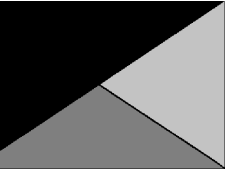




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**CHICK-FIL-A**  
**HWY 280 AT CRAWFORD**  
**RD** 1132 US Highway 280/431  
Phenix City, AL 36867

**FSR#05616**

BUILDING TYPE / SIZE: P14 LE BN

RELEASE: 23.11

PRINTED FOR:

CONSTRUCTION

REVISION SCHEDULE

NO. DATE DESCRIPTION

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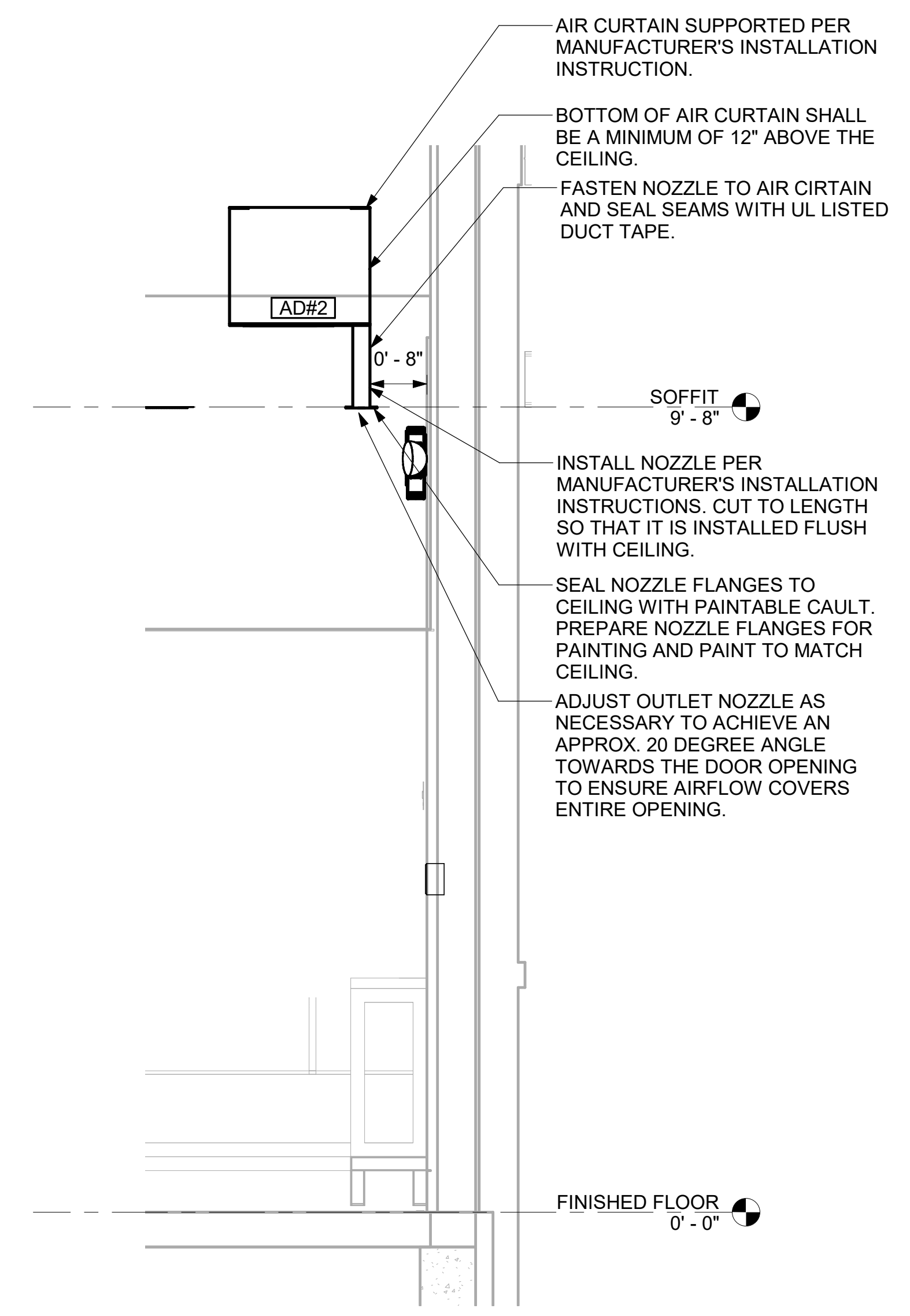
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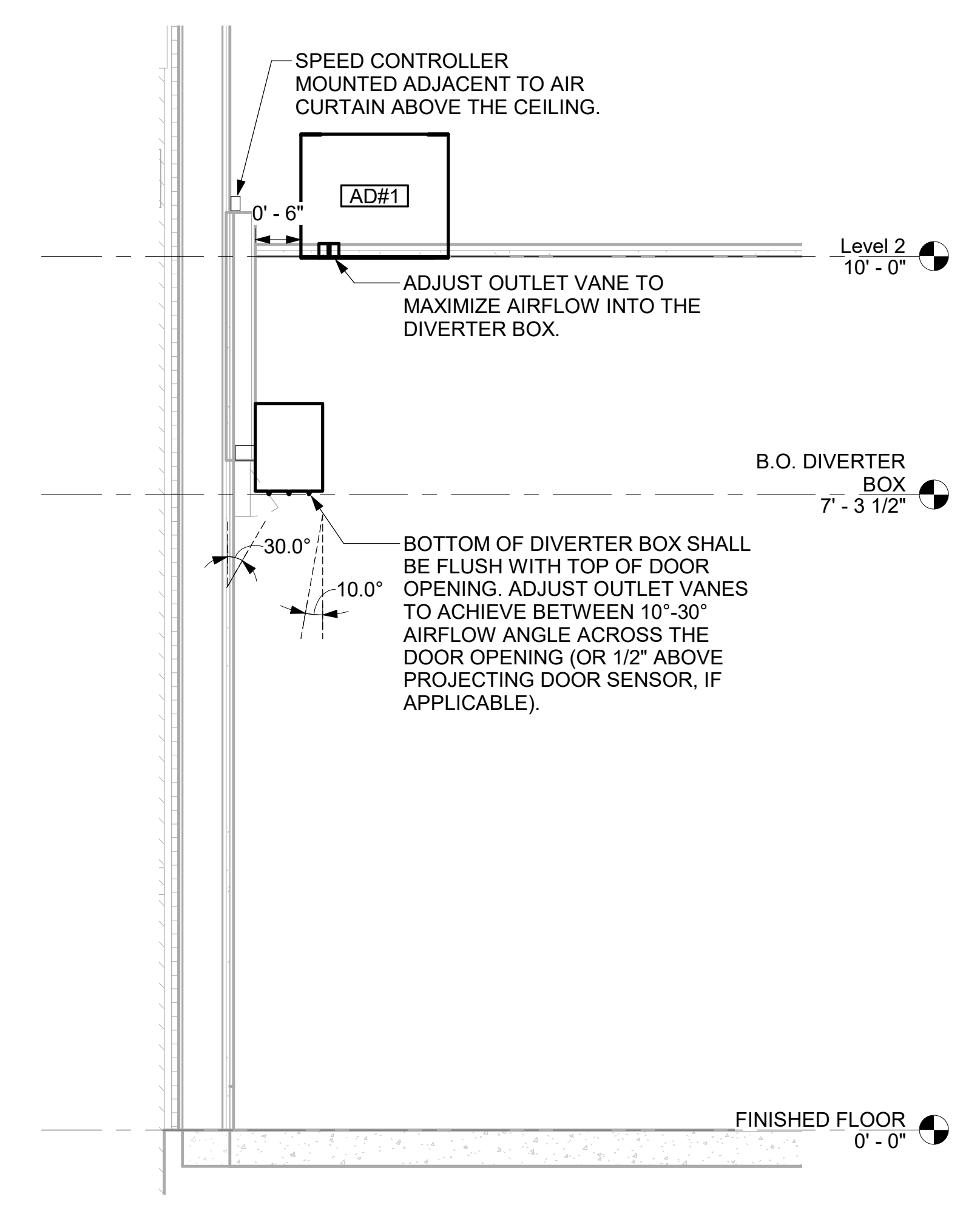
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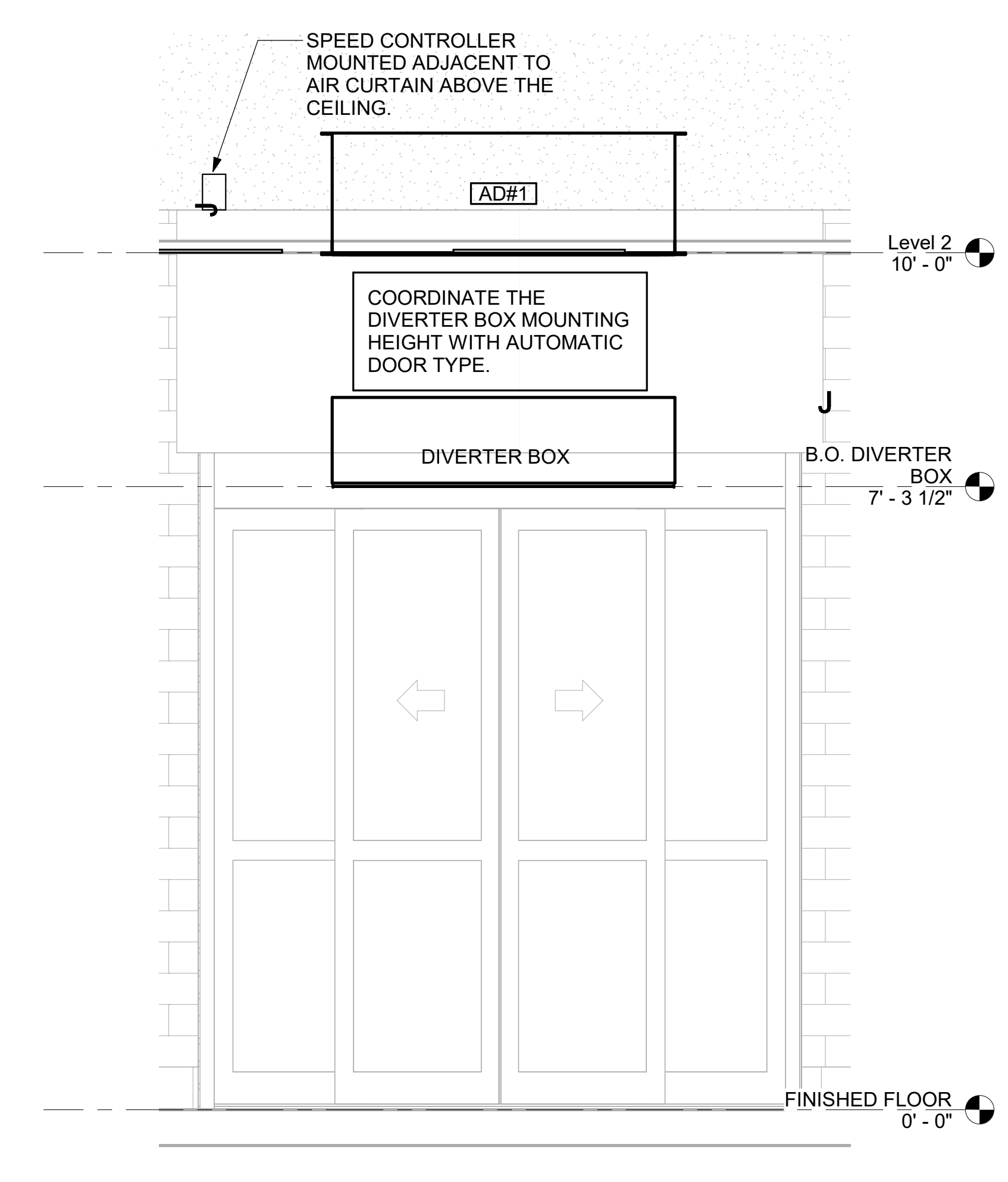
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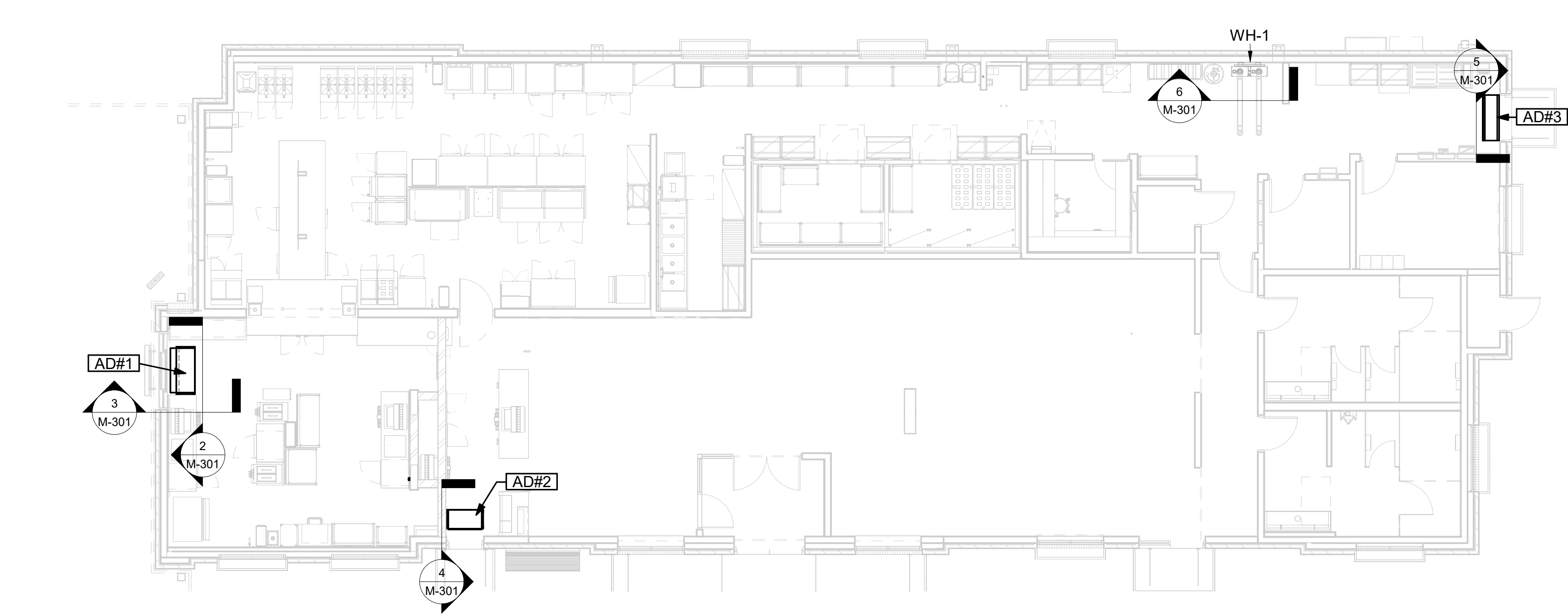
4 AD#2 SIDE VIEW  
3/4" = 1'-0"



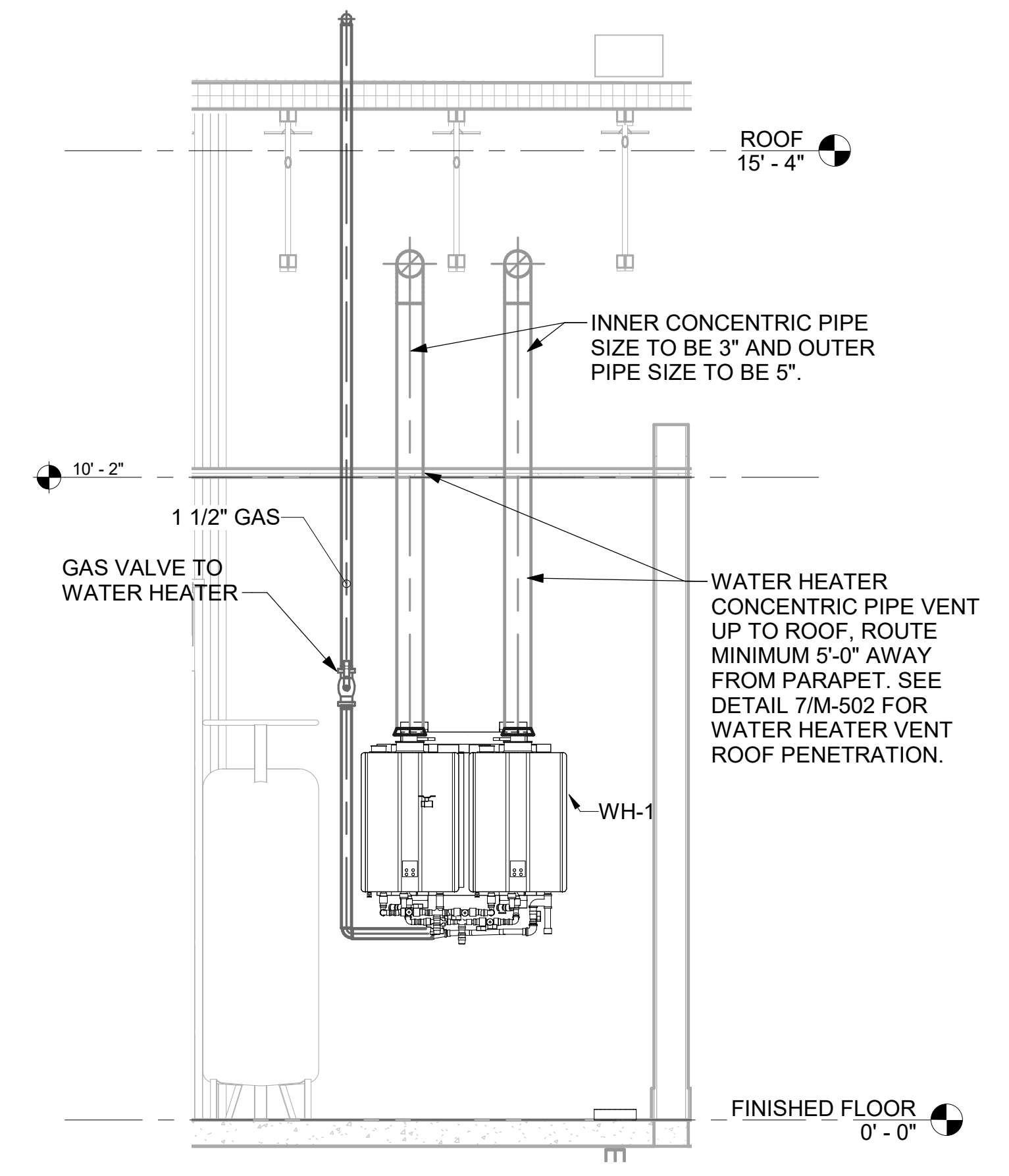
3 AD#1 SIDE VIEW  
3/4" = 1'-0"



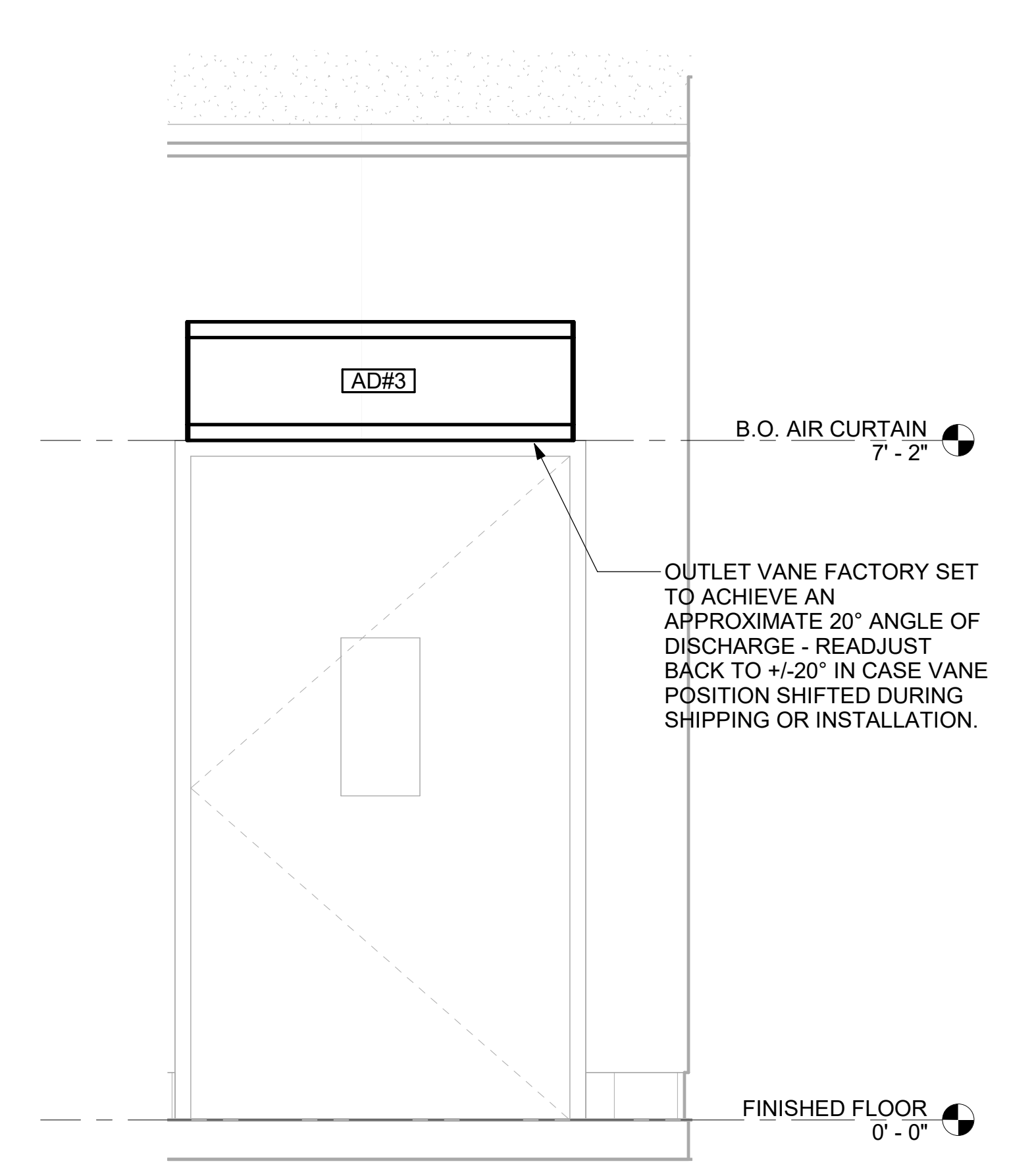
2 AD#1 FRONT VIEW  
3/4" = 1'-0"



1 VARIOUS SECTIONS  
1/8" = 1'-0"



6 WATER HEATER GAS PIPING AND VENTING  
NOT TO SCALE



5 AD#3 FRONT VIEW  
3/4" = 1'-0"

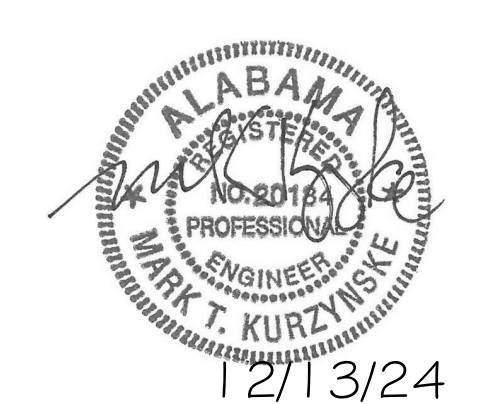
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SHEET NUMBER  
**M-301**



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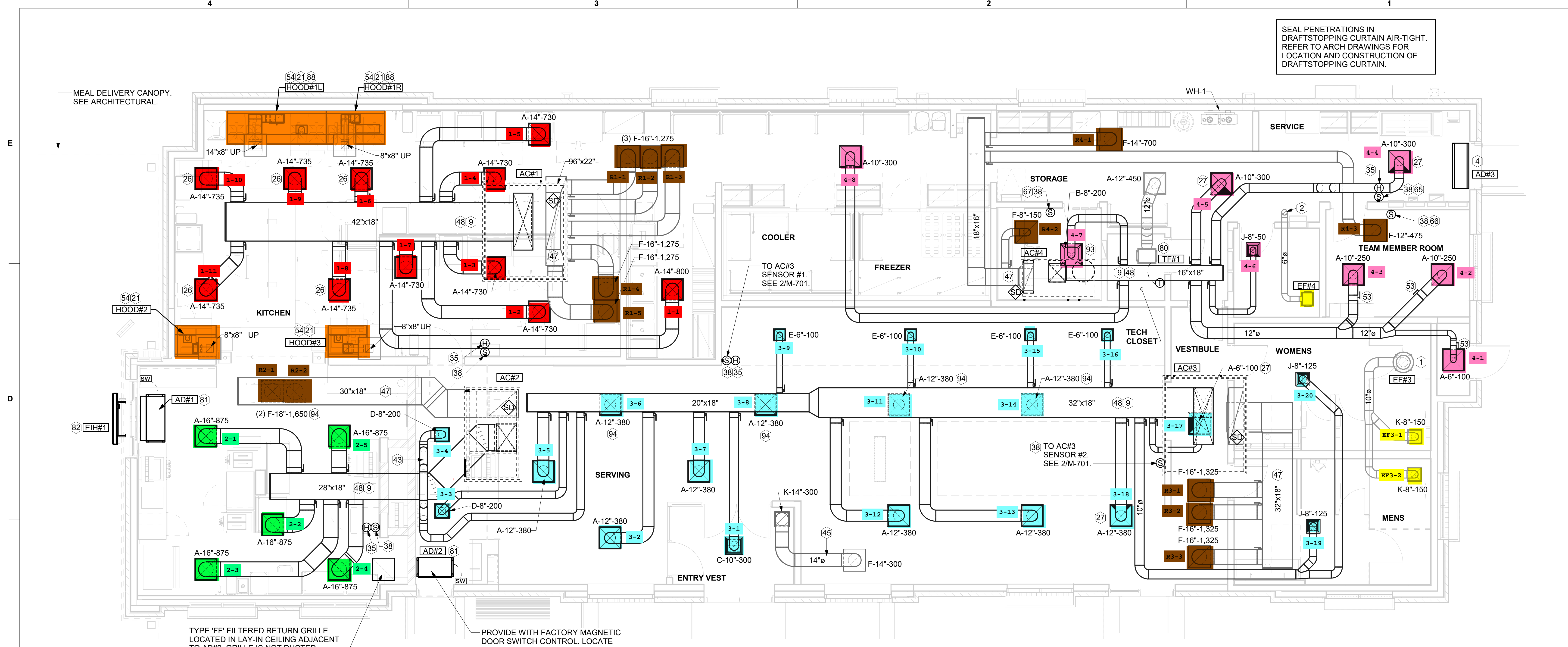
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SHEET: EQUIPMENT AND DUCTWORK PLAN - LENNOX  
 SHEET NUMBER

**M-101**

SEAL PENETRATIONS IN DRAFTSTOPPING CURTAIN AIR-TIGHT. REFER TO ARCH DRAWINGS FOR LOCATION AND CONSTRUCTION OF DRAFTSTOPPING CURTAIN.



**1 EQUIPMENT AND DUCTWORK PLAN**  
 1/4" = 1'-0"

Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,125	6,375	1,750	0	
AC#2	4,375	3,300	1,075	0	
AC#3	5,250	3,975	1,275	0	
AC#4	1,750	1,325	425	0	
EF#1	0	0	0	1,913	
EF#2	0	0	0	1,402	
EF#3	0	0	0	300	
EF#4	0	0	0	75	
	19,500	14,975	4,525	3,690	835

**H.E.S. SYSTEM**  
 MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.

**KEY NOTES**

- 10" DIA. DUCT UP THRU ROOF.
- PROVIDE DUCT AS SHOWN. TERMINATE DUCT 24" ABOVE ROOF WITH ALUMINUM WEATHER CAP WITH INTEGRAL BIRD SCREEN. EXHAUST DUCT DISCHARGE SHALL BE LOCATED A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
- AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS. LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
- ROUTE DUCT WITHIN STRUCTURE.
- TRANSFER AIR DUCT. NO BALANCING DAMPERS AT GRILLES.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 5/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
- SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
- TO AC#4, SENSOR #1. SEE 2/M-701.
- TO AC#4, SENSOR #2. SEE 2/M-701.
- TO AC#4, SENSOR #3. SEE 2/M-701.
- CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE TO TYPE 'A' DIFFUSER AS SHOWN.
- MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
- ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- PULL STATION FOR KITCHEN EXHAUST HOOD MOUNTED 42" TO 48" A.F.F. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. JUNCTION BOX AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE PLASTIC ENGRAVED LABEL - RED WITH 1" HIGH WHITE LETTERING. LABELS SHALL BE AS FOLLOWS: HOOD #1 - "MAIN COOKLINE", HOOD #2 - "PASS THRU - RIGHT", HOOD #3 - "PASS THRU - LEFT".
- MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.
- TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.

