HVAC PLAN SYMBOL LEGEND

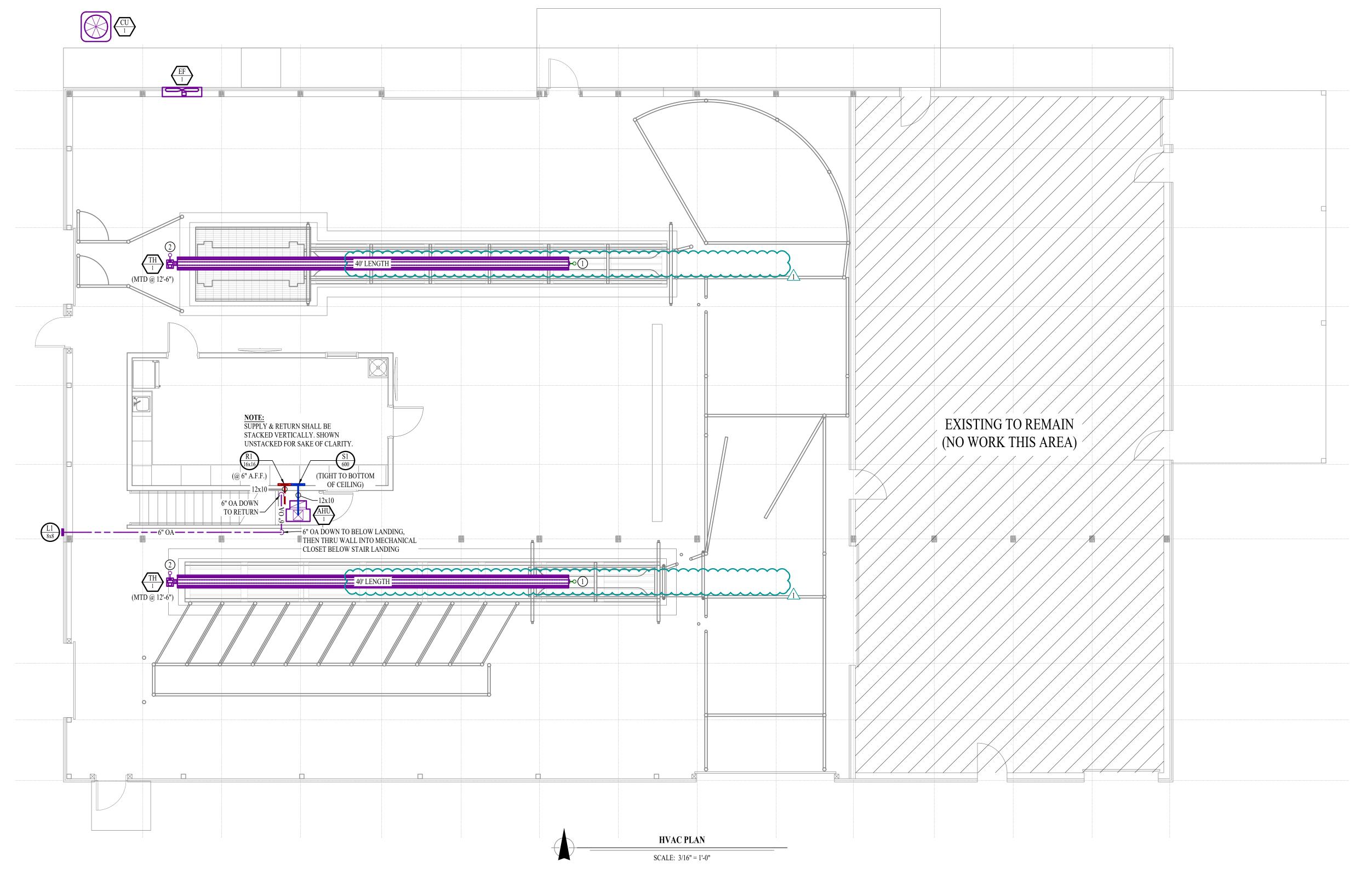
	EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
	EQUIPMENT REFERENCE NUMBER
\overline{X}	DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
#	CUBIC FEET PER MINUTE (CFM) / FACE SIZE
	SUPPLY DUCTWORK
	RETURN DUCTWORK
	EXHAUST DUCTWORK
	OUTSIDE AIR DUCTWORK
~~~~~	FLEX DUCT
	VENT / COMBUSTION AIR
	CONDENSATION LINE
·	REFRIGERANT LINE
$\left  \right\rangle$	TIE INTO EXISTING
	SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
	RETURN DIFFUSER
<b></b>	BALANCE DAMPER
8	MOTORIZED DAMPER
<b>о</b> ——	CEILING RADIATION DAMPER
•	FIRE RATED DAMPER
<u>ဖ</u>	SMOKE DAMPER
	THERMOSTAT

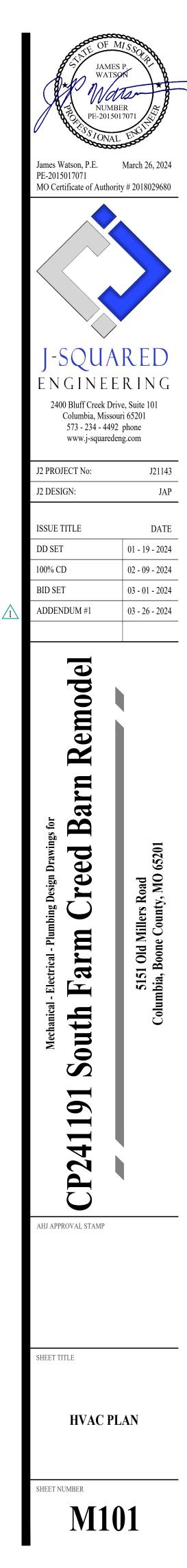
# HVAC PLAN GENERAL NOTES:

