RCC Welding Remodel

1114 S. 5th St. Rogers, AR 72756

Issue Date: 04/15/2025

Revision Date: 04/23/2025

Project No.: 2503

MECHANICAL ENGINEER:

HSA ENGINEERING 7405 ELLIS ST FORT SMITH, AR 72916

STRUCTURAL ENGINEER:

TATUM-SMITH-WELCHER ENGINEERS
3100 S MARKET ST
SUITE 202
ROGERS, AR 72758

Hight Jackson ASSOCIATES

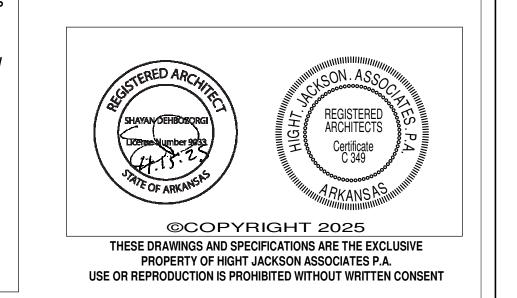
5201 W Village Parkway, Suite 300 Rogers, Arkansas 72758 (479) 464-4965 www.hjarch.com

DISCIPLINES, HAS BEEN MADE ON THIS
PROJECT'S DOCUMENTS, AND CORRECTIONS
RELATED TO THIS CHECK HAVE BEEN MADE.
THE UNDERSIGNED PRINCIPAL/OWNER
STATES THAT THESE PLANS AND
SPECIFICATIONS AS SUBMITTED FOR REVIEW
ARE, TO THE BEST OF HIS OR HER
KNOWLEDGE AND ABILITY, COMPLETE AND
READY FOR REVIEW

