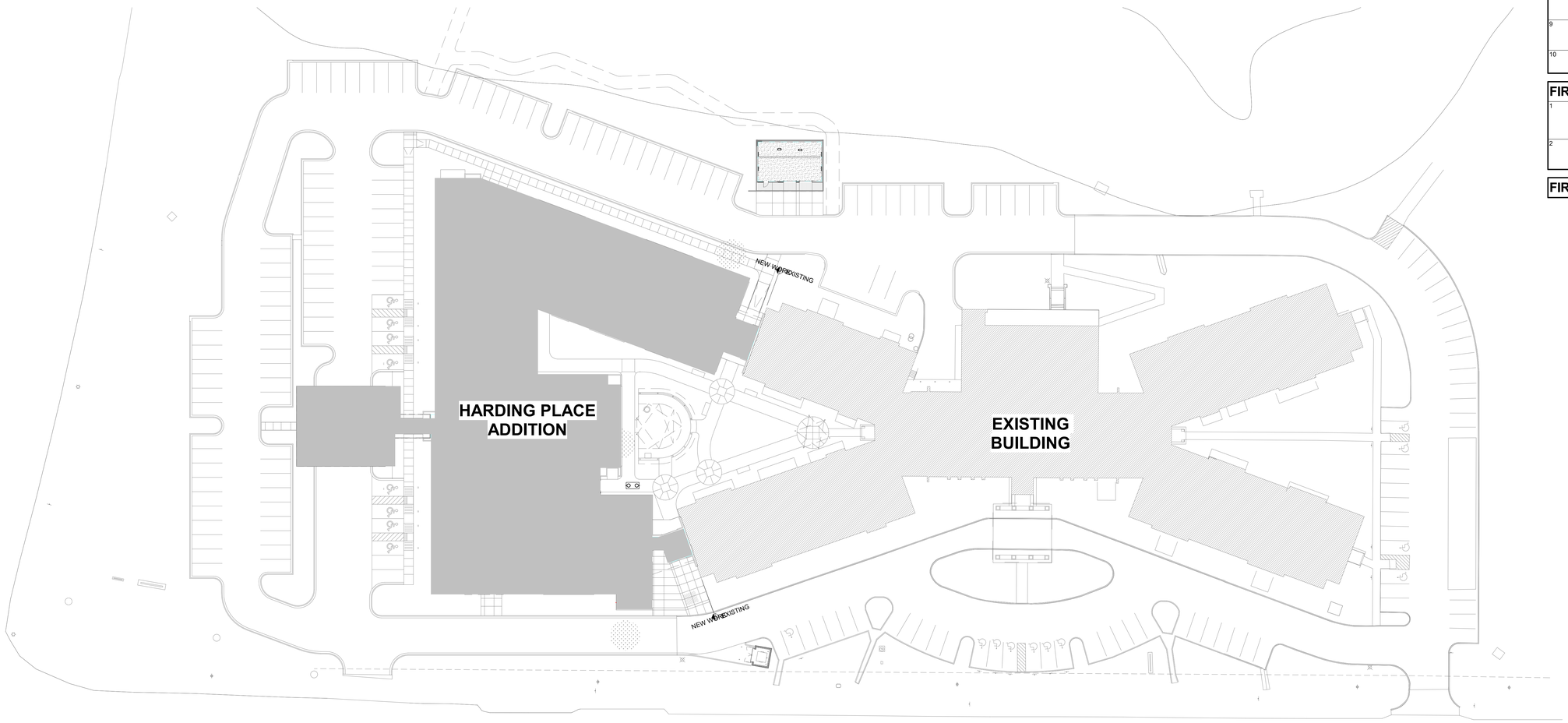
13 FEB. 2026

PHASE

Design Development

DRAWING NUMBER

FP0.01



DEMOLITION NOTES

1	THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS OF THE MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS PRIOR TO SUBMITTING A BID AND BEFORE BEGINNING WORK. BRING ANY DISCREPANCIES FROM THE DRAWINGS AND NOTES TO THE ARCHITECT IMMEDIATELY. MINOR CHANGES IN THE SCOPE OF DEMOLITION WORK SHALL NOT JUSTIFY AN ADDITIONAL COST.
2	REMOVAL OF EXISTING FIXTURES, PIPING, AND EQUIPMENT WILL REQUIRE ISOLATING THE PIPING RISERS OR MAINS VIA SHUT-OFF VALVES. PROVIDE NEW ISOLATION VALVES AS REQUIRED FOR COMPLETION OF WORK.
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FIRE PROTECTION NOTES

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2	SYSTEM SHALL PROVIDE COMPLETE COVERAGE / DENSITY FOR ALL AREAS IN COMPLIANCE WITH NFPA 13, LOCAL FIRE OFFICIAL'S REQUIREMENTS, AND INSURANCE UNDERWRITER'S REQUIREMENTS.

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Site Plan - Fire Protection

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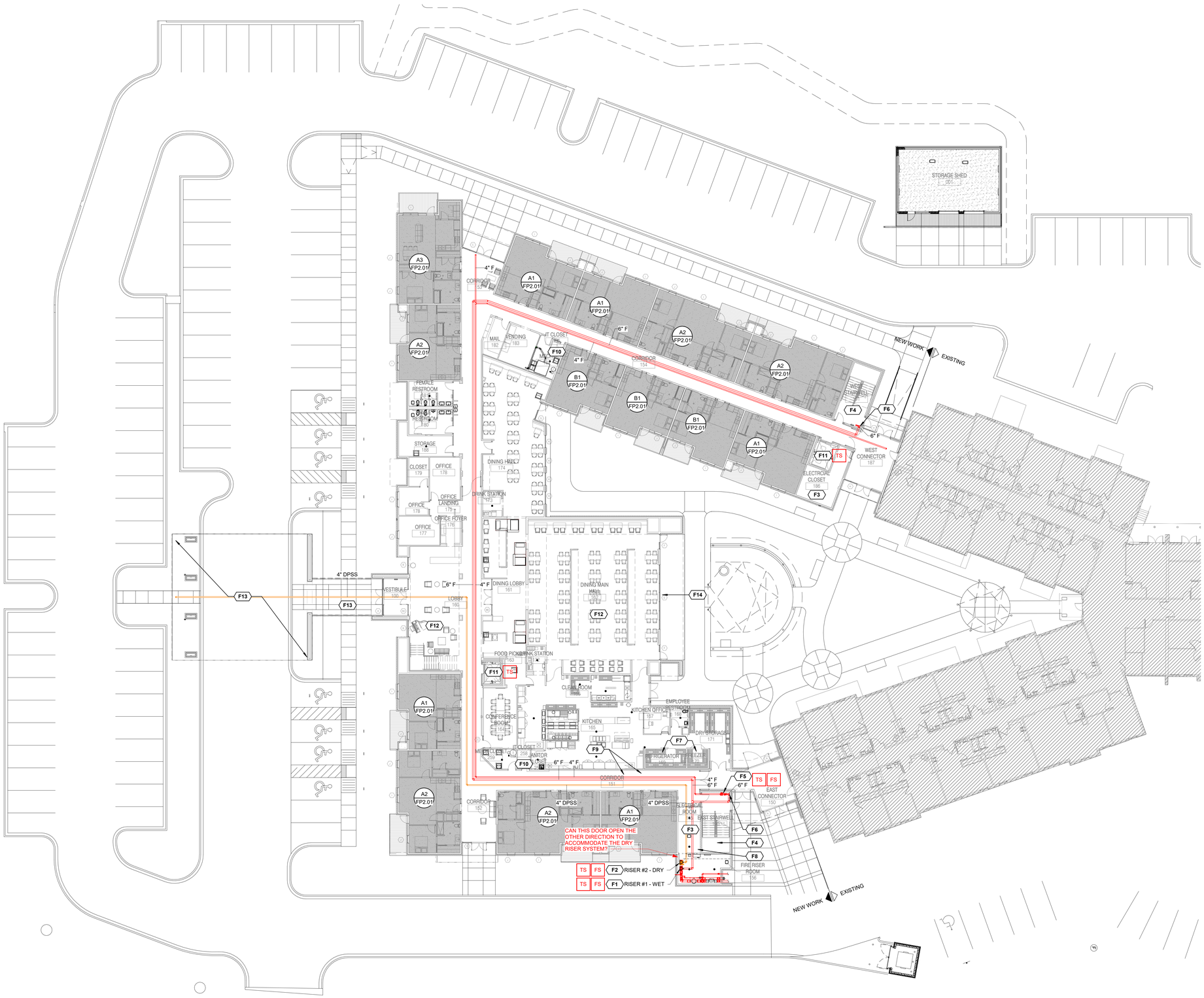
DRAWING NUMBER