1. SEE SHEET M501 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.

HVAC PLAN KEY NOTES:	
1 4" FLUE UP THRU ROOF.	

(2) 4" COMBUSTION AIR INTAKE UP THRU ROOF.





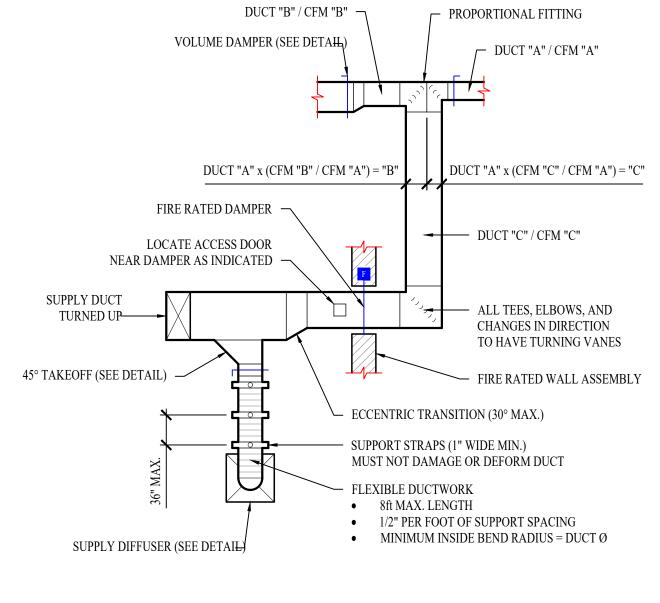
#### HVAC SPECIFICATIONS

#### 1. EQUIPMENT

- 1.1. ALL EQUIPMENT MUST PROVIDE THE PERFORMANCE SPECIFIED ON PLANS. WHERE SPECIFIC MAKES & MODELS ARE INDICATED ON PLAN, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL.
- 1.2. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT & ENGINEER PRIOR TO PURCHASE.
- 1.3. REFRIGERANT PIPING TO BE ACR COPPER.
- 2. DUCTWORK 2.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA
- STANDARDS.
- 26 GA. MINIMUM UP TO 16" DUCT, 24 GA. UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 28", AND 18 2.2. GA. UP TO 36".
- DOUBLE WALL TURNING VANES TO BE PROVIDED & INSTALLED AT ALL 90° BENDS & TEES. 2.3. DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT. 2.4.
- 2.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENTS AT EACH AIR TERMINAL. 2.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), THE BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
- 2.5.2. WHERE BRANCH TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), THE BALANCE
- DAMPER IS TO BE LOCATED SO IT IS ACCESSIBLE FROM FACE OF AIR DEVICE. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS & FITTINGS AS 2.6.
- REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
- 3. INSULATION 3.1. DUCTWORK

EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER EQUAL TO 'JOHNS MANVILLE 3.1.1. MICROLITE FSK TYPE 100 (2" THICK)'.

- 4. WORKMANSHIP
- COORDINATE WITH OTHER TRADES SO THAT HVAC EQUIPMENT & DUCTWORK DOES NOT 4.1. BLOCK REQUIRED ACCESS OR CLEARANCE TO OTHER EQUIPMENT.
- ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED 4.2.
- RECOMMENDATIONS.
- 4.2.1. ALL EQUIPMENT TO BE INSTALLED LEVEL & PLUMB.



TYPICAL DUCTWORK DETAIL

_____

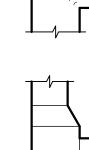


"T" BRANCH (SUPPLY)

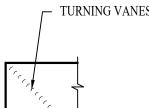
"T" BRANCH (SUPPLY)

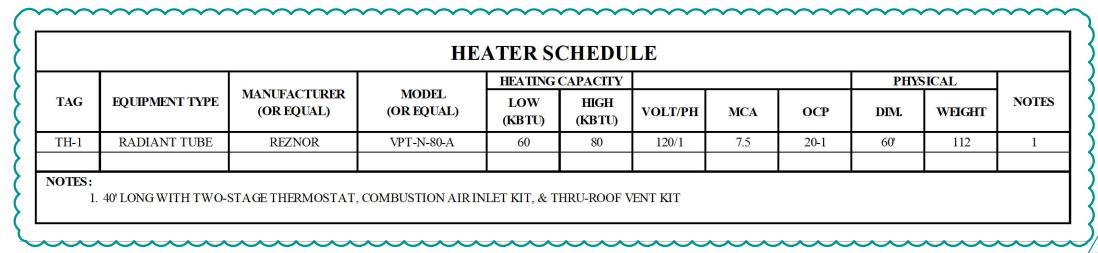
└── VOLUME DAMPER (TYP.)