SHAYAN/DEHBOEORGI

LICENSE-Number 3933

A QUALITY CONTROL CHECK, INCLUDING THE



A2.1 FLOOR PLAN & DEMOLITION PLAN

A2.2 REFLECTED CEILING PLAN & INTERIOR ELEVATIONS

PLUMBING

MP1.1 PLUMBING NOTES & LEGEND

P2.1 WELDING LAB PLUMBING PLAN

MECHANICAL

M1.1 HVAC NOTES, LEGEND & DIAGRAMS
M2.0 FIRST FLOOR MECHANICAL DEMO PLAN

M2.1 FIRST FLOOR HVAC PLAN

FI FCTRICA

E1.1 ELECTRICAL NOTES, LEGEND & DETAILS

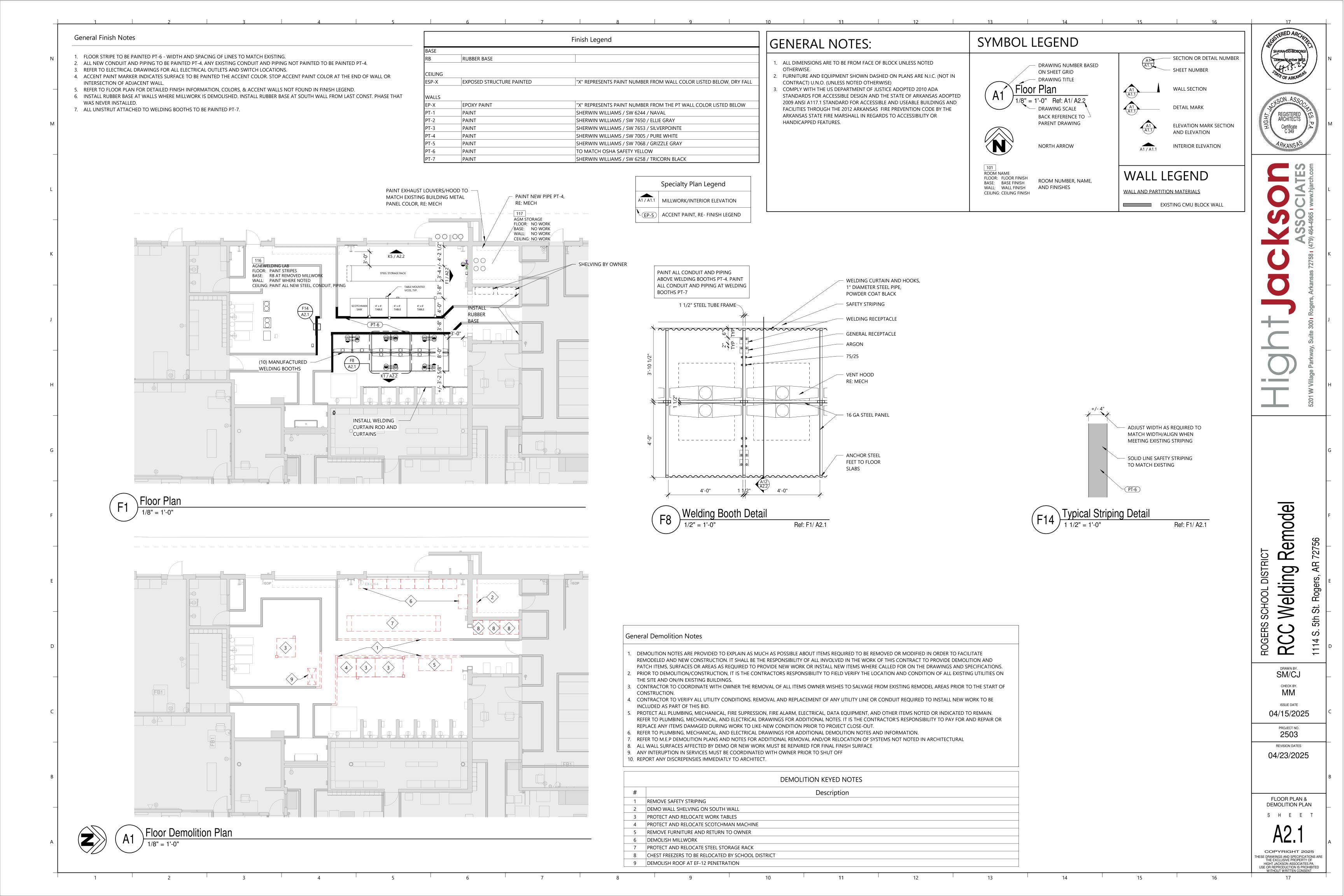
E2.0 ELECTRICAL DEMO

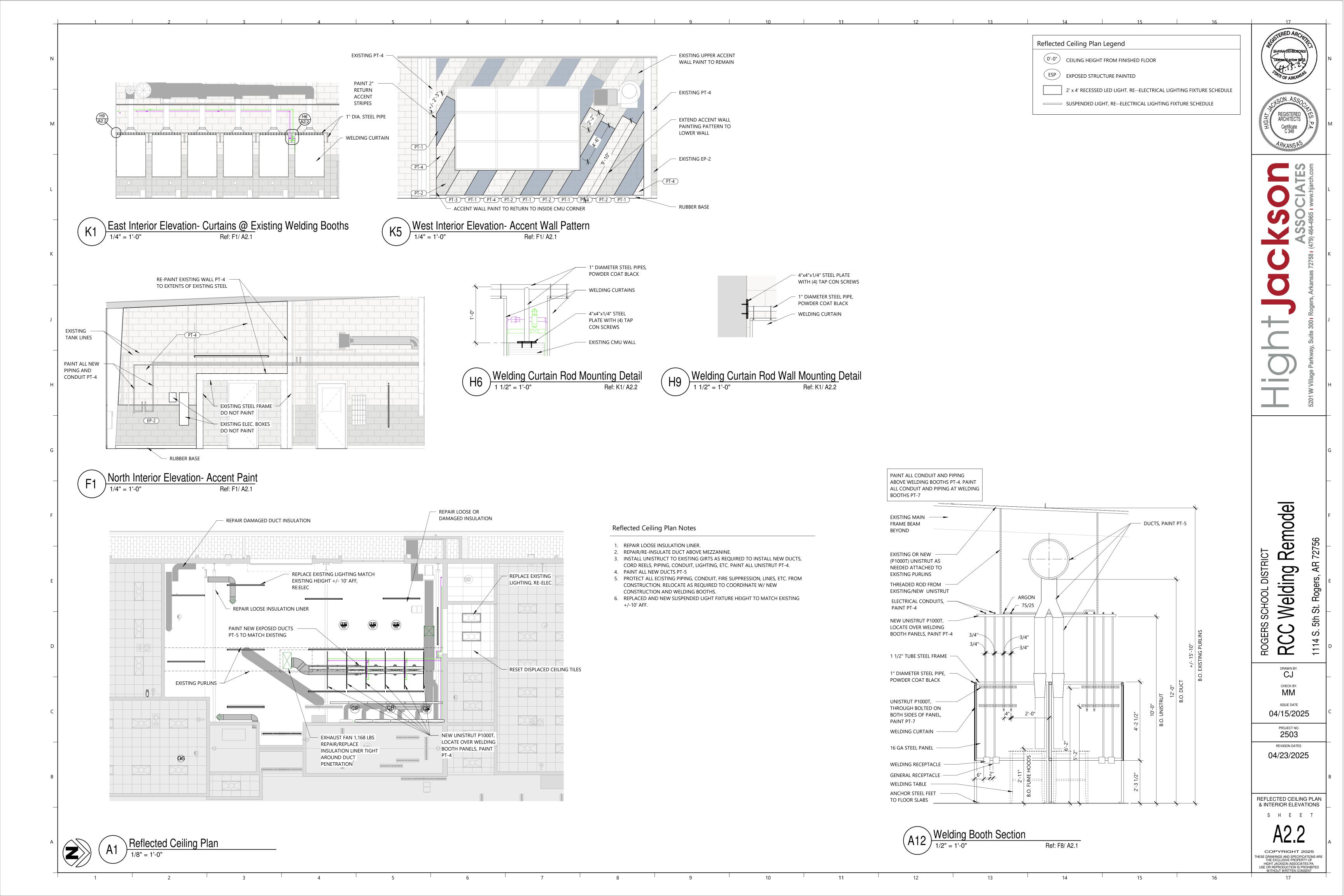
E2.1 FIRST FLOOR LIGHTING PLAN

E2.2 FIRST FLOOR POWER PLAN

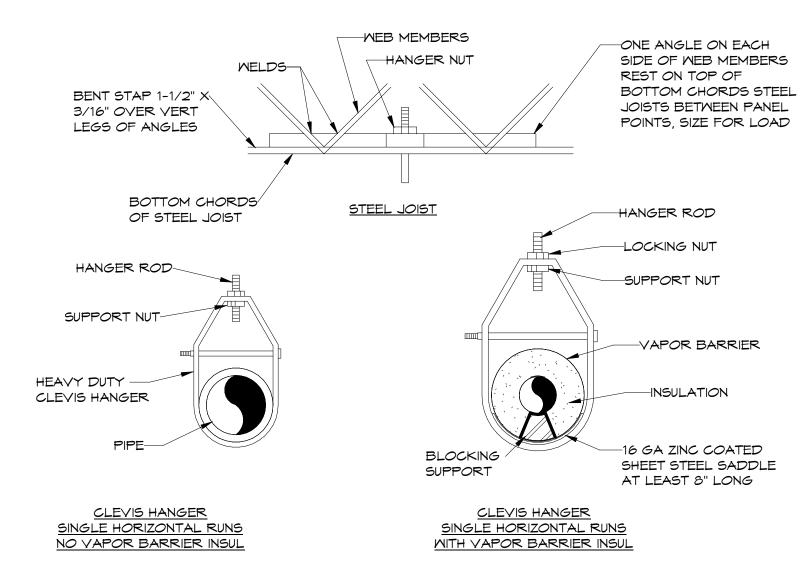
ON DATE: 04/23/2025

SSUE DATE: 04/15/2025





HANGER ROD SCHEDULE ROD SIZE PIPE SIZE ROD SIZE UP TO 2" 1/4" DIA 8" THRU 12" 1/2" DIA 2 1/2" UP TO 6 3/8" DIA



TYPICAL PIPE HANGER DETAIL CLEVIS HANGER

-BOTTOM OF ROOF FACE OF EXISTING WALL. EX. DUCT. FIELD VERIFY AS REQUIRED. ROUTE NEW ARGON AND 75/25 GAS SUPPLY PIPING AT APPROPRIATE ELEVATION (+/- 10'-8" A.F.F.) AS REQUIRED TO ROUTE BEHIND EXISTING EXHAUST DUCT, AND ABOVE EXISTING PIPING LOCATED ON MALL. ROUTE PIPING IN STACKED FORMATION; OFFSET SHOWN FOR CLARITY. FIELD VERIFY AS ALL THREAD SPLIT RING -HANGER SUPPORTING PIPING 3/4" ARGON GAS SUPPLY PIPING. BEYOND. RE:1/P2.1 FOR CONTINUATION. TEE TO SUPPLY WELDING BOOTH ON OPPOSITE SIDE. 3/4" 75/25 GAS SUPPLY PIPING. TYPICAL EACH SUPPLY LINE. RE:1/P2.1 FOR CONTINUATION. 2'-0" EXISTING PIPING. FIELD EXISTING PIPING. FIELD VERIFY AS-VERIFY AS REQUIRED. REQUIRED. 1/2" ISOLATION VALVE FOR 1/2" SUPPLY PROVIDE ALL THREAD SPLIT RING HANGERS AT EXISTING LINE. TYPICAL EACH SUPPLY LINE. SUPPORT LOCATIONS ON EXISTING OXYGEN/ACETYLENE PIPING AS REQUIRED TO SUPPORT NEW ARGON AND 75/25 1-5/8" UNISTRUT BOLTED TO EXISTING PIPING ROUTED VERTICALLY DOWN WALL. NEW PIPING WALL. TYPICAL AT EACH WELDING BOOTH. SHALL TURN DOWN IN LINE WITH EXISTING PIPING. TYPICAL. QUICK-CONNECT COUPLING FOR FLEXIBLE GAS LINE. COORDINATE EXACT CONNECTOR TYPE REQUIRED WITH OWNER PRIOR TO INSTALLATION. TYPICAL OF TWO (2) CONNECTORS AT EACH MELDING BOOTH LOCATION. MOUNT AT FINISHED FLOOR

GENERAL PLUMBING NOTES

- 1. ALL PLUMBING MATERIALS AND INSTALLATION SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE, LATEST EDITION.
- 2. ALL GAS PIPING SYSTEMS WITHIN A BUILDING AND OTHER ABOVE GROUND GAS PIPING SHALL
- BE ELECTRICALLY CONTINUOUS AND BONDED TO A GROUNDED ELECTRODE AS DEFINED IN 3. WHERE FIRE RATED PARTITIONS OR FLOORS OCCUR, ALL FLOOR TO FLOOR AND ROOM TO ROOM PENETRATIONS SHALL BE PROPERLY FIRE SEALED WITH U.L. LISTED AND CLASSIFIED
- FIRE CAULK OR FIRE SEALED BY USING AN APPROVED FIRE SEAL SLEEVE METHOD WHICH MEETS U.L. REQUIREMENTS. ALL OTHER PENETRATIONS OF RATED CHASES OR WALLS SHALL BE PROPERLY FIRE SEALED AND WHERE EXTENDING THROUGH SUCH RATED SURFACE SHALL BE A RATED FIRE STOP PENETRATION. ALL FIRE STOPPING, FIRE CAULKING AND FIRE SLEEVING OR OTHER FIRE SEALING SHALL BE ACCEPTABLE BY THE LOCAL AUTHORITIES AND SHALL BEAR THE U.L. SEAL.
- 4. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS STATE MECHANICAL CODE.
- 5. CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS OF ALL PLUMBING AND PIPING SYSTEMS UPON COMPLETION OF THE PROJECT.
- 6. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS, THE BUILDING SITE, AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. IF CONTRACTOR HAS QUESTIONS REGARDING ASSEMBLIES OR LAYOUTS WITH THE PROJECT HE SHALL MAKE THEM KNOWN TO THE ENGINEER IN WRITING PRIOR TO BIDDING THE PROJECT. CLAIMS MADE SUBSEQUENT TO THE BID WILL NOT BE ACCEPTED IF IT IS DETERMINED THAT PROPER
- FAMILIARIZATION COULD HAVE AVOIDED SUCH CLAIM. 7. COMPLY WITH STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO
- ACCESSIBLE FEATURES. 8. MECHANICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIXTURES. IF PLUMBING FIXTURES OR DRAINS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT EVEN IF NOT SHOWN ON
- THE MECHANICAL DRAWINGS. 9. DO NOT SCALE DIRECTLY FROM THE PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

PLUMBING KEYED NOTES

- (1) RE:1/MP1.1 FOR DETAIL. DETAIL MAY BE SIMILAR OR OPPOSITE HAND. CONFIRM WITH EXACT LAYOUT AS REQUIRED.
- 2 1/2" ARGON GAS DROP AND 1/2" 75/25 GAS DROP LOCATIONS FOR WELDING BOOTH. PROVIDE ISOLATION VALVE AND QUICK CONNECT. TYPICAL FOR EACH WELDING BOOTH. RE:1/MP1.1 FOR
- (3) 1/2" ARGON GAS DROP AND 1/2" 75/25 GAS DROP LOCATIONS FOR EXISTING WELDING BOOTH. PROVIDE ISOLATION VALVE AND QUICK CONNECT. TYPICAL FOR EACH EXISTING WELDING BOOTH RE:4/MP1.1 FOR DETAIL.
- 4 PROVIDE TRAPEZE UNISTRUT AND ALL REQUIRED HANGER RODS AND FASTENERS. HANG UNISTRUCTS AT 10'-0" A.F.F. FOR ENTIRE LENGTH AS REQUIRED TO ROUTE 75/25 GAS AND ARGON PIPING. TYPICAL FOR QUANTITY SIX (6) UNISTRUTS OVER WELDING BOOTH AREA.