FP1.01

A1 Site Plan - Fire Protection

SCALE: 1" = 30'-0"

0' 5' 30' 60' 120'



FIRE PROTECTION NOTES

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FIRE PROTECTION KEYNOTES

F1	PROVIDE DEDICATED CONTROL VALVE WITH NEW FLOW AND TAMPER SWITCHES FOR THE WET SPRINKLER RISER. LABEL CONTROL VALVES TO INDICATE AREA SERVED.
F2	PROVIDE DEDICATED CONTROL VALVE WITH NEW FLOW AND TAMPER SWITCHES FOR THE DRY SPRINKLER RISER. LABEL CONTROL VALVES TO INDICATE AREA SERVED.
F3	DO NOT RUN SPRINKLER PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT. ONLY SPRINKLER PIPING SERVING THIS ROOM TO BE INSTALLED OVERHEAD.
F4	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
F5	PROVIDE FLOOR CONTROL VALVE WITH FLOW AND TAMPER SWITCH. SEE DETAILS FP4.01.
F6	6" FIRE PROTECTION STANDPIPE WITH 2-1/2" HOSE CONNECTION.
F7	PROVIDE DRY TYPE SIDEWALL SPRINKLER HEADS CONNECTED INTO WET SPRINKLER SYSTEM FOR REFRIGERATOR 169 AND FREEZER 170.
F8	PROVIDE UPRIGHT SPRINKLER HEADS CONNECTED INTO WET SPRINKLER SYSTEM FOR ALL AREAS OPEN TO STRUCTURE.
F9	PROVIDE CONCEALED PENDANT SPRINKLER HEADS CONNECTED INTO WET SPRINKLER SYSTEM FOR ALL AREAS WITH CEILINGS. PAINT CONCEALMENT CAP TO MATCH SURROUNDING FINISHES.
F10	PROVIDE SUPERVISED ISOLATION VALVE FOR FIRE PROTECTION PIPING BRANCH SERVING IT CLOSET.
F11	PROVIDE SIDEWALL SPRINKLER AT A MAXIMUM DISTANCE OF 2'-0" ABOVE THE FLOOR OF THE ELEVATOR PIT. PROVIDE WITH 1" O.S.&Y. VALVE WITH TAMPER SWITCH.
F12	2-STORY VOLUME TO BE PROTECTED BY SPRINKLER HEADS LOCATED ON 2ND FLOOR.
F13	PROVIDE UPRIGHT PENDANT SPRINKLER HEADS CONNECTED INTO DRY SYSTEM FOR THE PROTECTION OF AREAS BELOW COMBUSTIBLE STRUCTURE.
F14	PROVIDE DRY SPRINKLER HEAD CONNECTED INTO WET SPRINKLER SYSTEM FOR AREAS UNDER COMBUSTIBLE EXTERIOR PROJECTIONS.

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JOB NUMBER

25015

REVISIONS

DATE DESCRIPTION

PROJECT TITLE

HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

First Floor Plan - Fire Protection

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A1 First Floor Plan - Fire Protection

SCALE: 1/16" = 1'-0"

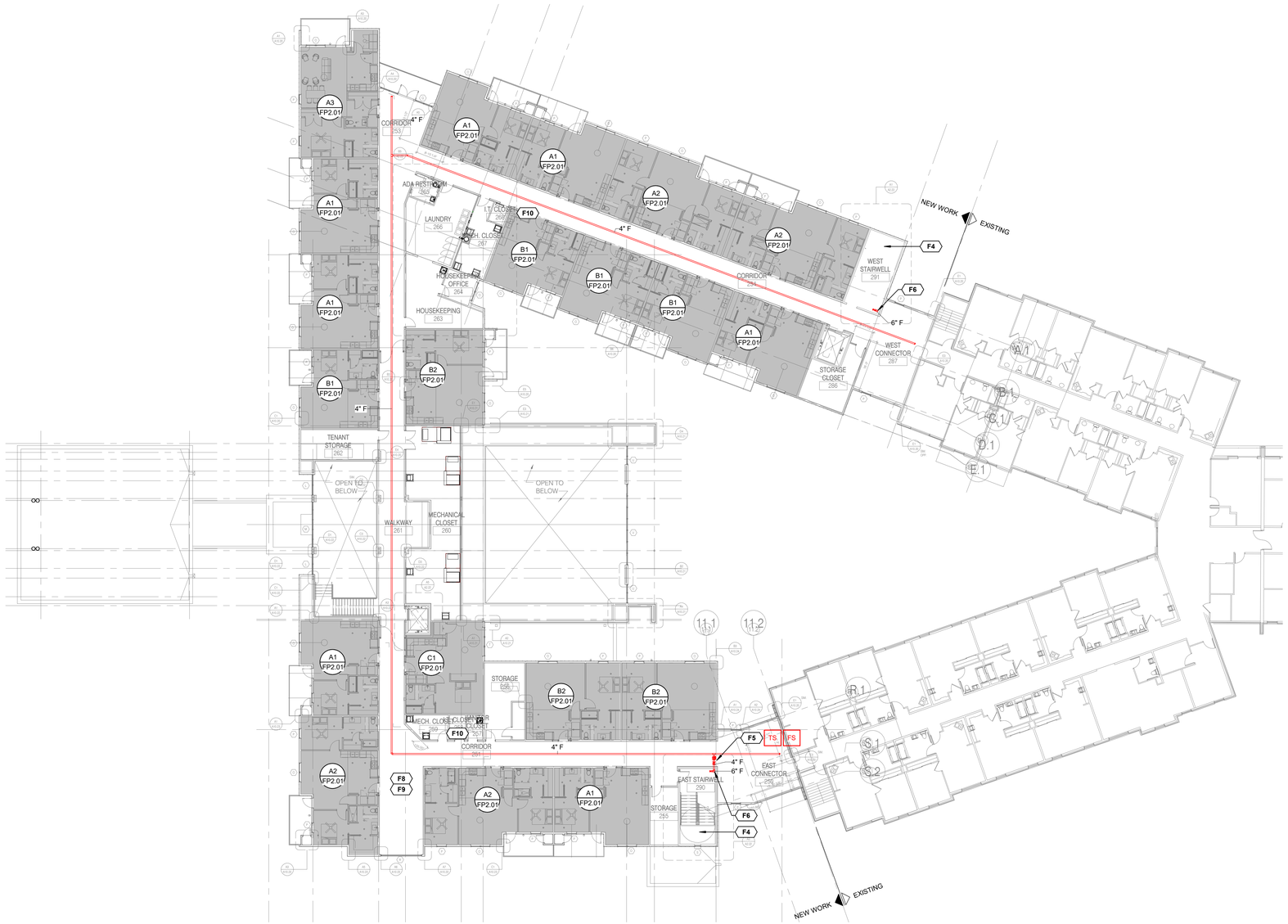
0' 4' 20' 40' 80'

FIRE PROTECTION NOTES

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FIRE PROTECTION KEYNOTES

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F10	PROVIDE SUPERVISED ISOLATION VALVE FOR FIRE PROTECTION PIPING BRANCH SERVING IT CLOSET.



