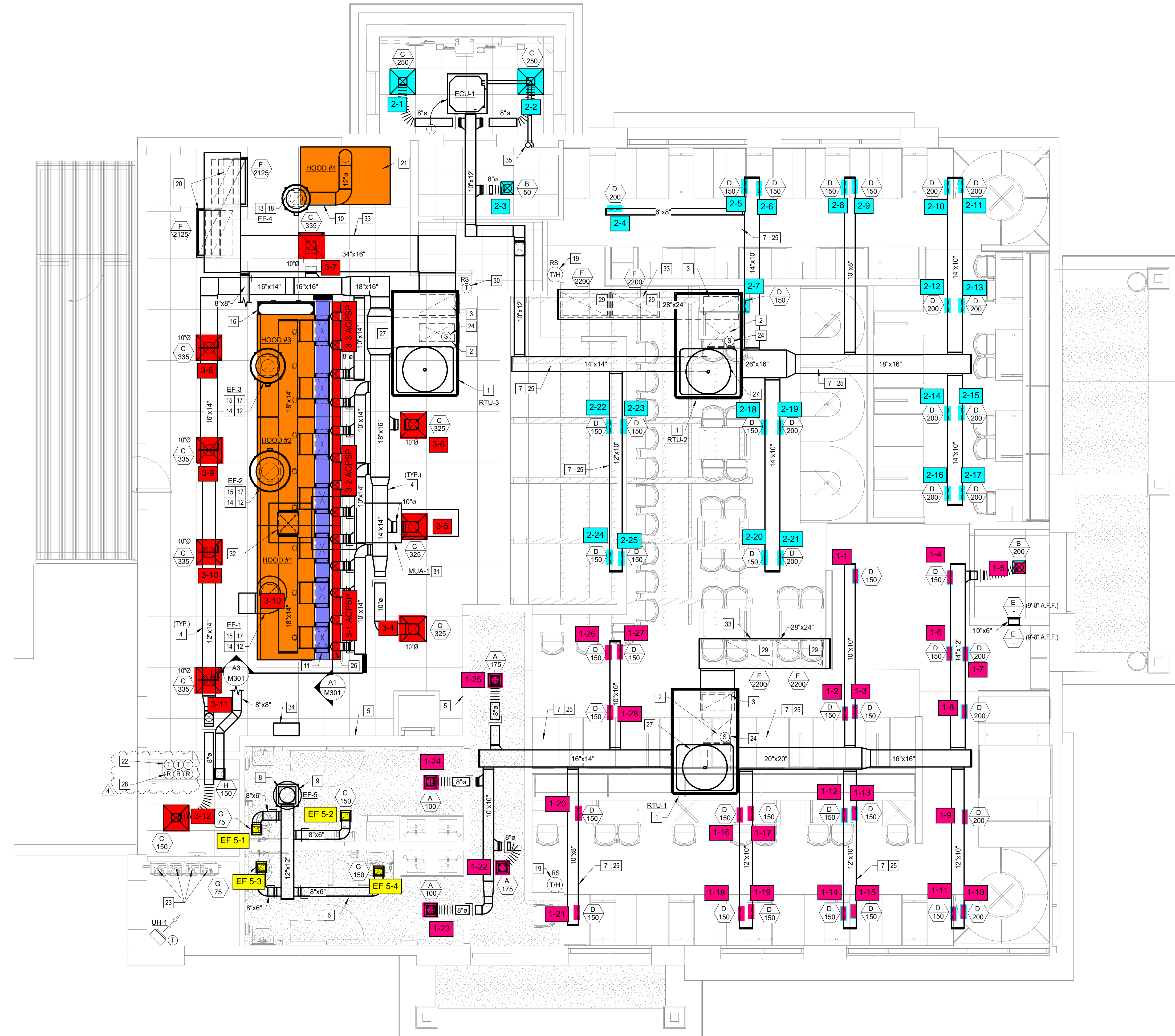


THE FOLLOWING IS THE ORDER OF PRIORITY FOR CONSTRUCTION SPACE:
a. FIRST: DUCTWORK
b. SECOND: FIRE PROTECTION PIPING
c. THIRD: ANY PIPING WITH SLOPE REQUIREMENTS
d. FOURTH: OTHER PIPING
e. FIFTH: CONDUIT

- 1. ALL EXPOSED RECTANGULAR DUCTWORK SHALL BE INTERNALLY LINED. REFER TO SPECIFICATIONS AND DETAILS FOR MORE INFORMATION.
- 2. ROOFTOP UNIT ON FULL PERIMETER ROOF CURB. REFER TO SHEET MP200 FOR ADDITIONAL INFORMATION.
- 3. SUPPLY AIR DUCT FROM UNIT ON ROOF. TRANSITION TO DUCT SIZE AS INDICATED WITH-IN THE ROOF CURB.
- 4. RETURN AIR DUCT FROM UNIT ON ROOF. TRANSITION TO DUCT SIZE AS INDICATED WITH-IN THE ROOF CURB.
- 5. DUCTWORK LOCATED ABOVE FINISHED CEILING. COORDINATE W/ STRUCTURE.
- 6. MAINTAIN NEC CLEARANCE TO ELECTRICAL GEAR, TYPICAL.
- 7. PROVIDE MANUAL BALANCING DAMPER, TYPICAL.
- 8. EXPOSED RECTANGULAR DUCTWORK TO BE INTERNALLY LINED.
- 9. RESTROOM EXHAUST FAN ON ROOF. REFER TO SHEET MP200 FOR ADDITIONAL INFORMATION.
- 10. RESTROOM EXHAUST DUCT UP TO FAN ON ROOF. COORDINATE W/ STRUCTURE.
- 11. SLOPE DISHWASHER EXHAUST DOWN @ 1/4" PER FT TO HOOD.
- 12. MAKE-UP AIR CONNECTIONS TO SUPPLY AIR PLENUM IN FRONT OF HOOD. REFER TO HOOD DRAWINGS, TYPICAL.
- 13. KITCHEN HOOD EXHAUST FAN ON ROOF. REFER TO SHEET MP200 AND HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 14. DISHWASHER EXHAUST FAN ON ROOF. REFER TO SHEET MP200 AND HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 15. KITCHEN EXHAUST HOOD DUCT DOWN TO HOOD COLLAR. WELD DUCT ELBOW TO HOOD COLLAR. TYPICAL. REFER TO HOOD DRAWINGS.
- 16. HOOD CONTROL CABINET, REF HOOD DRAWINGS.
- 17. KITCHEN EXHAUST HOOD FURNISHED BY OWNER. INSTALLED BY MECHANICAL CONTRACTOR TYPICAL. OF-4. REFER TO SHEET MH101 THRU MH106.
- 18. DISHWASHER EXHAUST DUCT UP TO FAN ON ROOF. DUCTWORK SHALL BE STAINLESS STEEL SEALED LIQUID TIGHT. OFFSET TO HOOD COLLAR.
- 19. PROVIDE REMOTE TEMPERATURE & HUMIDITY SENSOR ON WALL @ 72" AFF. INTERLOCK W/ THERMOSTAT IN OFFICE.
- 20. PERFORATED GRILLE PER DETAIL B4 ON SHEET M201. TYPICAL FOR THIS DEVICE.
- 21. DISHWASHER HOOD, FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO SHEETS MH101 THRU MH106.
- 22. T-STATS FOR REMOTE SENSORS. REFER TO DETAIL ON SHEET M401 AND ELEVATION ON E102.
- 23. REFER TO PLUMBING DRAWINGS FOR COMBUSTION VENTING OF WATER HEATERS.
- 24. DUCT MOUNTED SMOKE DETECTOR FOR UNIT SHUT DOWN. DETECTOR SHALL ACTIVATE A VISIBLE & AUDIBLE SUPERVISORY SIGNAL @ A CONSTANTLY ATTENDED LOCATION. TYPICAL.
- 25. DUCTWORK TO RUN UNDERNEATH ROOF STRUCTURE AS HIGH AS POSSIBLE.
- 26. SUPPLY AIR CONNECTIONS WITH CONTROL DAMPER TO SUPPLY AIR PLENUM IN FRONT OF HOOD. REFER TO HOOD DRAWINGS, TYPICAL.
- 27. PROVIDE SPLITTER DAMPER W/ TURNING VANES, TYPICAL.
- 28. ROOFTOP UNIT SMOKE DETECTOR RESETS. REFER TO ELEVATION ON E102.
- 29. RETURN AIR GRILLE IN THE UNDERSIDE OF DUCT.
- 30. PROVIDE REMOTE TEMPERATURE SENSOR ON WALL AT 54" A.F.F. INTERLOCK WITH THERMOSTAT IN OFFICE.
- 31. MAKE-UP AIR UNIT ON ROOF. INTERLOCK WITH HOOD CONTROLS. REFER TO HOOD DRAWINGS. SHEETS MH101 THRU MH106 AND SHEET MP200 FOR ADDITIONAL INFORMATION.
- 32. MAKE-UP AIR DUCT UP TO UNIT ON ROOF.
- 33. RETURN AIR DUCT SHALL BE INTERNALLY LINED, TYPICAL.
- 34. HOOD UTILITY FIRE SUPPRESSION CABINET MOUNTED AS HIGH AS POSSIBLE WITHIN SPACE. REFER TO HOOD DRAWINGS.
- 35. PROVIDE AND INSTALL REFRIGERANT LINE SET AND INSULATION TO ASSOCIATED CONDENSING UNIT OUTSIDE. AVOID RUNNING PIPING DIRECTLY OVER ELECTRICAL EQUIPMENT. SEAL WALL PENETRATION WEATHER TIGHT.

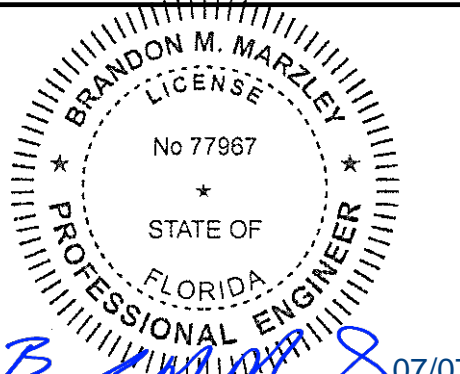
SHEET KEYNOTES



M101 MECHANICAL FLOOR PLAN 1/4" = 1'-0"



520 South Main Street, Suite 2511 Akron, OH 44311 330.572.2100 Fax 330.572.2101



BRANDON M. MARZLEY LICENSE No. 77967

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE #2044
16323 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

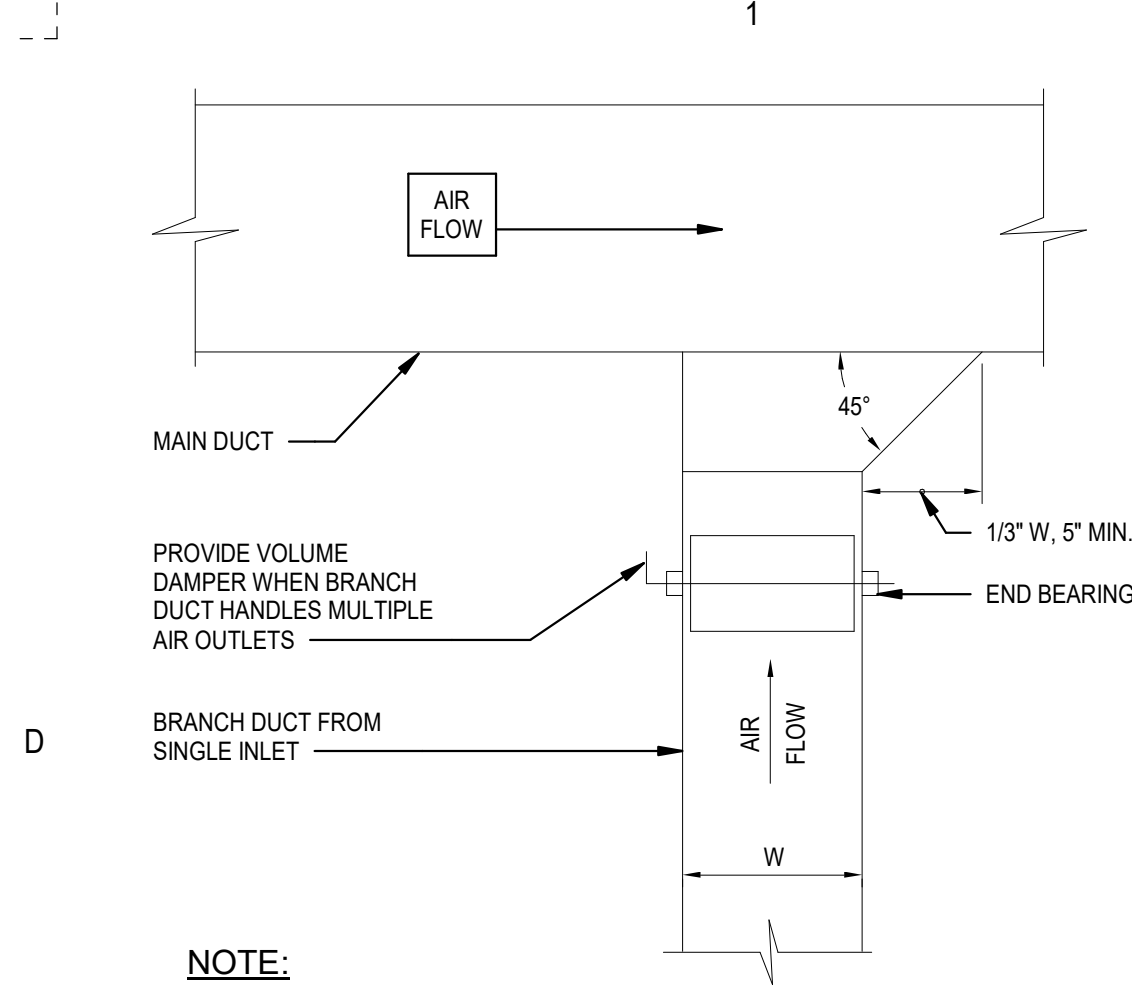
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PRINCIPAL IN CHARGE: [Name] PH
PROJECT ARCHITECT: [Name] PH
DRAWN BY: [Name] DJ

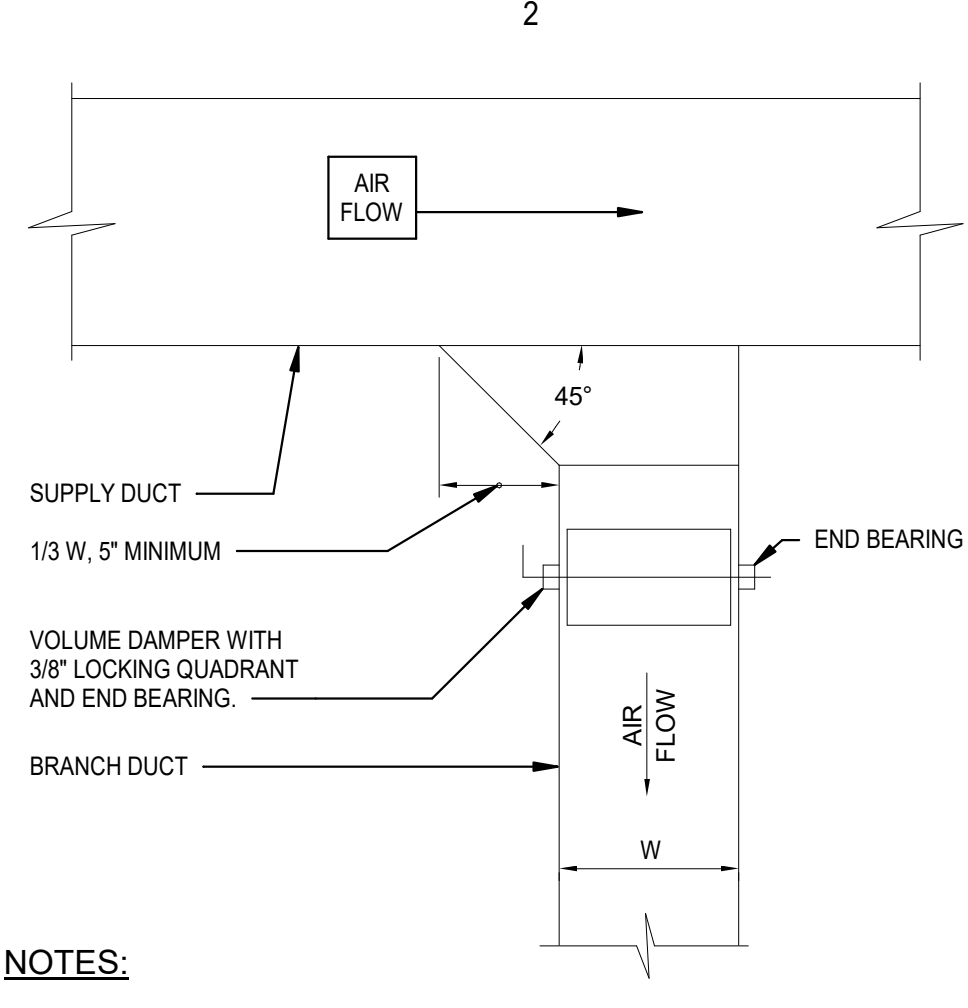
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SHEET NO. M101 PROJ. NO. 2023231.02

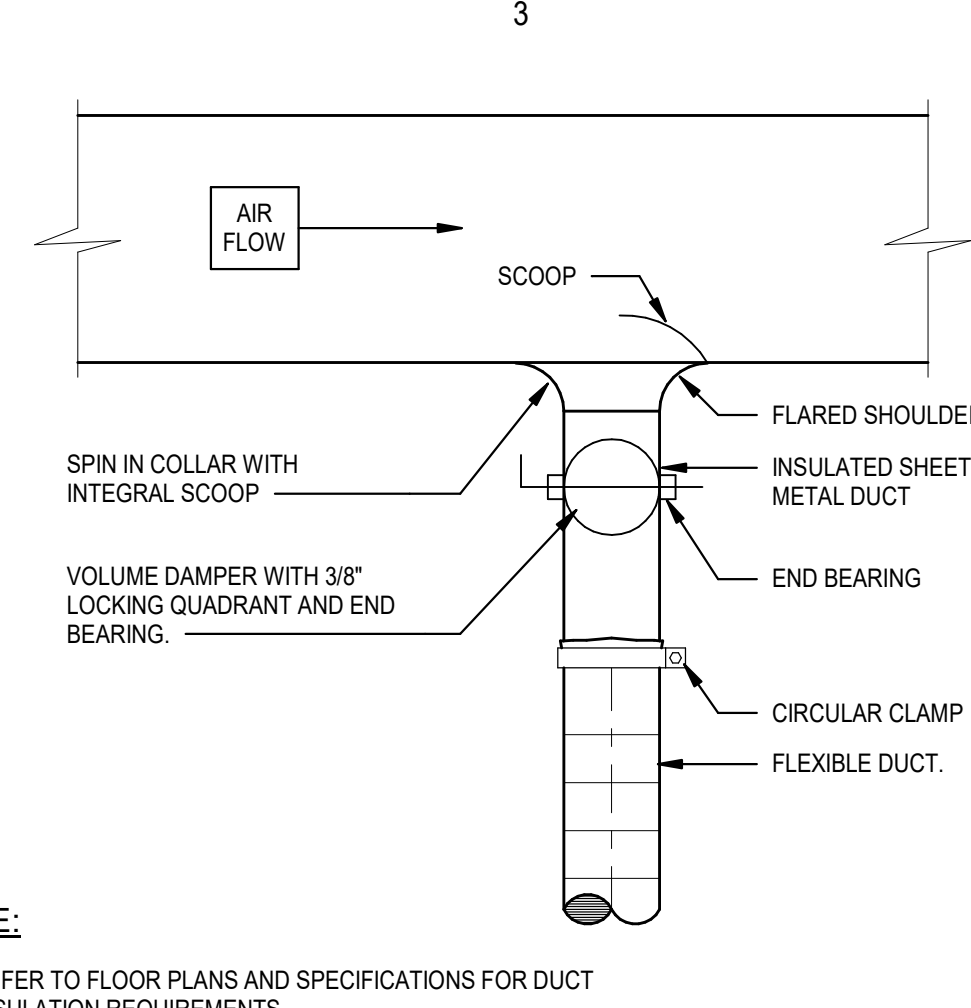
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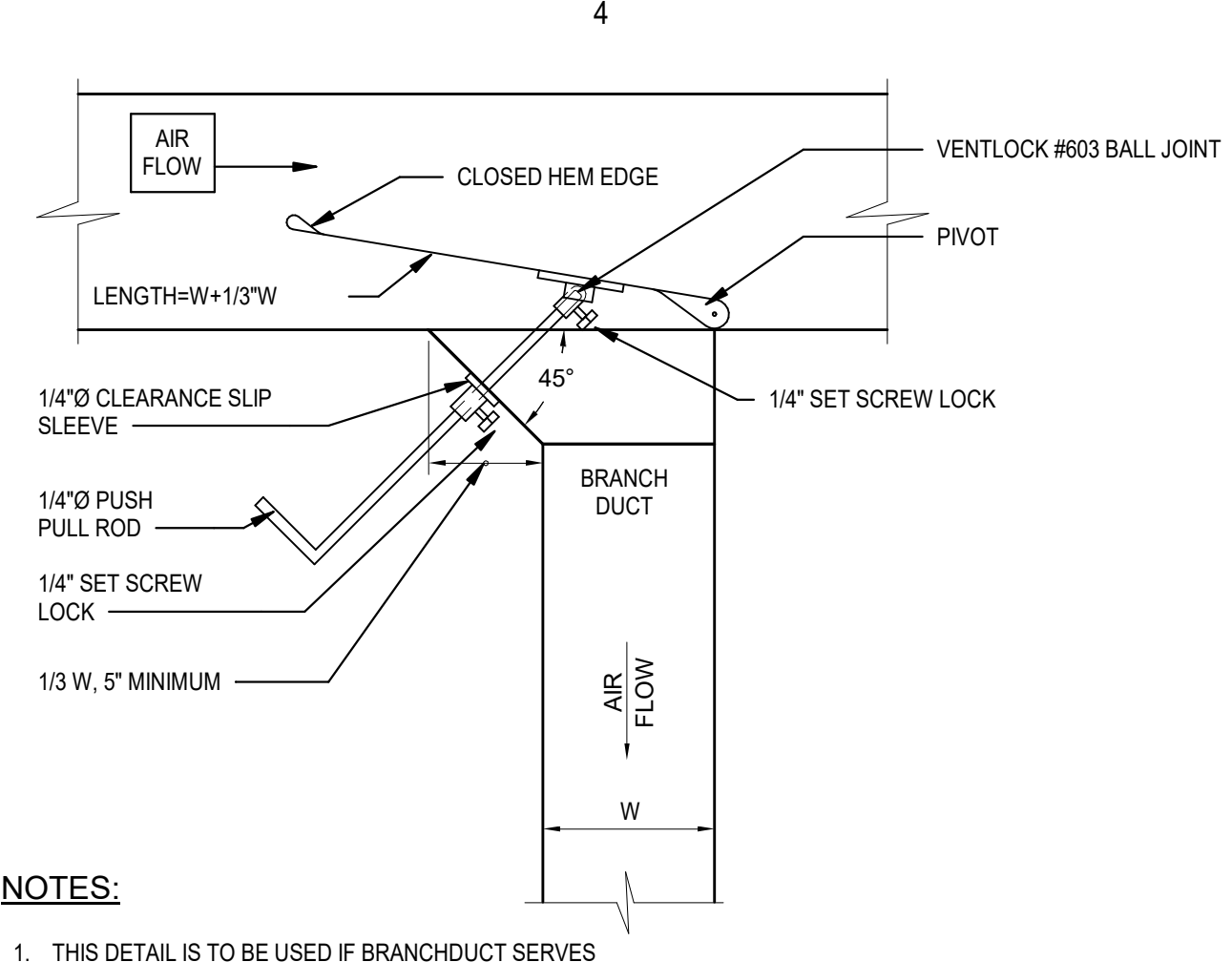
D1 RECTANGULAR RETURN DUCT DETAIL
M201 NTS