PLUMBING LEGEND

ARGON GAS SUPPLY, TYPE L COPPER _____ 75/25 MIX GAS SUPPLY, TYPLE L COPPER

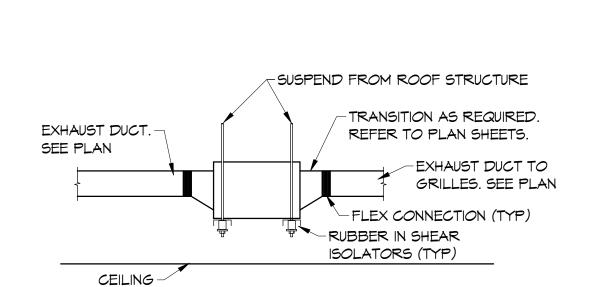
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ENGINEER 多, No.14057 50

> PROJECT NO. REVISION DATES



MELDING HOOD ELEVATION

3 INLINE EXHAUST FAN DETAIL

EXISTING WELDING BOOTH ELEVATION

PLAN.

RE:P2.1 FOR WELDING LAB PLUMBING

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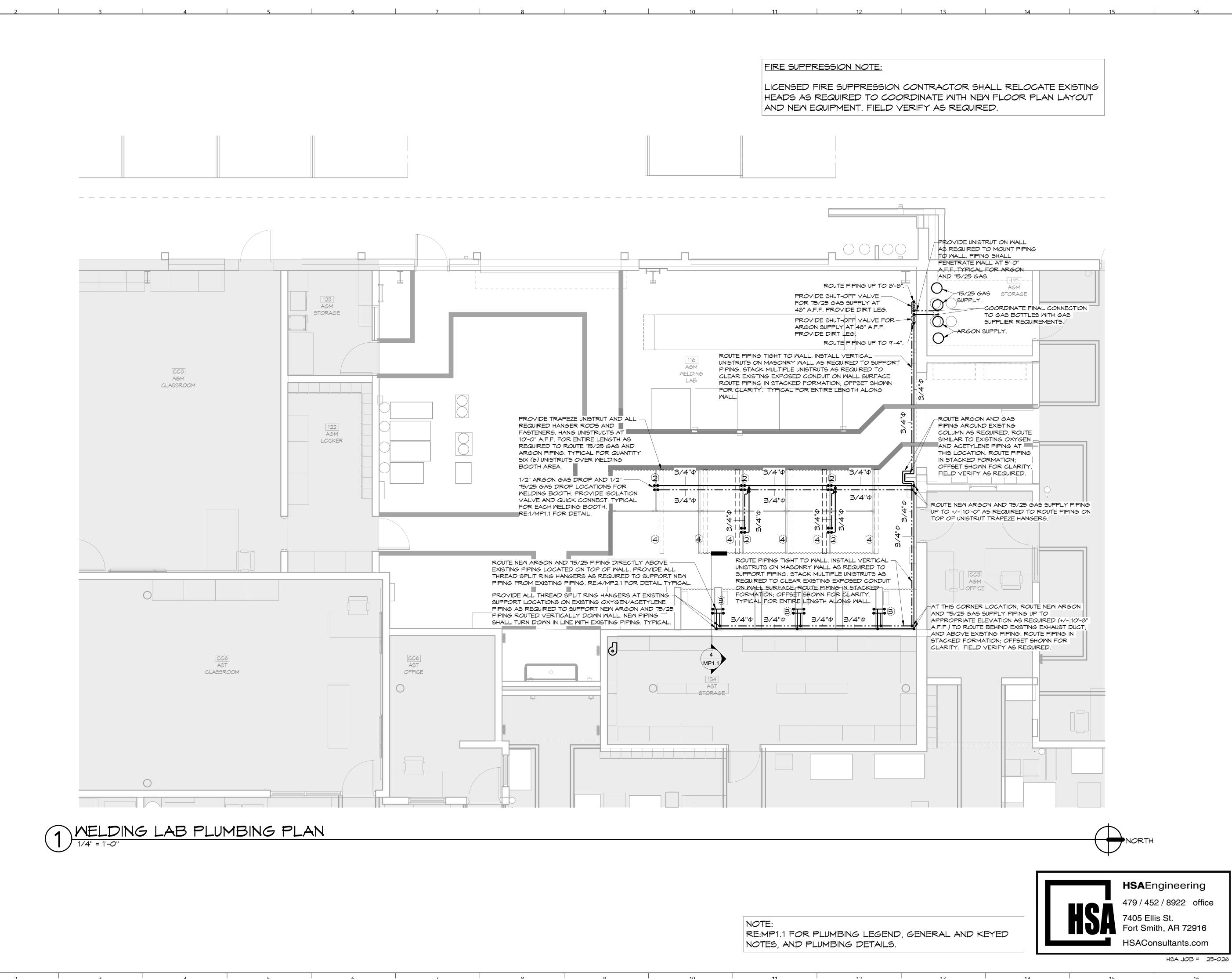
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04/23/2025

PLUMBING NOTES & LEGEND & DETAIL SHEET

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ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER

AND E. WILLIAM
15/25

HIGHT GROOT ROGERS, Arkansas 72758 1 (479) 464-4965 1 www.hjarch.co

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04/15/2025

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WELDING LAB PLUMBING PLAN S H E E T

P2 1

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GENERAL NOTES

- 1. INDICATED DUCT SIZES ARE NET FREE AREA.
- 2. ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- 3. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- 4. USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
- 5. MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
- 6. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS MECHANICAL
- 7. SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- 8. FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION
- STANDARDS, LATEST EDITION, AND ARKASNAS MECHANICAL CODE.
- 9. DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.

KEYED NOTES

- [1] MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE MITHIN 10 FT. LIMIT.
- 2 PROVIDE MACURCO NOTIFICATION SERIES HORN STROBE WITH YELLOW LENS COLOR. UNIT IS 24 VOLT UNIT AND POWER TO BE PROVIDED BY TRANSFORMER FOR CONTROLLER. MOUNT ON WALL ABOVE DOOR JUST BELOW CEILING.
- [3] REFER TO SECTION 2-4/M1.1 FOR MORE DETAILED INFORMATION.
- 4 PROVIDE MACURCO OX-6 OXYGEN SENSOR MOUNTED AT 48" TO BOTTOM OF OXYGEN DETECTOR, CONTROLLER. PROVIDE WITH 120/24 VOLT POWER TRANSFORMER ABOVE CEILING. SENSOR SHALL BE SET TO ALARM WHEN OXYGEN LEVEL FALLS BELOW 19.5%.