A1 Second Floor Plan - Fire Protection
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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DATE DESCRIPTION

PROJECT TITLE
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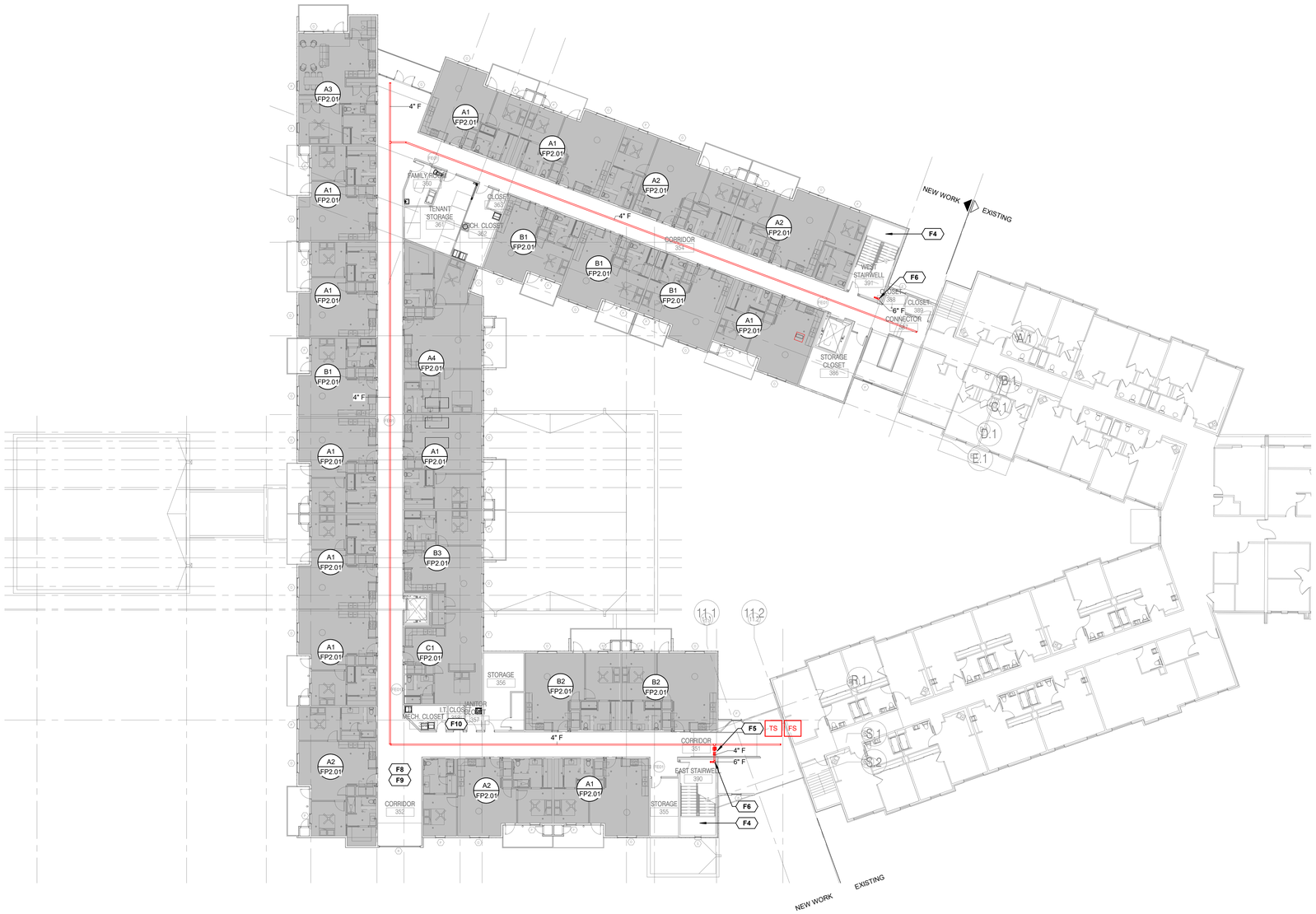
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DRAWING NAME
Second Floor Plan - Fire Protection

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DEMOLITION NOTES

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FIRE PROTECTION KEYNOTES (#)

F4	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
F5	PROVIDE FLOOR CONTROL VALVE WITH FLOW AND TAMPER SWITCH. SEE DETAILS FP4.01.
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A1 Third Floor Plan - Fire Protection
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE

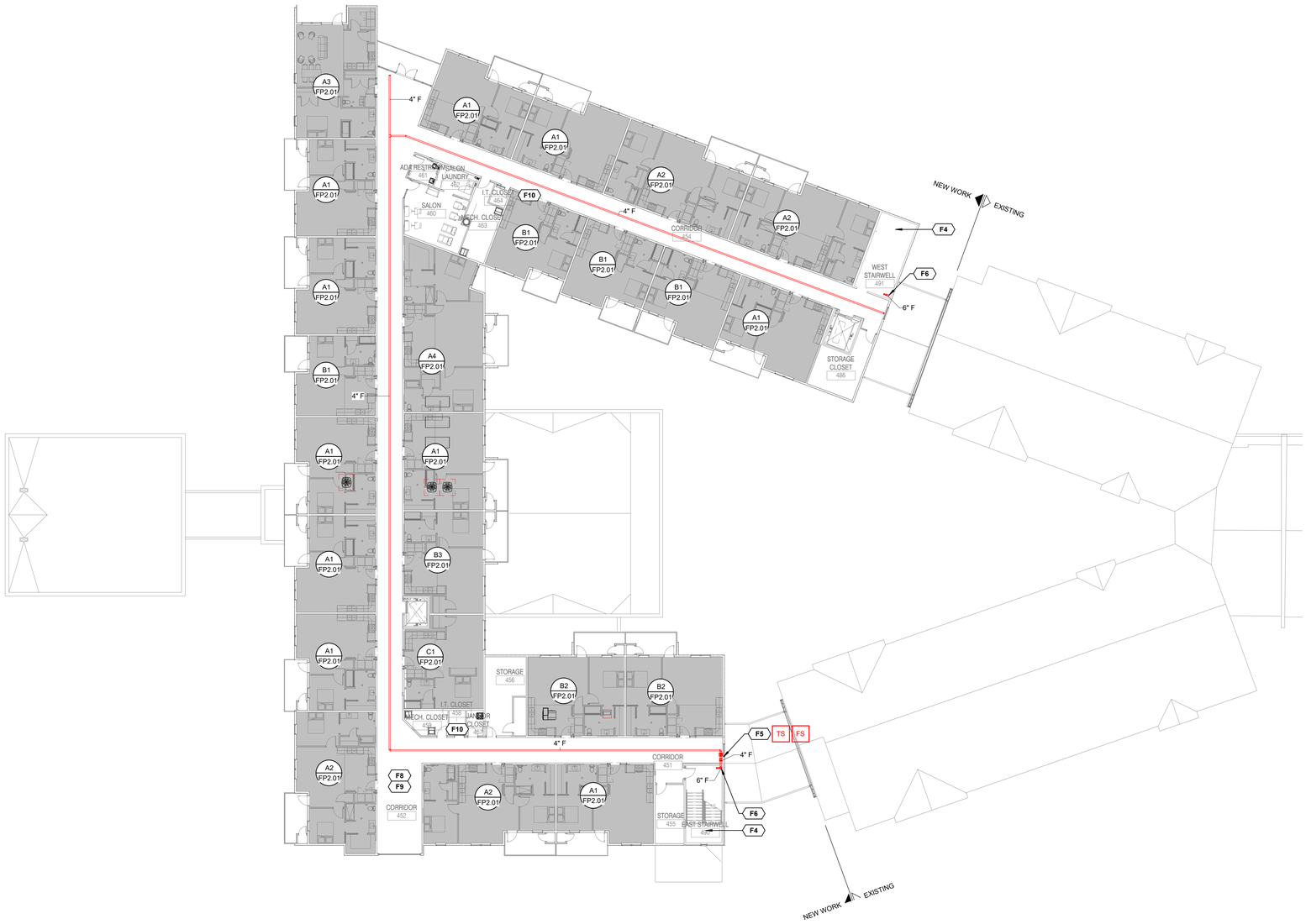
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Searcy, AR 72143