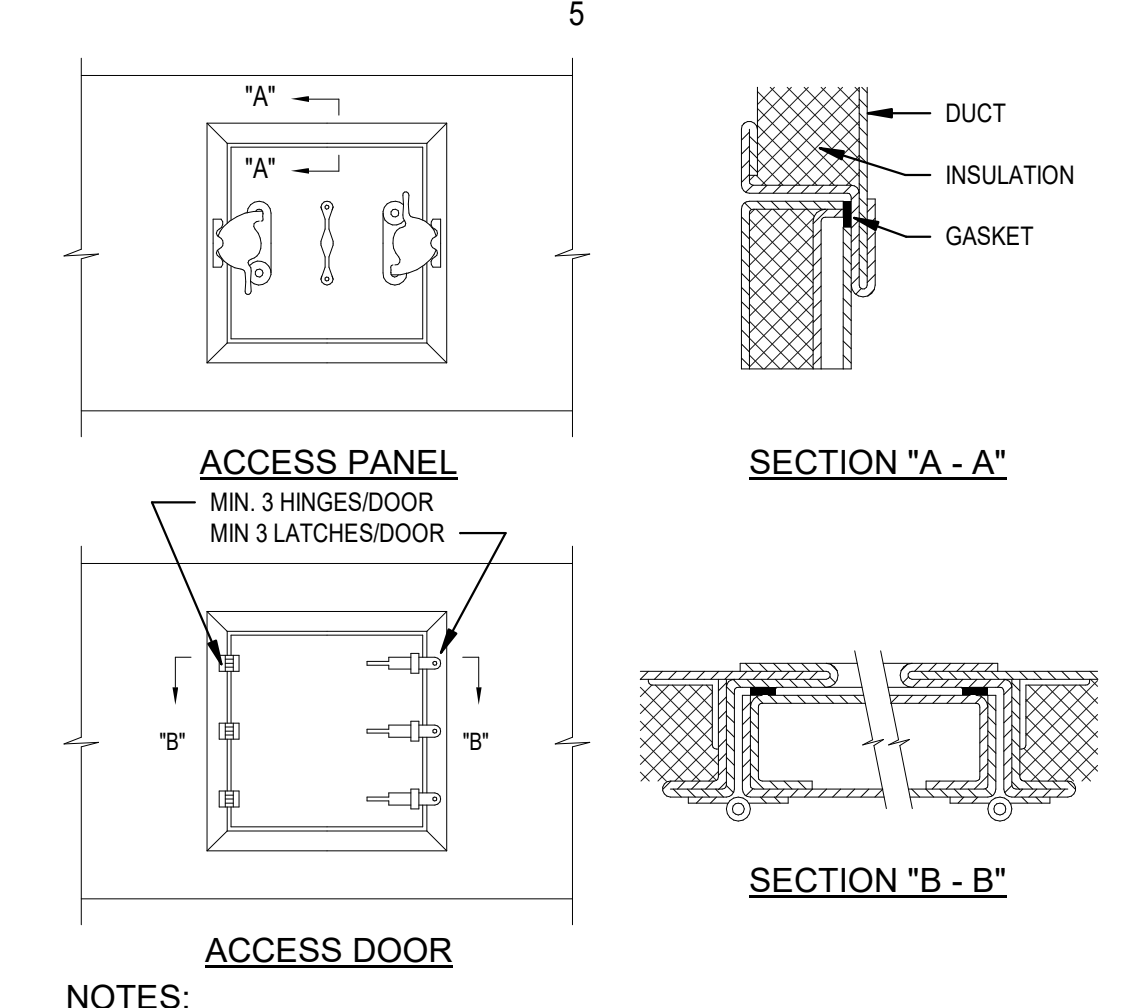
D2 SQUARE DUCT DETAIL
M201 NTS



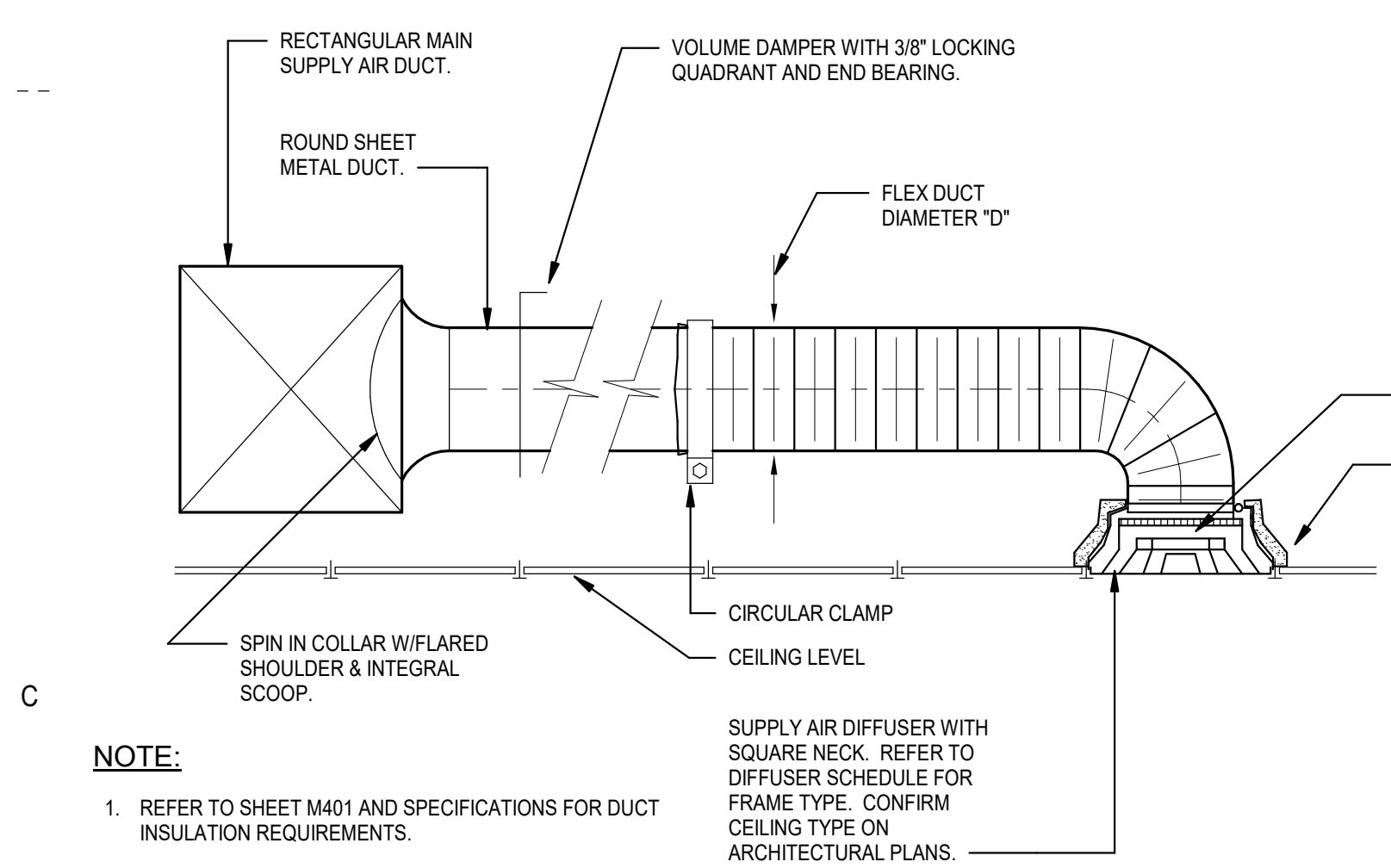
D3 ROUND DUCT DETAIL
M201 NTS



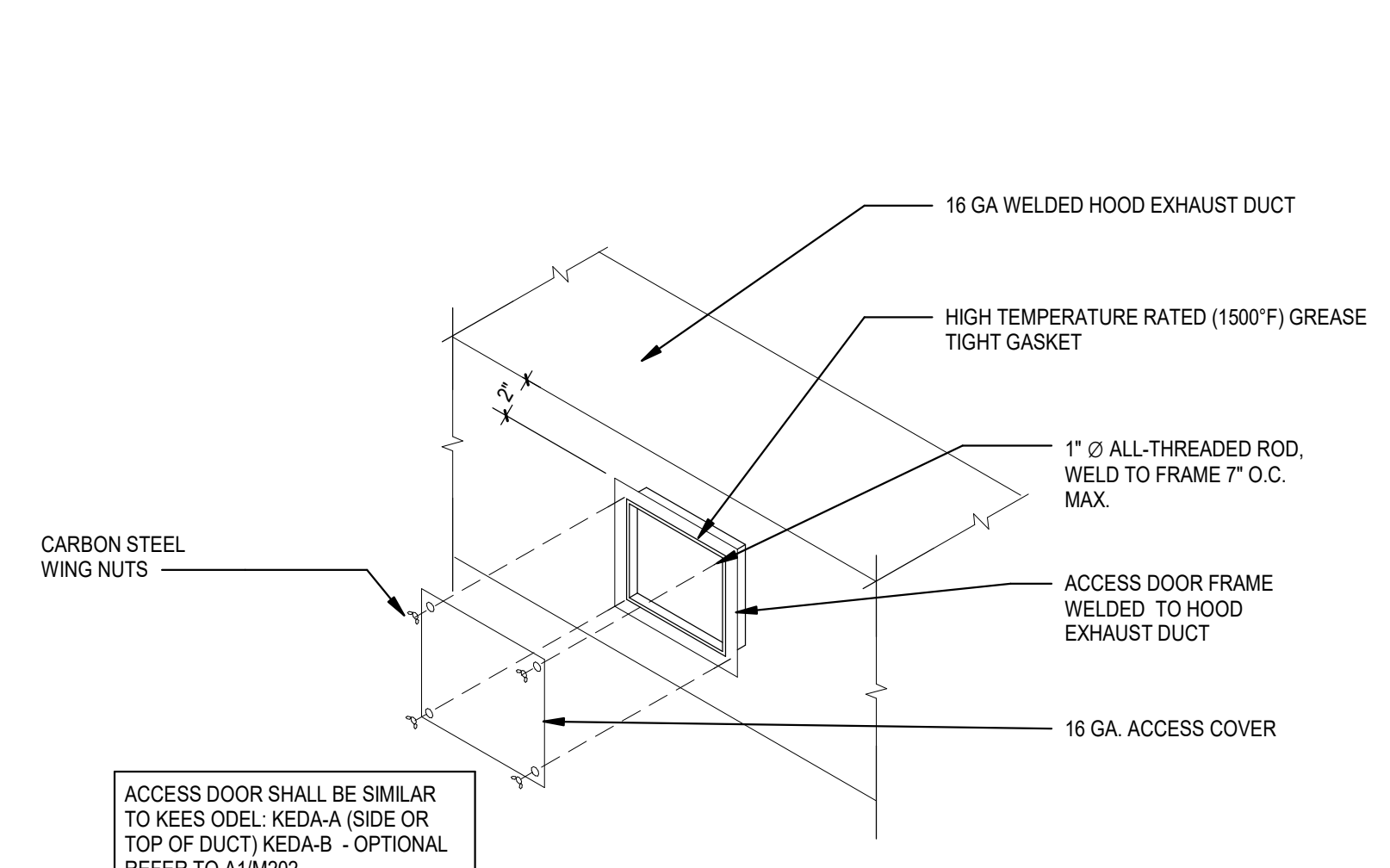
D4 RECTANGULAR SUPPLY DUCT W/CLINCH COLLAR
M201 NTS