MECHANICAL LEGEND SUPPLY, RETURN, OR EXHAUST DUCT

SPIRAL DUCT

EXISTING SUPPLY, RETURN, OR EXHAUST DUCT

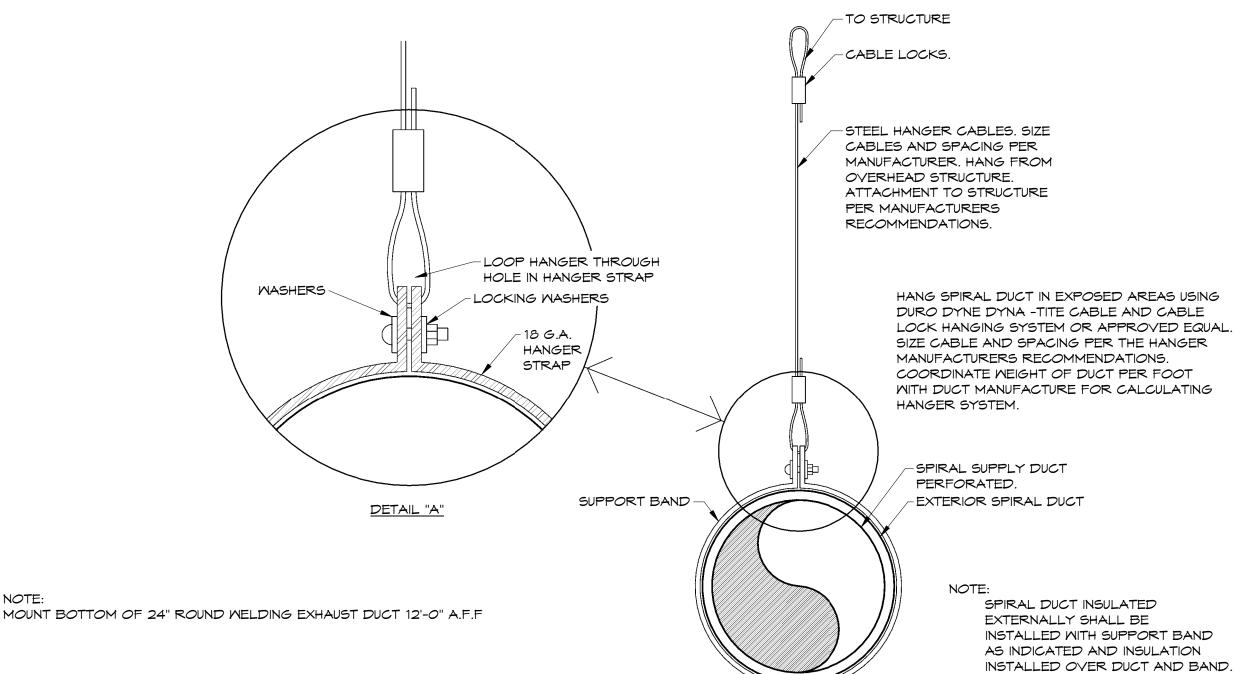
FOR VOLUME DAMPER

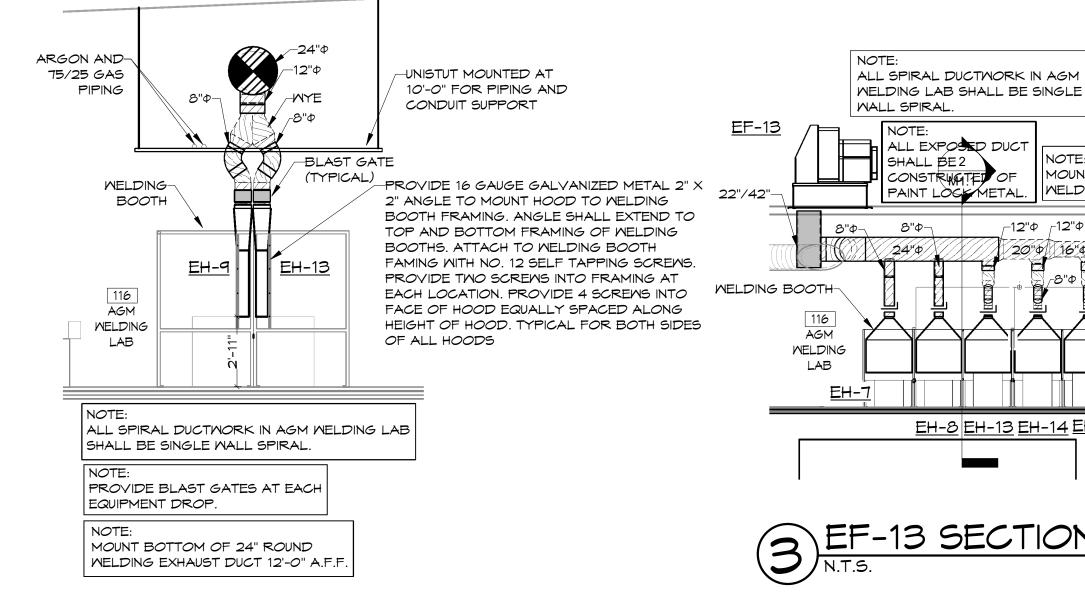
FLEX DUCT CONNECTION MAXIMUM OF 5 FT.

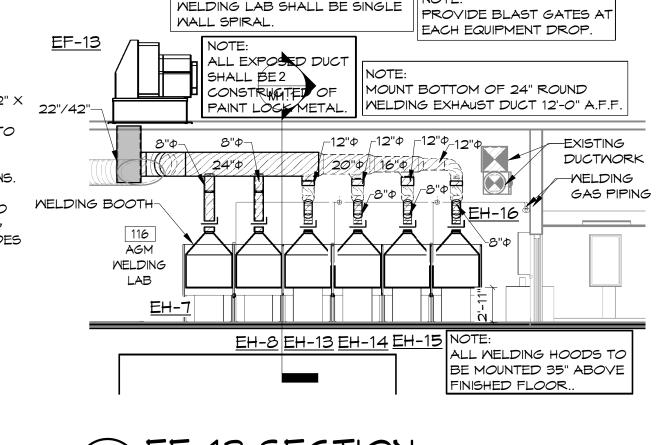
SUPPLY DUCT SECTION

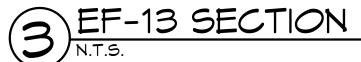
RETURN OR EXHAUST DUCT SECTION

SEE KEYED NOTES





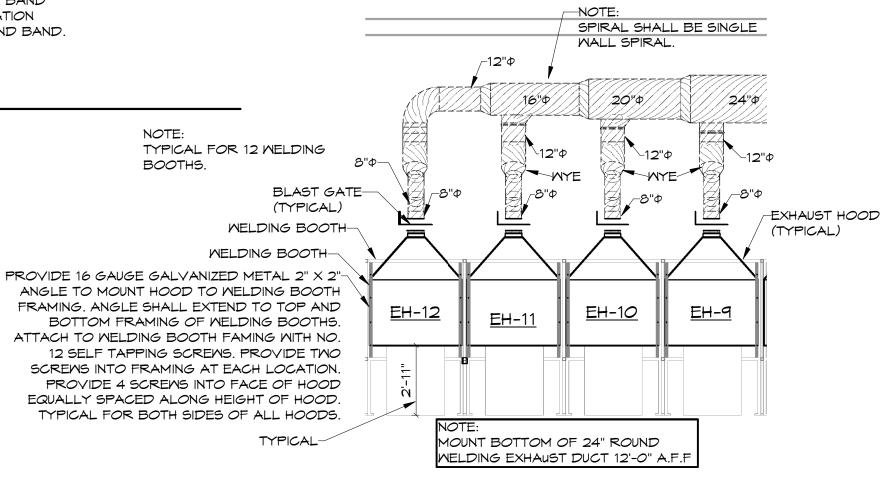


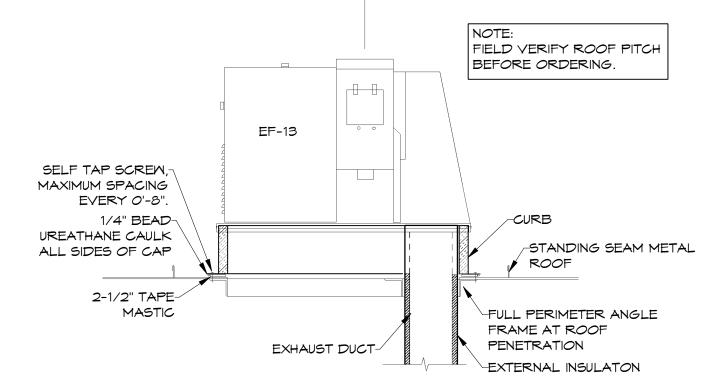


MELDING HOOD AND DUCTMORK DETAIL

ALL EXPOSED DUCT SHALL BE

CONSTRUCTED OF PAINT LOCK METAL





MELDING BOOTH MOUNTING DETAIL

STREET OF MOUNTED WELDIND FAN DETAIL

N.T.S.

N.T.S.

	MELDING EXHAUST HOOD SCHEDULE										
Mark	MFG.	MODEL	CFM	TYPE	FINISH	REMARKS / ACCESSORIES					
EH-7	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-8	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-9	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-10	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-11	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-12	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-13	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-14	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-15	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					
EH-16	CAR-MON	FH-46	1000	MELDING HOOD	GALVANIZED	1, 2					

1 EXPOSED SPIRAL DUCT SUPPORT DETAIL

REMARKS/ACCESSORIES

1. STEEL CONSTRUCTION. 2. BOTTOM OF HOOD TO BE 35" A.F.F.

	MELDING EXHAUST FAN SCHEDULE											
Mark	MFG.	MODEL	CFM	ESP. IN. MC	HP / MATTS	VLT / PH / HZ	RPM	UNIT MEIGHT (LBS)	CURB MEIGHT (LBS)	REMARKS / ACCESSORIES		
EF-13	PENNBARRY	UVS2 270-100 B	10,000	4	10	460 / 3 / 60	1415	870	298	1, 2, 3, 4, 5, 6, 7		

120 / 1 / 60

873

REMARKS/ACCESSORIES

- 1. PROVIDE FACTORY BACK DRAFT DAMPER.
- 2. PROVIDE BELTDRIVE FAN WITH WEATHER COVER.
- 3. PROVIDE FACTORY VIBRATION ISOLATION RAILS AND ROOF CURB SUPPORTS.
- 4. PROVIDE WITH FACTORY DRAIN OUTLET.
- 5. PROVIDE WITH FACTORY MOTOR START WITH START/STOP AND PILOT LIGHT. 6. PROVIDE FULL PERMETER SLOPE STANDING SEAM METAL ROOF 14" TALL CURB. FIELD VERIFY ROOF PITCH AND

75

- SLOPE DIRECTION PRIOR TO ORDERING. 7. PROVIDE WITH FACTORY SLOPED FAN INLET BOX.
- 8. PROVIDE DIIRECT DRIVE FAN WITH FAN SPEED CONTROLLER.
- 9. FAN TO OPERATE CONTINUOUSLY. 10. PROVIDE WITH RUBBER IN SHEAR VIBRATION ISOLATORS

1, 8, 9, 10

REFER TO SHEET M1.1 FOR GENERAL HVAC NOTES, KEYED NOTES, LEGEND, SCHEDULES AND DETAILS. REFER TO SHEET M2.0 FOR FIRST FLOOR DEMOLITION PLAN.

