



Chick-fil-A

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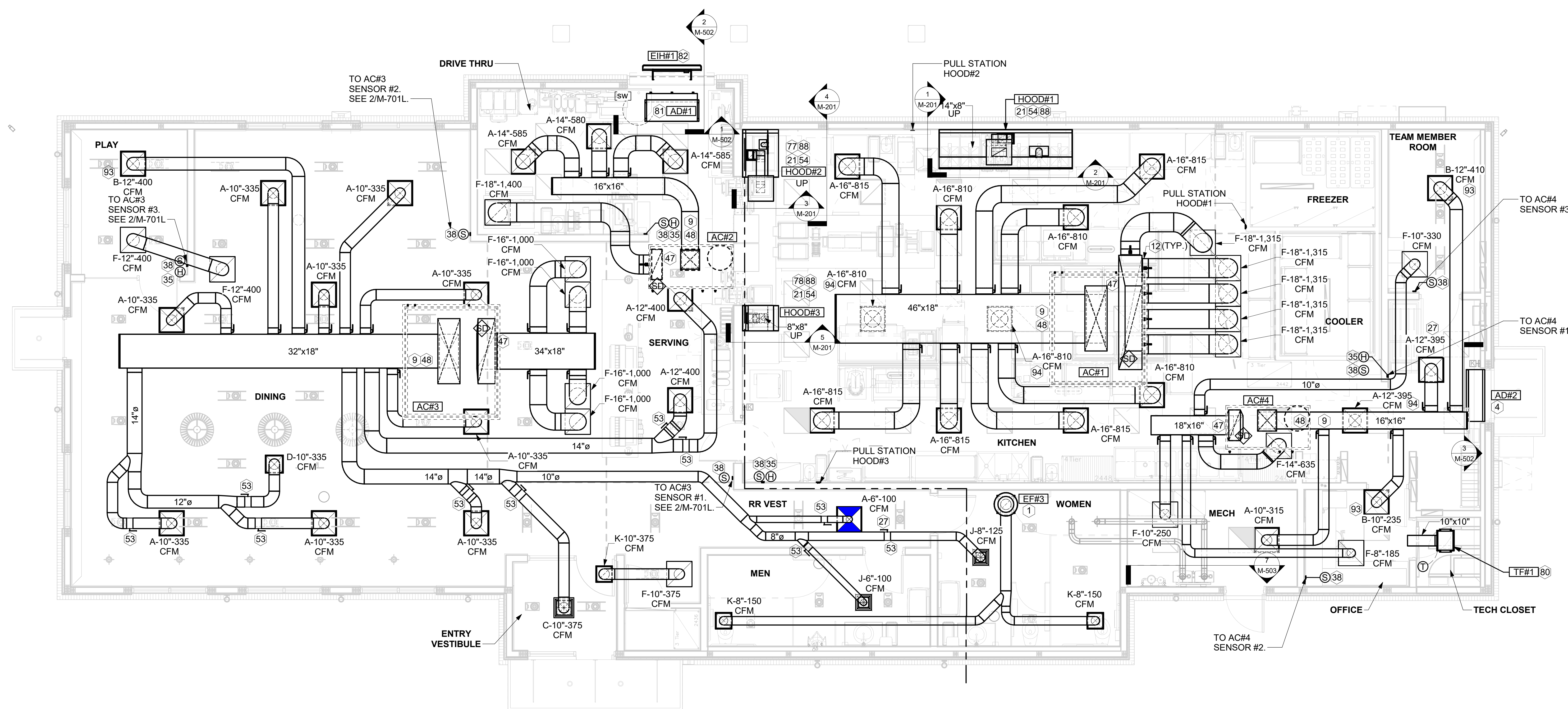
CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

FSR#05792
BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02

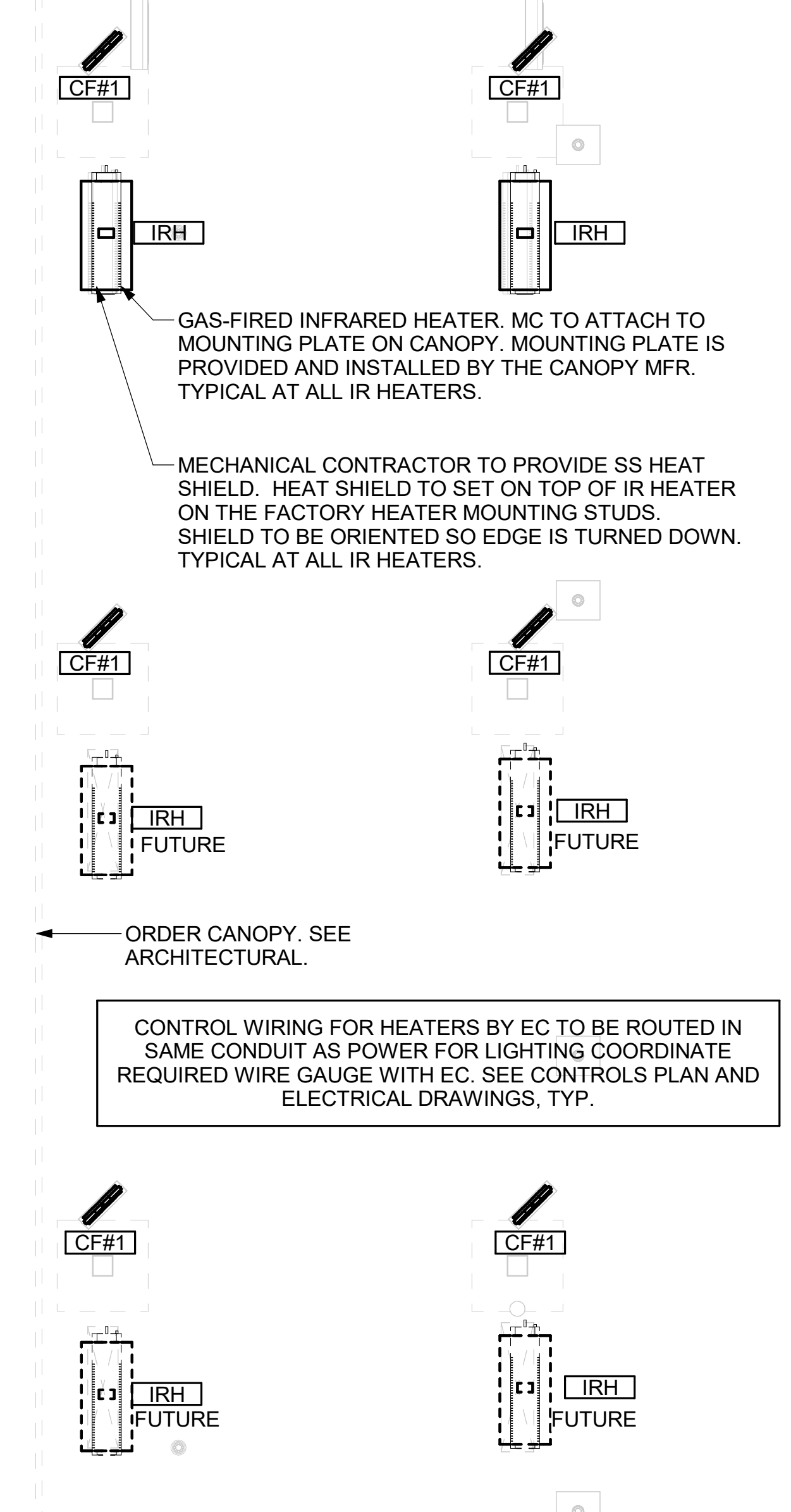
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024
DRAWN BY BRM
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EQUIPMENT AND DUCTWORK PLAN - LENNOX
SHEET NUMBER

M-101L



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



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

AIR BALANCE SCHEDULE

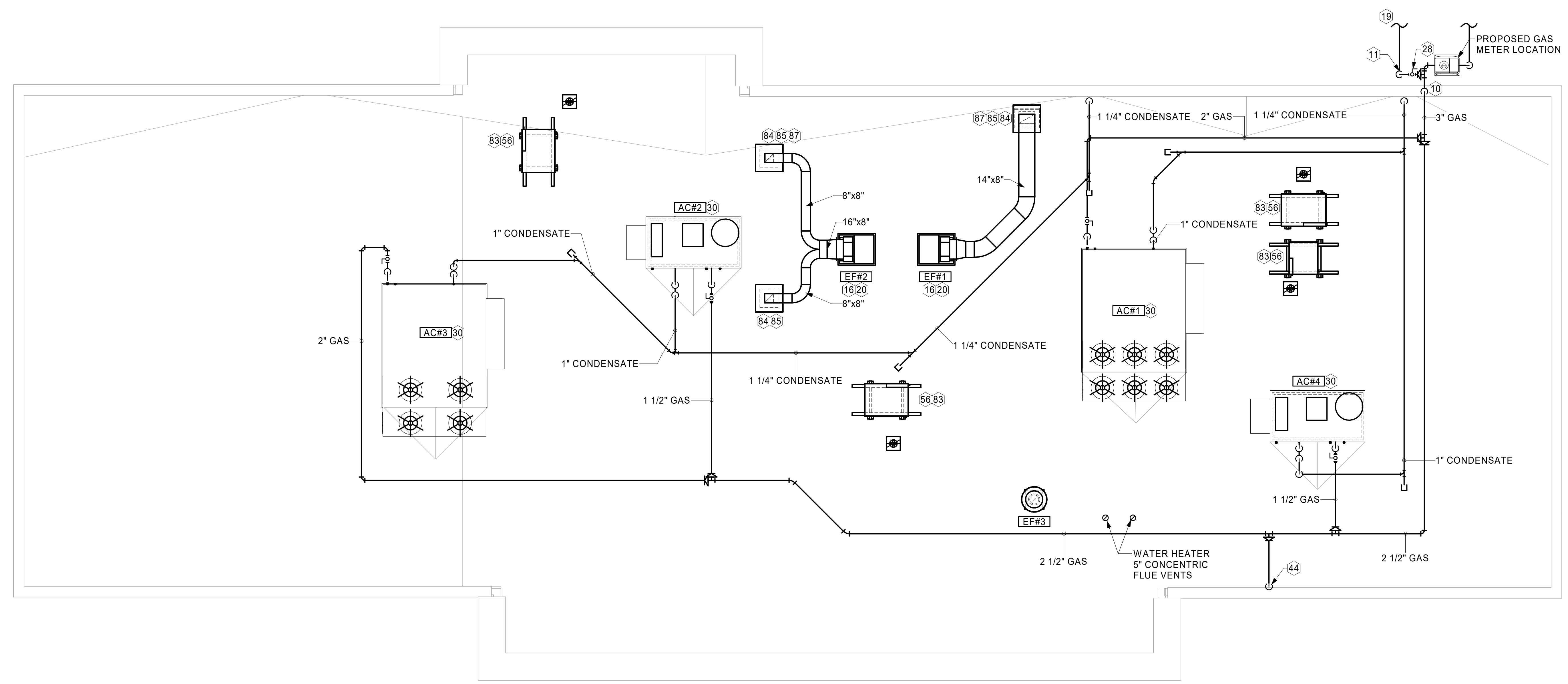
MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
	0 CFM	0 CFM	0 CFM	0 CFM	0 CFM
AC#1	8,125 CFM	6,575 CFM	1,550 CFM	0 CFM	
AC#2	1,750 CFM	1,400 CFM	350 CFM	0 CFM	
AC#3	5,250 CFM	4,000 CFM	1,250 CFM	0 CFM	
AC#4	1,750 CFM	1,400 CFM	350 CFM	0 CFM	
EF#1	0 CFM	0 CFM	0 CFM	1,418 CFM	
EF#2	0 CFM	0 CFM	0 CFM	1,091 CFM	
EF#3	0 CFM	0 CFM	0 CFM	300 CFM	
	16,875 CFM	13,375 CFM	3,500 CFM	2,809 CFM	691 CFM

KEY NOTES

- 1 10" UP THRU ROOF.
- 4 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.
- 9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- 12 DAMPER HANDLES SHOULD BE INSTALLED SUCH THAT THE DAMPERS ROTATION AXIS IS PERPENDICULAR TO THE FLOOR WITH THE HANDLE FULLY ACCESSIBLE UNDERNEATH THE DUCT IT CONTROLS. (TYPICAL OF ALL DAMPERS AT THE SAME PLENUM.)
- 21 HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
- 27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- 35 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 38 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.
- 47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 6/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).
- 48 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).
- 53 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
- 54 SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
- 77 INSTALL LEFT SIDE OF HOOD FLUSH WITH FINISHED EDGE OF PASS-THRU OPENING.
- 78 INSTALL RIGHT SIDE OF HOOD WITH FINISHED EDGE OF PASS-THRU OPENING.
- 80 CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE ABOVE CEILING.
- 81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
- 82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 88 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".
- 93 MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.
- 94 TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.

6/10/2024 11:15:12 AM Autodesk Docs://NE_05792_North Platte (NE) FSU_2024.3_FSR05792_North Platte_NE_MEC.rvt
30-LS-16-24-60002-M-101L-EQUIPMENT AND DUCTWORK PLAN - LENNOX

7/24/2024 4:37:53 PM Autodesk Docs://NE_05792_North Platte (NE) FSU_2024_3_FSR05792_North Platte_NE_MEC.rvt 30-LS-16-24-8002-M-102L-EQUIPMENT ROOF PLAN - LENNOX

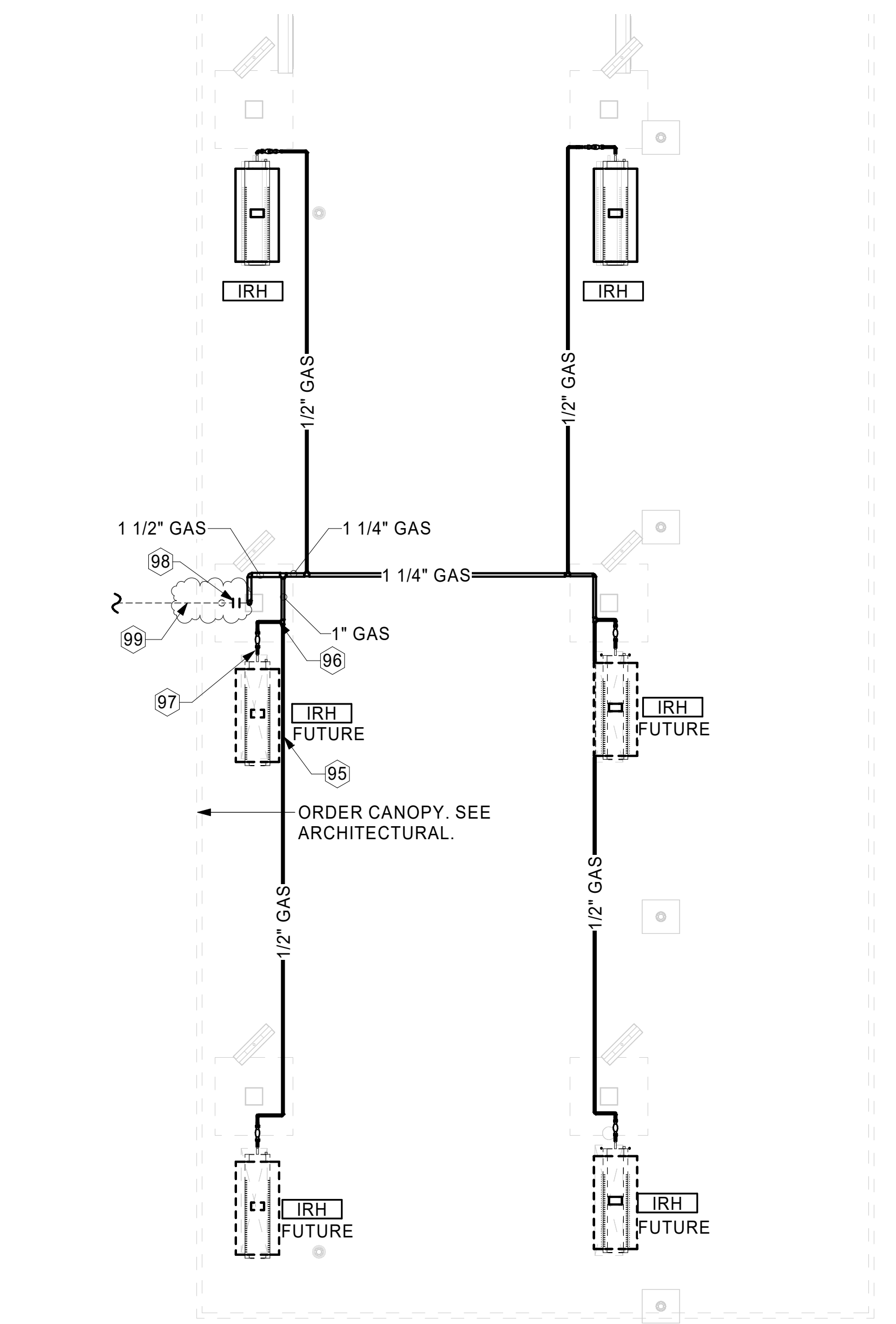


1 EQUIPMENT ROOF PLAN - LENNOX
1/4" = 1'-0"

KEY NOTES

- 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 FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. REFER TO MH-1.3 AND MH-1.4 FOR DETAILS.
- 19 1-1/2" GAS BELOW GRADE TO ORDER CANOPY. SEE DETAIL 2 THIS SHEET.
- 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." LOCATE SHUTOFF VALVE TO BE EASILY ACCESSABLE FROM GROUND LEVEL.
- 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 3/P-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION. WHEN CONTRACTOR OPTS TO PROVIDE ALTERNATIVE WATER-HEATER, INCREASE PIPE SIZE AS NEEDED PER CODE.
- 56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURED 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-1.3 AND MH-1.4 FOR DETAILS.
- 85 TURN DOWN THRU ROOF. SEE M-101/LM-101T FOR CONTINUATION.
- 87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.
- 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-503, TYPICAL.
- 97 SEE DETAIL 1/M-503 FOR PIPING AT IRH, TYPICAL.
- 98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT LOCATED IN GAS PIPE COVER AT CANOPY COLUMN. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WING HANDLE OPTION ABOVE GRADE. LOCATED IN GAS PIPE COVER. REFERENCE DETAIL 9/M-503. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY". FOR TRANSITION TO POLYETHYLENE PIPING B/G TO STEEL ABOVE GRADE, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.
- 99 1-1/2" GAS B/G TO METER SEE 1/M-102L OR 1/M-102T.

3. GAS LOAD SCHEDULE	
EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	150,000 BTUS
AC#3	480,000 BTUS
AC#4	150,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
WATER HEATER	398,000 BTUS
TOTAL BASIS OF DESIGN LOAD	1,758,000 BTUS
TOTAL FUTURE CONNECTED LOAD	1,958,000 BTUS
REMARKS:	1. EQUIVALENT TO 1,958.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 200 FT. (METER TO AC#2) 4. GAS PIPING SIZED FOR FUTURE LOAD



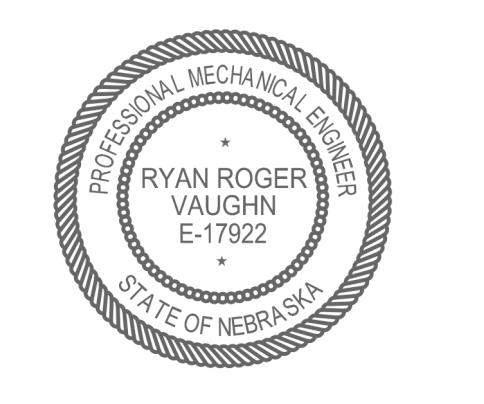
2 ORDER CANOPY GAS PIPING PLAN
1/4" = 1'-0"



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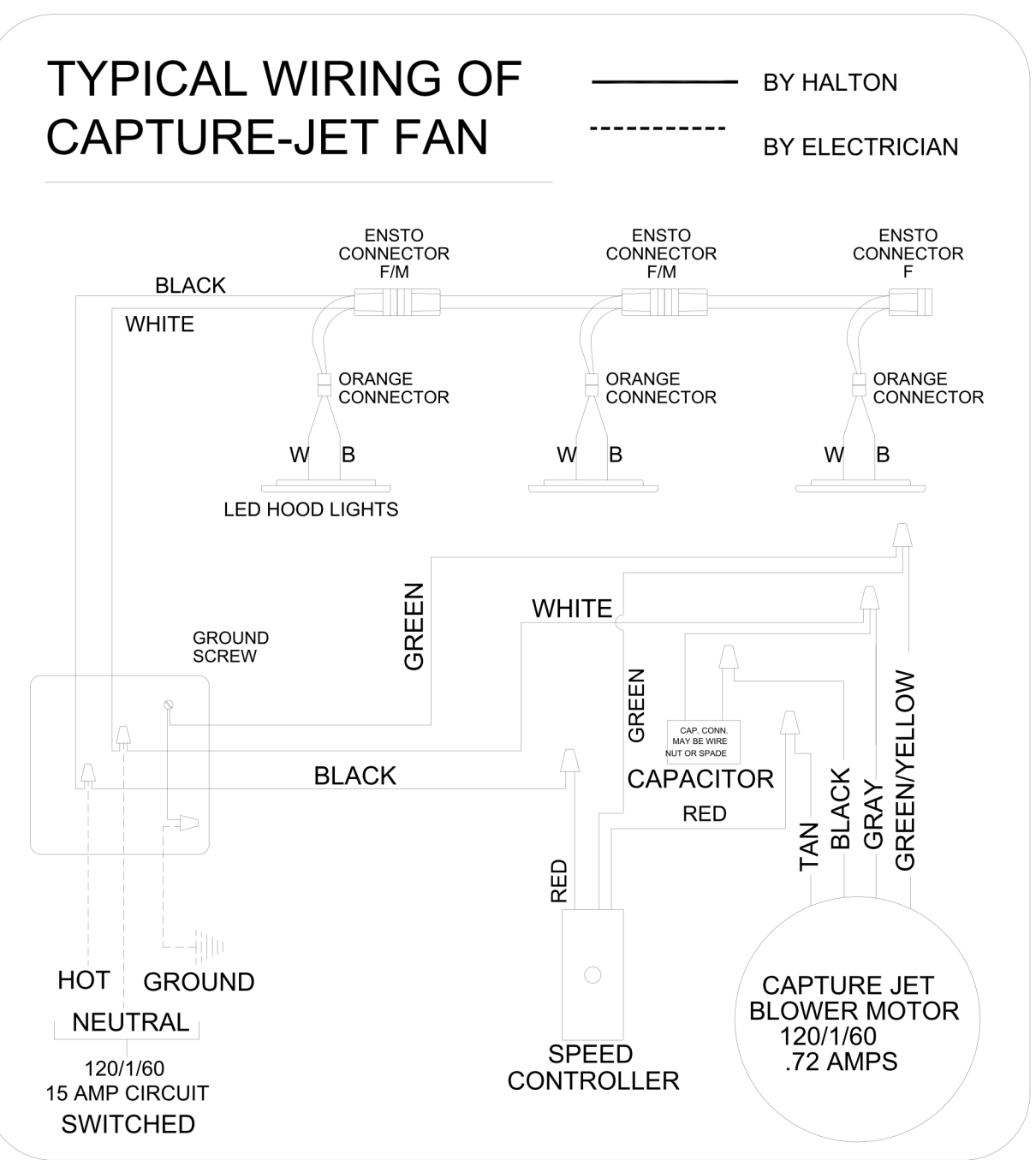
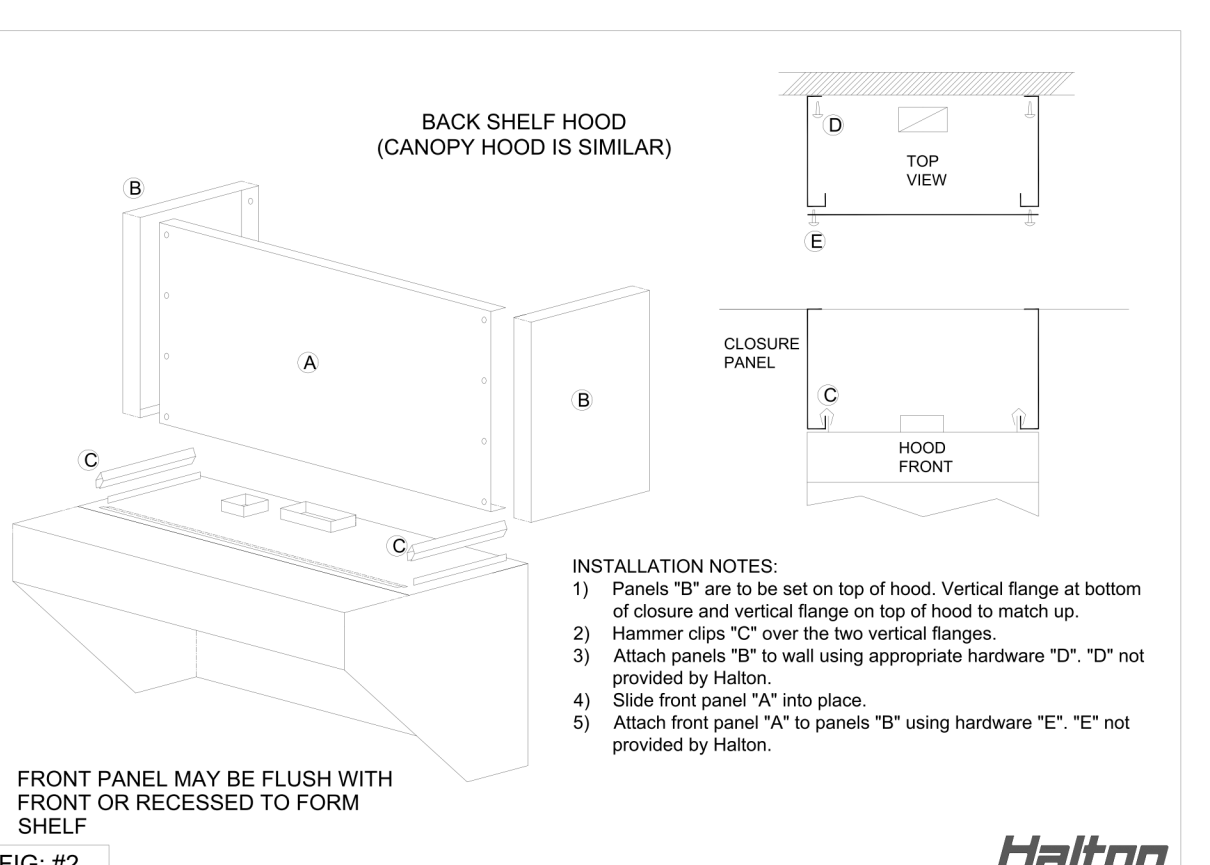
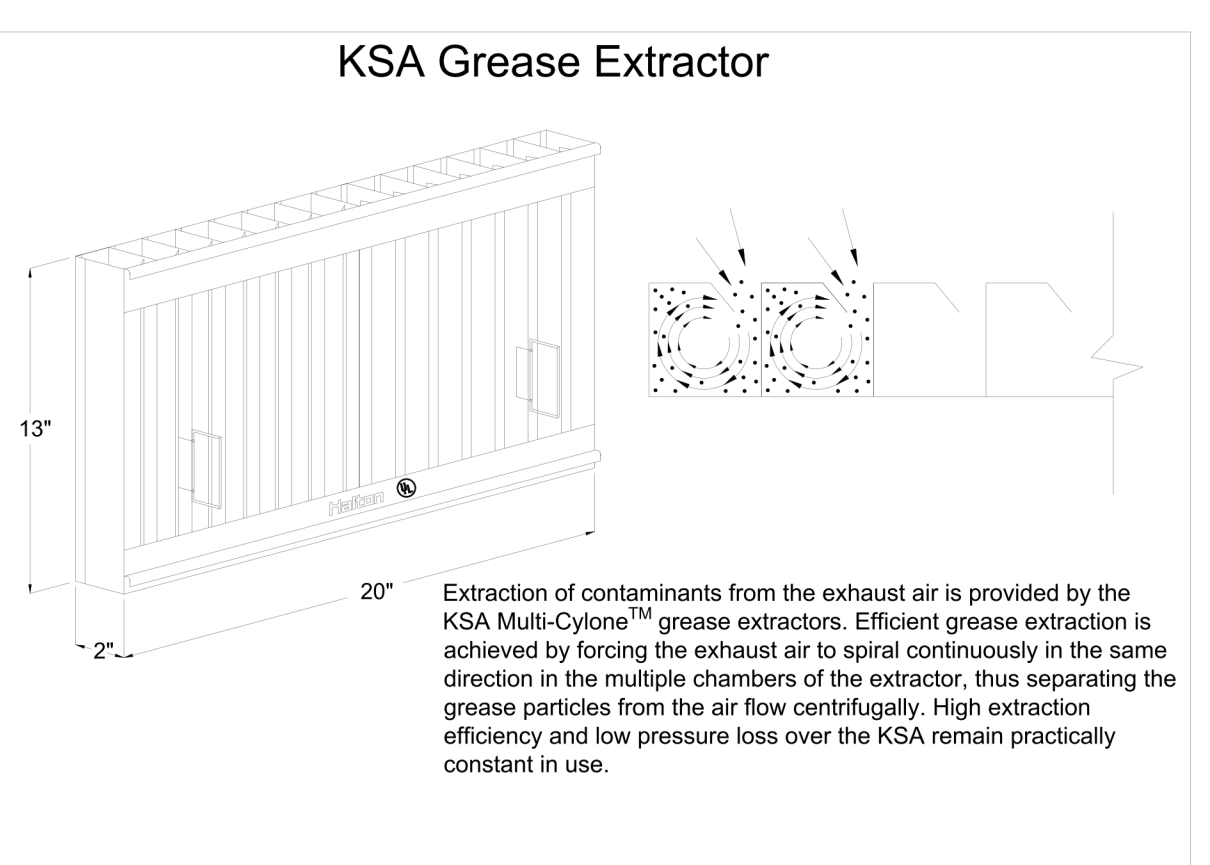
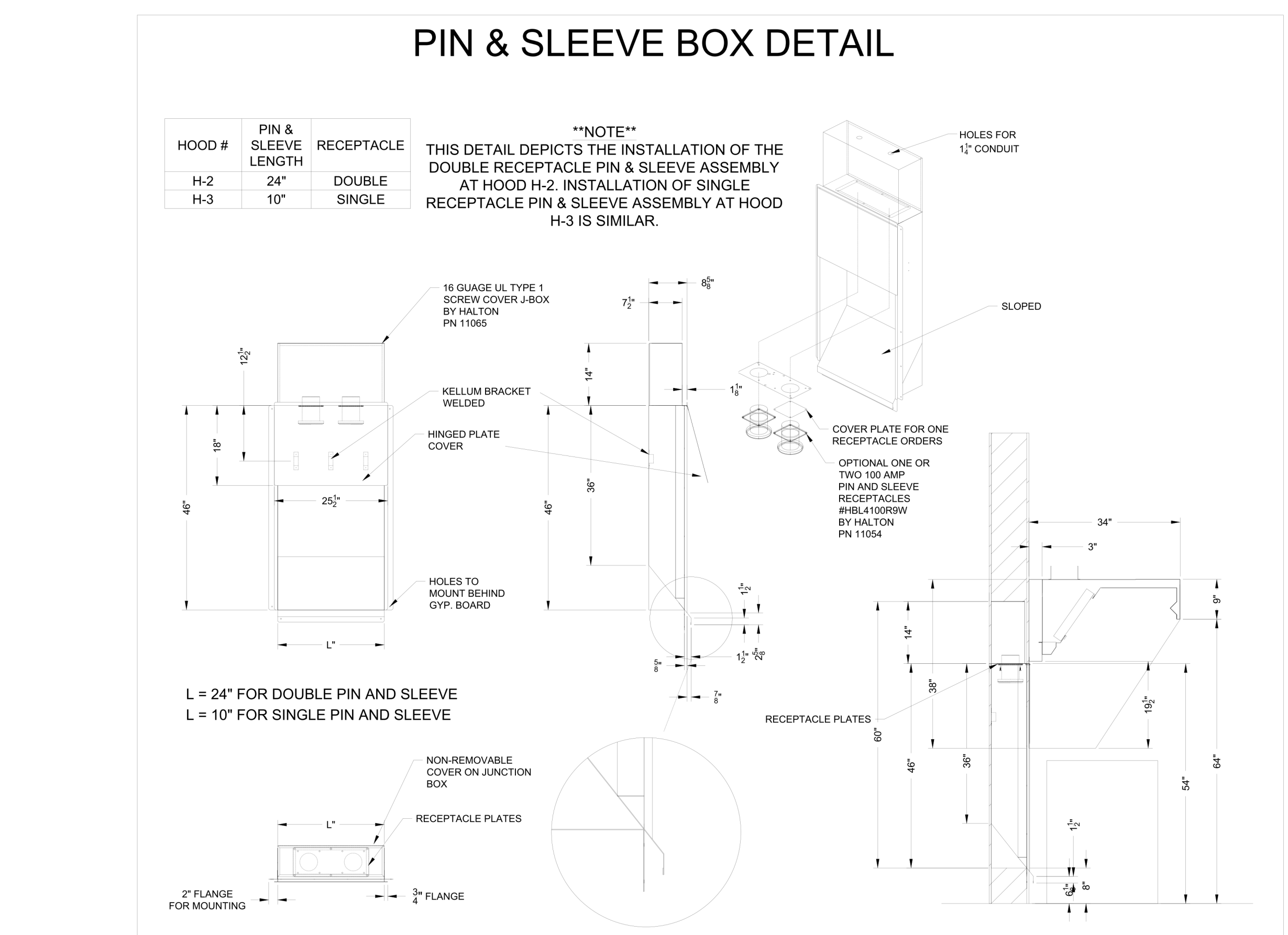
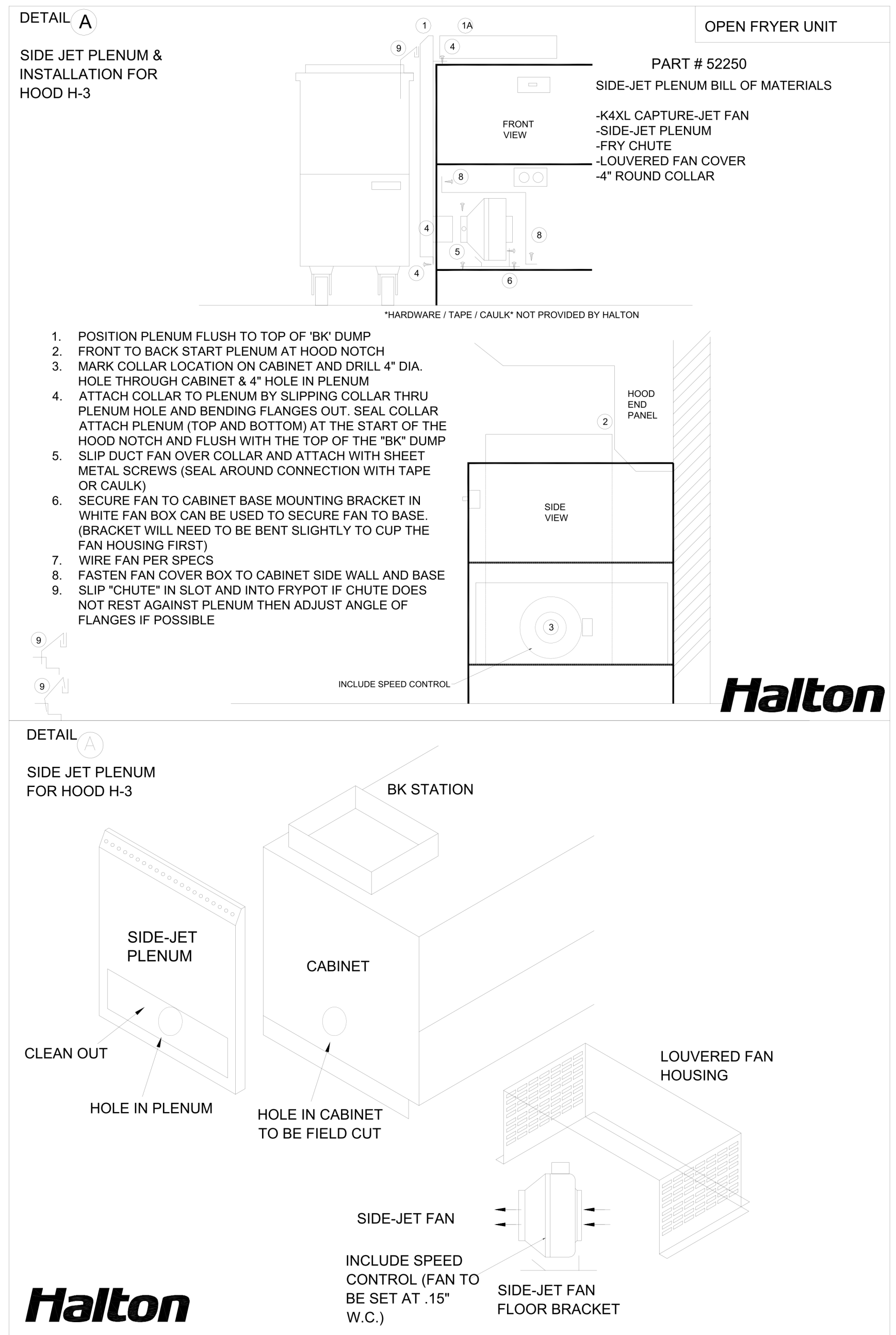
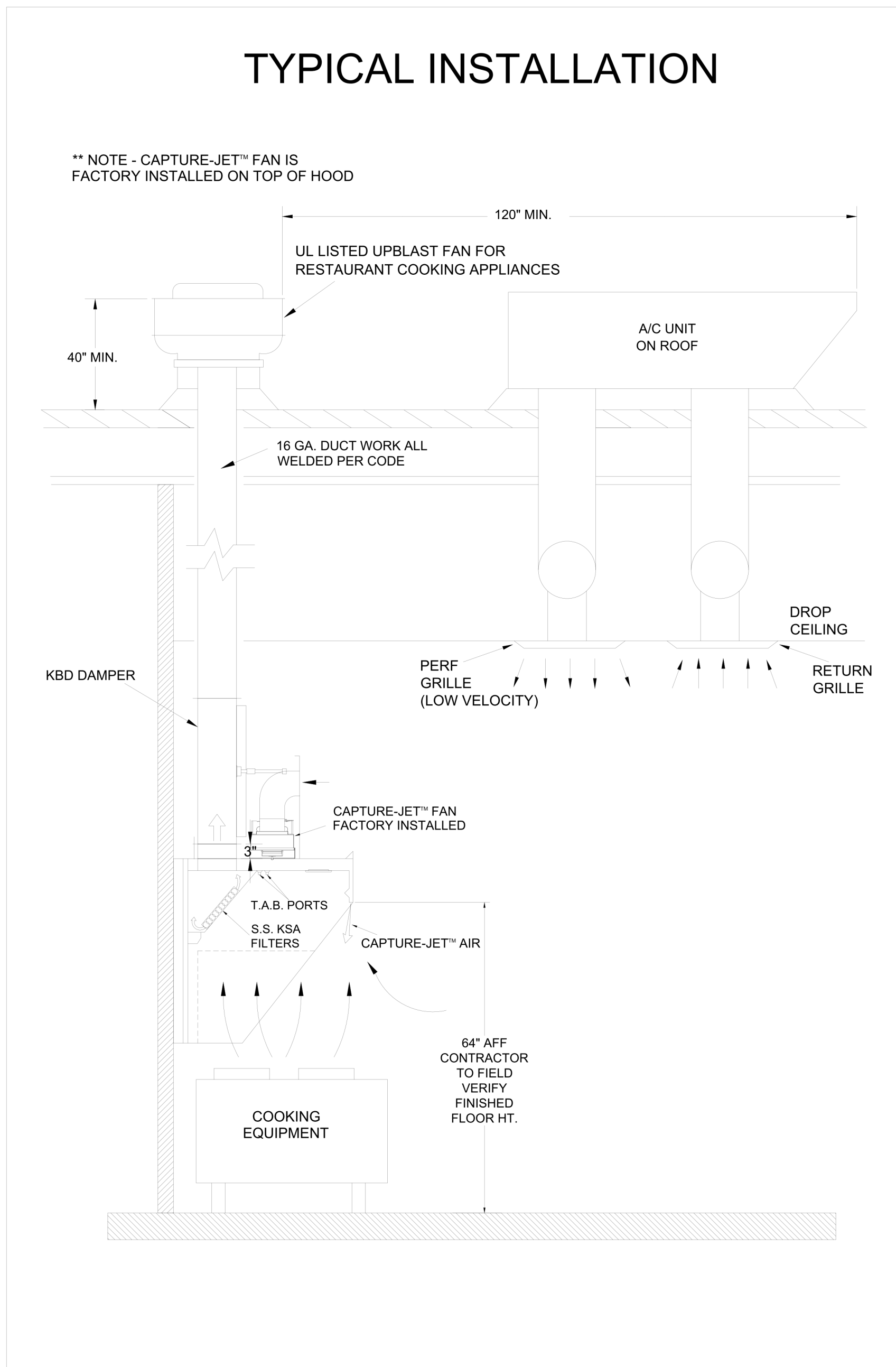
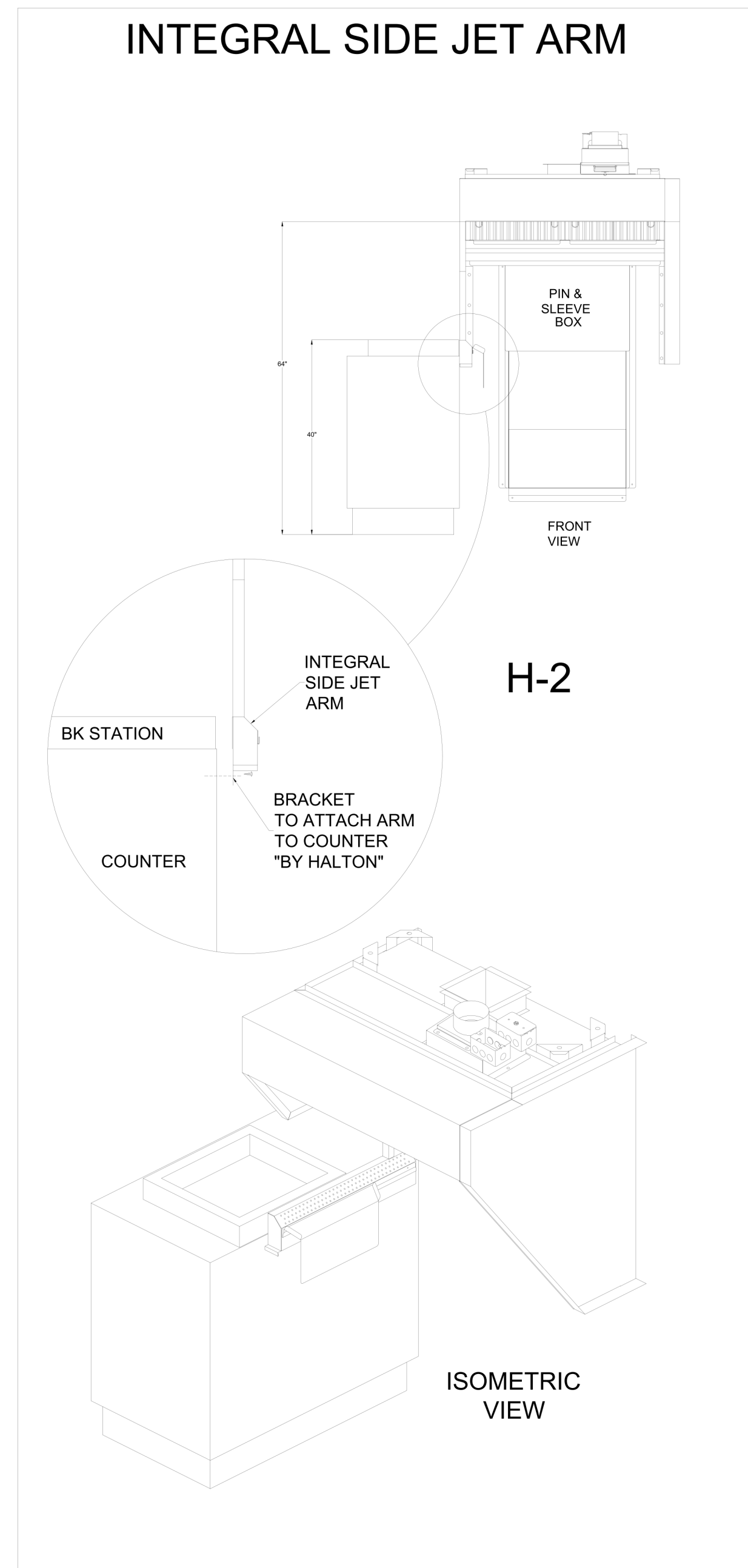
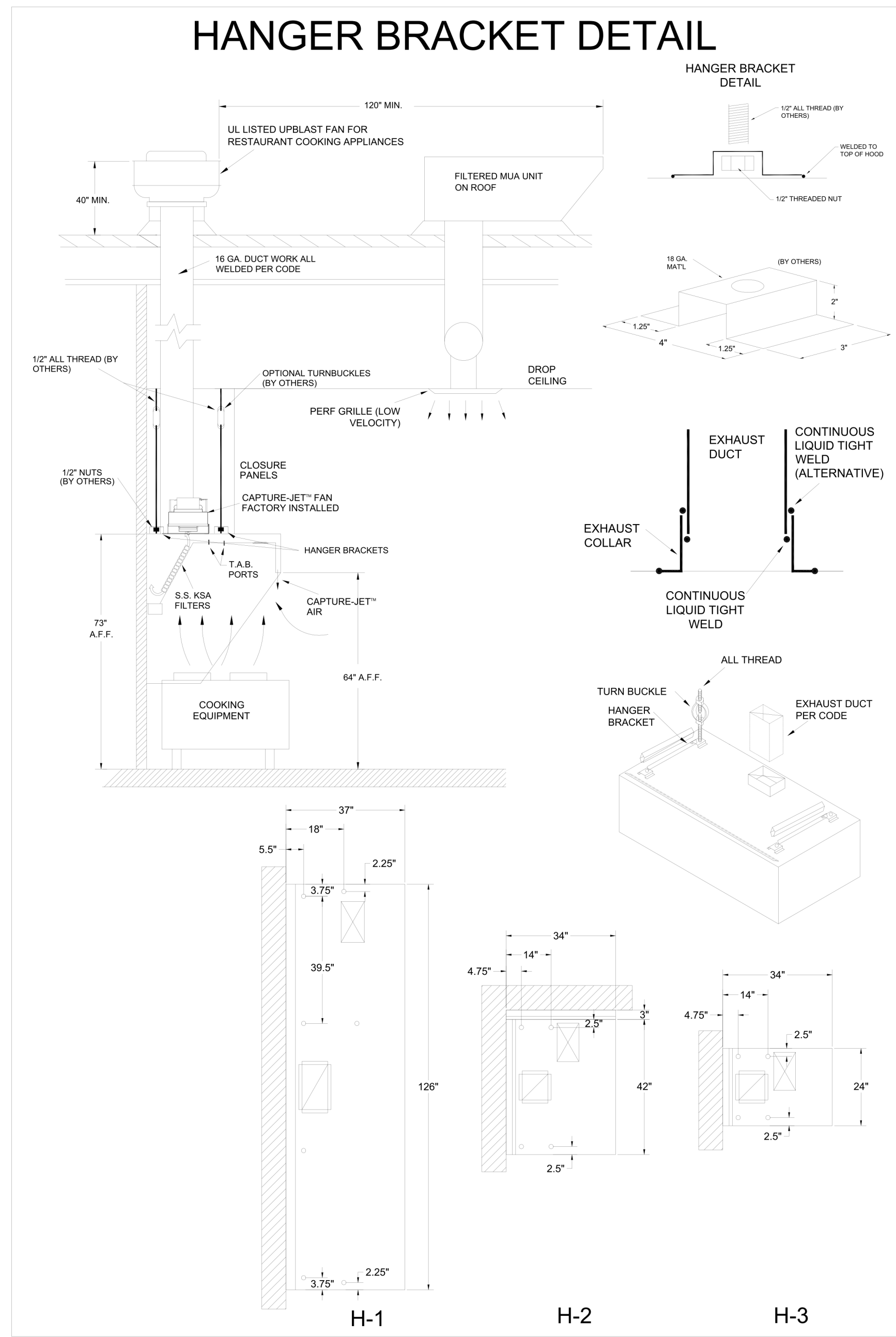
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CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