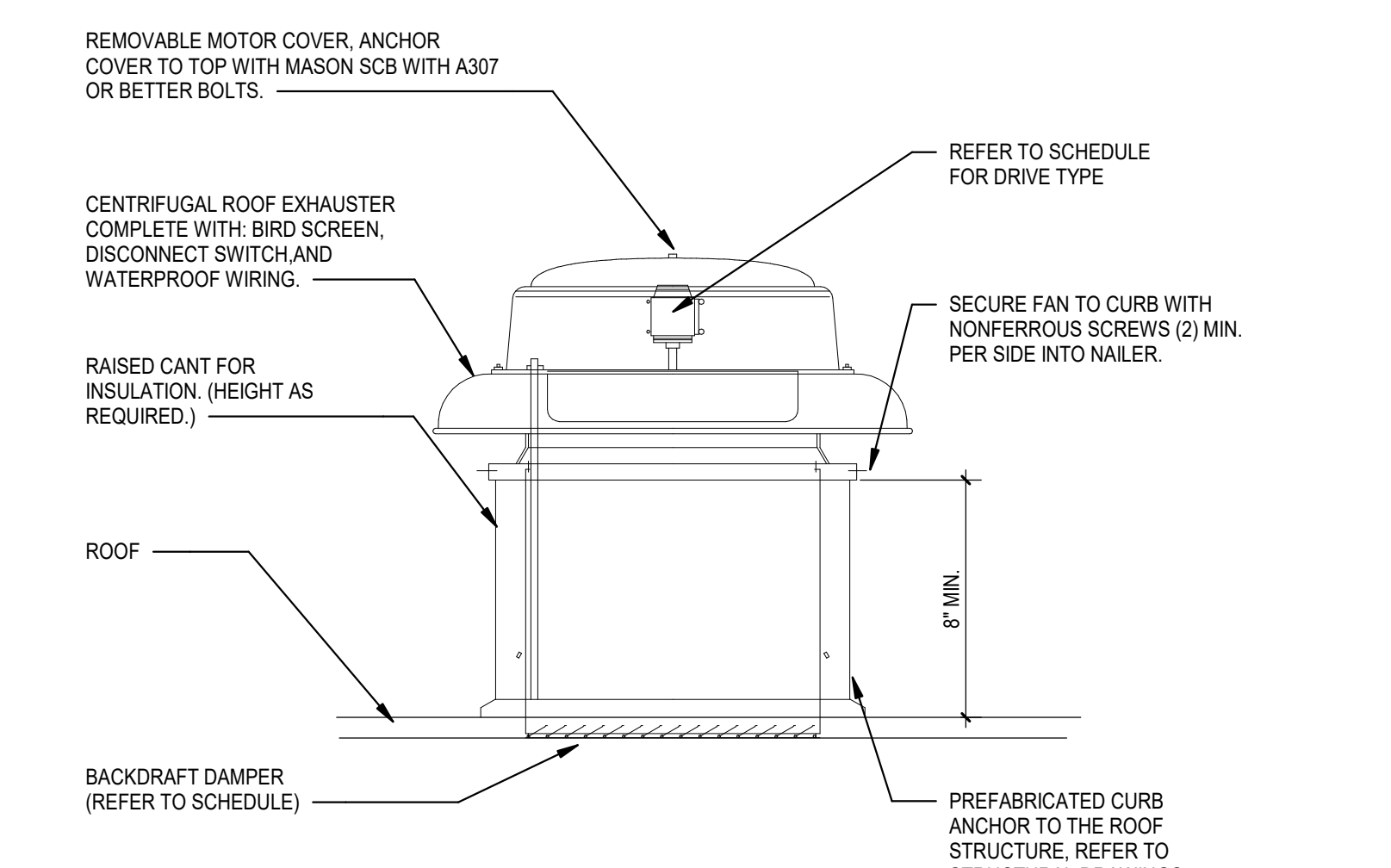
D5 NON-GREASE DUCT ACCESS DOOR
M201 NTS



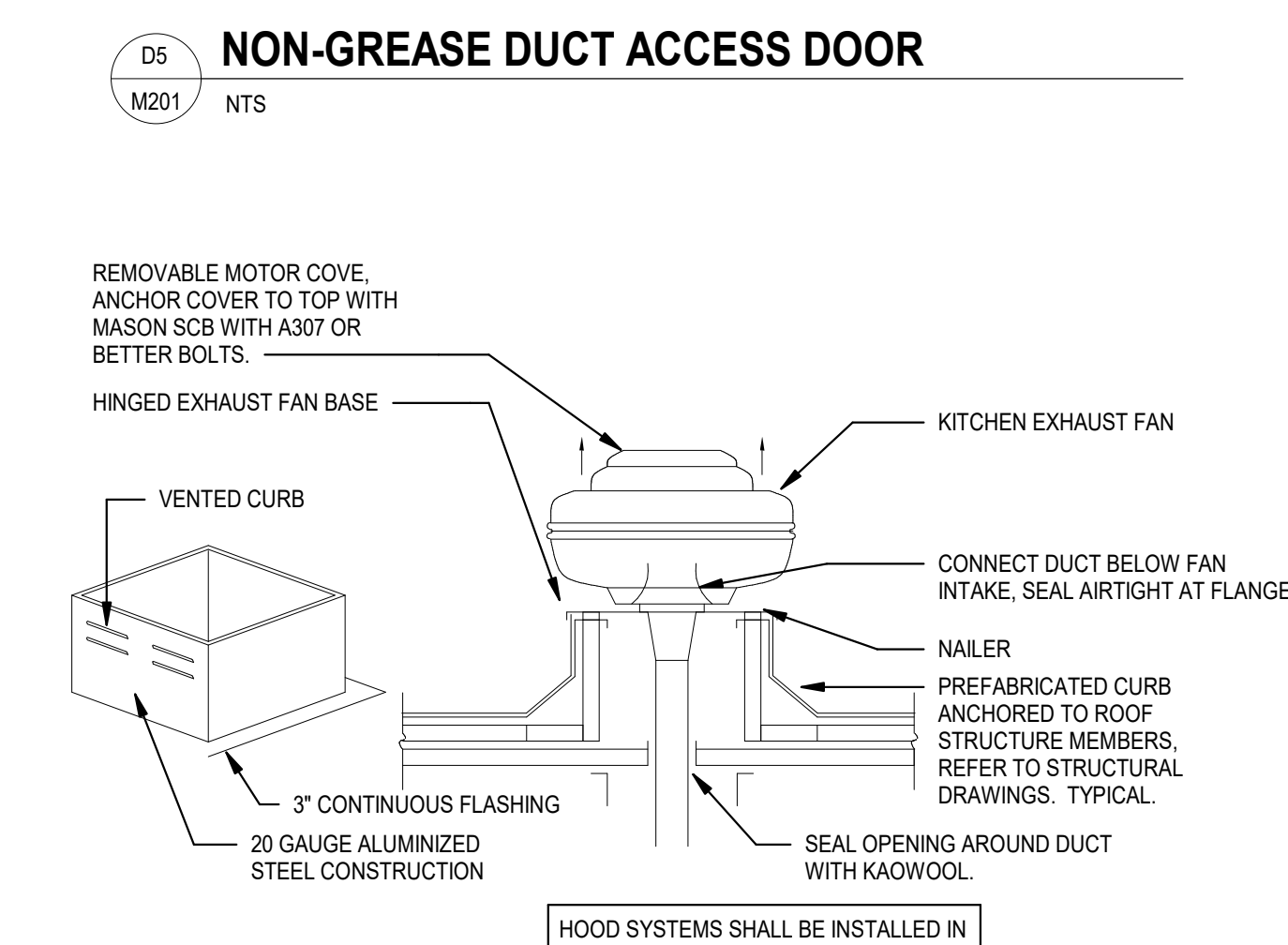
C1 SUPPLY AIR DIFFUSER DETAIL
M201 NTS



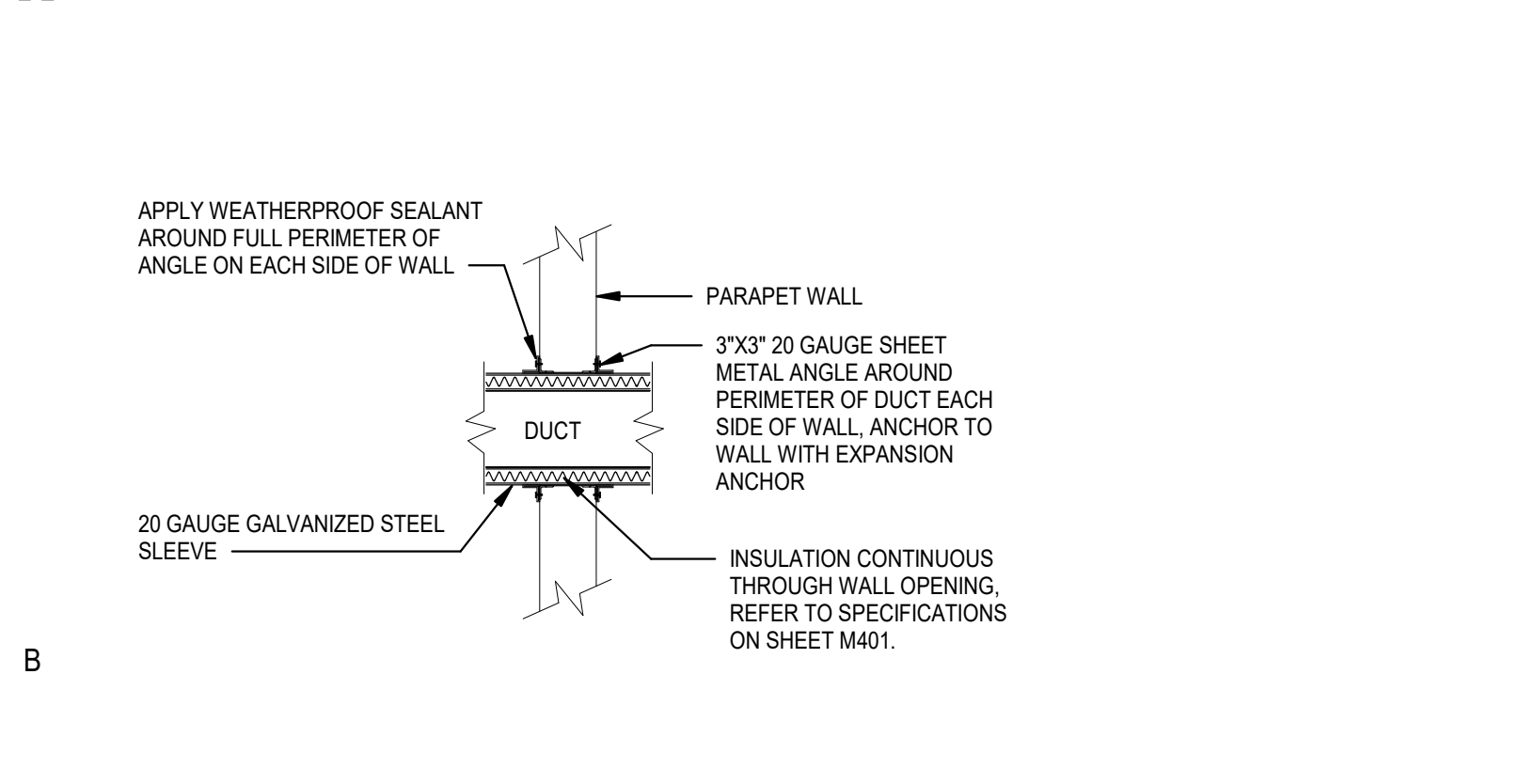
C2 HOOD EXHAUST DUCT CLEANOUT
M201 NTS



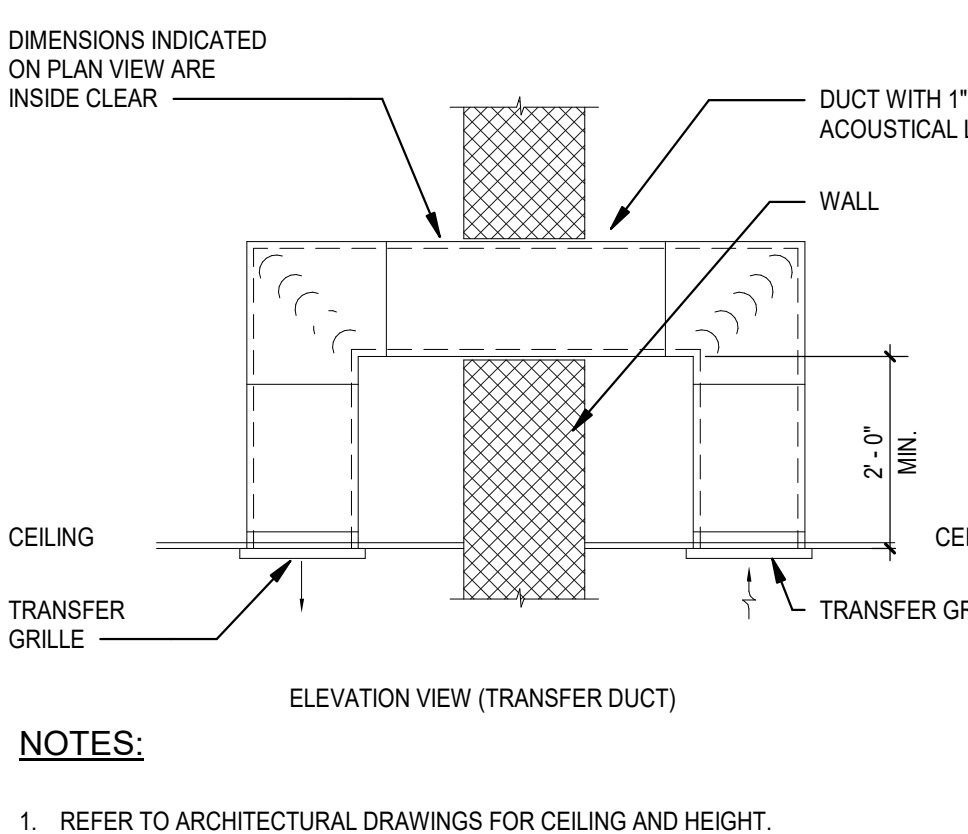
C3 CENTRIFUGAL ROOF EXHAUST
M201 NTS



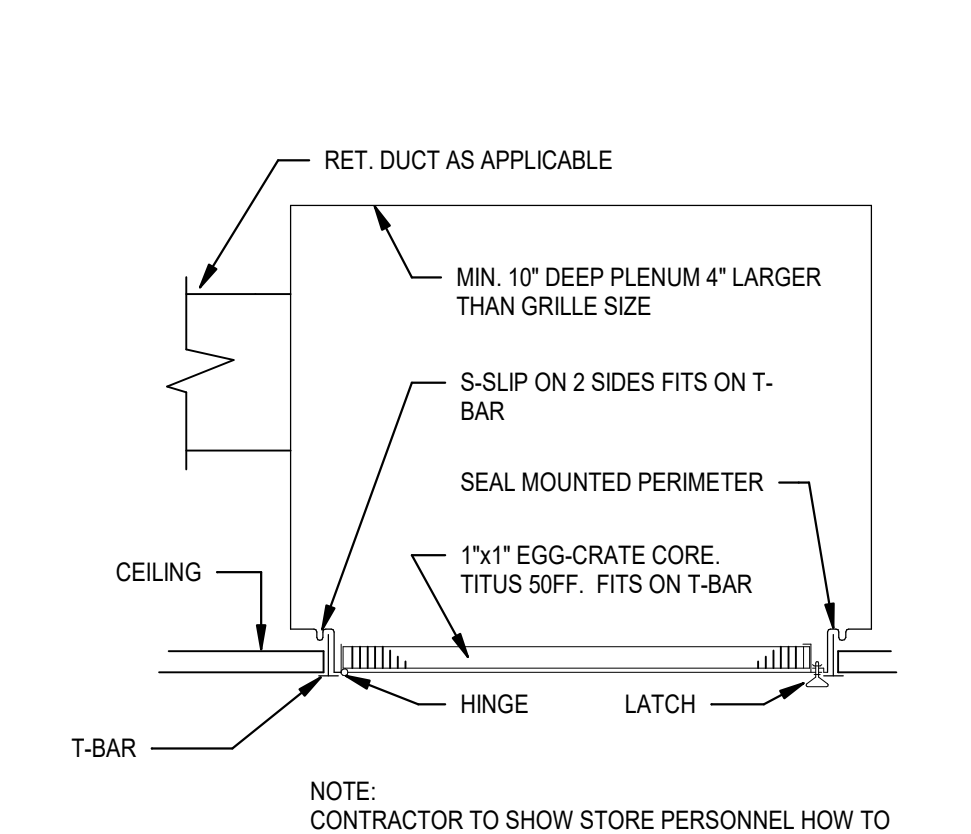
C4 KITCHEN HOOD EXHAUST FAN
M201 NTS



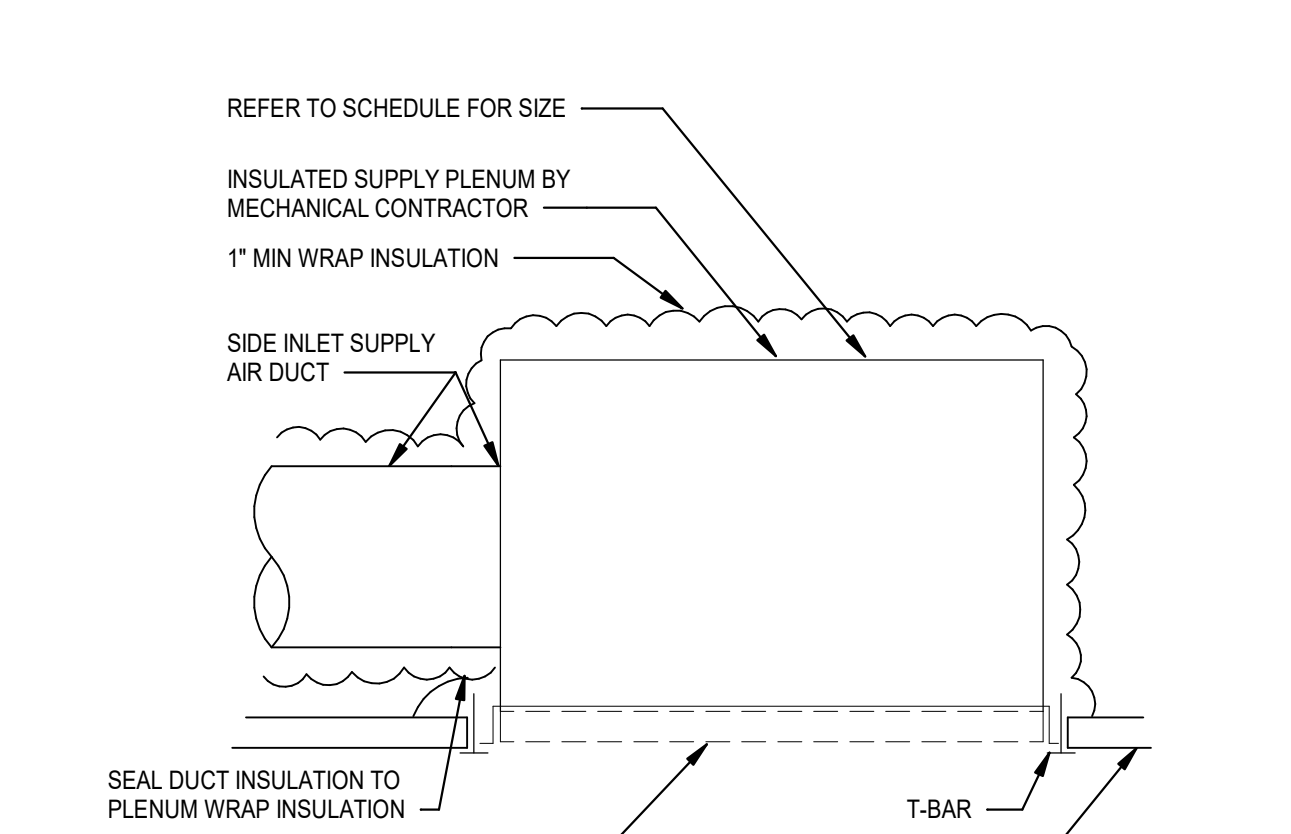
B1 DUCT PENETRATION DETAIL (INTERIOR)
M201 NTS



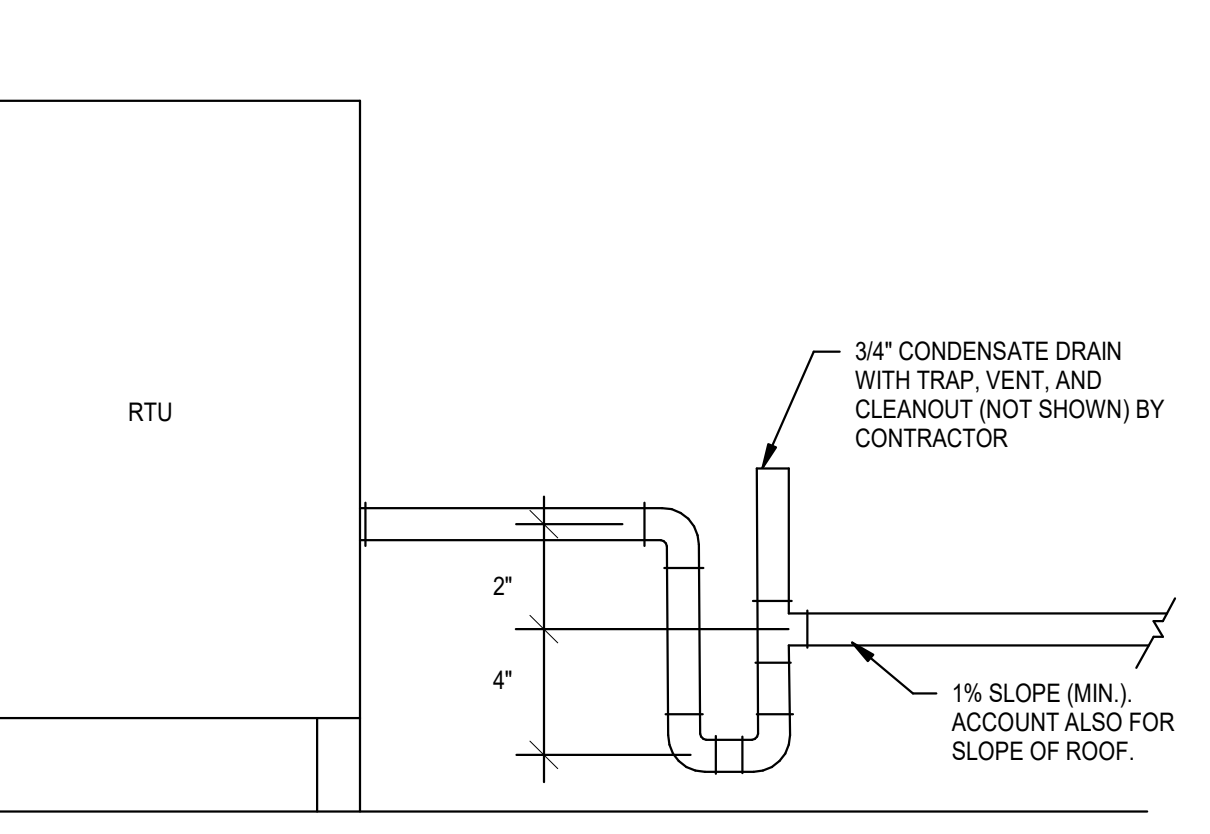
B2 TRANSFER GRILL DETAIL
M201 NTS



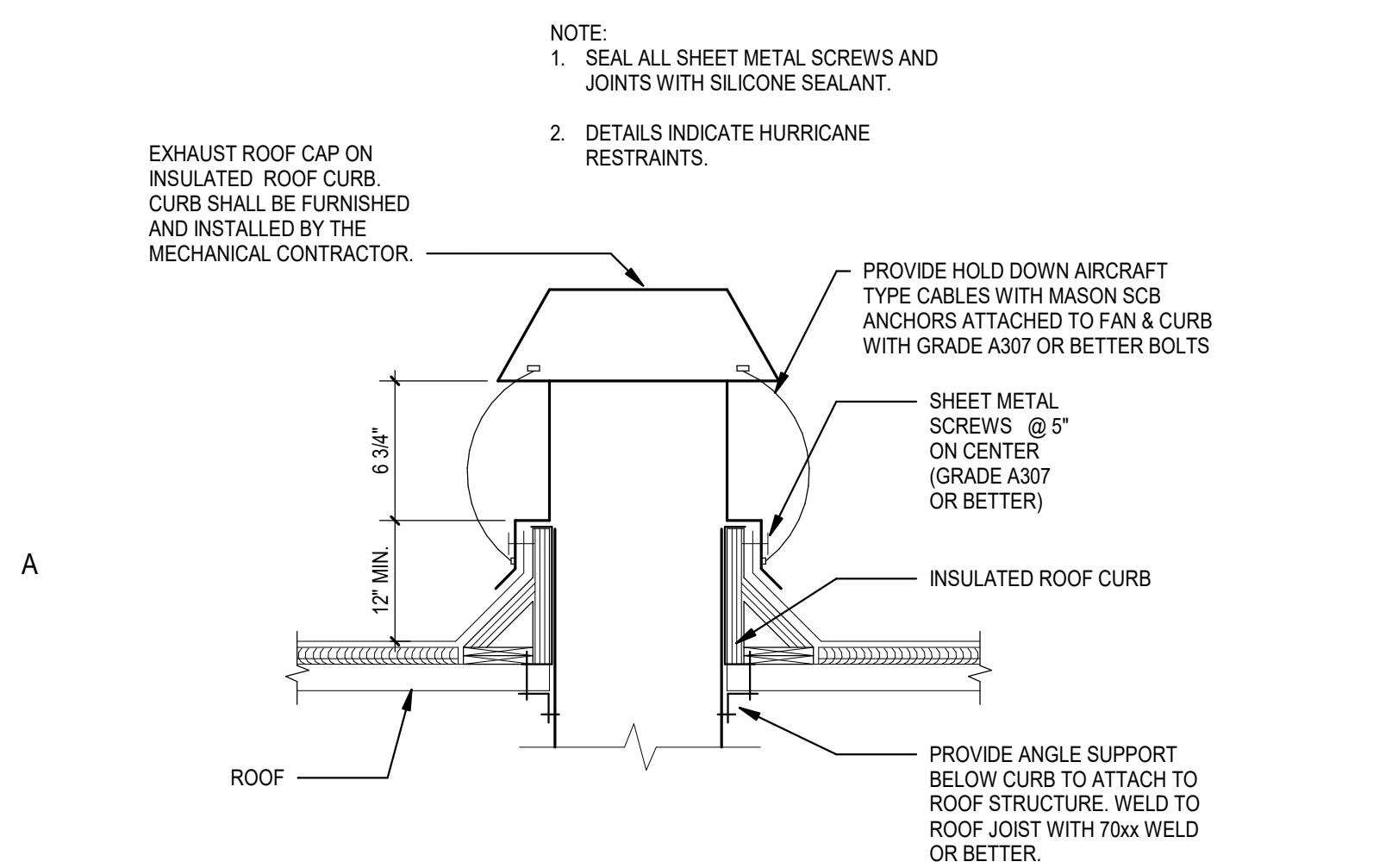
B3 RETURN / EXHAUST GRILLE
M201 NTS



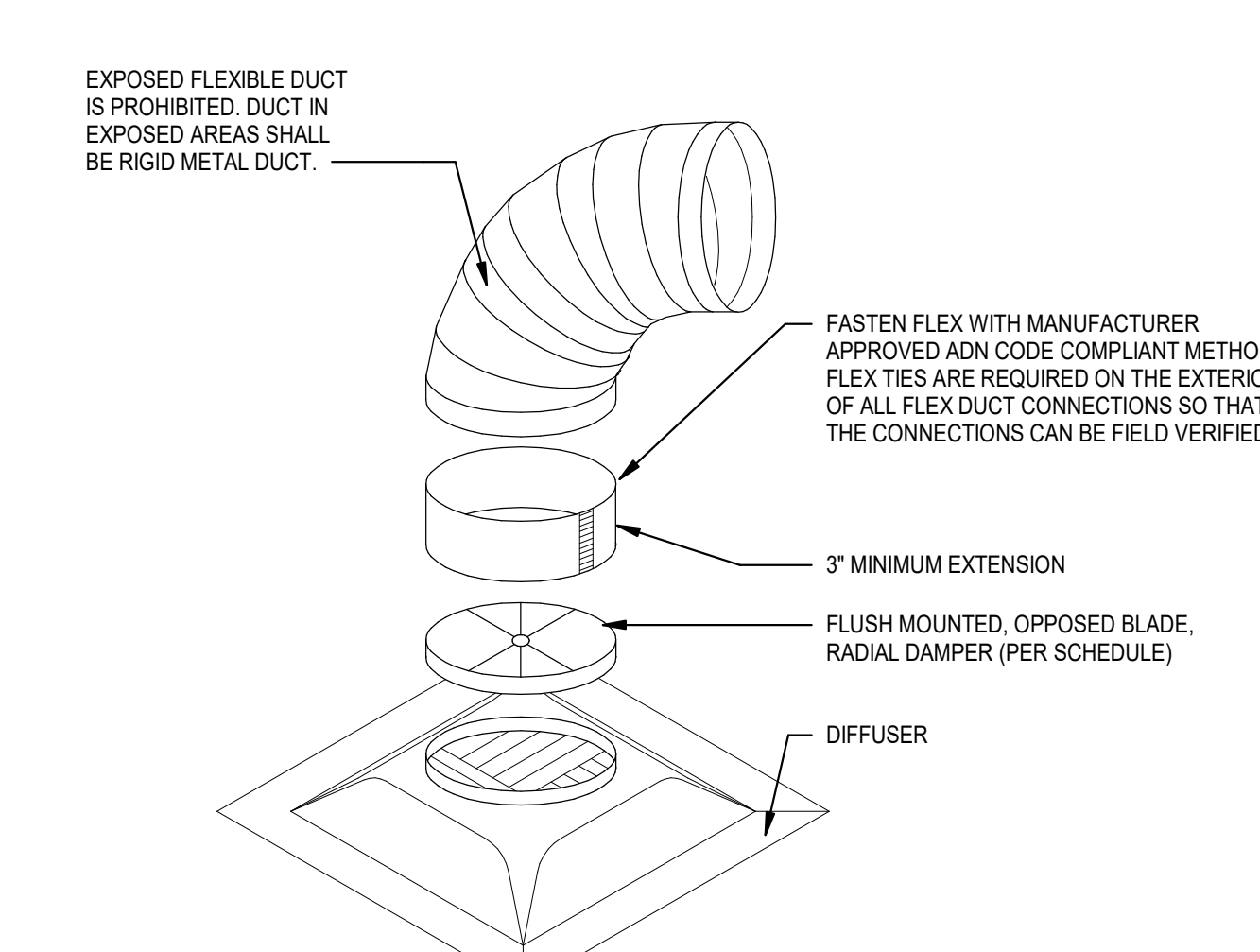
B4 PERFORATED FACE SUPPLY GRILLE DETAIL
M201 NTS



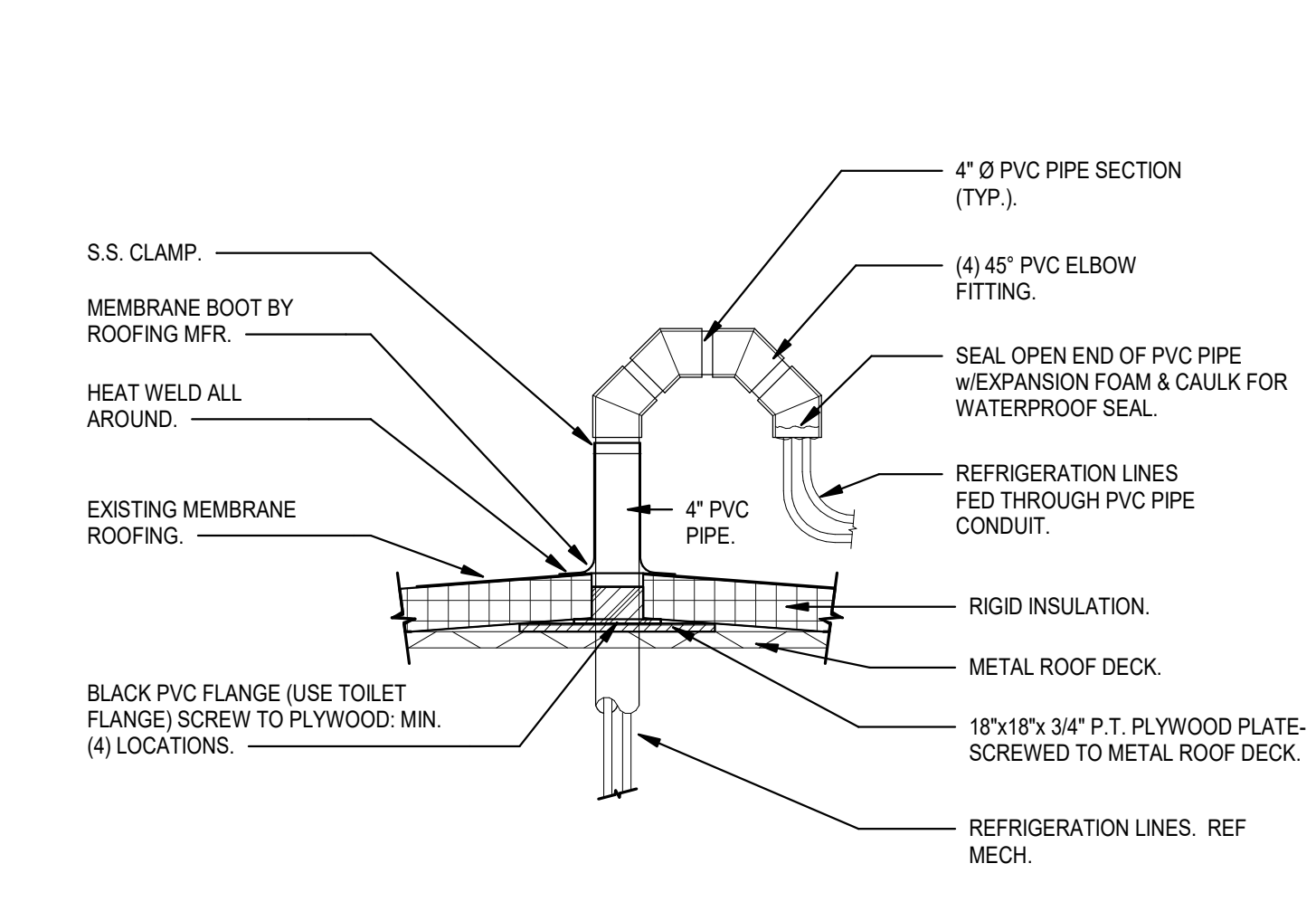
B5 CONDENSATE DRAIN DETAIL
M201 NTS



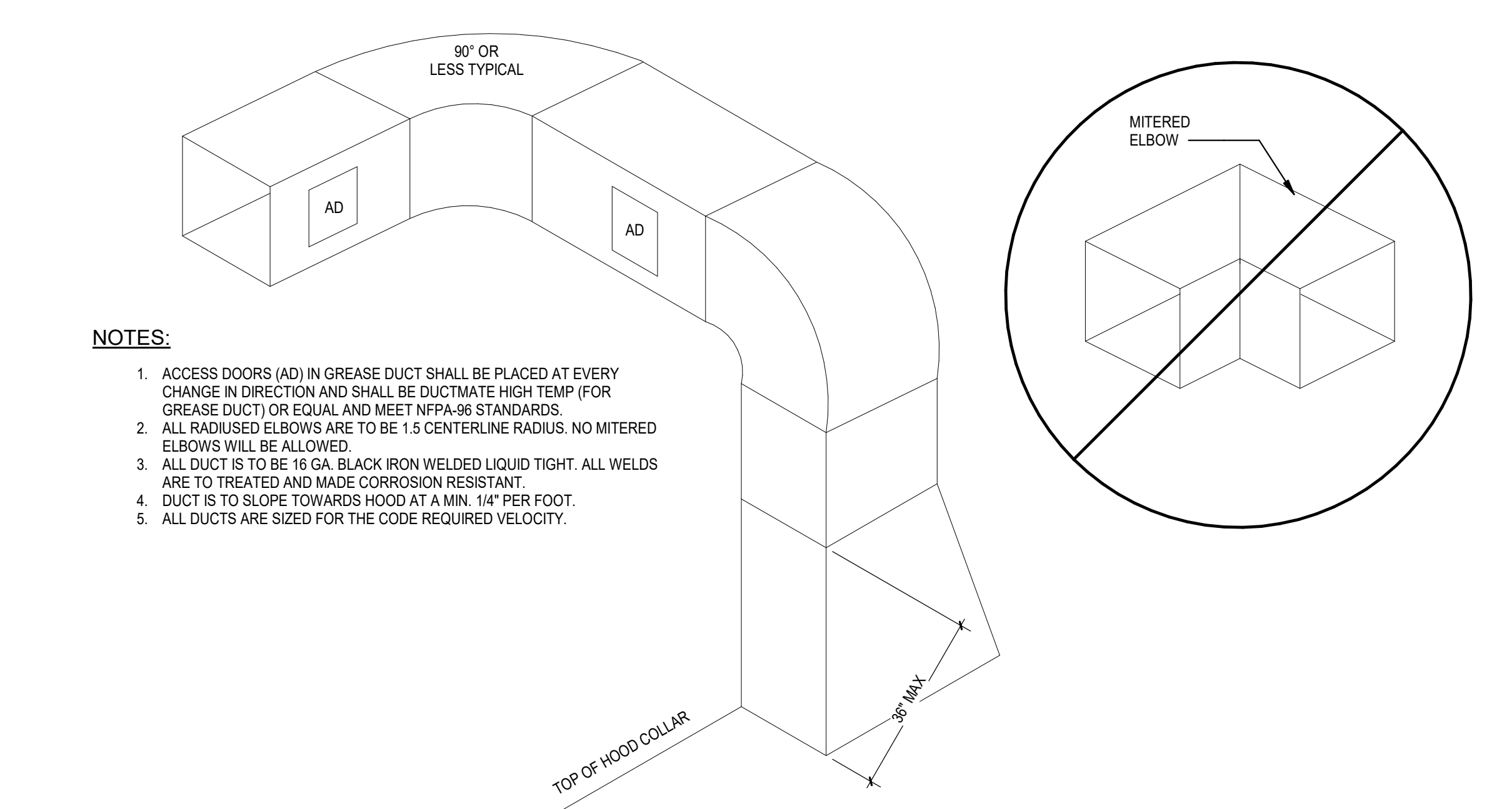
A1 EXHAUST CAP DETAIL W/ HURRICANE RESTRAINT
M201 NTS



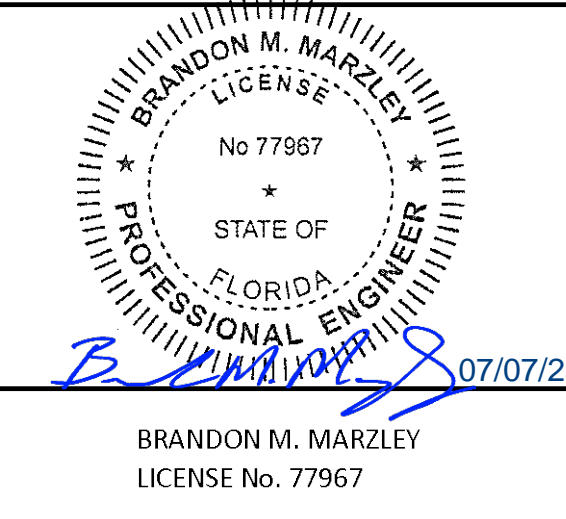
A2 TYPICAL DUCT CONNECTION DETAIL
M201 NTS



A3 TYPICAL REFRIGERANT PIPE ROOF DETAIL
M201 NTS



A4 TYPICAL GREASE DUCT DETAIL
M201 NTS



BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE #2044
16322 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