"T" BRANCH (SUPPLY / RETURN)



90° ELBOW (SUPPLY / RETURN)





	AHU & AC SCHEDULE												
TAG	EQUIPMENT	SIZE	ODENTATION	TOTAL	OA AIRFLOW	HEATING	(IA: 80 D	COOLING B/67 WB, OA	A: 95 DB)	]	ELECTRICAL		NOTES
TAG	DES CRIPTION	(TONS)	ORIENTATION	AIRFLOW (CFM)	MAX/MIN	ELECTRIC	SENSIBLE	TOTAL	MIN EFF.				NOTES
				(CINI)	(CFM)	(KW)	(KBTU)	(KBTU)	(SEER)	VOLTS/PH	MCA	OCP	
AHU-1	AIR HANDLER	1.5	VERTICAL	600	-	3	-	-	-	240/1	24	25-2	1,2
CU-1	CONDENSING UNIT	1.5	-	-	-	-	13.2	17.8	13	240/1	12	20-2	5
NOTES:													
1.	PROVIDE AND INSTAL	L 7 DA Y PRO	GRAMABLE HONE	YWELL THER	MOSTAT. CO	OORDINA TE H	XACT MOUN	TING LOCAT	TION WITH O	WNER.			
2.	INCLUDE CORROSION	RESISTANT I	ORAIN PAN WITH O	OVERFLOW S	WITCH WIRE	D TO SHUT D	OWN UNIT.						
3.	WITH CO2 SENSOR AN	D MOTORIZI	ED DAMPER										

4. WITH LOW LEAKAGE MOTORIZED OUTSIDE AIR DAMPER, DAMPER TO OPEN DURING OCCUPIED HOURS AND CLOSE DURING UNOCCUPIED HOURS THRU THERMOSTAT SCHEDULE.

5. WITH FACTORY HAIL GUARD.

6. LOW AMBIENT PACKAGE FOR OPERATION TO 0° F.

			EXHAUS	FAN S	CHEDU	LE					
TAC		MANUFACTURER	MODEL	FL	OW	] ]	ELECTRICAL		PHYS	SICAL	NOTES
TAG	EQUIPMENT TYPE	(OR EQUAL)	(OR EQUAL)	CFM	S.P.	VOLT/PH	MCA	OCP	DIM.	WEIGHT	NOTES
EF-1	SIDEWALL FAN	S & P	LC48-2-E	17610	.375"	240/1	12	20-2	54 x 54	500	1,2,3
OTES:	WITH GRA VITY DAMPER, RAI										

	AIR DEVICE SCHEDULE											
TAG	SERVICE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR/ FINISH	NOTES						
S1	SUPPLY	PRICE	520	16x14	WHITE	SEE PLANS FOR AIRFLOW						
R1	RETURN	PRICE	530	AS INDICATED	WHITE							
L1	OA / EX	PRICE	EFD-445	AS INDICATED	SEE NOTES	PAINT TO MATCH BUILDING						
NOTES: 1.	VERIFY AIR I	DEVICE FINISHES WITH C	WNER/ARCHITEC	Γ PRIOR TO INSTA	LLATION							

- TURNING VANES (TYP.)

	HEATING	CAPACITY				PHYS	SICAL	