FSR#05792
BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02
PRINTED FOR:
OTP
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 07/16/24 REV 01

CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024
DRAWN BY BRM
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SHEET
EQUIPMENT ROOF PLAN - LENNOX
SHEET NUMBER
M-102L



NSF **Halton** INTERTEK 3012225

CONFORMS TO UL STD. UL STD 710 CERTIFIED TO UL STD 9846

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

MODEL NO. **KVL-D-1C** SERIAL NO. _____ ITEM NO. _____

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS

THE FAN CIRCUIT IS RATED FOR 120V, 15A, 60HZ

THE LIGHTING CIRCUIT IS RATED FOR 120V, 15A, 60HZ

THE HOOD HAS BEEN CERTIFIED BY ETL FOR 9 INCH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATION TO NFPA 96

THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES

REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.

SUITABLE FOR USE TO MEDIUM DUTY COOKING APPLIANCES

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CHUTE OR HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	0	0	20	48	150

*JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.30 IN HOOD

NSF **Halton** INTERTEK 3012225

CONFORMS TO UL STD. UL STD 710 CERTIFIED TO UL STD 9846

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

MODEL NO. **KVL-C-1C** SERIAL NO. _____ ITEM NO. _____

GENERAL REQUIREMENTS

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SUITABLE FOR USE TO MEDIUM DUTY COOKING APPLIANCES

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CHUTE OR HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	0	0	21	31	138

*JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.30 IN HOOD

NSF **Halton** INTERTEK 3012225

CONFORMS TO UL STD. UL STD 710 CERTIFIED TO UL STD 9846

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

MODEL NO. **KVL-2-1C** SERIAL NO. _____ ITEM NO. _____

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS

THE FAN CIRCUIT IS RATED FOR 120V, 15A, 60HZ

THE LIGHTING CIRCUIT IS RATED FOR 120V, 15A, 60HZ

THE HOOD HAS BEEN CERTIFIED BY ETL FOR 9 INCH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATION TO NFPA 96

THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES

REPLACE FILTERS ONLY WITH UL CLASSIFIED FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.

SUITABLE FOR USE TO HEAVY DUTY COOKING APPLIANCES

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF HOOD AND COOKING SURFACE, IN		MIN. EXHAUST CHUTE OR HOOD LENGTH
	FRONT, IN	SIDE, IN	MIN	MAX	
MEDIUM	6	0	20	30	121
MEDIUM	6	0	20	32	138
MEDIUM	6	0	20	36	133
HEAVY	0	2	20	25	191
HEAVY	0	2	20	30	216

*-SETBACK UNDERHANG DISTANCE

*JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.28 IN HOOD

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIR FLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIR FLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION: _____ WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____

WEBSITE: www.halton.com

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

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

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

PROJECT: **CHICK-FIL-A SSAM #5792**
NORTH PLATTE

LOCATION: NORTH PLATTE, NE
DRAWN BY: SKK
SCALE: NOT TO SCALE

DATE: 08.08.24

DRAWING NO.: **U24-617-02**

SHEET NO.: **H-1.2**

REVISION DESCRIPTION

REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

ROOFTOP UNIT SCHEDULE - LENNOX

Table with columns: MARK, TOTAL COOLING MBH, SENSIBLE COOLING MBH, HEATING INPUT MBH, HEATING OUTPUT MBH, SUPPLY CFM, OA CFM, HP, ESP (in-wg), EER, IEEER, VOLTAGE (V), PHASE, MCA (A), MOCP (A), MODEL, MANUFACTURER, REMARKS. Includes rows for AC#1-4 and a REMARKS section with 15 items.

E

D

HOOD SCHEDULE

Table with columns: MARK, EXHAUST CFM, SP @ TAB PORT (in-wg), CAPTURE JET CFM & S.P., TYPE, COLLAR SIZE, WIDTH, DEPTH, HEIGHT, MANUFACTURER, MODEL, REMARKS. Includes rows for HOOD#1-3 and a REMARKS section with 23 items.

C

HEATER SCHEDULE

Table with columns: MARK, HEATING INPUT ELECTRIC (KW), GAS (MBH), FRAME LENGTH, FRAME WIDTH, FRAME DEPTH, MOUNTING TYPE, VOLTAGE (V), PHASE, FLA (A), MOCP (A), MODEL, MANUFACTURER, REMARKS. Includes rows for EIH#1 and IRH and a REMARKS section with 7 items.

B

A

FAN SCHEDULE

Table with columns: MARK, FAN CFM, ESP (in-wg), MOTOR RPM, HP, AREA SERVED, VOLTAGE (V), PHASE, FLA (A), MOCP (A), MODEL, MANUFACTURER, REMARKS. Includes rows for CF#1, EF#1-3, TF#1 and a REMARKS section with 24 items.

E

D

AIR DEVICE SCHEDULE

Table with columns: MARK, DESCRIPTION, LOCATION, NECK SIZE, FACE SIZE, FRAME TYPE, REMARKS. Includes rows A through K and a REMARKS section with 8 items.

C

AIR DOOR SCHEDULE

Table with columns: MARK, CFM, VELOCITY (FPM), HEATING (KW), MOTOR HP, MCA (A), MOCP (A), VOLTAGE (V), PHASE, AREA SERVED, MODEL, MANUFACTURER, REMARKS. Includes rows AD#1-2 and a REMARKS section with 5 items.

B

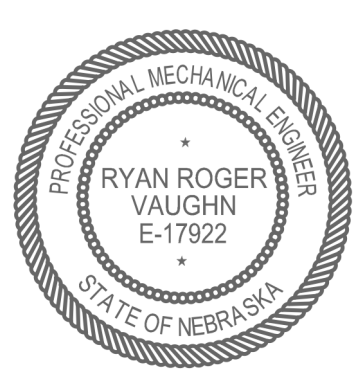
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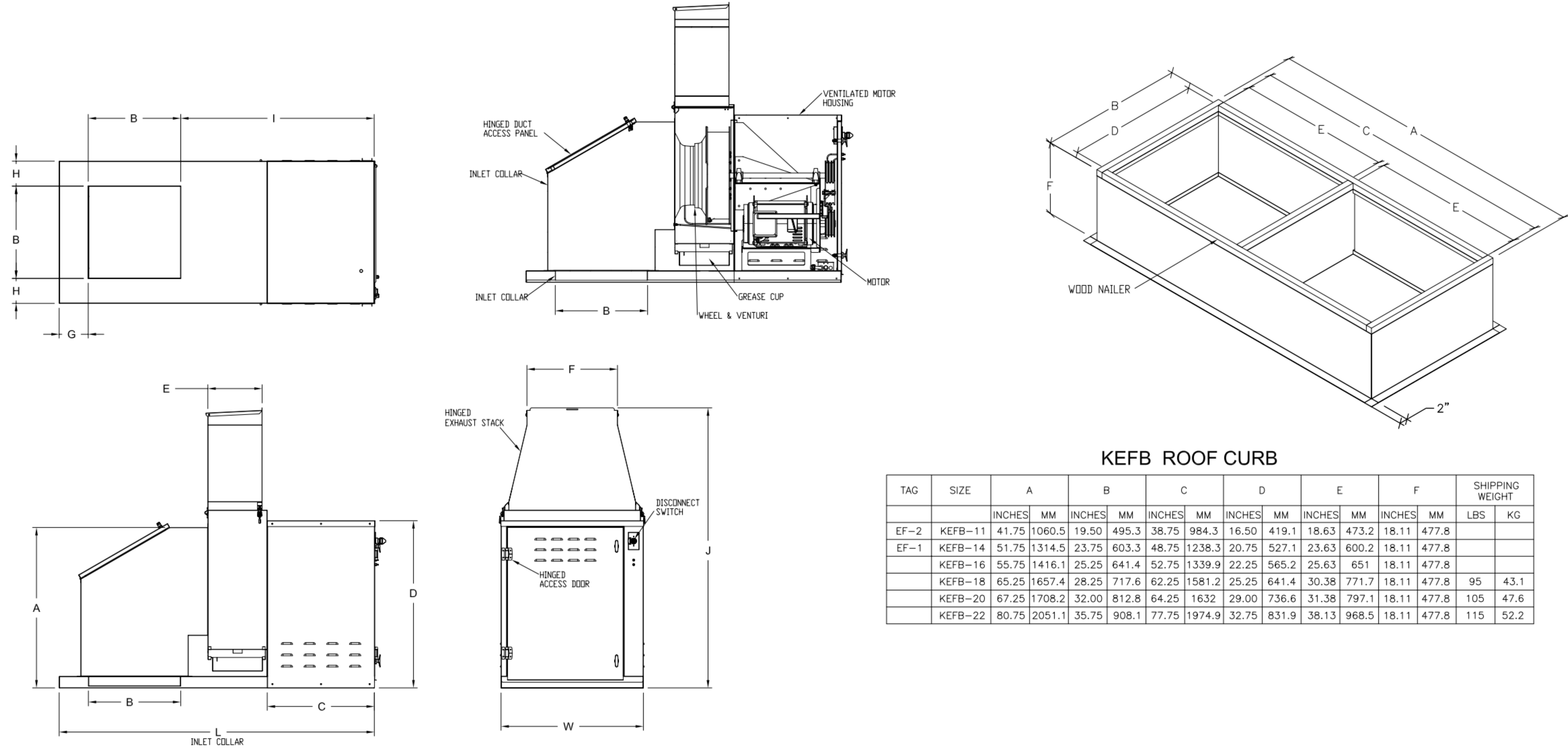
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SHEET
HVAC EQUIPMENT SCHEDULES - LENNOX
SHEET NUMBER

M-601L

FAN INFORMATION TABLE															
FAN NO	MODEL	QTY	CFM	L/S	FAN RPM	TAB WC	TAB PA	S.P. WC	S.P. PA	H.P.	KW	VOLTAGE	AMPS	ACCESSORIES	DRAIN TYPE
EF-1 HOOD H-1	KEF-14	1	1418	669.2960	1340	2.2	545.6000	.75	186.0000	1/2	0.37	120/1/60	9.8	STD DISCONNECT, INSULATED ROOF CURB W/ WOOD NAILER, UL762 LISTED GREASE FAN, DRAIN PIPE, METAL FAN TAG	GREASE CUP
EF-2 HOODS H-2/H-3	KEF-11	1	1091	514.9520	2000	3.6	892.8000	.95	235.6000	1/2	0.37	120/1/60	9.8	STD DISCONNECT, INSULATED ROOF CURB W/ WOOD NAILER, UL762 LISTED GREASE FAN, DRAIN PIPE, METAL FAN TAG	GREASE CUP

KEFB EXHAUST FAN



KEFB ROOF CURB

TAG	SIZE	A		B		C		D		E		F		SHIPPING WEIGHT	
		INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	LBS	KG
EF-2	KEFB-11	41.75	1060.5	19.50	495.3	38.75	984.3	16.50	419.1	18.63	473.2	18.11	477.8		
EF-1	KEFB-14	51.75	1314.5	23.75	603.3	48.75	1238.3	20.75	527.1	23.63	600.2	18.11	477.8		
	KEFB-16	55.75	1416.1	25.25	641.4	52.75	1339.9	22.25	565.2	25.63	651	18.11	477.8		
	KEFB-18	65.25	1657.4	28.25	717.6	62.25	1581.2	25.25	641.4	30.38	771.7	18.11	477.8	95	43.1
	KEFB-20	67.25	1708.2	32.00	812.8	64.25	1632	29.00	736.6	31.38	797.1	18.11	477.8	105	47.6
	KEFB-22	80.75	2051.1	35.75	908.1	77.75	1974.9	32.75	831.9	38.13	968.5	18.11	477.8	115	52.2

TAG	SIZE	L		W		A		B		C		D		E		F		G		H		I		J		SHIPPING WEIGHT	
		INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
EF-2	KEFB-11	43.0	1092.2	20.75	527	24.32	617.7	11.0	279.4	15.77	400.6	23.25	590.6	6.6	167.6	8.50	215.9	4.35	110.5	4.84	122.9	27.57	700.3	44.43	1128.5	184	83.5
EF-1	KEFB-14	53.0	1346.2	25.0	635	29.39	746.5	15.0	381	17.32	440	30.96	786.4	8.18	207.8	12.15	308.6	4.37	111	4.95	125.7	33.54	852.7	49.02	1245.1	298	135.2
	KEFB-16	57.0	1447.8	26.5	673.1	31.79	807.5	16.0	406.4	18.8	477.5	35.05	915.7	9.34	237.2	13.13	333.5	4.47	113.5	5.20	132.1	36.48	926.6	54.38	1381.3	350	158.8
	KEFB-18	66.5	1651	29.5	749.3	34.93	887.2	19.0	482.6	21.05	534.7	36.37	923.8	10.23	259.8	16.07	408.2	7.62	193.5	5.20	132.1	39.80	1010.9	59.43	1509.5	448	203.2
	KEFB-20	68.5	1739.9	33.25	844.6	37.4	950	20.0	508	21.1	536	39.4	1000.8	12.2	309.9	19.6	497.8	6.95	176.5	6.58	167.1	41.46	1053.1	66.1	1678.9	514	233.2
	KEFB-22	82.0	2082.8	37.0	939.8	41.7	1059.2	24.0	609.6	27.8	706.1	43.5	1104.9	14.1	358.1	23.6	599.4	7.59	192.8	6.48	164.6	50.33	1278.4	72.8	1986.3	795	360.6

SIZE	STARTER DUCT SIZE	
	INCHES	MM
KEFB-11	11 x 11	279.4 x 279.4
KEFB-14	15 x 15	381 x 381
KEFB-16	16 x 16	406.4 x 406.4
KEFB-18	19 x 19	482.6 x 482.6
KEFB-20	20 x 20	508 x 508
KEFB-22	24 x 24	609.6 x 609.6

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPLICABLE: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT TYPE WILL REQUIRE A REVISION TO THIS DRAWING. ANY CHANGES TO 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.halton.com

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

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSDALE, KY 42164
 1-270-237-5600

REVISION DESCRIPTION

REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

PROJECT: CHICK-FIL-A SSAM

LOCATION: _____ DATE: 02.01.24

DRAWN BY: SKK SCALE: NOT TO SCALE

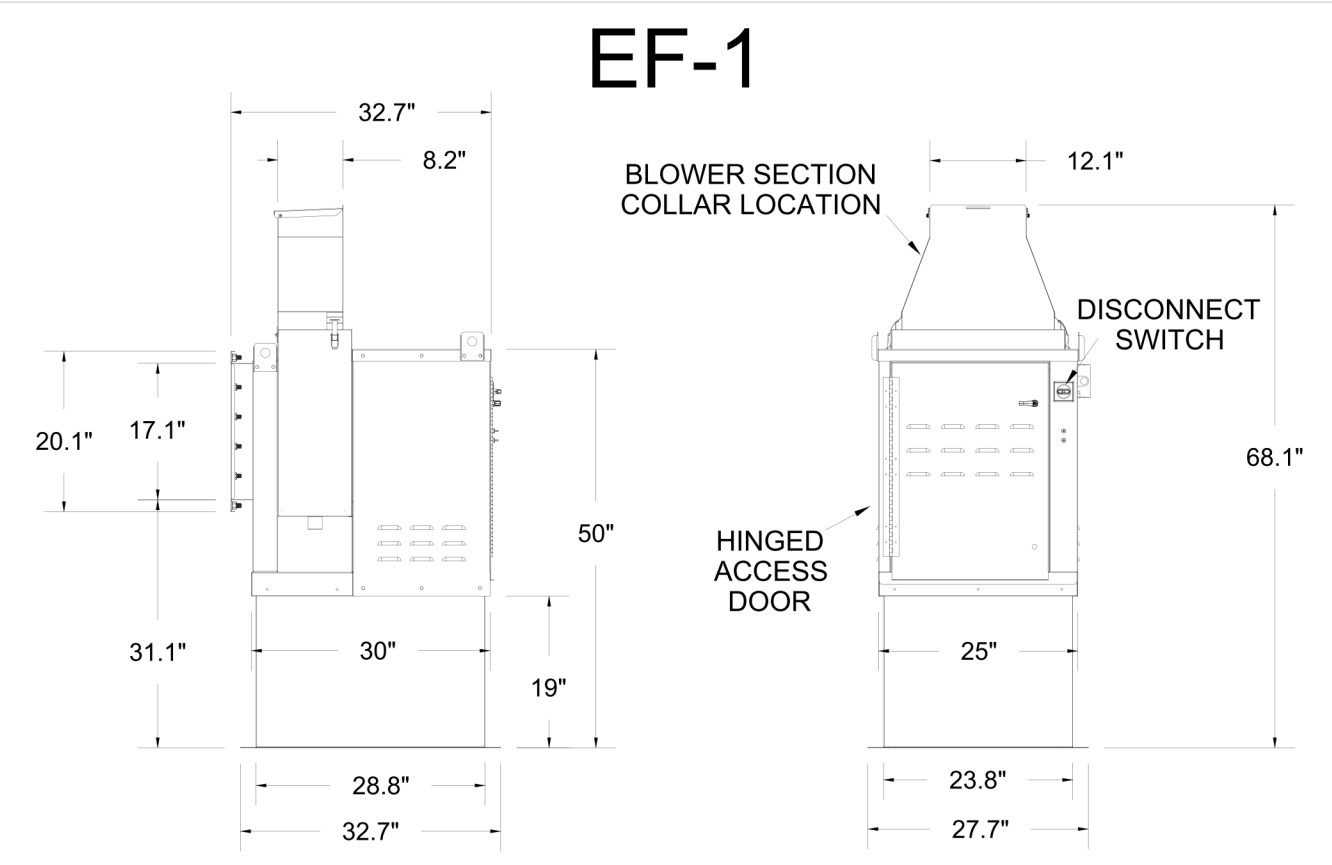
CONSULTANT: _____

DRAWING TITLE: FAN DETAILS

DRAWING No.: U24-089

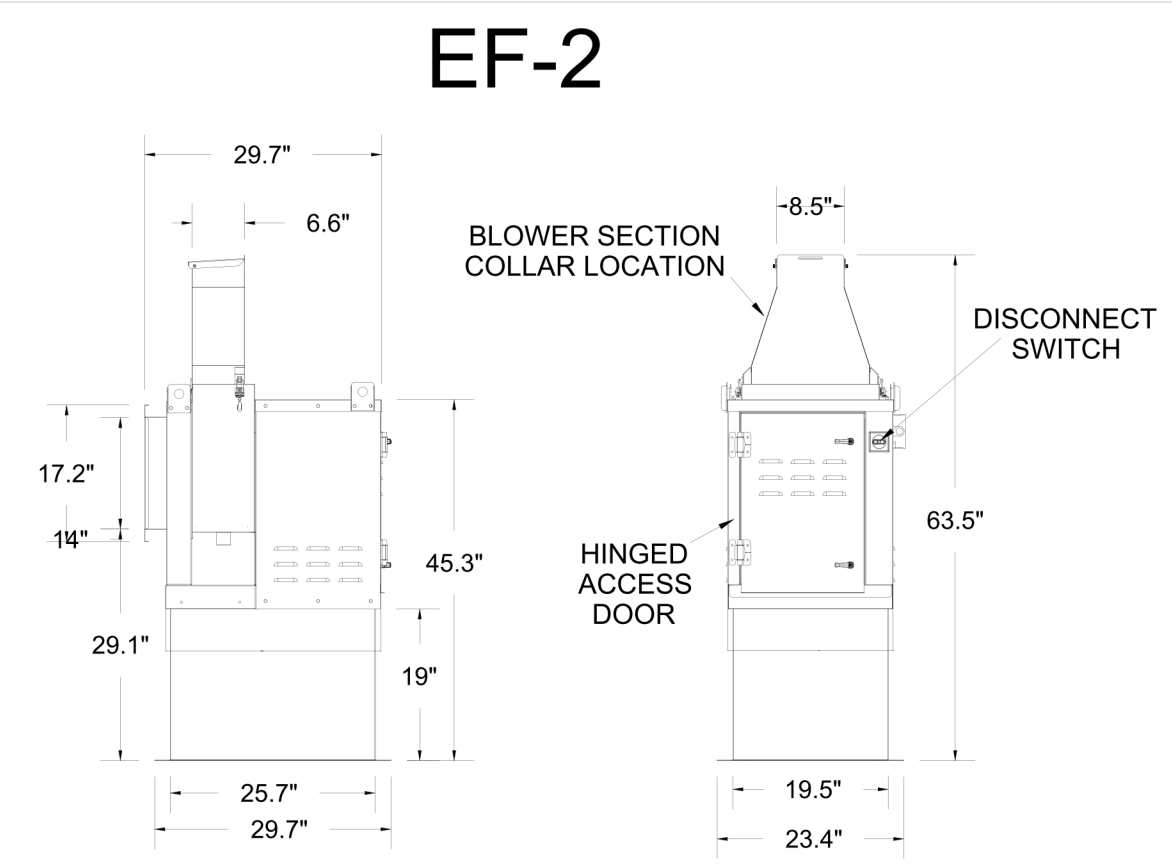
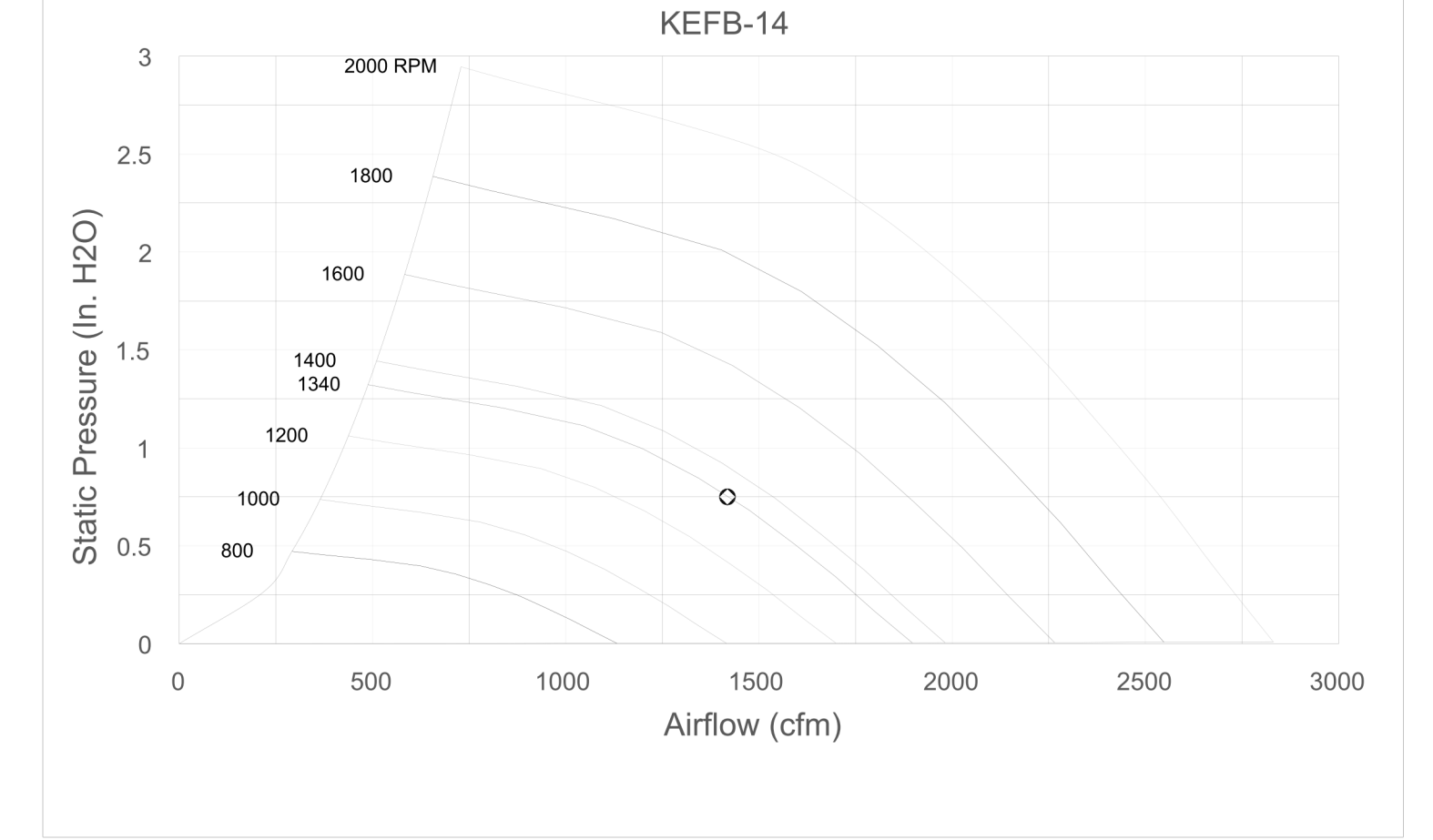
REV. NO.: 0 SHEET NO.: 4 of 4