SHEET ISSUE:
08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

SHEET TITLE:
MECHANICAL
DETAILS

SHEET NO. PROJ. NO.
M201 2023231.02

M201

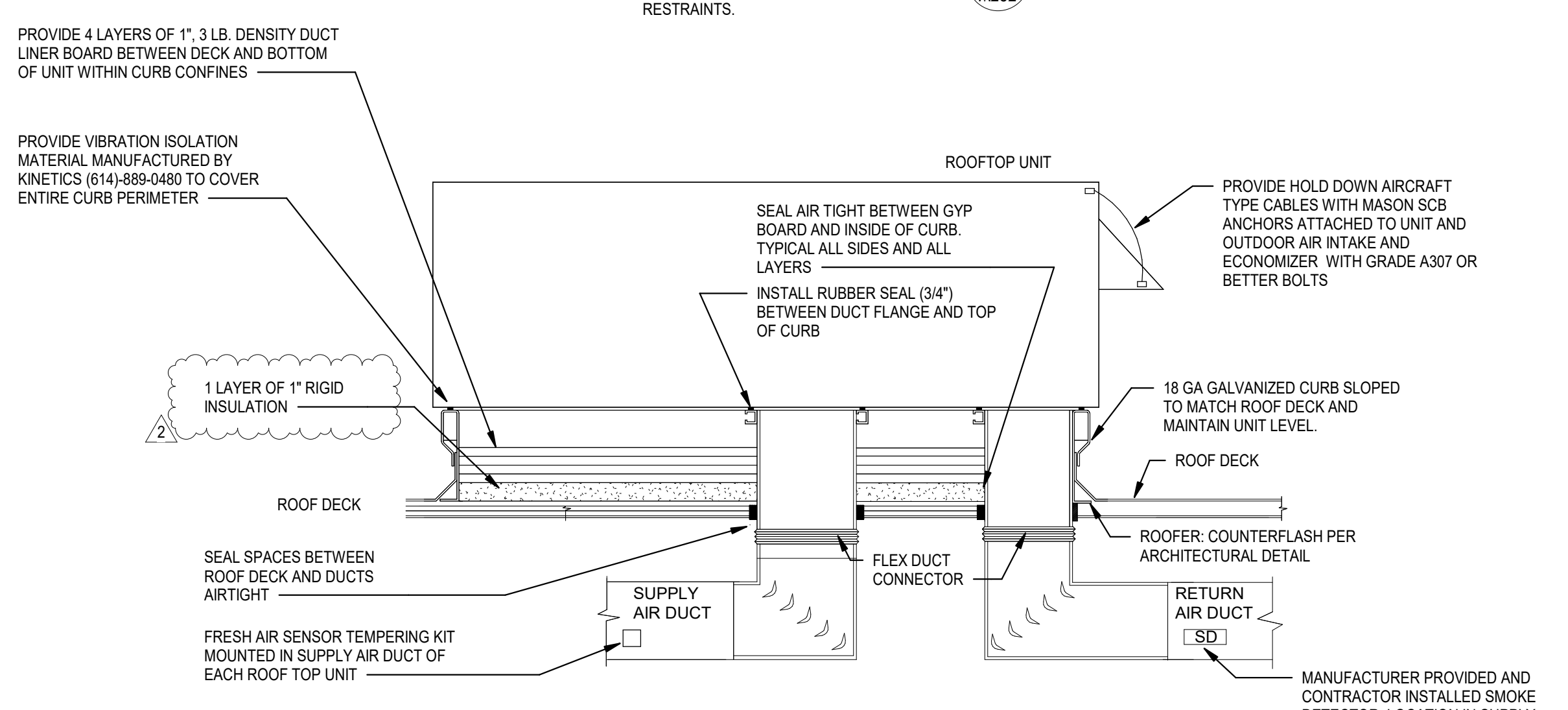
Air System Sizing Summary for RTU-1 (DINING B)			
Project Name: 2023231.02 OBS - Winter Garden, FL		01/08/2024	
Prepared by: GPD Group		10:00AM	
Air System Information			
Air System Name	RTU-1 (DINING B)	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	1685.0 R ²
Air System Type	SZCAV	Location	Orlando, Florida
Sizing Calculation Information			
Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads
Central Cooling Coil Sizing Data			
Total coil load	11.4 Tons	Load occurs at	Jan 1400
Sensible coil load	136.8 MBH	OA DB / WB	92.5 / 75.9 °F
Latent coil load	86.6 MBH	Entering DB / WB	81.7 / 68.5 °F
Coil CFM at Aug 1500	3046 CFM	Leaving DB / WB	54.7 / 53.7 °F
Max block CFM	3046 CFM	Coil ADP	51.7 °F
Sum of peak zone CFM	3046 CFM	Bypass Factor	0.100
Sensible heat ratio	0.633	Resulting RH	55 %
CFM/Ton	267.1	Design supply temp.	58.0 °F
BTU/(hr·R)	147.8	Zone T-stat Check	1 of 1 OK
BTU/(hr·R)	81.2	Max zone temperature deviation	0.0 °F
Water flow @ 10.0 °F rise	N/A		
Central Heating Coil Sizing Data			
Total coil load	54.4 MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	3046 CFM	BTU/(hr·R)	32.3
Max coil CFM	3046 CFM	Ent. DB / Lvg DB	58.3 / 75.0 °F
Water flow @ 20.0 °F drop	N/A		
Supply Fan Sizing Data			
Actual max CFM	3046 CFM	Fan motor BHP	3.00 BHP
Standard CFM	3034 CFM	Fan motor kW	2.49 kW
Actual max CFM/R ²	1.81 CFM/R ²		
Outdoor Ventilation Air Data			
Design airflow CFM	1070 CFM	CFM/person	13.21 CFM/person
CFM/R ²	0.64 CFM/R ²		

Air System Sizing Summary for RTU-2 (DINING A&C AND BAR)			
Project Name: 2023231.02 OBS - Winter Garden, FL		01/08/2024	
Prepared by: GPD Group		10:00AM	
Air System Information			
Air System Name	RTU-2 (DINING A&C AND BAR)	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	1422.0 R ²
Air System Type	SZCAV	Location	Orlando, Florida
Sizing Calculation Information			
Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads
Central Cooling Coil Sizing Data			
Total coil load	12.2 Tons	Load occurs at	Aug 1500
Sensible coil load	146.1 MBH	OA DB / WB	94.0 / 76.0 °F
Latent coil load	81.5 MBH	Entering DB / WB	81.5 / 68.4 °F
Coil CFM at Aug 1500	3280 CFM	Leaving DB / WB	54.8 / 53.8 °F
Max block CFM	3280 CFM	Coil ADP	51.9 °F
Sum of peak zone CFM	3280 CFM	Bypass Factor	0.100
Sensible heat ratio	0.643	Resulting RH	55 %
CFM/Ton	269.4	Design supply temp.	58.0 °F
BTU/(hr·R)	116.8	Zone T-stat Check	1 of 1 OK
BTU/(hr·R)	102.7	Max zone temperature deviation	0.0 °F
Water flow @ 10.0 °F rise	N/A		
Central Heating Coil Sizing Data			
Total coil load	51.0 MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	3280 CFM	BTU/(hr·R)	35.8
Max coil CFM	3280 CFM	Ent. DB / Lvg DB	59.2 / 73.6 °F
Water flow @ 20.0 °F drop	N/A		
Supply Fan Sizing Data			
Actual max CFM	3280 CFM	Fan motor BHP	3.00 BHP
Standard CFM	3267 CFM	Fan motor kW	2.49 kW
Actual max CFM/R ²	2.31 CFM/R ²		
Outdoor Ventilation Air Data			
Design airflow CFM	1070 CFM	CFM/person	10.92 CFM/person
CFM/R ²	0.75 CFM/R ²		

Air System Sizing Summary for RTU-3 (KITCHEN)			
Project Name: 2023231.02 OBS - Winter Garden, FL		01/08/2024	
Prepared by: GPD Group		10:00AM	
Air System Information			
Air System Name	RTU-3 (KITCHEN)	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	1231.0 R ²
Air System Type	SZCAV	Location	Orlando, Florida
Sizing Calculation Information			
Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads
Central Cooling Coil Sizing Data			
Total coil load	11.8 Tons	Load occurs at	Aug 1500
Sensible coil load	142.2 MBH	OA DB / WB	94.0 / 76.0 °F
Latent coil load	109.2 MBH	Entering DB / WB	80.1 / 66.5 °F
Coil CFM at Aug 1500	4390 CFM	Leaving DB / WB	57.0 / 55.8 °F
Max block CFM	4390 CFM	Coil ADP	54.5 °F
Sum of peak zone CFM	4390 CFM	Bypass Factor	0.100
Sensible heat ratio	0.768	Resulting RH	49 %
CFM/Ton	370.5	Design supply temp.	58.0 °F
BTU/(hr·R)	193.9	Zone T-stat Check	1 of 1 OK
BTU/(hr·R)	115.5	Max zone temperature deviation	0.0 °F
Water flow @ 10.0 °F rise	N/A		
Central Heating Coil Sizing Data			
Total coil load	33.7 MBH	Load occurs at	Des Htg
Coil CFM at Des Htg	4390 CFM	BTU/(hr·R)	27.4
Max coil CFM	4390 CFM	Ent. DB / Lvg DB	62.0 / 69.1 °F
Water flow @ 20.0 °F drop	N/A		
Supply Fan Sizing Data			
Actual max CFM	4390 CFM	Fan motor BHP	3.00 BHP
Standard CFM	4373 CFM	Fan motor kW	2.49 kW
Actual max CFM/R ²	3.57 CFM/R ²		
Outdoor Ventilation Air Data			
Design airflow CFM	1025 CFM/R ²	CFM/person	146.43 CFM/person
CFM/R ²	0.83 CFM/R ²		

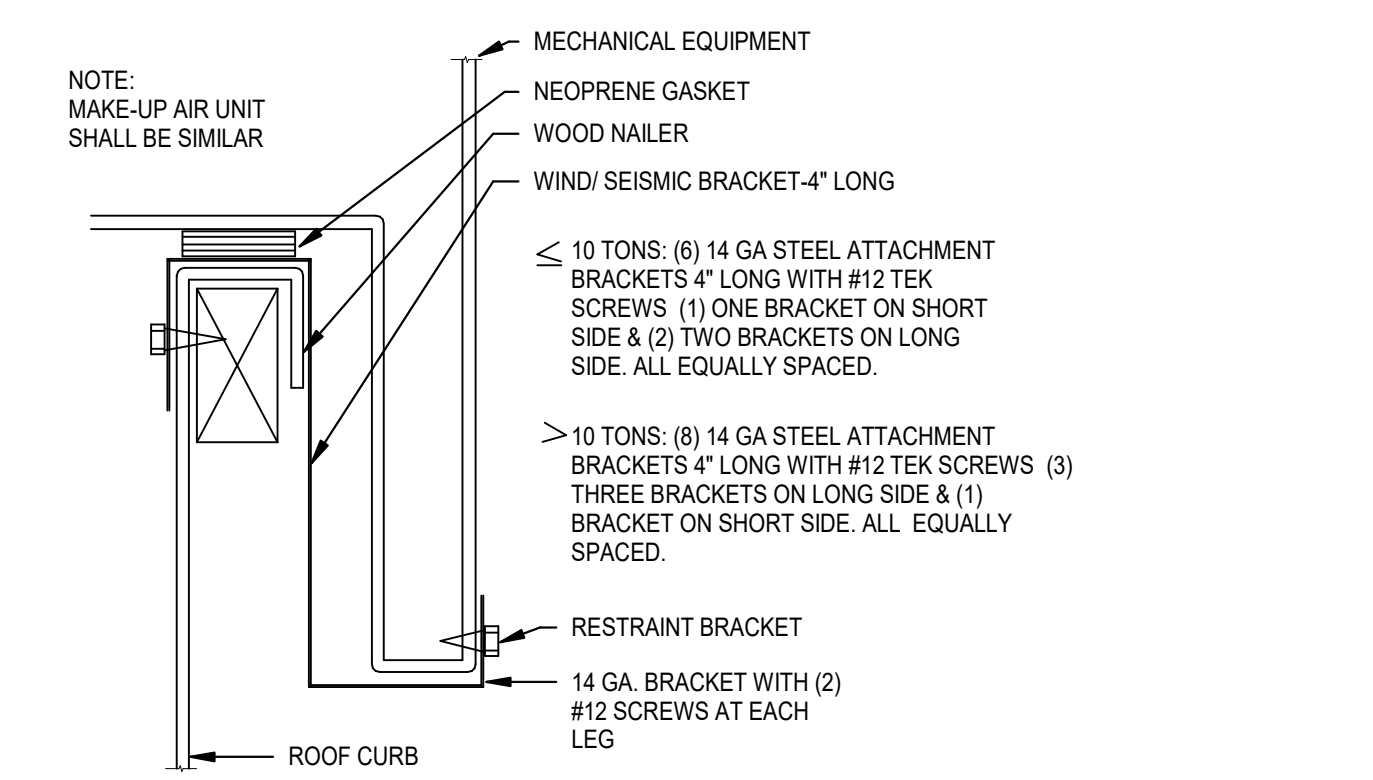
C2 HVAC LOAD CALCULATIONS
N.T.S.

NOTE:
1. DETAILS INDICATE HURRICANE RESTRAINTS.

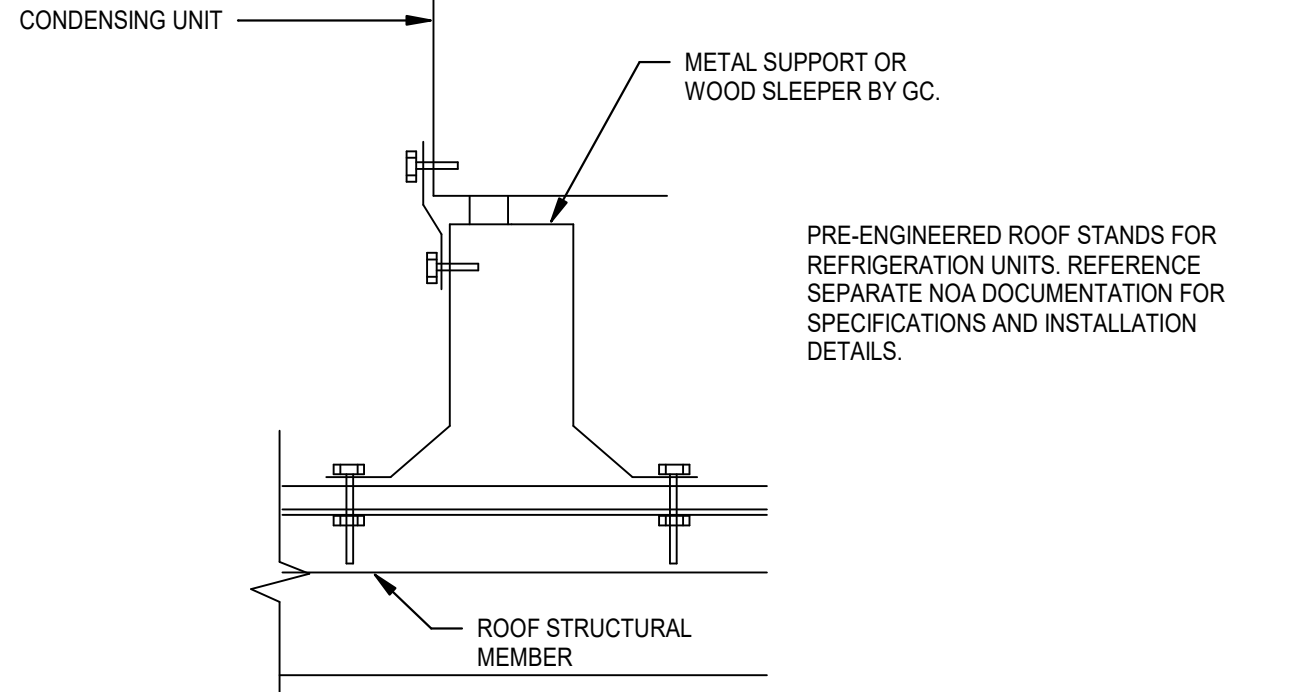


- NOTES:**
1. PROVIDE AUTOMATIC SHUTOFF SMOKE DETECTORS IN ROOF TOP UNITS, REFER TO FLOOR PLAN AND RTU SCHEDULE FOR ADDITIONAL DETAILS.
 2. REFER TO M401 FOR DUCTWORK NOTES AND SPECIFICATIONS.

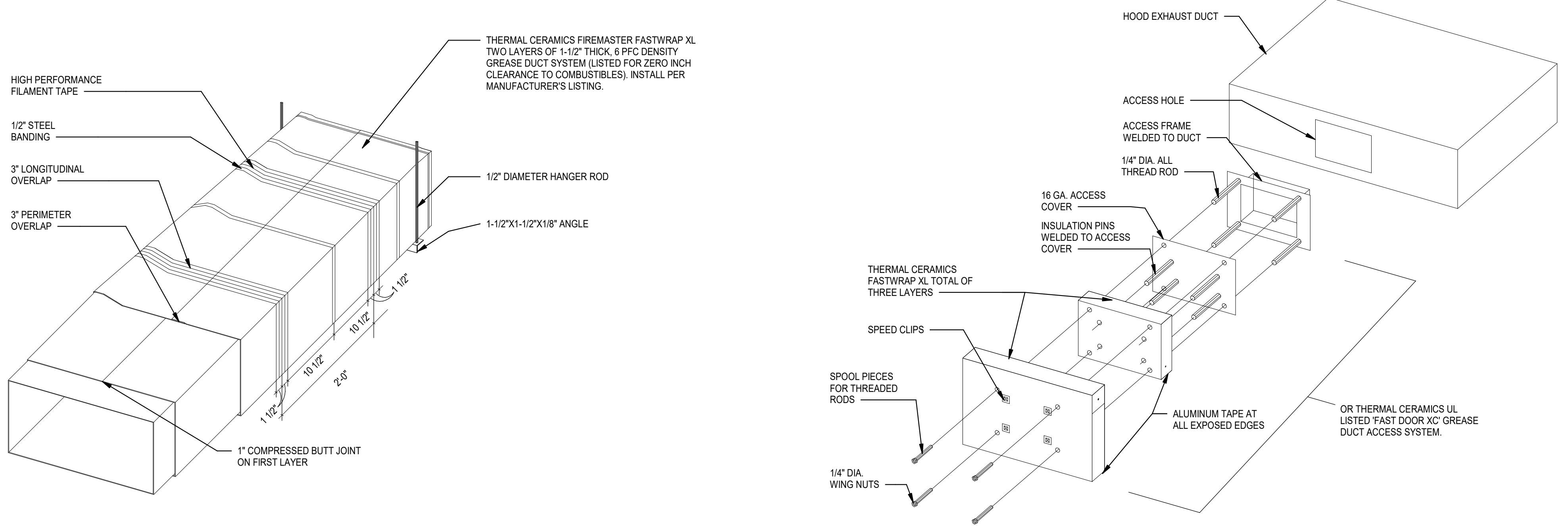
B1 ROOFTOP UNIT DETAIL
M202 NTS



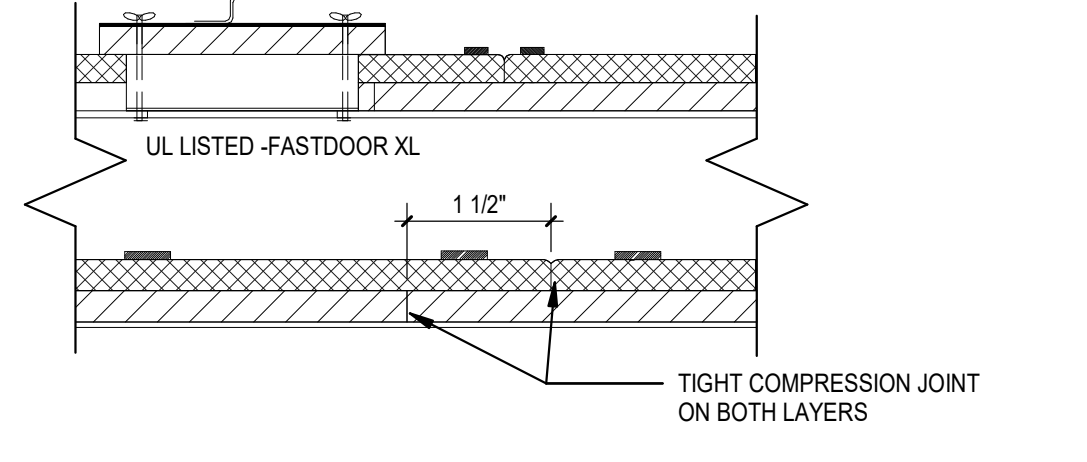
B2 ROOF MOUNT EQUIPMENT DETAIL
M202 NTS



B3 REFRIGERATION MOUNTING DETAIL
M202 NTS



A1 GREASE DUCT WRAP DETAIL
M202 NTS



LISTED USES	AGENCY	LISTING	LAYERS
GREASE DUCT ENCLOSURE PER ASTM E2338 AND AC101(2006, 2009, 2012 IMC, NFPA 96, UMC, CMC)	UL ICC-ES	G18 ESP 2213	2

OUTBACK STEAKHOUSE

GPD GROUP, INC.
LIC. # - 30920

520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

BRANDON M. MARZLEY
LICENSE No. 77967

07/07/25

BLOOMIN BRANDS

OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE #2044
16323 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

SHEET ISSUE:

DATE	ISSUED FOR PERMIT
08/14/2023	ISSUED FOR PERMIT
04/26/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
10/04/2024	PROTOTYPE UPDATES

PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

MECHANICAL DETAILS

SHEET NO. PROJ. NO. 2023231.02

M202

FAN SCHEDULE

MARK	EF-1 2415	EF-2 1915	EF-3 1480	EF-4 1050	EF-5 450	MUA-1 4880
CFM						
S.P.						
MANUFACTURER						
MODEL NO.						
RPM						
H.P.						
VOLTS/PHASE/HZ						
ACCESSORIES						
BD DAMPER						
BIRD SCREEN						
DISCONNECT						
BELT DRIVE						
DIRECT DRIVE						
OTHER						
CURB MODEL/SIZE						
ROOF OPENING SIZE						
FURNISHED BY:	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER
INSTALLED BY:	MC	MC	MC	MC	MC	MC
NOTES (REFER TO BELOW)	HOOD #1	HOOD #2	HOOD #3	HOOD #4	PUBLIC RESTROOMS	

AIR DEVICE SCHEDULE

MARK	Size	TYPE	DIFFUSER REGISTER GRILL	CFM	L-BAR SURFACE DUCT	THROW	DUTY	FT. THROW AT 150 FPM	PRICE MODEL NO.	MAX NC	NOTES
A	12"x12"	X	50-200	X	4-WAY	ASCDA	16	1.3,5,7,9			
B	12"x12"	X	50-200	X	4-WAY	ASCDA	18	1.3,5,7,9			
C	VARIABLES	X	200-400	X	4-WAY	ASCDA	18	1.4,5,10			
D	10"x6"	X	0-200	X	DOUBLE DEFLECTION	ASCDA	24	1.2,3,5			
E	10"x6"	X	0-200	X	FIXED	ASCDA	24	1.5			
F	42"x20"	X	1200	X	PERF	ASCDA	17	1.3,5,6,8,11			
G	10"x10"	X	75-200	X	EGG CRATE GRILLE	ASCDA	80	19	1.2,3,5,6,9		
H	12"x12"	X	75-200	X	EGG CRATE GRILLE	ASCDA	80	19	1.4,5,6,8,9		

1. ALUMINUM CONSTRUCTION.
 2. FURNISH W/O POSSED BLADE DAMPER (WHEN ABOVE NON-ACCESSIBLE CEILING) AND NO BRANCH VOLUME DAMPER IS INDICATED.
 3. CEILING MOUNTED OR DUCT MOUNTED.
 4. LAY-IN CEILING MOUNTED.
 5. WHITE FINISH (IN KITCHEN), SATIN BLACK (AT AREAS WITH BLACK ACT), ALL OTHERS SHALL BE PAINTED TO MATCH CEILING.
 6. 1"X1" EGG CRATE GRILLE.
 7. SQUARE TO ROUND ADAPTOR
 8. 45 DEG DEFLECTION.
 9. 12"x12" MODULE.
 10. 24"x24" MODULE.
 11. 48"x24" MODULE.

*REF SHEET M101 FOR DIFFUSER MOUNTING TYPE. SEE NOTE #3 & #4 THIS SCHEDULE.

OTHER ACCEPTABLE MANUFACTURERS SHALL BE CARNS, METAL AIR, NALOR, TUTTLE & BAILEY OR TITUS.