REFER TO SHEET M2.1 FOR FIRST FLOOR HVAC PLAN

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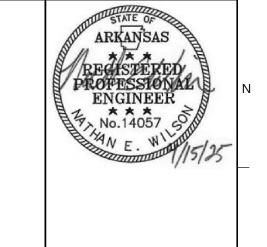
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HVAC NOTES & LEGEND SHEET

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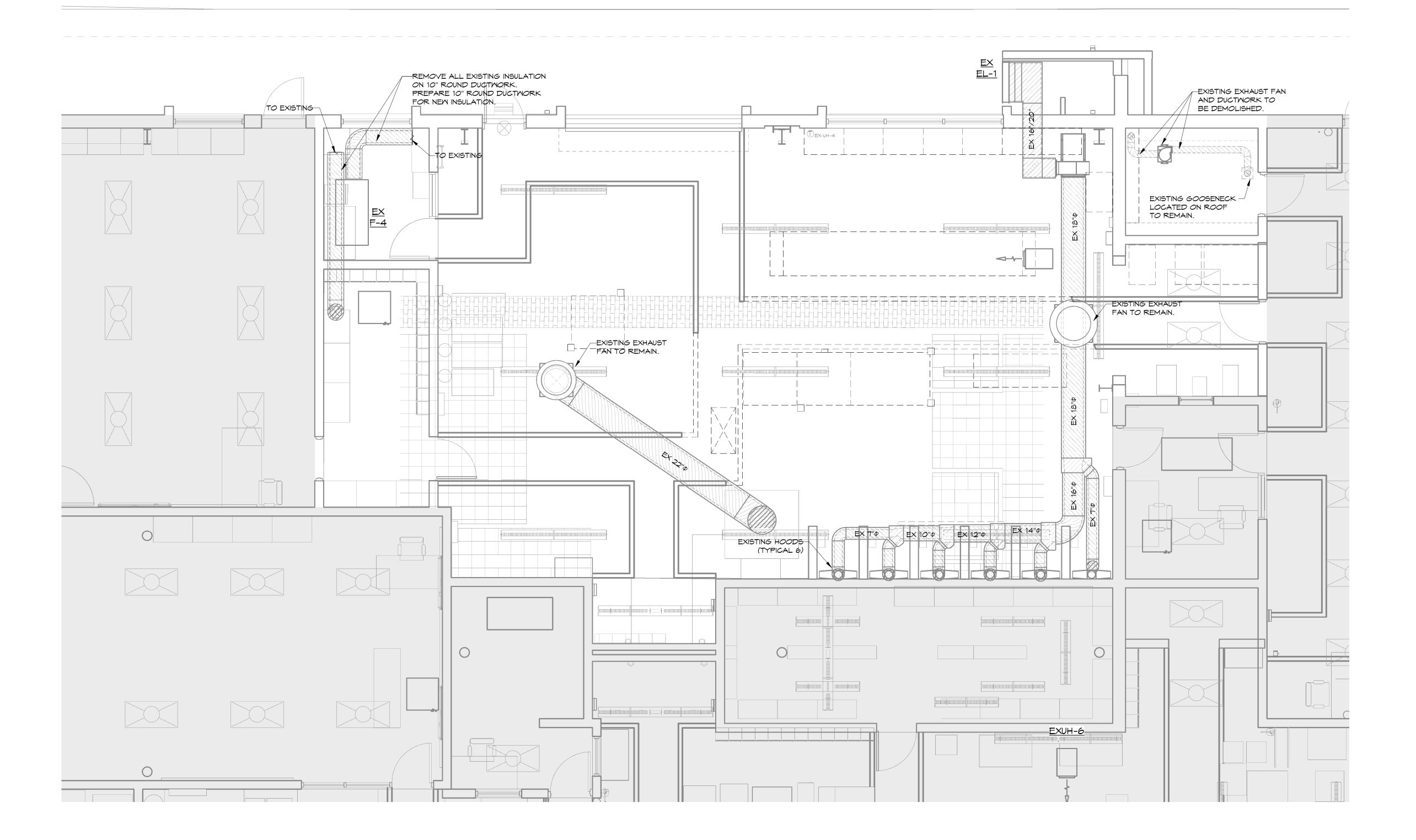
FIRST FLOOR HVAC DEMOLITION PLAN S H E E T

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1) FIRST FLOOR DEMOLITION HYAC PLAN

REFER TO SHEET M2.0 FOR FIRST FLOOR DEMOLITION PLAN.

REFER TO SHEET M2.1 FOR FIRST FLOOR HVAC PLAN.

ALL SPIRAL DUCTWORK IN JOB SHALL BE SINGLE WALL SPIRAL.

1) FIRST FLOOR HVAC PLAN

ALL EXPOSED DUCT IN ROOM A108 SHALL BE CONSTRUCTED OF PAINTLOCK METAL.

MOUNT BOTTOM OF 24" ROUND WELDING EXHAUST DUCT 12'-0" A.F.F.

BOTTOM OF WELDING EXHAUST HOODS TO BE 35" A.F.F.

REFER TO SHEET M1.1 FOR GENERAL HVAC NOTES, KEYED NOTES, LEGEND, SCHEDULES AND DETAILS. REFER TO SHEET M2.0 FOR FIRST FLOOR DEMOLITION PLAN. REFER TO SHEET M2.1 FOR FIRST FLOOR HVAC PLAN.



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FIRST FLOOR HVAC FLOOR S H E E T

KEYED LIGHTING NOTES

- (1) CONNECT EXISTING LIGHTING CIRCUIT AND SWITCH IN SPACE. FIELD VERIFY EXISTING CONDITIONS.
- 2 NEW LIGHT FIXTURE INSTALLED IN PLACE OF EXISTING FIXTURE. RECONNECT TO EXISTING CIRCUIT. SUSPENDED LIGHT FIXTURE ELEVATION TO MATCH EXISTING.
- (3) MOUNT NEW FIXTURES AT SAME HEIGHT AS EXISTING FIXTURES. APPROXIMATELY 10' AFF, FIELD VERIFY
- 4 NEW LIGHT FIXTURE INSTALLED IN PLACE OF EXISTING FIXTURE IN LAY-IN CEILING . RECONNECT TO

REGISTERED PROFESSIONAL ENGINEER

4/15/2025

ROGERS SCHOOL DISTRICT
RCC Welding Remodel

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04/15/2025 PROJECT NO. **2503**

REVISION DATES 04/23/2025

LIGHTING PLAN

S H E E T

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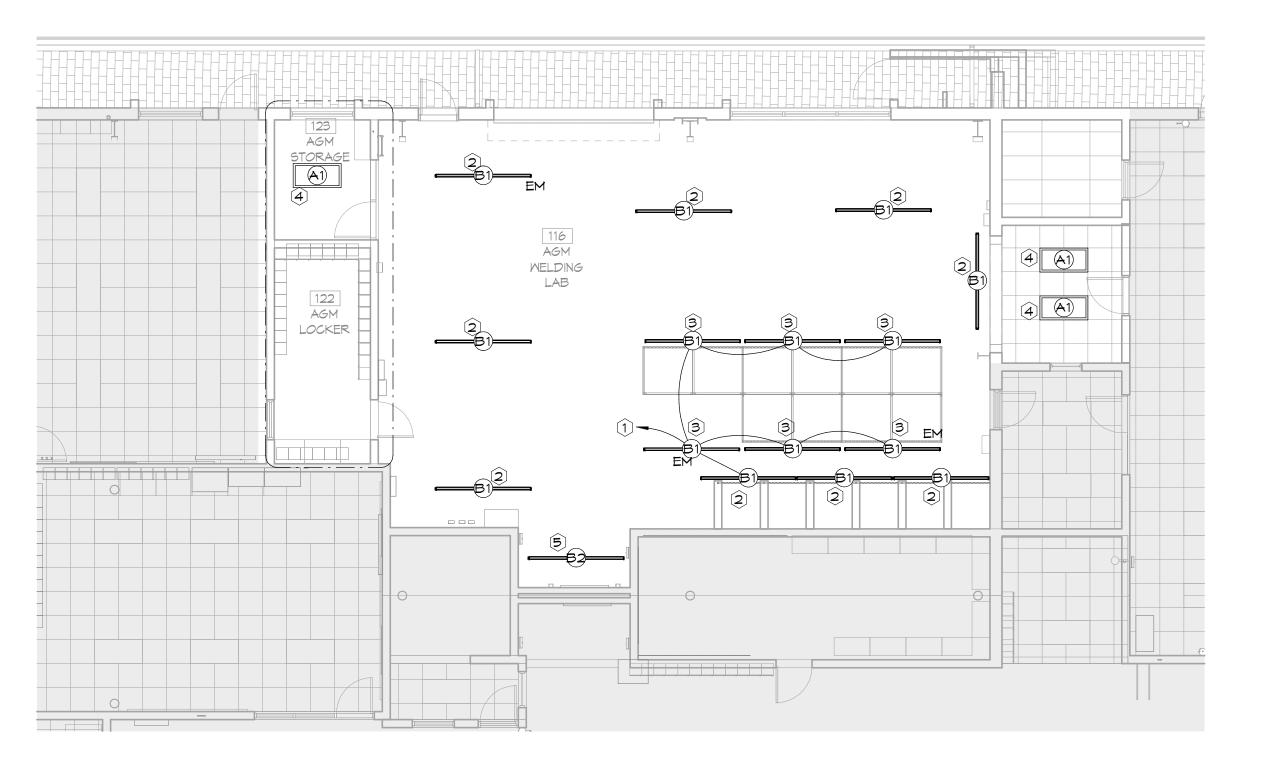
SUSPEND LIGHT FIXTURE ELEVATION TO MATCH EXISTING.