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 30-LE-05616-M-101-EQUIPMENT AND DUCTWORK PLAN - LENNOX

ROOFTOP UNIT SCHEDULE - LENNOX

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY (CFM)	OA (CFM)	HP	ESP (in-wg)	EER	IEER/SEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
AC#1	278.3	210.5	480	389	8,125	1,750	7.5	0.8	10.3	14.5	208	3	135	150	LGT300S4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#2	139.2	101.4	240	194	4,375	1,075	3.75	0.8	10.8	14.6	208	3	64	80	LGT150H4E	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#3	174.7	131.7	480	389	5,250	1,275	5	0.8	12	15	208	3	76	90	LGT180H4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#4	60.1	44.8	150	121	1,750	425	1.5	0.8	12.7	17.1	208	3	25	35	LGT060H4E	LENNOX	2,3,4,5,6,7,8,9,10,11,12,13,14,15

NOTES

- MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
- DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
- 14" HIGH ROOF CURB.
- SEE DETAIL 2/M-701 FOR SETTING OF CONTROL PARAMETERS BY MC.
- FACTORY INSTALLED 115V O/FI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR.
- FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
- FACTORY INSTALLED NON-FUSED DISCONNECT.
- 2" MERV 8 THROW AWAY FILTERS.
- HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
- FACTORY INSTALLED COIL HAIL GUARD.
- PROVIDE HIGH FAULT SCOR (100K).
- HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
- FACTORY PROVIDED, FIELD INSTALLED BELT TENSIONER.
- FACTORY CONFIGURED PHASE LOSS PROTECTION.
- FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	37"	38"	HALTON	KVL-2 IC	1
HOOD#1R	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	37"	38"	HALTON	KVL-2 IC	1
HOOD#2	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	45"	34"	38"	HALTON	KVL-C IC	1
HOOD#3	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C IC	1

NOTES

DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- REFER TO HOOD SHOP DRAWINGS FOR HOOD CONSTRUCTION AND OPTIONS. PRELIMINARY HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEETS MH-1.1, MH-1.2, AND MH-1.3.

HEATER SCHEDULE

MARK	HEATING INPUT		FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
	ELECTRIC (KW)	GAS (MBH)											
EIH#1	6.00	0.0	56"	8.5"	3.5"	WALL BRACKET	208	1	28.9	40	BH0420035	BROMIC	1,2,3,4
IRH	0.00	50.0	48"	13.4"	9.8"	BRACKET	120	1	0.4	20	WB50-N7-CM	SPACE-RAY	5,6,7

NOTES

- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.

REMARKS

- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
- PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
- PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES.
- STEEL BURNER WITH CERAMIC BURNER TILES.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" Laterally FROM THE LONG SIDE OF THE HEATER.
- STAINLESS STEEL HEAT SHIELDS.

FAN SCHEDULE

MARK	FAN CFM	ESP (in-wg)	MOTOR RPM	HP	AREA SERVED	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
CF#1	1,900	0.010	1,625	0.100	OUTDOOR CANOPY	120	1	1.1	20	U-18-TE-HD	TPI	20,21,24
EF#1	1,913	0.750	1,331	0.750	HOOD#1	115	1	13.8	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#2	1,402	0.950	1,199	0.750	HOOD#2 & HOOD#3	115	1	13.8	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#3	300	0.375	1,550	0.125	RESTROOMS	120	1	2.2	20	XRED-095-VG	ACCUREX	1,3,11,12,13,14,15,16
EF#4	75	0.260	1,550	0.020	RESTROOMS	120	1	0.2	20	SP-A90	GREENHECK	1,22,23
TF#1	450	0.300	1,144	0.127	TECH CLOSET	120	1	2.5	20	SP-A510-VG	GREENHECK	1,17, 18, 19

NOTES

- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED.

REMARKS

- FANS SUPPLIED BY HALTON.
- U.L. 705 LISTED AND LABELED FOR RESTAURANT APPLICATIONS.
- FACTORY INSTALLED PREWIRED DISCONNECT SWITCH.
- 22" HIGH ROOF CURB.
- INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
- FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
- FACTORY DRAIN CONNECTION.
- FACTORY BOLTED ACCESS DOOR ON SCROLL.
- FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER.
- FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER.
- INTEGRAL THERMAL OVERLOAD.
- BIRDSCREEN.
- BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 3/M-501.
- STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
- 12" HIGH CURB.
- FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
- PROVIDE NEMA 1 PREWIRED DISCONNECT.
- INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
- PROVIDE THERMOSTAT THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WITH ON/OFF SWITCH.
- FAN SHALL BE CONTROLLED WITH THE ROOM LIGHTING. ALL WIRING IS BY THE ELECTRICAL CONTRACTOR.
- DIRECT DRIVE CEILING FAN. PROVIDE A DISCONNECT SWITCH, INTEGRAL BACKDRAFT DAMPER, AND MANUFACTURER'S FAN SPEED CONTROLLER.
- FAN SUPPLIED BY TOM BARROW OR POWERS OF ARKANSAS FOR SOUTHWEST REGION.

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY (FPM)	HEATING (KW)	MOTOR HP	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1,543	2,338	10	0.75	31.4	40	208	3	DRIVE THRU	CHA-1-48E	POWERED AIRE	1,2,3,5
AD#2	1,197	2,443	0	0.75	8	20	120	1	SERVING	ETA-1-36	POWERED AIRE	1,2,4,6
AD#3	3,867	4,218	0	0.75	8	20	120	1	REAR DOOR	RBT-1-48	POWERED AIRE	4

NOTES

- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS

- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED BY MC. REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M-702.
- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE WITH NOZZLE EXTENSION, SEE DETAIL 4/M-301.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING / KITCHEN	VARIES	24"x24"	LAY-IN	1,7
B	VARITHERM PLAQUE DIFFUSER	OFFICE	10"	24"x24"	LAY-IN	1,7,8
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	16"x16"	BEVELLED	1,3,5,6
D	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	SERVING	VARIES	16"x16"	SURFACE	1,3,5,6
E	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING	6"	12"x12"	SURFACE	1,3,5,6
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING / KITCHEN / MFA	24"x24"	24"x24"	LAY-IN	1,7,8
FF	PRICE MODEL 80FF STEEL FILTER RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND 2" FILTER FRAME.	MFA	24"x24"	24"x24"	LAY-IN	1,7,8
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	VARIES	10"x10"	BEVELLED	1,2,3,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS / ENTRY	14"x14"	16"x16"	SURFACE	1,2,5,6

NOTES

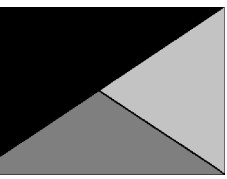
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS

- STANDARD OFF WHITE FINISH.
- PROVIDE MODEL VCS3 NECK DAMPER.
- SEE DRAWING M-101 FOR THROW.
- PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
- PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
- FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-501.
- FACTORY INSULATED R-6 BACKPAN.
- PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.



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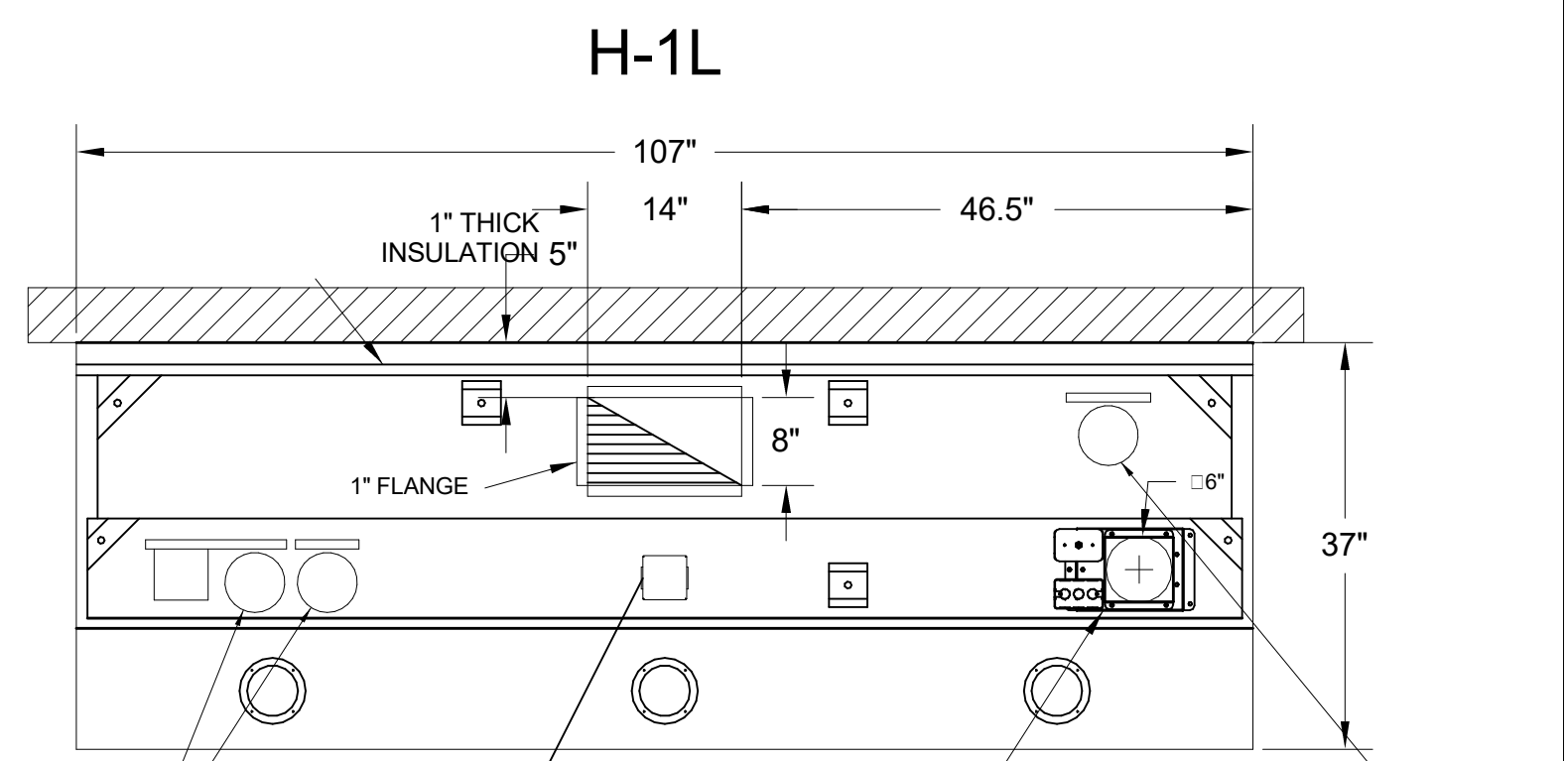
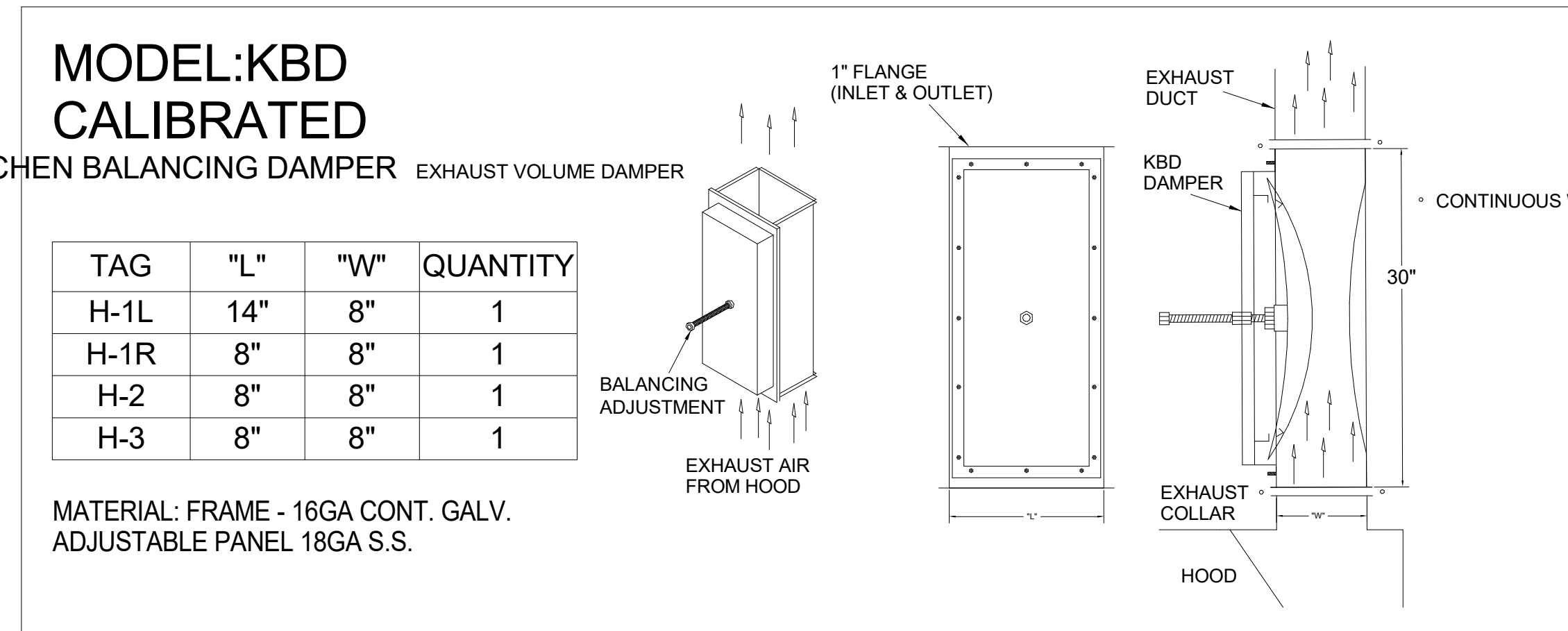
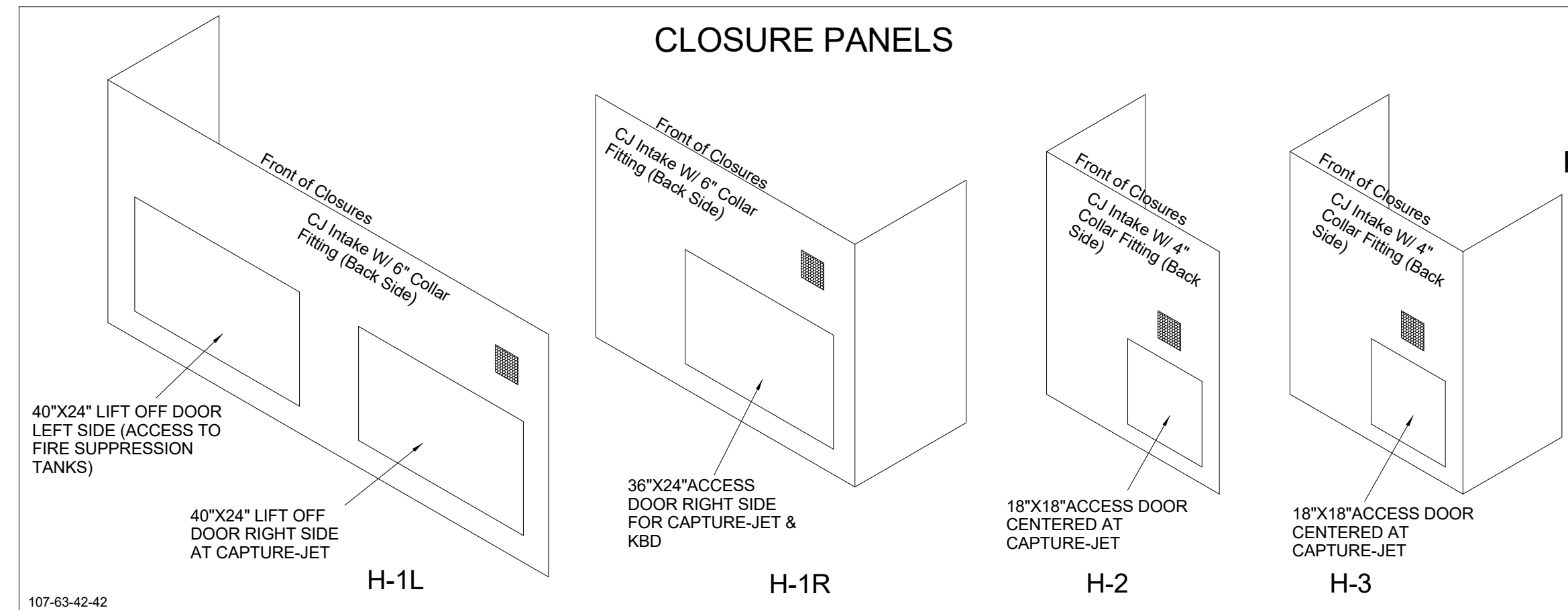
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EQUIPMENT SCHEDULES  
- LENNOX

SHEET NUMBER

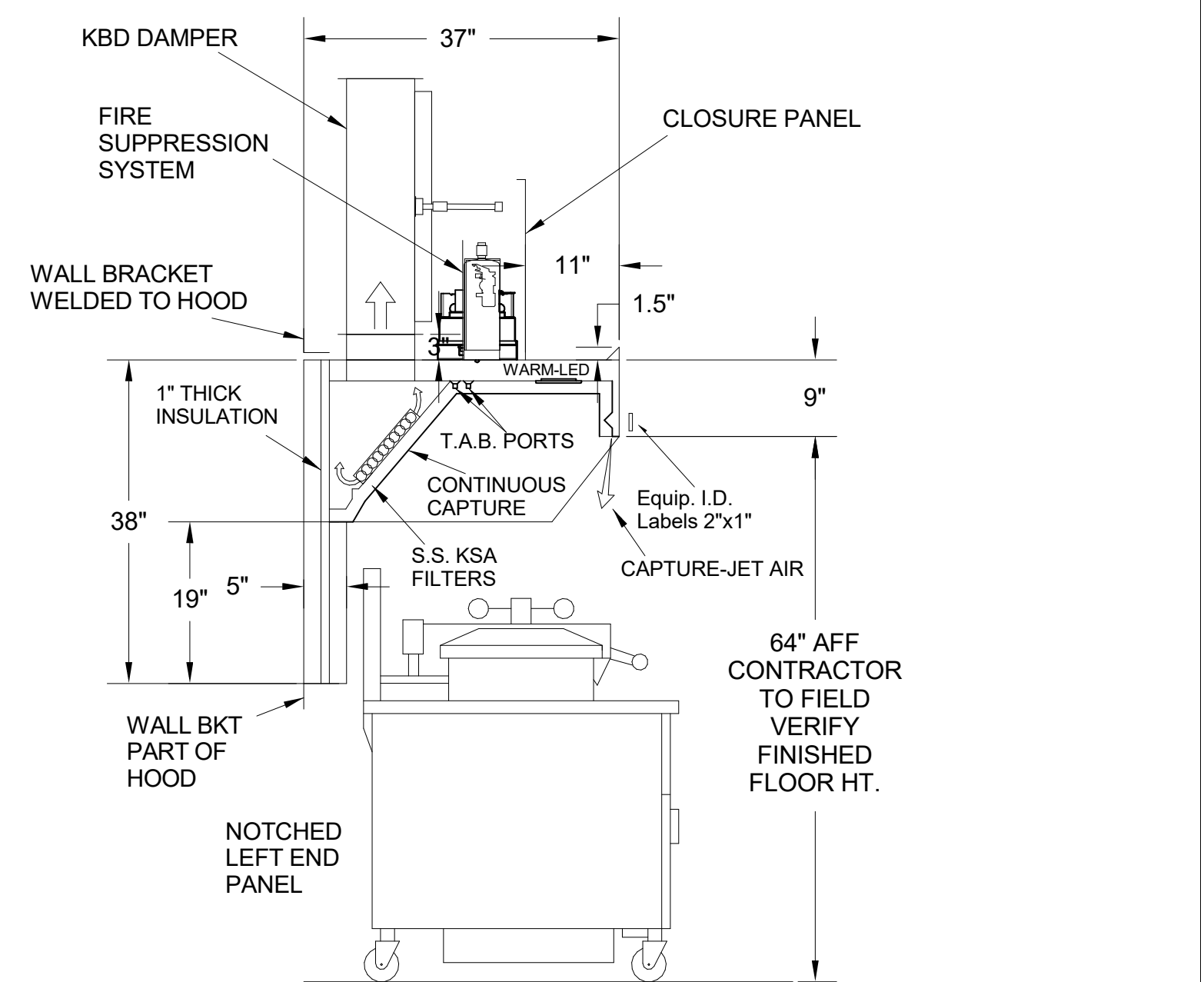
**M-601**

HOOD MODEL	HOOD NUMBER	EXHAUST COLLAR			EXHAUST AIR INFORMATION			CAPTURE AIR INFORMATION		S.S. KSA FILTERS		CEILING CLOSURES			KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL		
		QTY	LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF	LED LIGHTS	QTY	CLOSURE HEIGHT				CEILING HEIGHT	HOOD WEIGHT
KVL-2-IC	H-1L	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2	51"	122"	669 LBS	3365	EXPOSED SURFACES 18 GA. S.S.	
KVL-2-IC	H-1R	1	8"	8"	709	0.13"	0.23"	47	0.30"	3	-	2	2			394 LBS			
KVL-C-IC	H-2	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	2			245 LBS			1291
KVL-C-IC	H-3	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	3			245 LBS			1291

**FOR REFERENCE ONLY**



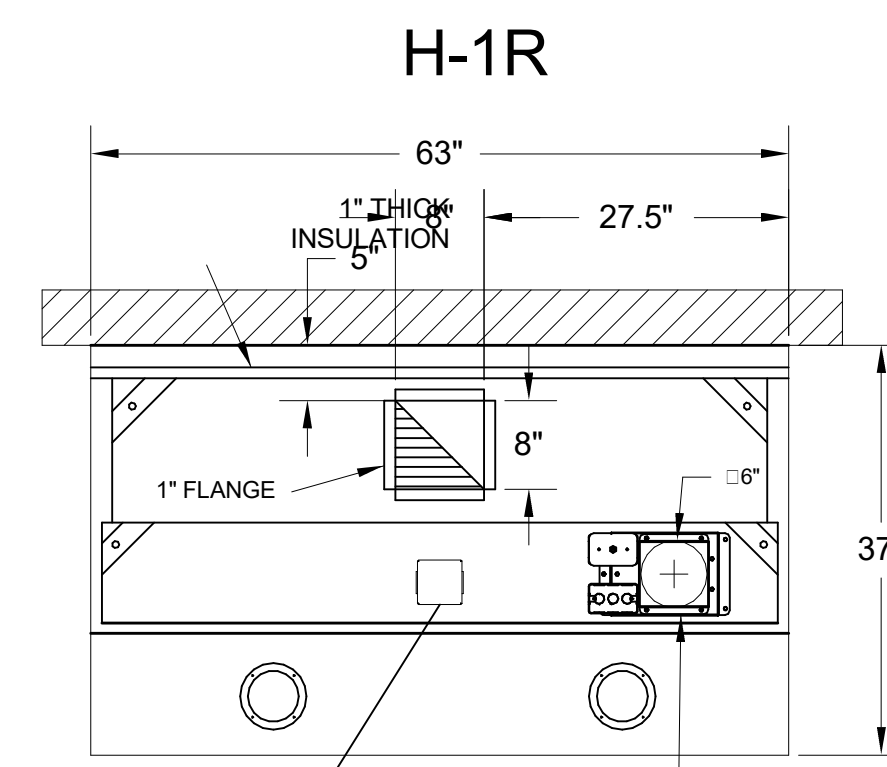
**H-1L PLAN VIEW**



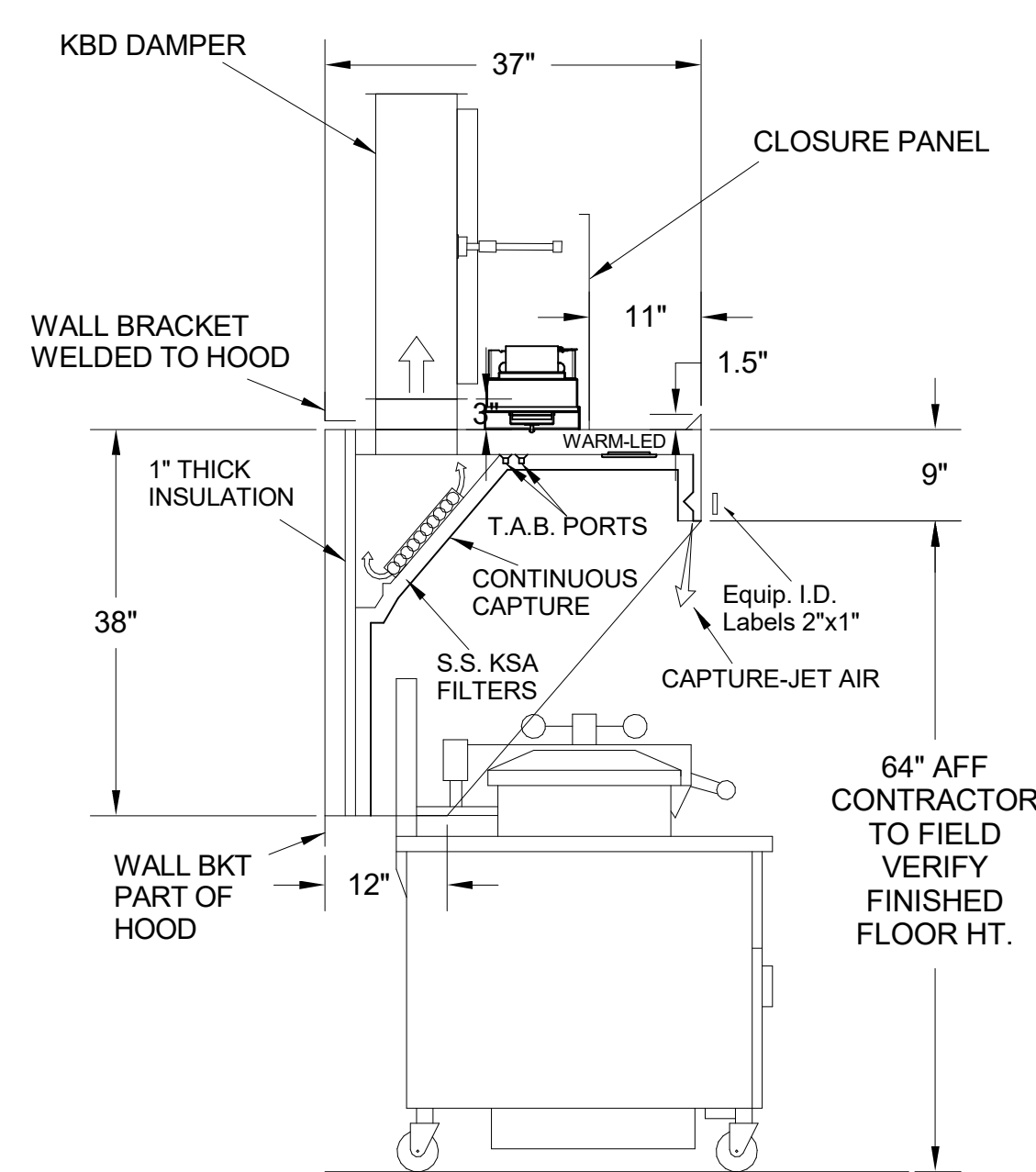
**H-1L SECTION VIEW**

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 40"X24" LIFT OUT DOOR LEFT SIDE (ACCESS TO FIRE SUPPRESSION)
- 40"X24" LIFT DOOR RIGHT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL
- EQUIPMENT COVERED:  
(4) PRESSURE FRYERS  
(2) GRILLS
- ANSUL WEIGHT = 286 LBS  
• AMEREX WEIGHT = 264 LBS

MODEL NO.	SERIAL NO.	ITEM NO.