UNIT HEATER SCHEDULE

MARK	MAKE	MODEL	ELECTRIC	AMPS	HTG. CAP./CFM	KW	REMARKS
UH-1	QMARK	MUH-05-81	208/3/60	13.8	17BTH/350	5	1 2

1 PROVIDE WITH THERMOSTAT AND MOUNTING BASKETS.
 2 MOUNT MAXIMUM 8'-0" ABOVE FINISH FLOOR.

PACKAGE ROOFTOP UNIT SCHEDULE

UNIT DESIGNATION	RTU-1 (BAR & BAR DINING)	RTU-2 (WAITING & DINING)	RTU-3 (KITCHEN)
MANUFACTURER/MODEL #	TRANE YSK150A350H	TRANE YSK150A350H	TRANE YSK150A350H
RATED COOLING (BTU/TONS)	146,900 TC/106,960 SC / 12.5	146,900 TC/106,960 SC / 12.5	146,900 TC/106,960 SC / 12.5
COOLING STAGES (CHECK ONE)	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4
NOMINAL SUPPLY CFM/ HP BLOWER MOTOR	4,400 CFM/ 4.6 HP	4,400 CFM/ 4.6 HP	4,400 CFM/ 4.6 HP
OA MINI/ ESP	1,050 CFM/ 1.0	1,050 CFM/ 1.0	1,025 CFM/ 1.0
CONDENSER E.A.T. (d.b.)	95.0°F db	95.0°F db	95.0°F db
EVAPORATOR E.A.T. (d.b./w.b.)	80°F db/ 67°F wb	80°F db/ 67°F wb	80°F db/ 67°F wb
COOLING EFFICIENCY (E.E.R./IEER)	10.8	10.8	10.8
HEATING (INPUT/OUTPUT MBH)	240/175 IN/ 202.5/141.8 OUT	240/175 IN/ 202.5/141.8 OUT	240/175 IN/ 202.5/141.8 OUT
AFUE %	80	80	80
HEATER WARRANTY	10 YEAR MIN.	10 YEAR MIN.	10 YEAR MIN.
UNIT ELEC. V/PH/CA/MOCP	208V / 3P / 73 / 100	208V / 3P / 73 / 100	208V / 3P / 73 / 100
TOTAL UNIT WEIGHT (AS SPECIFIED)	1600 LBS	1600 LBS	1600 LBS
STANDARD EQUIPMENT, OPTIONS AND ACCESSORIES	1 THRU 11	1 THRU 11	1 THRU 4, 6 THRU 11

STANDARD EQUIPMENT, OPTIONS AND ACCESSORIES*

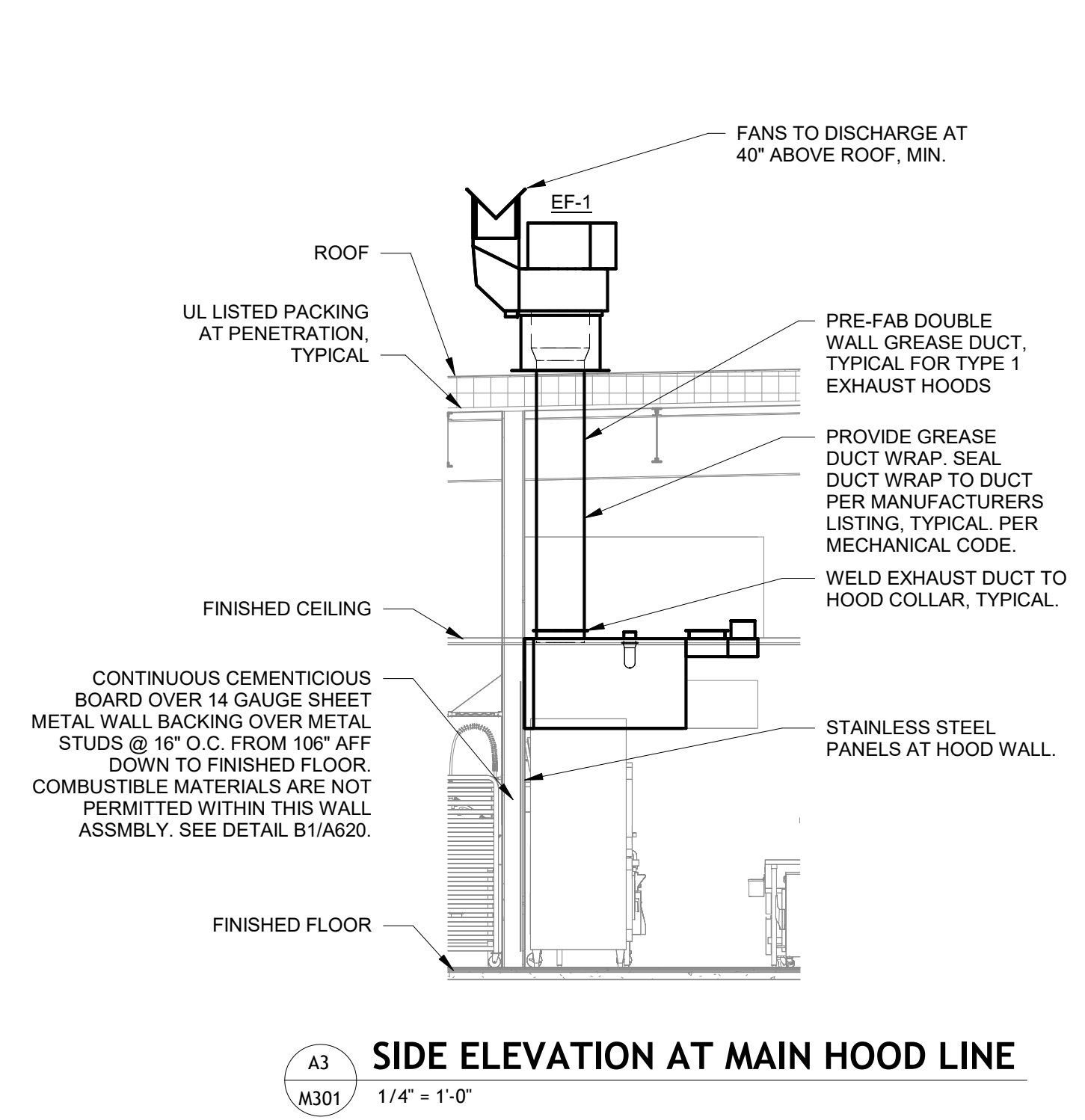
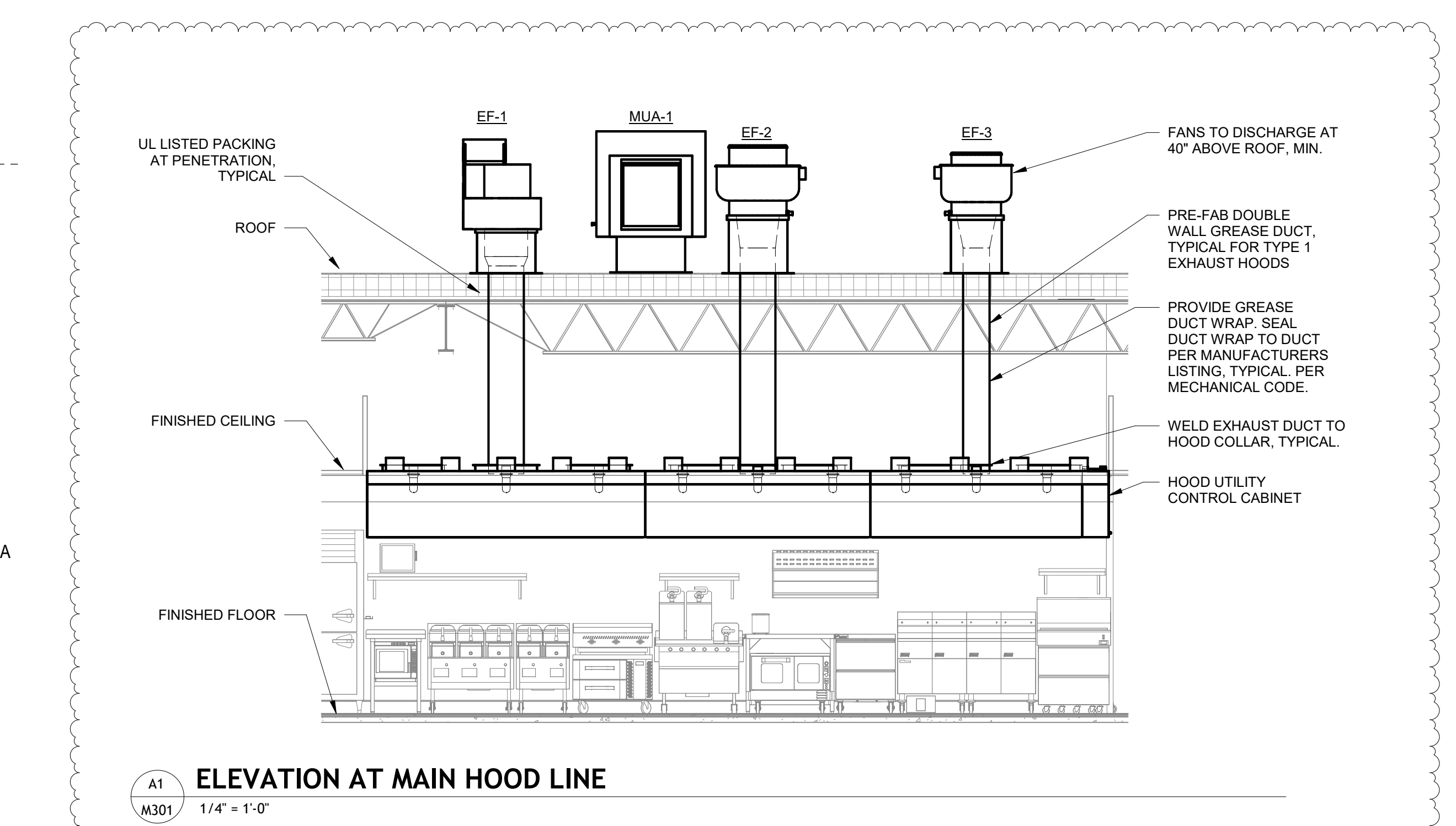
1 FULL PERIMETER ROOF CURB, PER MANUFACTURERS RECOMMENDATIONS	6 SUPPLY AIR DUCT DETECTOR FOR UNIT SHUT DOWN, PER AHJ.	10 PROVIDE ROOFTOP UNIT WITH A CONDENSATE DRAIN PAN FLOAT SWITCH THAT WILL SHUT DOWN PRIOR TO CONDENSATE DRAIN PAN OVERFLOW. SHALL SEND A SIGNAL TO THERMOSTAT FOR SERVICE.
2 OUTSIDE AIR INTAKE COVER	7 FACTORY INSTALLED DISCONNECT SWITCH	11 HAIL GUARD.
3 DUCT FLANGE	8 FRESH AIR TEMPERING KIT (ENABLE DEVICE & INSTALL SENSOR)	
4 ECONOMIZER W/ENTHALPY CONTROL & POWERED EXHAUST	9 FACTORY INSTALLED 115VOLT GFI RECEPTACLE (FIELD WIRING)	
5 HUMIDITROL OPTION W/ CONTROLS (HOT GAS HEAT LIMITED TO 50%)		

*ACCESSORIES MAY VARY. CONTACT TRANE NATIONAL ACCOUNTS LISTED FOR ITEMS FURNISHED.

ENVIRONMENTAL CONDITIONING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	COOLING CAPACITY MAX-MIN (MBH)	HEATING CAPACITY MAX-MIN (MBH)	CFM	INDOOR ELEC VOLT/PHASE	FLA	OUTDOOR ELEC VOLT/PHASE	MCA/MOCP	LIQUID	SUCTION	WEIGHT INDOOR/OUTDOOR	REMARKS
ECU-1/CU-1	MITSUBISHI	PLA-A36PUZ-A36	36-16	42-18	980	208/1	208/1	25/30	3/8"	3/8"	5/8"	56/214	1-4

NOTES:
 1. PROVIDE THE FOLLOWING ACCESSORIES: WIRED CONTROLLER, INTEGRAL CONDENSATE PUMP, LOW AMBINET KIT, 24" TALL EQUIPMENT STAND.
 2. COOLING CAPACITY SCHEDULED INCLUDES EFFECTS OF FAN MOTOR HEAT.
 3. REFRIGERANT PIPING SIZES AND ROUTES TO BE REVIEWED WITH MANUFACTURER PRIOR TO INSTALLATION.
 4. HEATING CAPACITY BASED ON 47 DEG. F AMBIENT CONDITIONS.



DUCT HANGER DETAILS

MAXIMUM HALF OF DUCT PERIMETER	PAIR @ 10 FT. SPACING		PAIR @ 8 FT. SPACING	
	STRAP	WIRE/ ROD	STRAP	WIRE/ ROD
P = 30"	1"x22 GA.	10 GA. (.135")	1"x22 GA.	10 GA. (.135")
P = 72"	1"x18 GA.	3/8"	1"x20 GA.	1/4"
P = 96"	1"x16 GA.	3/8"	1"x18 GA.	3/8"
P = 120"	1-1/2"x16 GA.	1/2"	1"x16 GA.	3/8"

MINIMUM HANGER SIZE FOR ROUND DUCT

DIA.	MAX. SPACING	WIRE DIA.	ROD STRAP
10" DN	12'	ONE 12 GA.	1/4"
11"-18"	12'	TWO 12 GA.	1/4"
19"-24"	12'	TWO 10 GA.	1/4"
25"-36"	12'	TWO 8 GA.	3/8"
37"-60"	12'	TWO 3/8"	TWO 1/2" DIA.
51"-60"	12'	TWO 3/8"	TWO 1"x18 GA.
61"-84"	12'	TWO 3/8"	TWO 1"x16 GA.

NOTES:
 1. DIMENSIONS OTHER THAN GAUGE ARE IN INCHES.
 2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB./ SF INSULATION WEIGHT & NORMAL REINFORCEMENT & TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
 3. STRAPS ARE GALVANIZED STEEL.
 4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM, EXCEPT THAT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.
 5. 12, 10 OR 8 GA. WIRE IS STEEL OR BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED TYPE.

NOTES:
 1. STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL OTHERS ARE ALTERNATIVES.
 2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS & JOINT SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

AIR BALANCE SCHEDULE

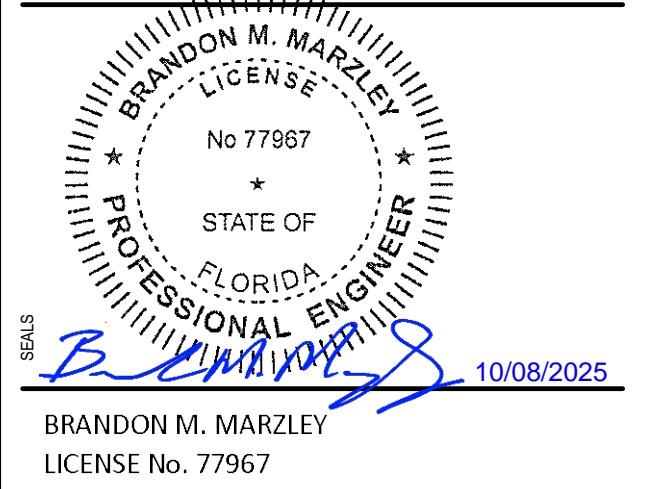
Mark	RETURN AIR FLOW	OUTSIDE AIR FLOW	SUPPLY AIR FLOW	EXHAUST AIR FLOW	NET AIR FLOW
EF-1	0 CFM	0 CFM	0 CFM	2,415 CFM	-2,415 CFM
EF-2	0 CFM	0 CFM	0 CFM	1,915 CFM	-1,915 CFM
EF-3	0 CFM	0 CFM	0 CFM	1,480 CFM	-1,480 CFM
EF-4	0 CFM	0 CFM	0 CFM	1,050 CFM	-1,050 CFM
EF-5	0 CFM	0 CFM	0 CFM	450 CFM	-450 CFM
MUA-1	0 CFM	4,880 CFM	0 CFM	0 CFM	4,880 CFM
RTU-1	3,350 CFM	1,050 CFM	4,400 CFM	0 CFM	1,050 CFM
RTU-2	3,350 CFM	1,050 CFM	4,400 CFM	0 CFM	1,050 CFM
RTU-3	3,375 CFM	1,025 CFM	4,400 CFM	0 CFM	1,025 CFM
TOTAL	10,075 CFM	8,005 CFM	13,200 CFM	7,310 CFM	695 CFM

OUTDOOR AIR CALCULATION

BAR	180 NET SF 1000	x 100 = 18 PEOPLE	18 x 7.5/ 0.8 = 169 CFM 180 x .18/ 0.8 = 41 CFM
BAR DINING	840 SF 1000	x 70 = 59 PEOPLE	59 x 7.5/ 0.8 = 554 CFM 840 x .18/ 0.8 = 189 CFM
VESTIBULE	50 SF		40 x .06/ 0.8 = 4 CFM
WAITING	165 SF 1000	x 30 = 5 PEOPLE	5 x 7.5/ 0.8 = 47 CFM 165 x .06/ 0.8 = 12 CFM
DINING	1280 SF 1000	x 70 = 88 PEOPLE	88 x 7.5/ 0.8 = 825 CFM 1280 x .18/ 0.8 = 284 CFM
WALKWAY	60 SF		60 x .06/ 0.8 = 5 CFM
CARRY-OUT	108 SF		108 x .06/ 0.8 = 8 CFM
			TOTAL OA REQUIRED = 2138 CFM TOTAL OA PROVIDED THRU RTU-2 = 2140 CFM
KITCHEN	1158 NET SF		1158 x 0.7/ 0.8 = 1014 CFM
OFFICE	55 SF 1000	x 5 = 1 PERSON	1 x 5/ 0.8 = 6 CFM 55 x .06/ 0.8 = 4 CFM
			TOTAL OA REQUIRED = 1024 CFM TOTAL OA PROVIDED THRU RTU-3 = 1025 CFM

OUTDOOR AIR VENTILATION FORMULA:
 BREATHING ZONE AREA (Az) X OCCUPANT DENSITY / 1000 SF = OCCUPANTS
 OCCUPANTS X PEOPLE OUTDOOR AIR RATE CFM/PERSON (Rp) = CFM
 CFM / ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) = CFM (1)
 BREATHING ZONE AREA (Az) X AREA OUTDOOR AIR RATE (Ra) = CFM
 CFM / ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) = CFM (2)
 (1) + (2) = TOTAL CFM REQUIRED FOR THAT ZONE

KITCHEN OUTDOOR AIR: BREATHING ZONE AREA (Az) X 0.7 CFM PER SQ. FT = CFM
 CFM / ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) = TOTAL CFM REQUIRED



BLOOMIN BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE #2044
 16323 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:

08/14/2023	ISSUED FOR PERMIT
04/26/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
10/04/2024	PROTOTYPE UPDATES
10/07/2025	KITCHEN EQUIPMENT UPDATES

PRINCIPAL IN CHARGE: BW
 PROJECT ARCHITECT: PH
 DRAWN BY: DJ

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NO. PROJ. NO.
 M301 20230231.02

This item has been digitally signed and sealed by B. Marzley on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

M301

TRANE NATIONAL ACCOUNTS EQUIPMENT PACKAGE

BLOOMIN BRANDS (OWNER) HAS A NATIONAL ACCOUNT AGREEMENT WITH TRANE FOR BUNDLED SOLUTIONS. THE ROOFTOP UNITS, VAV, VFDs, FANS and SPLIT SYSTEMS ARE AN **OWNER FURNISHED ITEM**. ASSIGNED TO THE INSTALLING CONTRACTOR. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR RECEIVING AND STORING EQUIPMENT, PROPER INSTALLATION, STARTUP AND ONE YEAR PARTS & LABOR WARRANTY.

FOR COMPLETE INFORMATION ON THE FOLLOWING PACKAGE OF EQUIPMENT CONTACT TRANE NATIONAL ACCOUNTS BLOOMIN@TRANE.COM

ANY CHANGES OR VARIATIONS TO THE ORIGINAL EQUIPMENT PACKAGE DESCRIBED BELOW THAT WOULD AFFECT THE HVAC EQUIPMENT PACKAGE SHOULD BE BROUGHT TO THE ATTENTION OF THE ACCOUNT COORDINATOR AT TRANE NATIONAL ACCOUNTS AT TIME OF QUOTATION.

HEATING AND COOLING EQUIPMENT PACKAGE:
INCLUDES ALL ROOFTOP AIR CONDITIONERS (INCLUDING CURBS), SPLIT SYSTEMS, etc. AS SPECIFIED ON THE PLANS.

CONTROLS PACKAGE:
INCLUDES PROGRAMMABLE T-STATS (OR NOMAD CONTROLS).

NOTE: ORDERING PROCEDURES

TRANE NATIONAL ACCOUNTS DEPARTMENT BLOOMIN@TRANE.COM WILL ORDER EQUIPMENT AND COORDINATE SHIPMENT WITH THE SUCCESSFUL HVAC CONTRACTOR. THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR DELIVERY COORDINATION, RECEIVING, INSTALLATION AND COMPLETE 1st YEAR WARRANTY, AS DESCRIBED IN THE SPECIFICATIONS.

NOTE: EQUIPMENT START-UP INSTRUCTION

INSTALLING CONTRACTOR IS RESPONSIBLE FOR RUNNING THE UNITS & MAINTAINING THE AIR FILTERS DURING THE CONSTRUCTION PHASE. TWO WEEKS PRIOR TO THE BUILDING TRAINING (COORDINATED AROUND AIR BALANCE), THE CONTRACTOR WILL COORDINATE THE EQUIPMENT VERIFICATION / RUNNING INSPECTION WITH TRANE (1 - 2 DAY VISIT). THE CONTRACTOR MUST PROVIDE ONE TECHNICIAN TO WORK WITH TRANE. TRANE WILL PROVIDE AN OPERATIONAL VERIFICATION FOR EACH ROOFTOP UNIT. UPON COMPLETION, TRANE WILL PROVIDE A WRITTEN REPORT, CERTIFYING PROPER EQUIPMENT STARTUP TO BLOOMIN BRANDS.

HVAC CONTROLS

THERMOSTATS AND SENSORS

- THERMOSTATS SHALL BE HONEYWELL 178B1F OR TRANE C0STAT02AEEL. DIGITAL 7-DAY PROGRAMMABLE WITH 4 MODES PER DAY AND AT LEAST THE SAME NUMBER OF CAPACITY STAGES AS THE RTU.
- REMOTE SENSORS SHALL BE FLUSH-MOUNT OR "BUTTON" TYPE, WITH NO VISUAL DISPLAYS OR ADJUSTMENT KNOBS OF ANY KIND, AND SHALL BE MOUNTED 48"-60" AFF. COORDINATE EXACT HEIGHT WITH GENERAL CONTRACTOR.
- THERMOSTATS SHALL BE LOCATED IN THE OFFICE AS SHOWN ON THE PLANS. REMOTE SENSORS LOCATED IN THE SPACES AS SHOWN ON THE PLAN.
- PROVIDE DUCT MOUNTED HUMIDITY SENSORS FOR RTU-1 AND RTU-2. HUMIDITY SENSING SHALL BE USED FOR REFRIGERANT REHEAT CONTROL.
- TEMPERATURE AND HUMIDITY SENSORS SHALL BE BY TRANE OR HONEYWELL.

RTU CONTROLS

- THE FOLLOWING HIGHLIGHT SEVERAL KEY POINTS, WHICH ARE DEPICTED IN THE "HOOD INTERLOCK DIAGRAM" AND "CONTROL WIRING DIAGRAM"
 - WHEN THE HOODS ARE "ON", THE RTU FANS RUN CONTINUOUSLY.
 - WHEN THE HOODS ARE "ON", THE OUTDOOR EXHAUST AIR DAMPER IS FORCED OPEN BY ENERGIZING THE "OCCUPIED" TERMINAL ON THE RTU. THE FACTORY WIRING WITHIN THE RTU, THEN OPENS THE DAMPER TO A POSITION SET BY THE TEST AND BALANCE CONTRACTOR.
 - WHEN THE HOODS ARE "OFF", THE THERMOSTAT CONTROLS THE FAN OPERATIONS.
 - AT ALL TIMES, THE THERMOSTAT CONTROLS THE STAGING OF THE COOLING AND HEATING, TO MEET THE SETPOINT.
 - THE ONLY USE FOR THE THERMOSTAT PROGRAMMING WILL BE TO ESTABLISH TEMPERATURE SETPOINTS FOR VARIOUS TIMES DURING THE DAY. IT IS VERY IMPORTANT TO NOTE THAT THE "OCCUPIED/UNOCCUPIED" STATUS OF THE THERMOSTAT WILL HAVE NO BEARING ON THE OUTSIDE AIR DAMPER POSITION, THE ONLY CONNECTION TO THE "OCCUPIED" TERMINAL ON THE ROOFTOP SHALL BE AS SHOWN IN THE "CONTROL WIRING DIAGRAM".

HOOD AND FAN CONTROLS

- THE HOOD MANUFACTURER SHALL PROVIDE A FACTORY-MOUNTED CONTROL SYSTEM FOR ENERGIZING THE HOOD EXHAUST FANS AND MAKEUP FAN.
 - THERE SHALL BE ONE CONTROL PANEL FOR THE HOODS.
 - FACTORY SWITCHES SHALL BE PROVIDED, ON THE FRONT OF THE HOOD.
 - THE HOOD SHALL ALSO HAVE A CONTROL PANEL IN THE EXHAUST COLLARS, THAT SHALL AUTOMATICALLY ENERGIZE THE FANS UPON THE SENSING OF HEAT FROM COOKING OPERATIONS.
- THE HOOD CONTROL PANEL SHALL HAVE A LOW VOLTAGE DRY CONTACT TO INTERLOCK WITH THE BUILDING'S HVAC SYSTEM, AS SHOWN IN THE "HOOD INTERLOCK DIAGRAM" AND THE "CONTROL WIRING DIAGRAM". THE PURPOSE OF THIS INTERLOCK IS TO ENSURE POSITIVE BUILDING AIR BALANCE WHEN THE HOOD FANS ARE RUNNING.
- GREASE EXHAUST FANS SHALL RUN WHENEVER THE CORRESPONDING HOOD FIRE EXTINGUISHING SYSTEM IS ACTIVATED. THE FAN SHALL START IF THE HOOD IS NOT IN OPERATION, AND THE FAN SHALL CONTINUE TO RUN IF THE HOOD IS IN OPERATION. THE MAKE-UP AIR UNIT SHALL SHUT DOWN WHENEVER THE HOOD FIRE EXTINGUISHING SYSTEM IS ACTIVATED.

STAND ALONE CONTROLS

- THE FOLLOWING CONTROLS ARE NOT PART OF HOOD CONTROL SYSTEM.
 - EF-4 SHALL BE INTERLOCKED WITH THE DISHWASHER.
 - EF-5 SHALL BE INTERLOCKED WITH THE LIGHTS IN THE RESTROOM.

SMOKE DETECTORS

- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL DUCT-MOUNTED SMOKE DETECTORS IN THE SUPPLY DUCT OF EACH RTU.
- THE SMOKE DETECTORS SHALL BE COORDINATED WITH THE FIRE ALARM CONTRACTOR, TO ENSURE COMPATIBILITY.
- IF A FIRE ALARM SYSTEM IS PROVIDED, ALL INTERCONNECTING WIRING BETWEEN THE SMOKE DETECTORS AND THE FIRE ALARM PANEL SHALL BE BY THE FIRE ALARM CONTRACTOR.

STARTERS AND DISCONNECTS

- ALL RTU DISCONNECTS ARE FACTORY-INSTALLED.
- ALL FAN DISCONNECTS ARE FACTORY-INSTALLED.
- DISCONNECTS FOR ALL OTHER EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- STARTERS FOR THE HOOD EXHAUST AND MAKEUP UNIT, SHALL BE PROVIDED BY THE HOOD MANUFACTURER, AND LOCATED IN THE HOOD'S UTILITY CABINET.