MODEL R EQUAL)	LOW (KBTU)	HIGH (KBTU)	VOLT/PH	МСА	ОСР	DIM.	WEIGHT	NOTES
PT-N-80-A	60	80	120/1	7.5	20-1	60'	112	1

	NUMBE PE-201501	M PR 7071 22 ENGL March 26, 2024
	J-SQUA E N G I N E E 2400 Bluff Creek Driv Columbia, Missour 573 - 234 - 4492 www.j-squareden	RING e, Suite 101 i 65201 phone
	J2 DESIGN:	JAP
	ISSUE TITLE	DATE
	DD SET 100% CD	01 - 19 - 2024 02 - 09 - 2024
	BID SET	03 - 01 - 2024
1	ADDENDUM #1	03 - 26 - 2024
	Mechanical - Electrical - Plumbing Design Drawings for CP241191 South Farm Creed Barn Remodel	5151 Old Millers Road Columbia, Boone County, MO 65201
	SHEET TITLE HVAC DETA SCHEDUI	

**M50** 

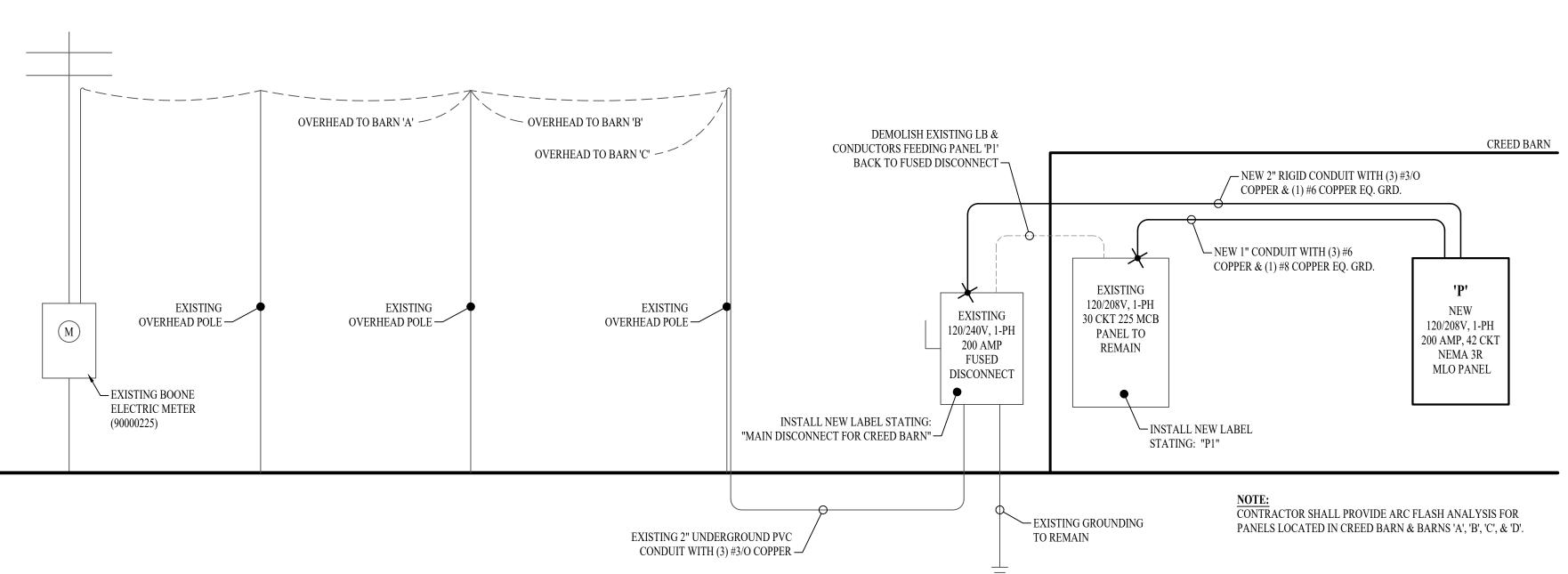
## ELECTRICAL SPECIFICATIONS

2.2.1.

1. GEN	ERAL
1.1.	THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH
	CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
1.2.	PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULE FOR EACH PANEL.
1.3.	ALL WIRING MUST BE DONE IN ACCORDANCE WITH MU PLANNING, DESIGN &
	CONSTRUCTION GUIDELINES.
2. MAT	TERIALS
2.1.	CONDUIT & CONDUCTORS
2.1.1.	ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED
	OTHERWISE.
2.1.2.	
2.1.3.	
	CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10.
	ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR
	LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS
	REQUIRED BY NEC.
2.1.4.	ALL WIRING SHALL BE RUN IN MINIMUM $3\!\!\!\!/$ " EMT CONDUIT. CONTRACTOR MAY USE MC
	FOR LIGHTING WHIPS THAT ARE 5' OR LESS.
2.1.5.	DATA JUNCTION BOXES MAY NOT BE DAISY CHAINED.
2.1.6.	CONDUIT FOR DATA SHALL BE MINIMUM $1\frac{1}{4}$ " EMT.
2.2.	DEVICES
2.2.1.	CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED

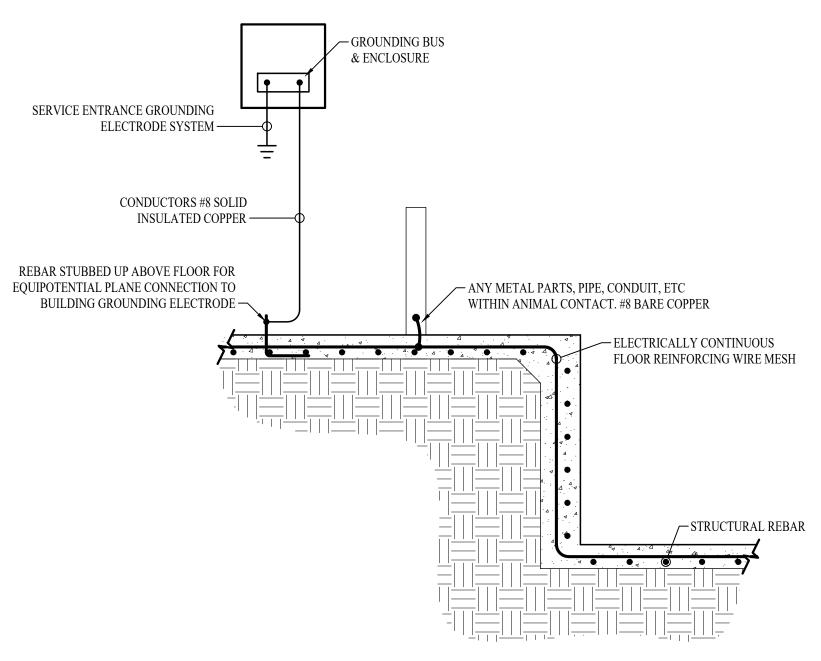
TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.