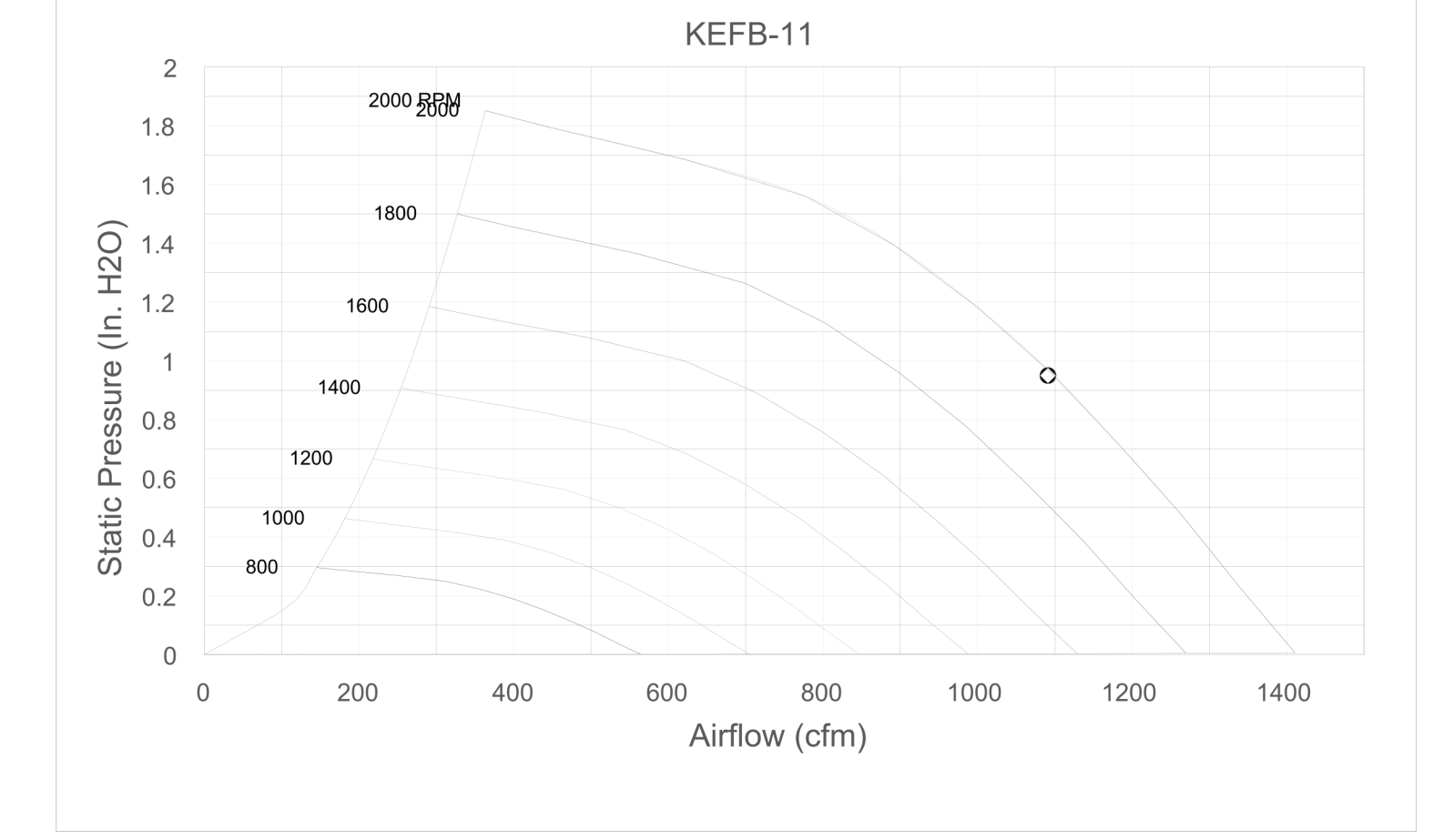
Halton KEFB Exhaust Fan

Job Name	Chick-II-A SSAM	Item No	EF-1	Qty	1	Volts/Ph/Amps	115/1/60
Location	EF-1	Model	KEFB-14	Fan RPM	1,340	Motor HP	0.5
Date	2/6/2024	Airflow, cfm	1,418	Fan BHP	0.32	TAB Port, in WC	2.2
Static Pressure, in WC	0.75						



Halton KEFB Exhaust Fan

Job Name	Chick-II-A SSAM	Item No	EF-2	Qty	1	Volts/Ph/Amps	115/1/60
Location	EF-2	Model	KEFB-11	Fan RPM	2,000	Motor HP	0.5
Date	2/6/2024	Airflow, cfm	1,091	Fan BHP	0.33	TAB Port, in WC	3.6
Static Pressure, in WC	0.95						



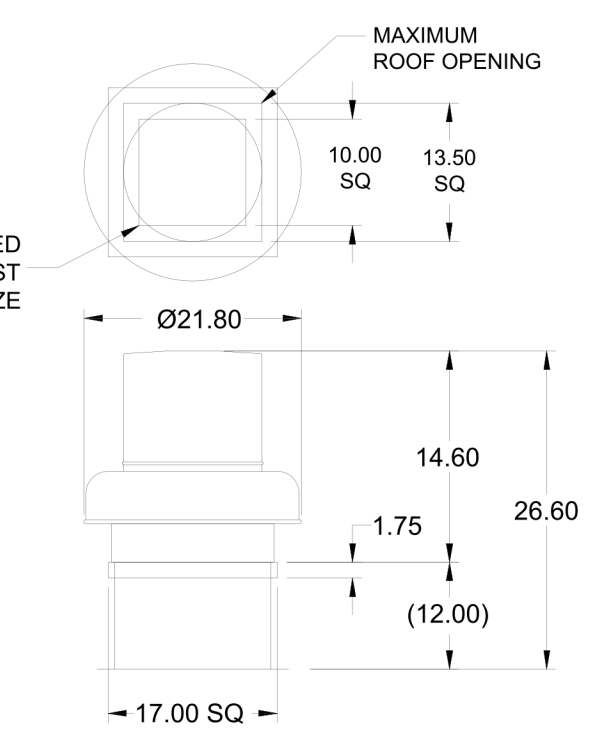
Model: XRED-095-VG
Direct Drive Centrifugal Roof Exhaust Fan

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

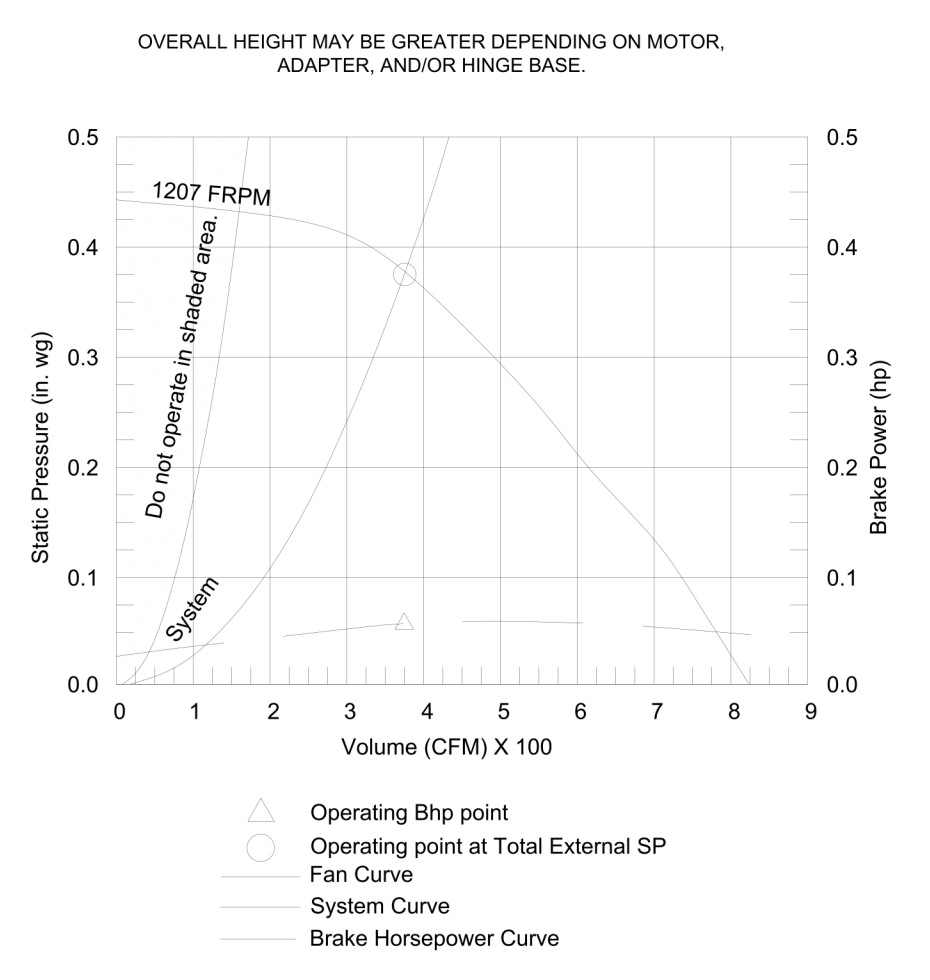
Performance	
Requested Volume (CFM)	375
Actual Volume (CFM)	375
Total External SP (in. wg)	0.375
Fan RPM	1207
Operating Power (hp)	0.05
Elevation (ft)	23
Airstream Temp. (F)	70
Air Density (lb/ft ³)	0.075
Tip Speed (ft/min)	3,437
Static Eff. (%)	41

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

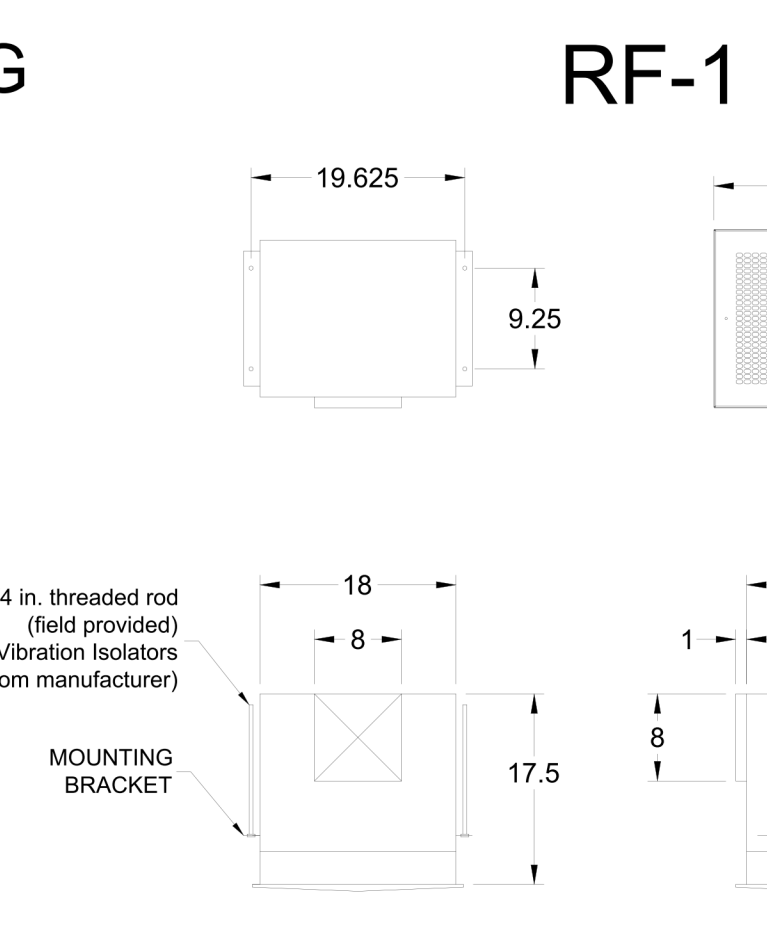


Model: SP-A510-VG

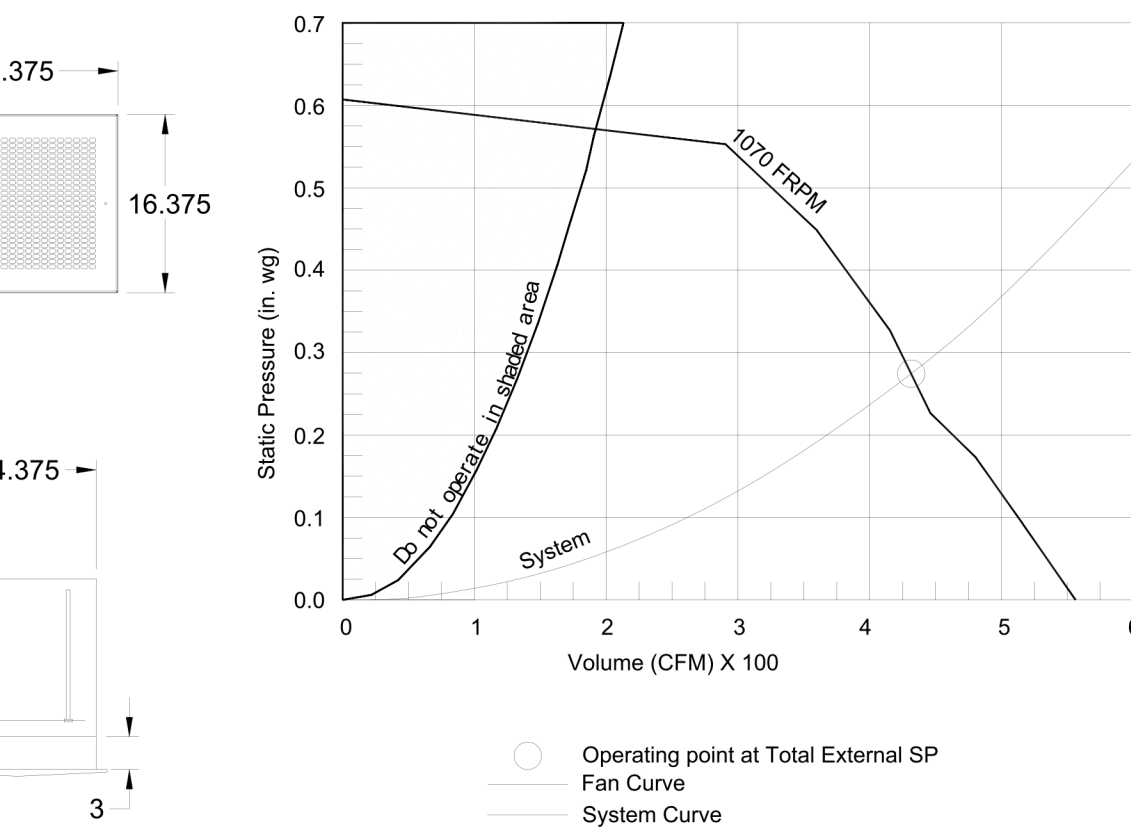
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	31
Weight w/ Acc's (lb)	40

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 ³)	0.075
Sones	4.5

Motor	
Motor Mounted	Yes
** Input Watts (W)	224
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP

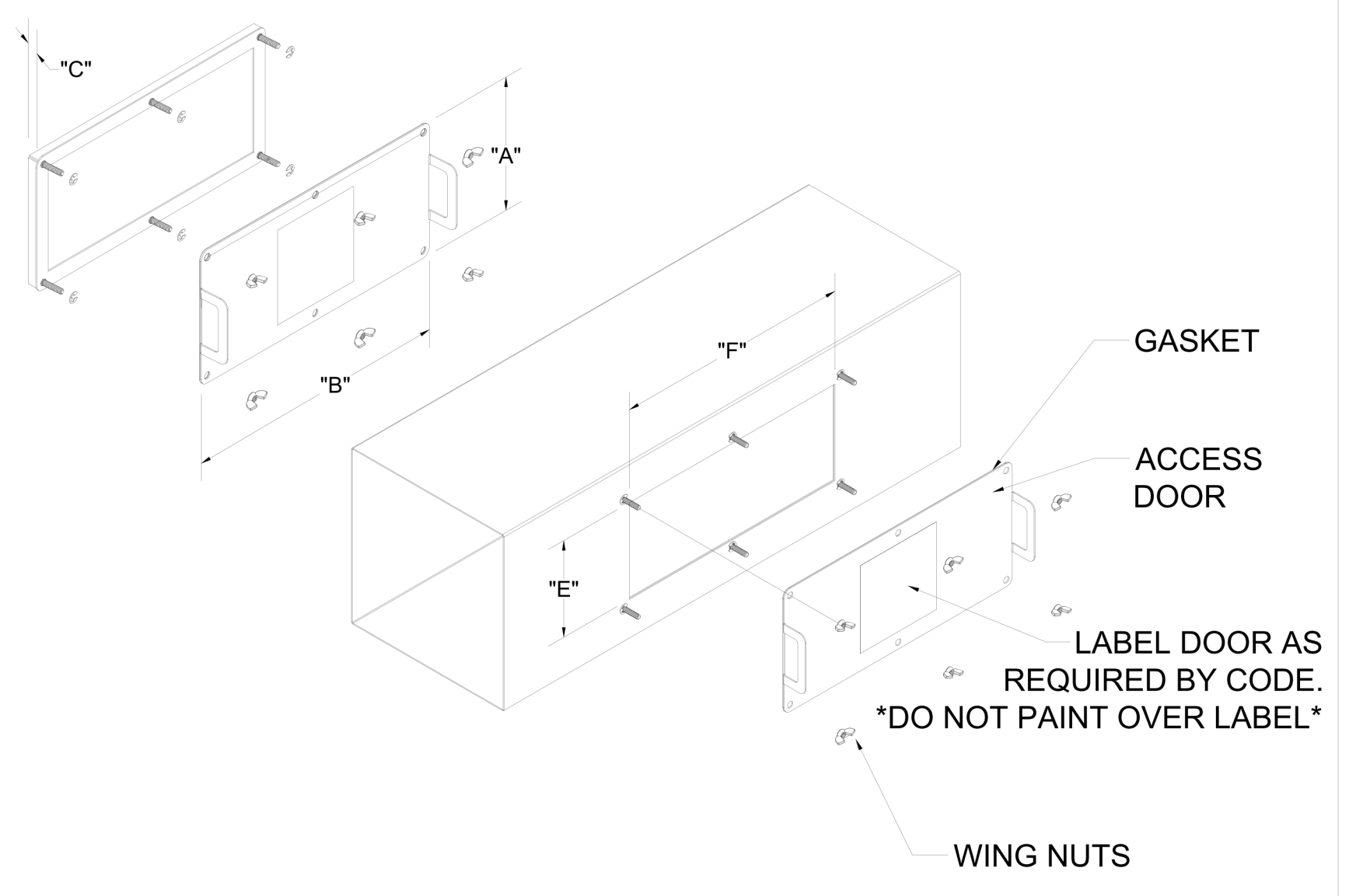


RF-1

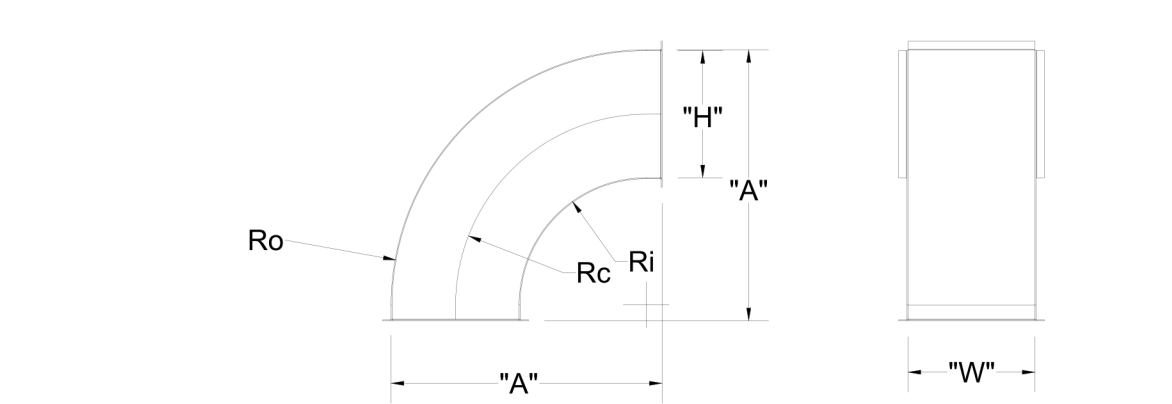


GREASE ACCESS DOOR SCHEDULE					
MODEL	"A"	"B"	"C"	"E"	"F"
KAP0715	7	15	FLAT	5.5	13.5
KAP1015	10	15	1/2	7	12

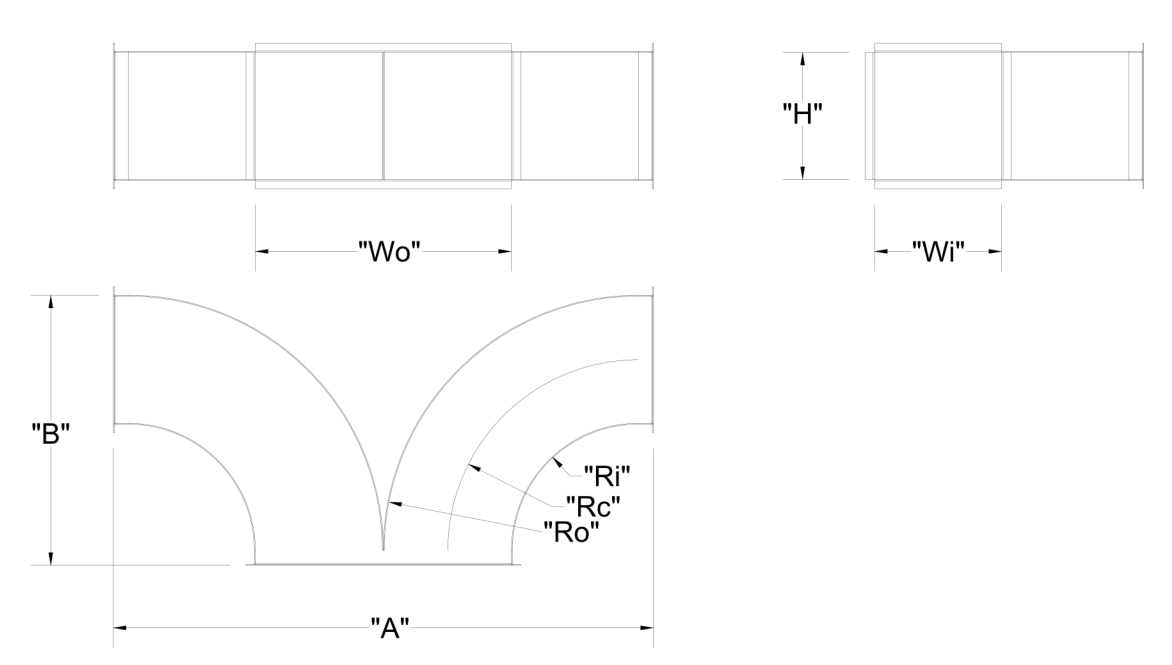
ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL



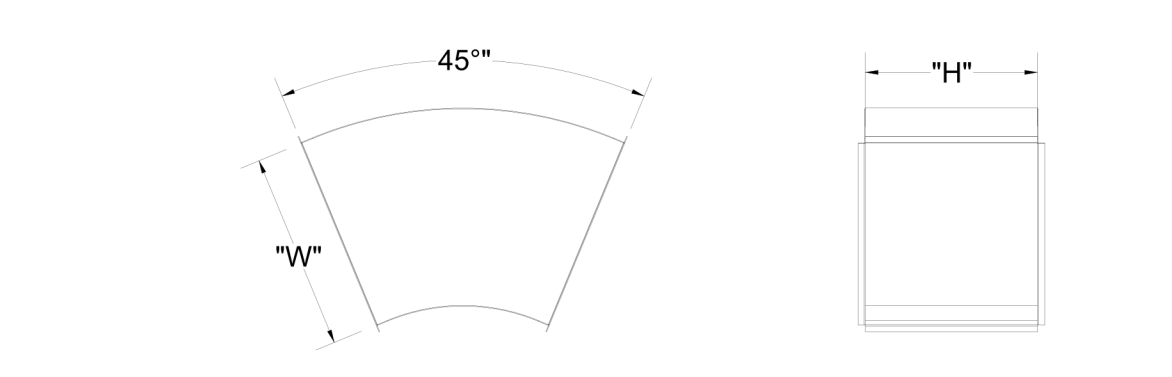
INSTALL PER MANUFACTURER'S INSTRUCTIONS



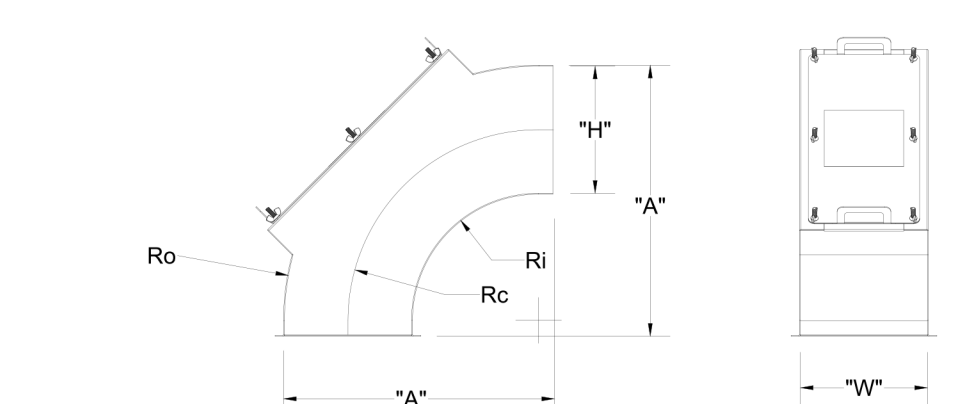
"H"	"W"	"A"	Ro	Rc	Ri
EF-2	8	8	17	16	12



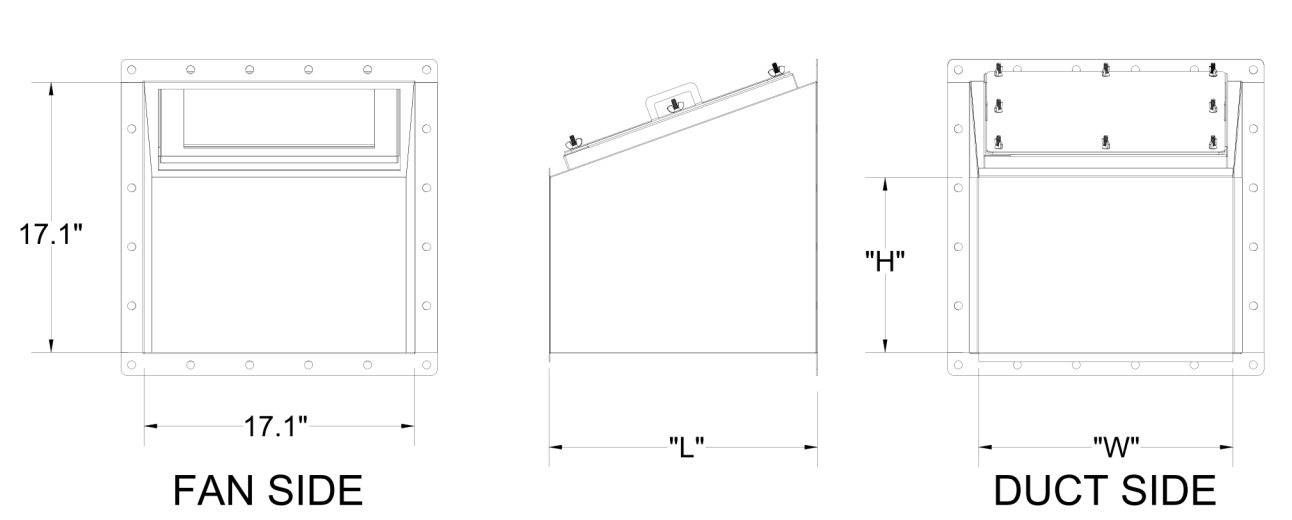
"Wi"	"H"	Wo	Ro	Rc	Ri	"A"	"B"
EF-1	-	-	-	-	-	-	-
EF-2	8	8	16	16	12	8	34



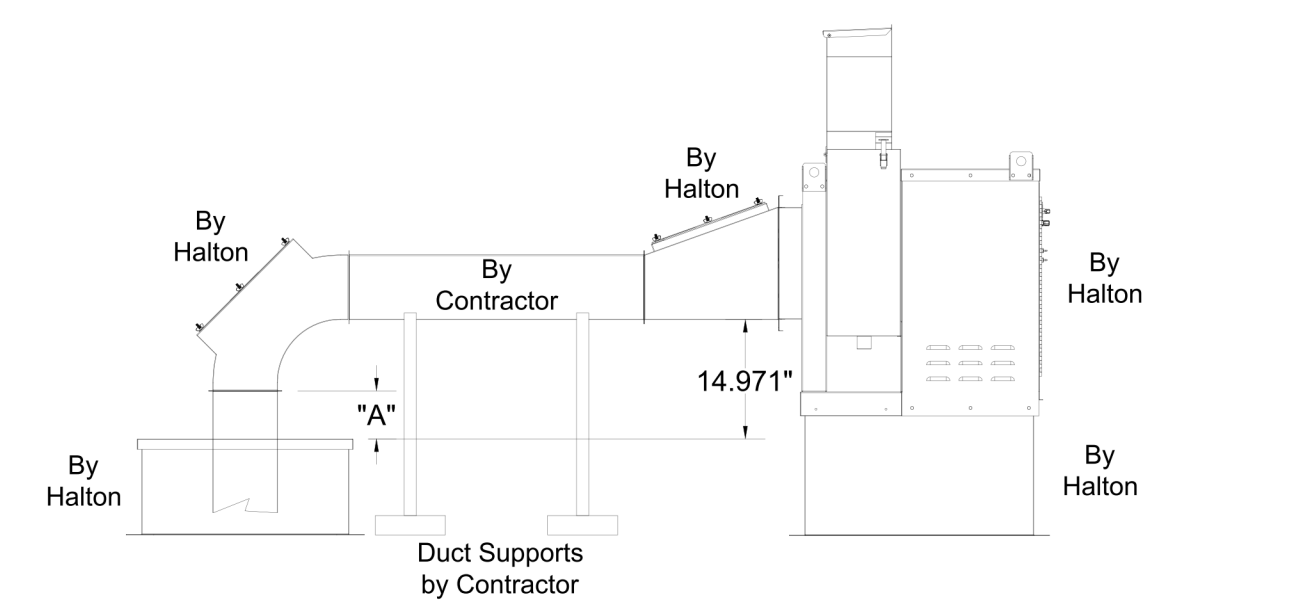
"W"	"H"
EF-1	14
EF-2	8



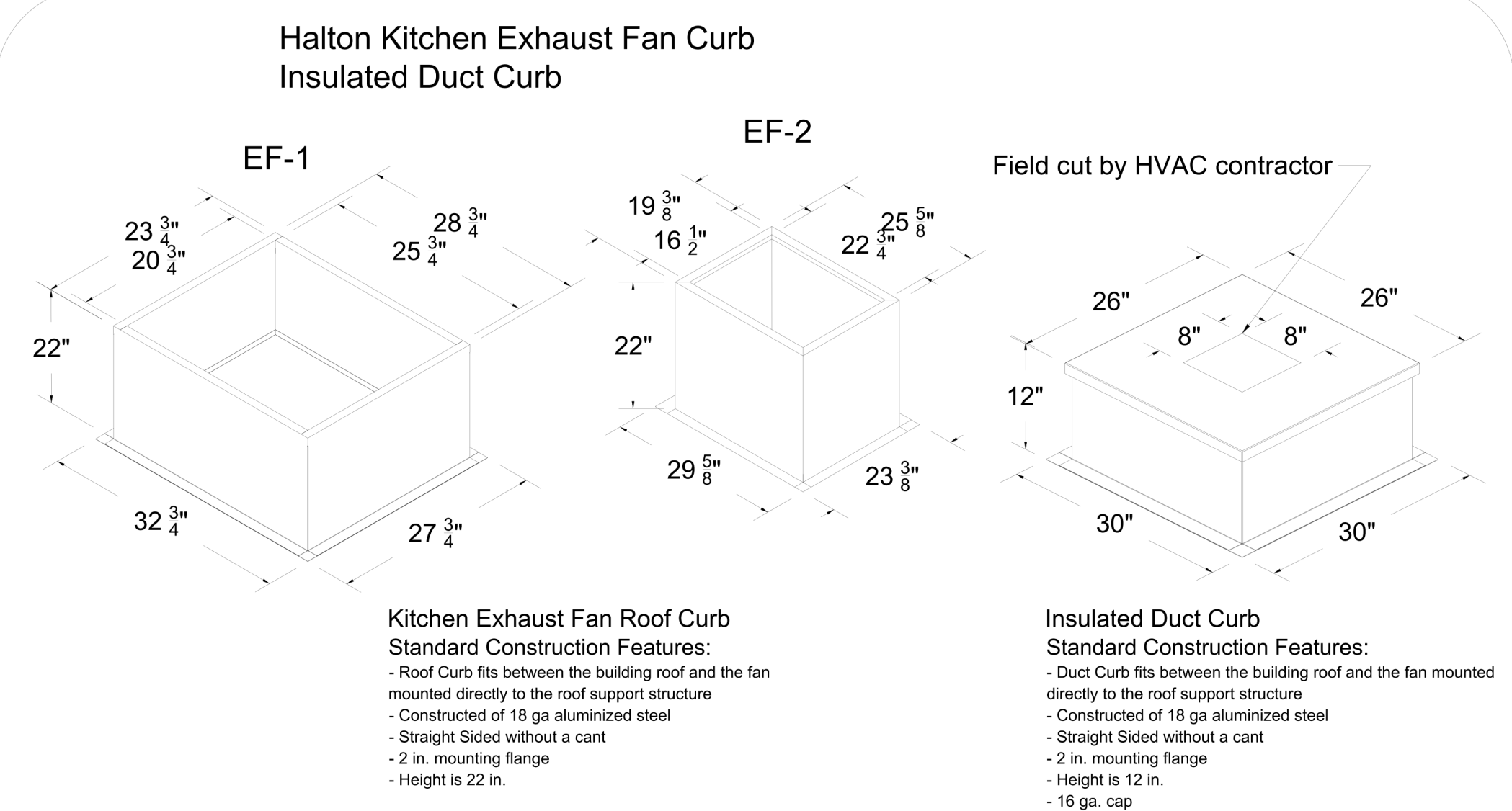
"H"	"W"	"A"	Ro	Rc	Ri
EF-1	14	8	29	28	21
EF-2	8	8	17	16	12



TRANSITION	"H"	"W"	"L"
EF-1	5	8	14
EF-2	6	8	16

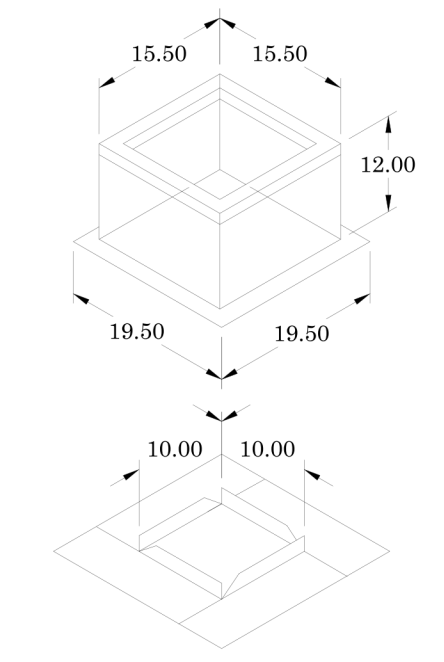


"A" DISTANCE AVAILABLE FOR DUCT SLOPE	ELBOW	"A"
EF-1	14X8	8
EF-2	8X8	10



- 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 aluminumized 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 aluminumized steel
 - Straight Sided without a cant
 - 2 in. mounting flange
 - Height is 12 in.
 - 18 ga cap

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



ACCESSORIES			
MATERIAL GALVANIZED	SECURITY BARS NO	INSULATION ASSEMBLED NO	INSULATION R VALUE R4.3

TAG	QTY	MODEL	SIZING METHOD	UNDERSIZING (in.)	WEIGHT (lb)	SHIPPED ASSEMBLED	UNION LABEL PREFERENCE
EF-3	1	GPI-17	NOMINAL	1.5	14	YES	NO

DIMENSIONS											
CURB HEIGHT (in.)	NOMINAL WIDTH (in.)	NOMINAL LENGTH (in.)	ACTUAL WIDTH (in.)	ACTUAL LENGTH (in.)	ACTUAL INSIDE WIDTH (in.)	ACTUAL INSIDE LENGTH (in.)	FLANGE WIDTH (in.)	FLANGE LENGTH (in.)	HINGE BASE WIDTH (in.)	HINGE BASE LENGTH (in.)	HINGE R VALUE
12	17	17	15.5	15.5	12	12	19.5	16			

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: THIS DRAWING IS A REVISION OF AN EXISTING DRAWING. ANY CHANGES TO THE EQUIPMENT OR MATERIALS MUST BE NOTED IN THE REVISIONS. A RECALCULATION OF AIRFLOW MAY BE REQUIRED. CHANGES OCCUR.