DRAWING NAME
Third Floor Plan - Fire Protection

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DEMOLITION NOTES

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F6	6" FIRE PROTECTION STANDPIPE WITH 2-1/2" HOSE CONNECTION.
F8	PROVIDE UPRIGHT SPRINKLER HEADS CONNECTED INTO WET SPRINKLER SYSTEM FOR ALL AREAS OPEN TO STRUCTURE.
F9	PROVIDE CONCEALED PENDANT SPRINKLER HEADS CONNECTED INTO WET SPRINKLER SYSTEM FOR ALL AREAS WITH CEILINGS. PAINT CONCEALMENT CAP TO MATCH SURROUNDING FINISHES.
F10	PROVIDE SUPERVISED ISOLATION VALVE FOR FIRE PROTECTION PIPING BRANCH SERVING IT CLOSET.

A1 Fourth Floor Plan - Fire Protection
SCALE: 1/16" = 1'-0"

0' 4' 20' 40' 80'

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JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE

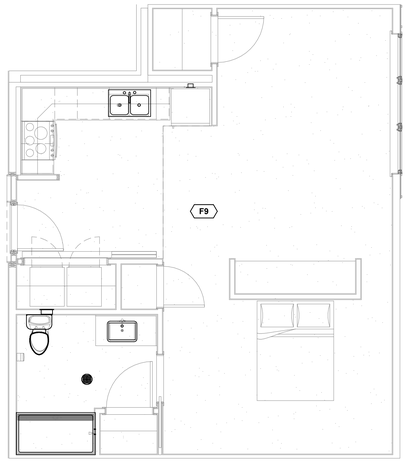
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DRAWING NAME
Fourth Floor Plan - Fire Protection

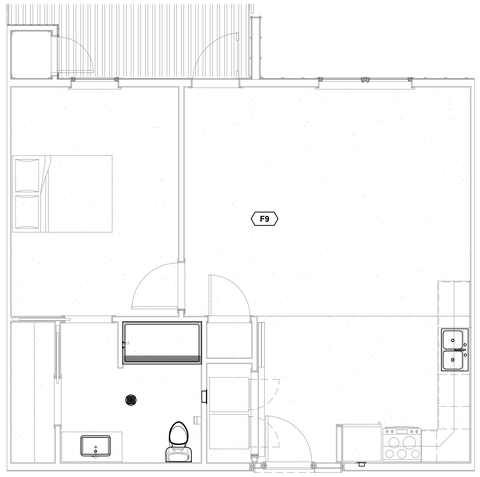
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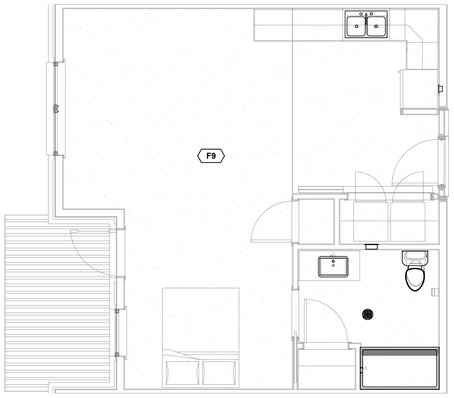
C1 Enlarged Plan - Studio Elevator
SCALE: 1/4" = 1'-0"



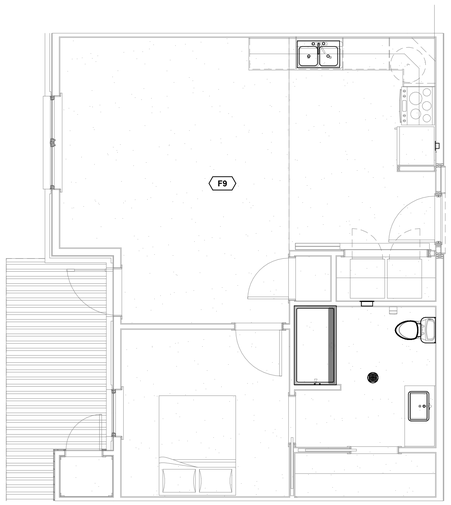
B2 Enlarged Plan - 1-Bd Outer Balcony
SCALE: 1/4" = 1'-0"



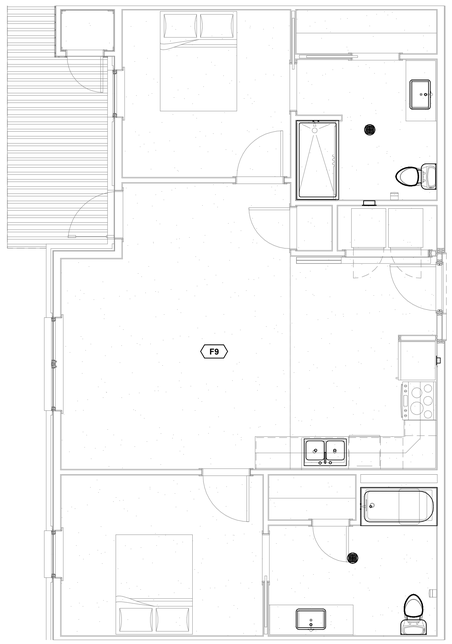
B3 Enlarged Plan - 1-Bd Elevator
SCALE: 1/4" = 1'-0"



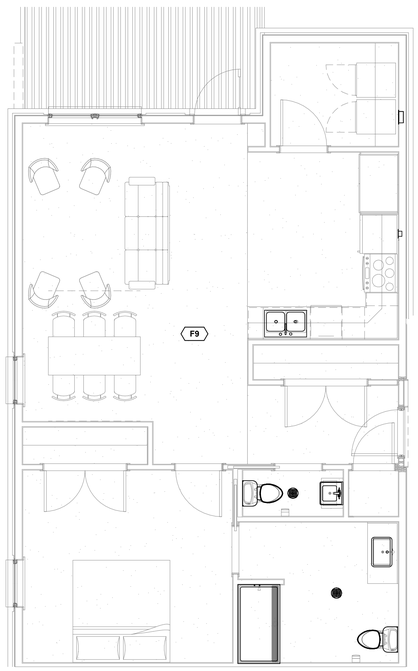
B1 Enlarged Plan - Studio Unit
SCALE: 1/4" = 1'-0"