DUPLEX RECEPTACLES SHALL BE COMMERCIAL GRADE, 20 AMP.



ELECTRIC RISER

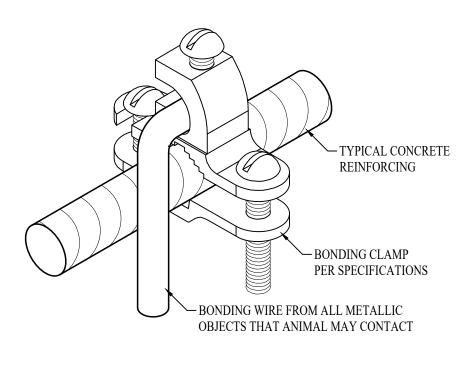
- AGRICULTURAL EQUIPOTENTIAL PLANE BONDING & GROUND GENERAL NOTES: . BUILDING SHALL BE PROVIDED WITH AN EQUIPOTENTIAL PLANE & ALL REQUIRED BONDING FOR ANIMAL CONFINEMENT AREAS WITHIN BUILDING. EQUIPOTENTIAL PLANE SHALL MEET ALL REQUIREMENTS AS DICTATED IN NEC ARTICLE 547.
- 2. EMBEDDED IN CONCRETE REINFORCING WIRE MESH NO SMALLER THAN #10 GAUGE FORMING A CONTINUOUS GRID. THE GRID COVERAGE SHALL ENCOMPASS ALL STRUCTURAL CONCRETE FOR THE NEW ADDITION. REFERENCE STRUCTURAL DRAWINGS / SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3. SYSTEM OF REINFORCEMENT SHALL BE ELECTRICALLY CONTINUOUS. TWISTED STEEL TIE WIRE CONNECTING ALL WIRE MESH SHALL BE USED TO BOND ALL COMPONENTS OF THE GRID TOGETHER IN THE CONCRETE. TIE WIRES SHALL BE MADE TIGHT & SHALL BE INSPECTED TO BE AS SUCH PRIOR TO CONCRETE POUR.
- 4. THE REINFORCING & STEEL TIE WIRE SHALL BE BY CONCRETE CONTRACTOR. 5. TIE WIRES SHALL ONLY BE USED TO BOND THE WIRE MESH GRID TOGETHER & SHALL NOT BE USED TO BOND OTHER METAL COMPONENTS.
- 6. ELECTRICAL CONTRACTOR SHALL BOND ALL OTHER METAL COMPONENTS IN WHICH ANIMALS MAY COME IN CONTACT WITH, INCLUDING BUT NOT LIMITED TO, METALLIC PIPING, METAL GRATES, STALLS, GATES & ASSOCIATED SUPPORTS USING MINIMUM #8 SOLID COPPER CONDUCTOR BACK TO THE REINFORCING IN THE CONCRETE. BONDS SHALL BE BY PRESSURE CONNECTORS OR BRASS OR COPPER CLAMPS OR EQUALLY SUBSTANTIAL APPROVED METHOD. IT IS IMPORTANT THAT THE EQUIPOTENTIAL GROUNDING SYSTEM BE INSPECTED ONCE THESE BONDS ARE MADE, BUT BEFORE THE CONCRETE IS POURED.
- 7. ALL METAL COMPONENTS IN THE BUILDING THAT THE ANIMAL COULD COME IN CONTACT WITH INCLUDING THE REINFORCING IN THE CONCRETE SLAB SHALL BE ELECTRICALLY CONTINUOUS & CONNECTED BACK TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM.
- 8. A PIECE OF STRUCTURAL REBAR SHALL BE EXPOSED UP THROUGH THE SLAB AT THE ELECTRICAL SERVICE ENTRANCE FOR BONDING BETWEEN EQUIPOTENTIAL PLANE SYSTEM & BUILDING GROUNDING ELECTRODE SYSTEM AT SERVICE ENTRANCE. THE EXACT LOCATION IN WHICH REBAR IS TO BE STUBBED UP SHALL BE FULLY COORDINATED BETWEEN ELECTRICAL CONTRACTOR & CONCRETE CONTRACTOR.



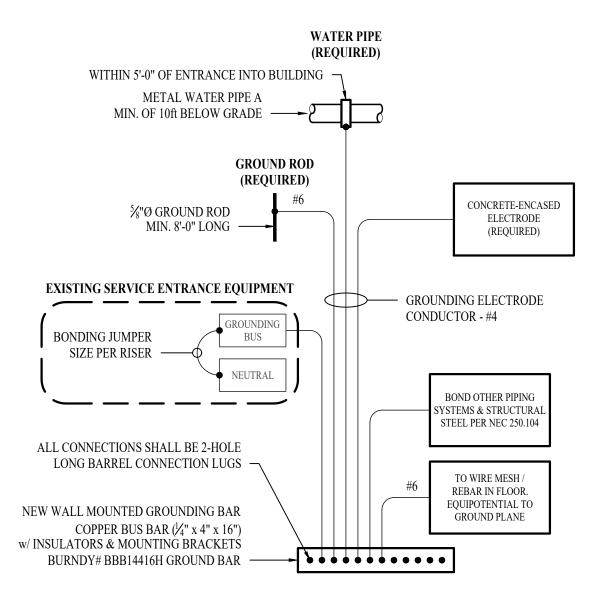
AGRICULTURAL EQUIPOTENTIAL PLANE GROUNDING DETAIL

	LIGHT FIXTURE SCHEDULE									
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
H1	METALUX	VHB-1215-W-UNV-L850-CD-U-LEVEL1	LED HIGH BAY	CHAIN	12579	5000	80	120	80	MOUNTED AT 13' A.F.F.