APPROVED FOR FABRICATION: WITH NO CHANGES WITH CHANGES AS NOTED

REVISION DESCRIPTION

REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

PROJECT: CHICK-FIL-A #5792 NORTH PLATTE

LOCATION: NORTH PLATTE, NE

DRAWN BY: SKK DATE: 08.08.24

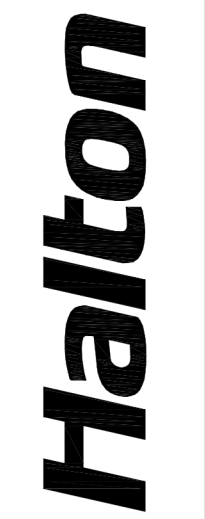
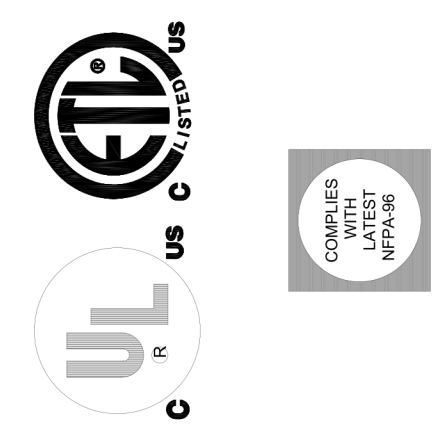
SCALE: NOT TO SCALE

CONSULTANT:

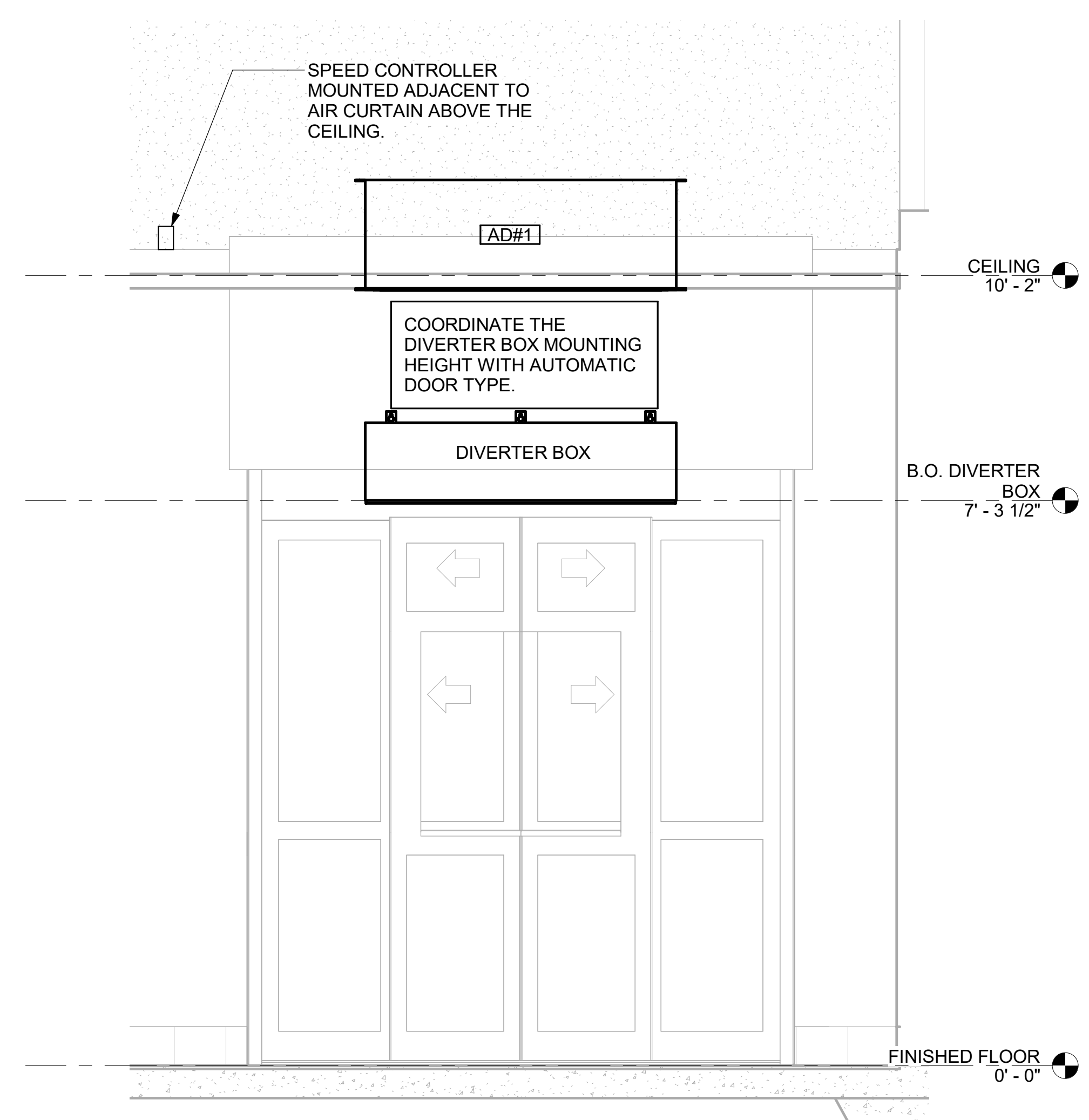
DRAWING TITLE: CFA FAN DETAILS

DRAWING NO.: U24-617

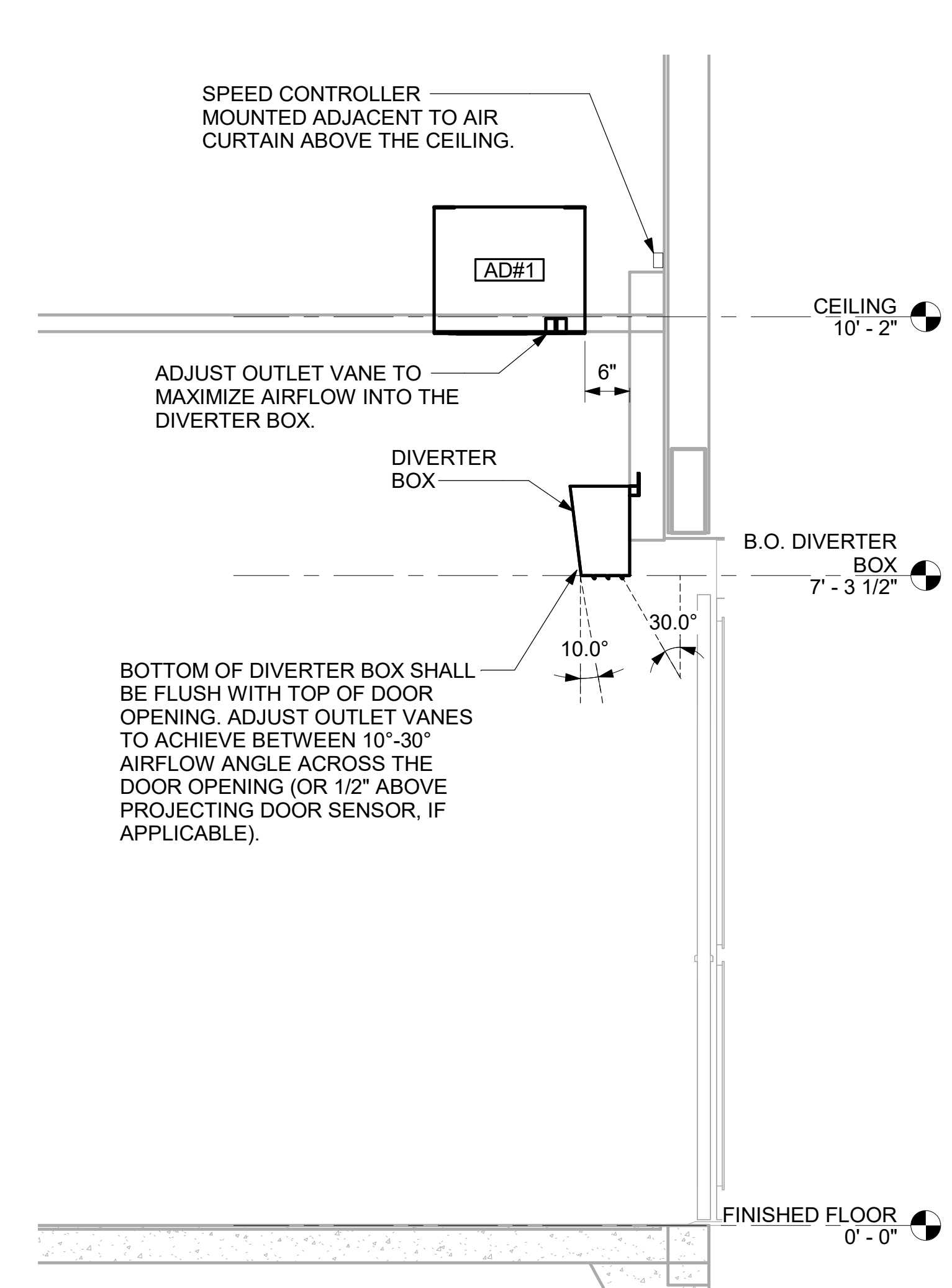
REV. NO.: 0 SHEET NO.: 4 of 5



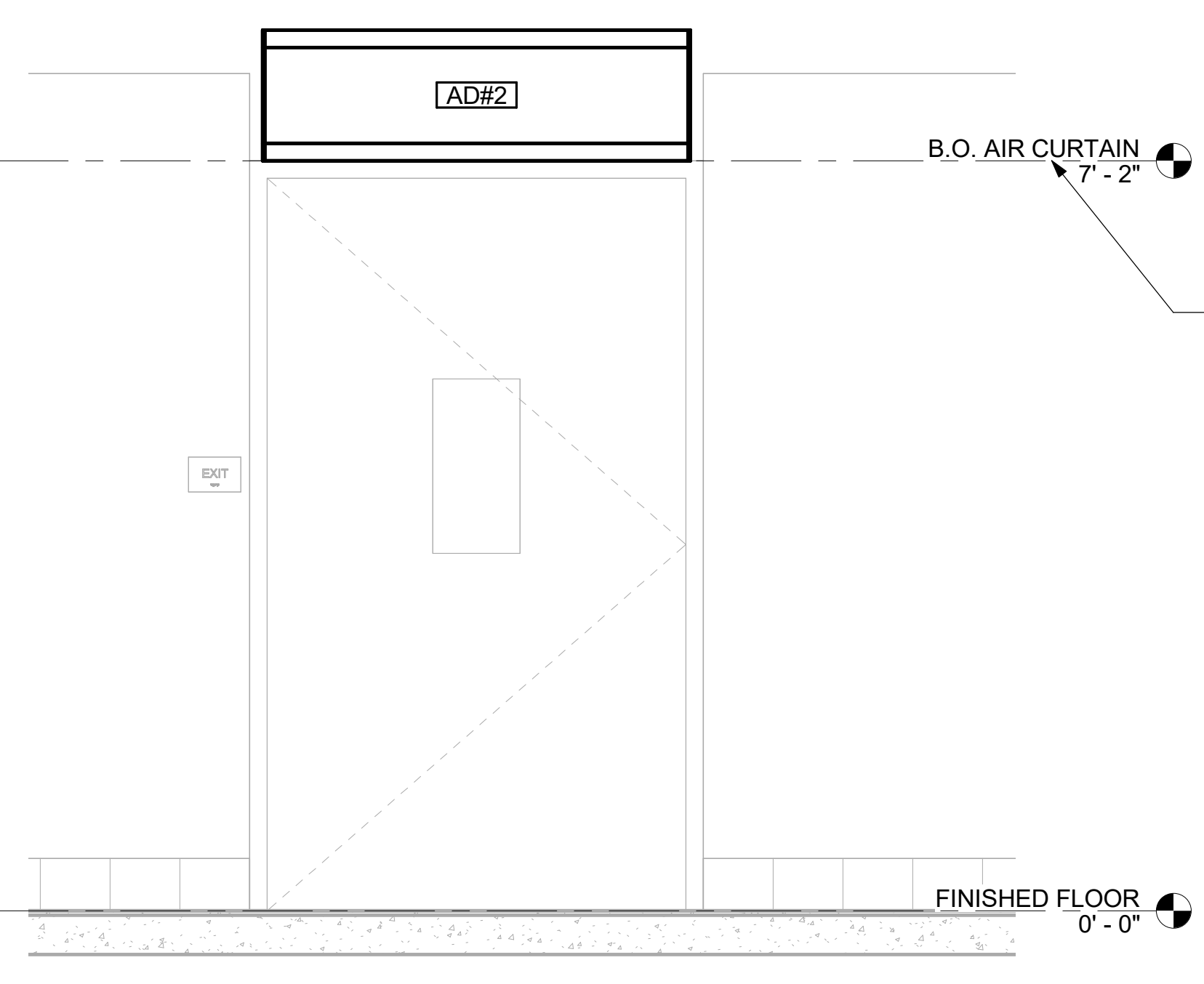
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30-LS-16-24-6002-M-502-DETAILS



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



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



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

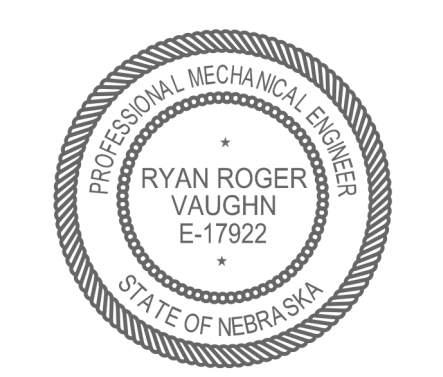
OUTLET VANE FACTORY SET TO ACHIEVE AN APPROXIMATE 20° ANGLE OF DISCHARGE - READJUST BACK TO +/-20° IN CASE VANE POSITION SHIFTED DURING SHIPPING OR INSTALLATION.



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



HFA-AE, L.T.D.
1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ac.com



CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

FSR#05792
BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02
PRINTED FOR
OTP

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

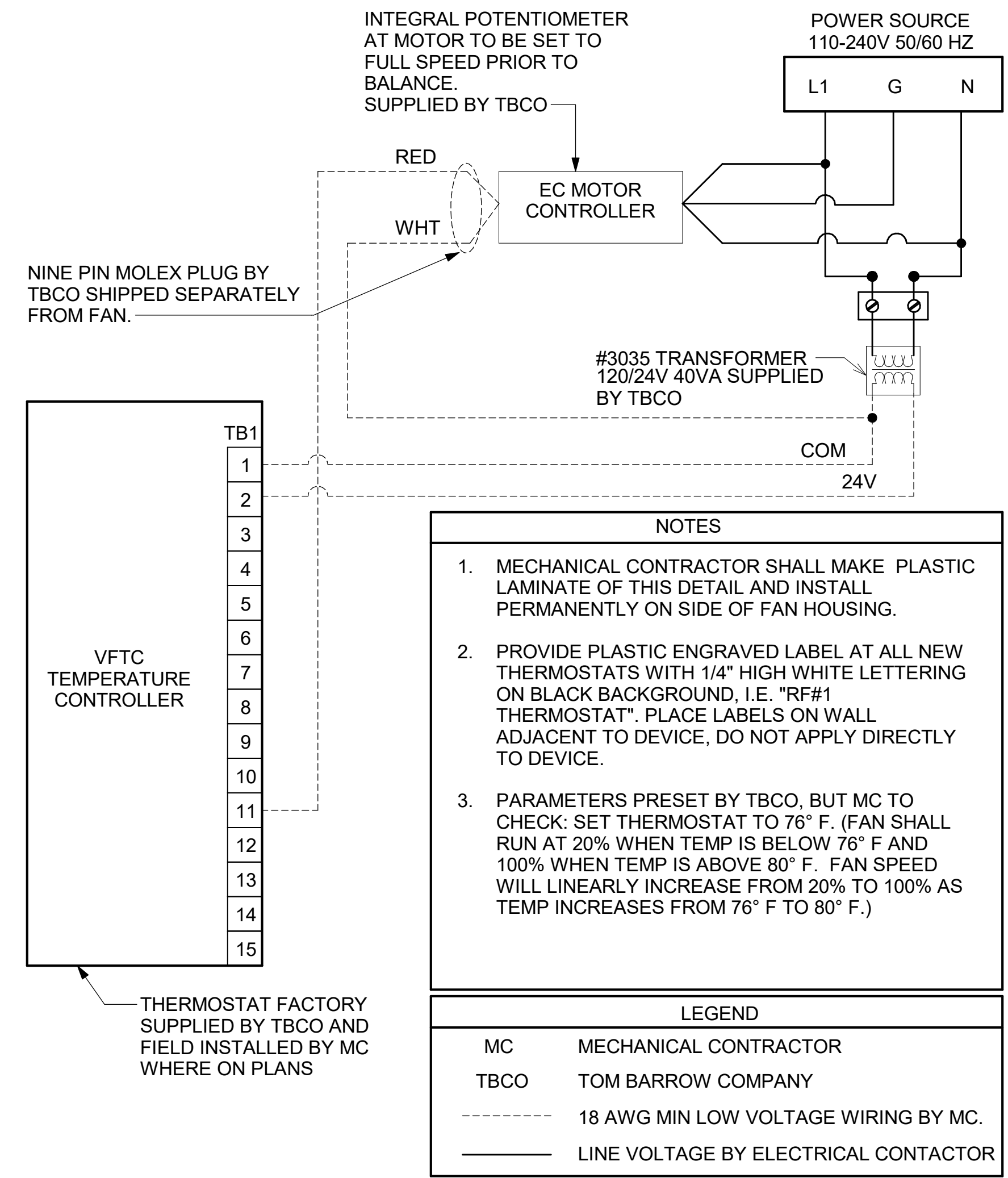
CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024

DRAWN BY BRM
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SHEET DETAILS

SHEET NUMBER
M-502

6/10/2024 11:19:35 AM Autodesk Docs://NE_05792_North Platte (NE) FSU_2024_3_FSR05792_North Platte_NE_MEC.rvt
 30-LS-16-24-6002-M-702-CONTROL WIRING DIAGRAM



1 TECH CLOSET CONTROL DIAGRAM
 NOT TO SCALE



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 Atlanta, Georgia
 30349-2998



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 1-479-273-7780
 1705 S. Walton Blvd., Suite 3
 Bentonville, Arkansas 72712
 www.hfa-ac.com



CHICK-FIL-A
NEW RESTAURANT
 1902 SOUTH JEFFERS STREET
 NORTH PLATTE, NE 69101

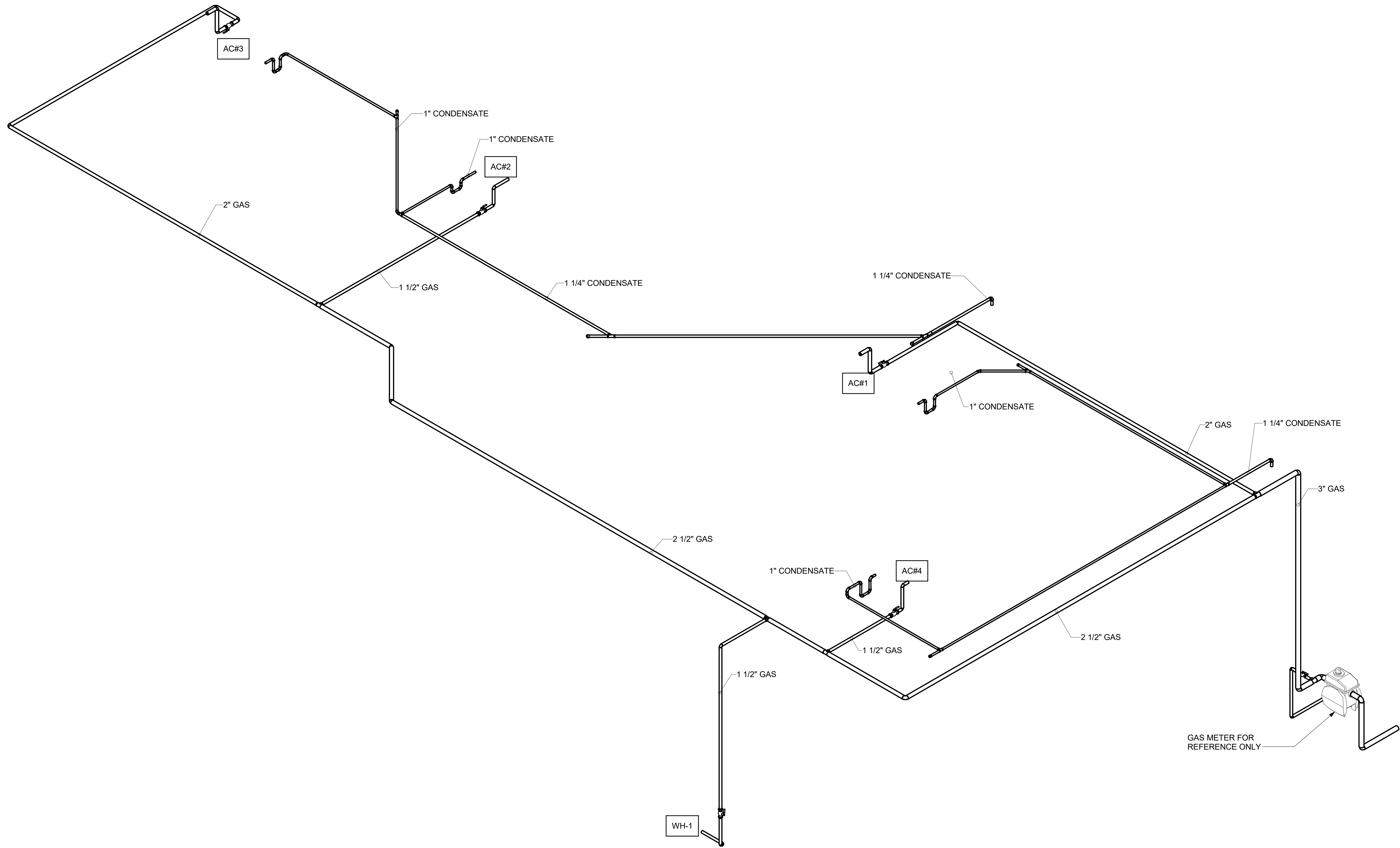
FSR#05792
 BUILDING TYPE / SIZE: SSAM LS BP
 RELEASE: 24.02
 PRINTED FOR
 OTP
 REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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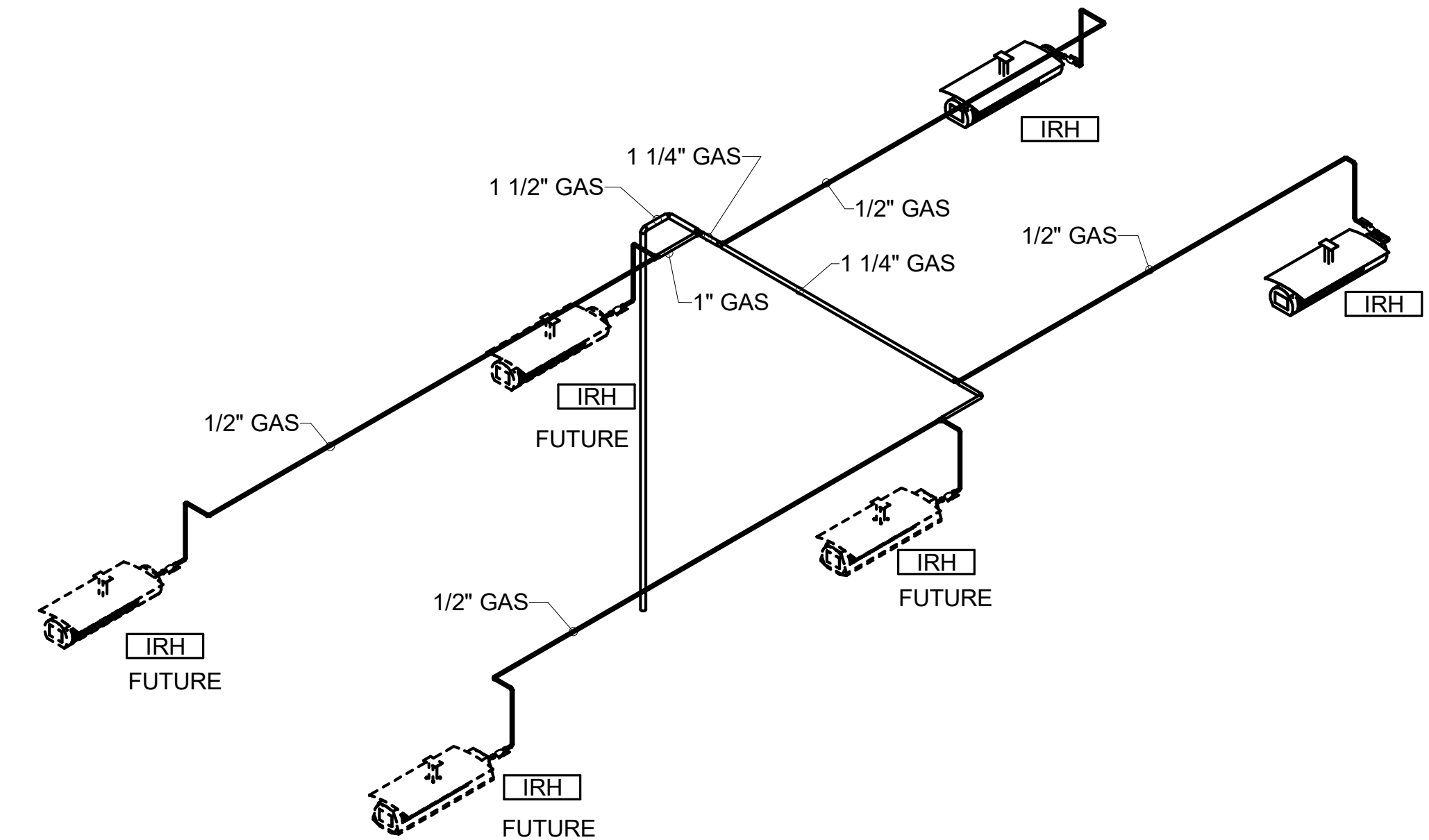
CONSULTANT PROJECT # 16-24-60002
 DATE 06/10/2024
 DRAWN BY BRM
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 SHEET CONTROL WIRING DIAGRAM
 SHEET NUMBER M-702

6/10/2024 11:19:38 AM Autodesk Docs://NE_05792_North Platte (NE) FSU_2024.3_FSR05792_North Platte_NE_MEC.rvt
 30-LS-16-24-6002-M-901L-GAS AND CONDENSATE ISOMETRIC - LENNOX

1 GAS AND CONDENSATE ISOMETRIC - LENNOX



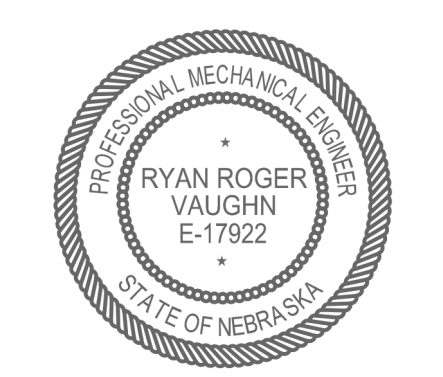
2 ORDER CANOPY GAS PIPING ISOMETRIC



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



HFA-AE, L.T.D.
 479.273.7780
 1705 S. Walton Blvd., Suite 3
 Bentonville, Arkansas 72712
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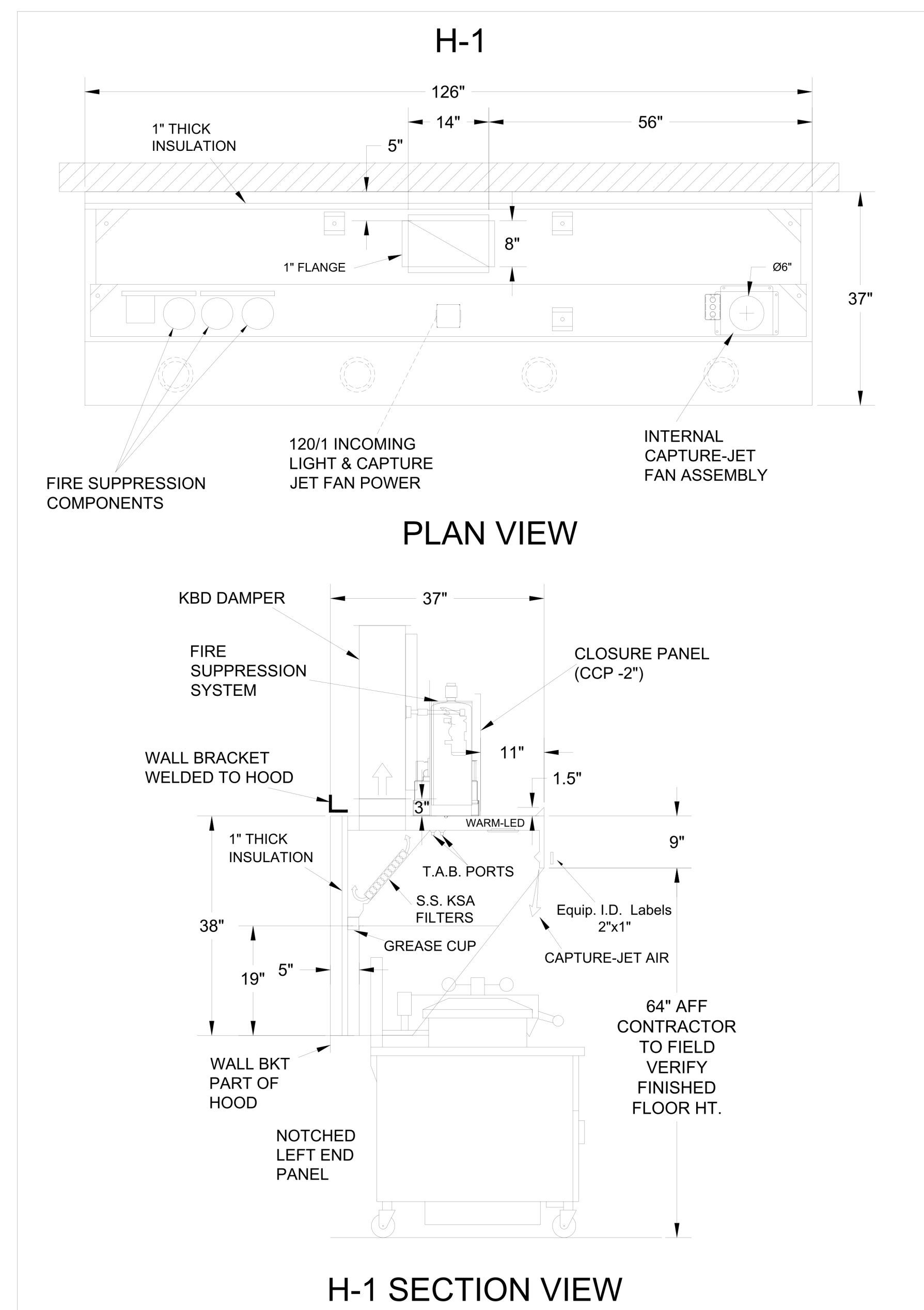
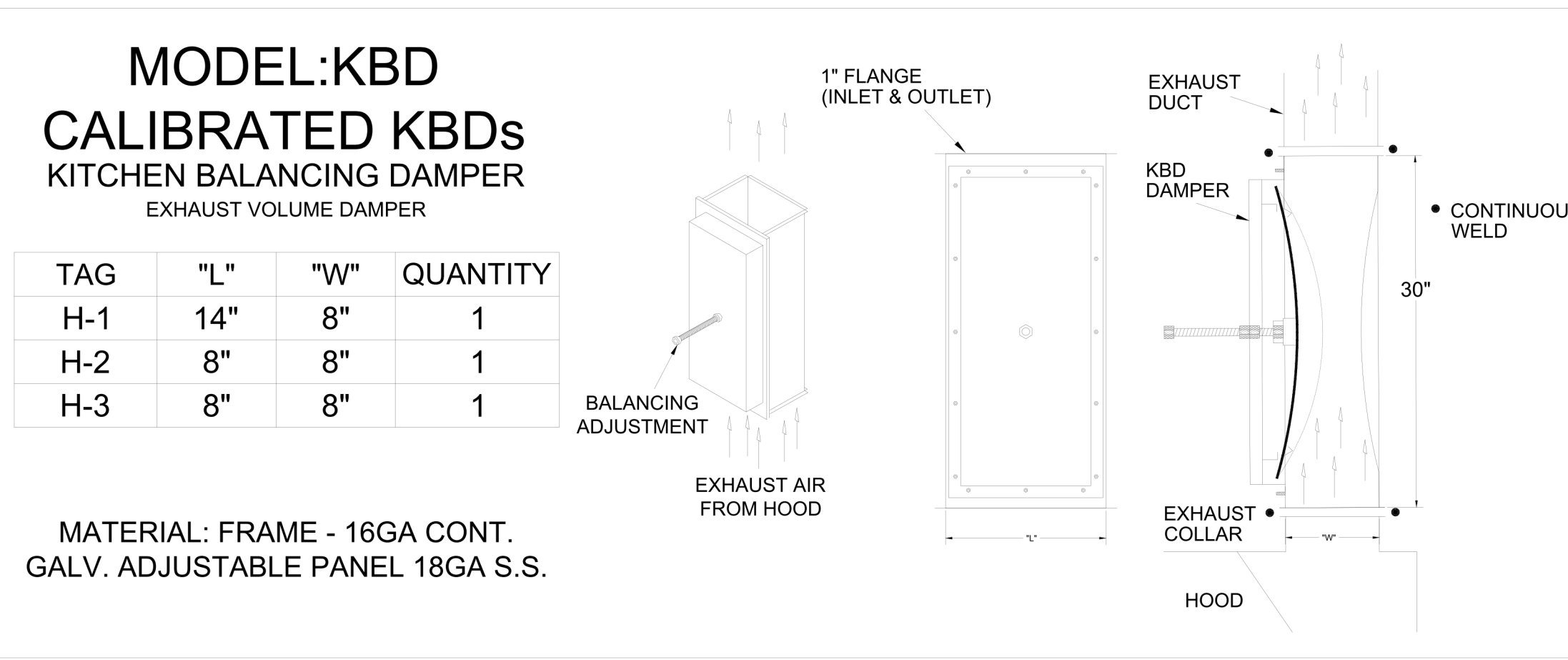
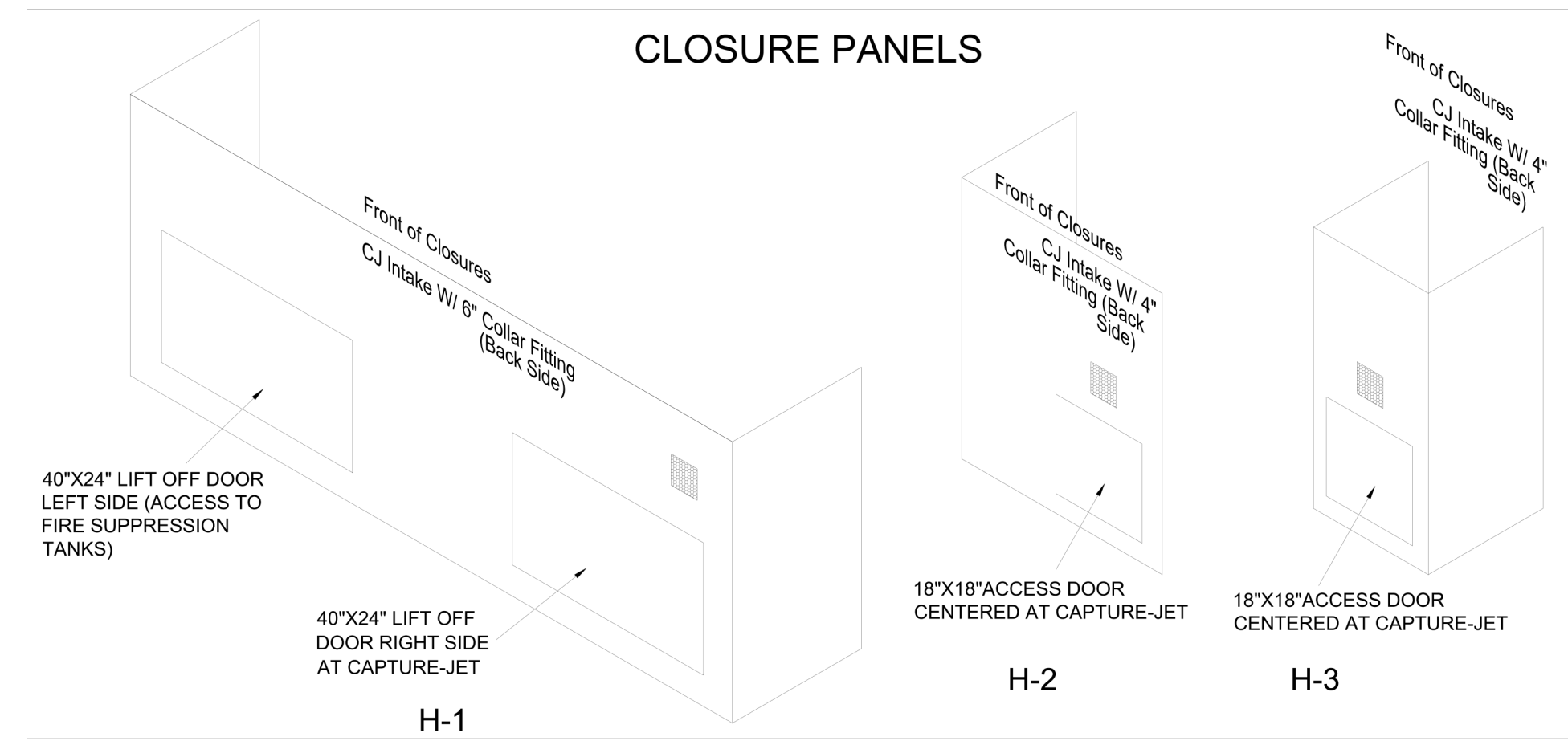
CHICK-FIL-A
NEW RESTAURANT
 1902 SOUTH JEFFERS STREET
 NORTH PLATTE, NE 69101