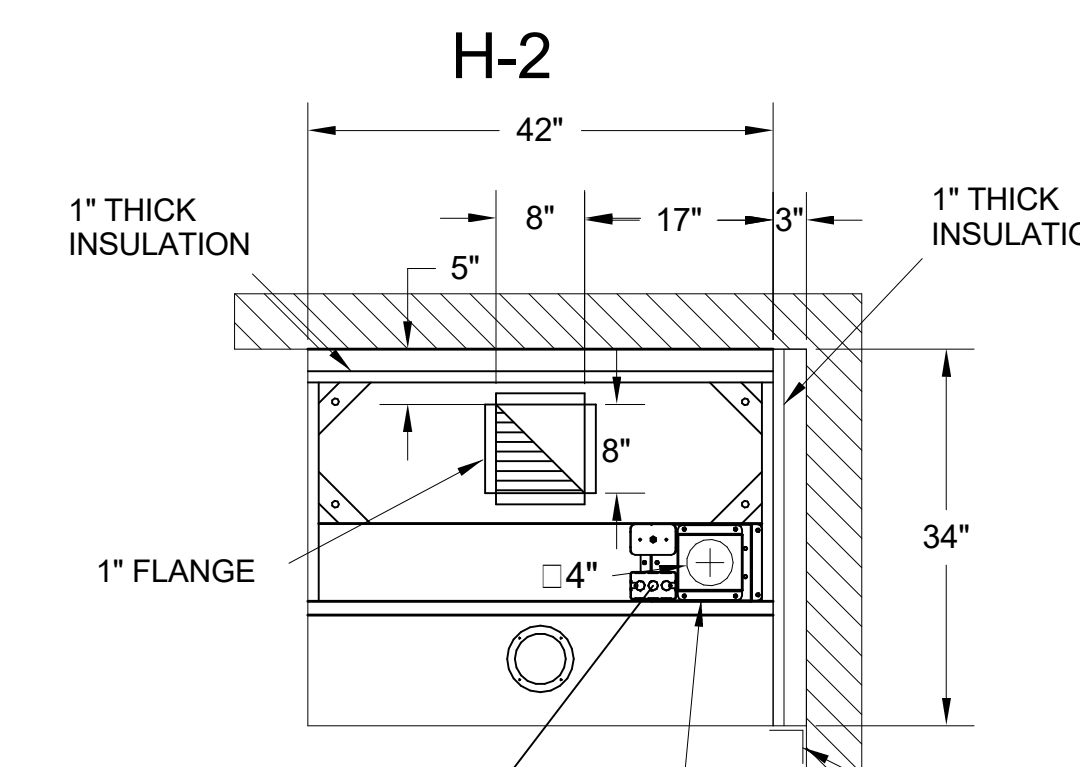
**H-1R PLAN VIEW**



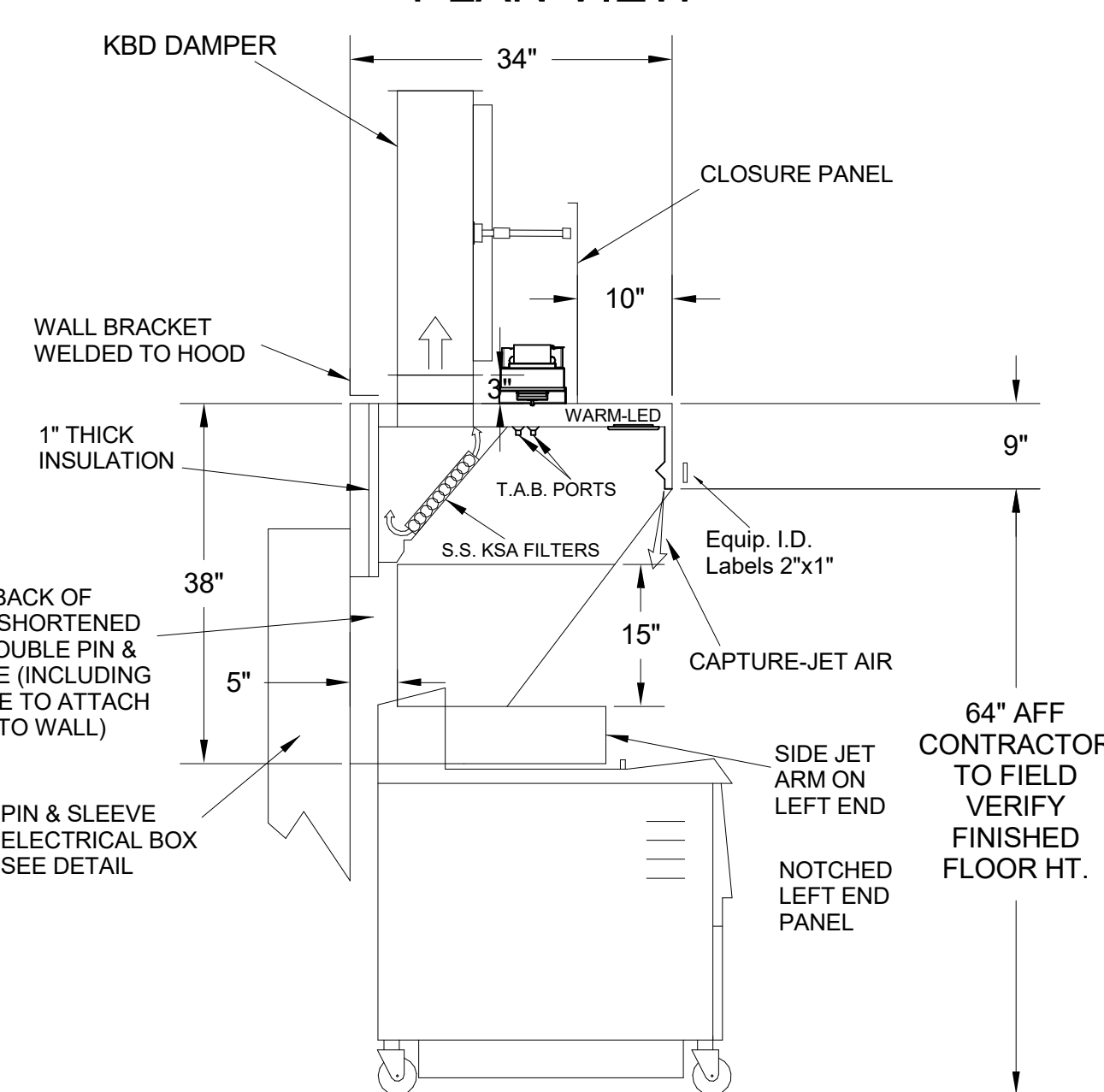
**H-1R SECTION VIEW**

- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- 36"X24" ACCESS DOOR RIGHT SIDE FOR ACCESS TO CAPTURE-JET WITH FRONT CJ INTAKE & KBD
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED:  
(3) PRESSURE FRYERS

MODEL NO.	SERIAL NO.	ITEM NO.



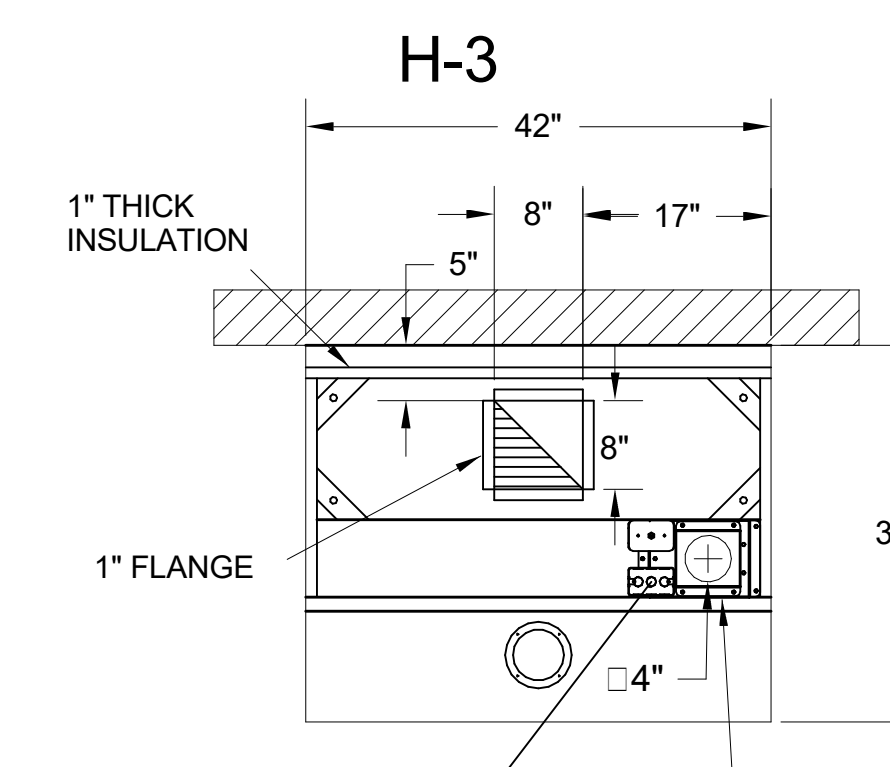
**H-2 PLAN VIEW**



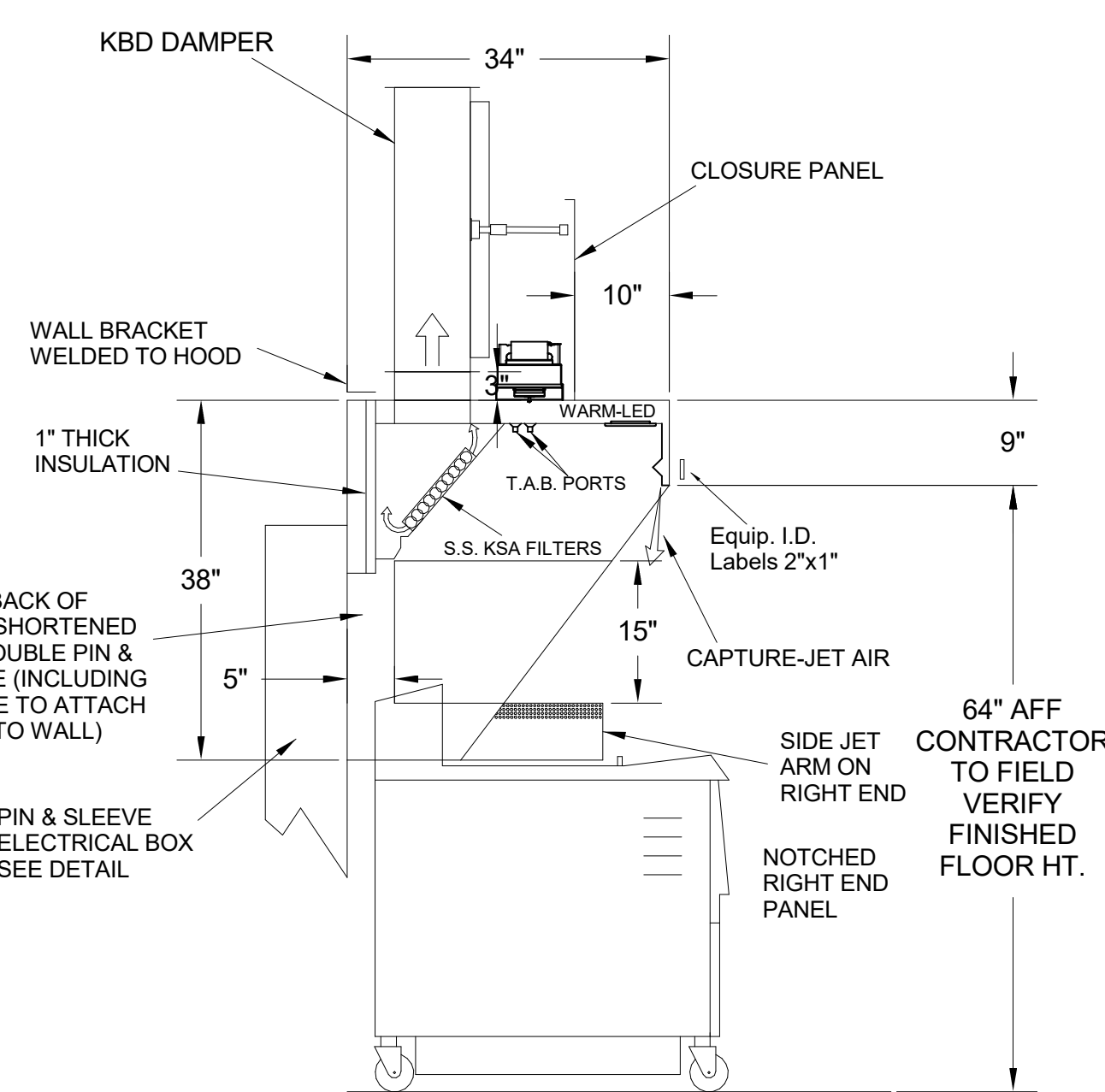
**H-2 SECTION VIEW**

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED LEFT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3"X3" TRIM STRIP FOR STANDOFF ON RIGHT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED:  
(2) FRYERS

MODEL NO.	SERIAL NO.	ITEM NO.



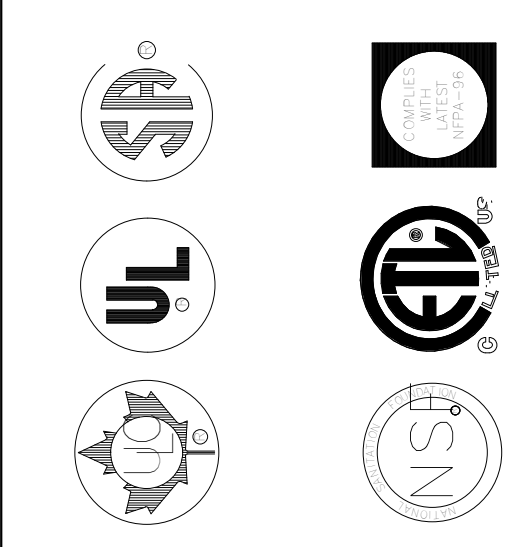
**H-3 PLAN VIEW**



**H-3 SECTION VIEW**

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"X18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED RIGHT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED:  
(2) FRYERS

MODEL NO.	SERIAL NO.	ITEM NO.



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, AZ 85264  
1-270-237-5600

REVISION DESCRIPTION

REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

PROJECT: **CHICK-FL-A**

LOCATION: **HWY 280 AT CRAWFORD RD**

DRAWN BY: **DATE: 05/10/2024**

SCALE: **NTS**

Halton  
CAPRE FOR INDOOR AIR

Sheet **MH-1.1**



ISO VIEW  
W/BRACKET

**FIRE EXTINGUISHER**

**ANSUL**

13051 5 LBS ABC MODEL AA05 QTY \_\_\_\_\_

13052 10 LBS ABC MODEL AA10S QTY \_\_\_\_\_

13053 6 LTR CLASS K-GUARD K01-3 QTY \_\_\_\_\_

SUPPLIED BY  
HALTON

**ANSUL MICROSWITCH DETAIL**

POWER TO COOKING EQUIPMENT SHUNT TRIP BREAKER (BY OTHERS)

VOLTAGE FREE NO CONTACTS FOR INTERCONNECTION TO THE MUA HVAC SYSTEM

VOLTAGE FREE NO CONTACTS FOR INTERCONNECTION TO THE BUILDING ALARM SYSTEM

UPPER SWITCHES

LOWER SWITCHES

UPPER SWITCH

LOWER SWITCH

SNAP ACTION SWITCHES CONTACTS SHOWN WITH AUTOMAN IN THE COOKED POSITION (READY) 21 AMP, 125/250 VAC SWITCHES

MICRO-SWITCH

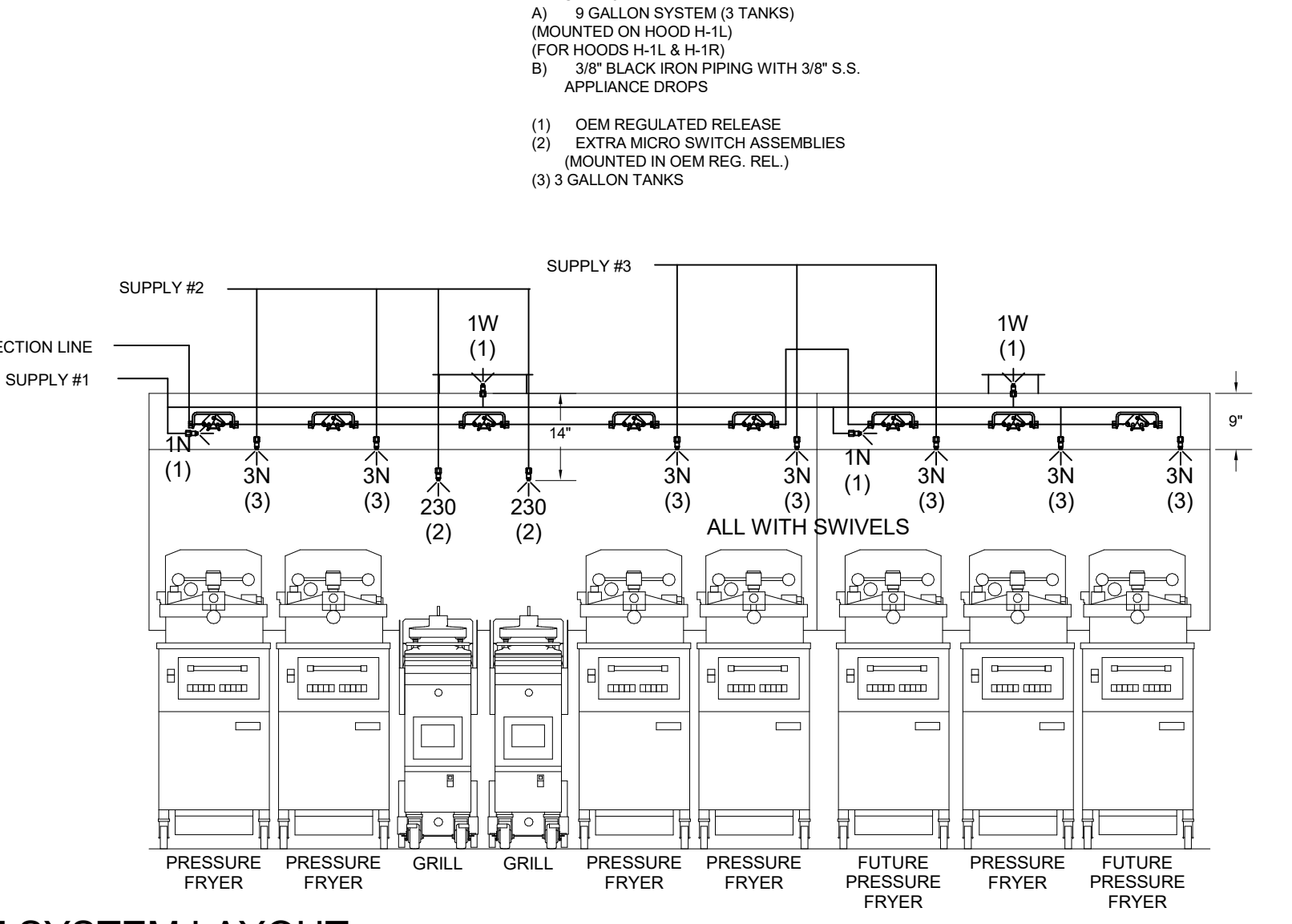
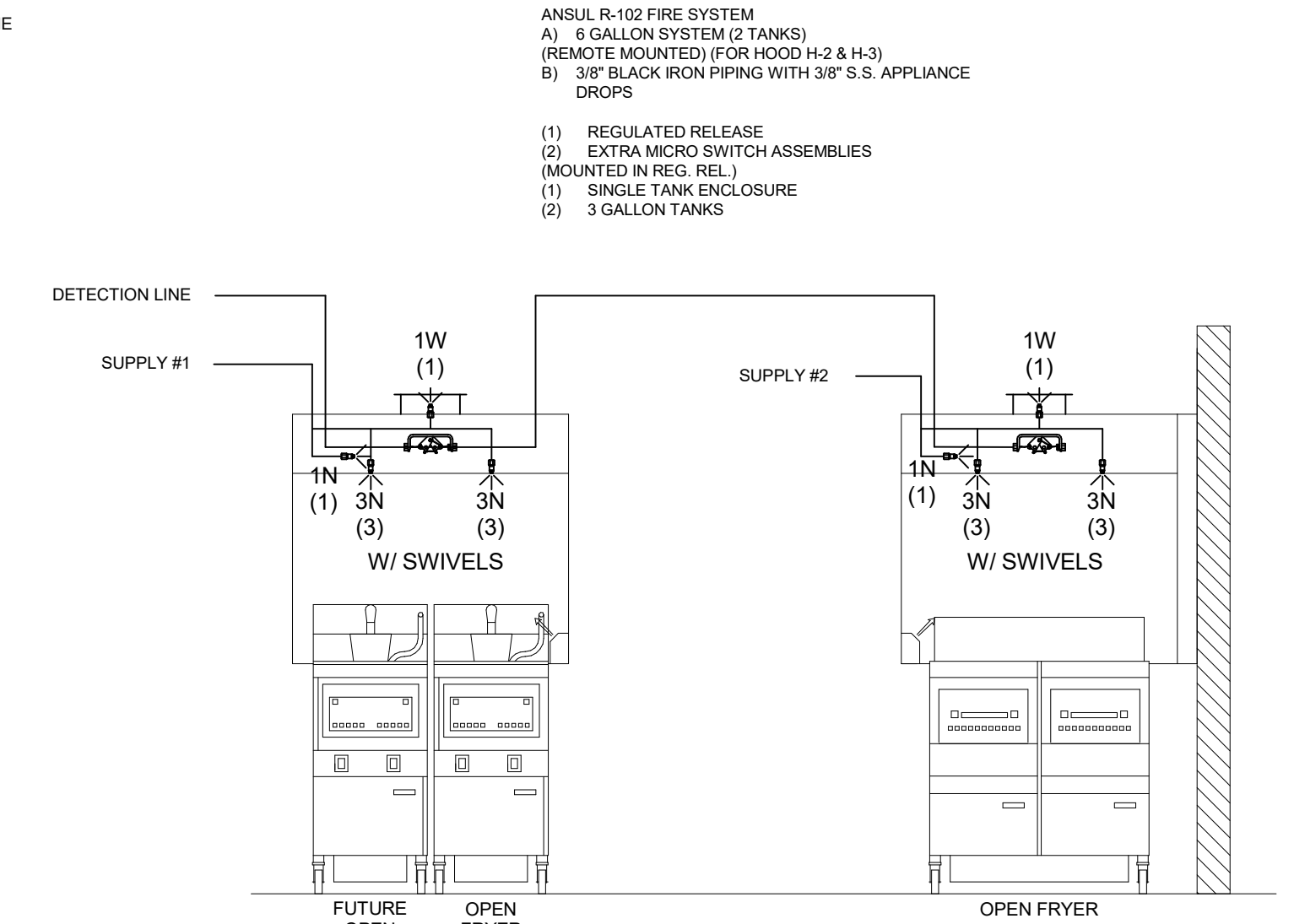
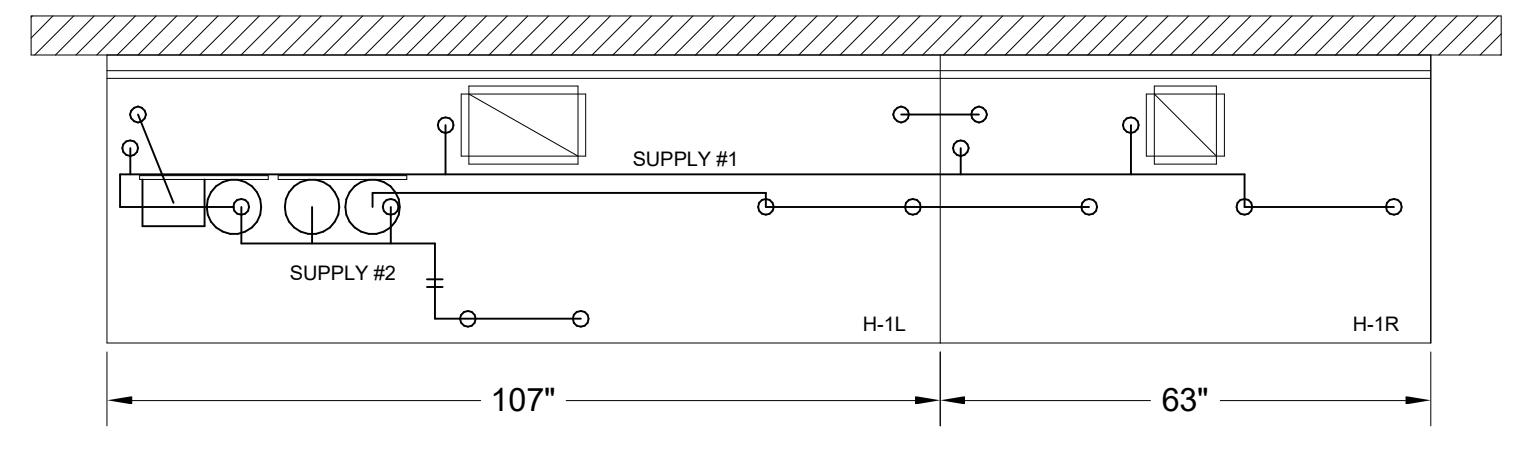
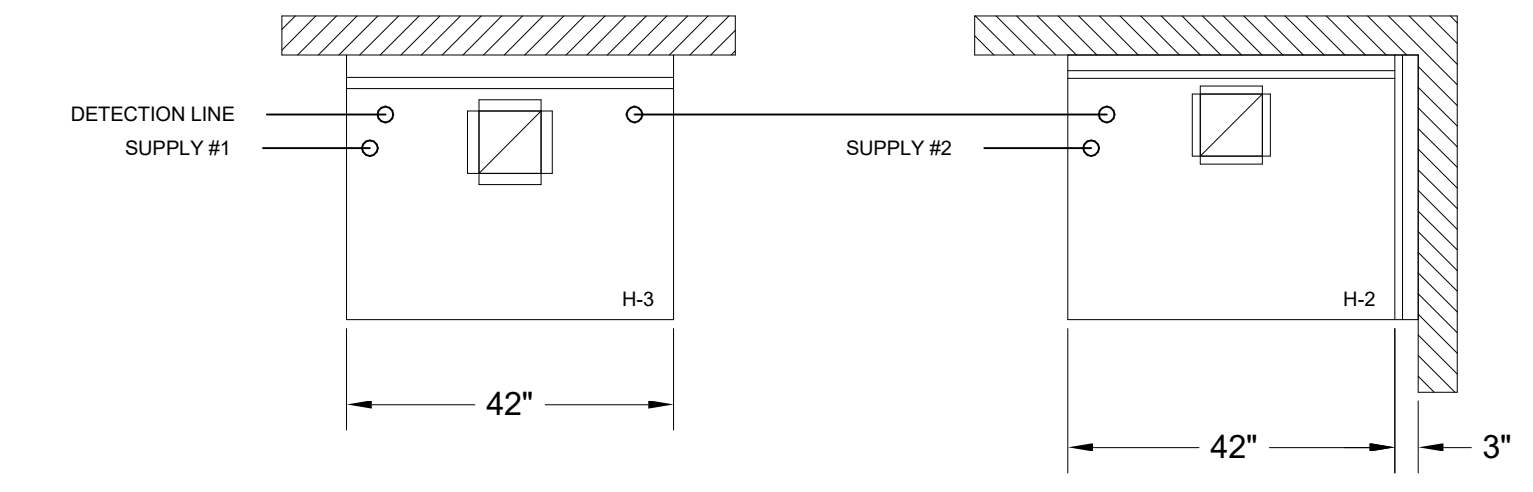
4 SWITCHES INCLUDED

FIELD WIRING BY ELECTRICAL CONTRACTOR

**FOR REFERENCE ONLY**

**NOTE:**  
FIRE SYSTEM TYPE TO BE DETERMINED AT TIME OF ORDER RELEASE.

**\*\*PROTECTS HOODS H-2 & H-3\*\***



ANSUL R-102 FIRE SYSTEM LAYOUT

# ANSUL

FUSIBLE LINK RATINGS

ITEM TEMP

OPEN FRYERS 450°

2 BURNER / FLAT TOP 450°

PRESSURE FRYERS 450°

GRILL 450°

EXHAUST COLLARS 450°

ANSUL R-102 FIRE SYSTEM NOTES

THREE TANK SYSTEM MOUNTED ON TOP OF (H-1L)

MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES

TWO TANK SYSTEM REMOTE MOUNTED

MAXIMUM FLOW POINTS = 22

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	4	DUCT NOZZLES	4
1N	10022	4	PLENUM NOZZLES	4
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	11	APPLIANCE NOZZLES	33
TOTAL FLOW POINTS				45
ITEM	QTY	DESCRIPTION		
#200	10035	8	SERIES DETECTORS W/ FUSIBLE LINKS	
#201	11973	2	TERMINAL DETECTORS W/ FUSIBLE LINKS	
#202	10046	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#202	10033	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
#203	10333	5	3 GALLON TANKS	
#204	10044	1	SINGLE TANK ENCLOSURE	
#205	10040	2	REMOTE PULL STATION	
#206	10065	4	DOUBLE TANK NITROGEN CARTRIDGE	
#207	11128	5	3 GALLON ANSULEX CONTAINER	

ANSUL R-102 FIRE SYSTEM

UL LISTED PER STD LATEST STD 300

- FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
- ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
- REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

ISO VIEW  
W/BRACKET

**FIRE EXTINGUISHER**

**AMEREX**

11238 5 LBS ABC MODEL B402 QTY \_\_\_\_\_

11239 10 LBS ABC MODEL B456 QTY \_\_\_\_\_

11240 6 LTR CLASS K MODEL C-260 QTY \_\_\_\_\_

SUPPLIED BY  
HALTON

**AMEREX MICROSWITCH DETAIL**

POWER TO COOKING EQUIPMENT SHUNT TRIP BREAKER (BY OTHERS)