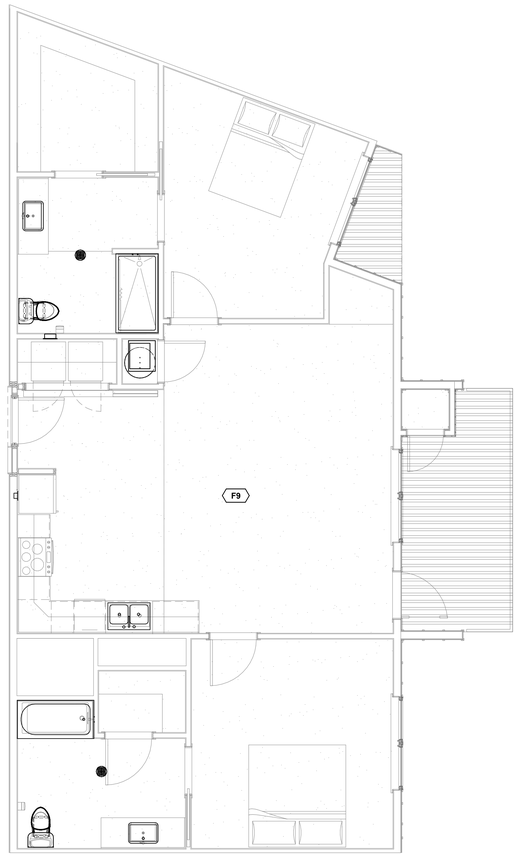
A1 Enlarged Plan - 1-Bd Unit
SCALE: 1/4" = 1'-0"



A2 Enlarged Plan - 2-Bd Unit
SCALE: 1/4" = 1'-0"



A3 Enlarged Plan - 1-Bd Suite
SCALE: 1/4" = 1'-0"



A4 Enlarged Plan - 2-Bd Suite
SCALE: 1/4" = 1'-0"

0' 1' 5' 10' 20'

FIRE PROTECTION NOTES

1	THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT INTEND TO SHOW ALL FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. IT IS THE RESPONSABILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS AND CONFIRM SPACE ALLOCATIONS.
2	SYSTEM SHALL PROVIDE COMPLETE COVERAGE / DENSITY FOR ALL AREAS IN COMPLIANCE WITH NFPA 13, LOCAL FIRE OFFICIAL'S REQUIREMENTS, AND INSURANCE UNDERWRITER'S REQUIREMENTS.

FIRE PROTECTION KEYNOTES (#)

F9	PROVIDE CONCEALED PENDANT SPRINKLER HEADS CONNECTED INTO WET SPRINKLER SYSTEM FOR ALL AREAS WITH CEILINGS. PAINT CONCEALMENT CAP TO MATCH SURROUNDING FINISHES.

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JOB NUMBER
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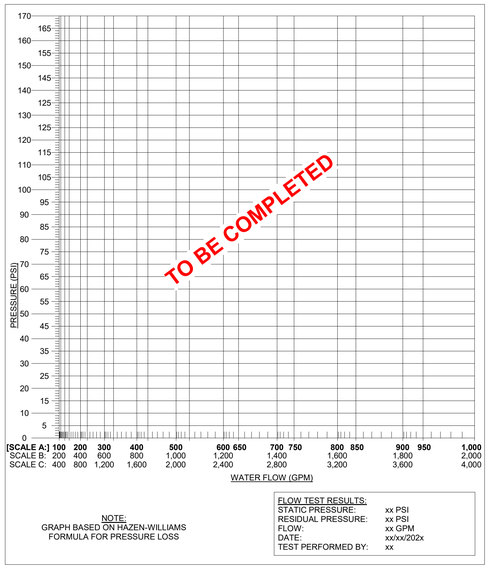
Enlarged Unit Plans - Fire Protection

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NOTE:
GRAPH BASED ON HAZEN-WILLIAMS
FORMULA FOR PRESSURE LOSS

FLOW TEST RESULTS:

STATIC PRESSURE:	xx PSI
RESIDUAL PRESSURE:	xx PSI
FLOW:	xx GPM
DATE:	xx/xx/202x
TEST PERFORMED BY:	xx

3 WATER SUPPLY / SYSTEM DEMAND

SCALE: N.T.S.

STANDPIPE HYDRAULIC CALCULATIONS:

1. SEE SITE PLAN FOR FLOW AND STATIC/RESIDUAL HYDRANTS.
2. STATIC PRESSURE = xx PSI
3. RESIDUAL PRESSURE = xx PSI WITH xxxx GPM FLOWING
4. FLOW HYDRANT ELEVATION = 0'-0".
5. STATIC/RESIDUAL HYDRANT ELEVATION = 0'-0".
6. GROUND FLOOR ELEVATION = 0'-0".
7. MAX. HEIGHT OF SYSTEM ABOVE GRADE = x0'-0".
8. PRESSURE LOSS TO HEIGHT = x0.0' x .4331 = xx PSI.
9. DELIVERY PRESSURE REQUIRED AT MOST REMOTE OUTLET = 100.0 PSI.
10. PREMIMINARY HYDRAULIC CALCULATIONS
11. HOSE ALLOWANCE FOR MOST REMOTE STANDPIPE HIGHEST OUTLET = 250 GPM
    HOSE ALLOWANCE FOR MOST REMOTE STANDPIPE SECOND HIGHEST OUTLET = 250 GPM
    HOSE ALLOWANCE FOR SECOND STANDPIPE OUTLET = 250 GPM
    TOTAL FLOW = 750 GPM

    MARGIN OF SAFETY ---------- = 5.00 PSI
    PRESSURE REQUIRED AT FURTHEST OUTLET ---------- = 100.0 PSI

    SERVICE MAIN
    750 GPM - TOTAL EQUIV. LENGTH OF 8" PVC SERVICE MAIN = x'' ---------- LOSS PER 100' OF PIPE = x.xx' x .4331 = x.xx PSI LOSS
    ELEVATION FROM CITY MAIN TO HIGHEST OUTLET ---------- ---------- = x0.0' x .4331 = xx.x PSI LOSS
    6" BACKFLOW PREVENTER = 12.0 PSI LOSS
    RISER CHECK VALVE = 0.50 PSI LOSS
    FLOOR CONTROL VALVE ASSEMBLY = 1.00 PSI LOSS
    GATE VAVES (2) = 0.30 PSI LOSS

    INSIDE PIPING
    250.0 GPM - TOTAL EQUIV. LENGTH OF 6" STEEL PIPE = xx' @ 0.45' LOSS PER 100' OF PIPE = x.xx' x .4331 = x.xx PSI LOSS
    500.0 GPM - TOTAL EQUIV. LENGTH OF 6" STEEL PIPE = xx' @ 1.65' LOSS PER 100' OF PIPE = x.xx' x .4331 = x.xx PSI LOSS
    750.0 GPM - TOTAL EQUIV. LENGTH OF 6" STEEL PIPE = xxx' @ 3.56' LOSS PER 100' OF PIPE = xx.x' x .4331 = x.xx PSI LOSS

    TOTAL LOSS = xx.x PSI LOSS
    PRESSURE REQUIRED AT FURTHEST OUTLET = 100.00 PSI
    TOTAL PRESSURE REQUIRED AT FIRE FLOW = xxx.x PSI