FSR#05792
 BUILDING TYPE / SIZE: SSAM LS BP
 RELEASE: 24.02
 PRINTED FOR:
 OTP
 REVISION SCHEDULE
 NO. DATE DESCRIPTION

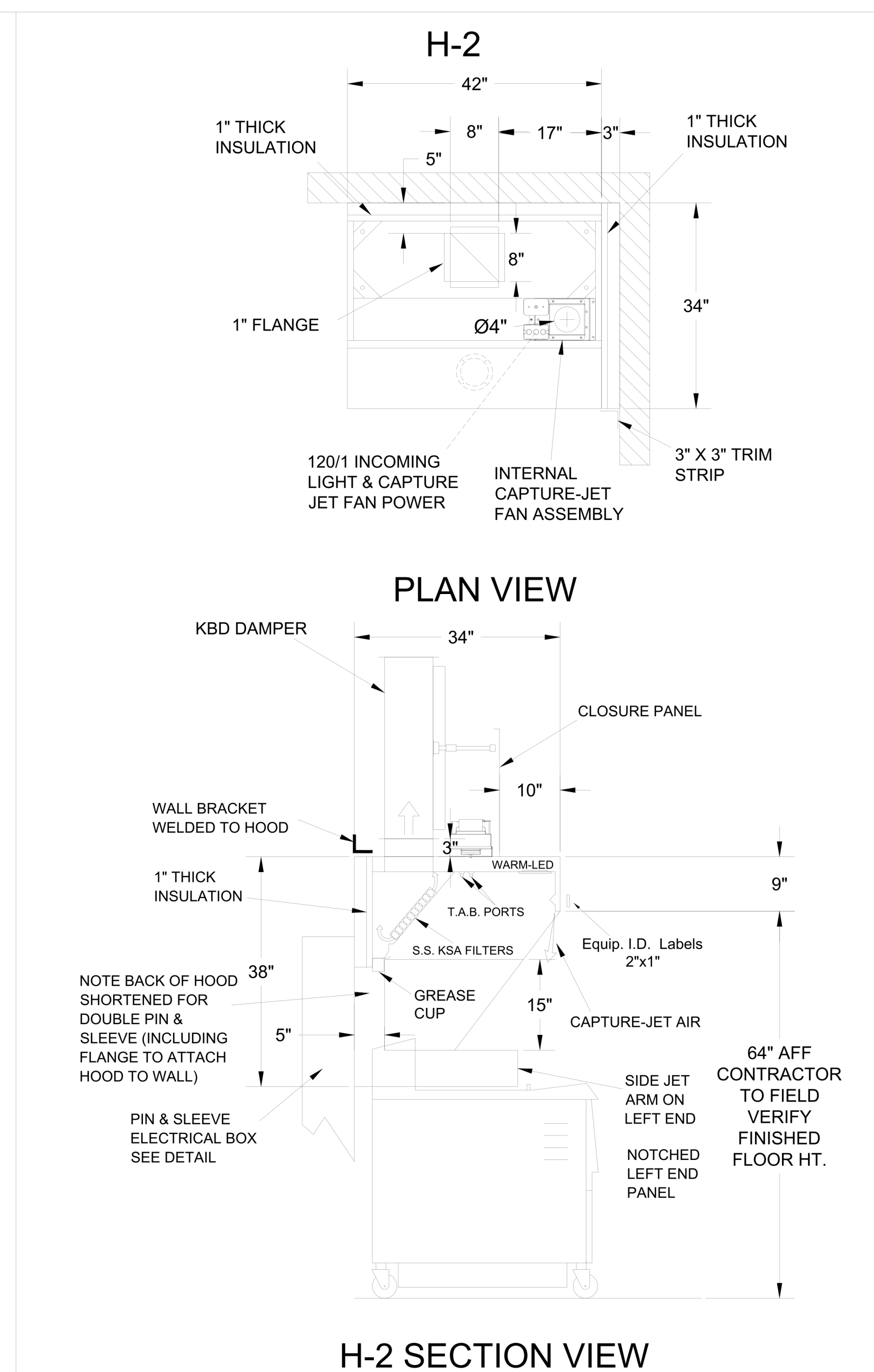
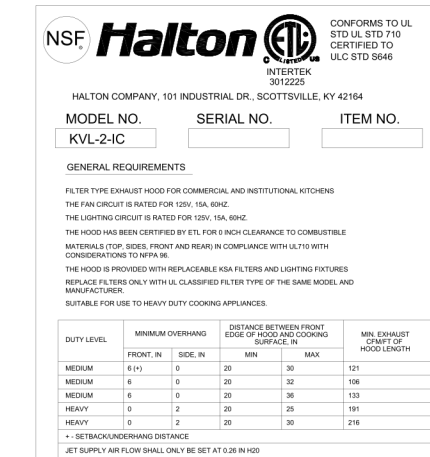
CONSULTANT PROJECT # 16-24-60002
 DATE 06/10/2024
 DRAWN BY BRM
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 SHEET
 GAS AND CONDENSATE ISOMETRIC - LENNOX
 SHEET NUMBER

M-901L

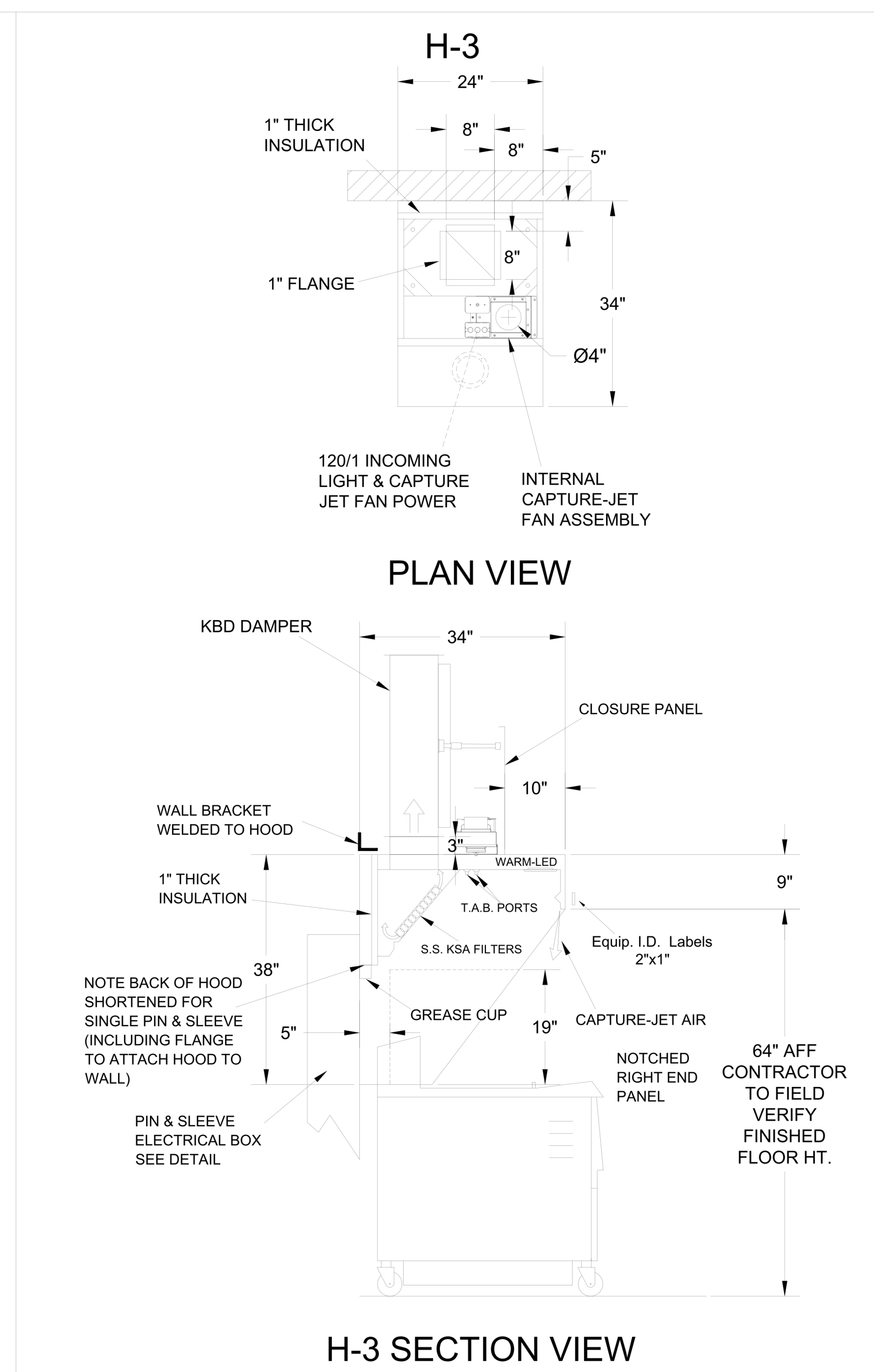
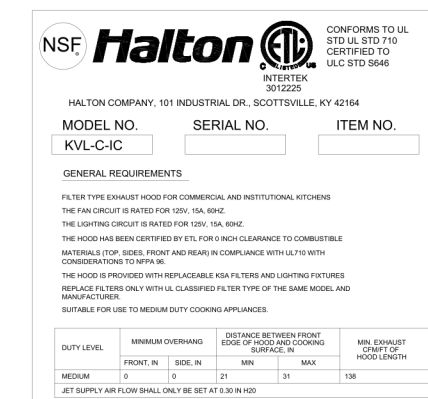
HOOD MODEL	HOOD NUMBER	EXHAUST COLLAR			EXHAUST AIR INFORMATION			CAPTURE AIR INFORMATION		S.S. KSA FILTERS		LED LIGHTS		CEILING CLOSURES			KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL
		QTY	LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF	QTY	LED LIGHTS	QTY	CLOSURE HEIGHT	CEILING HEIGHT			
KVL-2-IC	H-1	1	14"	8"	1418	0.12"	0.24"	95	0.30"	6	-	4	3	51"	122"	788 LBS	*	4106	ALL 18 GA 430 S.S.
KVL-C-IC	H-2	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	2			245 LBS	*	1291	
KVL-D-IC	H-3	1	8"	8"	390	0.37"	0.42"	18	0.30"	1	-	1	3			150 LBS	*	646	



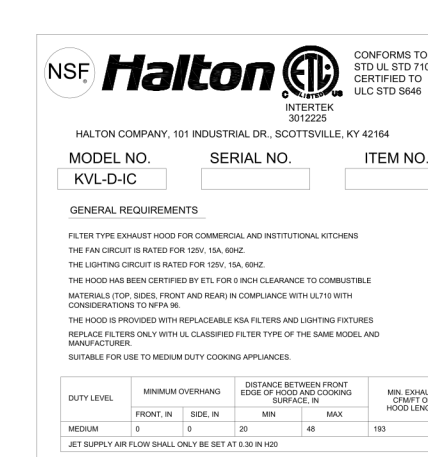
- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 40"x24" LIFT OUT DOOR LEFT SIDE (ACCESS TO FIRE SUPPRESSION)
- 40"x24" LIFT DOOR RIGHT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL
- GREASE CUP RIGHT END
- ANSUL WEIGHT = 284 LBS



- 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
- GREASE CUP RIGHT END



- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- SIDE-JET PLENUM SUPPLIED BY HALTON. INSTALLED BY OTHERS (DETAIL "A", SHEET 2)
- NOTCHED RIGHT END PANEL
- CUSTOM 10" SINGLE RECEPTACLE PIN & SLEEVE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END



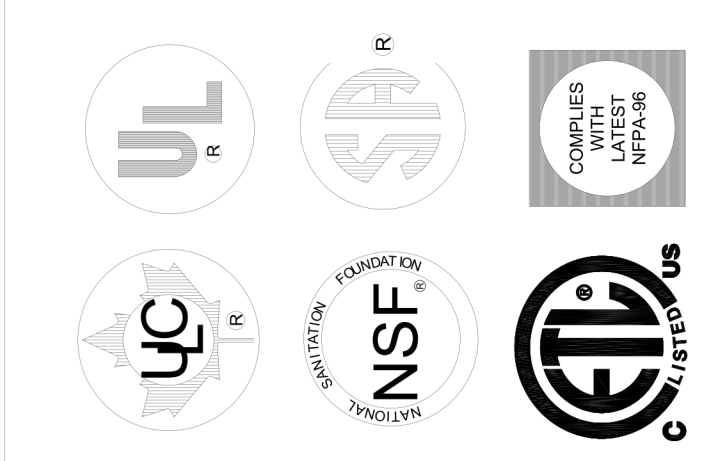
THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISION AND RESUBMIT: WITH NO CHANGES WITH CHANGES AS NOTED

APPROVED FOR FABRICATION: _____ DATE: _____



WEBSITE: www.halton.com

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

REV.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, KY 42164
1-270-237-5600

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

PROJECT: CHICK-FIL-A SSAM #5792
NORTH PLATTE

LOCATION: NORTH PLATTE, NE
DRAWN BY: SKK
SCALE: NOT TO SCALE

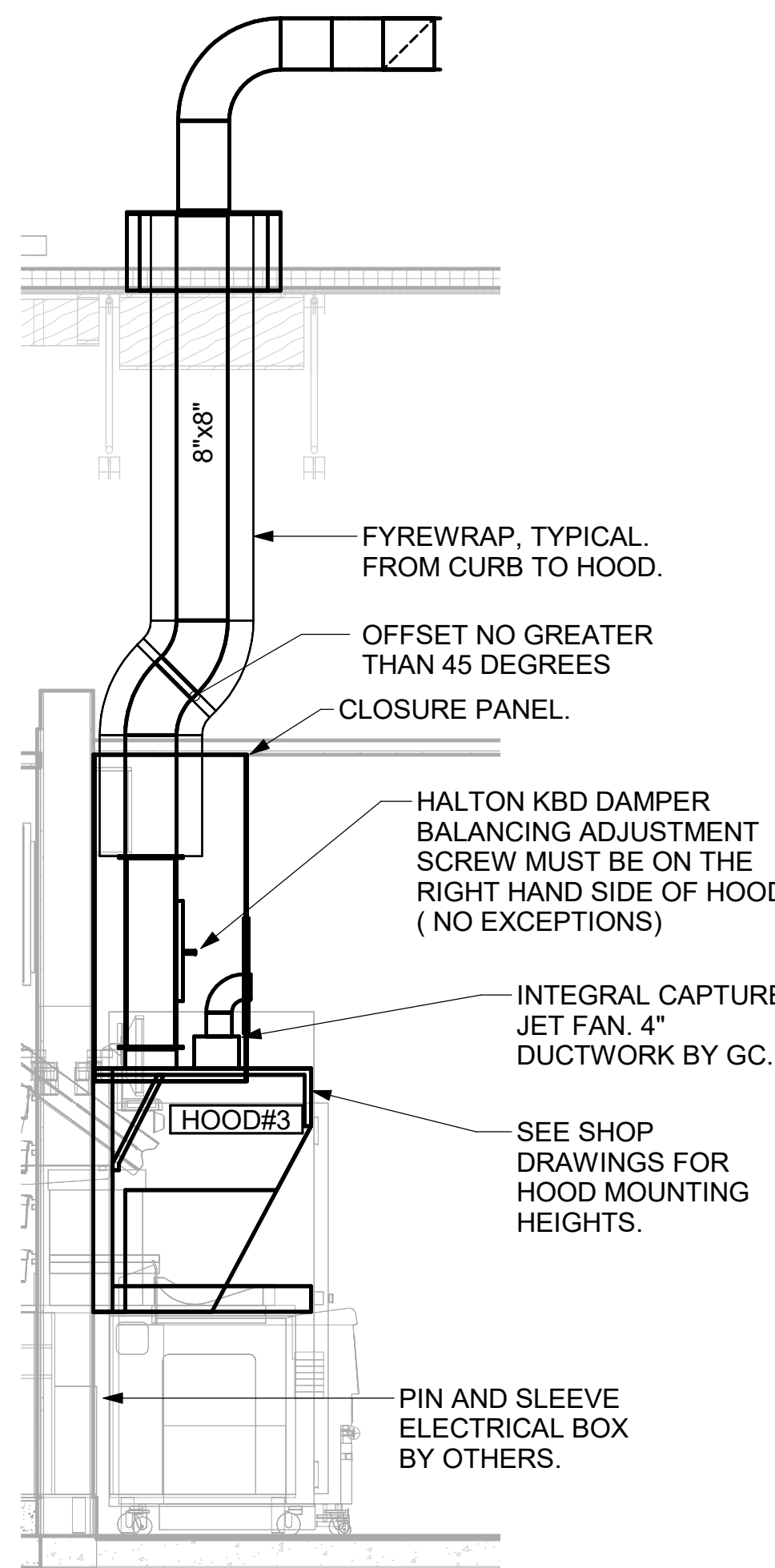
DATE: 08.08.24

DRAWING NO.: U24-617-01
SHEET NO.: H-1.1

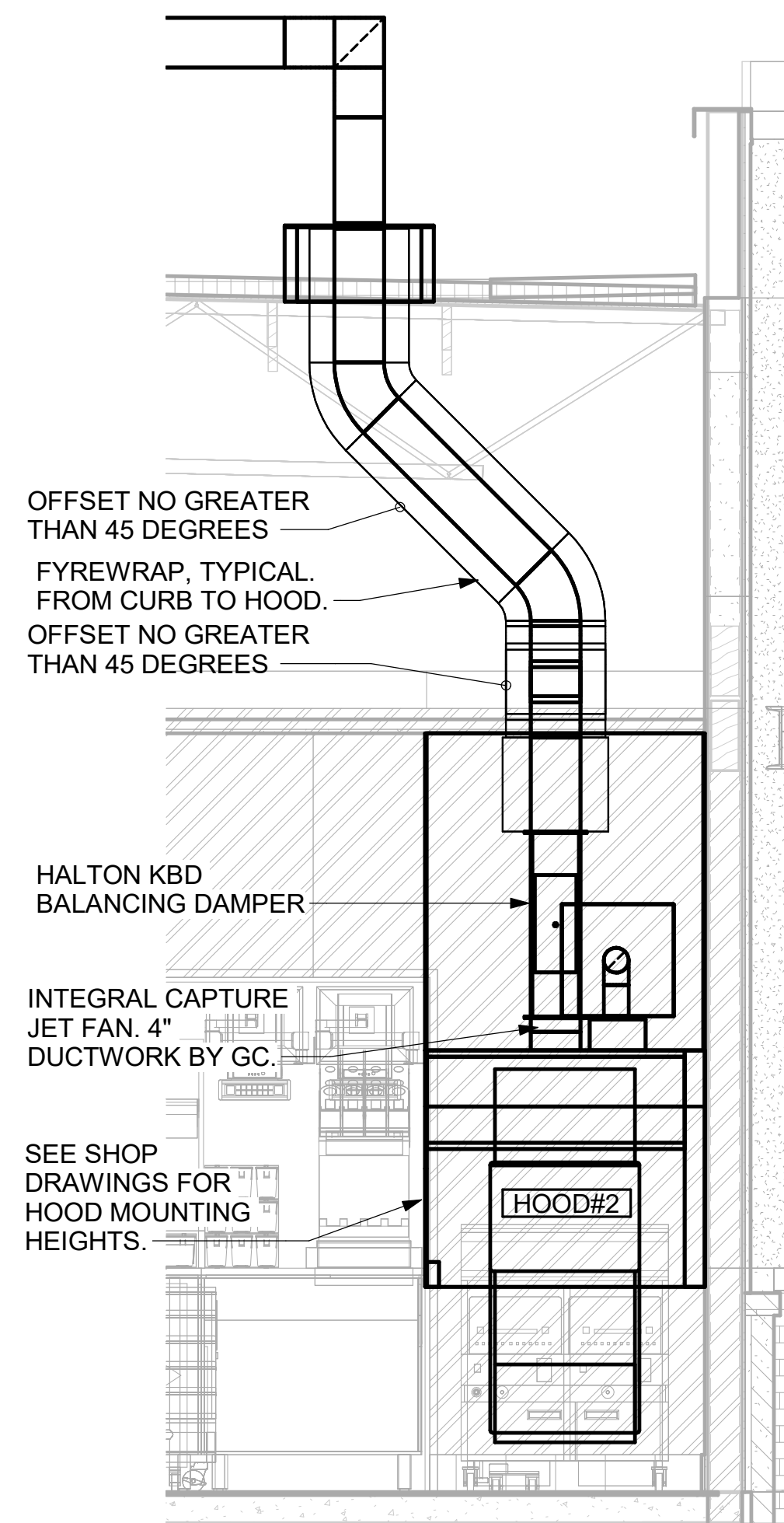
6/10/2024 11:19:20 AM Autodesk Docs://NE_05792_North Platte (NE) FSU_2024.3_FSR05792_North Platte_NE_MEC.rvt
30-LS-16-24-8002-M-201-EXHAUST HOOD ELEVATIONS

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.

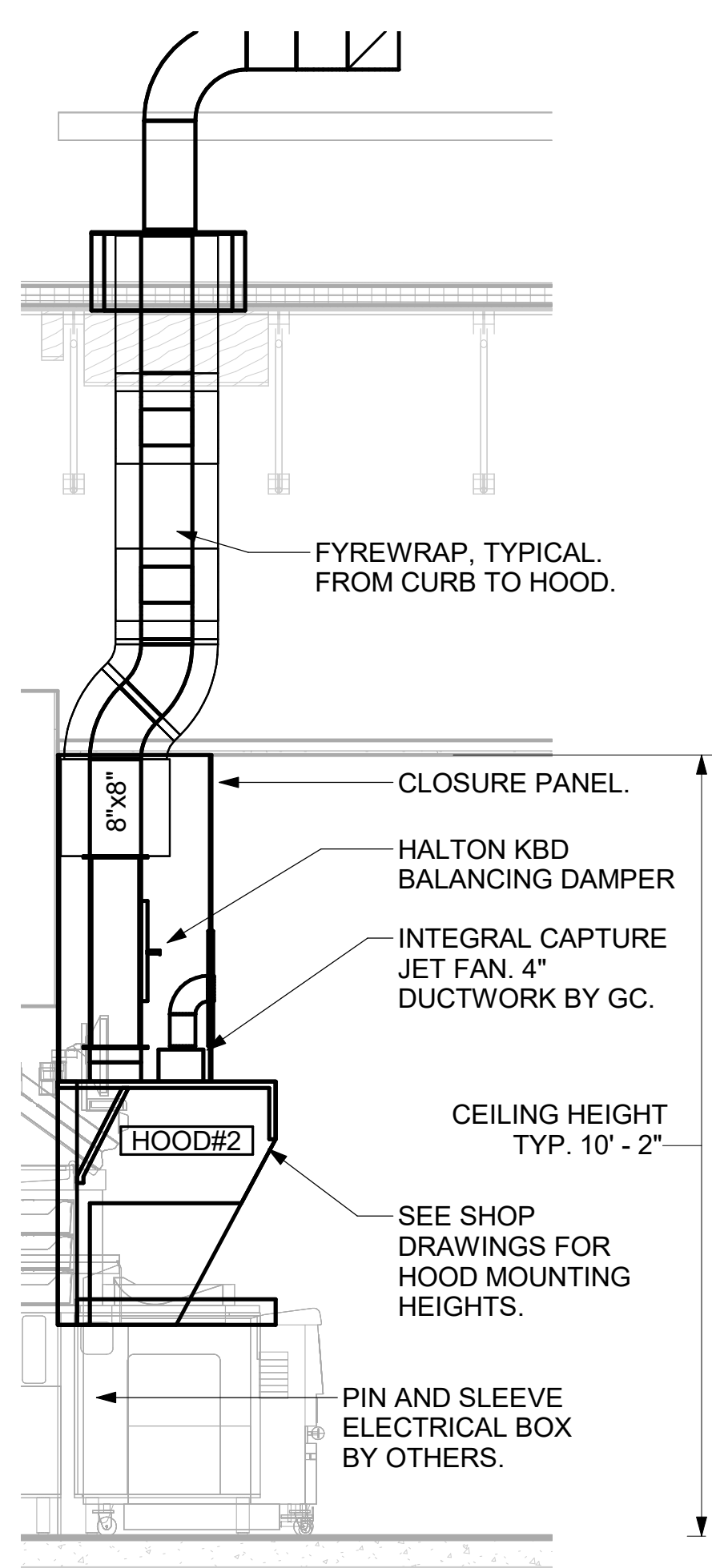
CLEANOUT DOOR NOTE:
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.



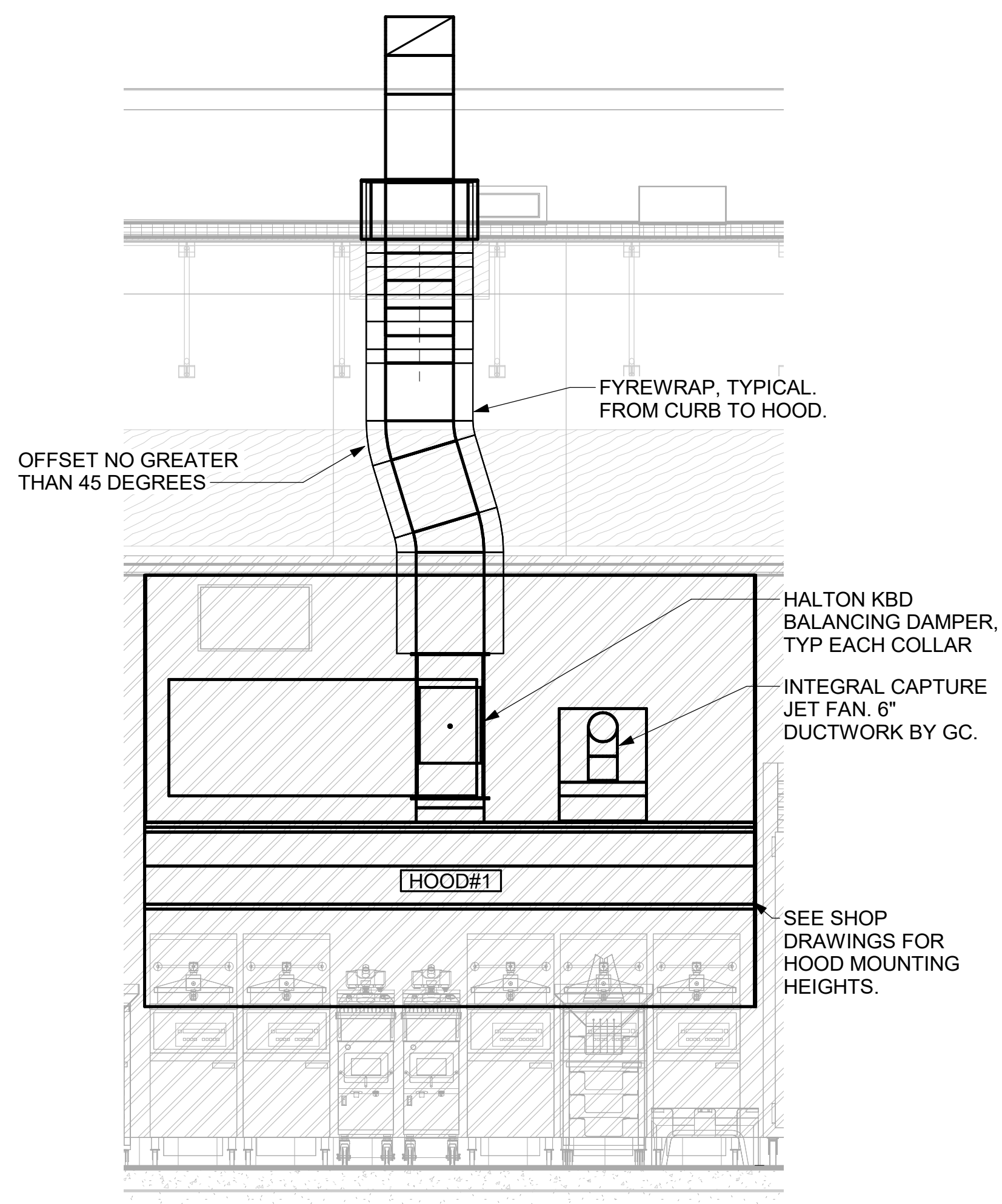
5 HOOD ELEVATION - HOOD#3
NOT TO SCALE



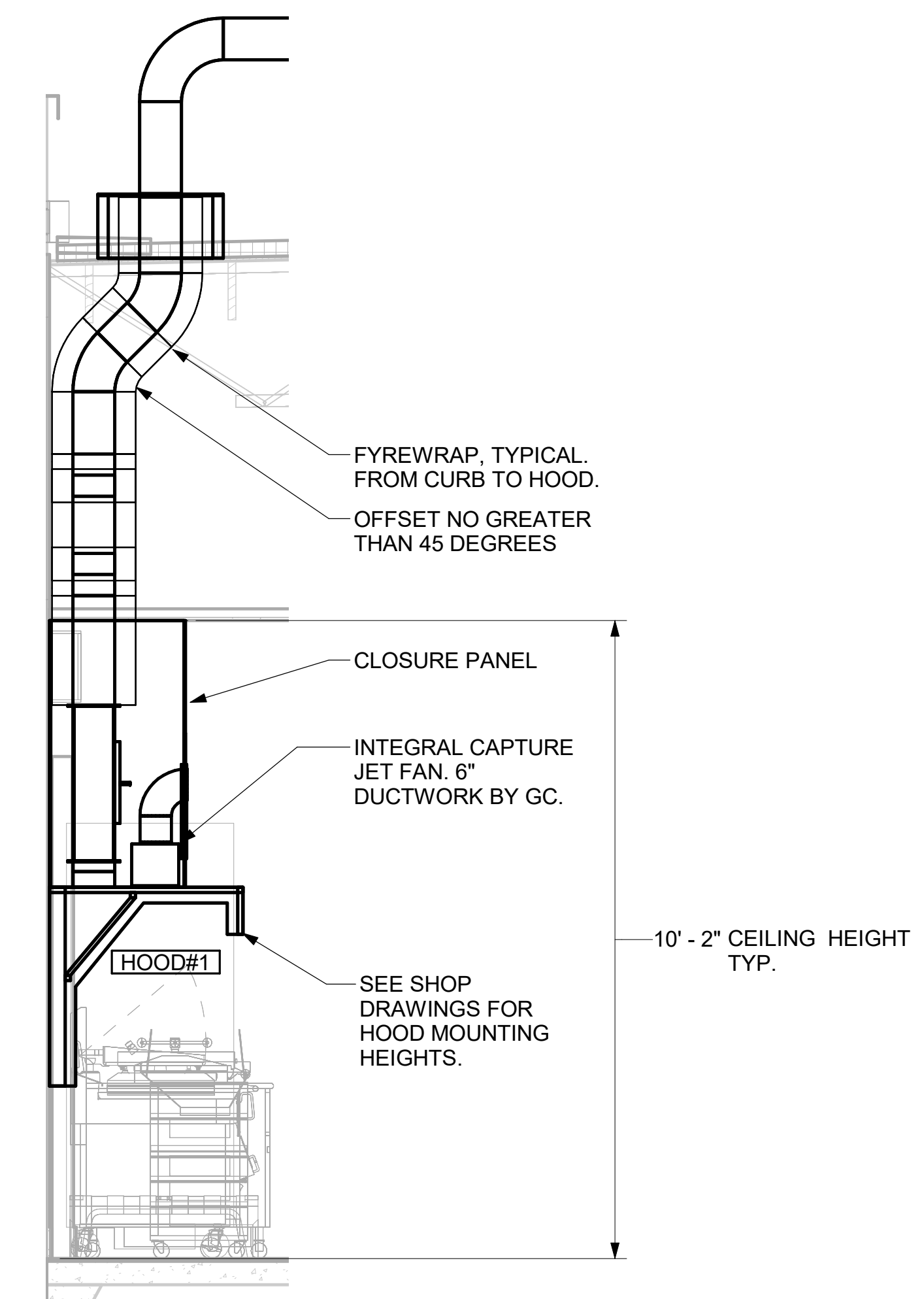
4 HOOD ELEVATION - HOOD#2 - FRONT
NOT TO SCALE



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



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



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



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



HFA
HFA-AE, L.T.D.
479.273.7780
1705 S. Walton Blvd., Suite 3
Brentwood, Arkansas 72712
www.hfa-ac.com



CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

FSR#05792
BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02
PRINTED FOR
OTP

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024

DRAWN BY BRM
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EXHAUST HOOD ELEVATIONS

SHEET NUMBER
M-201

DIVISION 15 SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

- A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY FOR COORDINATION.
- B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.
- E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS, DUCTWORK AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT

- A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.
- B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.
- C. COMPRESSORS SHALL BE HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.
- D. THE UNIT HEAT EXCHANGERS SHALL BE ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM. COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. HEAT EXCHANGERS SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.

2.02 DUCTWORK (C15735)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION SHALL BE: JOHNS MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.
- D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.
- E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.
- F. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.
- J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION. RESTROOM ROUND EXHAUST DUCT SHALL BE EXTERNALLY INSULATED PER SECTION 2.02F.
- K. DUCT DROPS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.
- L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0". NO EXCEPTIONS.
- M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER, ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE. FLEX DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.
- N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH EDITION" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.
- O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
- P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT ALL 90 DEGREE ELBOWS WHERE THE CENTERLINE RADIUS (R) IS LESS THAN THE WIDTH OF THE DUCT AND ANY ONE DIMENSION IS GREATER THAN 12".
- Q. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS

- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR WHERE PERMITTED BY AHJ.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.
- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.
- G. THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENTAL CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. REMOTE TEMPERATURE SENSOR(S) FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR(S) AND THE ROOFTOP UNIT.
- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

2.04 PIPING

- A. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.
- B. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

- C. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.
- D. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

- E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - EXECUTION

3.01 SCOPE

- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.
- C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RETORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.

3.02 LEED PROJECTS

- A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.
- B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.
- C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.
- D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAN FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.
- E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3.03 TEST & BALANCE

- A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.
- B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.
- C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.
- D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...
- E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.

KITCHEN HOOD SYSTEMS NOTES

- 1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
- 2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET CHEMICAL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
- 3. THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED INSTALLER SELECTED AND HIRED BY HALTON. COST FOR INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
- 4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
- 5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
- 6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
- 8. WRAP NEW GREASE DUCT WITH UNIFRAX FYREWAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
- 9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 18" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.

GENERAL NOTES

- 1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- 2. FLEXIBLE DUCT AND INSULATION NOT SHOWN FOR CLARITY.
- 3. FOR ALL ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. WITH A SELF ADHESIVE BACKING.
- 4. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
- 5. ALL EXHAUST DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS PRO INDUSTRIAL DTM ACRYLIC COATING, SEMI-GLOSS, WHITE. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS PRO INDUSTRIAL PRO-CRYLACRYLIC UNIVERSAL PRIMER, WHITE, PRIOR TO PAINTING.
- 6. MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

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.).