VOLTAGE FREE NO CONTACTS FOR INTERCONNECTION TO THE MUA HVAC SYSTEM

VOLTAGE FREE NO CONTACTS FOR INTERCONNECTION TO THE BUILDING ALARM SYSTEM

UPPER SWITCHES

LOWER SWITCHES

UPPER SWITCH

LOWER SWITCH

SNAP ACTION SWITCHES CONTACTS SHOWN WITH AUTOMAN IN THE COOKED POSITION (READY) 21 AMP, 125/250 VAC SWITCHES

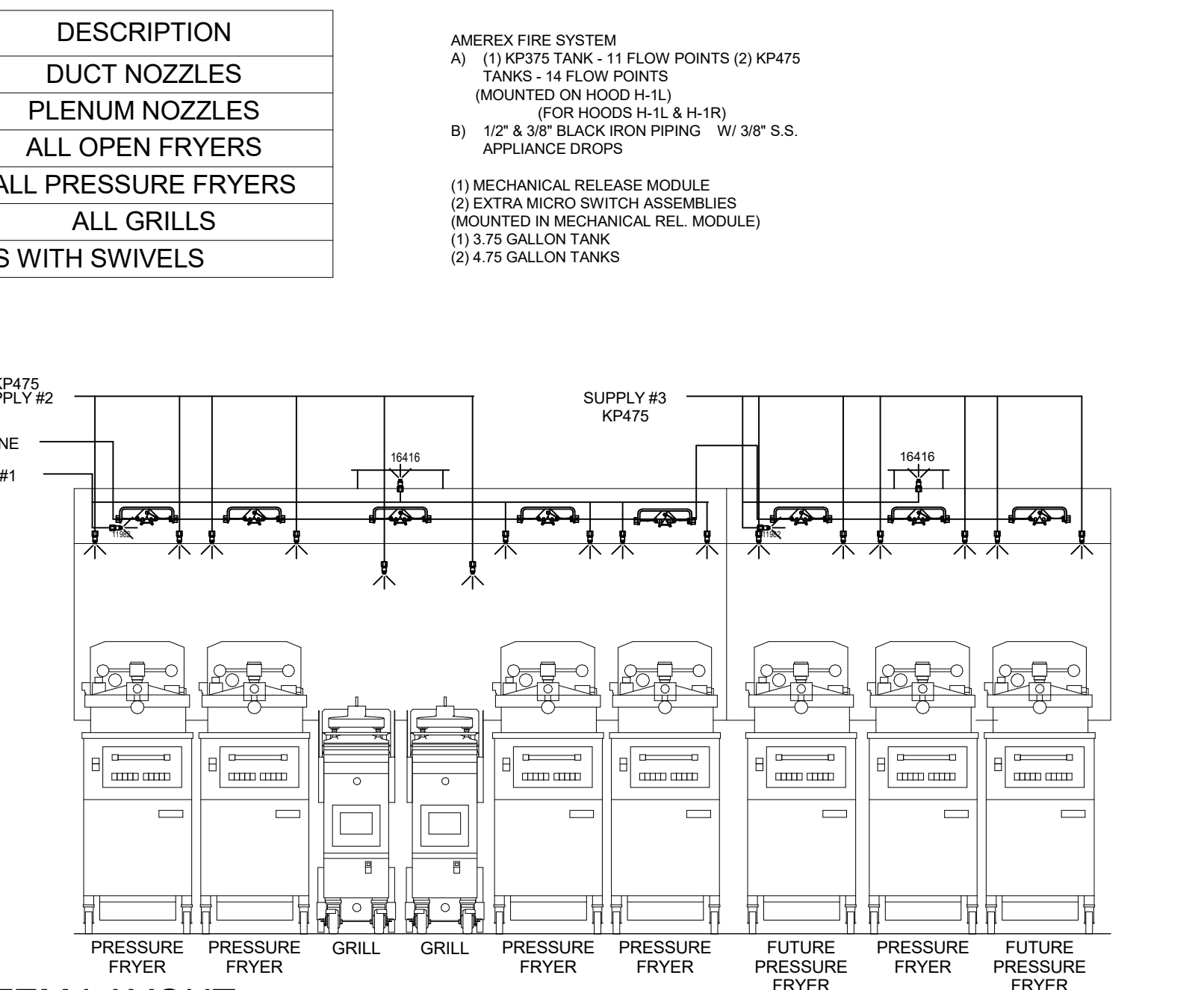
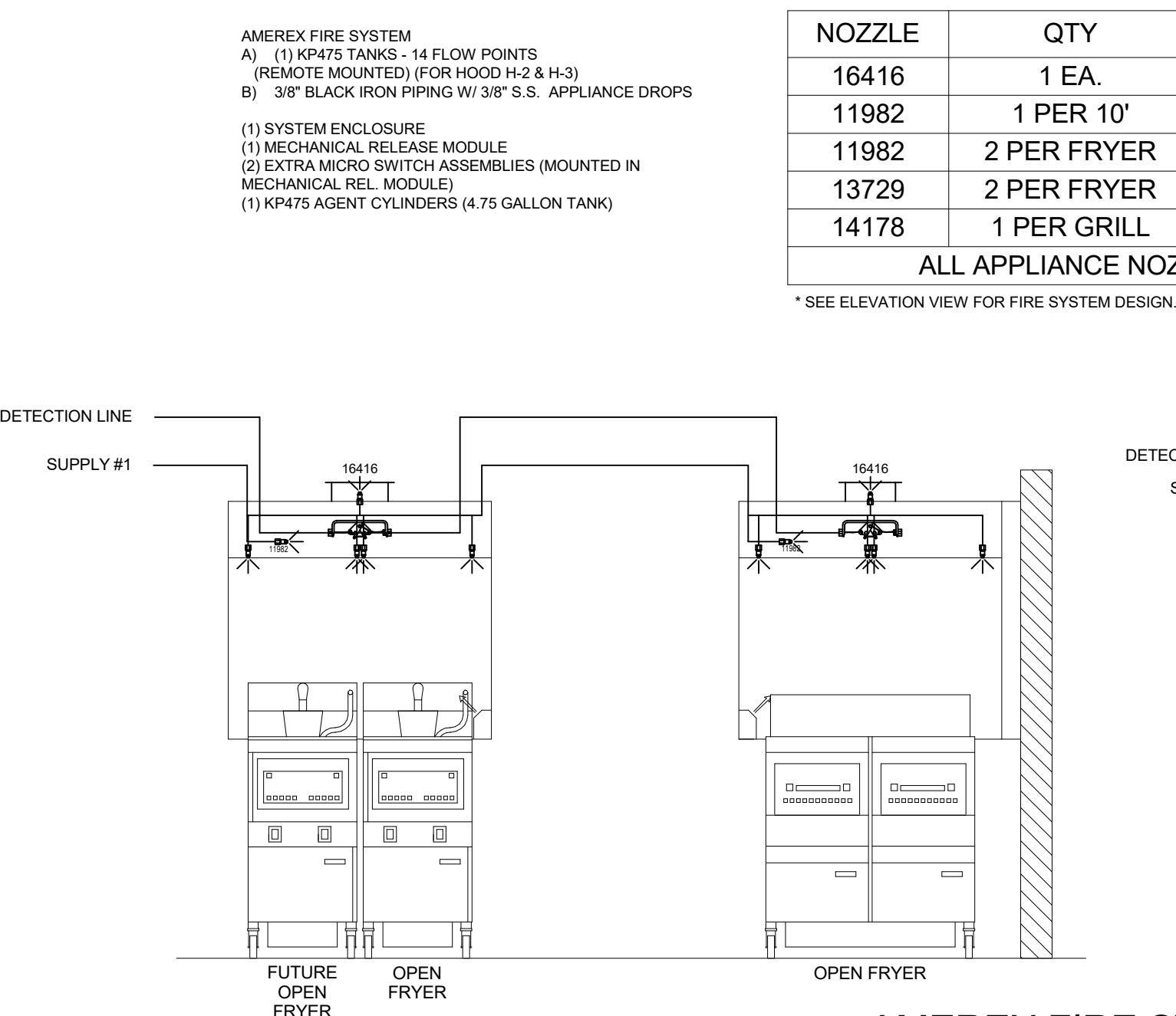
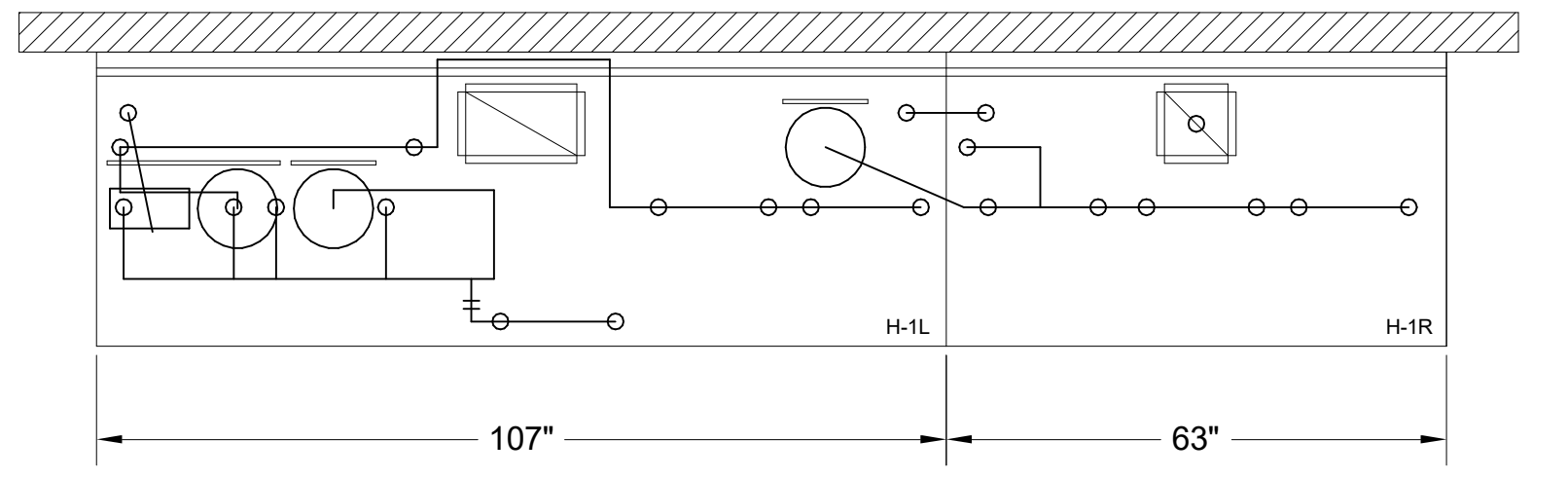
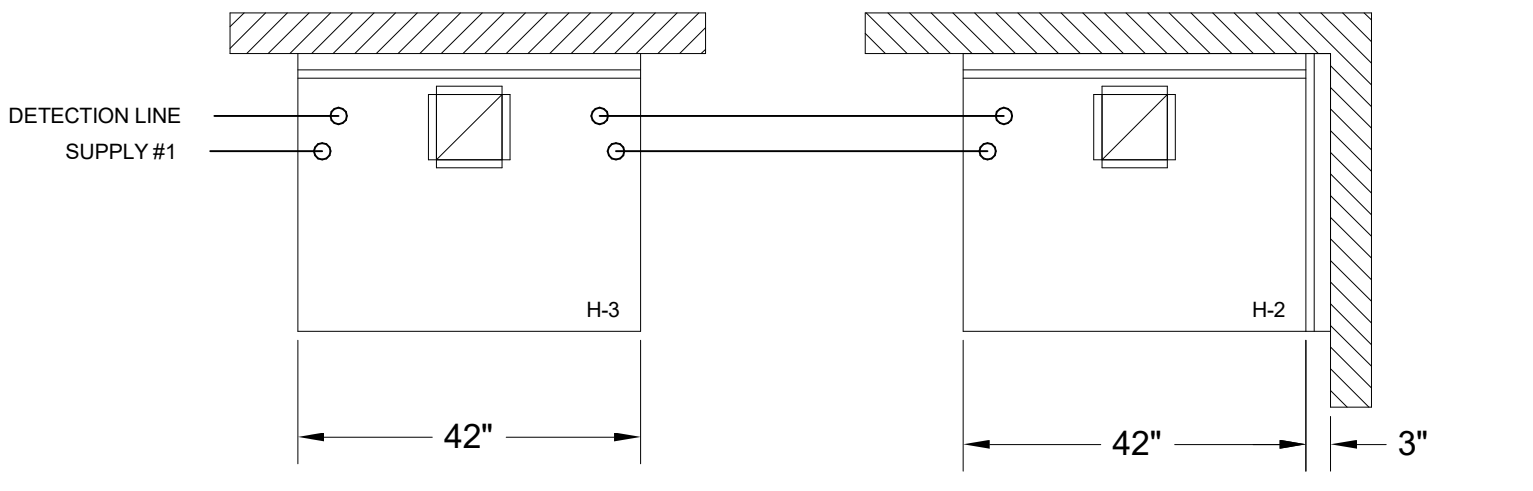
MICRO-SWITCH

4 SWITCHES INCLUDED

FIELD WIRING BY ELECTRICAL CONTRACTOR

**\*\*PROTECTS HOODS H-2 & H-3\*\***

**1/2" BLACK IRON SUPPLY LINE REQ'D FROM TANK TO FIRST BRANCH LINE FOR 475 TANKS ONLY!**



AMEREX FIRE SYSTEM LAYOUT

NOZZLE	QTY	DESCRIPTION
16416	1 EA.	DUCT NOZZLES
11982	1 PER 10'	PLENUM NOZZLES
11982	2 PER FRYER	ALL OPEN FRYERS
13729	2 PER FRYER	ALL PRESSURE FRYERS
14178	1 PER GRILL	ALL GRILLS
ALL APPLIANCE NOZZLES WITH SWIVELS		

\* SEE ELEVATION VIEW FOR FIRE SYSTEM DESIGN.

# AMEREX

FUSIBLE LINK RATINGS

ITEM TEMP

OPEN FRYERS 450°

2 BURNER / FLAT TOP 450°

PRESSURE FRYERS 450°

GRILL 450°

EXHAUST COLLARS 450°

AMEREX FIRE SYSTEM NOTES

(1) KP375 & (2) KP475 TANK SYSTEM MOUNTED ON TOP OF (H-1L)

MAXIMUM FLOW POINTS = 39

AMEREX FIRE SYSTEM NOTES

(1) KP475 TANK SYSTEM REMOTE MOUNTED

MAXIMUM FLOW POINTS = 14

ITEM	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	4	DUCT NOZZLES	4
11982	4	PLENUM NOZZLES	4
11982	8	APPLIANCE NOZZLES	8
14178	2	APPLIANCE NOZZLES	4
13729	14	APPLIANCE NOZZLES	28
TOTAL FLOW POINTS			48
ITEM	QTY	DESCRIPTION	
12508-P001	10	DETECTORS BRACKET ASSEMBLY	
13334	1	KP375 AGENT CYLINDER	
17379	3	KP475 AGENT CYLINDER	
18001	1	MECHANICAL RELEASE MODULE WITH ENCLOSURE WITH DOUBLE POLE MICRO SWITCH	
11977	1	MECHANICAL RELEASE MODULE WITHOUT ENCLOSURE WITH DOUBLE POLE MICRO SWITCH	
21481	2	REMOTE MANUAL PULL STATION	

AMEREX FIRE SYSTEM

UL LISTED PER STD LATEST STD 300

- FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
- ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY AMEREX INSTALLER
- REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THE DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFYING THE FOLLOWING:

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.

AGREEMENT TO THE TYPE OF COOKING EQUIPMENT. MATERIALS AND WORKMANSHIP. EQUIPMENT SUCH AS INCREASED ENERGY HEATS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HAZARD MUST BE NOTIFIED IF THESE CHANGES OCCUR. A RECALCULATION, EXHAUST AIRFLOW MAY BE REQUIRED.

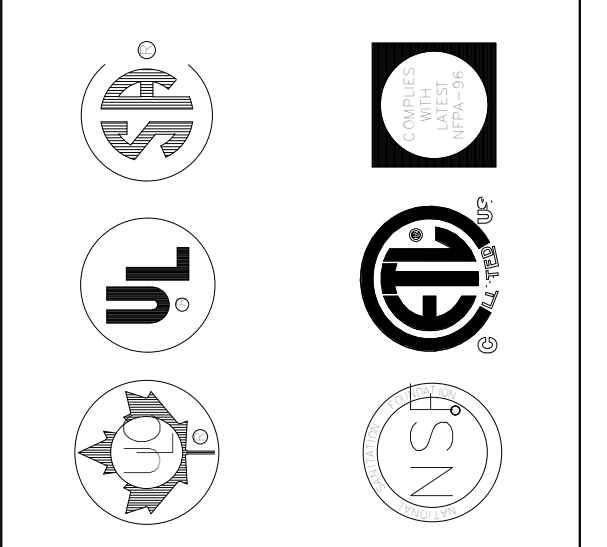
REVISE AND RESUBMIT

APPROVED FOR FABRICATION

WITH NO CHANGES

WITH CHANGES AS NOTED

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)

101 INDUSTRIAL DRIVE  
SCOTTSDALE, AZ 85264  
1-270-237-5600

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

REV. 1 2 3 4 5 6 7

PROJECT: **CHICK-FL-A**

LOCATION: **HWY 280 AT CRAWFORD RD**

DRAWN BY: \_\_\_\_\_ DATE: 05/10/2024

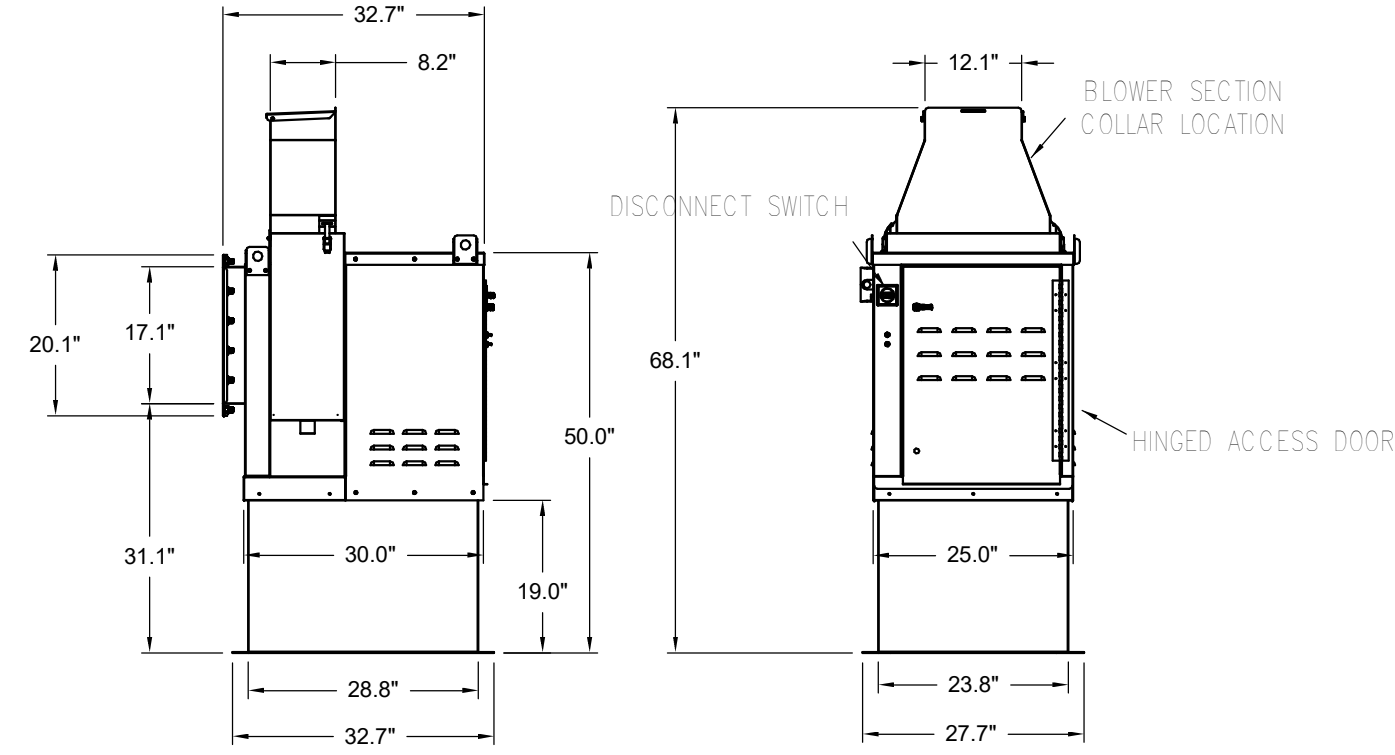
SCALE: NTS

Halton Dwg: \_\_\_\_\_

Halton  
CARE FOR INDOOR AIR

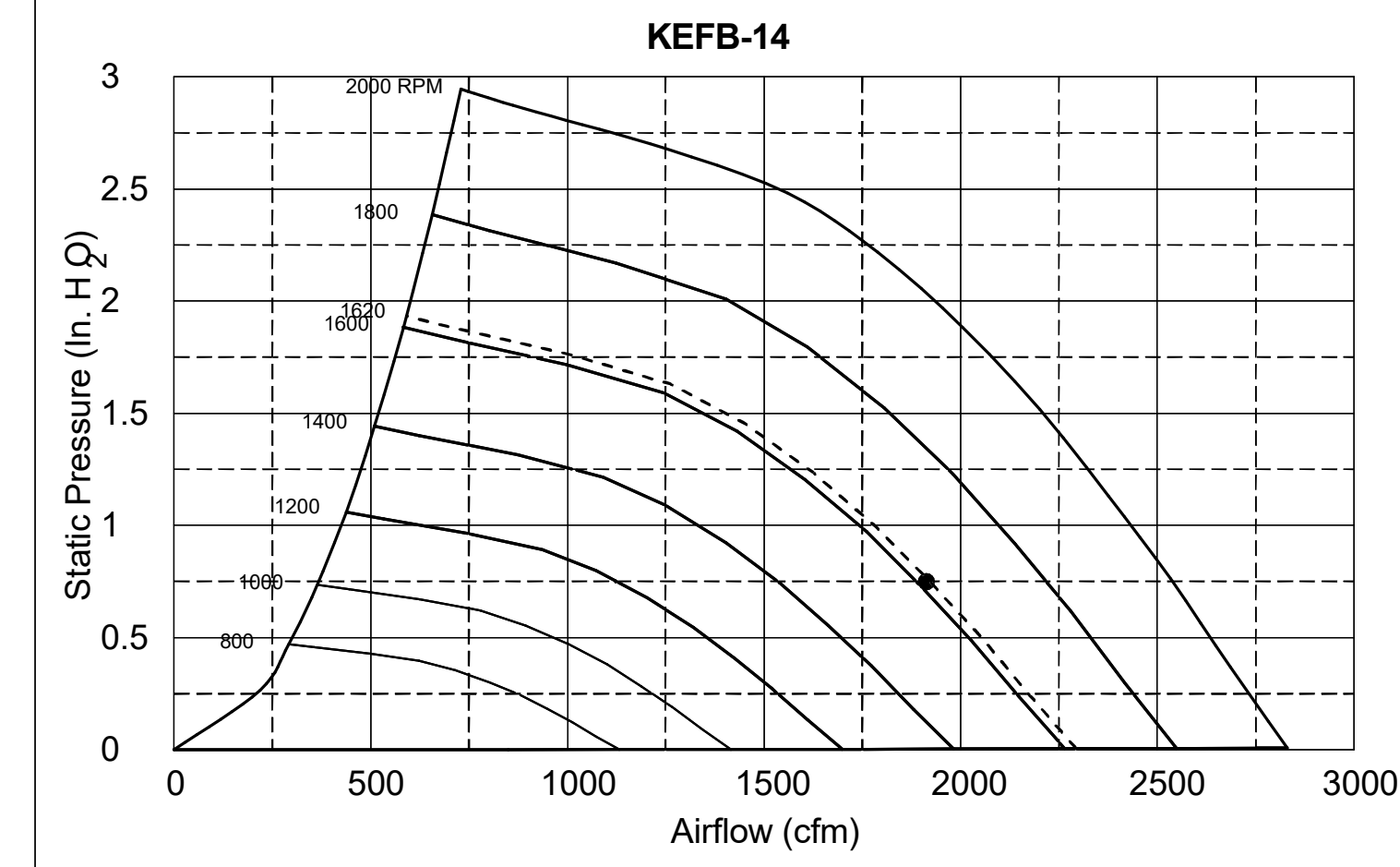
**FOR REFERENCE ONLY**

**EF-1**

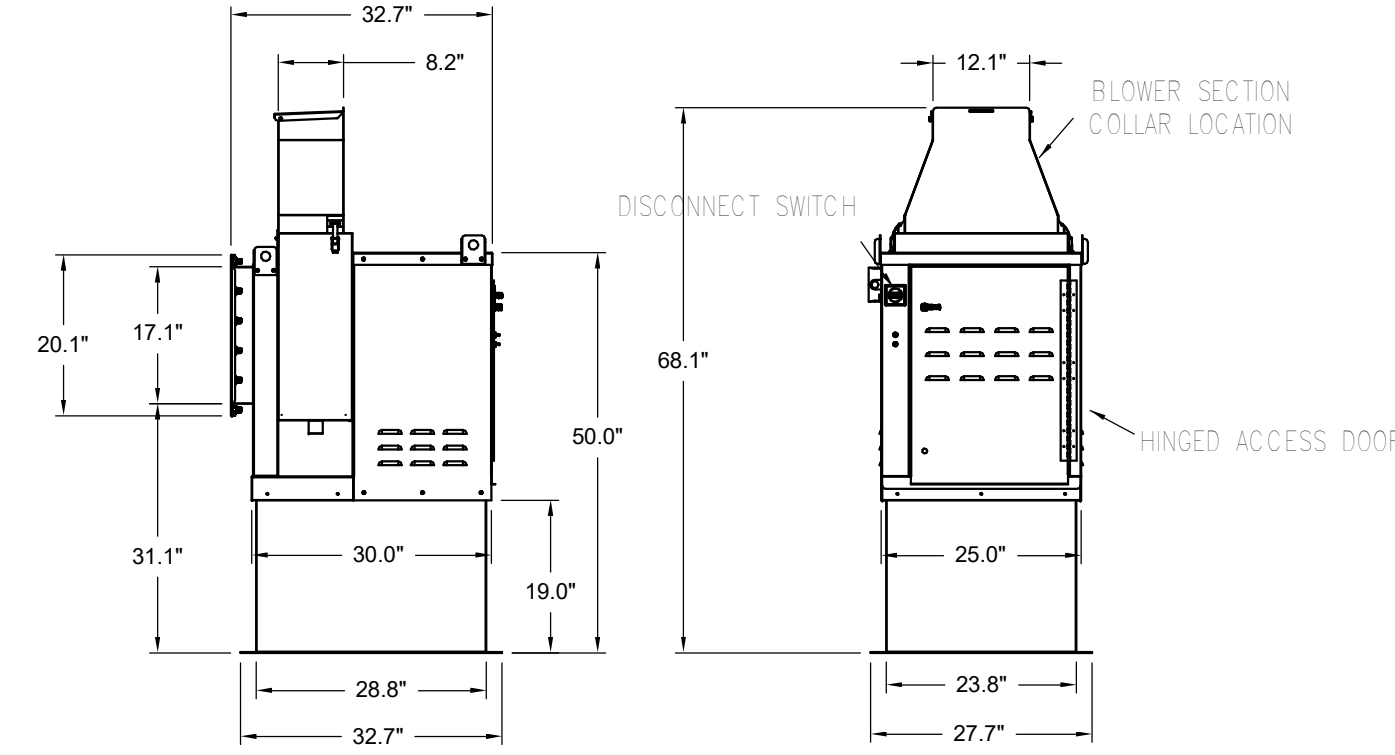


**Halton KEFB Exhaust Fan**

Job Name	Chick-Fl-A	Item No	Qty	Volts/Ph/Amps	115/1/60	TAB Port, in WC	4
Location	EF-1	Fan RPM	1,747	Motor HP	0.75		
Date	1/26/2023	Fan BHP	0.55	Motor HP	0.75		
Model	KEFB-14	Fan RPM	1,747	Motor HP	0.75		
Airflow, cfm	1,913	Fan BHP	0.55	Motor HP	0.75		
Static Pressure, in WC	0.75	Fan BHP	0.55	Motor HP	0.75		

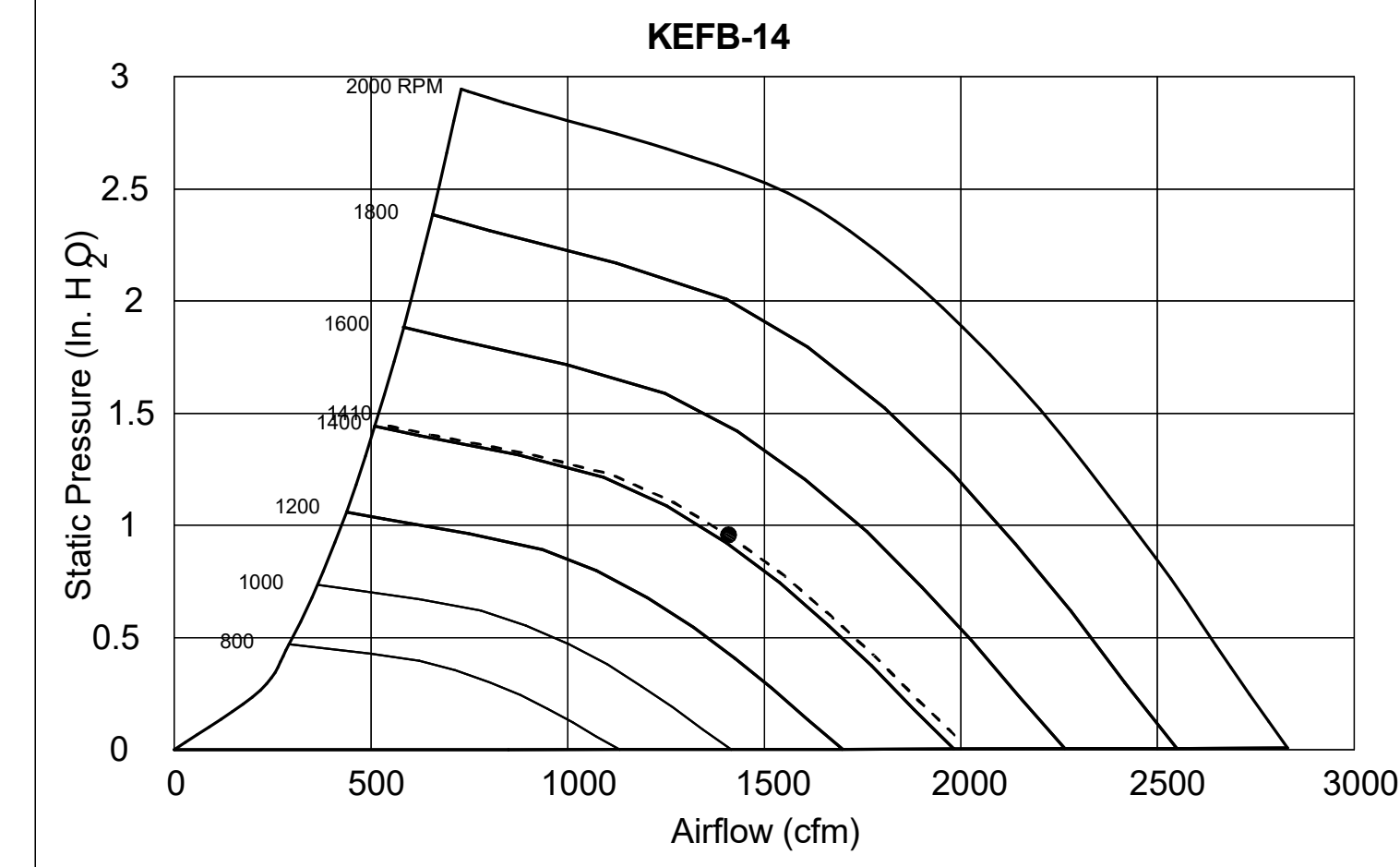


**EF-2**



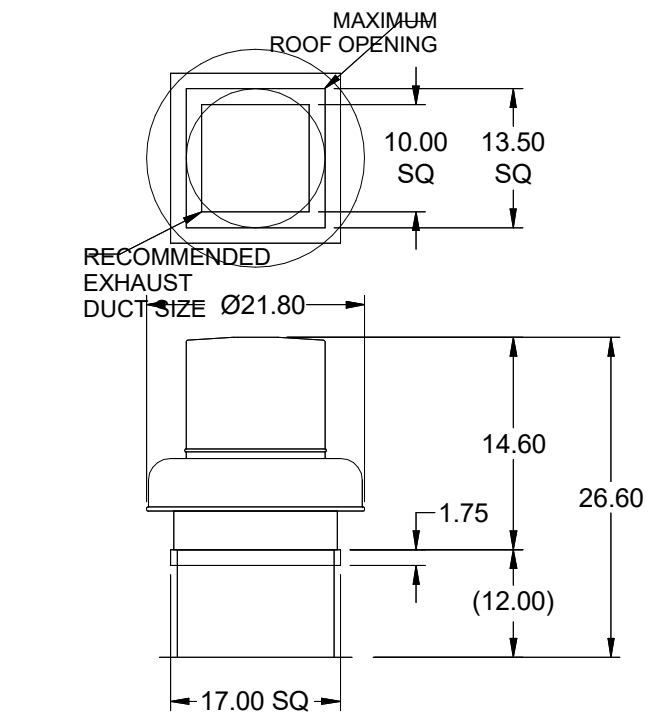
**Halton KEFB Exhaust Fan**

Job Name	Chick-Fl-A	Item No	Qty	Volts/Ph/Amps	115/1/60	TAB Port, in WC	2.1
Location	EF-2	Fan RPM	1,522	Motor HP	0.75		
Date	1/26/2023	Fan BHP	0.38	Motor HP	0.75		
Model	KEFB-14	Fan RPM	1,522	Motor HP	0.75		
Airflow, cfm	1,402	Fan BHP	0.38	Motor HP	0.75		
Static Pressure, in WC	0.95	Fan BHP	0.38	Motor HP	0.75		