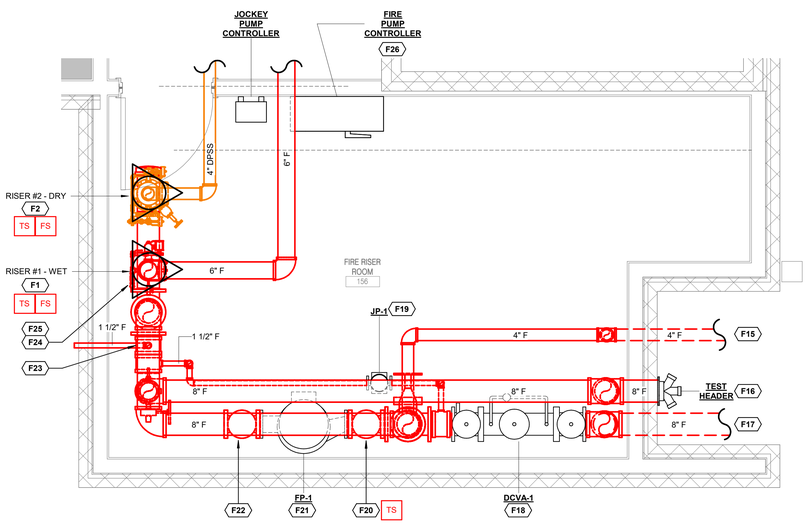
    RESIDUAL PRESSURE AT FIRE FLOW = xx PSI

    REQUIRED FIRE PUMP = xx.x PSI

TO BE COMPLETED

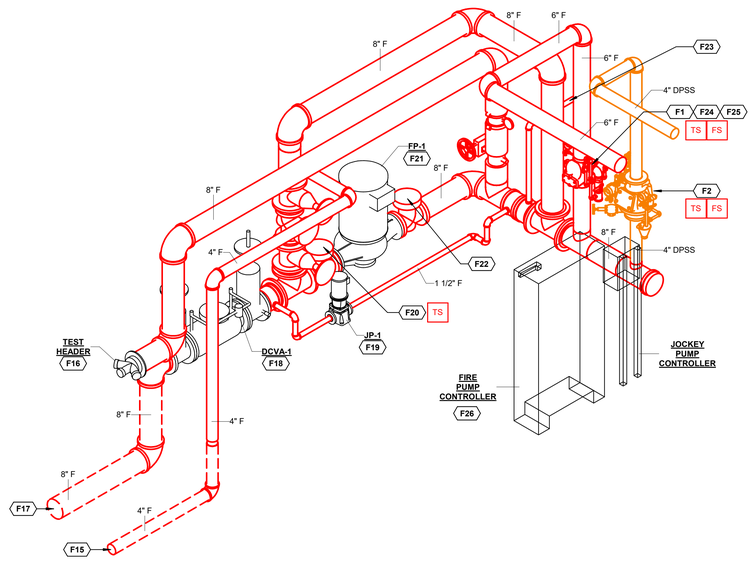
FIRE PROTECTION KEYNOTES

#	
F1	PROVIDE DEDICATED CONTROL VALVE WITH NEW FLOW AND TAMPER SWITCHES FOR THE WET SPRINKLER RISER. LABEL CONTROL VALVES TO INDICATE AREA SERVED.
F2	PROVIDE DEDICATED CONTROL VALVE WITH NEW FLOW AND TAMPER SWITCHES FOR THE DRY SPRINKLER RISER. LABEL CONTROL VALVES TO INDICATE AREA SERVED.
F15	4" FIRE MAIN TO YARD MOUNTED FIRE DEPARTMENT CONNECTION. SEE SITE PLAN FP1.01 FOR CONTINUATION.
F16	FIRE PUMP TEST HEADER. TEST HEADER SHALL HAVE (1) CONNECTION PER 250 GPM.
F17	6" FIRE MAIN ENTRANCE INTO BUILDING BELOW FLOOR SLAB. SEE SITE PLAN FP1.01 FOR CONTINUATION.
F18	DOUBLE CHECK VALVE ASSEMBLY. SEE DCVA SCHEDULE FP0.01.
F19	JOCKEY PUMP. SEE JOCKEY PUMP SCHEDULE FP0.01.
F20	OS&Y GATE VALVE WITH TAMPER SWITCH.
F21	FIRE PUMP. PROVIDE SUPPORTS BENEATH FIRE PUMP OR MOUNT ON CONCRETE BASE. SEE FIRE PUMP SCHEDULE FP0.01.
F22	CHECK VALVE WITH AUTO BALL DRIP.
F23	RELIEF VALVE.
F24	ALARM CHECK VALVE AND TRIM.
F25	ROUTE DRAIN TO SPILL TO EXTERIOR AT 24" ABOVE FINISH GRADE.
F26	PROVIDE ELECTRIC ALARM BELL AND COORDINATE WITH ELECTRICAL CONTRACTOR.



1 Enlarged Riser Room Plan - Fire Protection

SCALE: 1/2" = 1'-0"



2 Riser Diagram - Fire Riser Room

SCALE:

STANDARD OF CARE FOR FIRE PROTECTION SYSTEM DESIGN:

BUILDING INFORMATION:

A. NAME OF OWNER:
xxx

B. LOCATION (INCLUDING B. STREET ADDRESS):
xxx

C. POINT OF COMPASS:
SHOWN ON ALL FIRE PROTECTION FLOOR PLANS

D. PLAN OF EACH FLOOR:
REFER TO SHEET FPx.x

E. DESCRIPTION OF OCCUPANCY AND COMMODITY CLASSIFICATION AS DEFINED IN CHAPTER 5 OF NFPA 13, 2010 EDITION:
LIGHT HAZARD OCCUPANCY

F. TYPE OF CONSTRUCTION AND BUILDING HEIGHT IN FEET OF NFPA 13:
NEW CONSTRUCTION OCCUPANCY TYPE: (IBC - SECTION 508.3)
I. R-1, RESIDENTIAL, HOTEL (IBC 310.3)
II. B, BUSINESS, MEETING, OFFICES, KITCHEN (IBC 304)
III. A-3, ASSEMBLY - HOTEL LOBBY (IBC 303.4)
IV. A-2, ASSEMBLY - RESTAURANT WITH BAR (IBC 303.3)
60'-0"

A. FULL HEIGHT BUILDING CROSS SECTION:
REFER TO ARCHITECTURAL PLANS

B. LOCATIONS OF FIRE WALLS, LARGE UN-PROTECTED FLOOR OPENINGS, UN-PROTECTED WINDOW OPENINGS, FIRE DOORS:
REFER TO SHEET FPx.x

C. DISTANCES TO AND CONSTRUCTION AND OCCUPANCY OF ADJACENT OR NEARBY EXPOSED BUILDINGS OR STRUCTURES WHERE ADDITIONAL PROTECTION MAY BE REQUIRED:
xxx

D. TYPE, TEMPERATURE RATING AND LOCATIONS OF ALL SPRINKLER HEADS IN FINISHED AREAS:
REFER TO FLOOR PLANS AND FIRE PROTECTION LEGEND ON FP0.1

E. SIZE AND LOCATION OF RISERS AND STANDPIPES WITH DESCRIPTION AND ARRANGEMENT OF VALVING AND ACCESSORIES INCLUDING THE LOCATION OF ANY AND ALL HOSE VALVES, ALARMS AND SIGNAL DEVICES.
REFER TO SECTIONS ON SHEET FP3.1 FOR RISER INFORMATION AND PLANS FOR LOCATION
AREA PROTECTED BY RISER: WET SYSTEM, 13,738 SQ. FT. AT FIRST FLOOR, 15,892 SQ. FT. AT UPPER FLOOR.