EXISTING CONDITIONS.

EXISTING CIRCUIT.

(5) NEW LIGHT FIXTURE INSTALLED IN PLACE OF EXISTING FIXTURE IN METAL CEILING. SURFACE MOUNT. RECONNECT TO EXISTING CIRCUIT.



1) LIGHTING PLAN

1/8" = 1'-0"





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DUPLEX RECEPTACLE (NEMA 5-20R) OR-DOUBLE DUPLEX.

220 YOLT RECEPTACLE (NUMBER DENOTES AMPS)

RESISTANT, COMMERCIAL SPECIFICATION GRADE.

FUSE PER EQUIPMENT FURNISHED.

TOP OF SMITCH AT 36" A.F.F.

ELECTRICAL PANEL.

DENOTES EXHAUST FAN)

SIZED PER MOTOR LOAD.

GFI = GROUND FAULT CIRCUIT INTERRUPTER.

MP = WEATHER RESISTANT RECEPTACLES ARE "GFI", WITH METAL

MEATHER RESISTANT "WHILE-IN-USE" COVERS.

EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.

Panel Name: ML

Amp Rating: 400 A

MCB Rating: N/A

Mains: MLO

Volts/Phase/Wire 120/208 Mye / 3 / 4

_DETAIL NUMBER

SHEET NUMBER

EC = ELECTRICAL CONTRACTOR

AFF = ABOVE FINISHED FLOOR

NTS = NOT TO SCALE

INDICATED.

TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.

DUPLEX RECEPTACLE GROUND FAULT NEMA 5-20R. TAMPER

CORD REEL DROP, WITH BACK TO BACK DOUBLE DUPLEX

RECEPTACLES, HUBBELL - HBL45123R220 OR EQUAL. MOUNT TO

COMBINATION MAGNETIC STARTER/FUSIBLE DISCONNECT SMITCH;

EXHAUST FAN SMITCH, PROVIDE SINGLE POLE SMITCH TYPE 1221

MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING

MEANS. SINGLE PHASE: PROVIDE WITH THERMAL OVERLOAD

HVAC SENSOR, MOUNT PER MANUFACTURERS REQUIREMENTS.

CONNECT SMITCH TO EXHAUST FAN LISTED. PROVIDE TYPED LABEL

LISTING EXHAUST FAN CONTROLLED ON SWITCH FACEPLATE. (NUMBER

EQUIPMENT. MOUNT DISCONNECT FOR HVAC CONDENSER UNITS WITH

STRUCTURE. YELLOW FINISH TO MATCH EXISTING CORD REELS.

NON-FUSED DISCONNECT. FURNISH DISCONNECT SIZED FOR

BRANCH CIRCUIT HOMERUN. PANEL AND CIRCUIT NUMBER

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION.

2. THIS CONTRACTOR IS TO COMPLY WITH THE STATE OF ARKANSAS ADOPTED ADA

ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES. 3. AT ALL MILLWORK LOCATIONS COORDINATE THE ELECTRICAL INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.

4. PROVIDE FIRE RATED CAULKING WHERE CONDUIT OR OTHER ELECTRICAL ITEMS PASS THOUGH FIRE-RATED WALLS, CEILINGS AND FLOORS.

5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND FEE COSTS AND SHALL INCLUDE THESE COSTS IN THE BID PRICE FOR THIS PROJECT.

6. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IF A CONFLICT IS FOUND BETWEEN APPLICABLE CODES, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL

APPLICABLE MUNICIPAL CODES AND ORDINANCES. 7. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE DRAWINGS, SPECIFICATION BOOK, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.

8. DO NOT SCALE DIRECTLY FROM THE ELECTRICAL DRAWINGS. REFER TO THE

ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION. 9. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED. THIS CONTRACTOR GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.

10. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES MITHOUT ADDITIONAL COST TO THE OMNER. NO OTHER CHANGES WILL BE MADE WITH OUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER

11. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL CIRCUITS AND DEVICES ARE OF A PROPER SIZE FOR ACTUAL EQUIPMENT FURNISHED. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT WHICH CAUSES CHANGES TO ANY SYSTEM AS DESIGNED ON THESE DRAWINGS. FAILURE ON THE PART OF THE CONTRACTOR TO NOTIFY THE ENGINEER OR ARCHITECT OF SUCH CONFLICTS PLACES THE SUBSEQUENT CHANGES UPON THE CONTRACTOR.

12. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING SYSTEMS:

A. POWER AND LIGHTING

1. ALL DEVICE PLATES ARE STAINLESS STEEL. COLOR OF DEVICES TO MATCH EXISTING. FIELD VERIFY.

2. ALL 20A 120Y AND 250Y NON-LOCKING TYPE RECEPTACLES, UNLESS OTHERWISE NOTED, SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.

3. WHERE DEVICES ARE SHOWN NEXT TO EACH OTHER, THEY ARE INTENDED TO BE GANGED. FIELD VERIFY ACTUAL SPACE AVAILABLE AND NOTIFY THE ARCHITECT WHERE THERE ARE SPACE CONFLICTS.

4. LOM VOLTAGE MIRING IS TO BE ENCASED IN CONDUIT IN AREAS MITH NO CEILING.

5. ALL EMPTY CONDUITS ARE TO CONTAIN A NYLON PULL STRING. EMPTY CONDUITS 2" AND LARGER ARE TO BE SMABBED OUT AND LEFT WITH A NYLON PULL ROPE FOR THE USE OF THE OWNER

6. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LAMP COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON

7. COORDINATE WITH THE GENERAL CONTRACTOR AND THE INSULATION CONTRACTOR TO HOLD THE BATT INSULATION AWAY FROM ALL LAY-IN FIXTURES. CLEARANCE SHOULD BE 3" ON ALL SIDES, AND TOTALLY CLEAR ON THE TOP.

 $3.\,$ ROOM NUMBERS USED IN THE PANEL SCHEDULES ARE TO REFLECT EXISTING ROOM

9. ALL CONDUITS ARE TO CONTAIN A GREEN GROUNDING CONDUCTOR, SIZED PER THE N.E.C.

10. WHERE INDIRECT (SUSPENDED) LIGHTING IS USED, THE ELECTRICAL CONTRACTOR SHALL CONTRACT WITH THE CEILING CONTRACTOR TO PROVIDE THE NECESSARY TIES TO THE STRUCTURE ABOVE AT EACH POINT OF ATTACHMENT OF THE FIXTURE 11. WIRE SIZES:

MIRE SIZE 120V

A. #12 LESS THAN 75 FEET B. #10 BETWEEN 75-150 FEET C. #8 BETWEEN 150-250 FEET D. #6 BETWEEN 250-375 FEET

B. EQUIPMENT REQUIREMENTS:

1. VERIFY EXACT FUSE SIZE AND EQUIPMENT REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED BY THE OTHER CONTRACTORS.

2. FINAL EQUIPMENT CONNECTIONS: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED ON THIS PROJECT. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZES, OVERCURRENT PROTECTION, PHASES, VOLTAGES, MOTOR ROTATION, ETC., WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.

3. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONTACTORS, MAGNETIC STARTERS, AND MISCELLANEOUS WIRING NECESSARY TO CONTROL EXHAUST FANS AND OTHER AUTOMATICALLY OPERATED EQUIPMENT. THE CONTROLS CONTRACTOR IS TO FURNISH ONE RELAY PER ITEM AS COMPATIBLE WITH THEIR CONTROL SYSTEM.

C. HYAC CONTROL:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM EACH HVAC UNIT TO ITS RESPECTIVE THERMOSTAT, HUMIDISTAT, AND/OR SENSOR, AS REQUIRED. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.

2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR LINE VOLTAGE CONTROL SYSTEMS.

3. ALL LOW VOLTAGE CONTROL WIRING SHALL BE ENCLOSED IN CONDUIT IN SPACES MITH NO CEILING

4. COORDINATE ALL HVAC WIRING WITH THE MECHANICAL DRAWINGS

AND THE MECHANICAL CONTRACTOR.