LEGEND			
A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	[AC#1]	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD FLEXIBLE DIFFUSER		RETURN/EXHAUST (TYP.)
	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
	HUMIDITY SENSOR		PLAN NOTE REFERENCE
	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
[SW]	AIR DOOR SWITCH		CLOSED AIR PATTERN DEFLECTOR
EIH	ELECTRIC INFRARED HEATER	[GIH]	GAS INFRARED HEATER (TYP.)
		B/G	BELOW GRADE
			THERMOSTAT

ABBREVIATIONS	
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
O.C.	ON CENTER
IRH	INFRARED HEATER
CF	CIRCULATING FAN
TF	TRANSFER FAN
EF	EXHAUST FAN



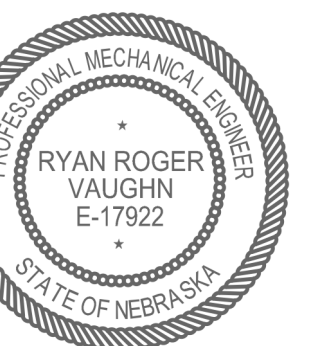
Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



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1-479-273-7780

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CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

FSR#05792

BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02

PRINTED FOR
OTP

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 16-24-0002
DATE 06/10/2024

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GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS.
SHEET NUMBER

M-001

FIRE EXTINGUISHER

ISO VIEW W/BACKET

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

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

ANSUL MICROSWITCH DETAIL

POWER TO COOKING EQUIPMENT SHUNT TRIP BREAKER (BY OTHERS)

VOLTAGE FREE N/C CONTACTS FOR INTERCONNECTION TO THE MUA HVAC SYSTEM

VOLTAGE FREE N/O CONTACTS FOR INTERCONNECTION TO THE COOKING EQUIP. SHUNT TRIP

VOLTAGE FREE EXTRA CONTACTS TO THE BUILDING ALARM SYSTEM

UPPER SWITCHES: BLACK, RED, BROWN, BLACK, RED, BROWN

LOWER SWITCHES: BLACK, RED, BROWN, BLACK, RED, BROWN

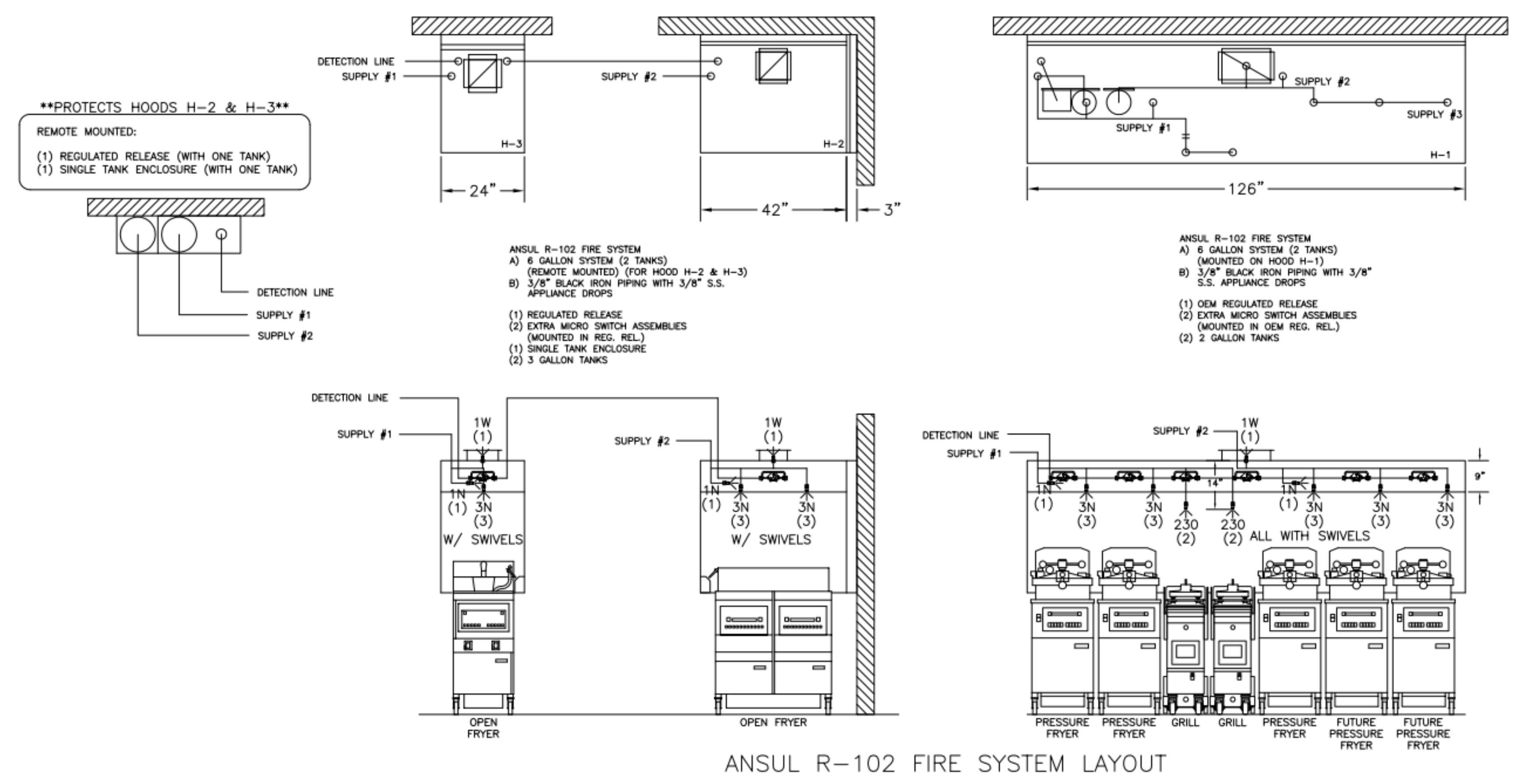
UPPER SWITCH: RED (COMMON), BLACK (NORMALLY OPEN), BROWN (NORMALLY CLOSED)

LOWER SWITCH: BROWN (NORMALLY OPEN), BLACK (NORMALLY CLOSED), RED (COMMON)

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



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
 TWO TANK SYSTEM MOUNTED ON TOP OF (H-1)
 MAXIMUM FLOW POINTS = 22

ANSUL R-102 FIRE SYSTEM NOTES
 TWO TANK SYSTEM REMOTE MOUNTED
 MAXIMUM FLOW POINTS = 22

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	3	DUCT NOZZLES	3
1N	10022	4	PLENUM NOZZLES	4
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	8	APPLIANCE NOZZLES	24
TOTAL FLOW POINTS				35
ITEM	QTY	DESCRIPTION		
#200	10035	6	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	4	3 GALLON TANKS	
#204	10044	1	SINGLE TANK ENCLOSURE	
#205	10040	2	REMOTE PULL STATION	
#206	10065	4	DOUBLE TANK NITROGEN CARTRIDGE	
#207	11128	4	3 GALLON ANSULEX CONTAINER	

ANSUL R-102 FIRE SYSTEM
 UL LISTED PER STD LATEST STD 300

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES

2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER

3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

FIRE EXTINGUISHER

ISO VIEW W/BACKET

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

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

AMEREX MICROSWITCH DETAIL

POWER TO COOKING EQUIPMENT SHUNT TRIP BREAKER (BY OTHERS)

VOLTAGE FREE N/C CONTACTS FOR INTERCONNECTION TO THE MUA HVAC SYSTEM

VOLTAGE FREE N/O CONTACTS FOR INTERCONNECTION TO THE COOKING EQUIP. SHUNT TRIP

VOLTAGE FREE EXTRA CONTACTS TO THE BUILDING ALARM SYSTEM

UPPER SWITCHES: BLACK, RED, YELLOW, BLACK, RED, YELLOW

LOWER SWITCHES: BLACK, RED, YELLOW, BLACK, RED, YELLOW

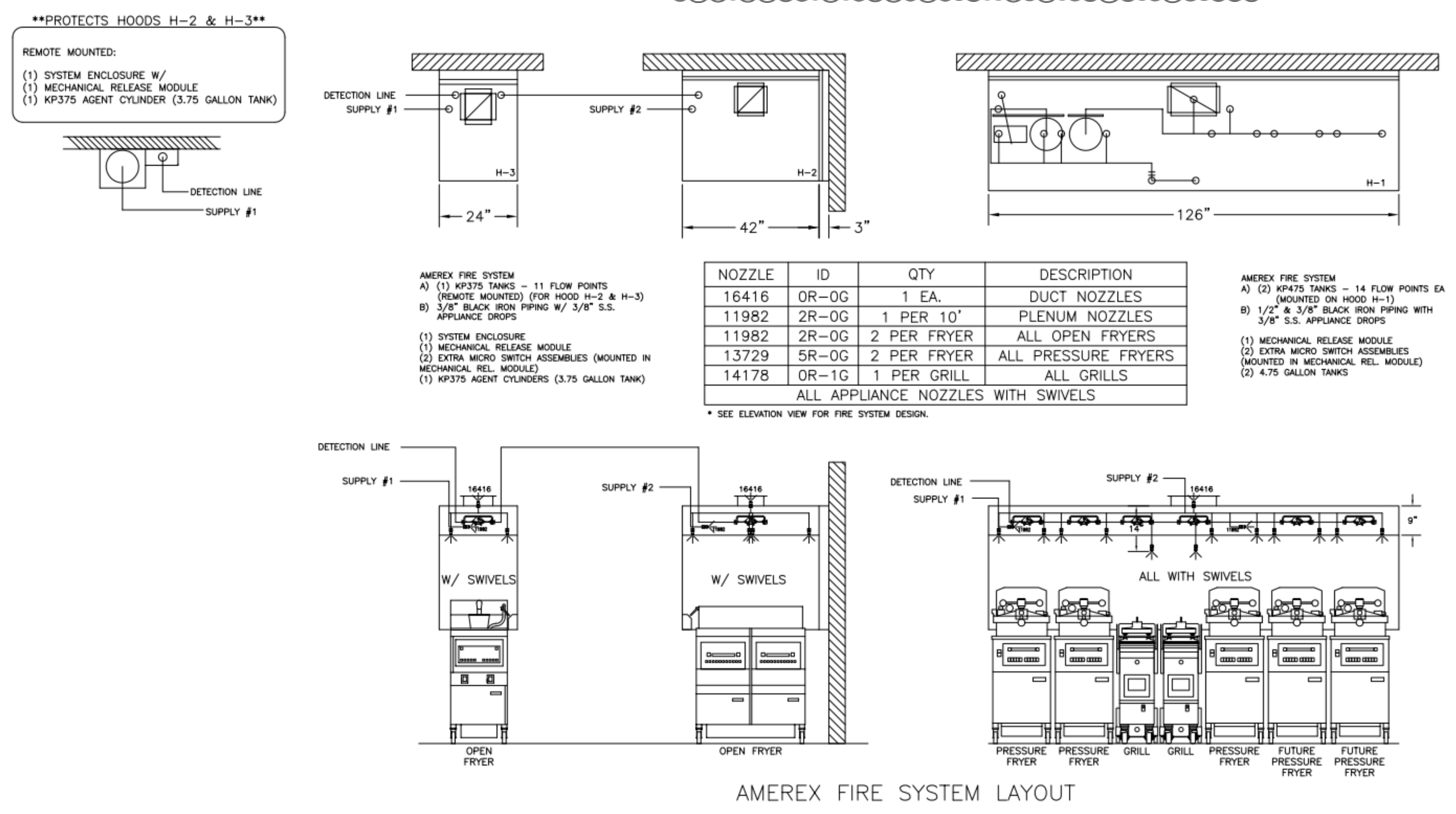
UPPER SWITCH: RED (COMMON), BLACK (NORMALLY OPEN), BROWN (NORMALLY CLOSED)

LOWER SWITCH: BROWN (NORMALLY OPEN), BLACK (NORMALLY CLOSED), RED (COMMON)

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



NOZZLE	ID	QTY	DESCRIPTION
16416	0R-0G	1 EA.	DUCT NOZZLES
11982	2R-0G	1 PER 10'	PLENUM NOZZLES
11982	2R-0G	2 PER FRYER	ALL OPEN FRYERS
13729	5R-0G	2 PER FRYER	ALL PRESSURE FRYERS
14178	0R-1G	1 PER GRILL	ALL GRILLS
ALL APPLIANCE NOZZLES WITH SWIVELS			

* SEE ELEVATION VIEW FOR FIRE SYSTEM DESIGN.

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-1)
 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	3	DUCT NOZZLES	3	
11982	4	PLENUM NOZZLES	4	
11982	6	APPLIANCE NOZZLES	6	
14178	2	APPLIANCE NOZZLES	4	
13729	10	APPLIANCE NOZZLES	20	
TOTAL FLOW POINTS				37
ITEM	QTY	DESCRIPTION		
12508-P001	8	DETECTORS BRACKET ASSEMBLY		
13334	1	KP375 AGENT CYLINDER		
17379	2	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

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES

2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY AMEREX INSTALLER

3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

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

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER
 ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EQUIPMENT AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

APPROVED FOR FABRICATION WITH NO CHANGES WITH CHANGES AS NOTED

APPROVED BY _____ DATE _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: www.halton.com

HALTON CO. (USA)
 101 INDUSTRIAL DRIVE
 SCOTTSDALE, KY 42164
 1-270-237-5600

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

PROJECT: CHICK-FIL-A SSAM NAME _____

LOCATION: -- -- DATE: 02.01.24

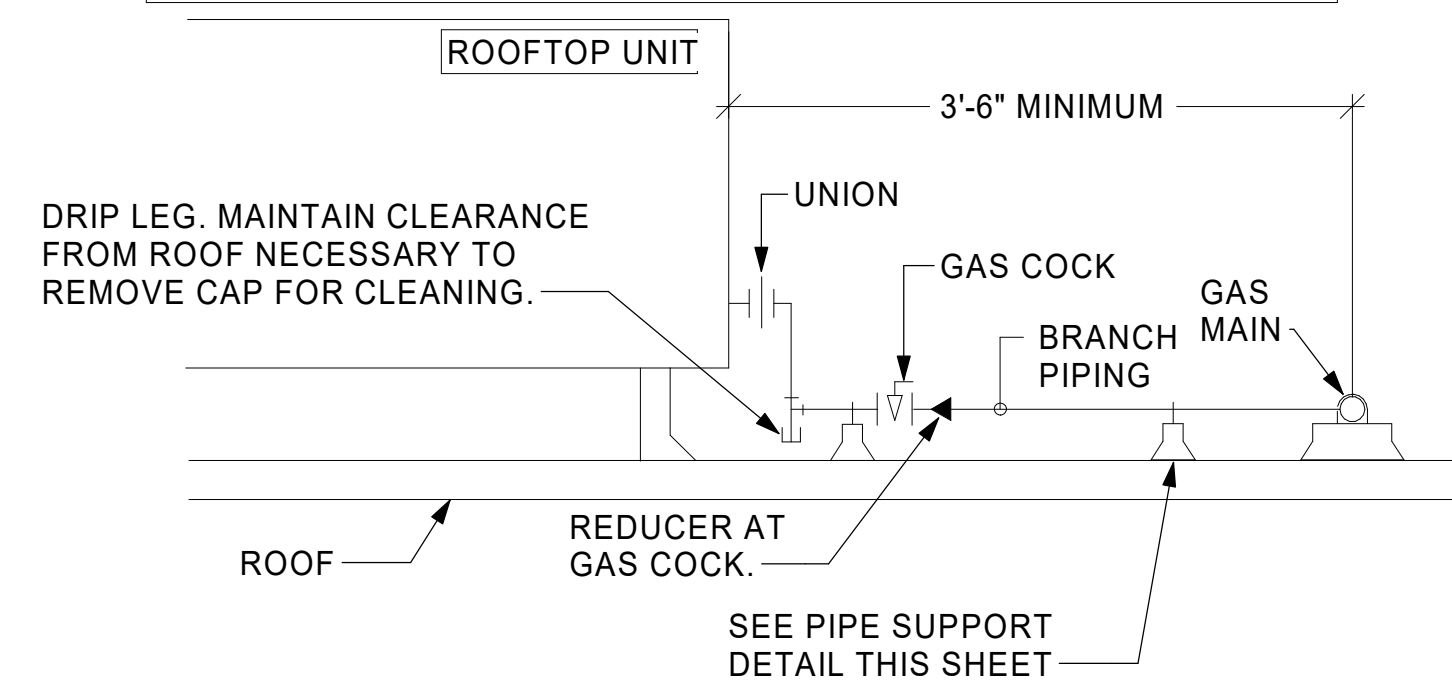
DRAWN BY: SKK SCALE: NOT TO SCALE

DRAWING No.: U24-089-03

SHEET NO.: MH-1.3

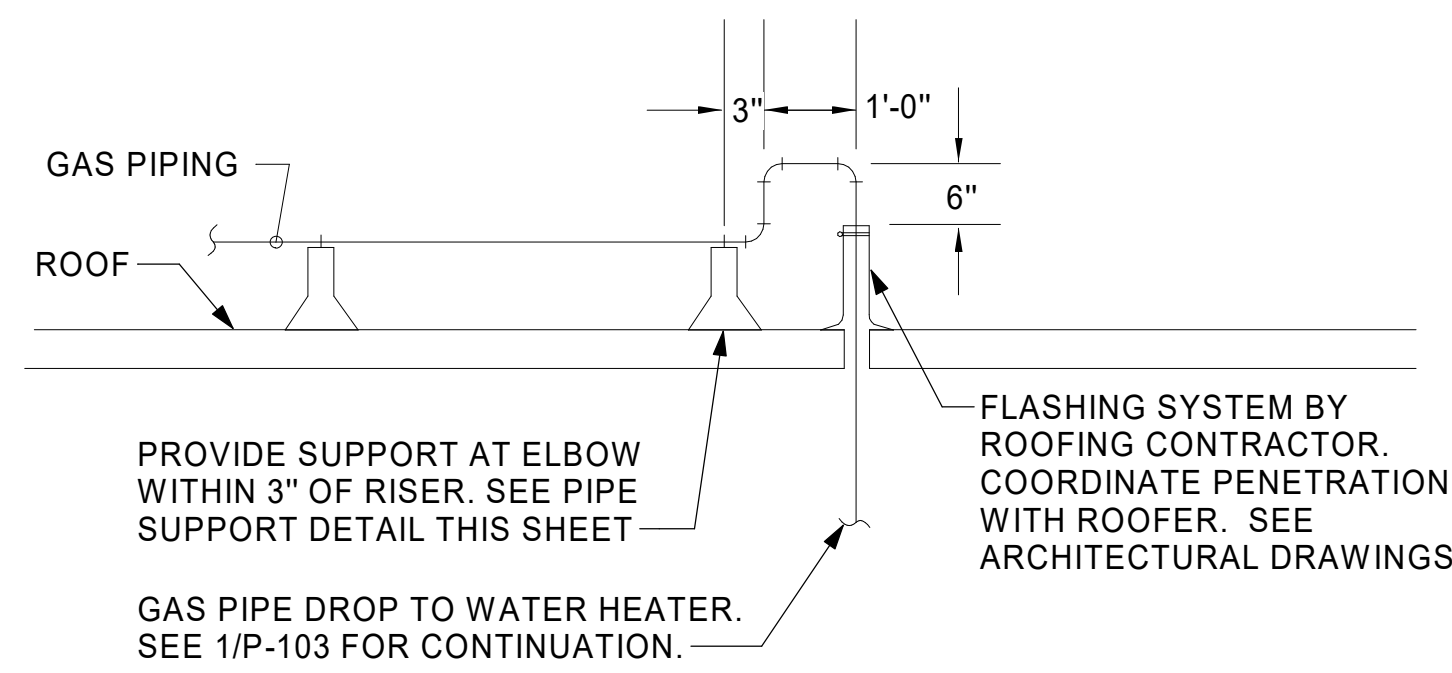
Halton

- 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.

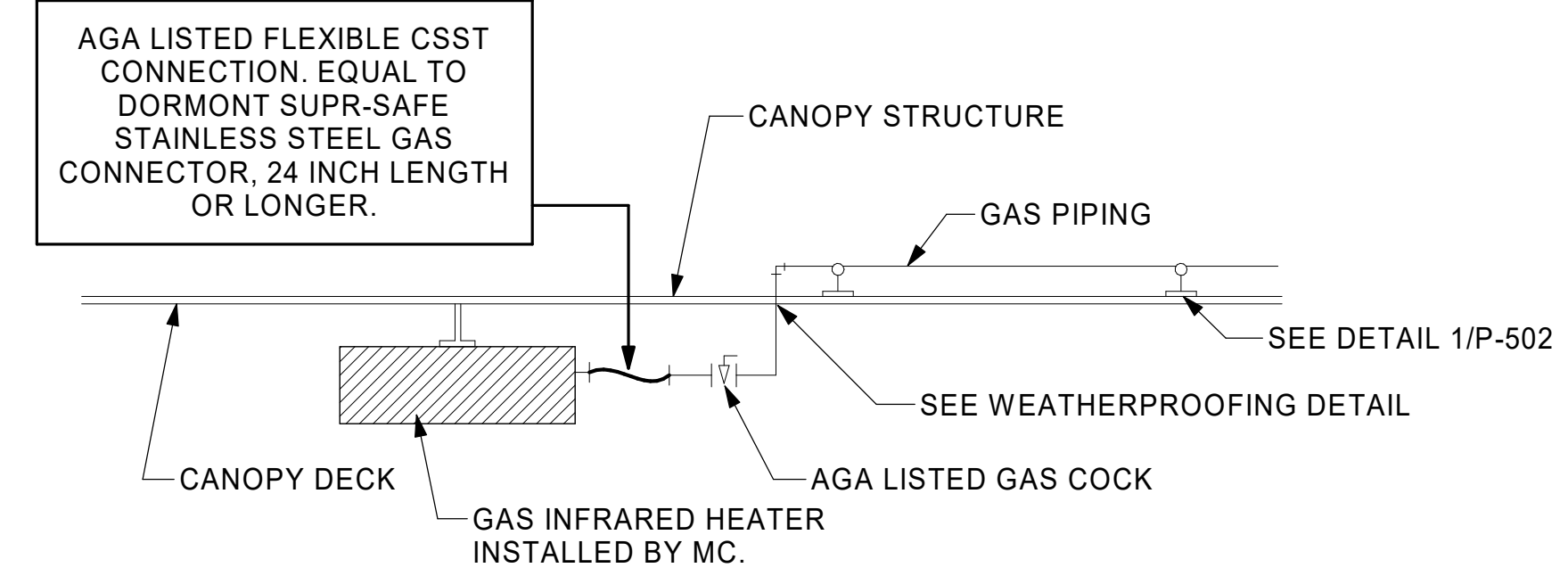


3 GAS PIPING AT RTU
NOT TO SCALE

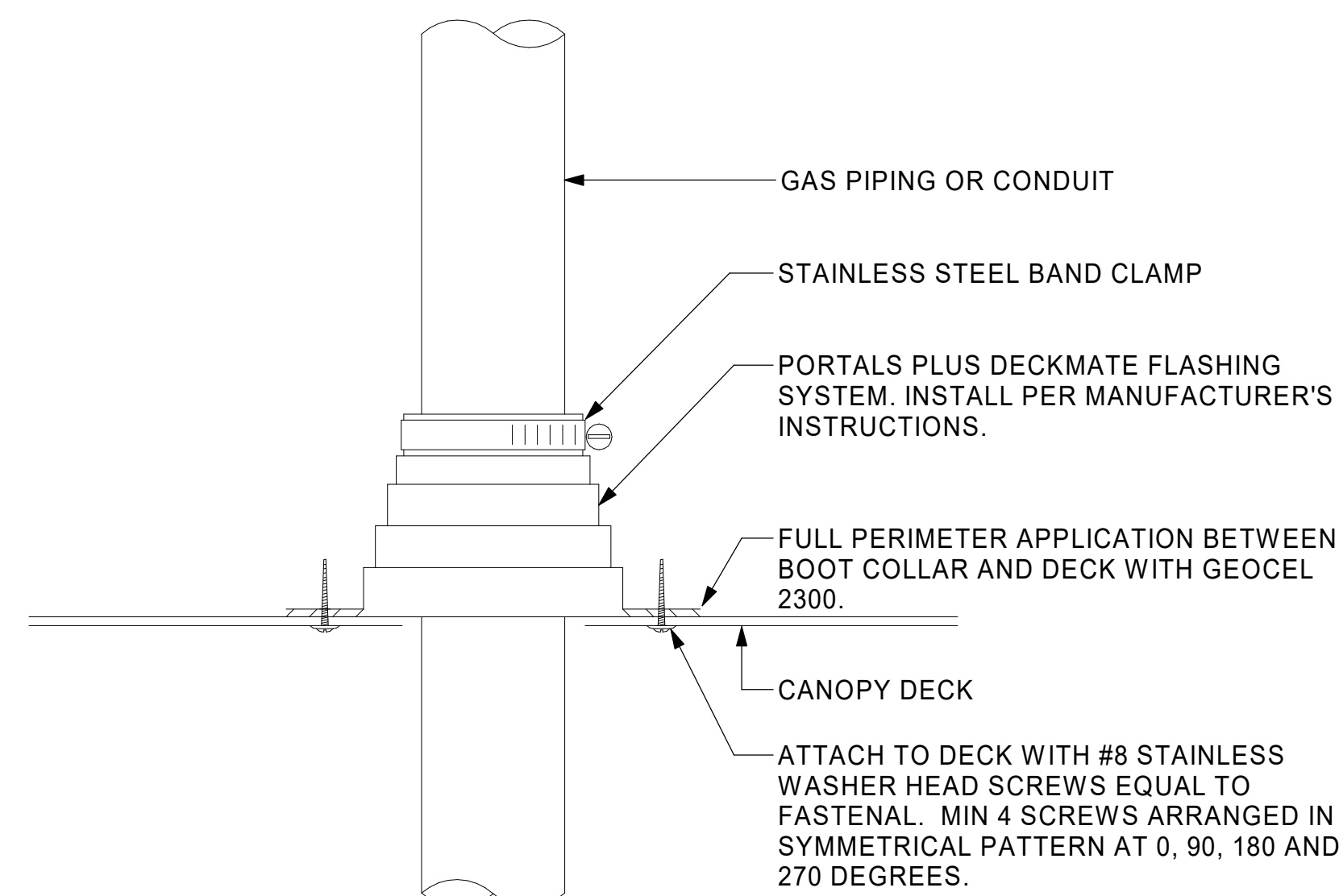
OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.



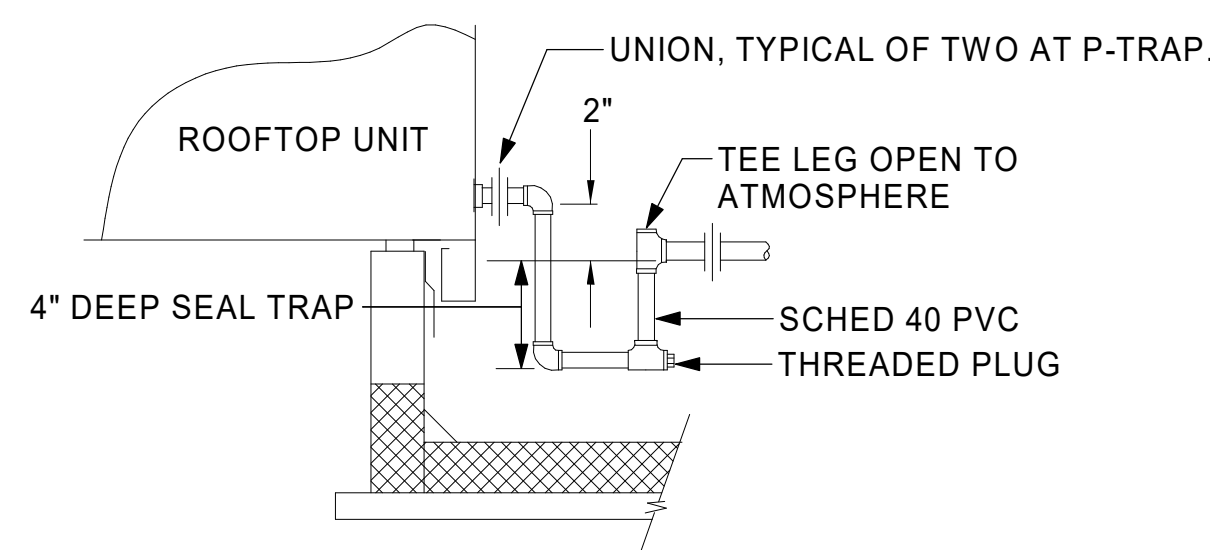
2 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE



1 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

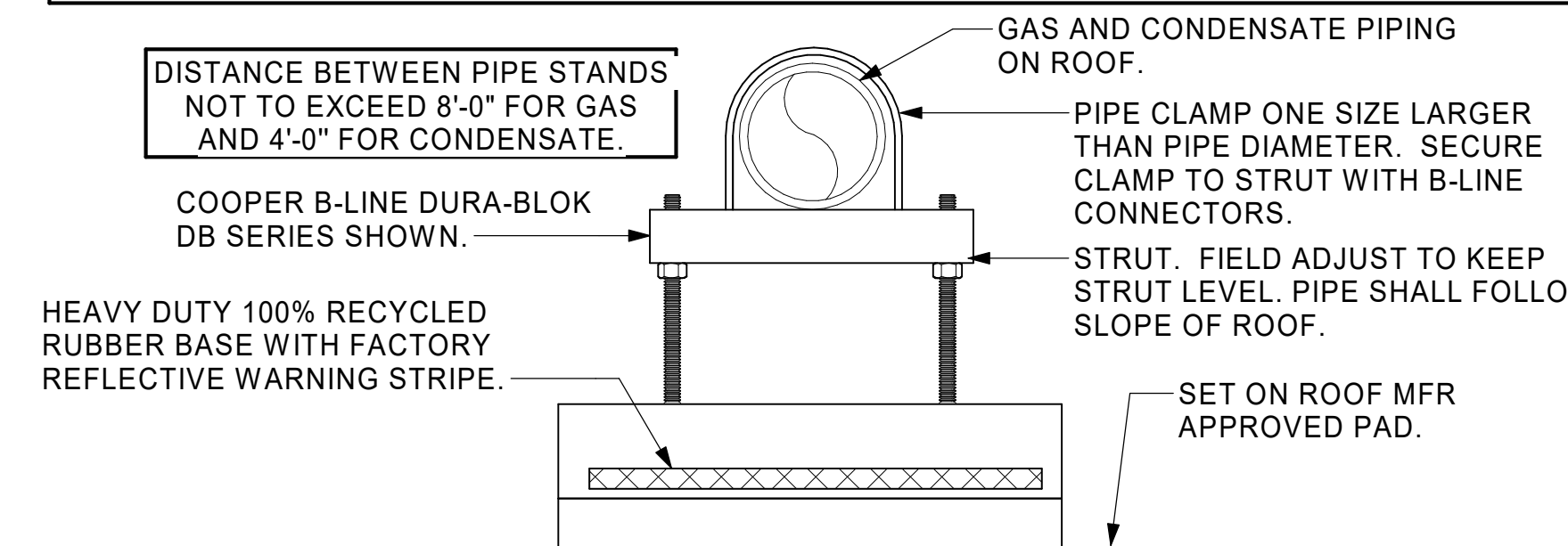


6 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

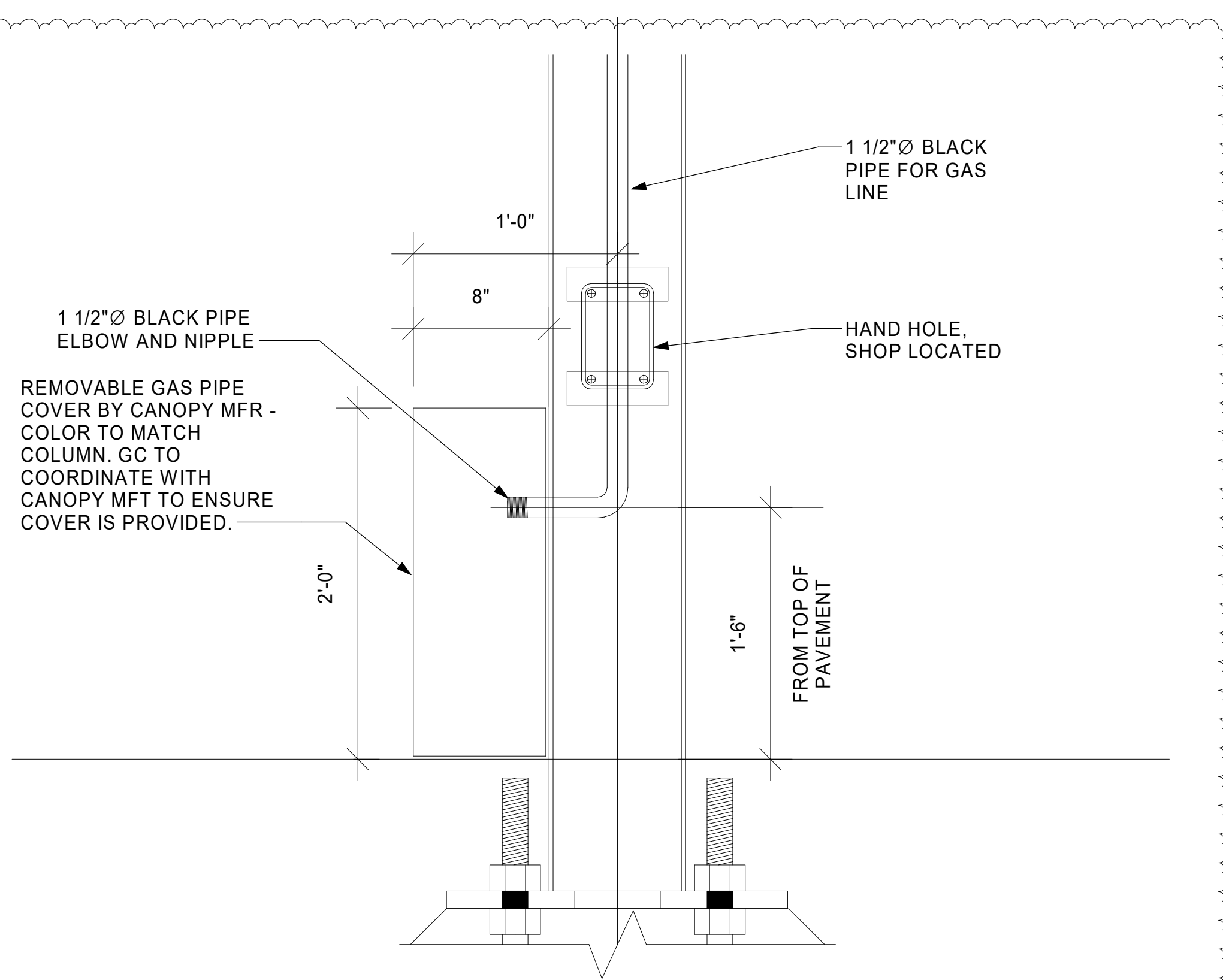


5 CONDENSATE DRAIN PIPING
NOT TO SCALE

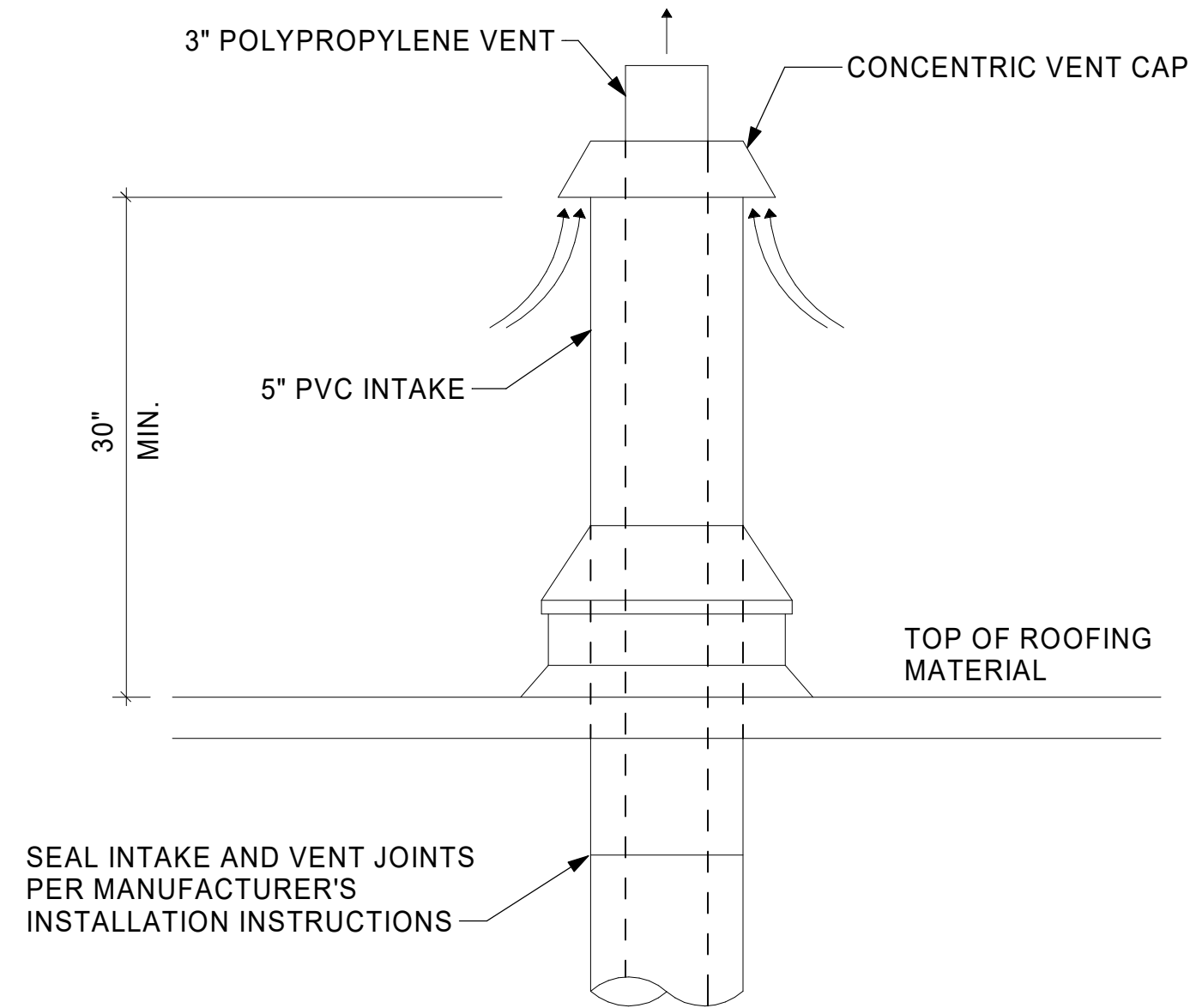
- NOTES:**
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 3. ENSURE GAS 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.