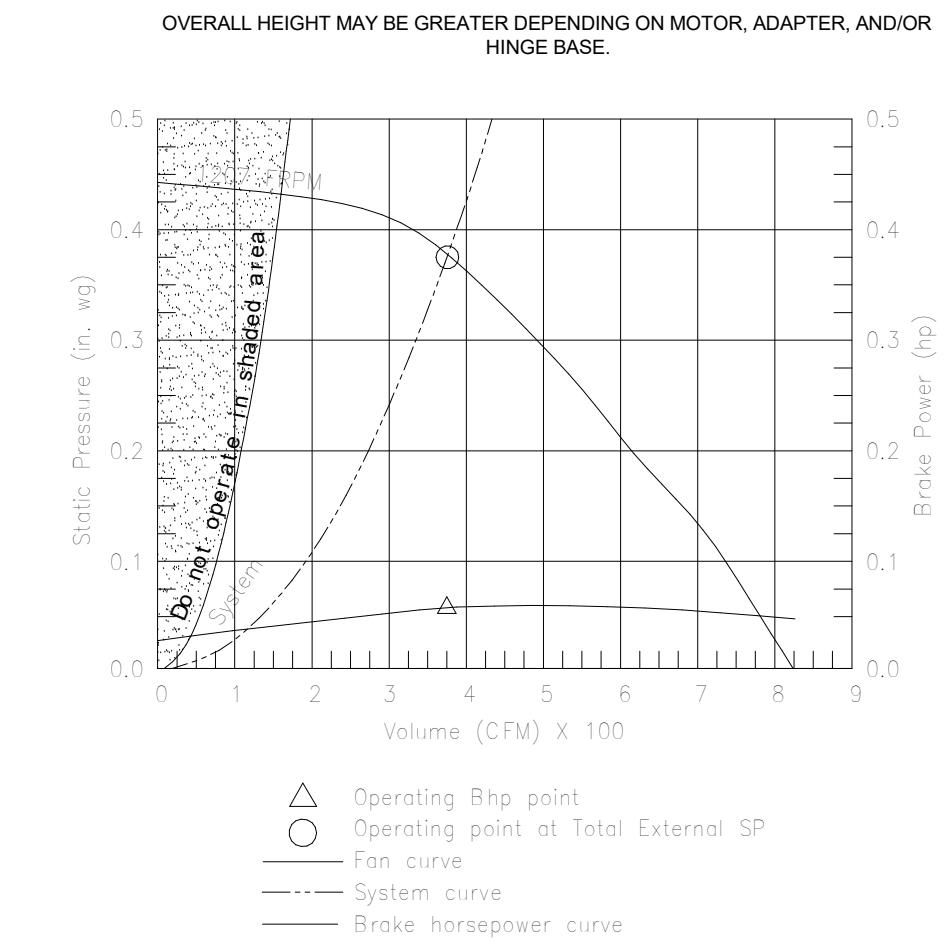
**Model: XRED-095-VG**  
Direct Drive Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	28
Weight w/ Acc's (lb)	35
Weight w/ Acc's and Curb (lb)	49
Standard Curb Cap Size (in.)	17 x 17
Optional Damper (in.)	10 x 10
Roof Opening (in.)	13.5 x 13.5
Performance	
Requested Volume (CFM)	375
Actual Volume (CFM)	375
Total External SP (in. wg)	0.375
Fan RPM	1207
Operating Power (hp)	0.05
Elevation (ft)	23
Airstream Temp. (F)	70
Air Density (lb/ft <sup>3</sup> )	0.075
Tip Speed (ft/min)	3,437
Static Eff. (%)	41
Misc Fan Data	
Fan Eff. Index (FEI)	-
Outlet Velocity (ft/min)	323



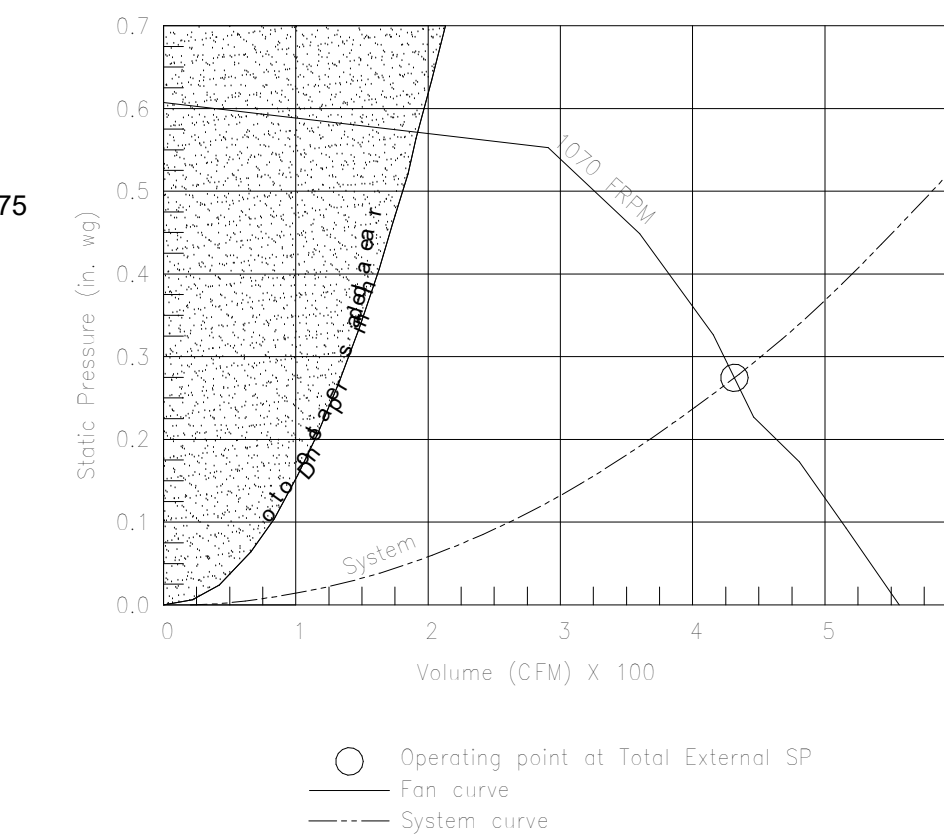
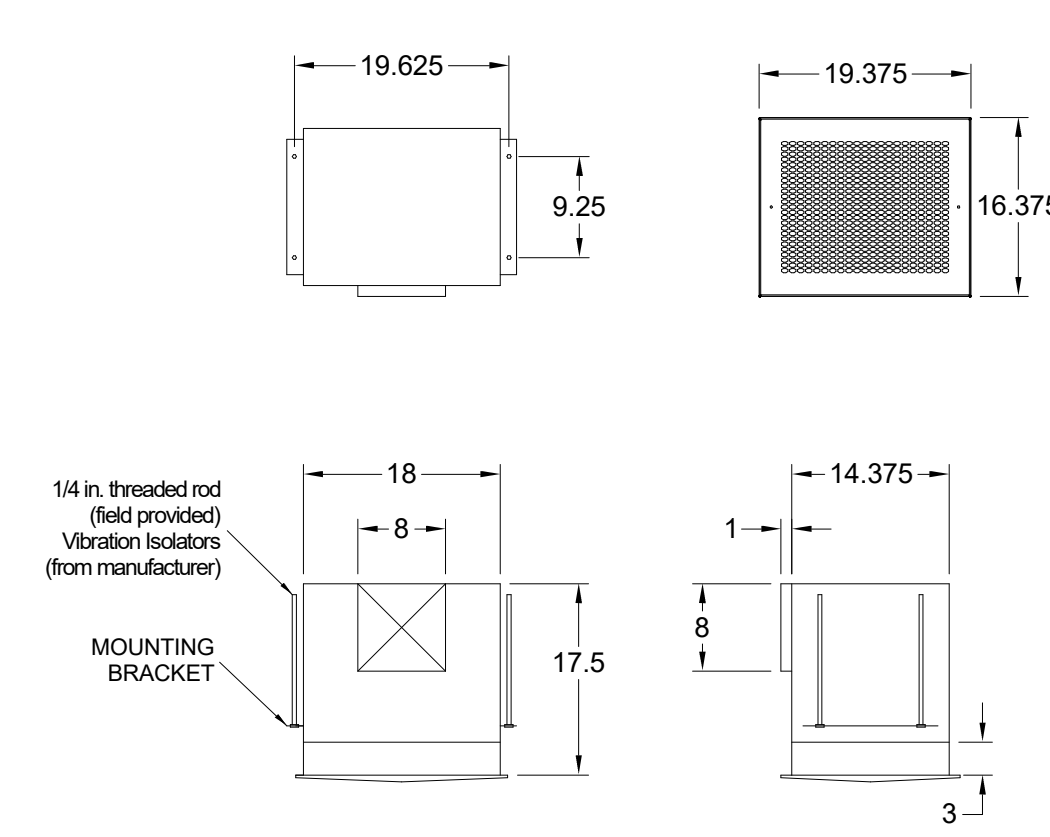
Motor	
Motor Mounted	Yes
Size (hp)	1/8 (or greater)
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1550
Efficiency Rating	Standard
Windings	1

**EF-3**



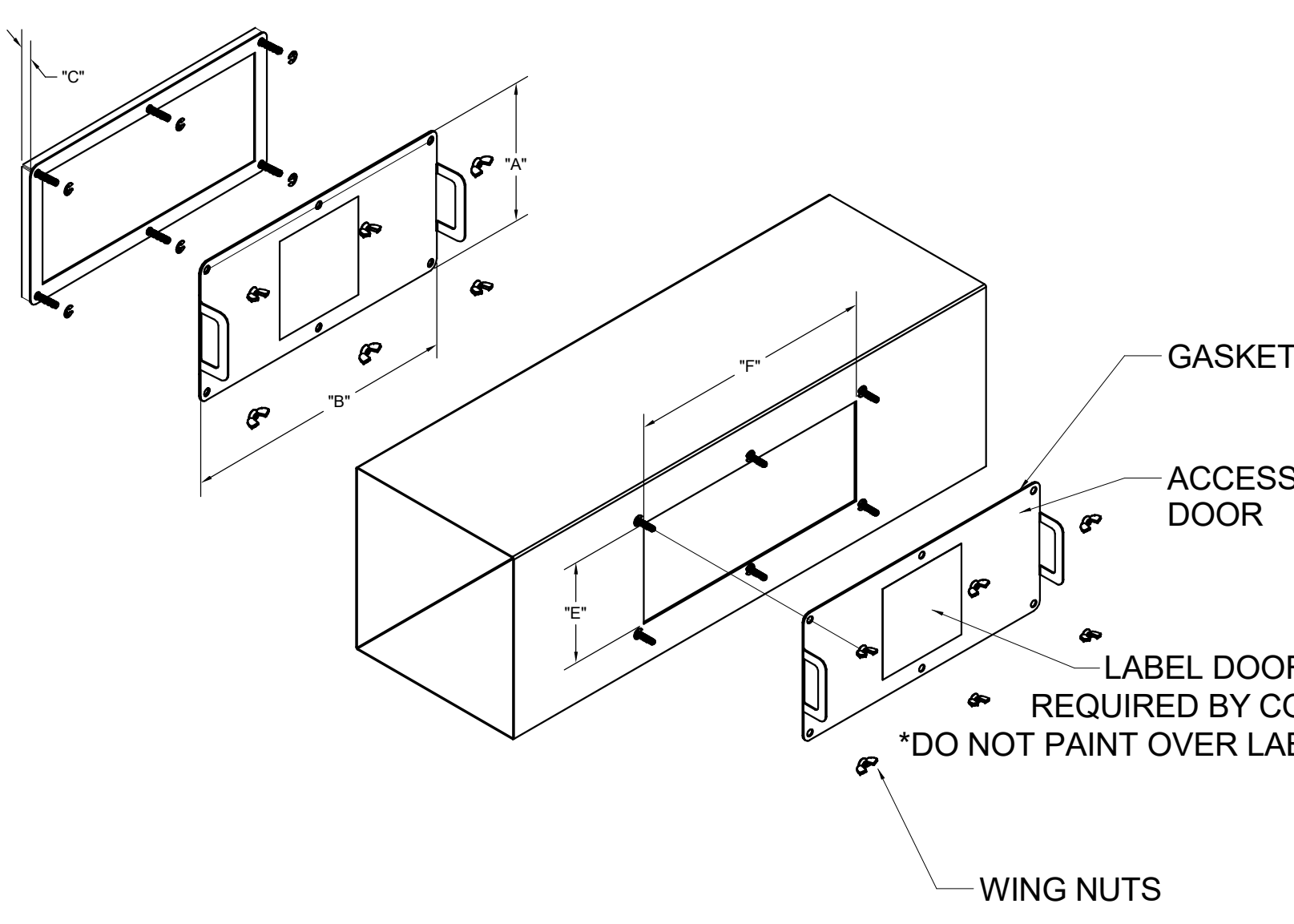
**Model: SP-A510-VG**

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	31
Weight w/ Acc's (lb)	40
Performance	
Requested Volume (CFM)	450
Actual Volume (CFM)	431
Total External SP (in. wg)	0.275
Fan RPM	1070
* FLA (A)	3.3
Elevation (ft)	23
Airstream Temp. (F)	70
Air Density (lb/ft <sup>3</sup> )	0.075
Notes	4.5
Motor	
Motor Mounted	Yes
** Input Watts (W)	224
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP

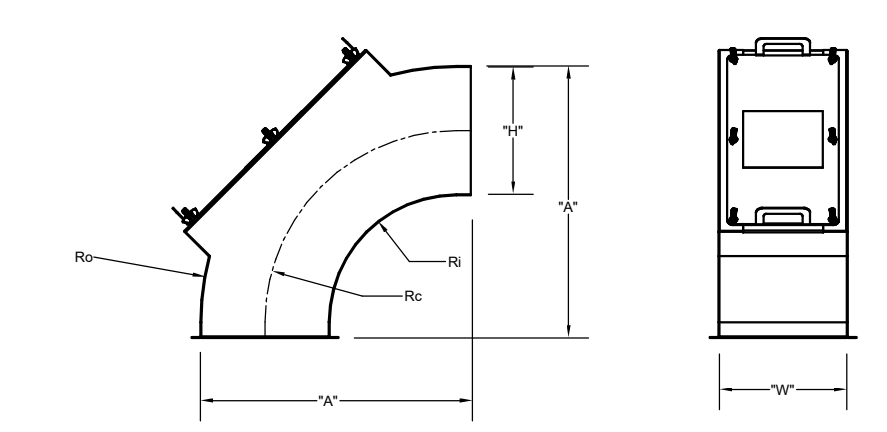
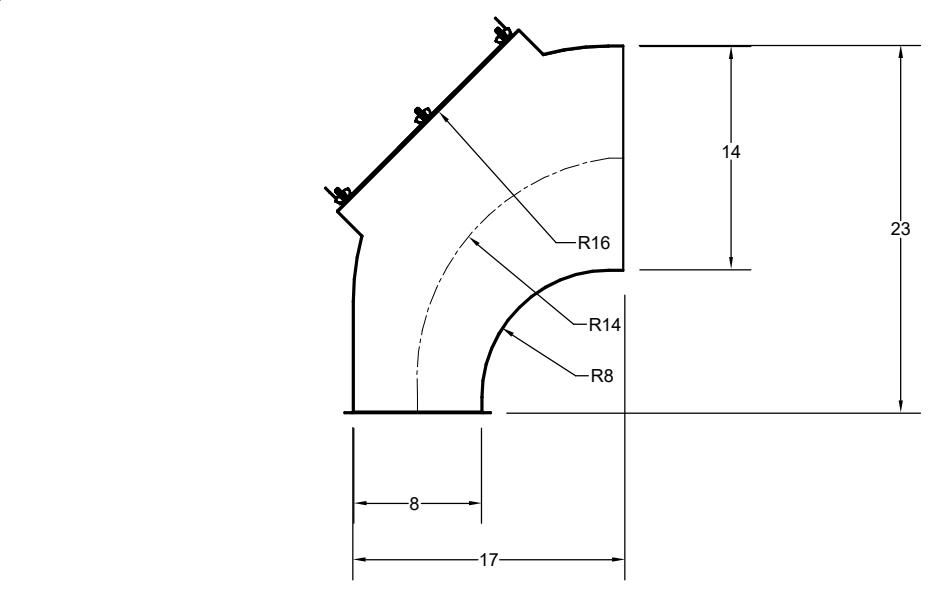


MODEL	GREASE ACCESS DOOR DOOR SCHEDULE				OPTIONAL FLANGE OPENING	
	"A" SIZE	"B"	"C"	"E"	"F"	
KAP0715	7	15	FLAT	5.5	13.5	
KAP1015	10	15	1/2	7	12	

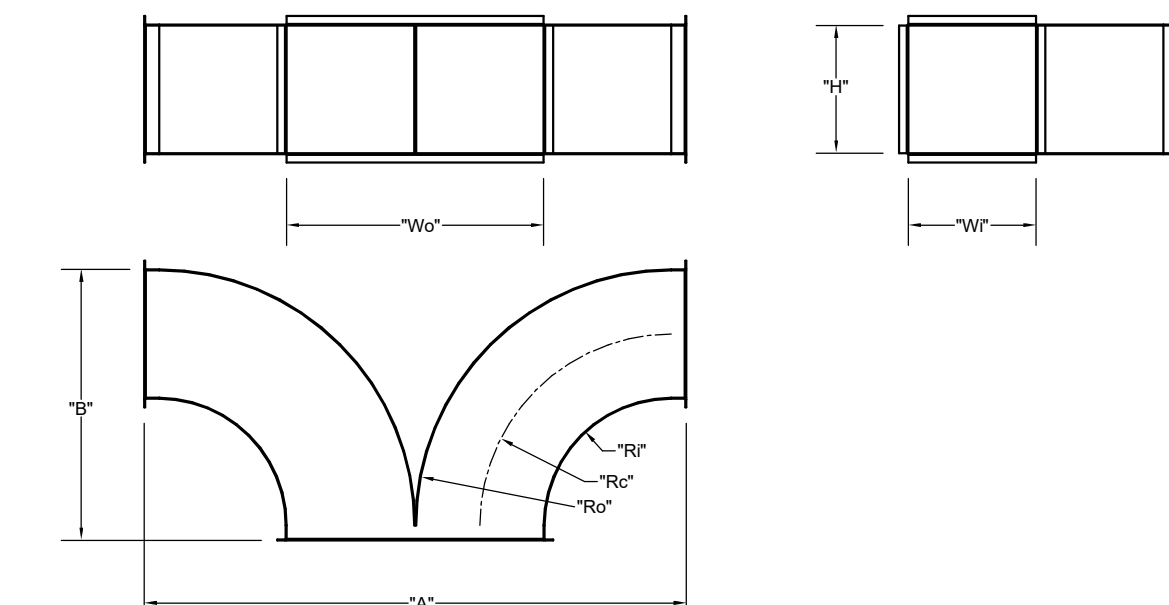
ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IBC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEREZ GASKET MATERIAL.



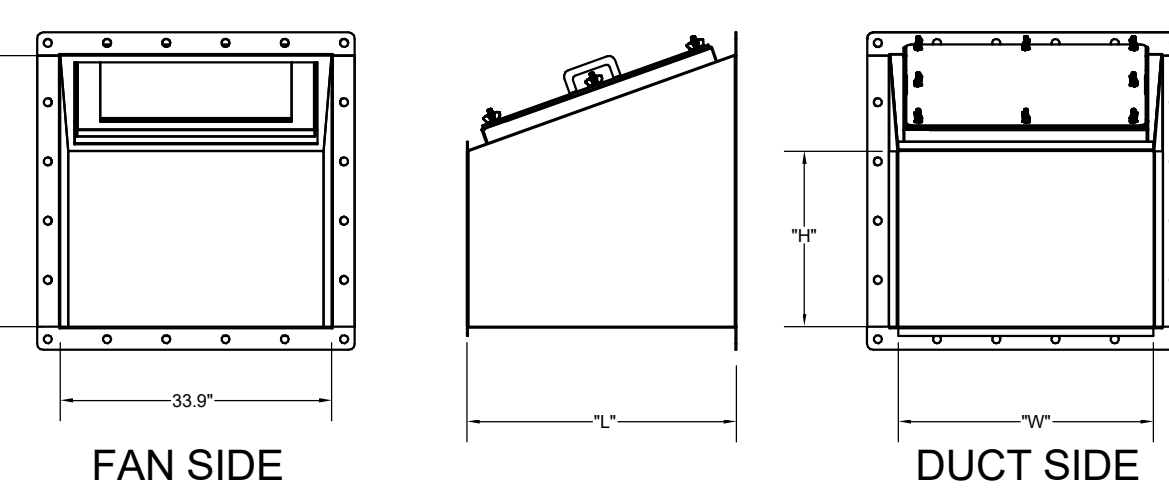
INSTALL PER MANUFACTURER'S INSTRUCTIONS



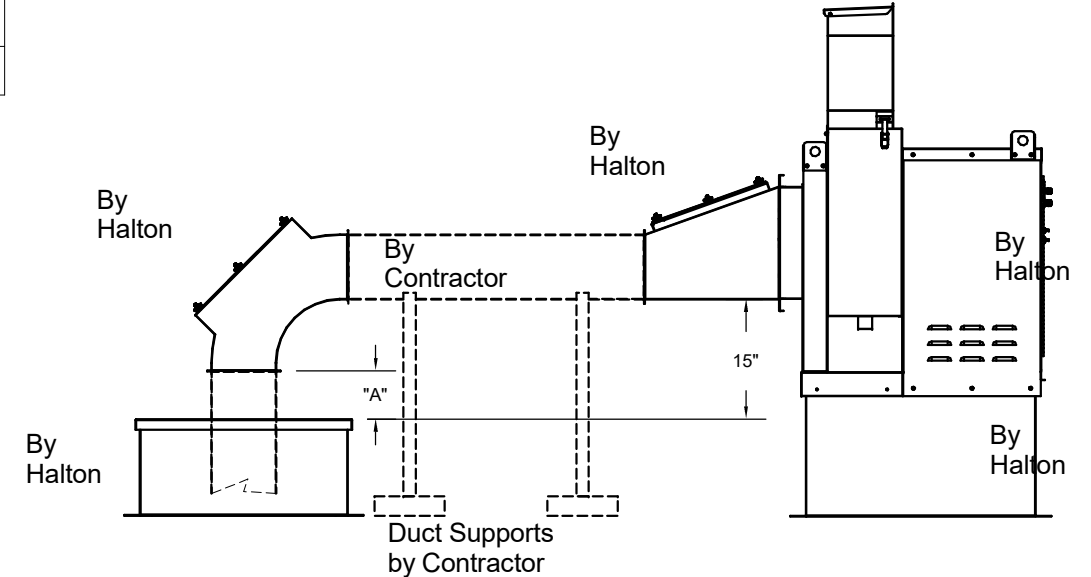
"H"	"W"	"A"	Ro	Rc	Ri
14	8	29	28	21	14
8	8	17	16	12	8



"Wi"	"H"	Wo	Ro	Rc	Ri	"A"	"B"
EF-1	8	14	16	16	12	8	34
EF-2	8	10	16	16	12	8	34

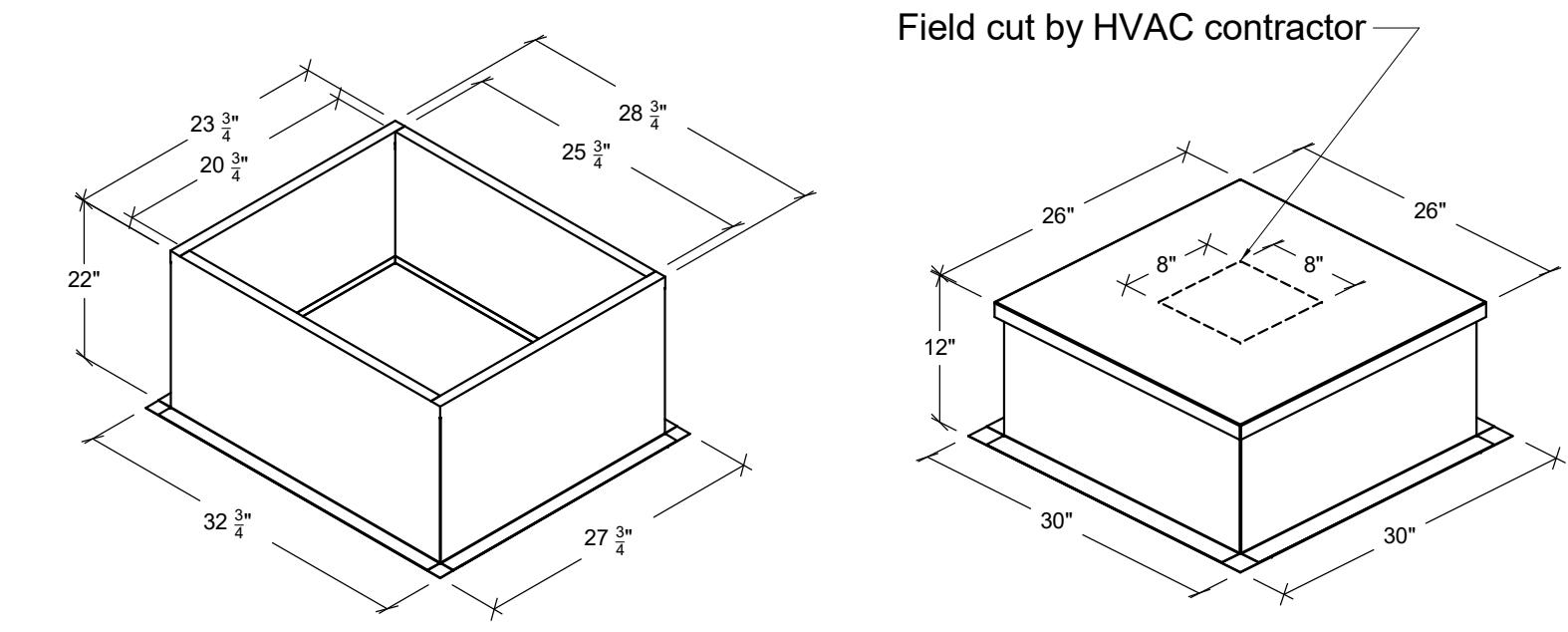


TRANSITION	"H"	"W"	"L"
EF-1	5	14	25
EF-2	6	10	17



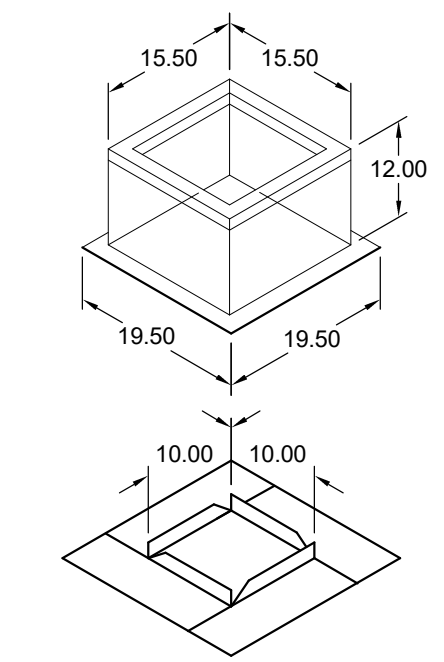
"A" DISTANCE AVAILABLE FOR DUCT	SLOPE	ELBOW	"A"
EF-1	14	X8	8
EF-2	8	X8	10

**Halton Kitchen Exhaust Fan Curb Insulated Duct Curb**



**Kitchen Exhaust Fan Roof Curb**  
Standard Construction Features:  
- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of 18 ga aluminum steel - Straight Sided without a cant - 2 in. mounting flange - Height is 22 in.