5. THE ELECTRICAL CONTRACTOR IS TO PROVIDE A MAGNETIC STARTER FOR EACH EXHAUST FAN. THIS STARTER IS CONTROLLED BY THE LIGHTING/MOTION SENSOR SYSTEM.

					L	<u> </u>	, H -	TIN	IG FIXTUR	E SCHEDULE			
				LAMP		MOUN							
MARK	VOLT	MATT			BRKT	PEN	REC	SUF	MANUFACTURER CATALOG NO.		REMARKS		
1.4	115.15.7	10		10001							H.E. WILLIAMS	LT-24-L64/840-AF-DIM-UNV	2'X4' LED DIRECT INDIRECT TROFFER
A1	UNV	49		4000K	X METALUX		METALUX	24CZ5CT3-5-UNV					
						.,			H.E. WILLIAMS	755-8-L100/840-XX-DIM-UNV	8' UTILITY STRIP LIGHT, 10000 LU MATCH EXISTING MOUNTING HEIGH		
B1	UNV	66		4000K	4000K X METALUX 8TSNX		8TSNX-100SL-LM-UNV-L840-CD-1	INVIOLI EXISTINO PICONTINO FILICITI					
									H.E. WILLIAMS	755-8-L100/840-XX-DIM-UNV	8' UTILITY STRIP LIGHT, 10000 LUME SURFACE MOUNT.		
B2 UNV 66			- 4000K				×	METALUX	8TSNX-100SL-LM-UNV-L840-CD-1	SURFACE MOUNT.			

NOTE: HOLD ALL INSULATION OFF RECESSED FIXTURES AT A MINIMUM OF 3" TO THE SIDE NOTE: FIXTURES MARKED AS "CTBS" REQUIRE STANDARD FINISHED SELECTED BY THE ARCHITECT. NOTE: FOR ALL FIXTURES WITH 0-10Y DIMMING, PROVIDE LOW VOLTAGE CABLE.

NOTE : ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LED AND DRIVER COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE FIXTURE.

NOTE : ORDER OF LIGHT FIXTURE MANUFACTURES IN SCHEDULE DOES NOT RELATE TO ANY ORDER OF IMPORTANCE ON PREFERENCE. ALL LIGHT FIXTURE MANUFACTURERS LISTED ARE ACCEPTABLE AND MEANT TO BE EQUIVALENT.

NOTE: EM OR NL DENOTES EMERGENCY BATTERY PACK GOOD FOR MINIMUM OF 1.5 HOURS.

	PANEL	SCHEDULE
_		

Manufacturer: SQUARE D Panel Type: NQ Mounting: Surface Remarks: EXISTING

Fault Rating: EXISTING Feed: REFER TO ELECTRICAL RISER

Circuit Description	COND. SIZE	MIRE SIZE	GRD. SIZE	# OF Mires	Poles	TRIP	CKT	A	4	E	3			CKT	TRIP	Poles	# OF Mires	GRD. SIZE	MIRE SIZE	COND. SIZE	Circuit Description
EXISTING	1	6	6	4	2	50	1	2250	180					2	20	1	3	12	12	3/4	EXISTING
							3			2250	360			4	20	1	3	10	10	3/4	EXISTING
EXISTING	1	6	6	4	2	50	5					2250	360	6	20	1	3	10	10	3/4	EXISTING
							7	2250	2500					8	50	2	3	10	8	3/4	*R-RM: A116 - WELDER
EXISTING	1	6	6	4	2	50	9			2250	2500			10							
							11					2250	2500	12	50	2	3	10	8	3/4	*R-RM: A116 - WELDER
EXISTING	1	6	6	4	2	50	13	2250	2500					14							
							15			2250	360			16	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
EXISTING	1	6	6	4	2	50	17					2250	360	18	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
							19	2250	360					20	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
EXISTING	1	6	6	4	2	50	21			2250	0			22	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
							23					2250	0	24	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
EXISTING	1¼	3	3	4	2	100	25	9600	360					26	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
							27			9600	180			28	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB
EXISTING	1	6	6	4	2	50	29					2250	0	30	60	3	5	10	6	1	*EF-13
							31	2250	0					32							
EXISTING	1	6	6	4	2	50	33			2250	0			34							
							35					2250	360	36	20	1	3	12	12	3/4	**R-RM: A116 AGM WELDING LAB - CR
*R-RM: A116 - WELDER	3/4	8	10	3	2	50	37	2500	0					38	20	1					EXISTING
							39			2500	0			40	20	1					EXISTING
*R-RM: A116 - WELDER	3/4	8	10	3	2	50	41					2500	0	42	20	1					EXISTING
							43	2500	0					44	20	1					EXISTING
EXISTING					2	30	45			0	0			46	20	1					EXISTING
							47					0	0	48	20	1					EXISTING
Spare Spare					2	20	49	0	0					50	20	1					EXISTING
							51			0	2500			52	50	2	3	10	8	3/4	*R-RM: A116 - WELDER
Spare Spare					2	20	53					0	2500	54							
							55	0	0					56	20	1					EXISTING
*R-RM: A116 - WELDER	3/4	8	10	3	2	50	57			2500	2500			58	50	2	3	10	8	3/4	*R-RM: A116 - WELDER
							59					2500	2500	60							
*R-RM: A116 - WELDER	3/4	8	10	3	2	50	61	2500	0					62	20	1					EXISTING
							63			2500	0			64	20	1					EXISTING
*R-RM: A116 - WELDER	3/4	8	10	3	2	50	65					2500	2500	66	50	2	3	10	8	3/4	*R-RM: A116 - WELDER
							67	2500	2500					68							
EXISTING					2	30	69			0	0			70	20	1					EXISTING
							71					0	0	72	20	1					EXISTING
EXISTING					2	30	73	0	0					74	20	1					EXISTING
							75			0	0			76	20	1					EXISTING
EXISTING					2	25	77					0	0	78	20	1					EXISTING
							79	0	0					80	20	1					EXISTING
EXISTING					2	20	81			0	0			82	20	1					EXISTING
							83					0	0	84	20	1					EXISTING
					Total	Load:		3925	O VA	3675	O VA	3208	O VA								
					Tabal	Amoc.		222	2 A	211	7	26	7 .	1							

	Total Amps:	333 A	312 A	267 A		
Load Classification	Connected Load	Dema	and Factor	Estima	ted Demand	Panel Totals
Lighting	O VA		0.00%		O VA	
Receptacle	2160 VA	10	0.00%	2	160 VA	Total Conn. Load: 108080 VA
HVAC	O VA		0.00%		O VA	Total Est. Demand: 82980 VA
Motor	O VA		0.00%		O VA	Total Conn. Current: 304 A
Other	50000 VA	7	5.00%	37	500 VA	Total Est. Demand Current: 230 A
Kitchen	36000 VA	6	5.00%	23	400 VA	

*REQUIRES NEW BREAKER

**USE EXISTING SPARE BREAKER. ACTUAL CIRCUIT NUMBERS MAY VARY, FIELD VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED.

ELECTRICAL OUTLET DEVICE TYPE * RECEPTACLES OUTLETS, MICROPHONE OUTLETS	MASONRY WALL, BASE (STARTER) COURSE HEIGHT 4 INCH / 8 INCH MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF	MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF		
(JACKS), EQUIPMENT OUTLETS (JACKS), TELEVISION OUTLETS (JACKS), PORTABLE TELEPHONE OUTLETS, COMPUTER OUTLETS, ETC.	OUTLET (DEVICE) BOX			
* GENERAL DEVICE THROUGHOUT	18"	18"		
* MECHANICAL EQUIPMENT ROOMS	52"	48"		
* ABOVE 24" HIGH COUNTER TOPS	30"	32"		
* ABOVE 30" HIGH COUNTER TOPS	36"	40"		
* ABOVE 36" HIGH COUNTER TOPS	44"	44"		
* ABOVE 48" HIGH COUNTER TOPS	52"	56"		
* ABOVE BACKSPLASH TOP	2" (MINIMUM)	2" (MINIMUM)		
* ABOVE OR ADJACENT TO LAVATORIES	44"	44"		
* BEHIND DOMESTIC REFRIGERATORS	52"	56"		
* BEHIND DOMESTIC WASHERS AND DRYERS	36"	32"		
* SERVING DOMESTIC DISHWASHERS	2"	2"		
* WALL-MOUNTED TELEPHONE OUTLETS	44"	44"		
* TELEPHONE/VIDEO CONTROL	44"	44"		
TOGGLE SMITCHES	44"	44"		
RECESSED MOTOR CONTROLLERS	44"	44"		
ELECTRICAL PANELS, TERMINAL CABINETS, ETC., TO CENTER OF TUB OR BOX	50"	48"		
MALL SMITCHES	44"	44"		
HVAC THERMOSTAT/SENSOR	44"	44"		
VOLUME CONTROLS, CALL-IN SMITCHES	44"	44"		
HORN/STROBES (FIRE ALARM)	80"	80"		
	42" MINIMUM	40" MINIMIM		

MOUNTING HEIGHTS

MOUNTING HEIGHT TABLE

N.T.5 * OPERATING HANDLE TO BE MOUNTED NO LESS THAN 42" OR NO MORE THAN 48" A.F.F.