S1	METALUX	4SNX-74HL-UNV-L835-CD1	4' LED STRIPLIGHT	CEILING	8391	3500	80	120	52	WITH SNX-LENS-LC-4FT-U & DECOEND-RND PK
X1	SURE LITES	UX7-1-SD	INTERIOR EXIT LIGHT	CEILING	-	-	-	120	1	WITH RED LETTERS
X2	SURE LITES	SELDW-TA 50SD	EMERGENCY EGRESS LIGHT	WALL	-	-	-	120	1	
X3	SURE LITES	APCH7R	INTERIOR EXIT LIGHT WITH HEADS	WALL / CEILING	8	-	-	120	1	WITH RED LETTERS
NOTES: 1.	VERIFY LIGHT FIXTURE I	FINISHES WITH OWNER / ARCHITECT PRIO	R TO INSTALLATION							

	PANEL 'P' SCHEDULE										
	VOLTAGE	PANEL	SIZE	MOU	NTING	AIC RATING					
	100/20037						PHASE "A" LOAD	139			
	120/208V	200 AM	P MLO	SURFACE		22,000	PHASE "B" LOAD	142.5			
	NEMA RATING: 3R					I F					
CIRCUIT NUMBER	DES CRIPTION	BREAKER SIZE	AMPS	PHASE	AMPS	BREAKER SIZE	DES CRIPTION	CIRCUIT NUMBER			
1	CATTLE TREATMENT OUTLETS	20-1	6	A	1.5	20-1	CATTLE TREATMENT CORD REEL	2			
3	CATTLE TREATMENT CORD REEL	20-1	1.5	В	6	20-1	CATTLE TREATMENT & TVOUTLETS	4			
5	STORAGE COUNTER OUTLETS	20-1	4.5	А	7	20-1	REFRIGERATOR	6			
7	CATTLE STAGING CORD REEL	20-1	1.5	В	1.5	20-1	CATTLE STAGING CORD REEL	8			
9	SPARE	20-1		A	1.5	20-1	CATTLE STAGING CORD REEL	10			
11	CATTLE STAGING OUTLETS	20-1	4.5	В	7.5	20-1	SOUTH TUBE HEATER	12			
13	NORTH TUBE HEATER	20-1	7.5	A	25	50-2	CHUTE PUMP	14			
15	CONDENSING UNIT (CU-1)	20-2	12	В	25	-	-	16			
17	-	-	12	А	6.5	20-2	WATER HEATER (WH-1)	18			
19	AIR HANDLING UNIT (AHU-1)	25-2	24	В	6.5	-	-	20			
21	-		24	А	7	20-1	CATTLE TREATMENT LIGHTING	22			
23	EXHAUST FAN (EF-1)	20-2	12	В	7	20-1	CATTLE STAGING LIGHTING	24			
25	-	-	12	A	1	20-1	STORAGE LIGHTING	26			
27	PRESSURE WASHER	20-1	10	1 B		20-1	SPARE	28			
29	GARAGE DOOR OPENER	20-1	3.5	A		20-1	SPARE	30			
31	GARAGE DOOR OPENER	20-1	3.5	В		20-1	SPARE	32			
33	SPARE	20-1		A				34			
35	SPARE	20-1		В				36			
37	EXISTING PANEL 'P1'	50-2	20	А				38			
39	-	-	20	В				40			
41				A				42			