MISCELLANEOUS

- PROVIDE A LAMINATE PLACARD WITH THE EQUIPMENT TAG FOR EACH PIECE OF SCHEDULED EQUIPMENT AND FOR EACH THERMOSTAT (IN MANAGER'S OFFICE). ALTERNATELY, EQUIPMENT MAY BE STENCILED. EACH THERMOSTAT PLACARD SHALL ALSO INDICATE THE AREA OF THE BUILDING SERVED.
- LOCATE A LAMINATED COPY OF THE "HOOD INTERLOCK DIAGRAM", THE "CONTROL WIRING DIAGRAM", & THE CONTROLS NOTES ON THE INSIDE OF THE CONTROLS ACCESS PANEL OF EACH RTU. DOCUMENT ALL AS BUILT MODIFICATIONS AND/OR SPECIFIC UNIT CONFIGURATION ONES AS NECESSARY.
- LOW VOLTAGE (24V) CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL SUBCONTRACTOR, WHERE REQUIRED. THE ELECTRICAL SUBCONTRACTOR SHALL PROVIDE CONDUIT FOR ALL CONTROL WIRING, AS COORDINATED WITH THE MECHANICAL SUBCONTRACTOR. ALL CONDUIT SHALL BE RUN SQUARE WITH BUILDING LINES.
- LINE VOLTAGE (120V AND HIGHER) CONTROL AND POWER WIRING AND CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL SUBCONTRACTOR.

GENERAL NOTES:

- ALL RECTANGULAR, ROUND AND FLEXIBLE DUCTS SHALL BE SIZED AS SHOWN ON THESE DRAWINGS. MINIMUM INTERNAL DIMENSIONS ARE GIVEN.
- ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTS ARE SIZED FOR AIR VOLUME AND STATIC PRESSURE DROP WITHOUT INTERIOR INSULATION. SHOULD INTERIOR INSULATION BE USED, THE CONTRACTOR SHALL INCREASE THE DUCT SIZE ACCORDINGLY.
- ALL SUPPLY, RETURN AND OUTSIDE AIR DUCTS SHALL BE INSULATED.
- ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO TRUNK OR BRANCH DUCTS WITH A MINIMUM OF THREE SHEET METAL SCREWS AT EACH CONNECTION AND TAPED TO PROVIDE TO THE MP GENERAL NOTES ON SHEET MP200.
- INSTALL TURNING VANES IN ALL 90° DUCT ELBOWS AND AT ALL DUCT "TEES".
- INSTALL ADJUSTABLE AIR VOLUME EXTRACTORS AND ALL BRANCH TO MAIN DUCT CONNECTIONS.
- HOOD FIRE PROTECTION SYSTEMS SHALL BE BY A LICENSED FIRE PROTECTION CONTRACTOR (REFER TO KITCHEN HOOD GENERAL NOTES).
- ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING TO REFERENCED MECHANICAL CODE AND SMACNA STANDARDS. REFER TO THE MP GENERAL NOTES ON SHEET MP200.
- MANUFACTURERS MINIMUM CLEARANCE RECOMMENDATIONS SHALL BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- THE CONTRACTOR SHALL CAREFULLY COORDINATE THE LOCATION OF ALL DUCTS, GRILLES, DIFFUSERS, ETC. WITH THE CEILING GRID AND THE PLUMBING AND FRAMING CONTRACTORS.
- ALL KITCHEN RETURN AIR GRILLES SHALL BE EASILY REMOVABLE FOR CLEANING.
- ALL CONTROL WIRING SHALL BE BY THE HVAC CONTRACTOR. CONTROL WIRING SHALL BE SHIELDED CABLE TO PREVENT ANY ELECTRICAL INTERFERENCE.
- ALL POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL CAREFULLY COORDINATE ALL THERMOSTAT LOCATIONS WITH INTERIOR FINISHES.
- THE CONTRACTOR SHALL COORDINATE FULLY WITH ALL OTHER TRADES.
- THE CONTRACTOR SHALL SUPPLY FOR APPROVAL SIX (6) COPIES OF SHOP DRAWINGS TO COMPLETELY IDENTIFY THE QUALITY OF MATERIALS AND/OR EQUIPMENT INTENDED FOR INSTALLATION. THERE WILL BE NO DRAW UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND REVIEWED BY ARCHITECT/ENGINEER.
- THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIM/HERSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS THESE DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
- ALL ROUND TAKE-OFFS FROM RECTANGULAR DUCTS SHALL BE A DAMPERS EXPRESS COMMERCIAL AIR TITE SPIN IN MODEL ATCS22 W/ DAMPER OR APPROVED EQUAL.

GREASE DUCT TESTING

PERFORM THE FOLLOWING TESTS PER THE REFERENCED MECHANICAL CODE, REFER TO THE MP GENERAL NOTES ON SHEET MP200:

GREASE DUCT TESTS - PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ASSEMBLED IN THE FIELD AND SHALL EXCLUDE FACTORY WELDS.

A LIGHT TEST SHALL BE PERFORMED BY PASSING A LAMP HAVING A POWER RATING OF NOT LESS THAN 100 WATTS THROUGH THE ENTIRE SECTION OF DUCTWORK TO BE TESTED. THE LAMP SHALL BE OPERATED SO AS TO EMIT LIGHT EQUALLY IN ALL DIRECTIONS PERPENDICULAR TO THE DUCT WALLS. A TEST SHALL BE PERFORMED FOR THE ENTIRE DUCT SYSTEM, INCLUDING THE HOOD-TO-DUCT CONNECTION. THE DUCT WORK SHALL BE PERMITTED TO BE TESTED IN PANELS, PROVIDED THAT EVERY JOINT IS TESTED. FOR LISTED FACTORY-BUILT GREASE DUCTS, THIS TEST SHALL BE LIMITED TO DUCT JOINTS ASSEMBLED IN THE FIELD AND SHALL EXCLUDE FACTORY WELDS.

PERFORMANCE TEST - A PERFORMANCE TEST SHALL BE CONDUCTED UPON COMPLETION AND BEFORE FINAL APPROVAL OF THE INSTALLATION OF A VENTILATION SYSTEM SERVING COMMERCIAL COOKING APPLIANCES. THE TEST SHALL VERIFY THE RATE OF EXHAUST AIRFLOW REQUIRED BY SECTION 507, MAKEUP AIRFLOW REQUIRED BY SECTION 508 AND PROPER OPERATION AS SPECIFIED IN THIS CHAPTER. THE PERMIT HOLDER SHALL FURNISH THE NECESSARY TEST EQUIPMENT AND DEVICES REQUIRED TO PERFORM THE TESTS.

CAPTURE AND CONTAINMENT TEST - THE PERMIT HOLDER SHALL VERIFY CAPTURE AND CONTAINMENT PERFORMANCE OF THE EXHAUST SYSTEM. THIS FIELD TEST SHALL BE CONDUCTED WITH ALL APPLIANCES UNDER THE HOOD AT OPERATING TEMPERATURES, WITH ALL SOURCES OF OUTDOOR AIR PROVIDING MAKEUP AIR FOR THE HOOD OPERATING AND WITH ALL SOURCES OF RECIRCULATED AIR PROVIDING CONDITIONING FOR THE SPACE IN WHICH THE HOOD IS LOCATED OPERATING. CAPTURE AND CONTAINMENT SHALL BE VERIFIED VISUALLY BY OBSERVING SMOKE OR STEAM PRODUCED BY ACTUAL OR SIMULATED COOKING, SUCH AS WITH SMOKE CANDLES, SMOKE PUFFERS, ETC.

KITCHEN HOOD GENERAL NOTES

KITCHEN HOOD AND FIRE SUPPRESSION INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. KITCHEN EQUIPMENT SUPPLIER TO PROVIDE KITCHEN HOODS, FIRE SUPPRESSION SYSTEMS, KITCHEN HOOD EXHAUST AND SUPPLY FANS. GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SUPPLIED KITCHEN EQUIPMENT. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER.

ROOM SENSOR INSTALLATION: A ROOM TEMPERATURE SENSOR IS PROVIDED WITH THE HOOD STARTER PANEL. INSTALL IN A SAFE LOCATION, FREE OF INFLUENCE FROM EXTERNAL HEAT SOURCES. LOCATION SHALL BE INDICATIVE OF THE AVERAGE KITCHEN TEMPERATURE AWAY FROM APPLIANCES. THIS SENSOR SHALL BE WIRED BACK TO THE HOOD STARTER PACKAGE AS SHOWN ON THE INSTALLATION SCHEMATIC IN THE HOOD DRAWINGS. PLENUM WIRE IS TYPICALLY SUPPLIED WITH THE STARTER PACKAGE.

DUCT SENSOR INSTALLATION: ONE DUCT SENSOR IS FURNISHED PER HOOD EXHAUST RISER. THE SENSORS ARE SHIPPED FACTORY INSTALLED IN FACTORY ASSEMBLED HOOD RISERS. A 2-WIRE PLENUM RATED THERMISTOR CABLE (1/8 GAUGE TYPICAL) RUN IN CONDUIT, SHOULD BE USED TO WIRE THE SENSORS BACK TO THE CONTROLLER AND LANDED ON CONNECTOR J10 AS INDICATED ON THE INSTALLATION SCHEMATIC IN THE HOOD DRAWINGS. PLENUM WIRE IS TYPICALLY SUPPLIED WITH THE STARTER PACKAGE.

KITCHEN HOOD FIRE SUPPRESSION: KITCHEN HOOD FIRE SUPPRESSION INSTALLATION PROVIDED BY GREASEMASTER. THE HOOD FIRE SUPPRESSION SHOP DRAWINGS SUBMIT THE HOOD FIRE SUPPRESSION SHOP DRAWINGS SHALL BE SUBMITTED TO AGENCY HAVING JURISDICTION FOR APPROVAL & PERMIT PRIOR TO INSTALLATION AS REQUIRED.

SYSTEM DESCRIPTION: PROVIDE A PRE-ENGINEERED, WET CHEMICAL CARTRIDGE OPERATED TYPE FIRE SUPPRESSION SYSTEM. IT SHALL BE A FIXED NOZZLE AGENT DISTRIBUTION NETWORK, AND SHALL BE UL LISTED (UL300). THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND REMOTE ACTUATION. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 96 AND AUTHORITY HAVING JURISDICTION. DISCHARGE NOZZLES WILL PROVIDE COVERAGE OF, BUT NOT LIMITED TO, THE HOOD AREA & EXHAUST DUCT. FURNISH ELECTRIC OPERATED SHUT OFF VALVE.

COORDINATE GAS VALVE AND SHUNT TRIP INSTALLATION WITH PLUMBING AND ELECTRICAL DESIGN AND INSTALLATION.

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GC	GENERAL CONTRACTOR
AHJ	ATHORITY HAVING JURISDICTION	MC	MECHANICAL CONTRACTOR
CD	CONDENSATE DRAIN	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MUA	MAKE-UP AIR
CLG	CLEARING	N/A	NOT TO SCALE
CO	CARBON MONOXIDE	OA	OUTSIDE AIR
CO2	CARBON DIOXIDE	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	REF	REFERENCE
EF	EXHAUST FAN	RTU	ROOFTOP UNIT
G	GAS	SP	STATIC PRESSURE
GA	GAUGE	SS	STAINLESS STEEL
		TYP	TYPICAL

THE EXCEPTION WILL BE DEFERRED TESTS WHICH CANNOT BE PERFORMED AT THE TIME OF THE REPORT PREPARATION DUE TO CLIMATE CONDITIONS.

FINAL COMMISSIONING REPORT

A FINAL COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED BY AN APPROVED AGENCY PER IECC C408.2.4 WHICH SHALL BE DELIVERED TO THE OWNER AND SHALL INCLUDE THE FOLLOWING:

- RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
- DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
- FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

DUCTWORK NOTES

SHEET METAL WORK

- EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL SUPPLY AND RETURN AIR DUCTWORK AND OTHER SHEET METAL WORK SHALL BE 60G GALVANIZED SHEET STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC., DUCT CONSTRUCTION STANDARDS.
- ALL DUCTWORK SHALL BE SEALED TO COMPLY WITH THE LATEST EDITION OF THE REFERENCED ENERGY CONSERVATION AND MECHANICAL CODES. PRESSURE CLASSIFICATION 20 WIG, SEAL CLASS B REFER TO SMACNA FOR SEAL CLASS DETAILS). REFER TO THE MP GENERAL NOTES ON SHEET MP200.
- DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH OTHER TRADES IS REQUIRED.
- ALL DUCT SIZES SHOWN ARE INSIDE. FREE AREA DIMENSIONS REQUIRED FOR PROPER AIRFLOW, UNLESS SPECIFICALLY INDICATED, ALL DUCT TRANSITIONS SHALL BE SMOOTH AND GRADUAL WITH MAXIMUM DIVERGENT ANGLE OF 15°.
- ALL SHEET METAL DUCTWORK WITHIN 10' OF THE AIR HANDLING UNIT SHALL BE LINED WITH DUCT LINER, APPLY LINER IN ACCORDANCE WITH MANUFACTURER'S AND SMACNA RECOMMENDATIONS. ALL TRANSVERSE EDGES, OR ANY EDGES EXPOSED TO AIRFLOW SHALL BE COATED WITH AN APPROVED DUCT LINER COATING MATERIAL, SUCH AS JOHNS MANVILLE SUPERSEAL PRODUCTS. JOINTS SHALL BE NEATLY BUTTED AND THERE SHALL BE NO INTERRUPTIONS OR GAPS.
- EXPOSED DUCT AND FITTINGS SHALL BE PROVIDED WITH A MILL FINISH ("PAINT GRIP", "ZINC GRIP" OR SIMILAR ETCH TREATMENT) TO ALLOW THE DUCTWORK TO BE PAINTED.
- PROVIDE TURNING VANES IN ALL SQUARE ELBOWS OF SUPPLY DUCTWORK.
- ALL FLEXIBLE DUCTWORK SHALL BE STRETCHED AND SUSPENDED IN ACCORDANCE WITH LOCAL CODE, SUPPORT EVERY 3' WITH 2" WIDE GALVANIZED STEEL BANDS (MAX. SAG 1/8" BETWEEN SUPPORTS). MAXIMUM LENGTH OF DUCT SHALL BE SIX (6) FEET.
- ALL DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE AND TIGHT TO STRUCTURE, UNLESS NOTED OTHERWISE.
- SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER, WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
- PROVIDE VOLUME DAMPER AT CONNECTION OF DIFFUSER BRANCH INCLUDING THOSE CONNECTING TO THE BOTTOM OF MAIN TRUNK.
- NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILING.

HVAC UNIT SPECIFICATIONS

UNITS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR SHALL BE TRANE. ALL UNITS SHALL BE SINGLE PACKAGE TYPE, COMBINATION AIR, TO AIR COOLING AND GAS HEATING. EACH UNIT SHALL BE MOUNTED ON A FULL PERIMETER ROOF CURB. FILTERS IN ALL HVAC UNITS SHALL BE 2" THICK THROWAWAY TYPE. UNITS SHALL BE INSTALLED ON MOUNTING CURB WITH ALL DUCTWORK PENETRATING INSIDE PERIMETER OF CURB. UNITS SHALL BE FURNISHED WITH INTEGRAL STARTERS.

SEQUENCE OF OPERATION

THE MECHANICAL CONTRACTOR SHALL FURNISH ALL REQUIRED COMPONENTS FOR THE FOLLOWING SEQUENCES OF OPERATION FOR EACH HVAC UNIT. DISCONNECTS SHALL BE FURNISHED AND INSTALLED BY THE UNIT MANUFACTURER.

- UNIT SHALL BE STARTED AND STOPPED THROUGH ITS RESPECTIVE THERMOSTAT AND REMOTE TEMPERATURE/HUMIDITY SENSORS FOR RTU-1 & 2. THERMOSTAT & REMOTE TEMPERATURE SENSORS FOR RTU-3.
- THERMOSTATS W/ REMOTE TEMPERATURE/HUMIDITY SENSORS SHALL ENERGIZE COOLING HEATING AND DEHUMIDIFICATION SYSTEMS TO MAINTAIN DESIRED SPACE TEMPERATURE AND HUMIDITY.
- PROVIDE SMOKE DETECTOR IN THE SUPPLY AIR SIDE OF EACH UNIT, WHICH SHALL COMPLETELY SHUT DOWN THE UNIT WHEN SMOKE IS DETECTED. PROVIDE REMOTE TESTING, PER THE REFERENCED BUILDING & MECHANICAL CODES. REFER TO THE MP GENERAL NOTES ON SHEET MP200.
- MC SHALL HOLD (3) TRAINING SESSIONS (SUMMER & WINTER) WITH STORE MANAGER TO INSURE THEIR KNOWLEDGE OF PROPERLY USING THE CONTROLS.

ROOFTOP UNIT NATIONAL ACCOUNT

THE ROOFTOP UNIT ACCESSORIES SHALL BE PURCHASED THROUGH TRANE NATIONAL ACCOUNTS. CONTRACTOR SHALL CONTACT TRANE NATIONAL ACCOUNTS FOR PRICING & PURCHASING INFORMATION, CONTACT KEVIN SCHLEAF AT (407) 488-4258.

KITCHEN HOOD FIRE PROTECTION

KITCHEN HOOD FIRE PROTECTION SHALL BE AS INDICATED ON HOOD FIRE PROTECTION PLAN AND INTERLOCKED WITH THE EMERGENCY GAS VALVE IN THE LINE FEEDING THE GAS COOKING EQUIPMENT. THE VALVE SHALL SHUT DOWN GAS FLOW TO EQUIPMENT UPON ACTIVATION OF THE HOOD FIRE PROTECTION SYSTEM.

O & M MANUALS

THE CONTRACTOR SHALL PROVIDE OPERATIONS AND MAINTENANCE MANUALS TO THE OWNER WITH-IN 90 DAYS OF SYSTEM ACCEPTANCE.

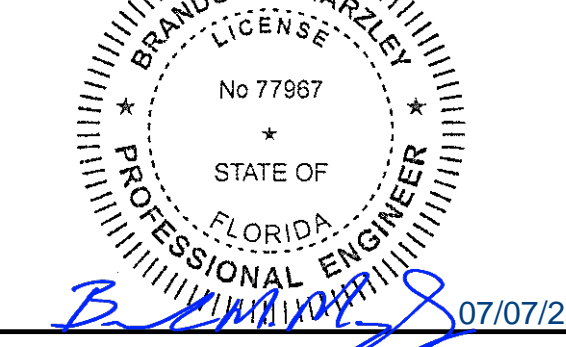
MECHANICAL SYMBOLS LEGEND

	CONDENSATE DRAIN PIPING
	AUXILIARY DRAIN PIPING
	PIPING DOWN
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	VOLUME DAMPER
	FIRE DAMPER (FUSIBLE LINK)
	SMOKE DAMPER
	SMOKE/FIRE DAMPER
	MOTORIZED DAMPER
	DUCT DIMENSION, CLEAR INSIDE
	LINED DUCTWORK
	RECTANGULAR ELBOW WITH TURNING VANES
	90 DEGREE ELBOW DOWN
	90 DEGREE ELBOW UP
	DUCT SIZE TRANSITION
	DIFFUSER OF TYPE & CFM INDICATED
	BLANK OFF AIR FLOW IN THIS DIRECTION
	DIFFUSER WITH INTEGRAL DAMPER
	RETURN EXHAUST GRILLE
	FLEXIBLE DUCT CONNECTION
	RETURN EXHAUST AIR DUCT RISER
	SUPPLY DUCT RISER
	UNDERCUT DOOR 1/2" FOR EXHAUST/MAKEUP
	BACKDRAFT DAMPER
	OPPOSED BLADE DAMPER
	CARBON MONOXIDE DETECTOR
	CARBON DIOXIDE DETECTOR
	OUTSIDE AIR FLOW MEASUREMENT
	SMOKE DETECTOR
	THERMOSTAT
	REMOTE TEMPERATURE SENSOR
	REMOTE TEMPERATURE/HUMIDITY SENSOR
	ANSUL SYSTEM REMOTE PULL STATION
	REMOTE TEST/RESET
	SPLITTER DAMPER

NOTE: NOT ALL SYMBOLS MAY APPEAR ON PLANS.



500 South Main Street, Suite 2031
Akron, OH 44311
330.572.2100 Fax 330.572.2101
LIC. # - 30920



BRANDON M. MARZLEY
LICENSE No. 77967

BLOOMIN BRANDS
OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE #2044
 16322 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:

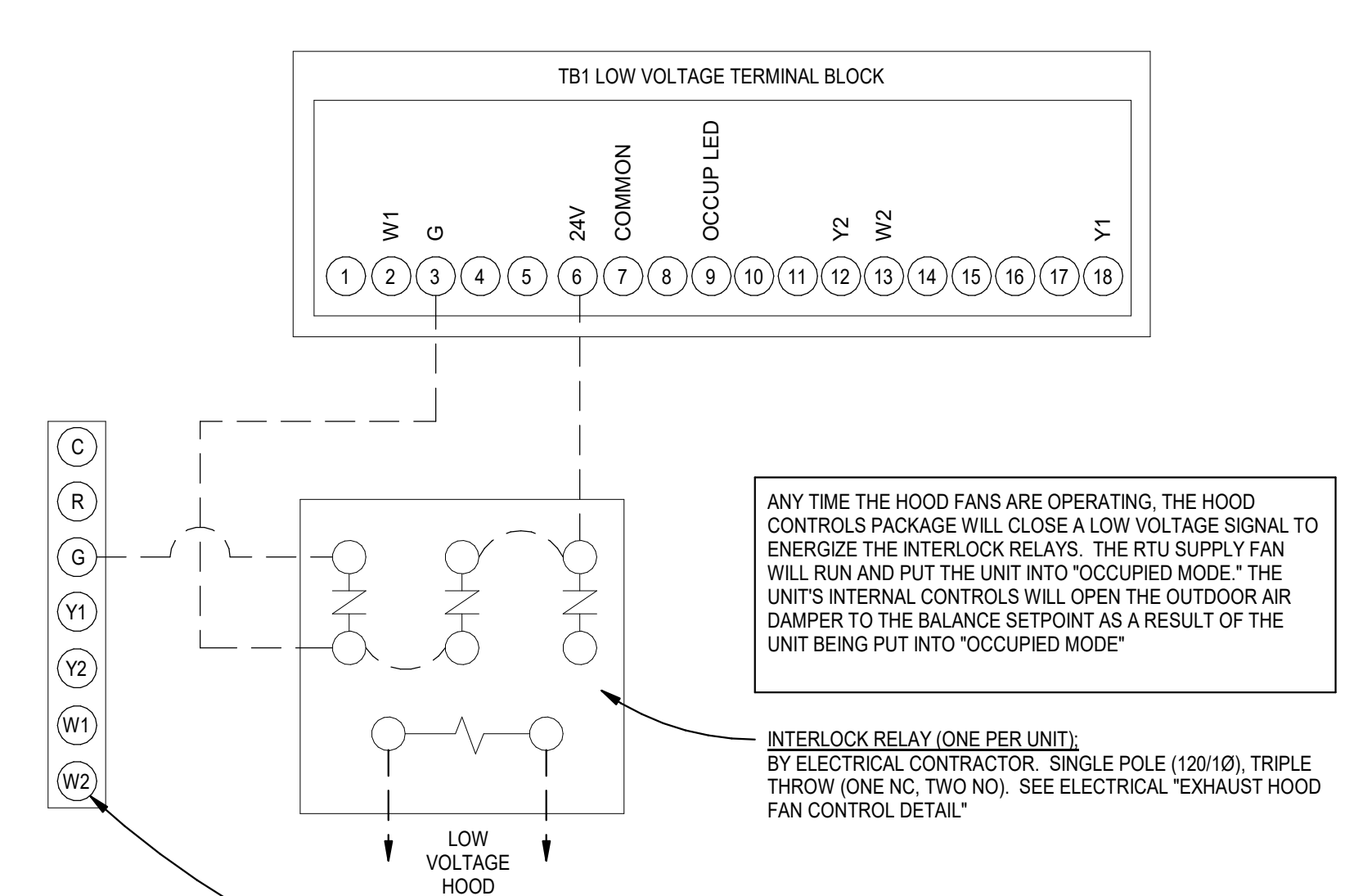
1	08/14/2023	ISSUED FOR PERMIT
1	04/26/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
2	10/04/2024	PROTOTYPE UPDATES

PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

SHEET TITLE:
MECHANICAL
GENERAL NOTES

SHEET NO. PROJ. NO. 2023291.02

M401



CONFIGURATION NOTE:
CONSULT TRANE FOR ANY CHANGES TO RTU CONTROL CONFIGURATIONS.

ROOM THERMOSTAT
NOTE: NEITHER STANDARD HEATING / COOLING CONTROL WIRING NOR REMOTE SENSOR WIRING SHOWN FOR CLARITY.