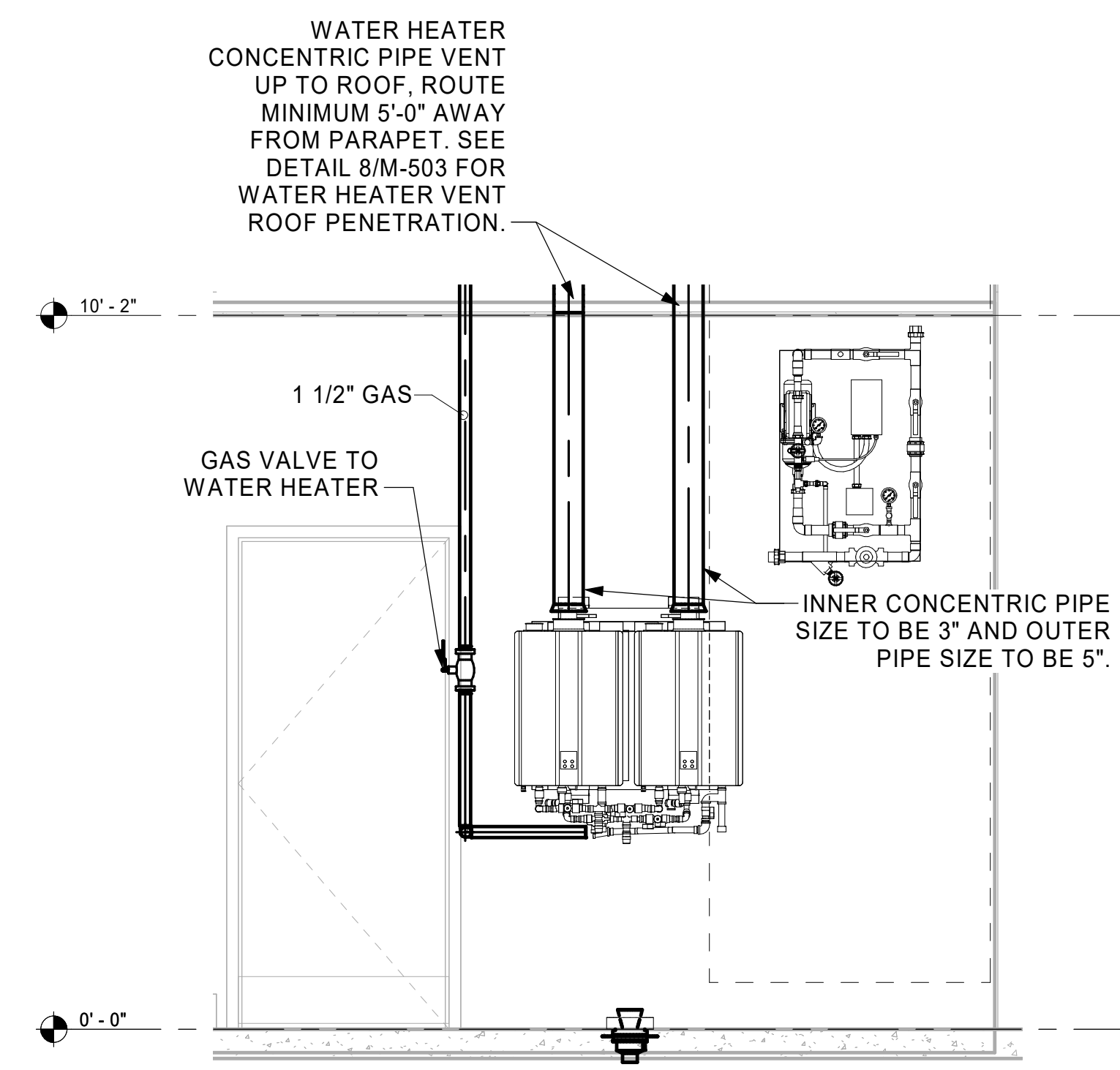
4 PIPING SUPPORT ON ROOF
NOT TO SCALE



9 COLUMN GAS PIPE COVER DETAIL
NOT TO SCALE



8 WATER HEATER VENT ROOF PENETRATION
NOT TO SCALE



7 WATER HEATER GAS PIPING AND VENTING
NOT TO SCALE



Chick-fil-A

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

HFA
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1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ac.com



CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

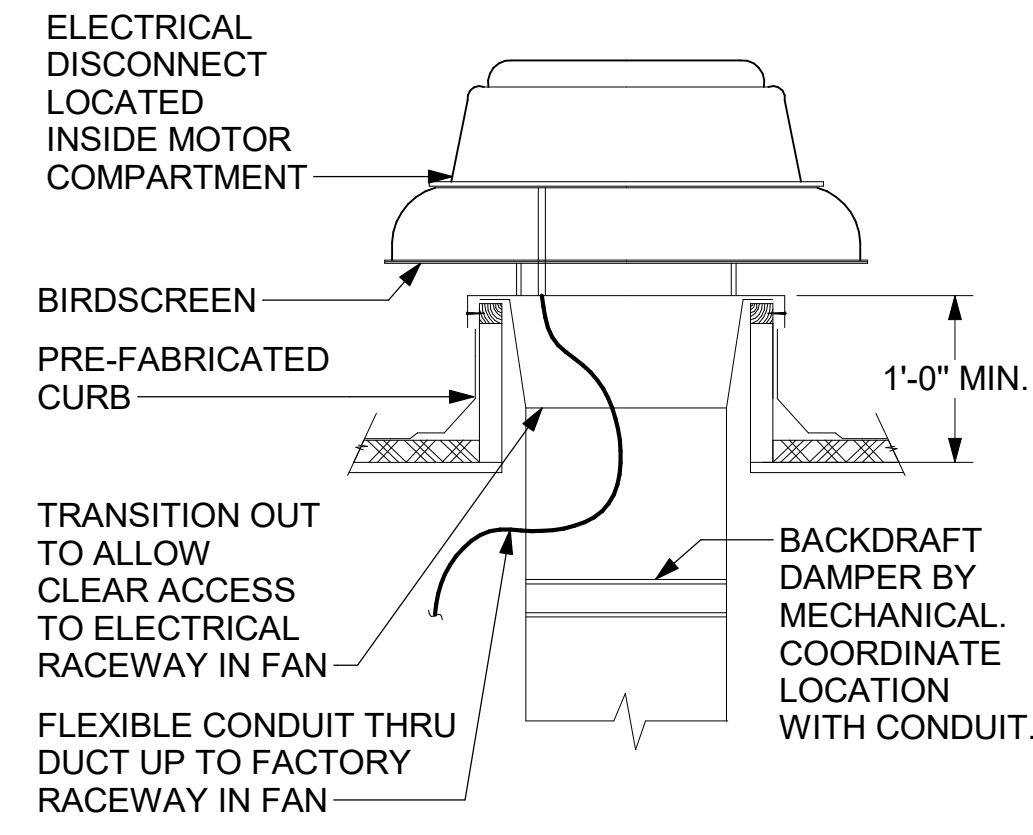
FSR#05792

BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02
PRINTED FOR:
OTP
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 07/16/24 REV 01

CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024
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SHEET
DETAILS

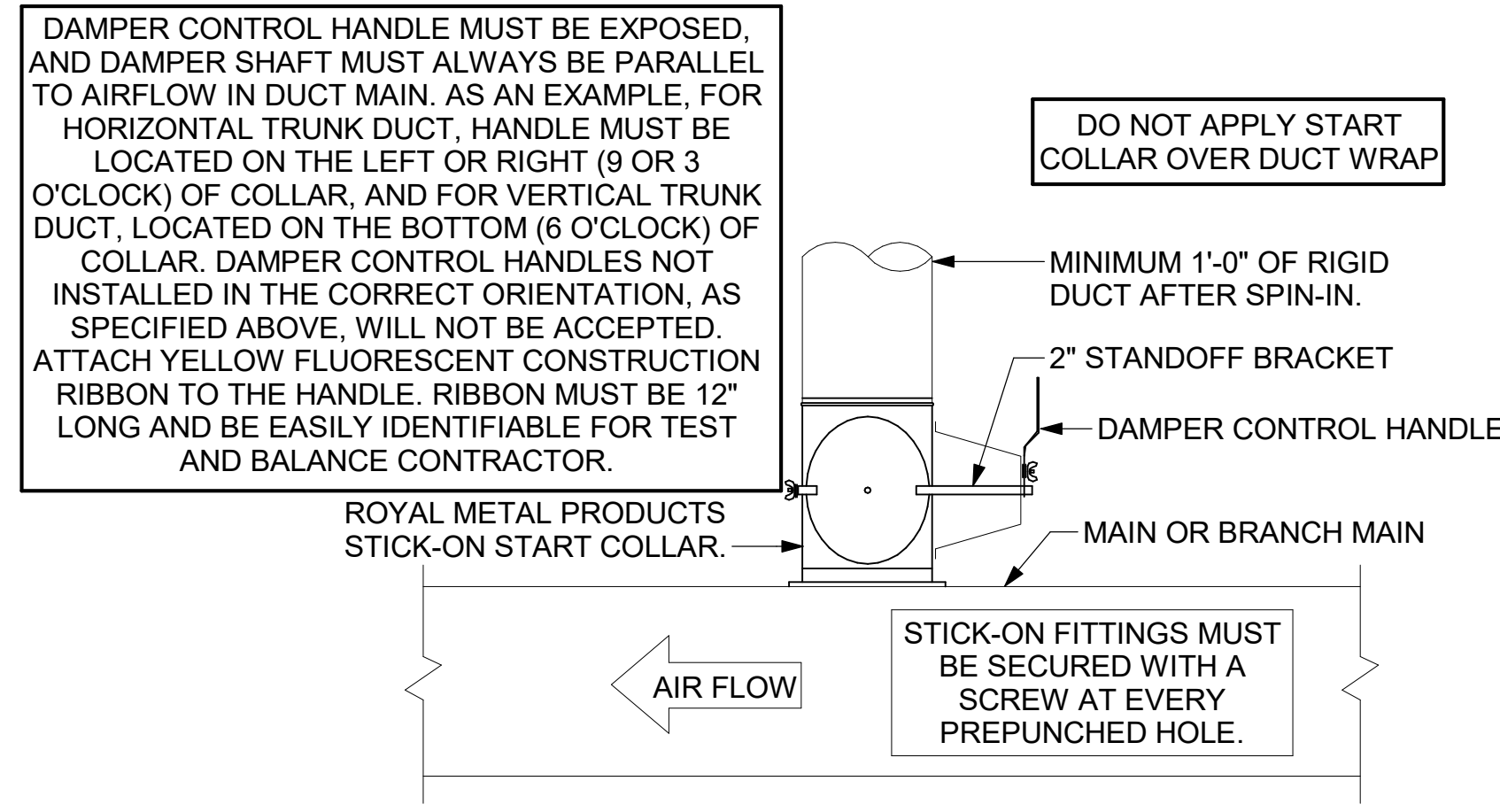
SHEET NUMBER
M-503

SECURE FAN TO CURB WITH SHEET METAL SCREWS (#10 x 1-1/2") 6" O.C. ALL AROUND

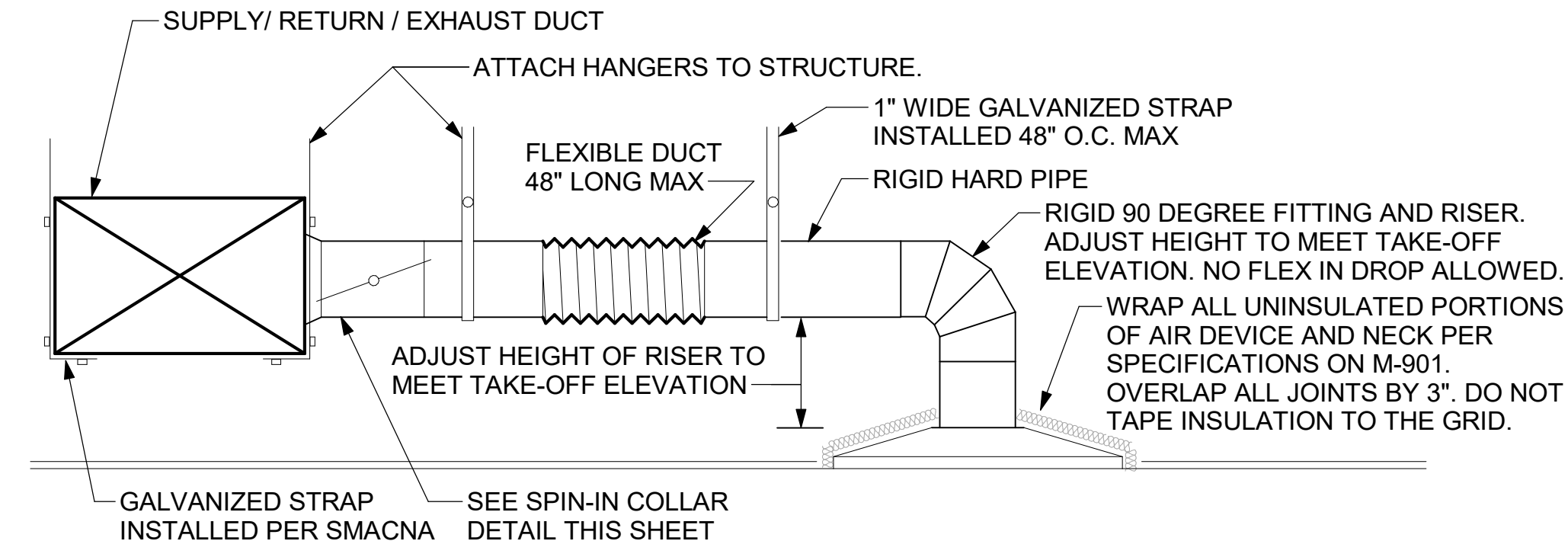


3 RESTROOM EXHAUST FAN
NOT TO SCALE

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.

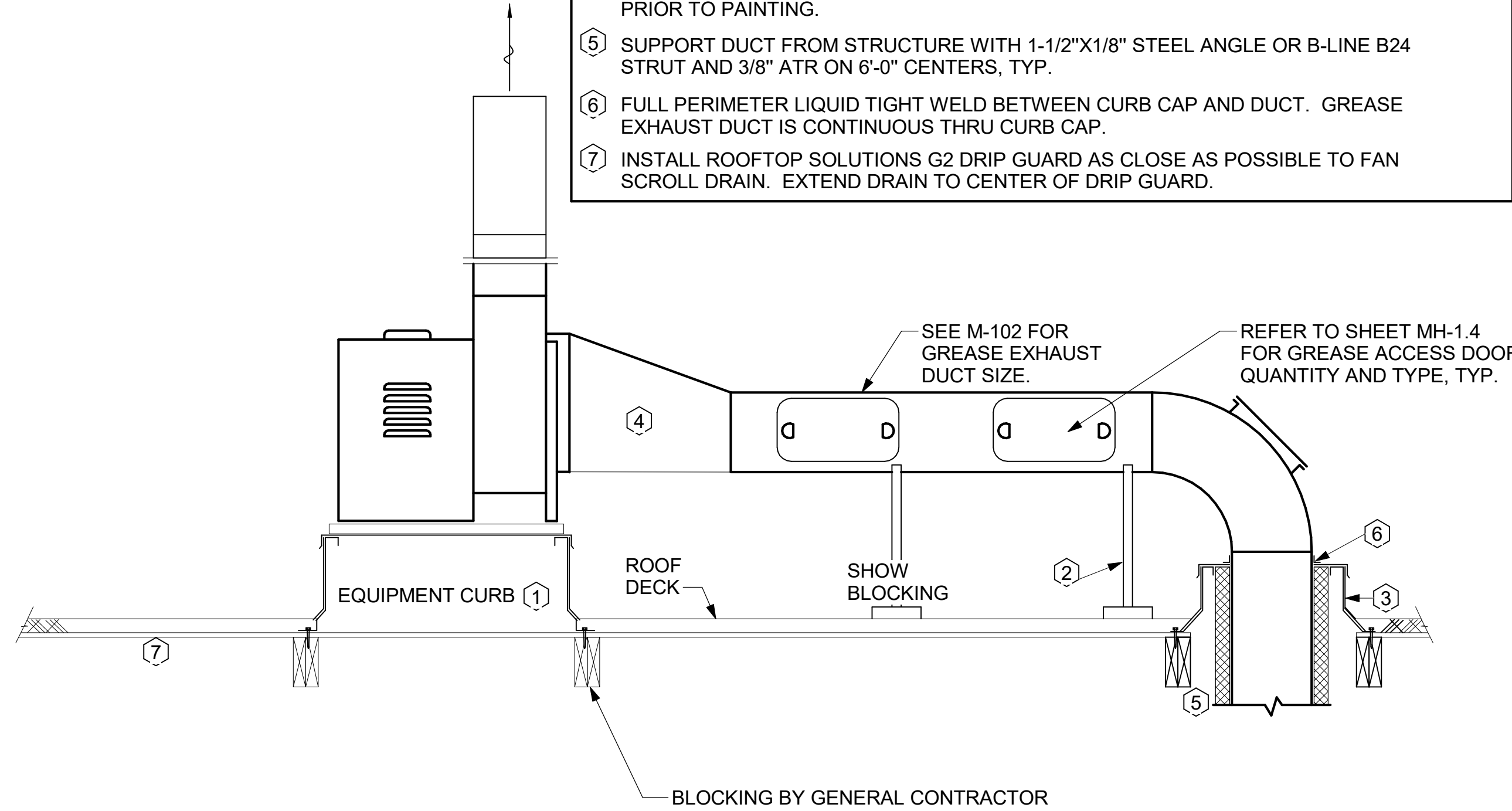


2 START COLLAR - LARGE
NOT TO SCALE

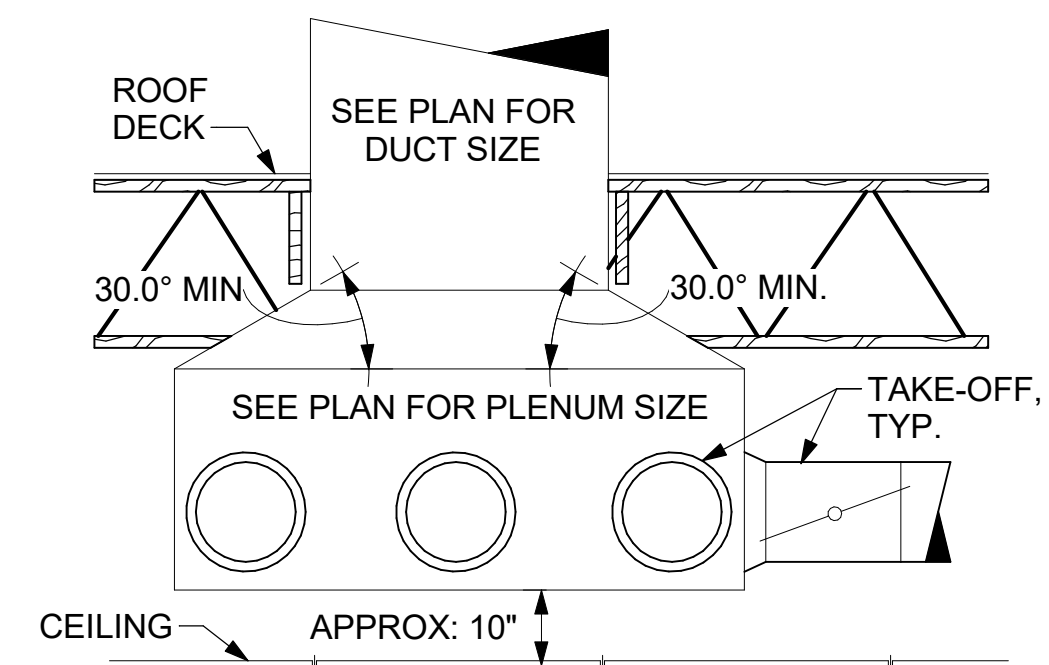


1 SAG/RAG/GRILLE TAKE-OFF - LARGE
NOT TO SCALE

- 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.



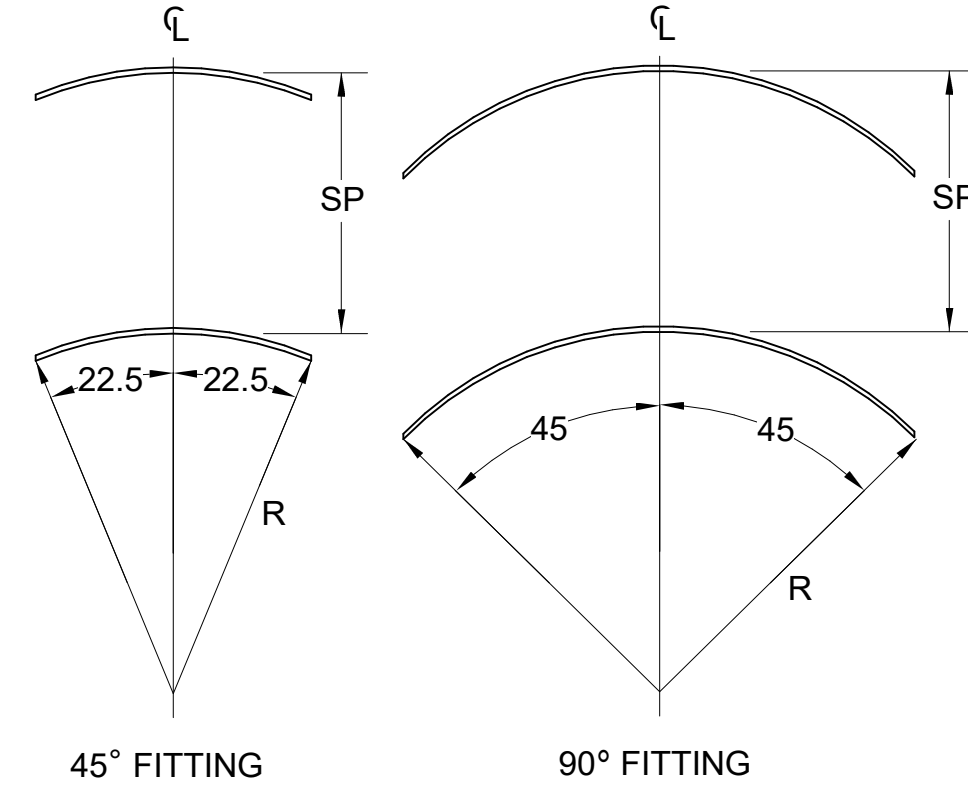
6 KITCHEN HOOD EXHAUST FAN
NOT TO SCALE



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



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CONSULTANT PROJECT # 16-24-60002
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SHEET DETAILS

SHEET NUMBER **M-501**

6/10/2024 11:19:22 AM Autodesk Docs://NE_05792_North Platte (NE) FSU_2024_3_FSR05792_North Platte_NE_MEC.rvt
30-LS-16-24-60002-M-501-DETAILS

VENTILATION SCHEDULE

General			Ventilation													Exhaust					Served by				
Room #	Room Name	Area Az ft2	People			Area						Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area			Toilet		Actual Exhaust CFM	Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Outdoor Airflow CFM Vbz	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM							Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM					
1	Kitchen	1,080	20	22	7.5	165	0.12	130	295	0.8	369	8,125	0.05	1,550	1	756	-	-	-	2,509	ACR1(L) / ACR1(T)	EF-1 / EF-2			
Total Area 1,080			Total Vbz 295						Total Supply Airflow 8,125			1,550 Actual Outdoor Airflow													
			Diversity (D)			0.91			Maximum Zp			0.05													
			Uncorrected Outdoor Air Intake (Vou)			283			System Ventilation Efficiency (Ev)			1.00													
			Required Outdoor Air Intake (CFM)			282																			

VENTILATION SCHEDULE

General			Ventilation													Exhaust					Served by				
Room #	Room Name	Area Az ft2	People			Area						Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area			Toilet		Actual Exhaust CFM	Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Outdoor Airflow CFM Vbz	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM							Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM					
1	Drive-thru	243	15	4	7.5	30	0.18	44	74	0.8	93	1,750	0.05	350	-	-	-	-	-	-	-	-	ACR2(L) / ALT...	-	
Total Area 243			Total Vbz 74						Total Supply Airflow 1,750			350 Actual Outdoor Airflow													
			Diversity (D)			1.00			Maximum Zp			0.05													
			Uncorrected Outdoor Air Intake (Vou)			74			System Ventilation Efficiency (Ev)			1.00													
			Required Outdoor Air Intake (CFM)			73																			

VENTILATION SCHEDULE

General			Ventilation													Exhaust					Served by				
Room #	Room Name	Area Az ft2	People			Area						Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area			Toilet		Actual Exhaust CFM	Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Outdoor Airflow CFM Vbz	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM							Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM					
1	Dining	1,214	70	85	7.5	637.5	0.18	219	856	0.8	1071	3,350	0.319	798	-	-	-	-	-	-	-	-	ACR3(L) / ACR3(T)	-	
2	Serving	190	15	3	7.5	23	0.18	34	57	0.8	71	800	0.09	190	-	-	-	-	-	-	-	-	ACR3(L) / ACR3(T)	-	
3	Men's RR	132	-	-	-	-	-	-	-	0.8	-	100	-	24	-	-	Continuous	50	100	150	-	-	ACR3(L) / ACR3(T)	EF-3	
4	Women's RR	182	-	-	-	-	-	-	-	0.8	-	125	-	30	-	-	Continuous	50	100	150	-	-	ACR3(L) / ACR3(T)	EF-3	
5	Corridor	103	-	-	-	-	0.06	6	6	0.8	8	100	0.08	24	-	-	-	-	-	-	-	-	ACR3(L) / ACR3(T)	-	
6	Play Area	218	-	-	-	-	0.3	65	65	0.8	82	400	0.20	95	-	-	-	-	-	-	-	-	ACR3(L) / ACR3(T)	-	
7	Entry Vestibule	65	-	-	-	-	0.06	4	4	0.8	5	375	0.01	89	-	-	-	-	-	-	-	-	-	ACR3(L) / ACR3(T)	-
Total Area 2,104			Total Vbz 988						Total Supply Airflow 5,250			1,250 Actual Outdoor Airflow													
			Diversity (D)			0.93			Maximum Zp			0.319													
			Uncorrected Outdoor Air Intake (Vou)			966			System Ventilation Efficiency (Ev)			0.80													
			Required Outdoor Air Intake (CFM)			1,207																			

VENTILATION SCHEDULE

General			Ventilation													Exhaust					Served by					
Room #	Room Name	Area Az ft2	People			Area						Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area			Toilet		Actual Exhaust CFM	Supply	Exhaust	
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Outdoor Airflow CFM Vbz	Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM							Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM						
1	Team Member Room	96	50	5	5	25	0.06	6	31	0.8	39	410	0.09	82	-	-	-	-	-	-	-	-	-	ACR4(L) / ACR4(T)	-	
2	Electrical Room	32	-	-	-	-	0.12	4	4	0.8	5	570	0.01	114	-	-	-	-	-	-	-	-	-	ACR4(L) / ACR4(T)	-	
3	Office	57	5	1	5	5	0.06	3	8	0.8	11	235	0.04	47	-	-	-	-	-	-	-	-	-	ACR4(L) / ACR4(T)	-	
4	Mechanical Room	41	-	-	-	-	0.12	5	5	0.8	7	315	0.02	63	-	-	-	-	-	-	-	-	-	ACR4(L) / ACR4(T)	-	
5	Dry Storage	132	-	-	-	-	0.12	16	16	0.8	20	220	0.09	44	-	-	-	-	-	-	-	-	-	-	ACR4(L) / ACR4(T)	-
Total Area 358			Total Vbz 64						Total Supply Airflow 1,750			350 Actual Outdoor Airflow														
			Diversity (D)			1.00			Maximum Zp			0.09														
			Uncorrected Outdoor Air Intake (Vou)			64			System Ventilation Efficiency (Ev)			1.00														
			Required Outdoor Air Intake (CFM)			63																				



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



HFA-AE, L.T.D.

1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ac.com

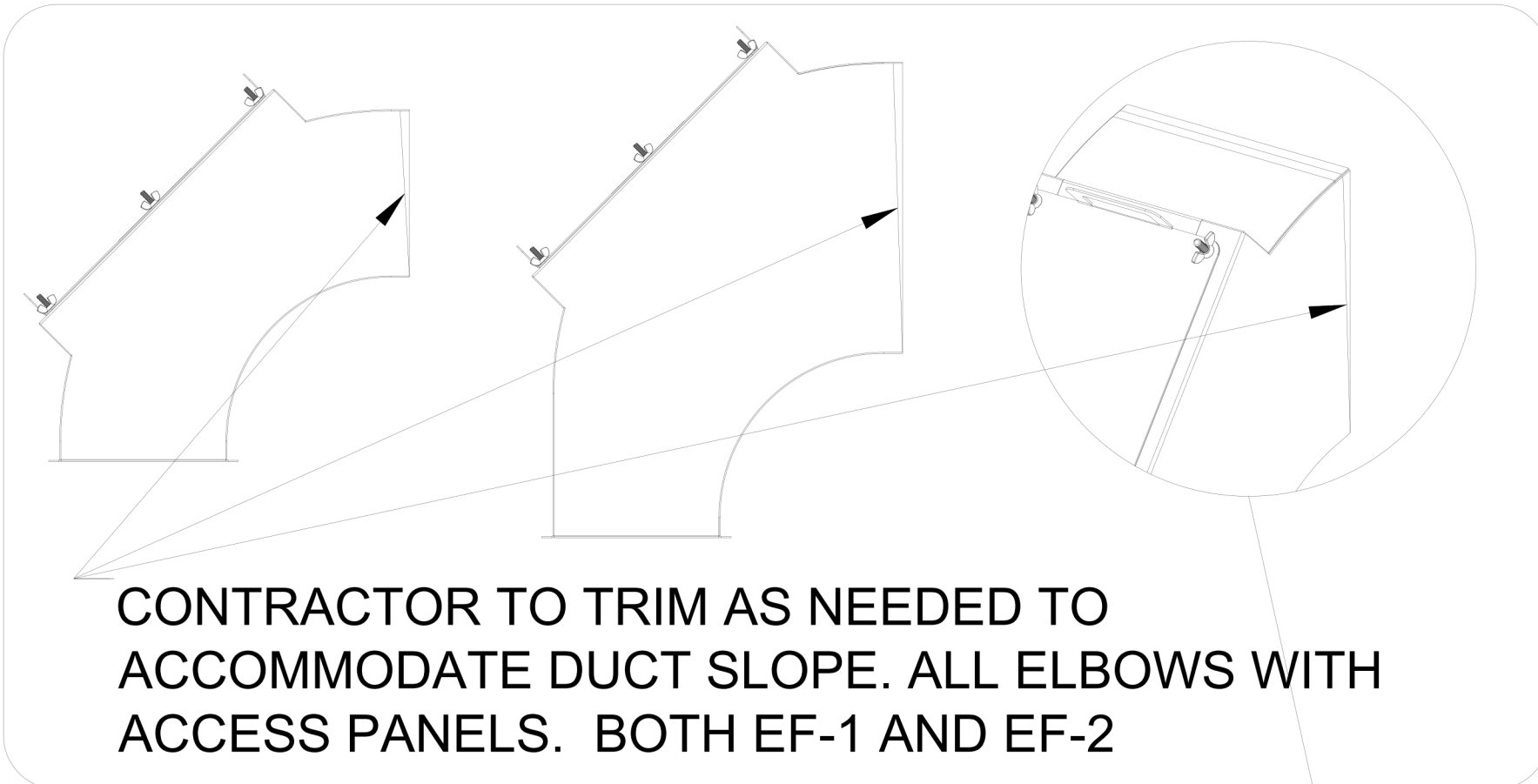


CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

FSR#05792
BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02
PRINTED FOR
OTP
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024
DRAWN BY BRM
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SHEET
BP-VENTILATION SCHEDULES
SHEET NUMBER

M-602

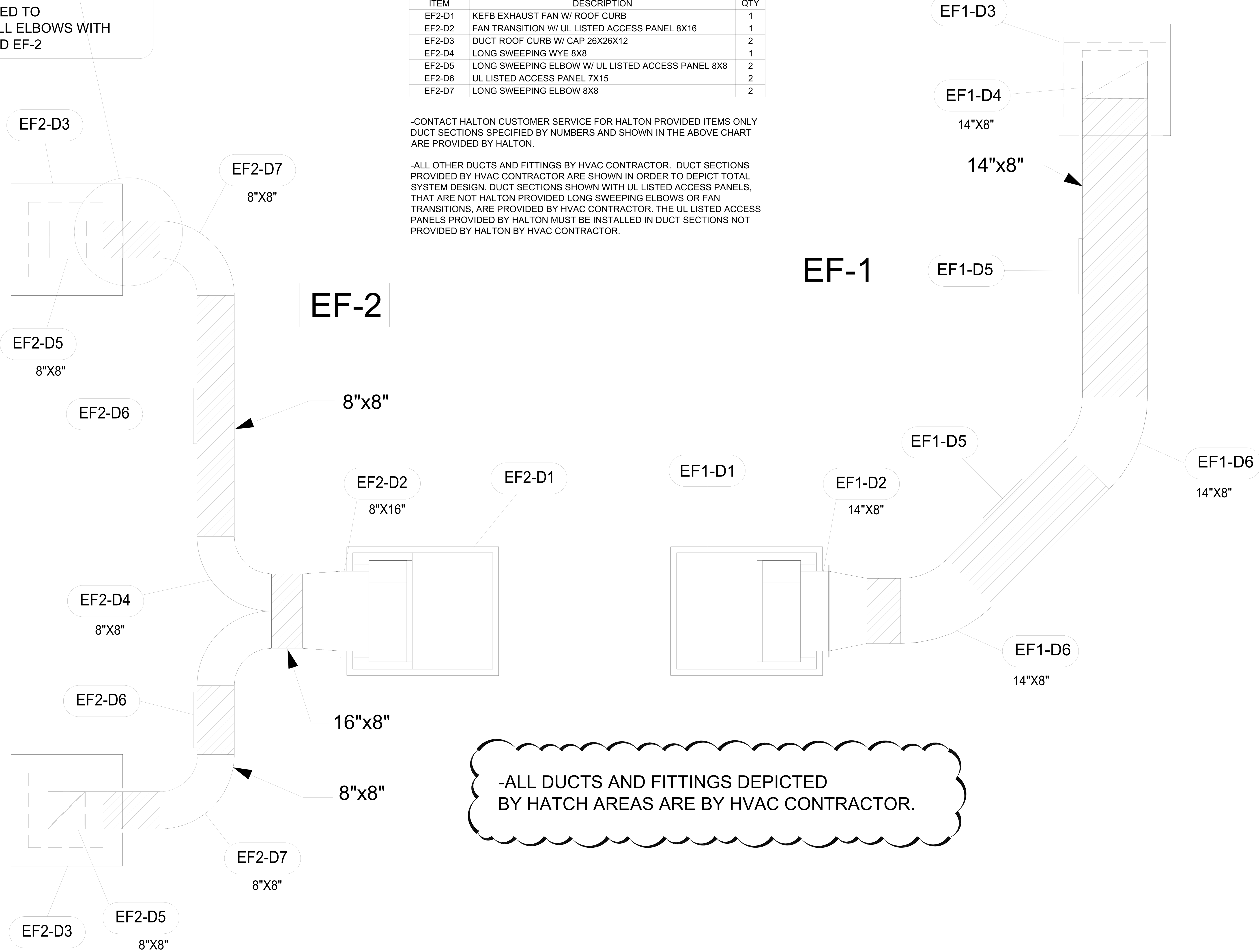


EXHAUST FAN #1 (EF-1)		
ITEM	DESCRIPTION	QTY
EF1-D1	KEFB EXHAUST FAN W/ ROOF CURB	1
EF1-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X8	1
EF1-D3	DUCT ROOF CURB W/ CAP 26X26X12	1
EF1-D4	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1
EF1-D5	UL LISTED ACCESS PANEL 10X15	2
EF1-D6	45° 14X8	2

EXHAUST FAN #2 (EF-2)		
ITEM	DESCRIPTION	QTY
EF2-D1	KEFB EXHAUST FAN W/ ROOF CURB	1
EF2-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 8X16	1
EF2-D3	DUCT ROOF CURB W/ CAP 26X26X12	2
EF2-D4	LONG SWEEPING WYE 8X8	1
EF2-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	2
EF2-D6	UL LISTED ACCESS PANEL 7X15	2
EF2-D7	LONG SWEEPING ELBOW 8X8	2

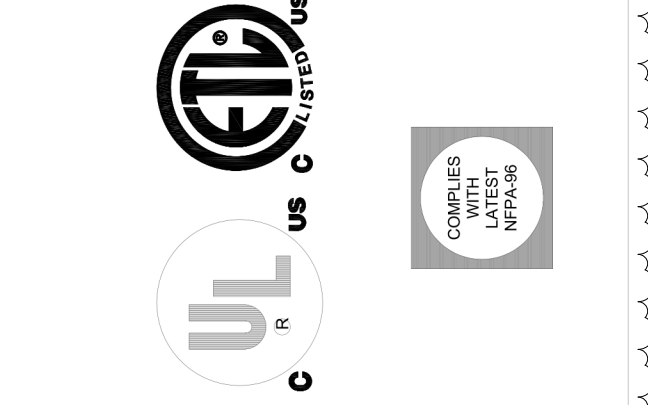
-CONTACT HALTON CUSTOMER SERVICE FOR HALTON PROVIDED ITEMS ONLY DUCT SECTIONS SPECIFIED BY NUMBERS AND SHOWN IN THE ABOVE CHART ARE PROVIDED BY HALTON.

-ALL OTHER DUCTS AND FITTINGS BY HVAC CONTRACTOR. DUCT SECTIONS PROVIDED BY HVAC CONTRACTOR ARE SHOWN IN ORDER TO DEPICT TOTAL SYSTEM DESIGN. DUCT SECTIONS SHOWN WITH UL LISTED ACCESS PANELS, THAT ARE NOT HALTON PROVIDED LONG SWEEPING ELBOWS OR FAN TRANSITIONS, ARE PROVIDED BY HVAC CONTRACTOR. THE UL LISTED ACCESS PANELS PROVIDED BY HALTON MUST BE INSTALLED IN DUCT SECTIONS NOT PROVIDED BY HALTON BY HVAC CONTRACTOR.



-ALL DUCTS AND FITTINGS DEPICTED BY HATCH AREAS ARE BY HVAC CONTRACTOR.