NO TES: A: B: C:	PANEL SHALL BE EQUAL TO SQUARE D MODEL "QO ELECTRICIAN SHALL VERIFY BREAKER WITH EQUI AFTER COMPLETION OF WORK, ELECTRICAN SHALL	PMENT PRIOR I				IN NEW PANEI					



**REBAR BONDING CLAMP DETAIL** 



**TYPICAL GROUNDING & BONDING DETAIL** 

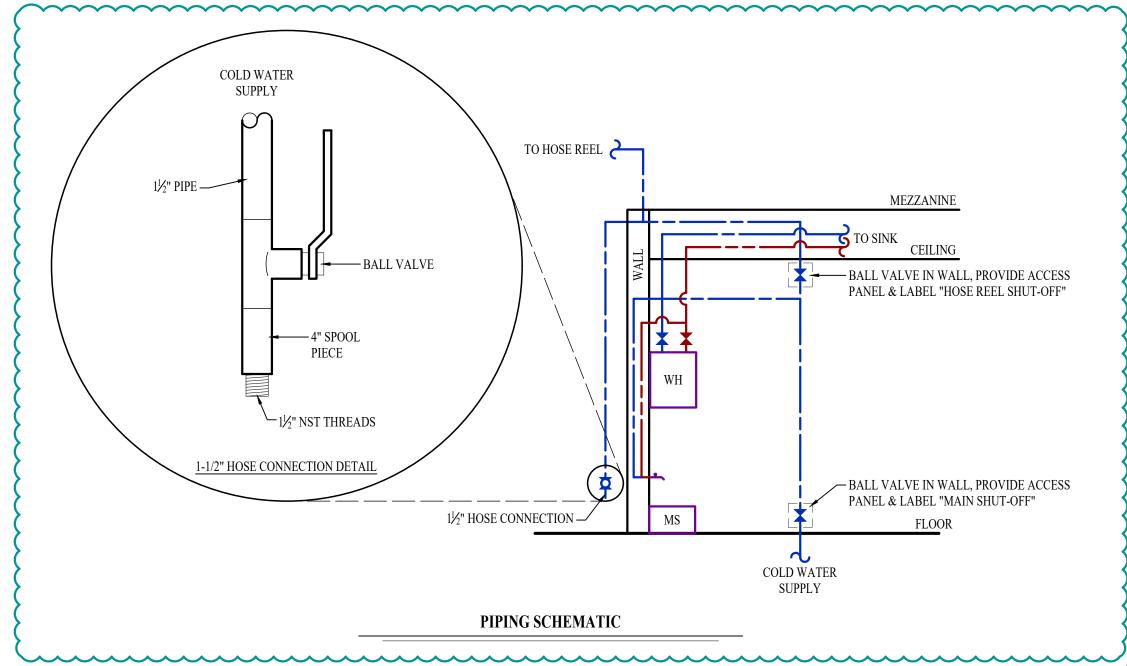
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STATE OF M JAMES WATSC	
NUMBI PE-201501	ER 7071
James Watson, P.E.	ENCIER ENCIER March 26 2024
PE-2015017071 MO Certificate of Authorit	March 26, 2024 y # 2018029680
J-SQUA	RED
ENGINEE 2400 Bluff Creek Driv	e, Suite 101
Columbia, Missour 573 - 234 - 4492 www.j-squareden	phone
J2 PROJECT No: J2 DESIGN:	J21143 JAP
ISSUE TITLE	DATE
DD SET	01 - 19 - 2024
100% CD BID SET	02 - 09 - 2024
ADDENDUM #1	03 - 26 - 2024
Mechanical - Electrical - Plumbing Design Drawings for CP241191 South Farm Creed Barn Remod	5151 Old Millers Road Columbia, Boone County, MO 65201
SHEET TITLE	
ELECTRICAL	огтан с
& SCHEDU	
sheet number <b>E50</b>	1

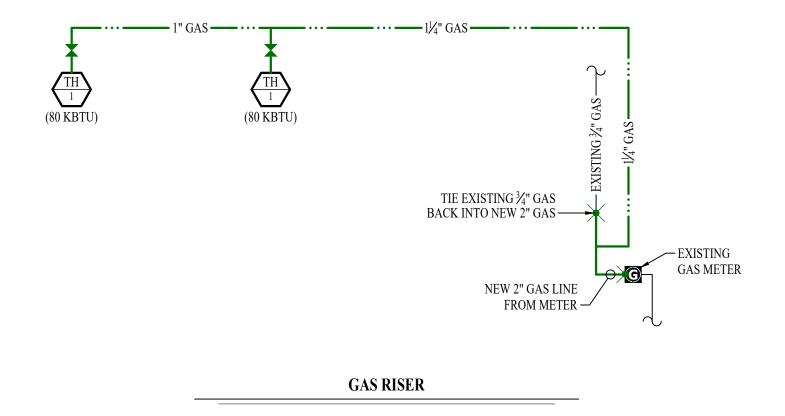
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## PLUMBING SPECIFICATIONS

## 1. GENERAL

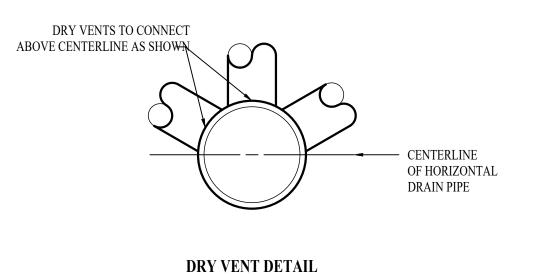
- 1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, 1/4 TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
- 2. SANITARY
- 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH. 40 PVC DWV.
- 2.2. NO PIPE SMALLER THAN 2" BELOW GRADE. WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON. 2.3.
- ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE 2.4. MECHANICAL AIR INTAKE LOCATIONS.
- 3. DOMESTIC WATER 3.1. DOMESTIC WATER PIPING TO BE COPPER.
- 3.2. COPPER WATER PIPING BELOW GRADE SHALL BE CTS POLY. THERE SHALL BE NO JOINTS IN
- WATER PIPING LOCATED BENEATH BUILDING SLAB.
- 3.3. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L". 3.4. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH
- VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.