PULL STATIONS (FIRE ALARM)



NOTE: VERIFY ALL MILLMORK LOCATIONS WITH THE ARCHITECTURAL MILLMORK DRAWINGS PRIOR TO ROUGH-IN.

48" MAXIMUM

HSAEngineering 479 / 452 / 8922 office Fort Smith, AR 72916

48" MAXIMUM

HSAConsultants.com HSA JOB # 25-026

ENGINEER * * *

No.16929

4/15/2025

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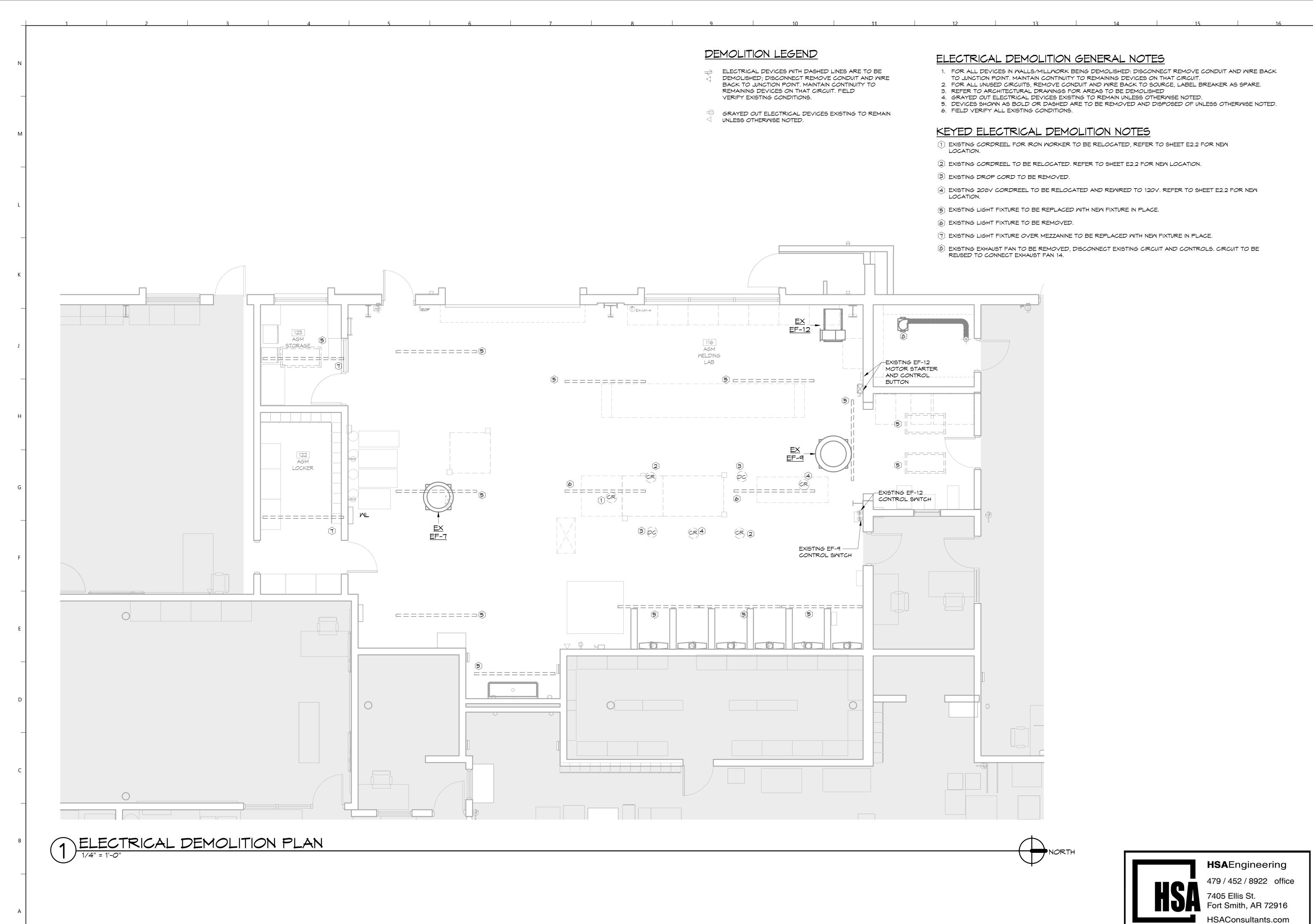
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ISSUE DATE 04/15/2025

04/23/2025

ELECTRICAL LEGEND, NOTES, & DETAILS SHEET

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ROGERS SCHOOL DISTRICT
RCC Welding Remodel

DRAWN BY CHECK BY. MTR ISSUE DATE

04/15/2025 PROJECT NO.

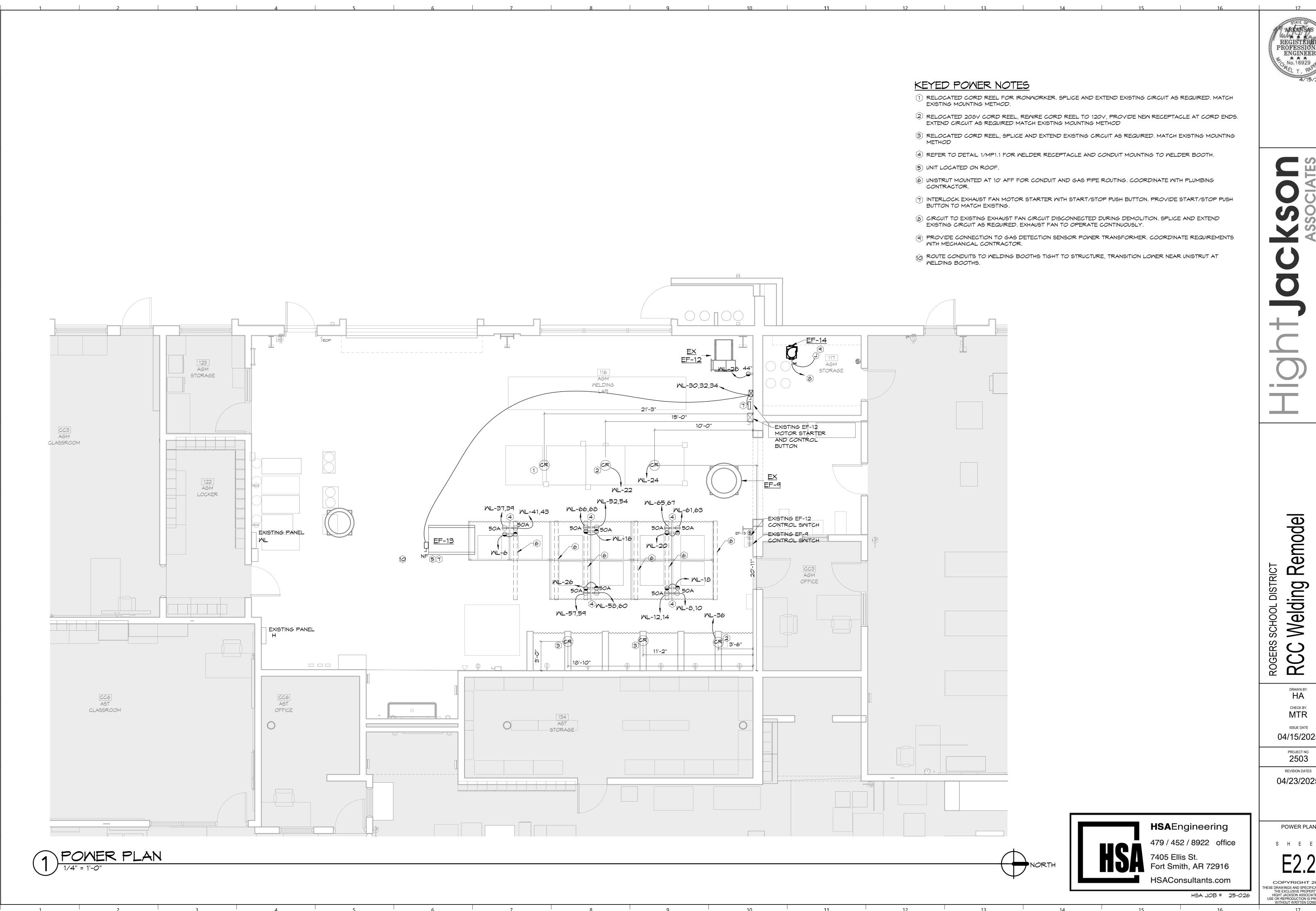
REVISION DATES 04/23/2025

ELECTRICAL DEMO PLAN

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POWER PLAN

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