F. SIZE AND LOCATION OF ALL MAIN AND BRANCH LINES AS REQUIRED TO PROVIDE PRELIMINARY HYDRAULIC CALCULATIONS:
SIZES AND LOCATIONS OF LINES SHOWN ON FLOOR PLANS AND PRELIMINARY HYDRAULIC CALCULATION SHOWN ON THIS SHEET.

G. IF THE PROJECT IS IN A SEISMIC AREA INFORMATION ATTESTING TO THIS FACT SHALL BE INCLUDED.
SEISMIC IS NOT REQUIRED FOR THIS PROJECT.

H. THE LOCATION AND THE LOCATION AND SIZE OF THE HYDRAULICALLY REMOTE AREA OF COVERAGE.
HYDRAULICALLY REMOTE AREA OF COVERAGE IS SHOWN ON THIS SHEET.

I. FIRE PUMP DESIGN, SPECIFICATIONS AND ROOM LAYOUT (IF REQ'D)
REFER TO SHEETS FPx.x.

J. STANDPIPE DESIGN (IF REQUIRED) MUST BE COMPLETELY DELINEATED ON DRAWING.
REFER TO SHEET FPx.x.

K. IF EXTENSIONS ARE MADE TO EXISTING SYSTEM, THE SAME INFORMATION SHALL BE PROVIDED FOR THE EXISTING AS WELL AS FOR THE EXTENSION, INCLUDING POINT OF CONNECTION TO EXISTING MAIN.
NOT APPLICABLE

L. THE DESIGN DRAWINGS SHALL FULLY IDENTIFY THE INTENT OF THE TYPE OF SYSTEM (DRY, WET, PRE-ACTION, ETC.):
WET SPRINKLER SYSTEMS: ABOVE GROUND PIPING AND FITTINGS: SPRINKLER MAINS SHALL BE BLAZEMASTER CPVC. STANDPIPES SHALL BE SCHEDULE 10 BLACK STEEL PIPE & THREADED LINES SHALL BE SCHEDULE 40 BLACK STEEL. ALL FITTINGS SHALL BE UL APPROVED.

M. THE ENGINEER SHALL ESTABLISH A PRACTICAL AND FLEXIBLE MARGIN OF SAFETY BETWEEN AVAILABLE WATER
SEE HYDRAULIC CALCATIONS ON THIS SHEET FOR SAFETY FACTOR.

SITE PLAN INFORMATION
A. SIZE AND LOCATION OF ALL WATER SUPPLIES:
REFER TO SHEET FPx.x

B. SIZE AND LOCATION OF ALL PIPING, INDICATING, WHERE POSSIBILE, THE CLASS AND TYPE OF NEW PIPE TO BE INSTALLED AND THE DEPTH TO WHICH IT IS TO BE BURIED:
REFER TO SHEETS FPx.x

C. INDICATE SIZE, TYPE AND LOCATION OF VALVES. INDICATE IF LOCATED IN PIT OR IF OPERATION IS BY POST INDICATOR OR KEY WRENCH THROUGH A CURB BOX.
REFER TO SHEET FPx.x.

D. INDICATE THE SIZE, TYPE AND LOCATION OF METERS AND BACKFLOW DEVICES.
REFER TO SHEET FPx.x.

E. SIZE AND LOCATION OF HYDRANTS, SHOWING SIZE AND NUMBER OF OUTLETS AND IF OUTLETS ARE TO BE EQUIPPED WITH INDEPENDENT GATE VALVES. INDICATE IF HOSE HOUSES AND EQUIPMENT ARE TO BE PROVIDED AND BY WHOM.
REFER TO SHEET FPx.x.

F. SPRINKLER AND STANDPIPE RISERS AND MONITOR NOZZLES TO BE SUPPLIED BY THE SYSTEM.
NOT APPLICABLE.

G. LOCATION OF FIRE DEPARTMENT CONNECTION
REFER TO SHEET FPx.x.

H. WATER SUPPLY INFORMATION:
   a. INFORMATION REGARDING WHETHER THE MAIN IS CIRCULATING OR DEAD END
   MAIN IS xxx.
   b. PRESSURE UNDER FLOWING AND STATIC CONDITIONS. IF AVAILABLE, INFORMATION ON ORIFICE SIZE AND COEFFICIENT OF ORIFICE.
   FLOW TEST INFORMATION SHOWN ON THIS SHEET.
   c. ORIFICE USED IN THE TEST, AS WELL AS THE PITOT TEST PRESSURE.
   2-1/2" ORIFICE USED FOR FLOW HYDRANT.
   d. APPLICABLE ELEVATIONS OF SLAB, FLOORS, CEILINGS, STREET MAIN CONNECTION, ETC.
   ELEVATIONS LISTED IN THE HYDRAULIC CALCULATIONS ON THIS SHEET.
   e. INFORMATION REGARDING WHO CONDUCTED THE FLOW TEST, WHEN AND WHERE THE TEST WAS CONDUCTED
   FLOW TEST INFORMATION SHOWN ON THIS SHEET.

HYDRAULIC CALCULATIONS
A. ENGINEER SHALL PREPARE AND SUBMIT PRELIMINARY HYDRAULIC CALCULATIONS PROVING AVAILABILITY OF ADEQUATE WATER. THIS SHALL BE FOR THE HYDRAULICALLY MOST REMOTE AREA, OR IF PRESENT, THE STANDPIPE DEMAND CALCULATIONS SHALL INCLUDE THE INFORMATION REQUIRED BY NFPA 13 .
REFER TO THIS SHEET FOR HYDRAULIC CALCULATIONS.
HYDRAULIC CALCULATIONS ARE SHOWN ON THIS SHEET.

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HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME

Hydraulic Calculations - Fire Protection

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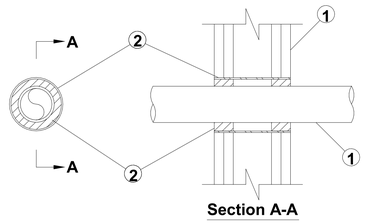
DRAWING NUMBER

FP3.01

System No. W-L-2128
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr

WL 2128

Classified by Underwriters Laboratories, Inc to UL 1479



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 3-1/2 in. (89 mm).
2. Metallic Sleeve Optional — Nom 3-1/2 in. (89 mm) (or smaller) cylindrical sleeve fabricated from min 0.016 in. thick (28 gauge) galv sheet steel and having a min 1-1/4 in. (32 mm) lap salong longitudinal seam. Length of sleeve to be installed flush with wall surfaces.
3. Through Penetrants — One nonmetallic pipe installed within the firestop system. Pipe may be installed at an angle not greater than 45 degrees from perpendicular. Pipe to be rigidly supported on both sides of wall assembly. The space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 11/16 in. (17.5 mm). The following types and sizes of nonmetallic pipes may be used:
   A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
4. Fill, Void or Cavity Materials* — Sealant — For 1 hr F Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 2 hr F Rating, min 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

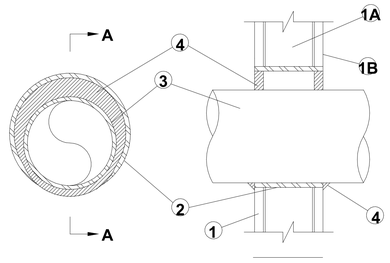
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System No. W-L-1164

WL 1164

Classified by Underwriters Laboratories, Inc to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1 and 4)	F Ratings - 1 and 2 Hr (See Item 1 and 4)
T Rating - 0 Hr	T Ratings - 0 Hr
	FH Ratings - 1 and 2 Hr (See Item 1 and 4)
	FTH Ratings - 0 Hr



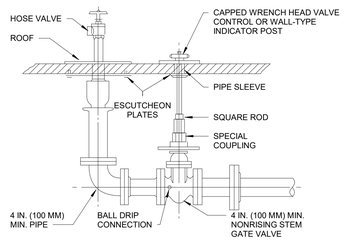
1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening in steel stud walls is 32 in. (813 mm). Max diam of openings in wood stud walls is 14-1/2 in. (368 mm).