- 3.5. DOMESTIC WATER PIPING INSULATION
- 3.5.1. ALL HW PIPING SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN 11/2", INSULATION THICKNESS TO BE 1". FOR PIPING  $1\frac{1}{2}$ " OR GREATER, INSULATION THICKNESS SHALL BE  $1\frac{1}{2}$ ".
- 3.5.2. CW COPPER PIPING TO INSULATED WITH ½" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION.

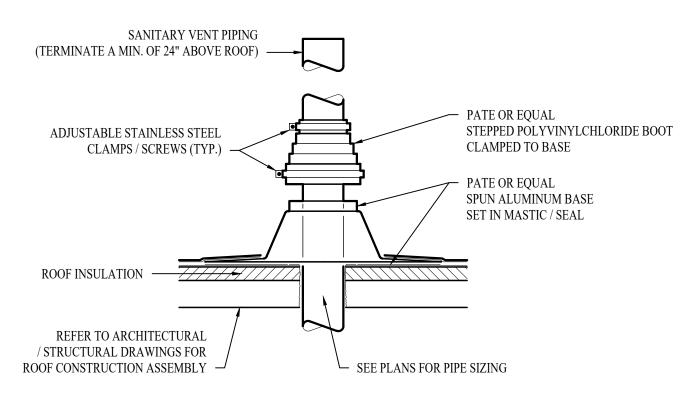




	PLUMBING FIXTURE SCHEDULE											
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES								
FCO	FLOOR CLEAN OUT	ZURN	Z1400									
FD	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL								
MS	MOP SINK	FIAT	MSB2424	WITH ZURN Z843M1 FAUCET WITH WALL HOOK								
SK	SINGLE COMPARTMENT SINK (22x19x7)	ELKAY	LR2219	WITH TWO HANDLED ZURN Z871C4-XL FAUCET								
WH1	WATER HEATER	RUUD	EGSP20	20 GALLON, 240V, 1500W								
YCO	YARD CLEAN OUT	ZURN	Z1400									
NOTES: 1.												

FIXTURE		SANITARY PIPING		SUPPLY PIPING	
ТҮРЕ	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-
NOTES:					
1. SIZES SHOWN ABOVE ARE TYPI	CALLINI ESS NOTED	OTHEDWISE ON D	T A NIS		



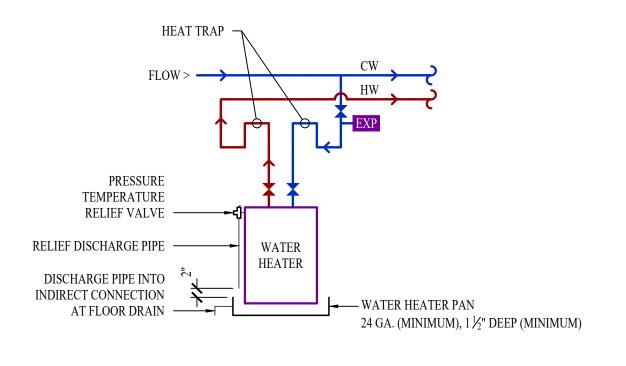


SANITARY VENT THRU ROOF DETAIL

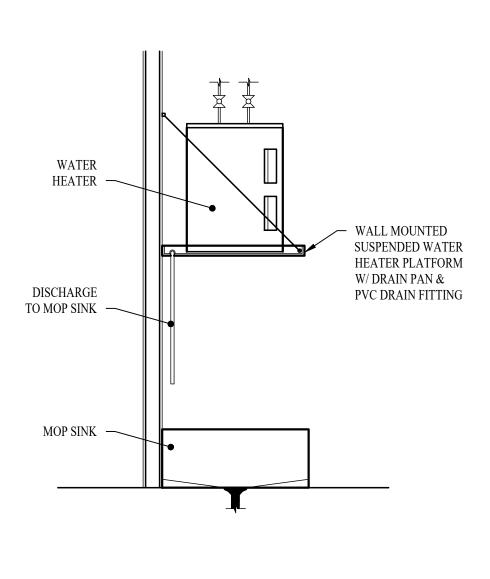
BALL VALVE IN WALL, PROVIDE ACCESS PANEL & LABEL "HOSE REEL SHUT-OFF" BALL VALVE IN WALL, PROVIDE ACCESS

PANEL & LABEL "MAIN SHUT-OFF" FLOOR

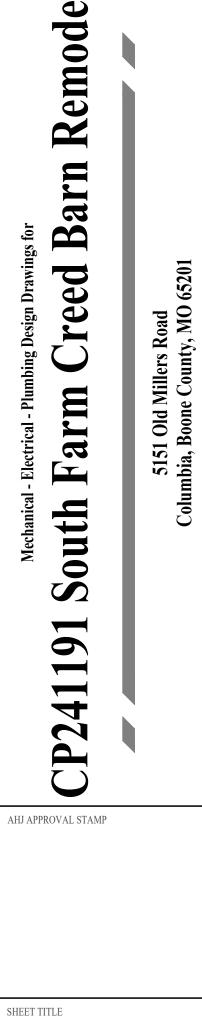




WATER HEATER DETAIL



SUSPENDED WATER HEATER DETAIL



PLUMBING DETAILS & SCHEDULES

SHEET NUMBER