**Insulated Duct Curb**  
Standard Construction Features:  
- Duct Curb fits between the building roof and the fan mounted directly to the roof support structure - Constructed of 18 ga aluminum steel - Straight Sided without a cant - 2 in. mounting flange - Height is 12 in. - 16 ga. cap



**Model: GPI**  
For Model: XRED-090-VG  
Curb & Damper Tray

Accessories			
Material	Security Bars	Liner	Insulation (in.)
Galvanized	No	No	1
			R4.3

General							
Tag	Qty	Model	Sizing Method	Undersizing (in.)	Weight (lb)	Shipped Assembled	Union Label
EF-3	1	GPI-17	Nominal	1.5	14	Yes	No Preference
Dimensions							
Curb Height (in.)	Nominal Outside Width (in.)	Nominal Outside Length (in.)	Actual Outside Width (in.)	Actual Outside Length (in.)	Actual Inside Width (in.)	Actual Inside Length (in.)	Flange Width (in.)
12	17	17	15.5	15.5	12	12	19.5
							16

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

PROJECT: **CHICK-FL-A**

LOCATION: **HWY 280 AT CRAWFORD RD**

DRAWN BY: **NTS** DATE: **05/10/2024**

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

Halton **CARE FOR INDOOR AIR**

Sheet **MH-1.4**

REVISION: 1, 2, 3, 4, 5, 6, 7

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

REVISION DESCRIPTION: \_\_\_\_\_

REV. 1: \_\_\_\_\_

REV. 2: \_\_\_\_\_

REV. 3: \_\_\_\_\_

REV. 4: \_\_\_\_\_

REV. 5: \_\_\_\_\_

REV. 6: \_\_\_\_\_

REV. 7: \_\_\_\_\_

HALTON CO. (CANADA)  
1021 BREVIK PLACE  
MISSISSAUGA, ON L4W 3R7  
1-905-624-0301

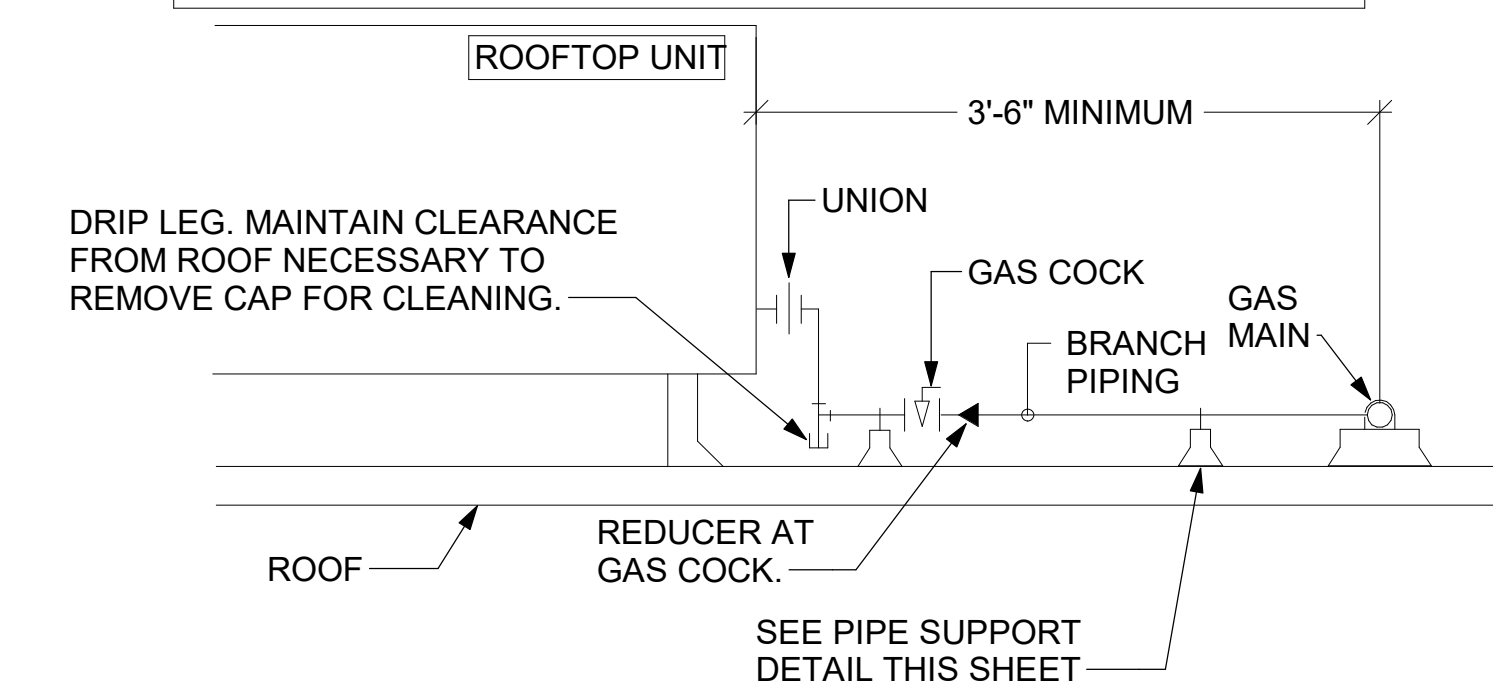
HALTON CO. (USA)  
101 INDUSTRIAL DRIVE  
SCOTTSDALE, AZ 85264  
1-270-237-5600

UL, NSF, IAPMO, CSA, ETL, NEMA, ISO 9001, ISO 14001

WITH CHANGES AS NOTED

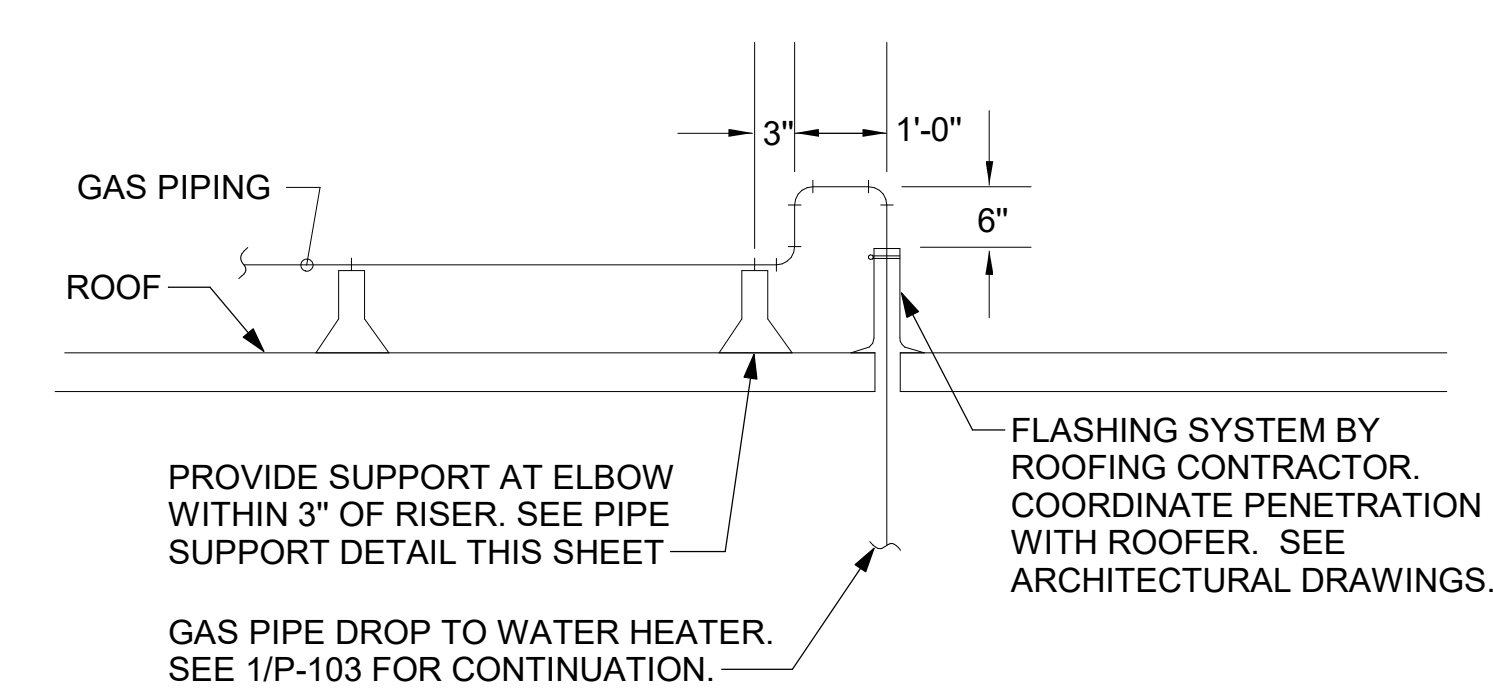
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

- NOTES:**
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
  2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
  3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.

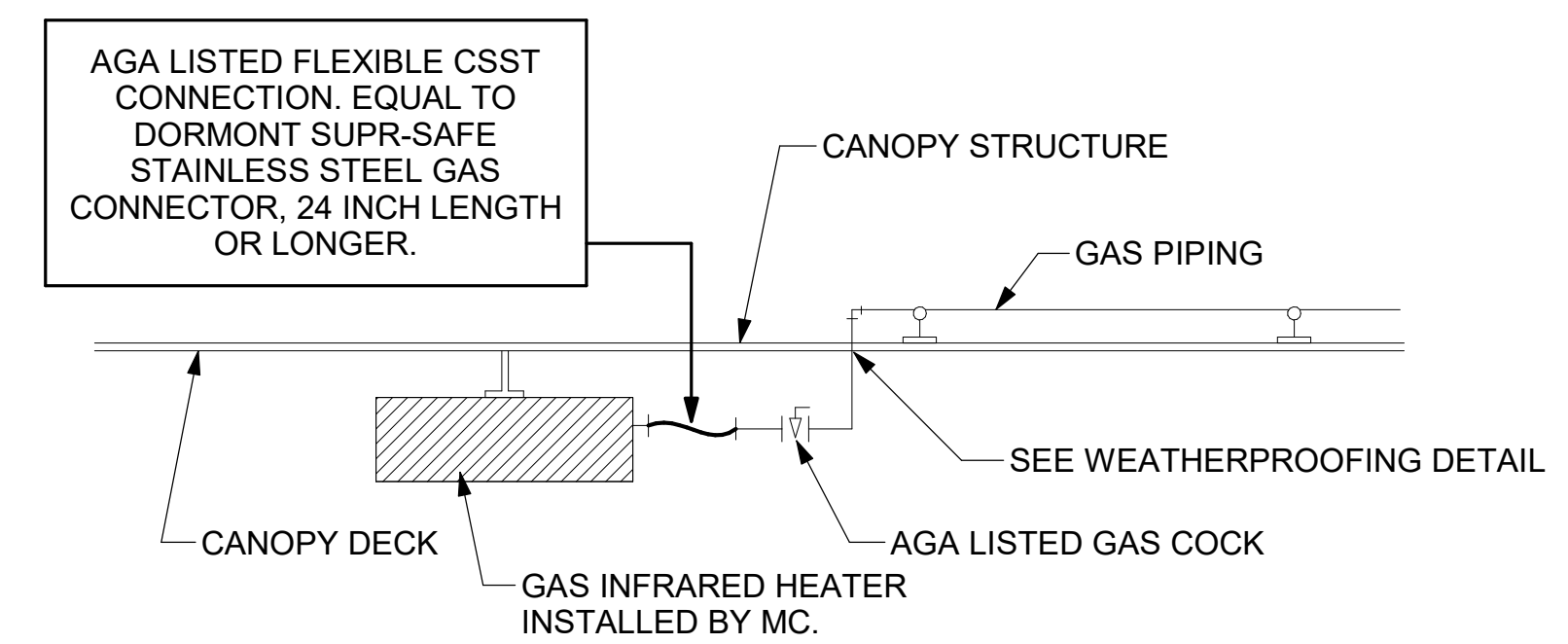


**3 GAS PIPING AT RTU**  
NOT TO SCALE

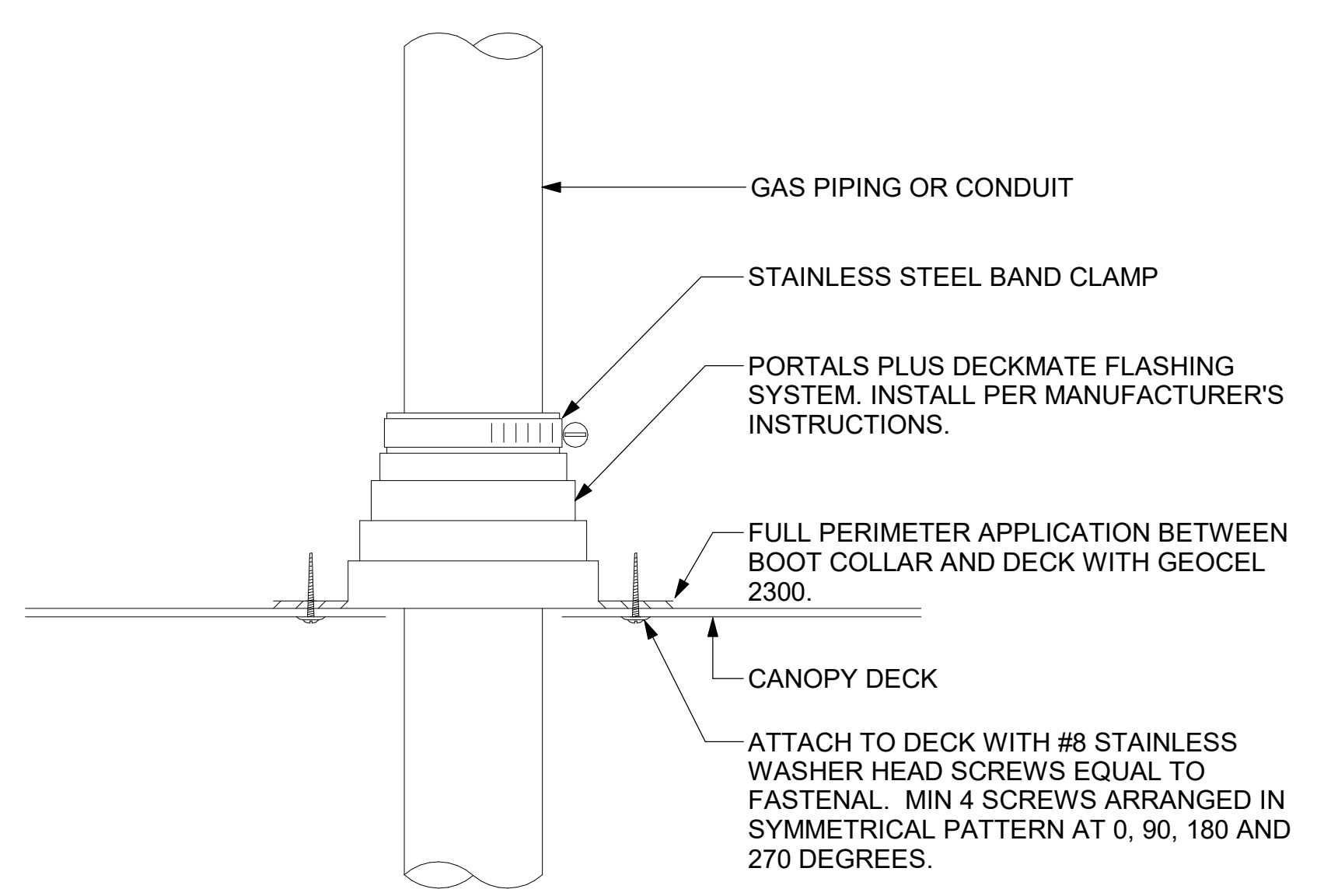
OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.



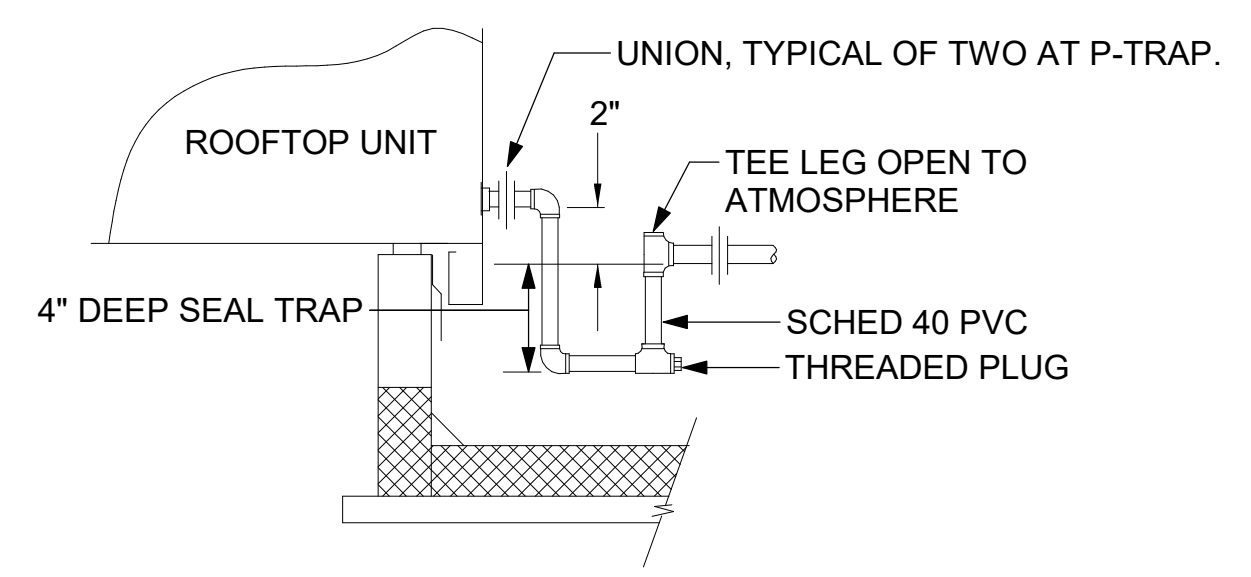
**2 GAS PIPE DROP TO WATER HEATER**  
NOT TO SCALE



**1 GAS CONNECTION AT APPLIANCE**  
NOT TO SCALE

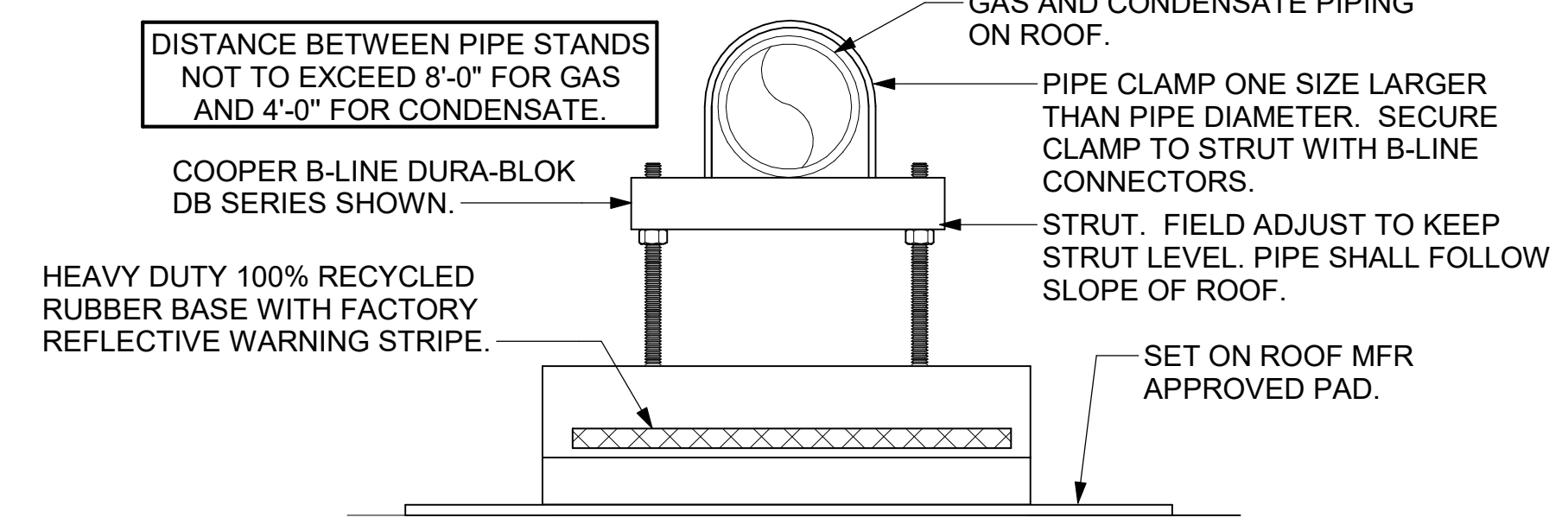


**6 WEATHERPROOFING AT CANOPY PENETRATION**  
NOT TO SCALE

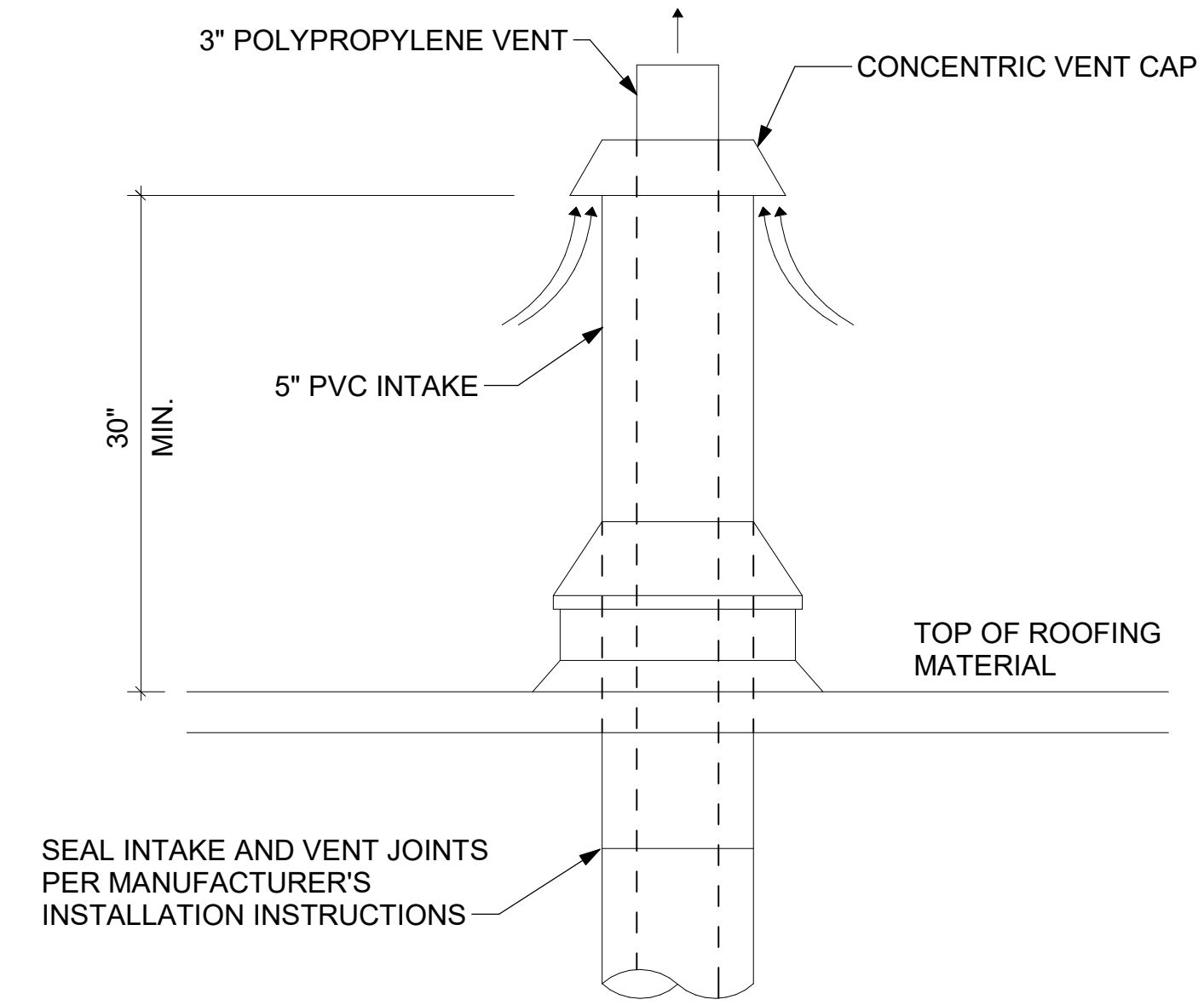


**5 CONDENSATE DRAIN PIPING**  
NOT TO SCALE

- NOTES:**
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
  2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
  3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



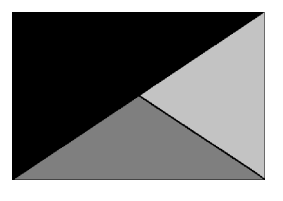
**4 PIPING SUPPORT ON ROOF**  
NOT TO SCALE



**7 WATER HEATER VENT ROOF PENETRATION**  
NOT TO SCALE



**Chick-fil-A**  
**Chick-fil-A**  
**5200 Buffington Road**  
**Atlanta, Georgia**  
**30349-2998**



**Kurzynske & Associates**  
 2705 Lebanon Pike - Suite One  
 Nashville, Tennessee 37214  
 Telephone: (615) 255-5203



**CHICK-FIL-A**  
**HWY 280 AT CRAWFORD**  
**RD**  
**1132 US Highway 280/431**  
**Phenix City, AL 36867**

**FSR#05616**

BUILDING TYPE / SIZE: P14 LE BN  
 RELEASE: 23.11

PRINTED FOR CONSTRUCTION

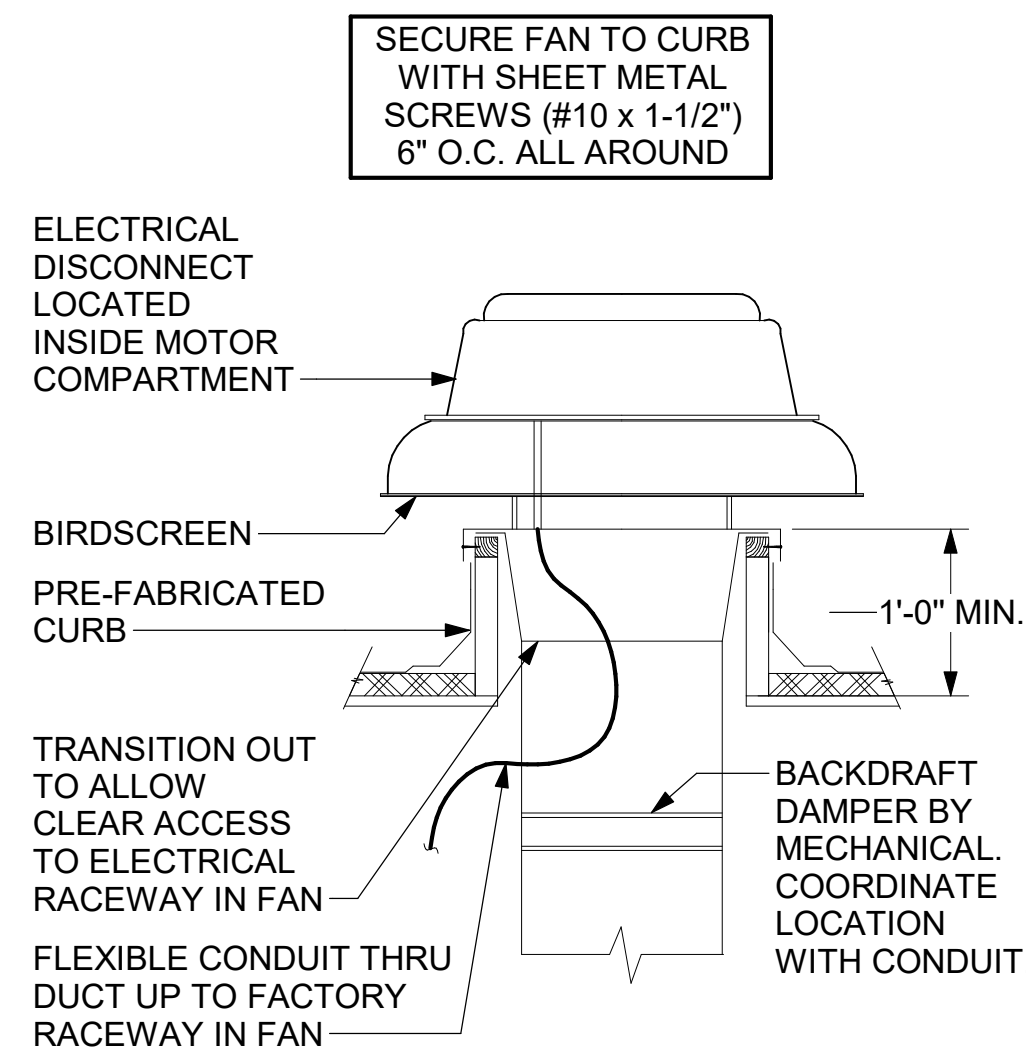
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24046.CC.S  
 DATE 05/10/2024  
 DRAWN BY BLM