   The hourly F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Sleeve — Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve friction fit in nom 32 in. (813 mm) diam circular opening cut through gypsum board layers. Length of steel sleeve to be equal to thickness of wall.

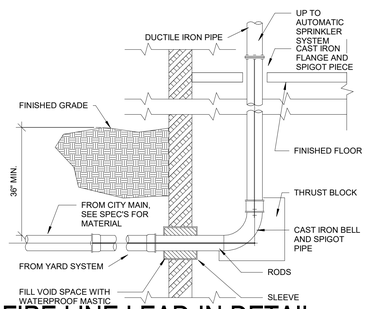
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc January 22, 2015

1 UL DETAIL
SCALE: N.T.S.



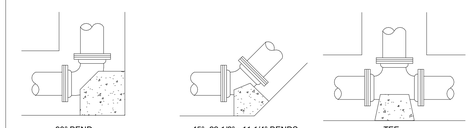
11 ROOFTOP HOSE CONNECTION DETAIL
SCALE: N.T.S.



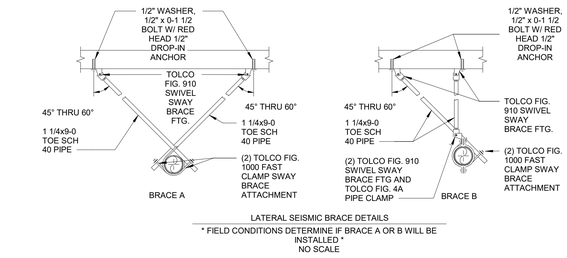
2 FIRE LINE LEAD-IN DETAIL
SCALE: N.T.S.

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS

PIPE SIZE	90° BEND SQ. FT.	45°- 22 1/2° - 11 1/4° BEND SQ. FT.	TEE/HYD/CAP/PLUG SQ. FT.
4"	2	2	2
6"	5	3	4
8"	8	5	6
10"	13	7	9
12"	18	10	13

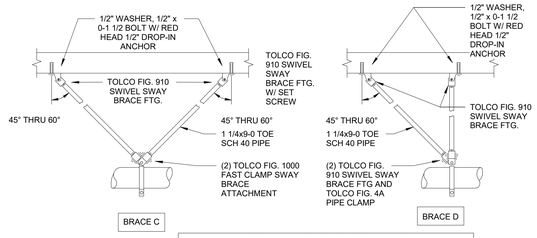


3 THRUST BLOCK DETAIL
SCALE: N.T.S.



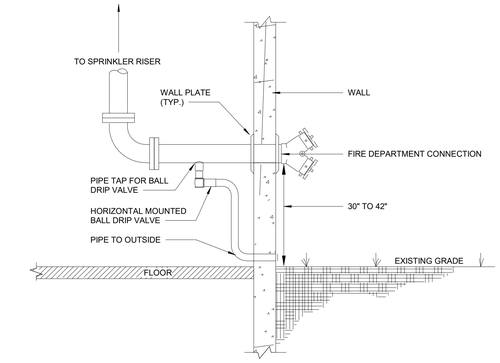
LATERAL SEISMIC BRACE DETAILS
* FIELD CONDITIONS DETERMINE IF BRACE A OR B WILL BE INSTALLED *
NO SCALE

4 LATERAL SEISMIC BRACE DETAILS
SCALE: N.T.S.

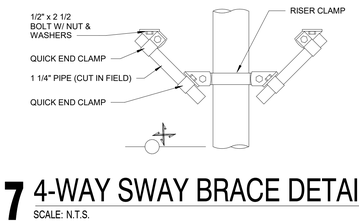


LONGITUDINAL SEISMIC BRACE DETAILS
* FIELD CONDITIONS DETERMINE IF BRACE C OR D WILL BE INSTALLED*

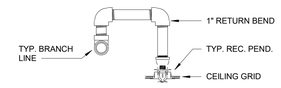
5 LONGITUDINAL SEISMIC BRACE DETAILS
SCALE: N.T.S.



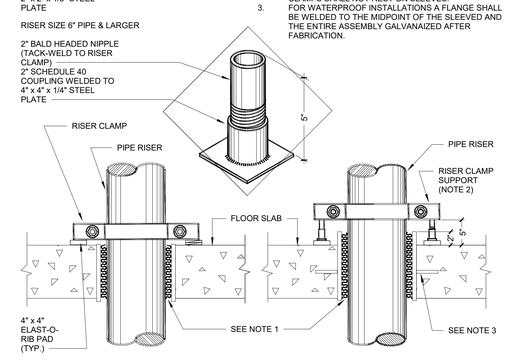
6 WALL MOUNTED FIRE DEPARTMENT CONNECTION
SCALE: N.T.S.



7 4-WAY SWAY BRACE DETAIL
SCALE: N.T.S.

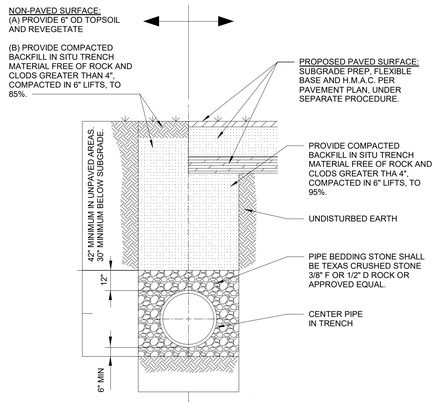


8 RETURN BEND DETAIL
SCALE: N.T.S.



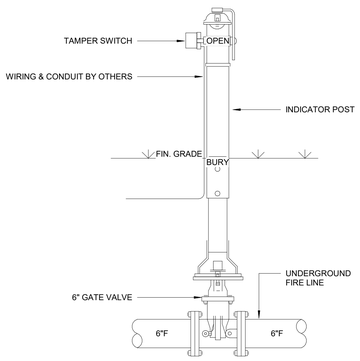
NOTES:
1. ALL FLOOR PENETRATIONS SHALL BE SEALED AND FIREPROOFED.
2. IN PUMP ROOMS, MECHANICAL ROOMS, PENTHOUSES, AND OTHER LOCATIONS WHERE WATER WOULD PERIODICALLY BE ON THE FLOOR. SLEEVES SHALL EXTEND 2" ABOVE THE FLOOR RISER CLAMPS SHALL NOT REST ON SLEEVES.
3. FOR WATERPROOF INSTALLATIONS A FLANGE SHALL BE WELDED TO THE MIDPOINT OF THE SLEEVED AND THE ENTIRE ASSEMBLY GALVANAIZED AFTER FABRICATION.

9 RISER SUPPORT DETAIL
SCALE: N.T.S.



12 TRENCH DETAIL
SCALE: N.T.S.

10 FLOW CONTROL VALVE DETAIL
SCALE: N.T.S.



13 PIV DETAIL
SCALE: N.T.S.

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9720 Village Circle
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www.CSAengineering.com

JOB NUMBER
25015

REVISIONS
DATE DESCRIPTION

PROJECT TITLE
HARDING PLACE

801 Benton Ave,
Searcy, AR 72143

DRAWING NAME
Details - Fire Protection

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13 FEB. 2026
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Design Development
DRAWING NUMBER
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