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
 1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
 2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.
 NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF 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: _____

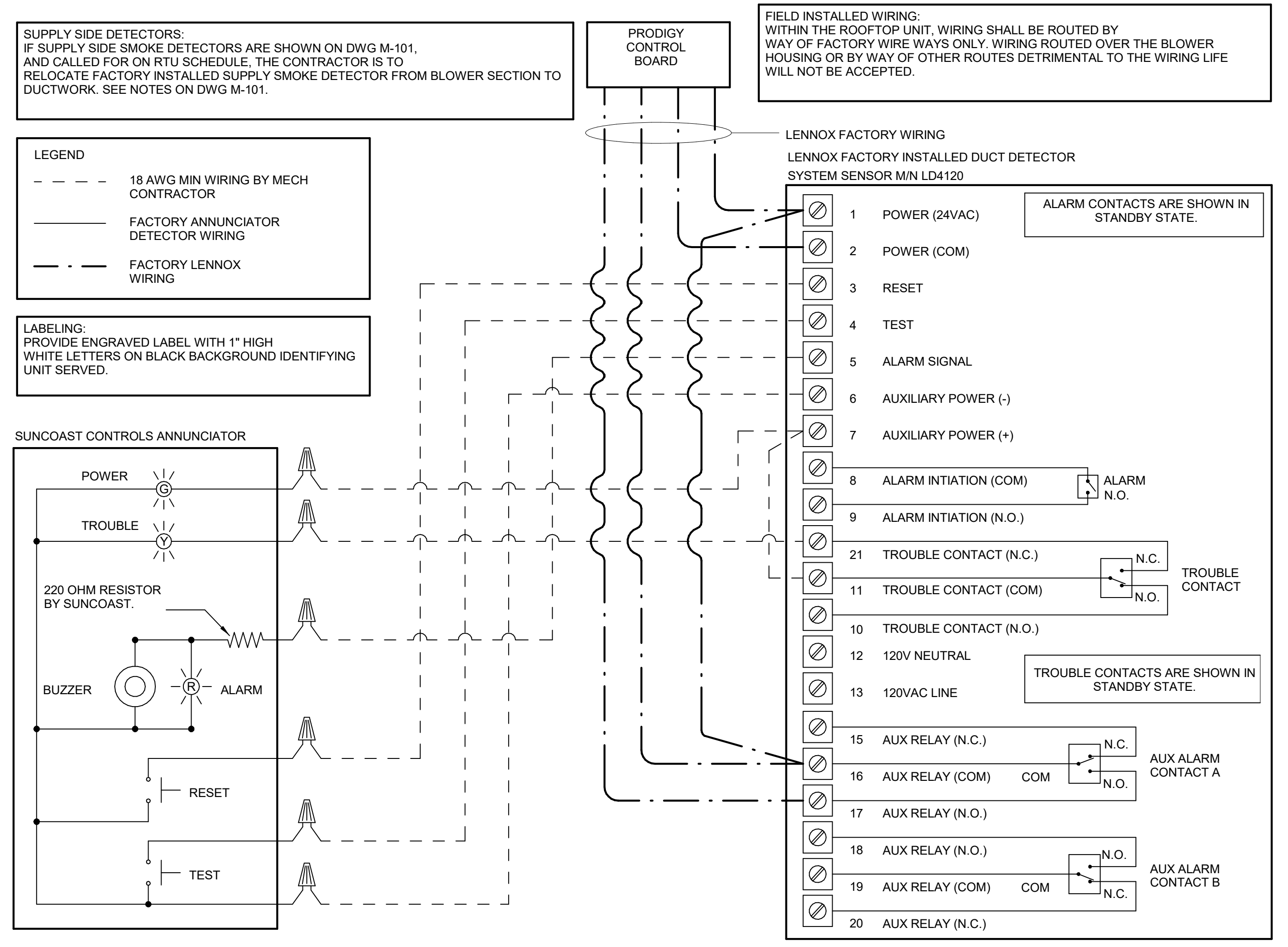


MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:	WEBSITE: www.halton.com
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-800-664-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42764 1-270-237-5800
REV. NO.:	DATE:
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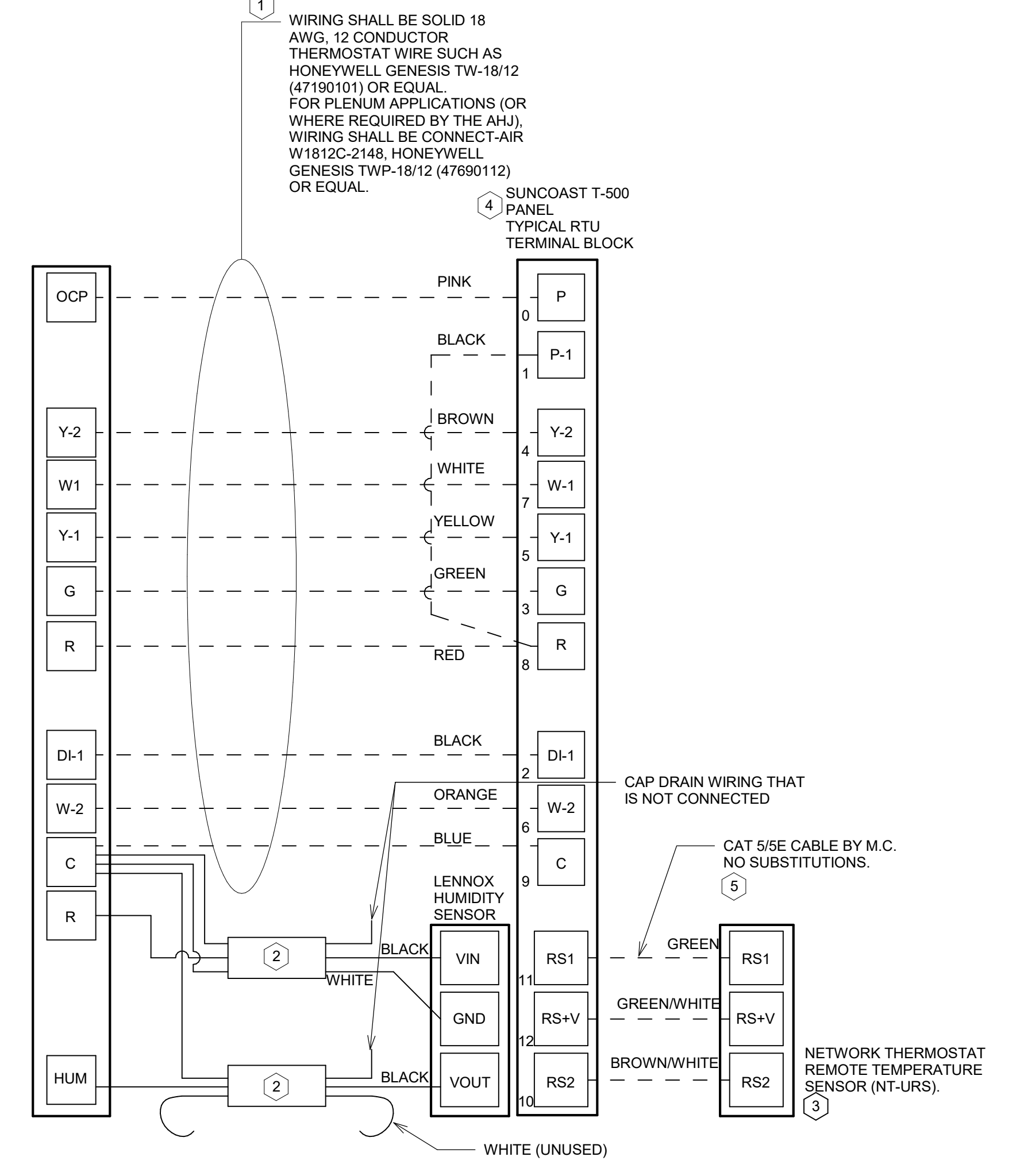
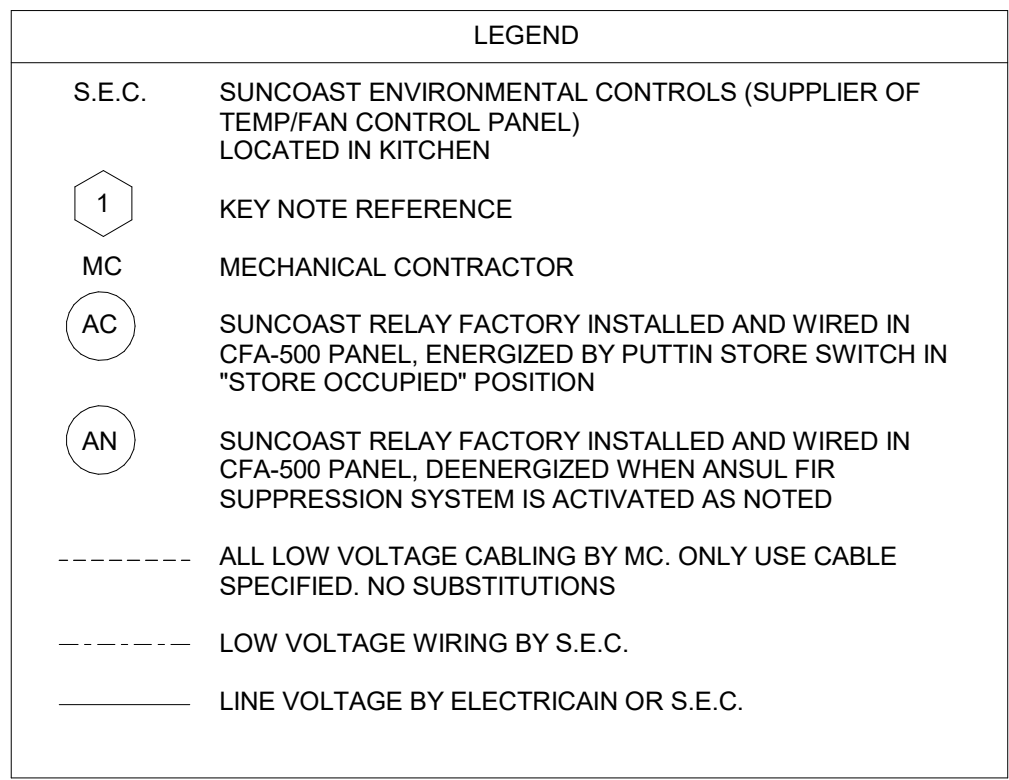
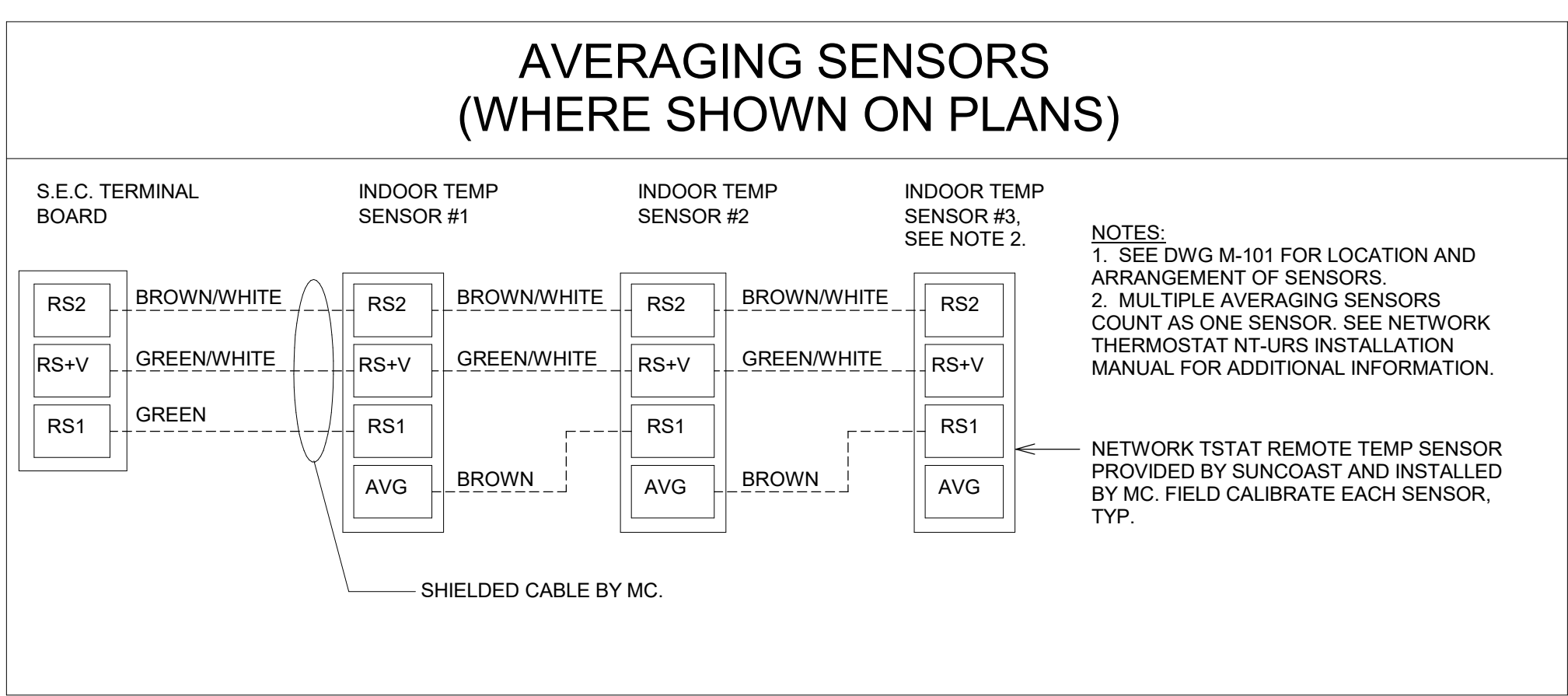
PROJECT: CHICK-FIL-A #5792
 NORTH PLATTE
 LOCATION: NORTH PLATTE, NE
 DRAWN BY: SKK DATE: 08.08.24
 SCALE: NOT TO SCALE
 CONSULTANT:
 DRAWING TITLE: CFA FAN DETAILS
 DRAWING No.: U24-617
 REV. NO.: 0 SHEET NO.: 5 of 5



PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.



1 ROOFTOP UNIT CONTROL WIRING DIAGRAM - LENNOX
1/4" = 1'-0"



2 ROOFTOP UNIT CONTROL WIRING DIAGRAM - LENNOX
1/4" = 1'-0"



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



HFA-AE, L.T.D.
479.273.7780
1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ac.com



CHICK-FIL-A
NEW RESTAURANT
1902 SOUTH JEFFERS STREET
NORTH PLATTE, NE 69101

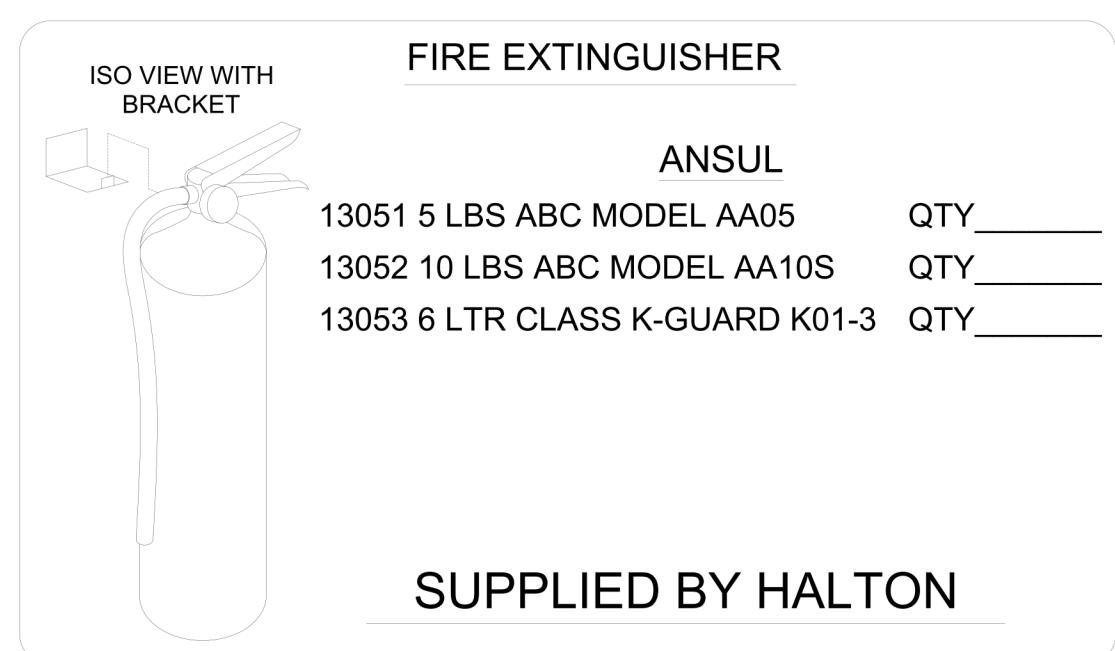
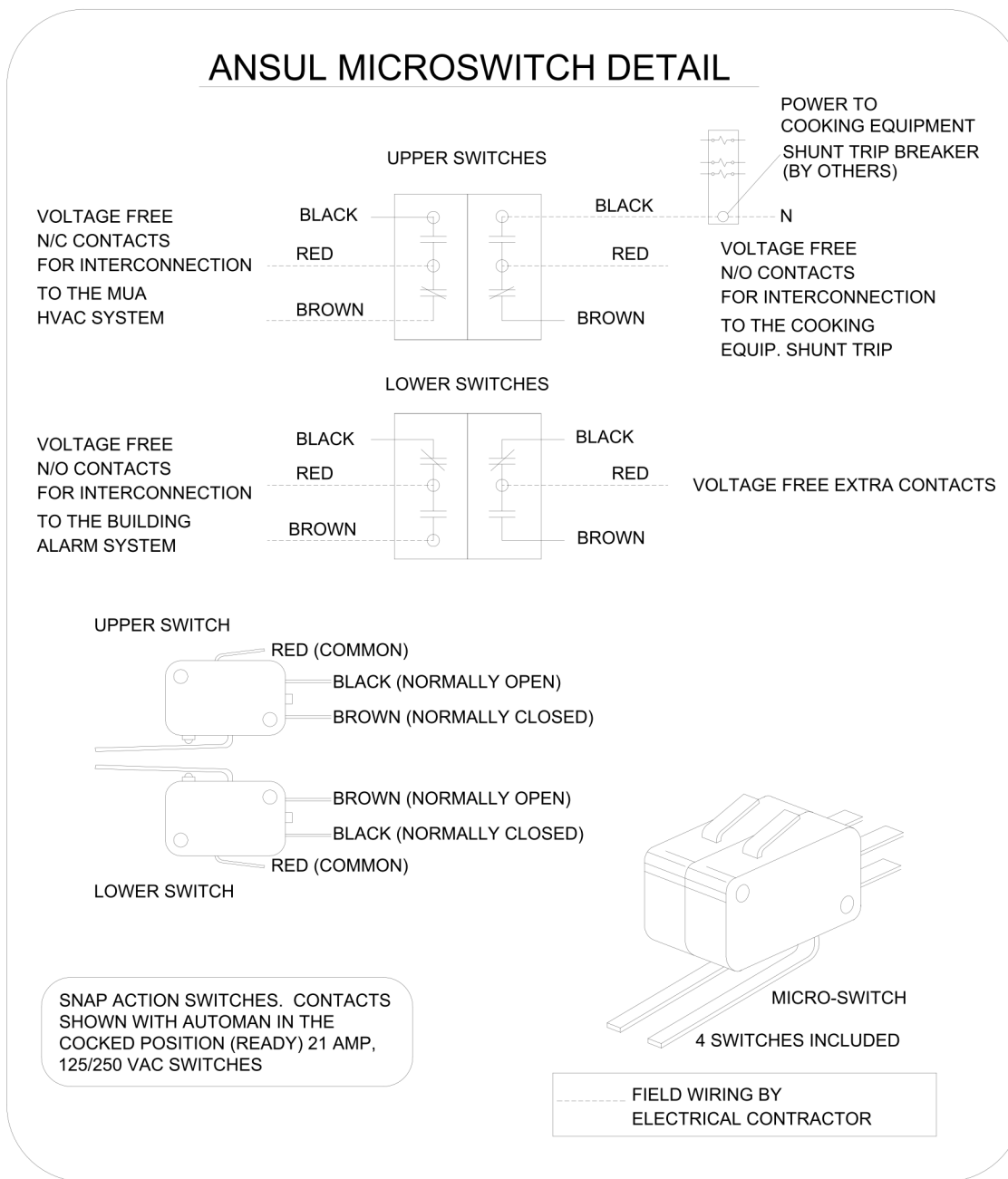
FSR#05792
BUILDING TYPE / SIZE: SSAM LS BP
RELEASE: 24.02

PRINTED FOR
OTP
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 16-24-60002
DATE 06/10/2024
DRAWN BY BRM
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SHEET CONTROL WIRING DIAGRAMS - LENNOX
SHEET NUMBER

M-701L

6/10/2024 11:19:34 AM Autodesk Docs/NE_05792_North Platte (NE)_FSU_2024_3_FSR05792_North Platte_NE_MEC.rvt 30-LS-16-24-60002-M-701L-CONTROL WIRING DIAGRAMS - LENNOX



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-1)
MAXIMUM FLOW POINTS = 33

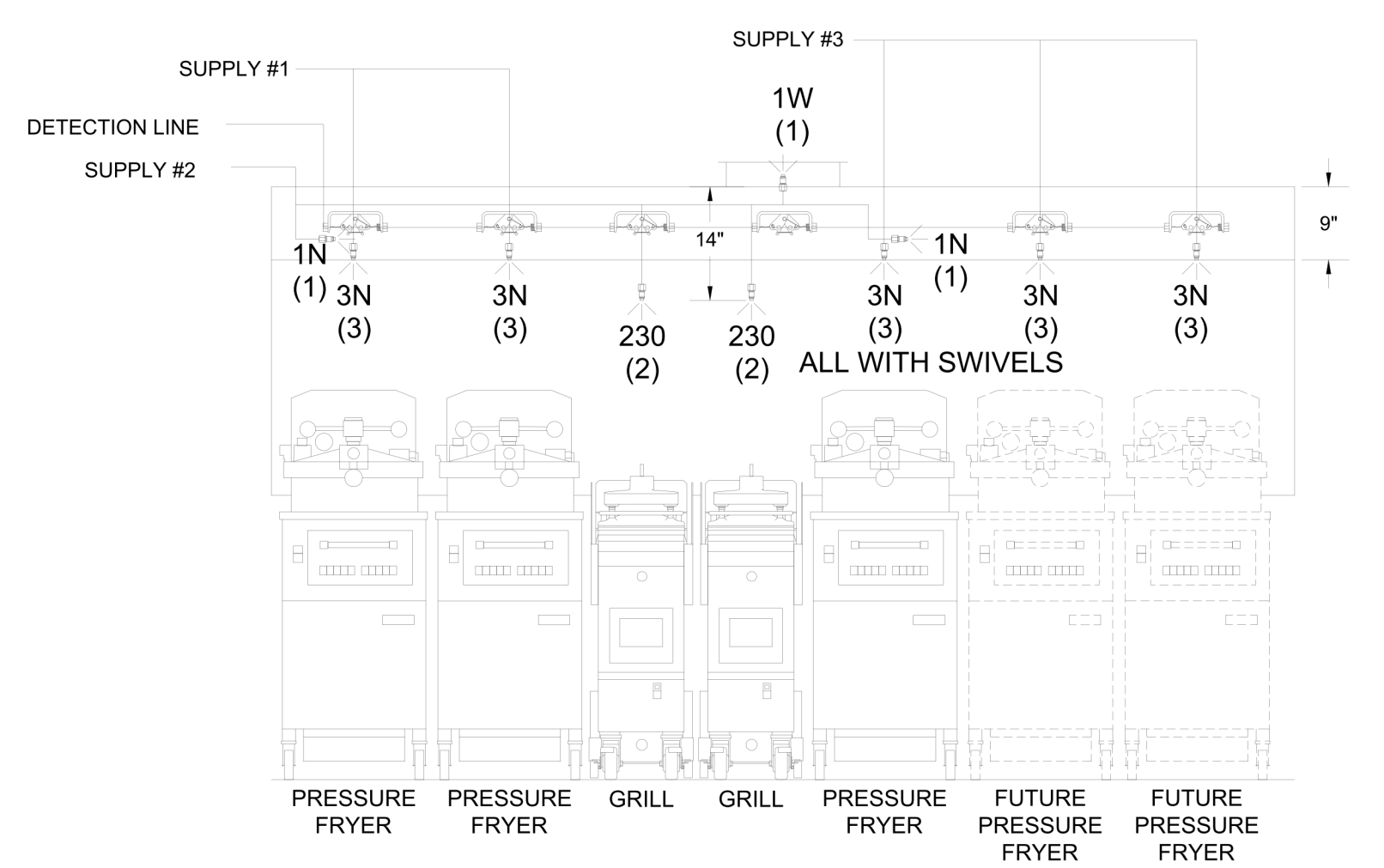
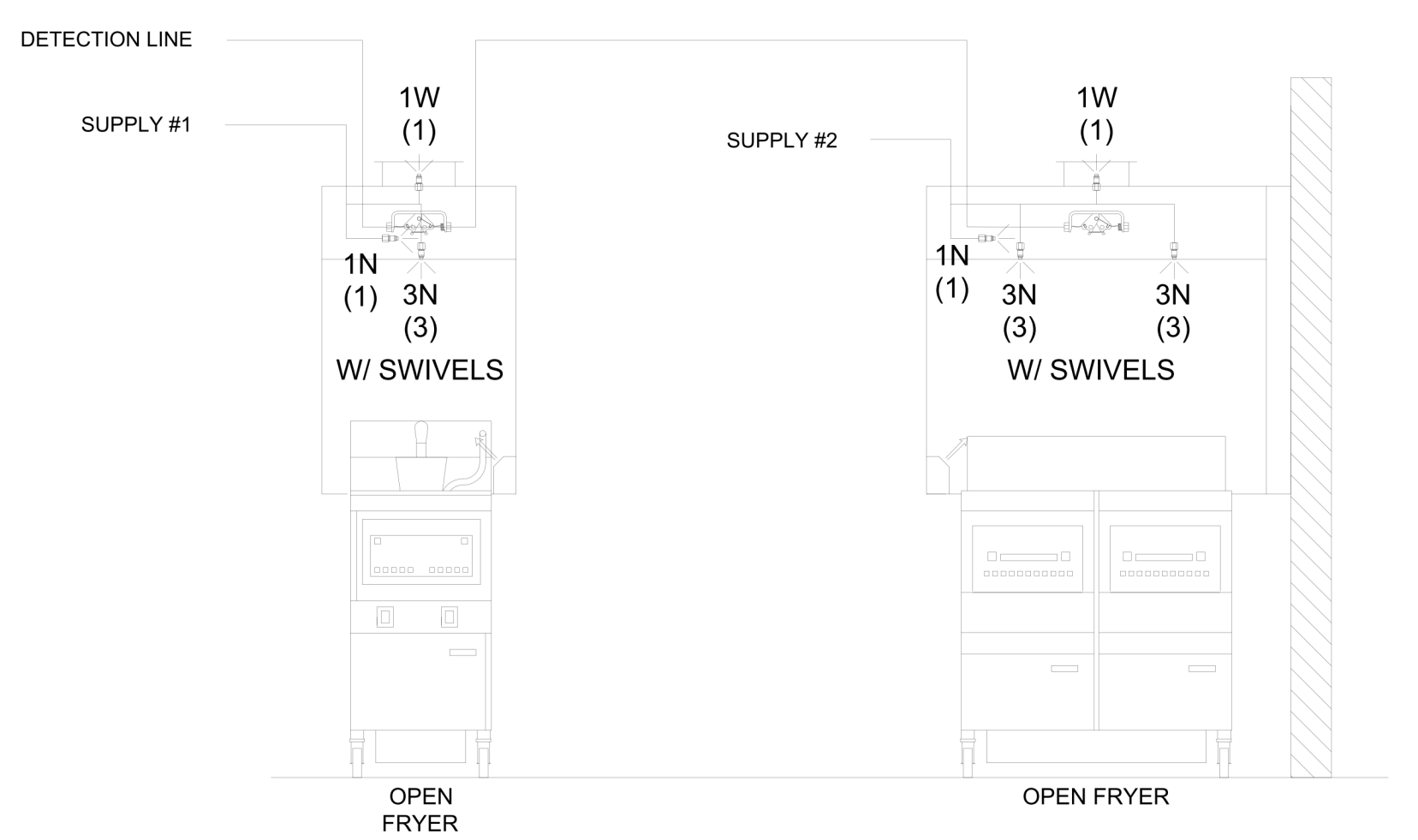
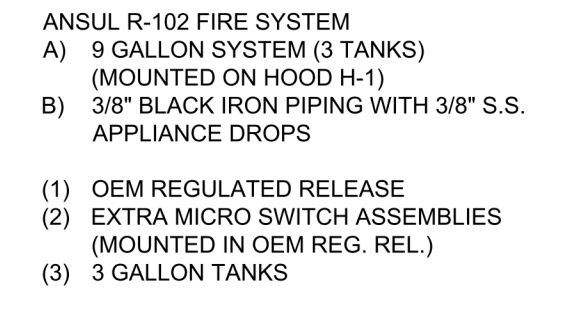
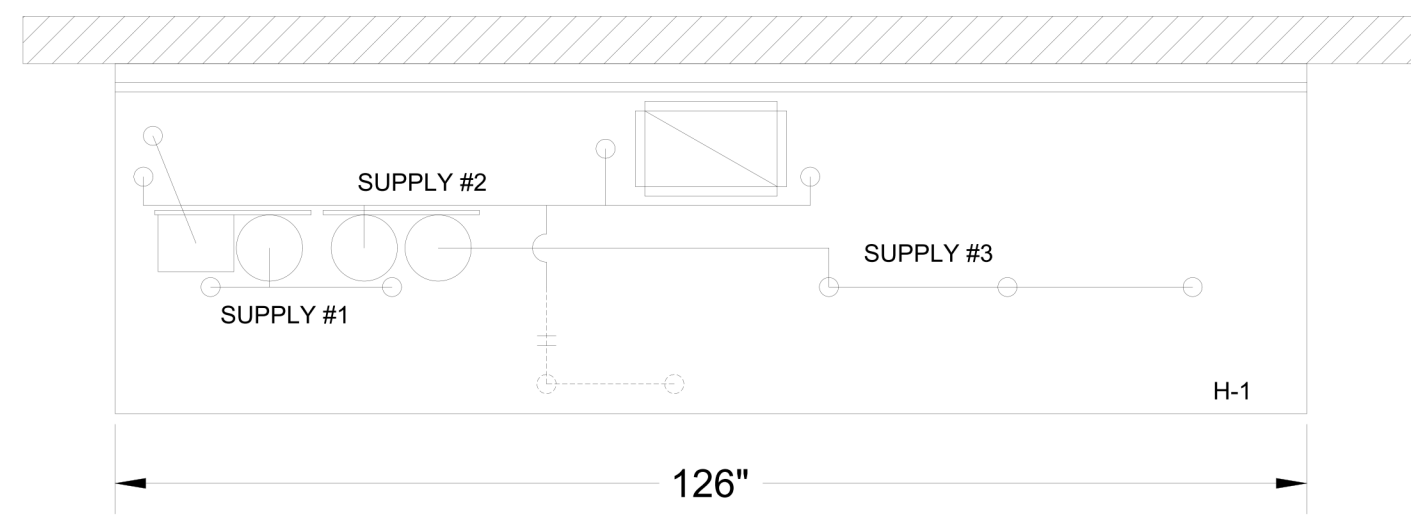
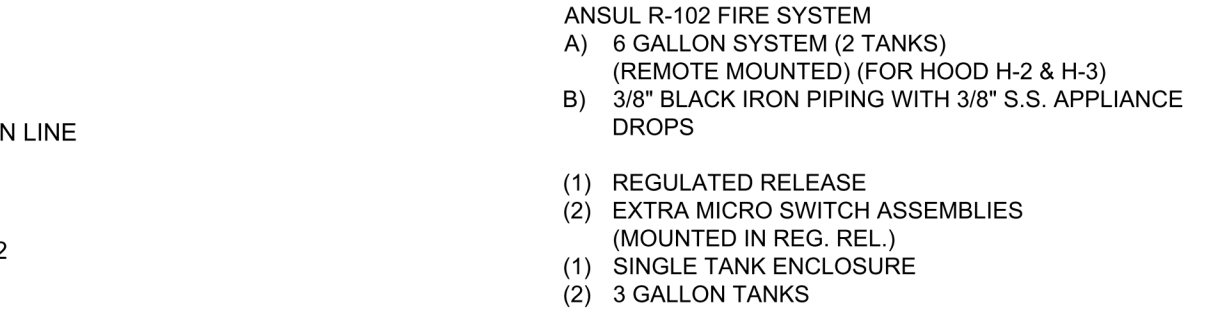
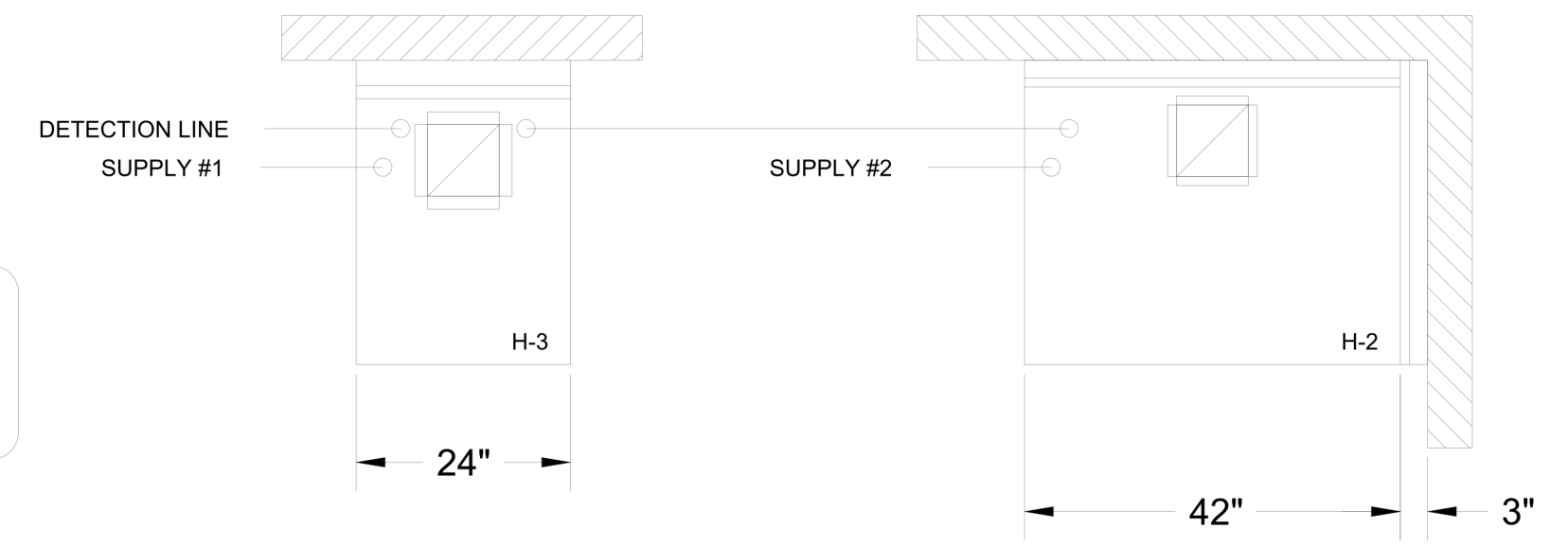
ANSUL R-102 FIRE SYSTEM NOTES
TWO TANK SYSTEM REMOTE MOUNTED
MAXIMUM FLOW POINTS = 22

ITEM	PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	10023	3	DUCT NOZZLES	3
1N	10022	4	PLENUM NOZZLES	4
230	10025	2	APPLIANCE NOZZLES	4
3N	10021	8	APPLIANCE NOZZLES	24
TOTAL FLOW POINTS				35
		QTY	DESCRIPTION	
	10035	8	DETECTORS W/ FUSIBLE LINKS	
	10046	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
	10033	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH	
	10333	5	3 GALLON TANKS	
	10044	1	SINGLE TANK ENCLOSURE	
	10040	2	REMOTE PULL STATION	
	10065	4	DOUBLE TANK NITROGEN CARTRIDGE	
	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

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

REMOTE MOUNTED:
(1) REGULATED RELEASE (WITH ONE TANK)
(1) SINGLE TANK ENCLOSURE (WITH ONE TANK)



ANSUL R-102 FIRE SYSTEM LAYOUT

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

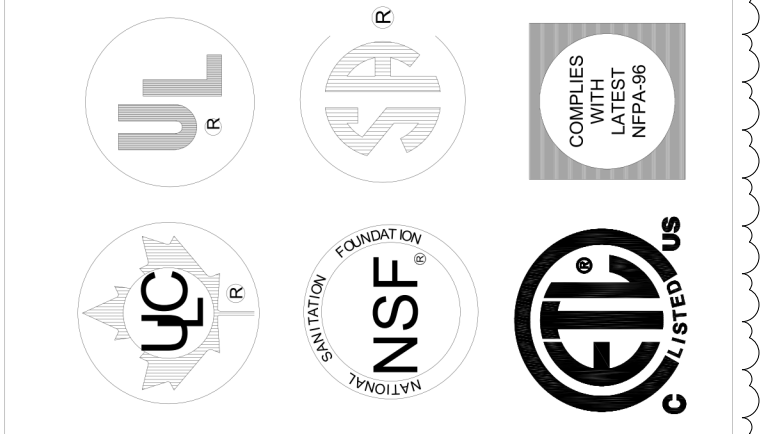
- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER:
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REVISE AND RESUBMIT WITH NO CHANGES WITH CHANGES AS NOTED

APPROVED FOR FABRICATION

DATE



REV.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

<p>WEBSITE: www.halton.com</p> <p>HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600</p>	<p>HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301</p>
--	--

PROJECT: CHICK-FIL-A SSAM #5792
NORTH PLATTE

LOCATION: NORTH PLATTE, NE
DRAWN BY: SKK
SCALE: NOT TO SCALE

DATE: 08.08.24

DRAWING No.: U24-617-03

SHEET NO.: H-1.3