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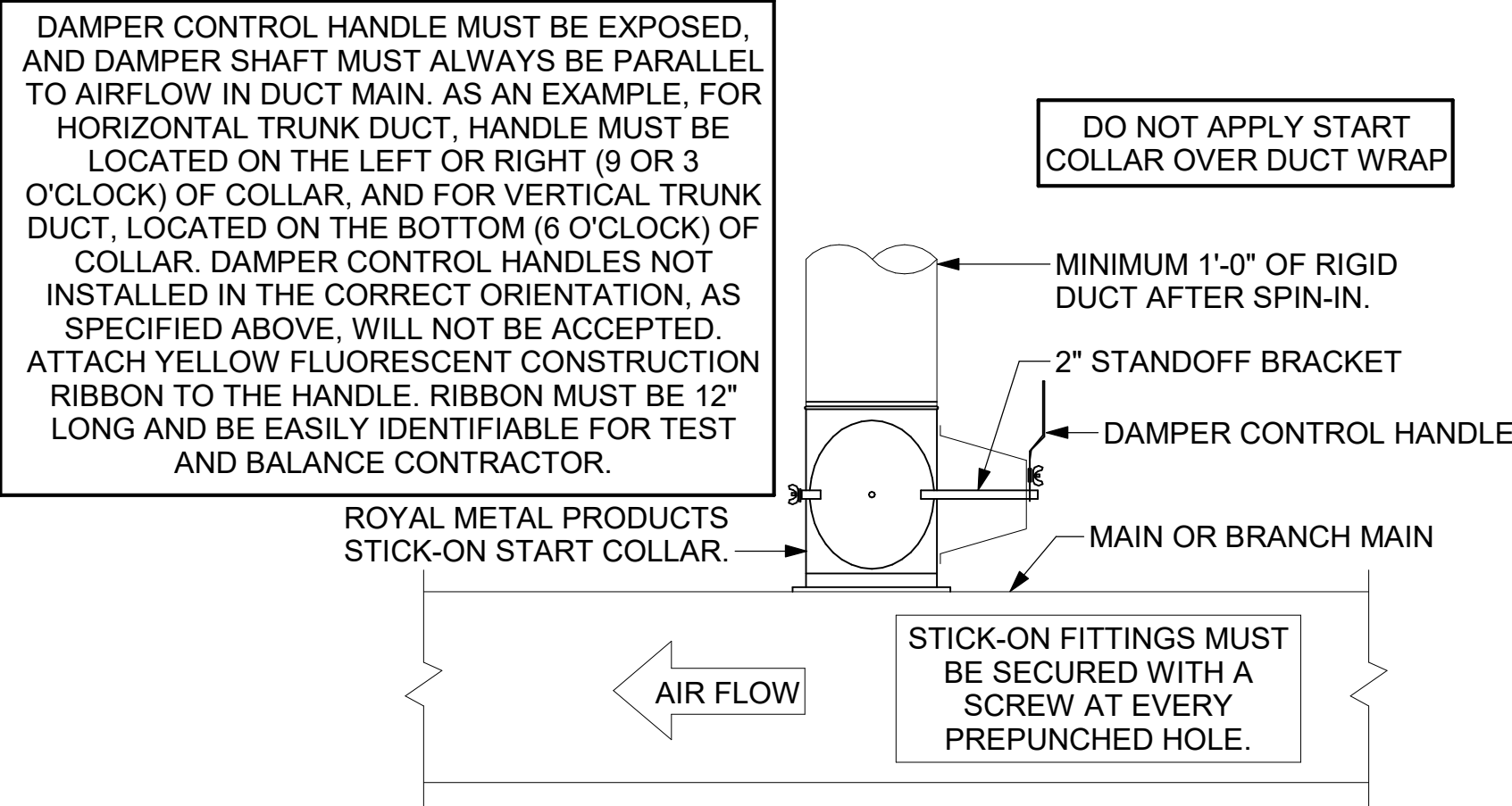
SHEET DETAILS  
 SHEET NUMBER

**M-502**

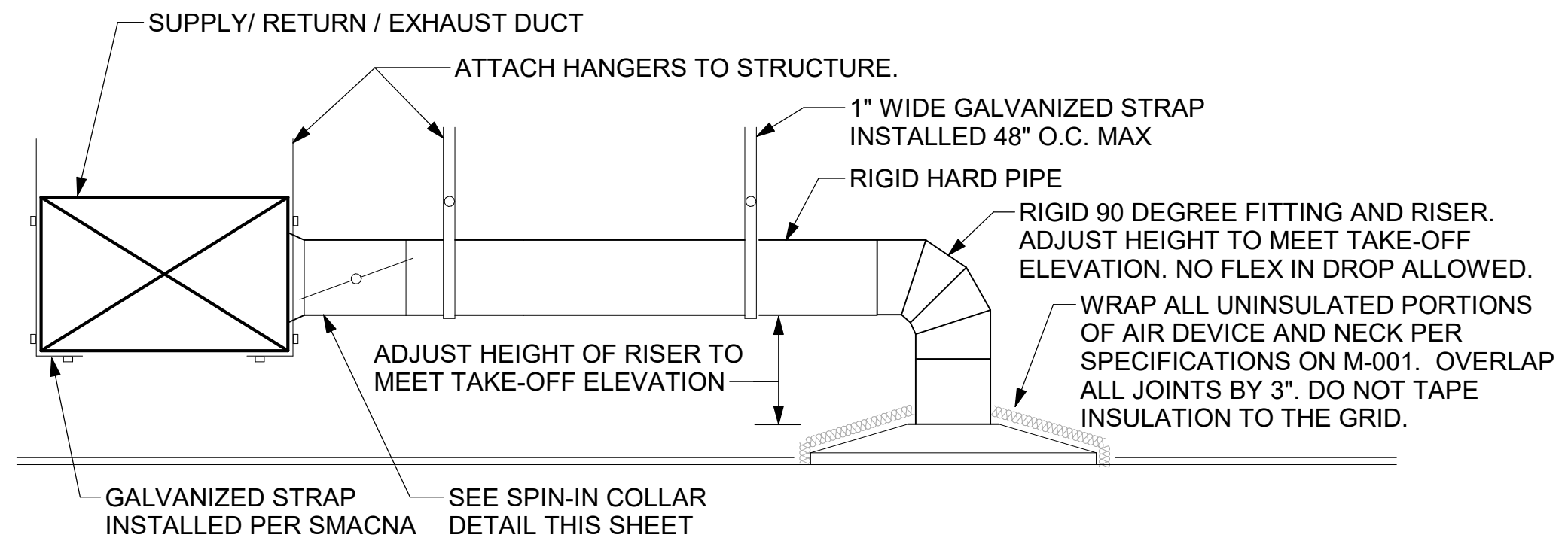


3 RESTROOM EXHAUST FAN  
NOT TO SCALE

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

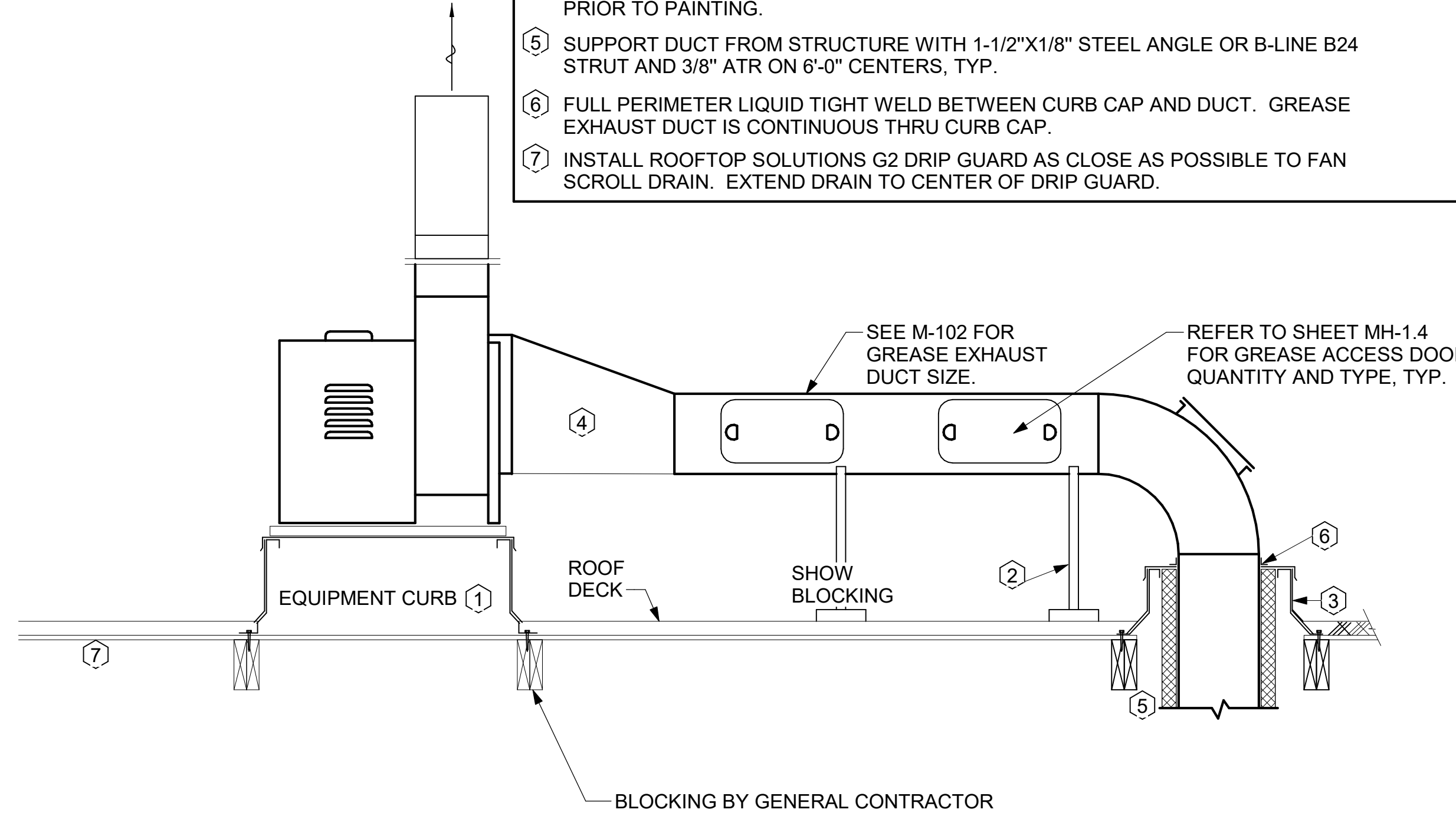


2 START COLLAR  
NOT TO SCALE

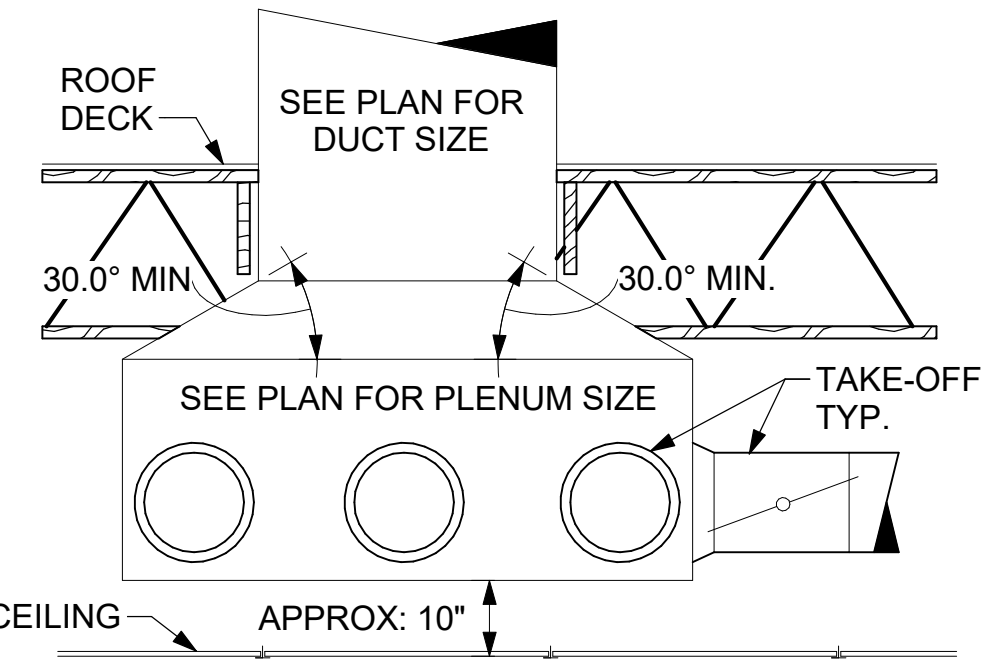


1 SAG/RAG/GRILLE TAKE-OFF  
NOT TO SCALE

- KEYED NOTES:
- 22" EQUIPMENT CURB FURNISHED BY HALTON.
  - DUCT SUPPORT SHALL BE PROVIDED EVERY 8', AND WITHIN 12" OF ANY FITTING OR WELD SEAM. SUPPORTS SHALL BE SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY, WIND, AND SEISMIC LOADS PER CODE.
  - 12" HIGH INSULATED CURB FURNISHED BY HALTON. MECHANICAL CONTRACTOR TO PROVIDE MINIMUM 18 GA STAINLESS STEEL CURB CAP AND FLASHING.
  - ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.
  - SUPPORT DUCT FROM STRUCTURE WITH 1-1/2"x1/8" STEEL ANGLE OR B-LINE B24 STRUT AND 3/8" ATR ON 6'-0" CENTERS, TYP.
  - FULL PERIMETER LIQUID TIGHT WELD BETWEEN CURB CAP AND DUCT. GREASE EXHAUST DUCT IS CONTINUOUS THRU CURB CAP.
  - INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD AS CLOSE AS POSSIBLE TO FAN SCROLL DRAIN. EXTEND DRAIN TO CENTER OF DRIP GUARD.



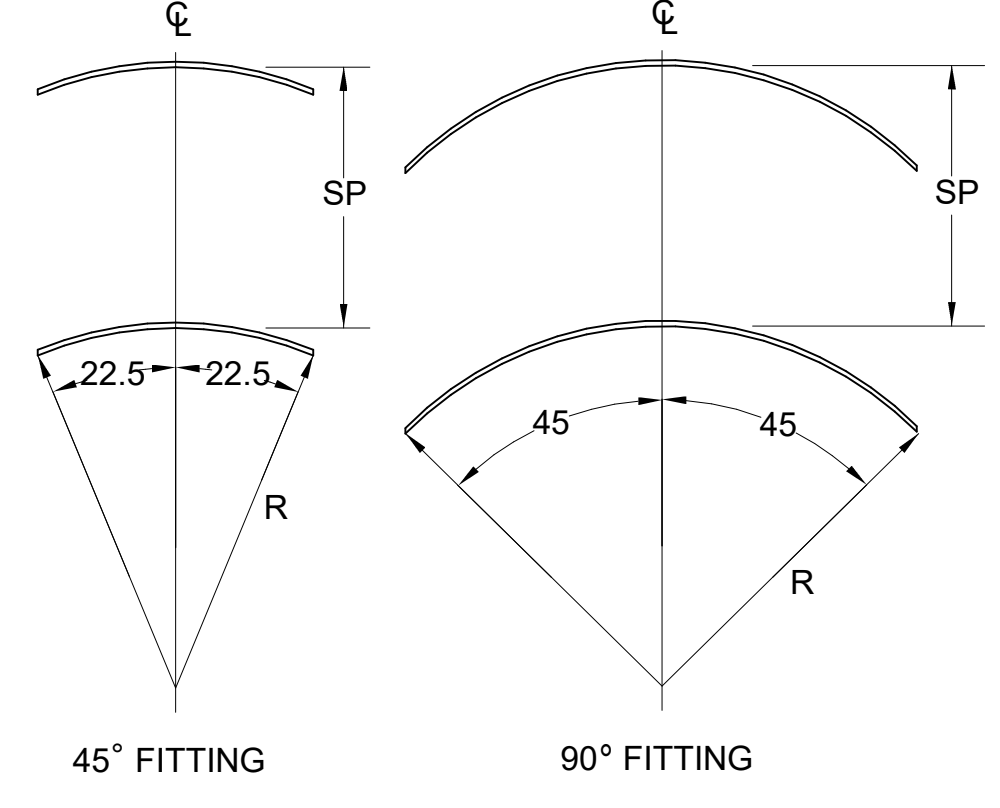
6 KITCHEN HOOD EXHAUST FAN  
NOT TO SCALE



5 RETURN DROP GEOMETRY  
NOT TO SCALE

TURNING VANE SCHEDULE		
R	SP	GA
2"	1.5"	24

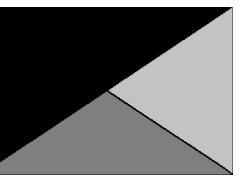
1. NO TRAILING EDGE.  
2. SINGLE THICKNESS CONSTRUCTION.



4 TURNING VANES  
NOT TO SCALE



**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia  
30349-2998



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2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
**HWY 280 AT CRAWFORD**  
**RD**  
1132 US Highway 280/431  
Phenix City, AL 36867

**FSR#05616**

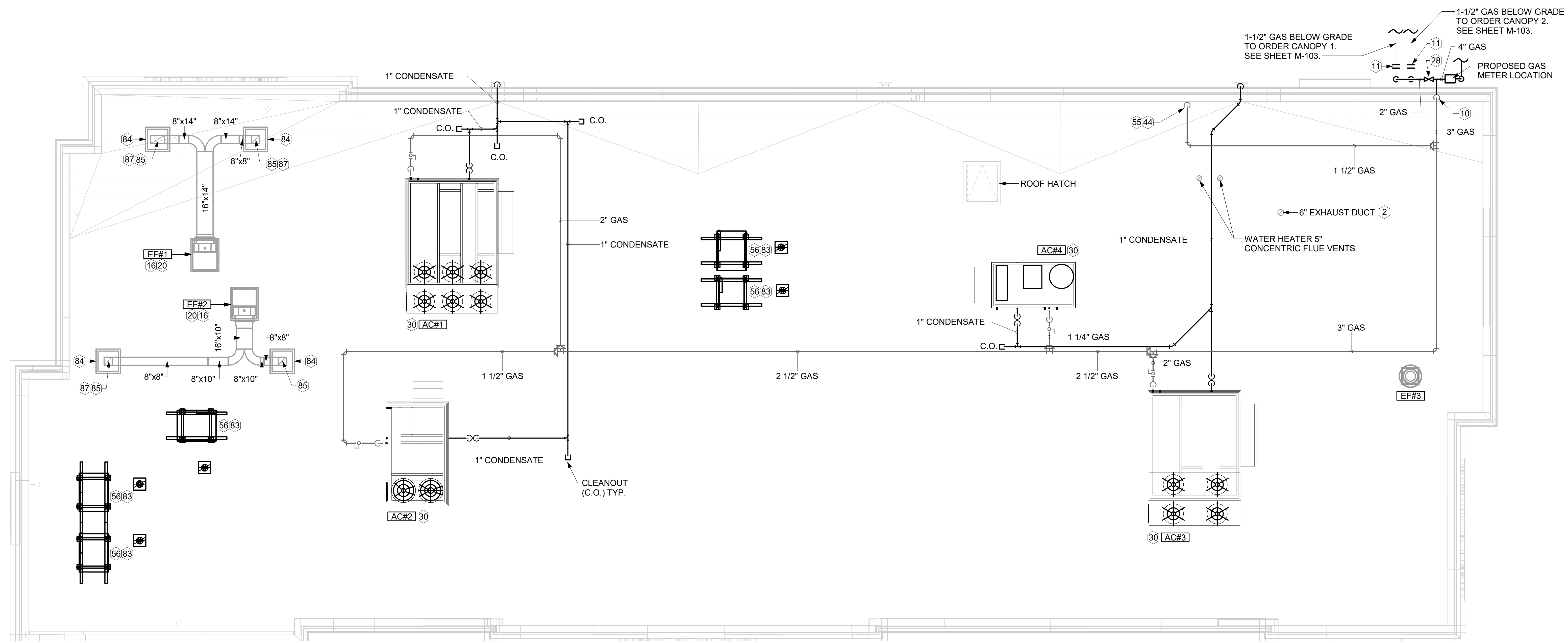
BUILDING TYPE / SIZE: P14 LE BN  
RELEASE: 23.11  
PRINTED FOR CONSTRUCTION  
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24046.CC.S  
DATE 05/10/2024  
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SHEET DETAILS

SHEET NUMBER  
**M-501**



**1 EQUIPMENT ROOF PLAN - LENNOX**  
1/4" = 1'-0"

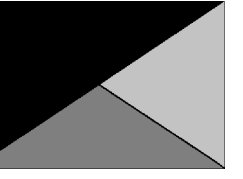
**KEY NOTES**

- 2 PROVIDE DUCT AS SHOWN. TERMINATE DUCT 24" ABOVE ROOF WITH ALUMINUM WEATHER CAP WITH INTEGRAL BIRD SCREEN. EXHAUST DUCT DISCHARGE SHALL BE LOCATED A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
- 10 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.
- 11 ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.
- 16 VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET.
- 28 PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WINGS HANDLE OPTION ABOVE GRADE AT THE METER. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY HEATERS."
- 30 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
- 44 1-1/2" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 2/M-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION.
- 55 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.
- 56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURERED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.
- 83 DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.
- 84 ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 85 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.
- 87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

3. GAS LOAD SCHEDULE	
EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	240,000 BTUS
AC#3	480,000 BTUS
AC#4	150,000 BTUS
IRH (4 @ 50,000 BTU EA.)	200,000 BTUS
IRH (FUTURE 8 @ 50,000 BTU EA.)	400,000 BTUS
WATER HEATER (WH-1)	398,000 BTUS
<b>TOTAL FUTURE CONNECTED LOAD</b>	<b>2,348,000 BTUS</b>
REMARKS:	1. EQUIVALENT TO 2,348.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 200 FT. (METER TO AC#2) 4. GAS PIPING SIZED FOR FUTURE LOAD



**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia  
30349-2998



**Kurzynske & Associates**  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
**HWY 280 AT CRAWFORD**  
**RD**  
1132 US Highway 280/431  
Phenix City, AL 36867

**FSR#05616**

BUILDING TYPE / SIZE: P14 LE BN  
RELEASE: 23.11  
PRINTED FOR:  
CONSTRUCTION  
REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24046.CC.S  
DATE 05/10/2024  
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SHEET  
EQUIPMENT ROOF PLAN - LENNOX

SHEET NUMBER

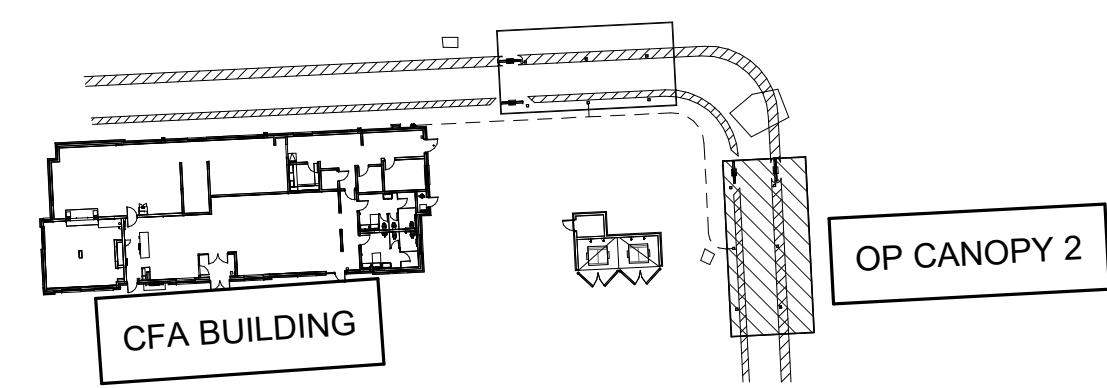
**M-102**

**KEY NOTES**

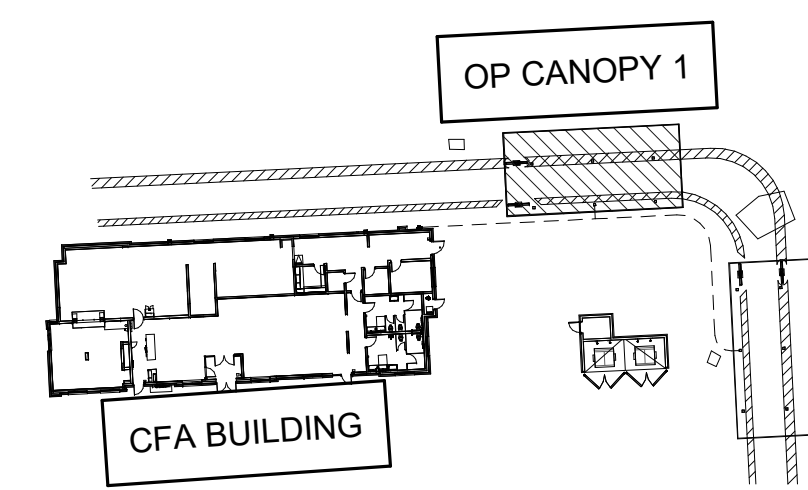
- 75 GAS-FIRED INFRARED HEATER. MC TO ATTACH TO MOUNTING PLATE ON CANOPY. MOUNTING PLATE IS PROVIDED AND INSTALLED BY THE CANOPY MFR. TYPICAL AT ALL IR HEATERS.
- 76 MECHANICAL CONTRACTOR TO PROVIDE SS HEAT SHIELD. HEAT SHIELD TO SET ON TOP OF IR HEATER ON THE FACTORY HEATER MOUNTING STUDS. SHIELD TO BE ORIENTED SO EDGE IS TURNED DOWN. TYPICAL AT ALL IR HEATERS.
- 95 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.
- 96 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/M-502, TYPICAL.
- 97 SEE DETAIL 1/M-502 FOR PIPING AT IRH, TYPICAL.
- 98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.

**CANOPY GENERAL NOTES**

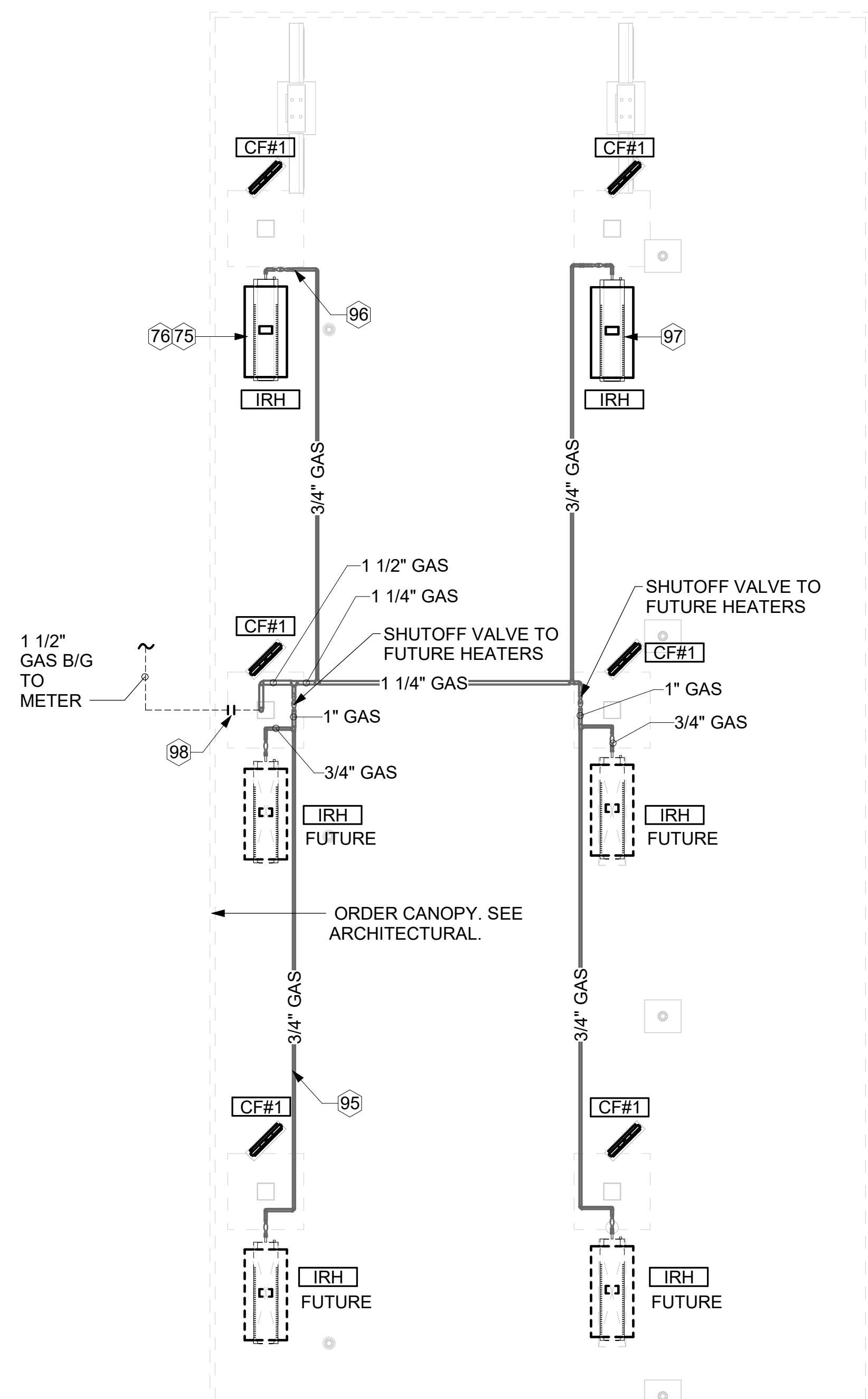
- 1. COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
- 2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
- 3. EXPOSED GAS PIPING SHALL BE COVERED WITH A RUST INHIBITING PAINT SUCH AS RUST-OLEUM 5200. PAINT COLOR SHALL MATCH STRUCTURE. ROOF MOUNTED GAS PIPING COLOR SHALL BE YELLOW.
- 4. CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).



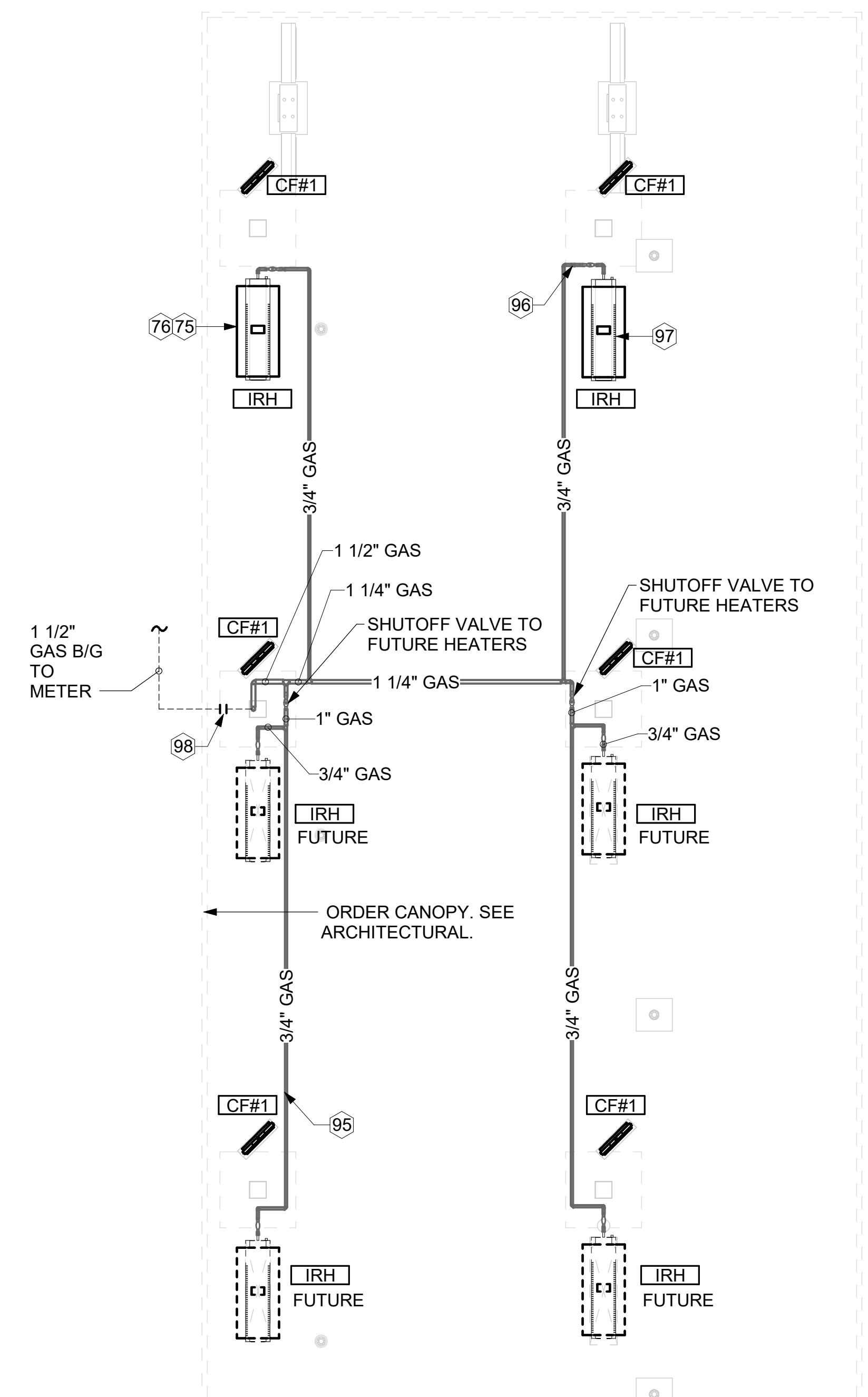
CONTROL WIRING FOR HEATERS BY EC TO BE ROUTED IN SAME CONDUIT AS POWER FOR LIGHTING COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.



CONTROL WIRING FOR HEATERS BY EC TO BE ROUTED IN SAME CONDUIT AS POWER FOR LIGHTING COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.



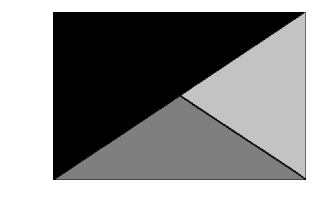
**2 ORDER CANOPY 2 PLAN**  
1/4" = 1'-0"



**1 ORDER CANOPY 1 PLAN**  
1/4" = 1'-0"



**Chick-fil-A**  
5200 Buffington Road  
Atlanta, Georgia  
30349-2998



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Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
**HWY 280 AT CRAWFORD**  
**RD**  
1132 US Highway 280/431  
Phenix City, AL 36867

**FSR#05616**

BUILDING TYPE / SIZE: P14 LE BN  
RELEASE: 23.11  
PRINTED FOR:  
CONSTRUCTION

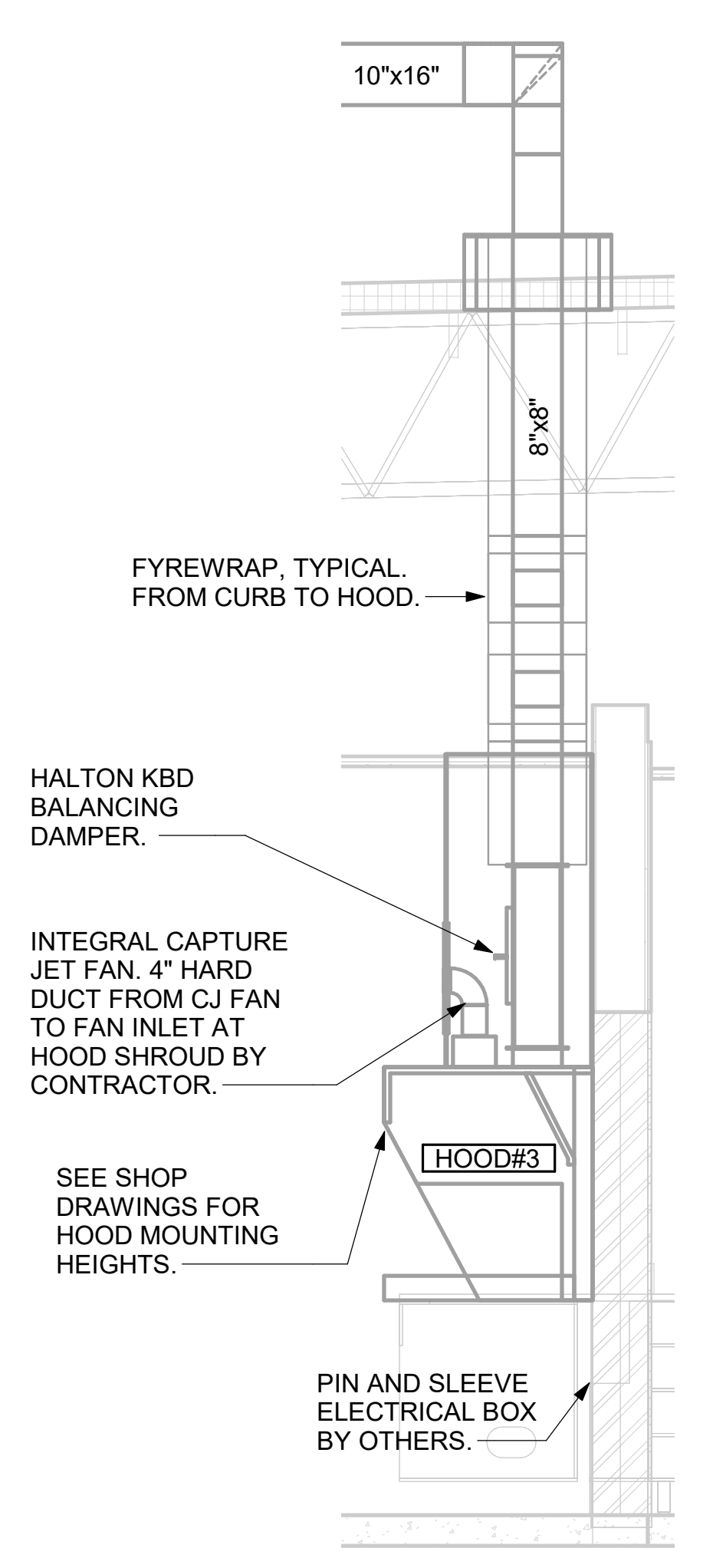
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 24046.CC.S  
DATE 05/10/2024  
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SHEET  
**CANOPY HVAC PLAN**

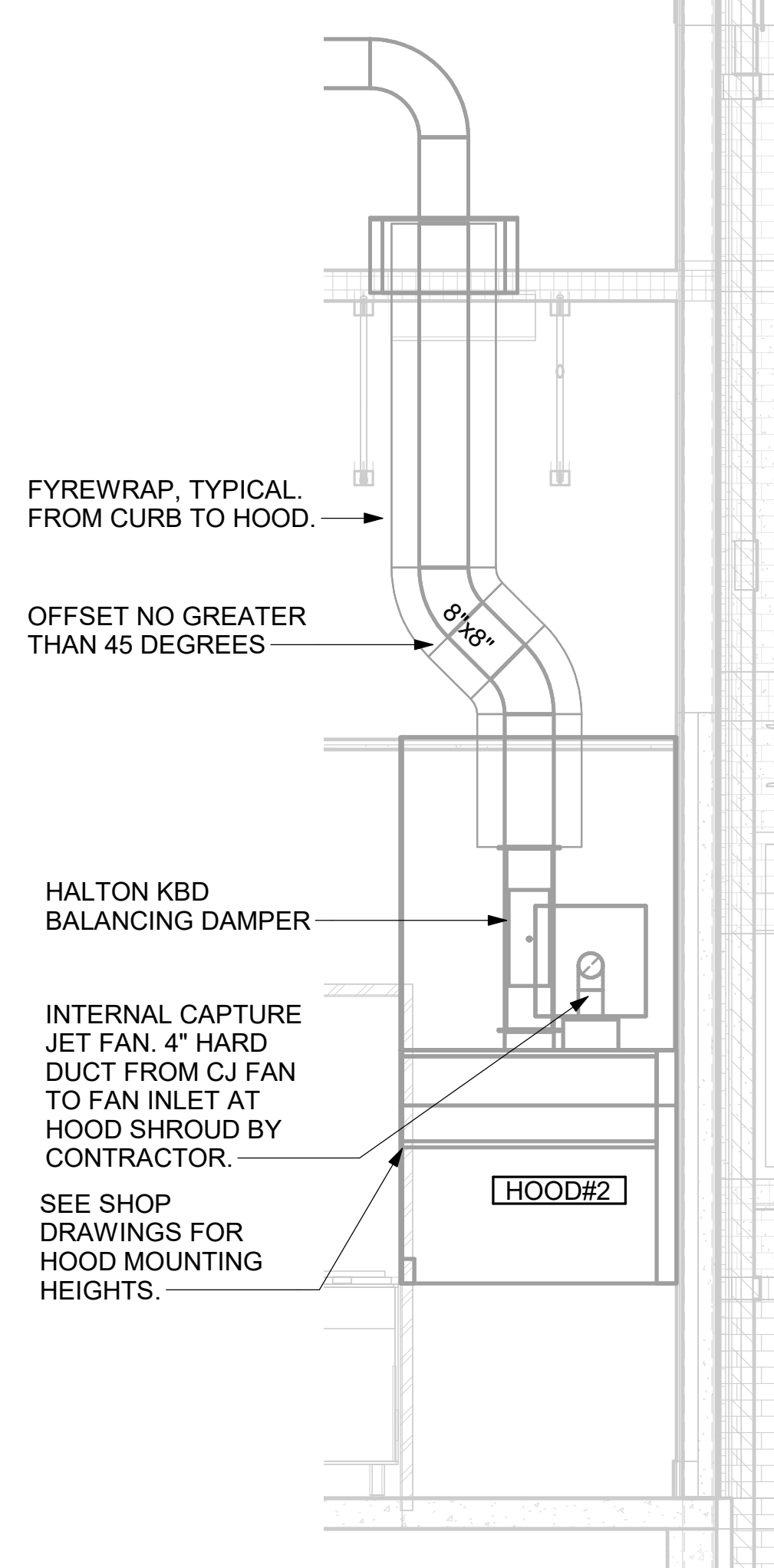
SHEET NUMBER  
**M-103**

CRITICAL:  
MOUNT RIGHT SIDE OF HOOD#3  
FLUSH WITH FINISHED EDGE  
OF PASS THRU OPENING.



6 HOOD ELEVATION - HOOD#3  
NOT TO SCALE

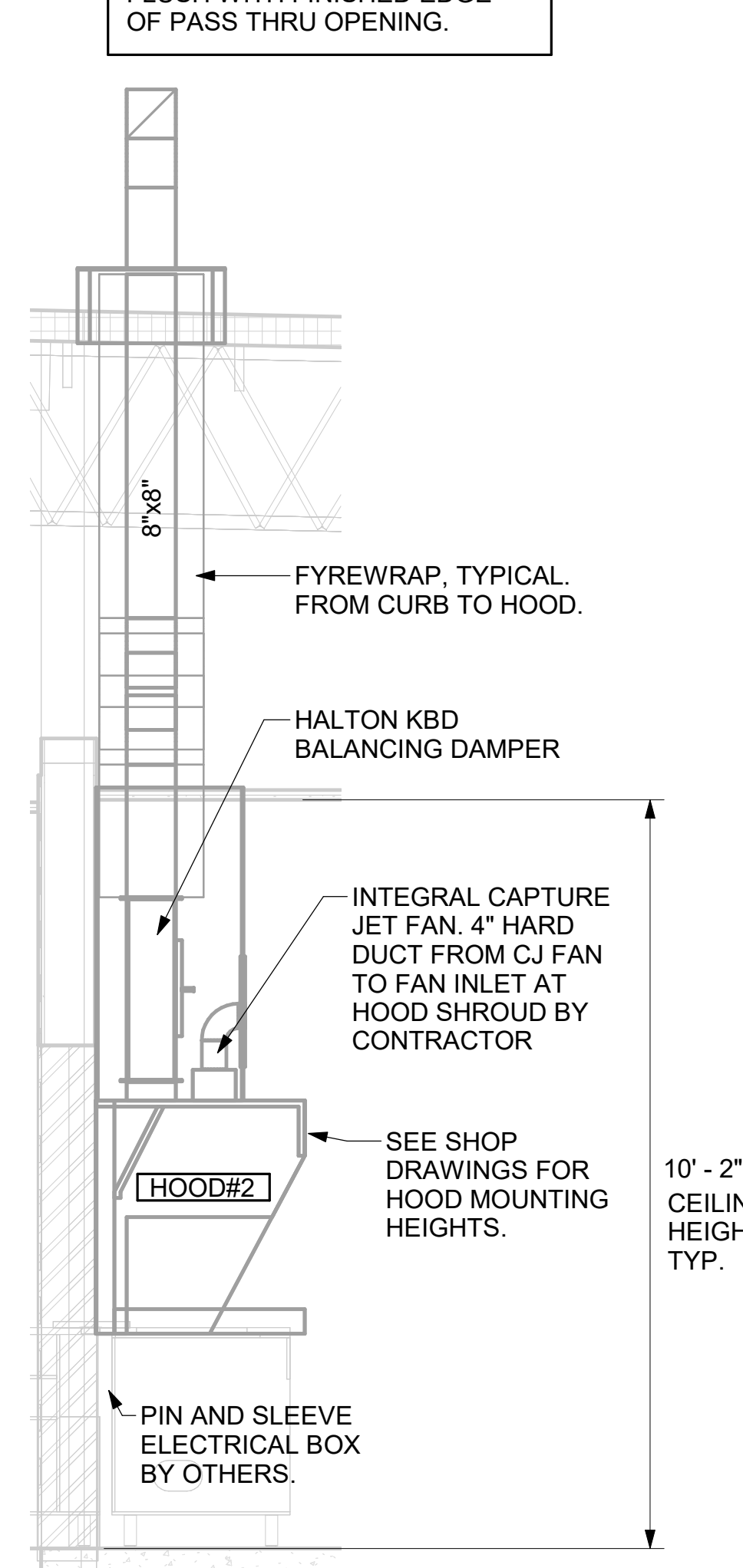
CRITICAL:  
MOUNT LEFT SIDE OF HOOD#2  
FLUSH WITH FINISHED EDGE  
OF PASS THRU OPENING.



5 HOOD ELEVATION - HOOD#2 - FRONT  
NOT TO SCALE

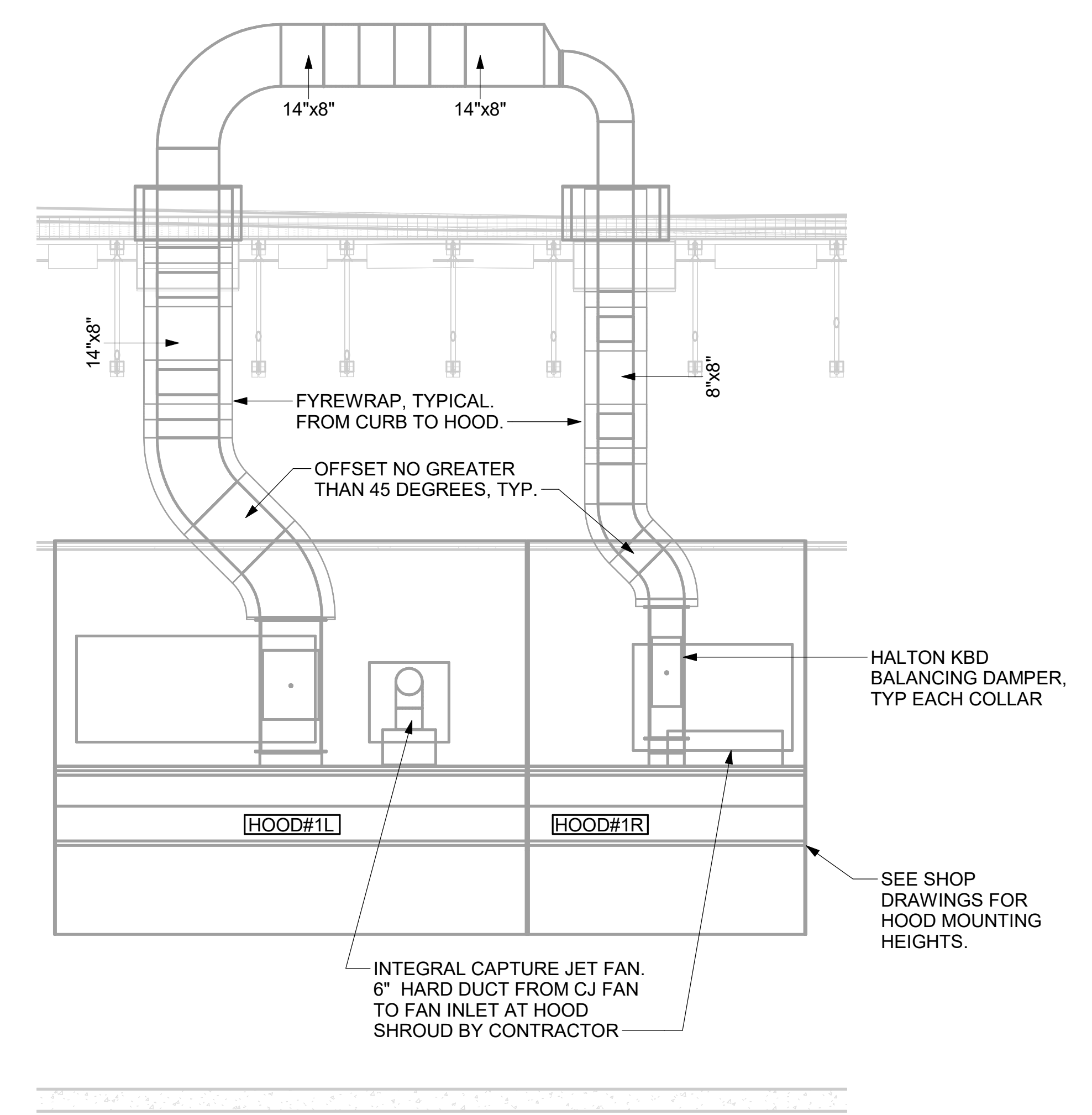
GREASE EXHAUST DUCT CLEARANCE NOTE:  
CLEARANCES ABOVE CEILING ARE TIGHT.  
MECHANICAL CONTRACTOR TO FIELD VERIFY  
EXACT ROUTING AND CLEARANCES PRIOR TO  
FABRICATING GREASE EXHAUST DUCT.

CLEANOUT DOOR NOTE:  
DUCT WRAP SHALL BE APPLIED TO THE  
CLEANOUT DOOR PER THE WRAP MFR'S  
INSTALLATION INSTRUCTIONS. NO EXCEPTIONS.  
ALSO, THE CLEANOUT DOOR MUST BE  
REMOVABLE WITHOUT TOOLS AND MUST BE  
CLEARLY AND PERMANENTLY LABELED.

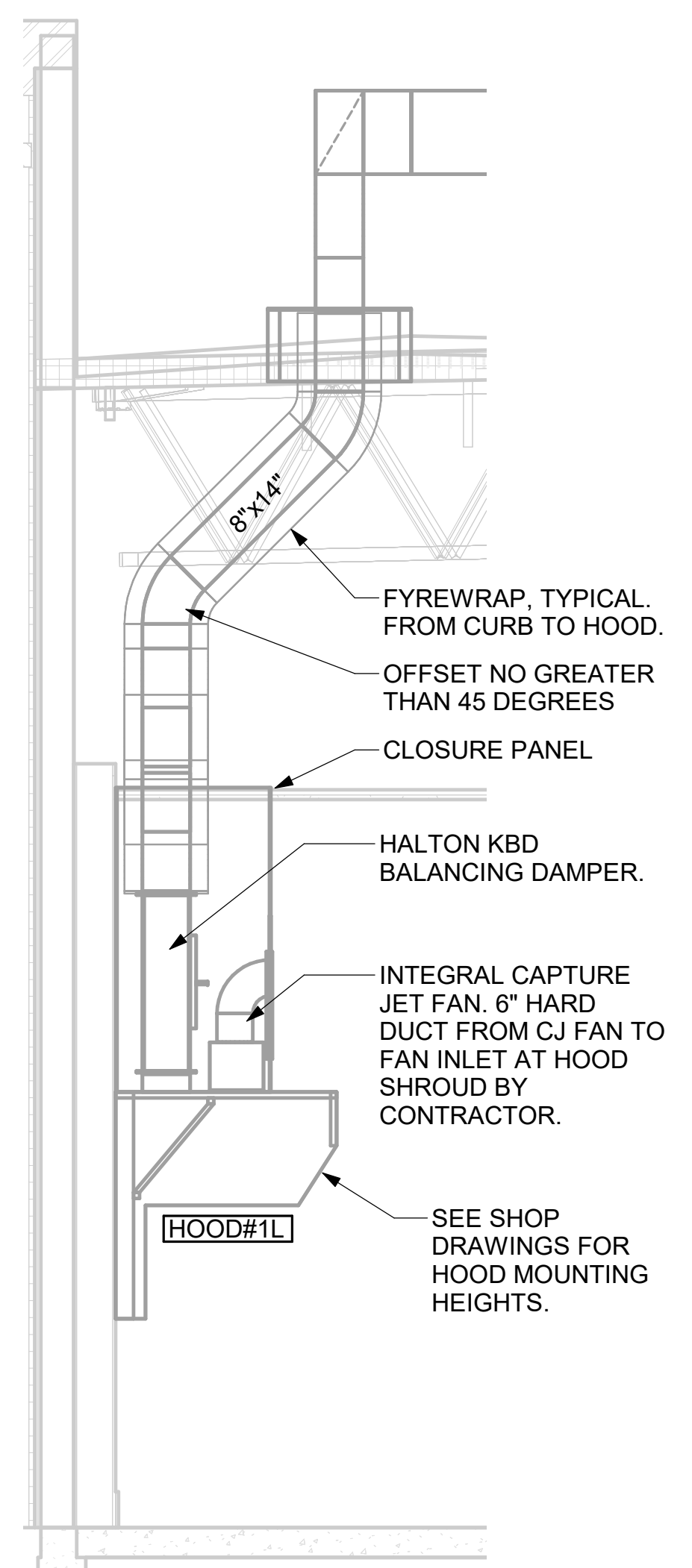


4 HOOD ELEVATION - HOOD#2 - SIDE  
NOT TO SCALE

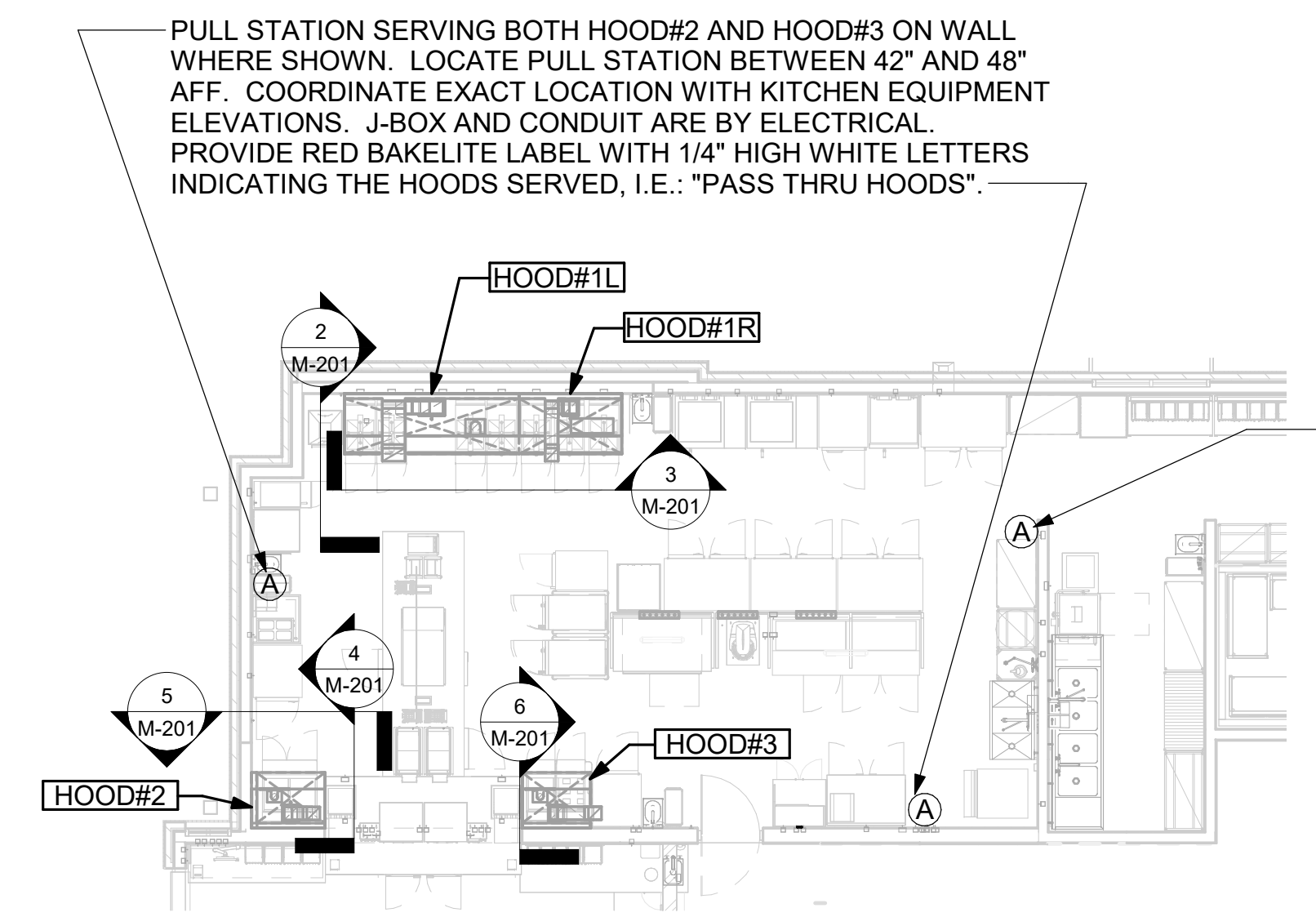
PER THE AHJ, A LIGHT TEST  
WILL BE REQUIRED ON THE  
GROUND PRIOR TO INSTALLING



3 HOOD ELEVATION - HOOD#1 - FRONT  
NOT TO SCALE



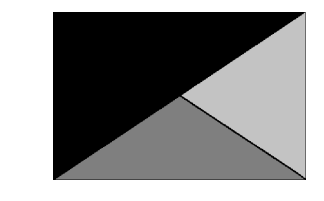
2 HOOD ELEVATION - HOOD#1 - SIDE  
NOT TO SCALE



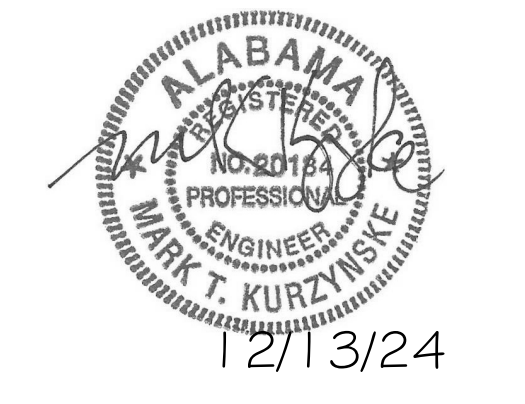
1 HOOD LAYOUT  
1/8" = 1'-0"



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**FSR#05616**  
BUILDING TYPE / SIZE: P14 LE BN  
RELEASE: 23.11  
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CONSTRUCTION  
REVISION SCHEDULE  
NO. DATE DESCRIPTION  
1 09/20/2024 Plan Review  
Comments

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DATE 05/10/2024  
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SHEET  
EXHAUST HOOD  
ELEVATIONS  
SHEET NUMBER  
**M-201**