HVAC CONTROL WIRING DIAGRAM
Full Scale

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

HOOD INFORMATION - JOB#6047076

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA					
1		5430 GSN-2-ACPSP-F	GREASEMASTER	10' 6"	600 DEG	I	HEAVY	230	2415	4"	16"	2415	1730	-0.849"	1980	600	430 SS WHERE EXPOSED	LEFT ALDNE
2		5430 GSN-2-ACPSP-F	GREASEMASTER	8' 6"	450 DEG	I	MEDIUM	225	1915	4"	16"	1915	1372	-0.596"	1570	500	430 SS WHERE EXPOSED	MIDDLE ALDNE
3		5430 GSN-2-ACPSP-F	GREASEMASTER	8' 0"	450 DEG	I	MEDIUM	185	1480	4"	12"	1480	1884	-0.671"	1330	500	430 SS WHERE EXPOSED	RIGHT ALDNE
4		5430 VGS-G-REMI	GREASEMASTER	7' 0"	700 DEG	II	N/A	150	1050	4"	12"	1050	1337	-0.129"	0	0	430 SS 100%	ALDNE ALDNE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCADION	SIZE	TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1		CAPTRATE SOLD FILTER	7	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	WALL MNT	12"x24"x24"					YES	682 LBS
2		CAPTRATE SOLD FILTER	6	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO							YES	562 LBS
3		CAPTRATE SOLD FILTER	5	20"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	RIGHT	12"x54"x30"	TANK FS	4.0/4.0	SC-331110MA	1 LIGHT 1 FAN	YES	872 LBS
4							2	L55 SERIES E26	NO							NO	275 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
3		RISER SENSOR INSTALL 6IN PLEN.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S)				
						TYPE	WIDTH	LENG	DIA	CFM
1	Front	126'	24'	6'	MUA	12"	28"	660	0.166"	
					MUA	12"	28"	660	0.166"	
					MUA	12"	28"	660	0.166"	
					AC	8"	8"	120	0.045"	
					AC	8"	8"	120	0.045"	
					AC	8"	8"	120	0.045"	
2	Front	102'	24'	6'	MUA	12"	28"	785	0.230"	
					MUA	12"	28"	785	0.230"	
					MUA	12"	28"	785	0.230"	
					AC	8"	8"	125	0.049"	
					AC	8"	8"	125	0.049"	
					AC	8"	8"	125	0.049"	
3	Front	108'	24'	6'	MUA	12"	28"	665	0.168"	
					MUA	12"	28"	665	0.168"	
					MUA	12"	28"	665	0.168"	
					AC	8"	8"	125	0.049"	
					AC	8"	8"	125	0.049"	
					AC	8"	8"	125	0.049"	

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCADION	SIZE	UTILITY CABINET(S)				WEIGHT
			FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	
1	WALL MNT	12"x24"x24"					100 LBS

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLD FILTER

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

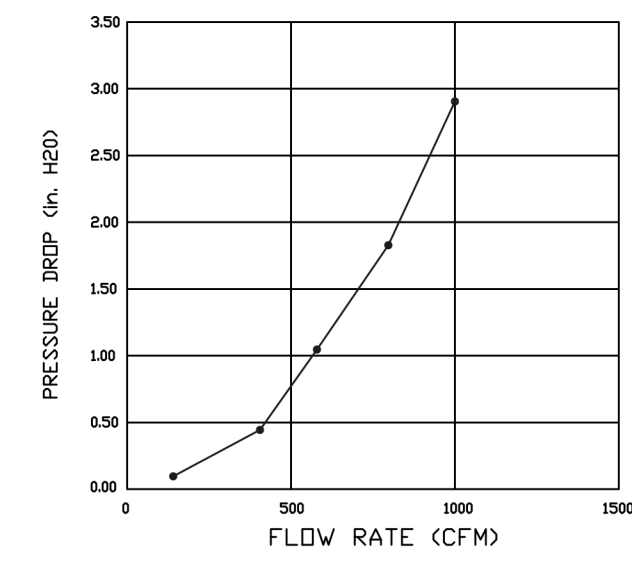
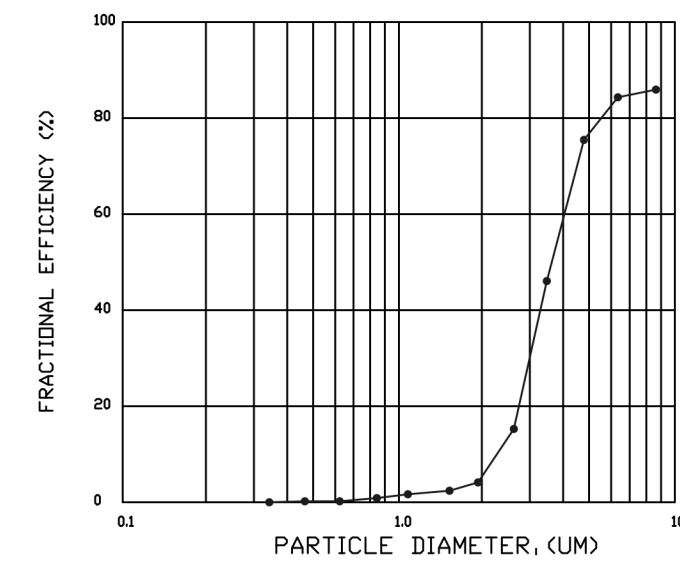
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

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

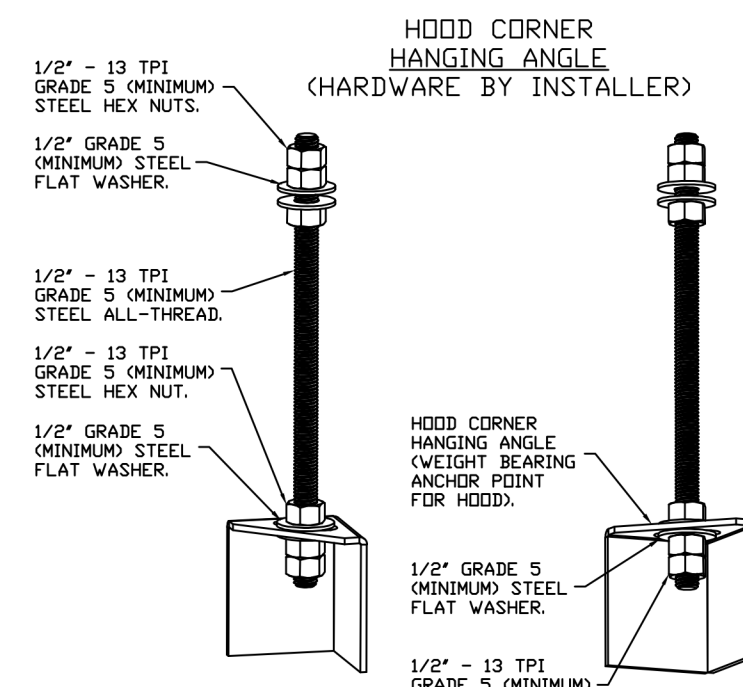
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

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

EFFICIENCY VS. PARTICLE DIAMETER

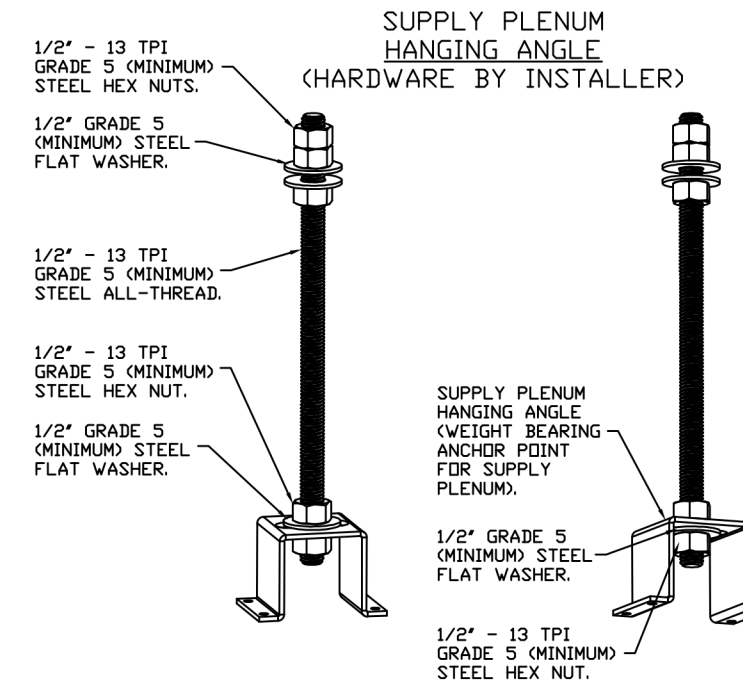


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96,
 NSF STANDARD #2,
 UL STANDARD #1046,
 INT. MECH. CODE (IMC),
 ULC-S645.



ASSEMBLY INSTRUCTIONS

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

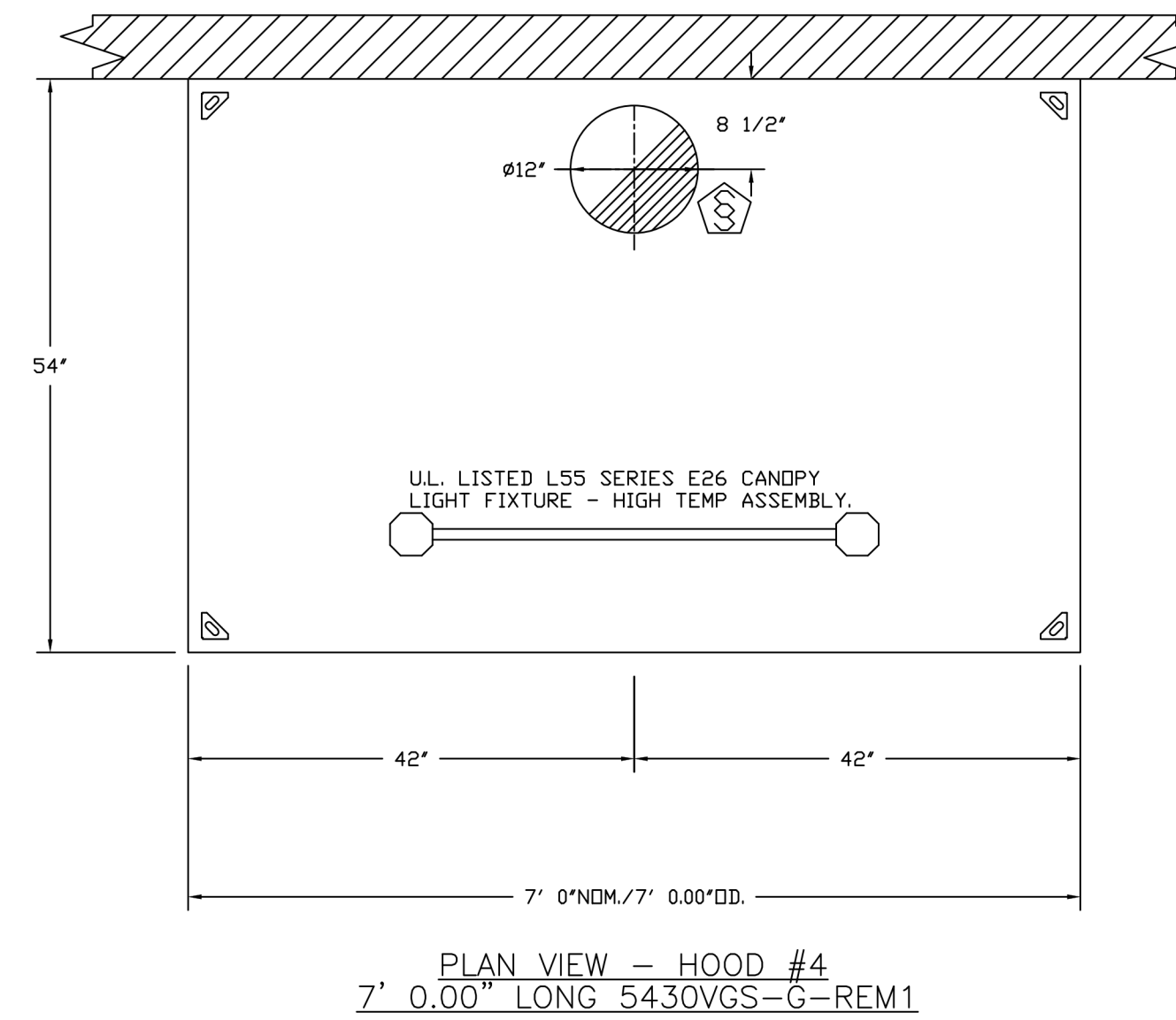


ASSEMBLY INSTRUCTIONS

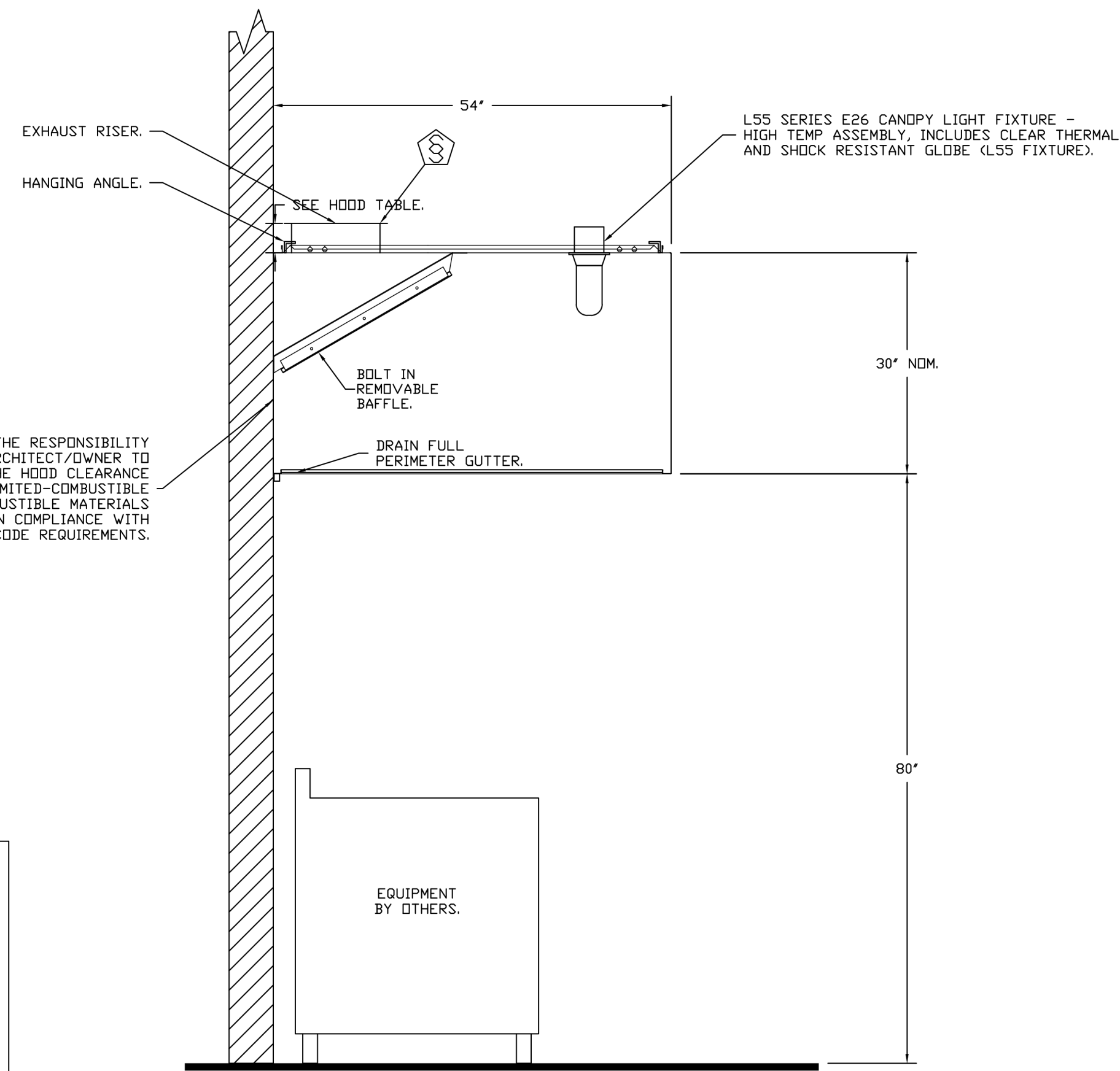
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GREASE MASTER HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
 ETL LISTED FILE# 3054804-001



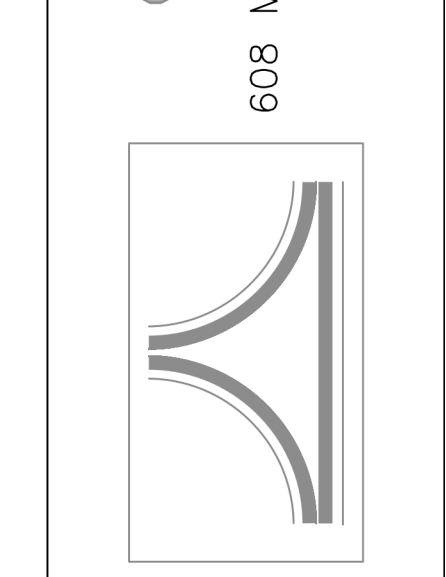
PLAN VIEW - HOOD #4
 7' 0.00" LONG 5430VGS-G-REM1



SECTION VIEW - MODEL 5430VGS-G-REM1
 HOOD - #4

REVISIONS	
NO.	DESCRIPTION
1	11-18-22 CFM Update

GREASE MASTER™
 608 MATTHEWS-MINT HILL RD, STE 105, MATTHEWS, NC 28105
 TELEPHONE 704-844-6907 FAX 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Winter Garden, FL
 WINTER GARDEN, FL, 34787

DATE: 6/8/2023
 DWG.#: 6047076
 DRAWN BY: dbreidt
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 1



FOR REFERENCE ONLY

BLOOMIN' BRANDS
 OUTBACK STEAKHOUSE
 STORE #2044
 16322 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT
 10/07/2025 KITCHEN EQUIPMENT UPDATES

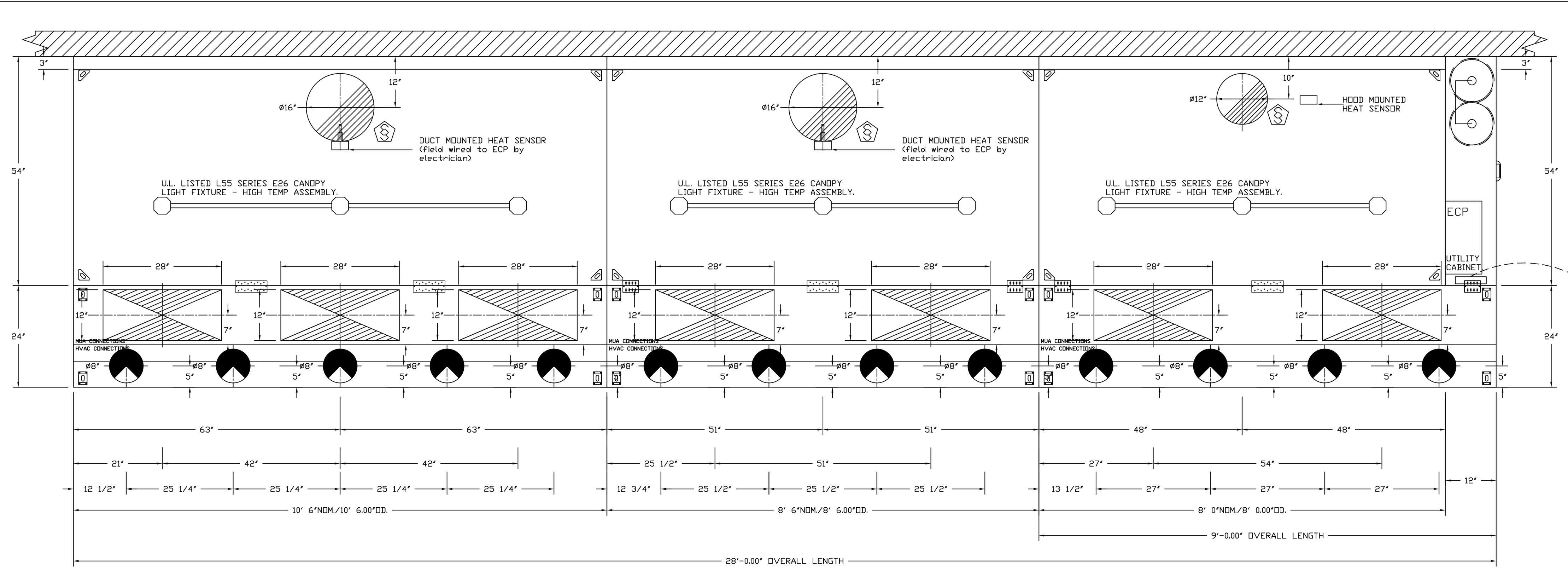
PRINCIPAL IN CHARGE: BW
 PROJECT ARCHITECT: PH
 DRAWN BY: DJ

SHEET TITLE: HOOD DETAILS

PROJ. NO. 2023231.02

MH101

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.



PLAN VIEW - HOOD #1
10' 6.00" LONG 5430GSN-2-ACPSP-F

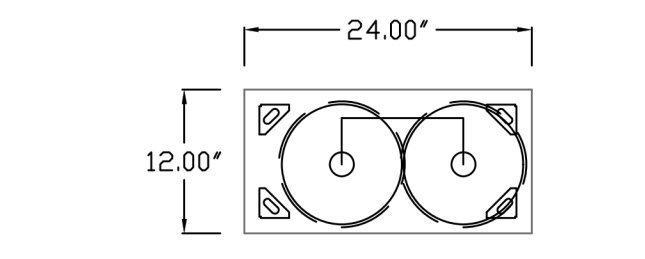
PLAN VIEW - HOOD #2
8' 6.00" LONG 5430GSN-2-ACPSP-F

PLAN VIEW - HOOD #3
8' 0.00" LONG 5430GSN-2-ACPSP-F

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



HOOD CONTROL INTERFACE

The LCD interface provides user control and hood status. The faceplate is connected to the hood control panel through CAT-5 cable. A faceplate has 2 RJ-45 connectors. One connects to port J4 or J5 in the hood control panel and the other will typically be occupied by a RJ-45 end-of-line terminator.

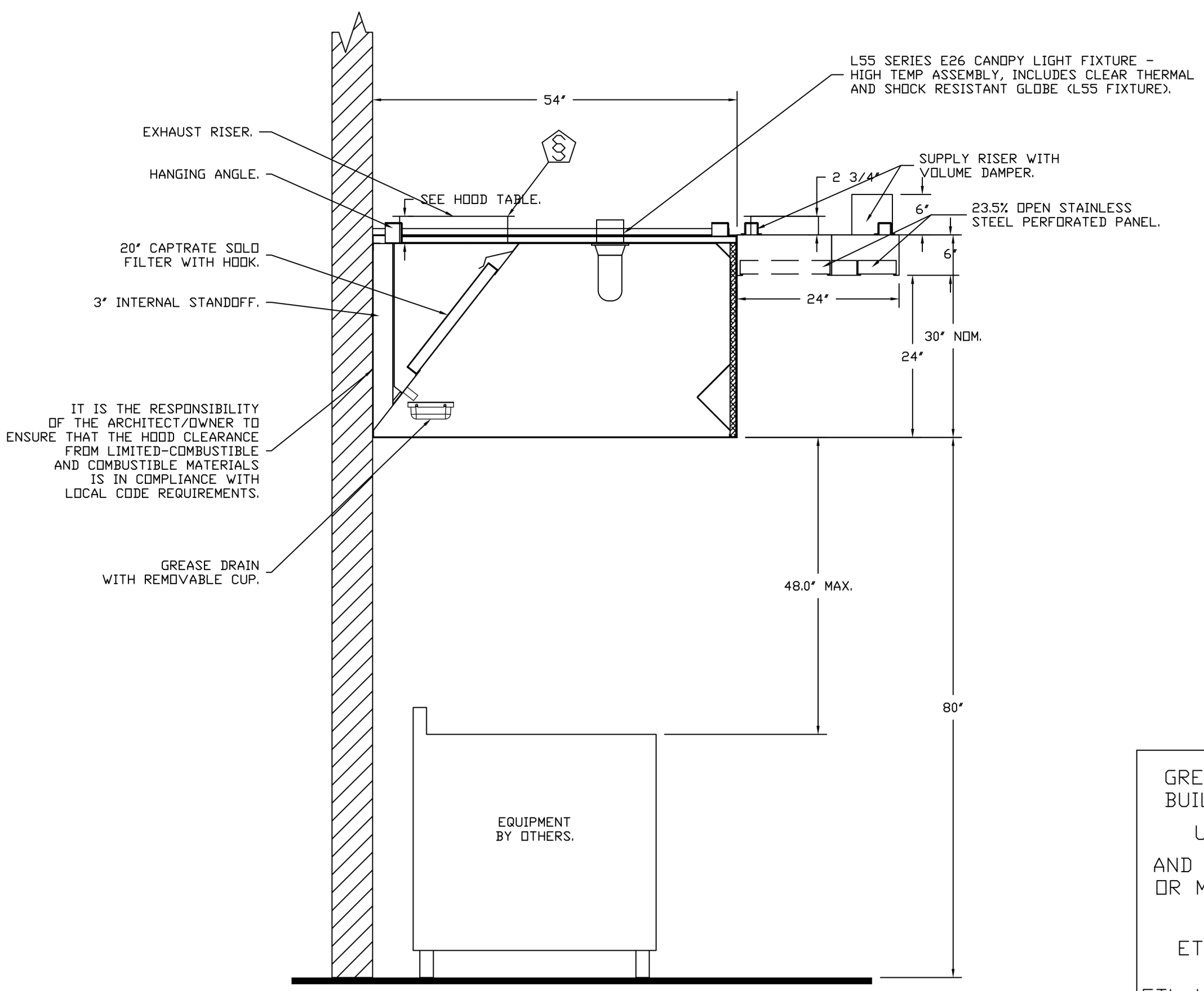
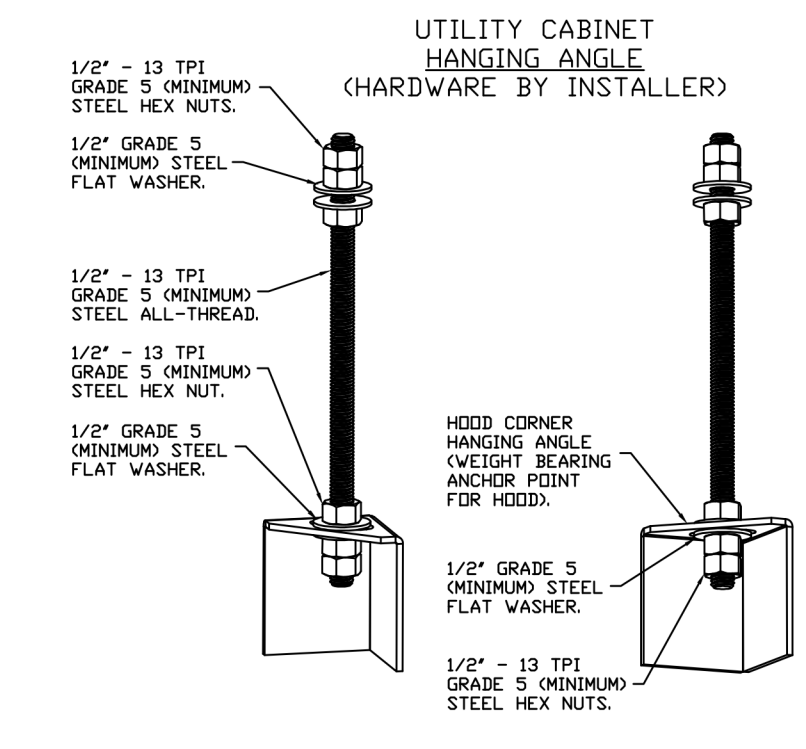
ROOM TEMPERATURE SENSOR

Provides room override based on temperature differential between the room and duct. Installed by electrician on a wall, 5'-6" off the finished floor, in the space but not directly under the hood or close to an appliance (including the electrical control box) so the reading is accurate for space.

WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

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

CABINET TO BE HUNG BY HOOD INSTALLER. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.



SECTION VIEW - MODEL 5430GSN-2-ACPSP-F
HOOD - #1,2,&3

GREASE MASTER HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

REVISIONS	
DESCRIPTION	DATE

GREASE MASTER™
608 MATTHEWS-MINT HILL RD, STE 105, MATTHEWS, NC 28105
TELEPHONE 704-844-6907 FAX 704-844-8013
WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Winter Garden, FL
WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
STORE #2044
16323 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

SHEET ISSUE:
08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

SHEET TITLE:
HOOD DETAILS

PROJ. NO. 2023231.02

MH102

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

FIRE SYSTEM INFORMATION - JOB#6047076

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	5B	FIRE CABINET RIGHT	RIGHT, HOOD 3
			4.0/4.0		WALL UTILITY CABINET LEFT	N/A

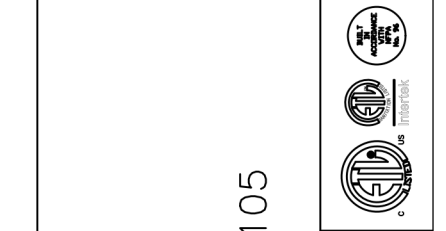
CAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.500	GREASEMASTER

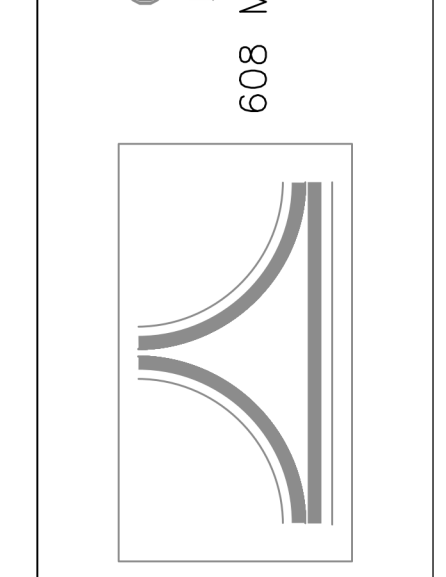
FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F26021-32144-01-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE DN TEMP RISE AT 360°F.	3	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	4	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	2	0
		0 - 0 - 79525 1/2" 90 PRD-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 79580 1/2" X 1/2" PRD-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	4	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	4	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	16	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	2	0
		0 - 0 - A314B4 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - SLP0DN-30FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2" GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	3	0
		0 - 0 - SLP0DN-30FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 29" GAP. KIT CONTAINS 32 FEET OF BLACK MG WIRE, 32 FEET OF TAN MG WIRE, 30 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	12	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	4	0
0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	4	0		
34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT, RED COLOR.	2	0		

REVISIONS	
DESCRIPTION	DATE



GREASE MASTER™
 608 MATTHEWS-MINT HILL RD, STE 105, MATTHEWS, NC 28105
 TELEPHONE 704-844-6907 FAX 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Winter Garden, FL
 WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 3



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 STORE #2044
 16322 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT

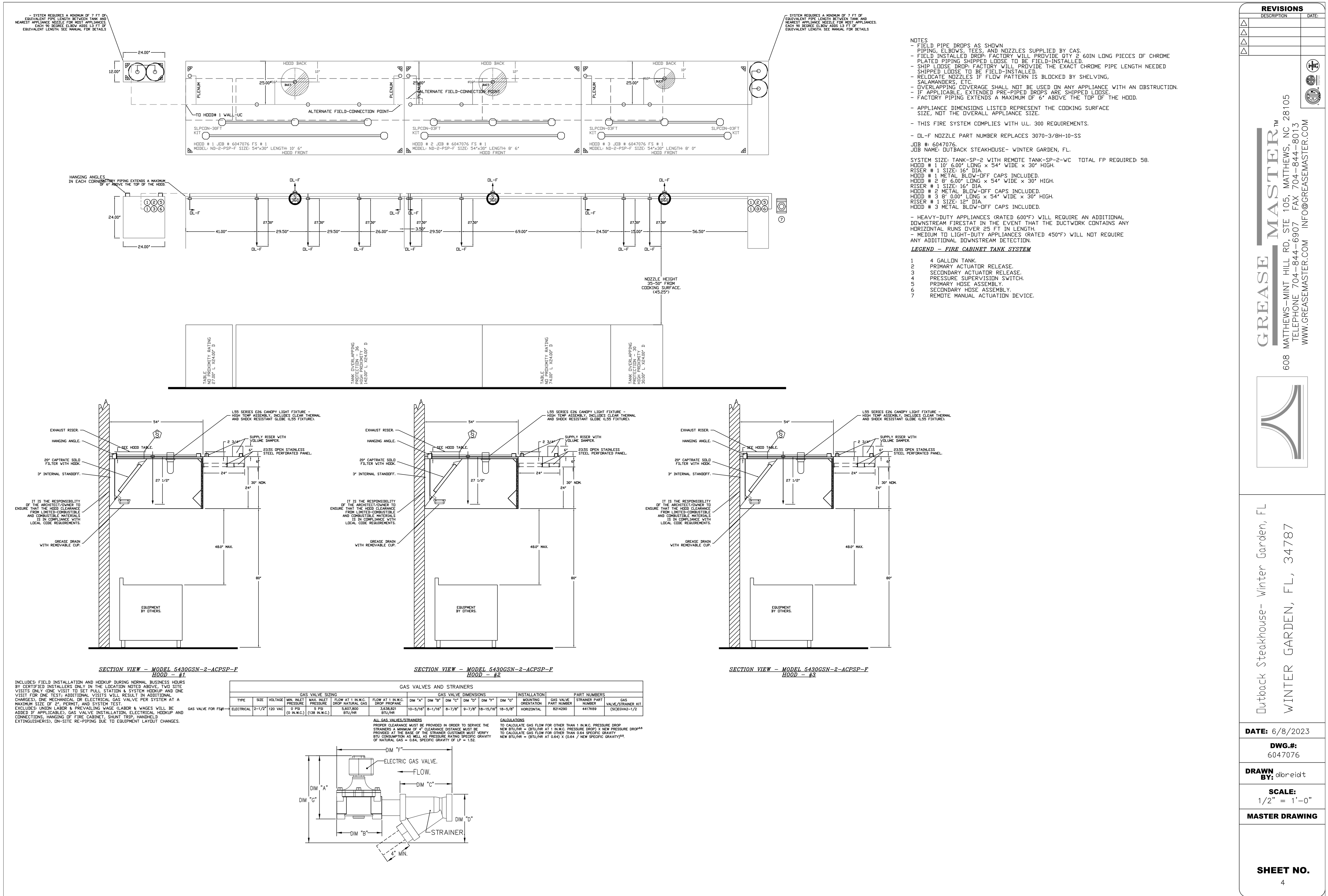
PRINCIPAL IN CHARGE: BW
 PROJECT ARCHITECT: PH
 DRAWN BY: DJ

SHEET TITLE:
HOOD DETAILS

SHEET NO. PROJ. NO.
 3 2023231.02

MH103

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 STORE #2044
 16322 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT

Outback Steakhouse- Winter Garden, FL
 WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 1/2" = 1'-0"
MASTER DRAWING

PRINCIPAL IN CHARGE: BW
 PROJECT ARCHITECT: PH
 DRAWN BY: DJ

SHEET TITLE:
HOOD DETAILS

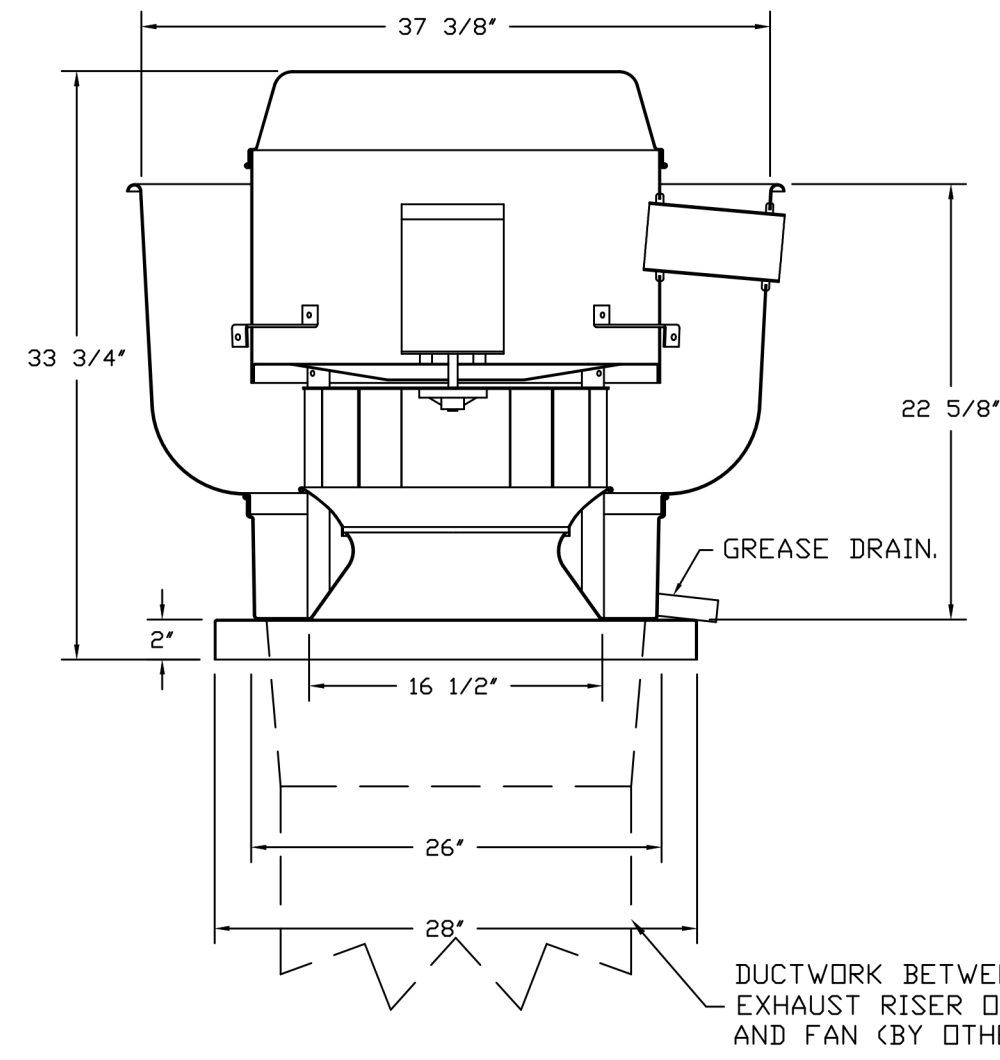
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PROJ. NO.
 2023231.02

MH104

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

FAN #2 QMDUBH - EXHAUST FAN (CF-2)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND UL-C-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

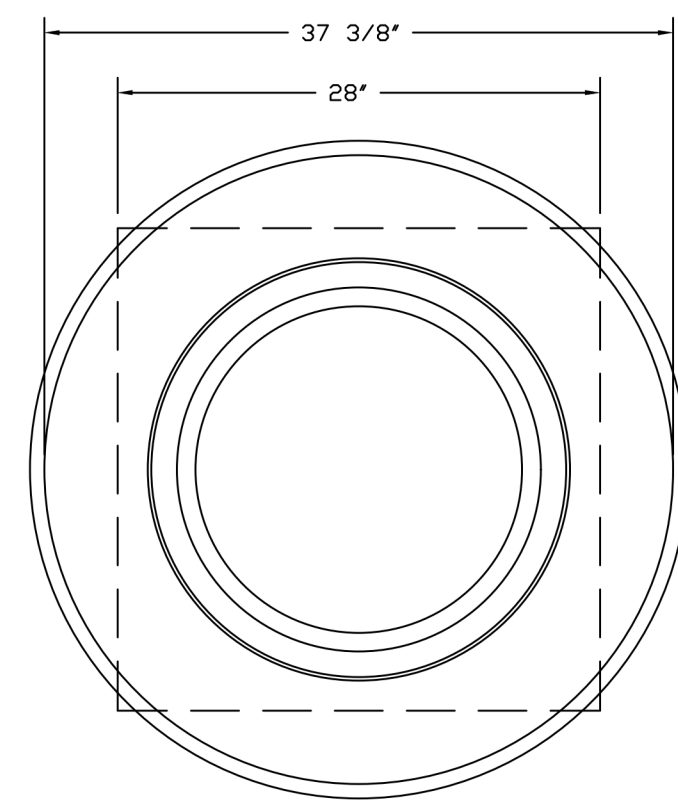
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

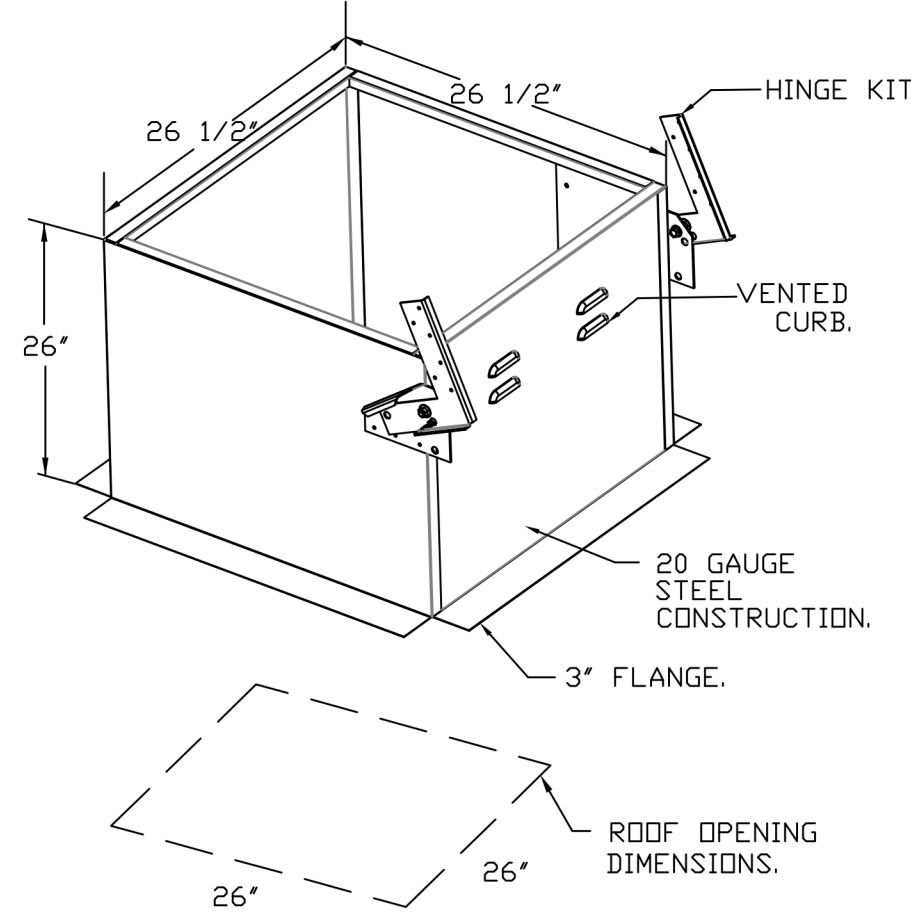
OPTIONS:

- GREASE BOX.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.

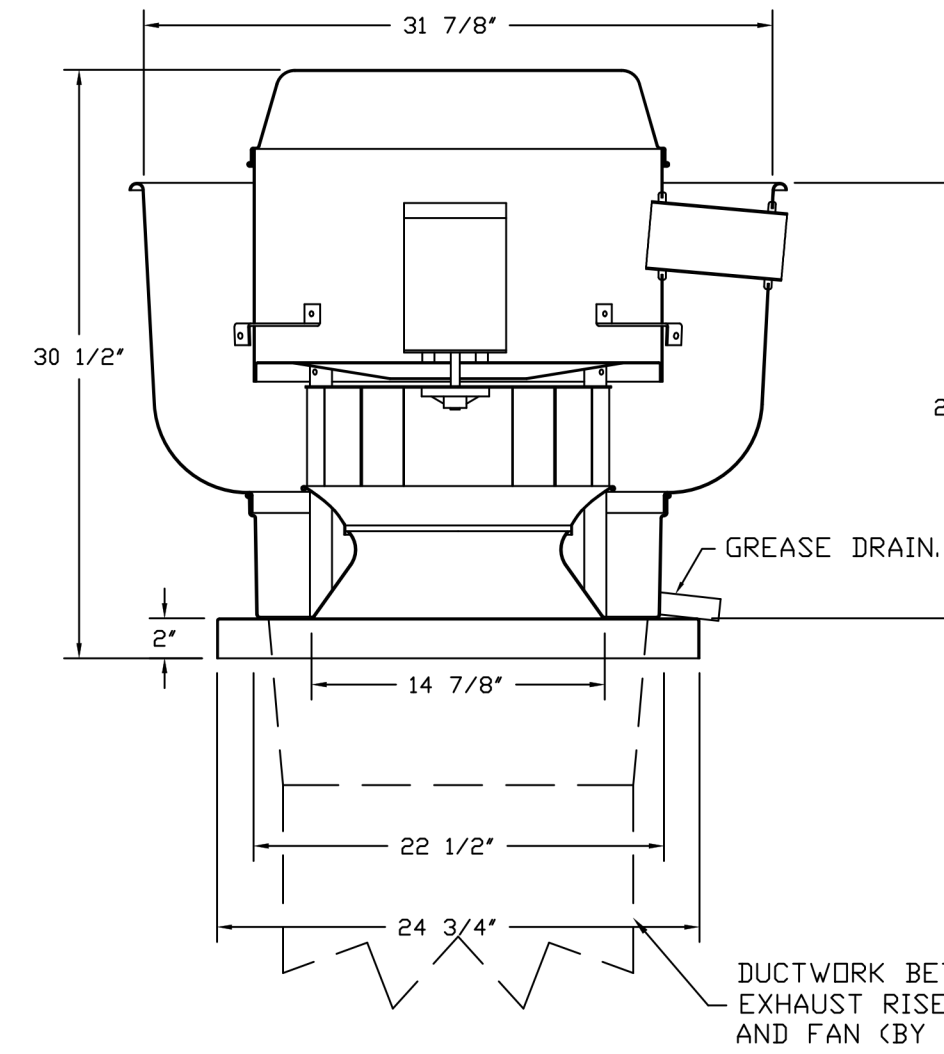
DUCTWORK BETWEEN EXHAUST RISER IN HOOD AND FAN (BY OTHERS).



TOP VIEW



FAN #3 QMDUBH - EXHAUST FAN (CF-3)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND UL-C-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

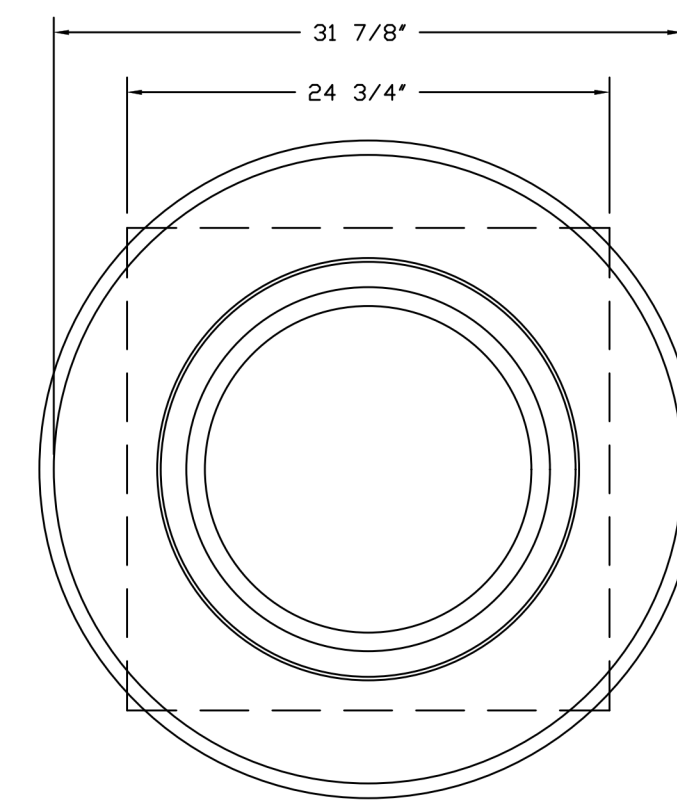
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

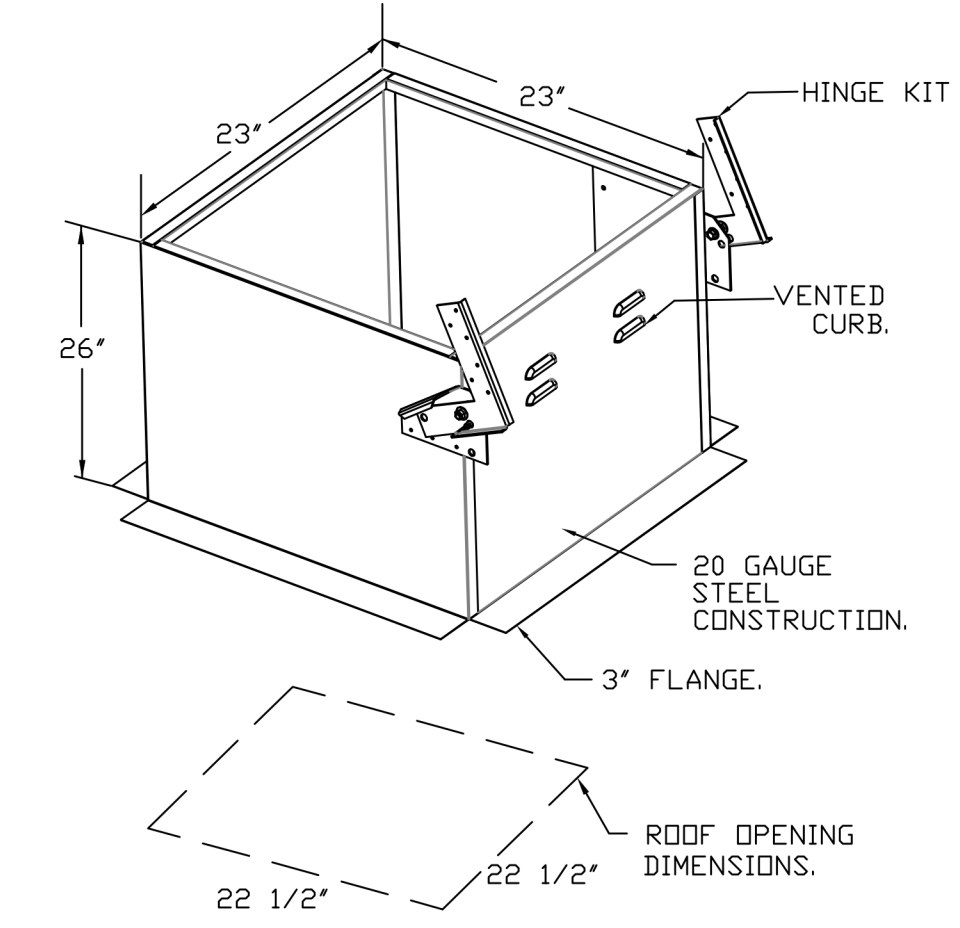
OPTIONS:

- GREASE BOX.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.

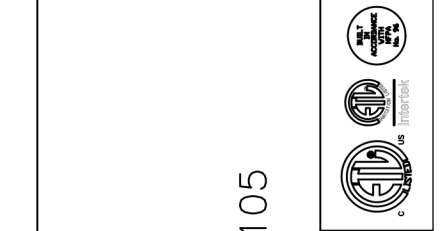
DUCTWORK BETWEEN EXHAUST RISER IN HOOD AND FAN (BY OTHERS).



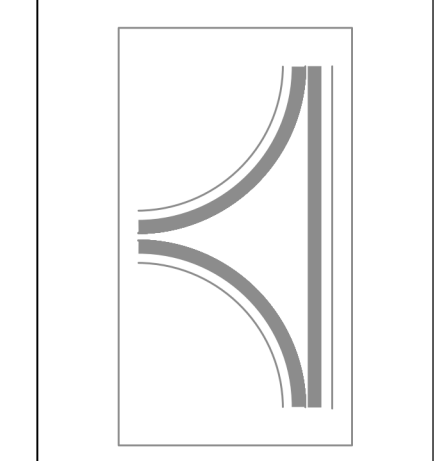
TOP VIEW



REVISIONS	
DESCRIPTION	DATE



GREASE MASTER™
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Outback Steakhouse- Winter Garden, FL
WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 6



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
STORE #2044
16323 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

SHEET ISSUE:
08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

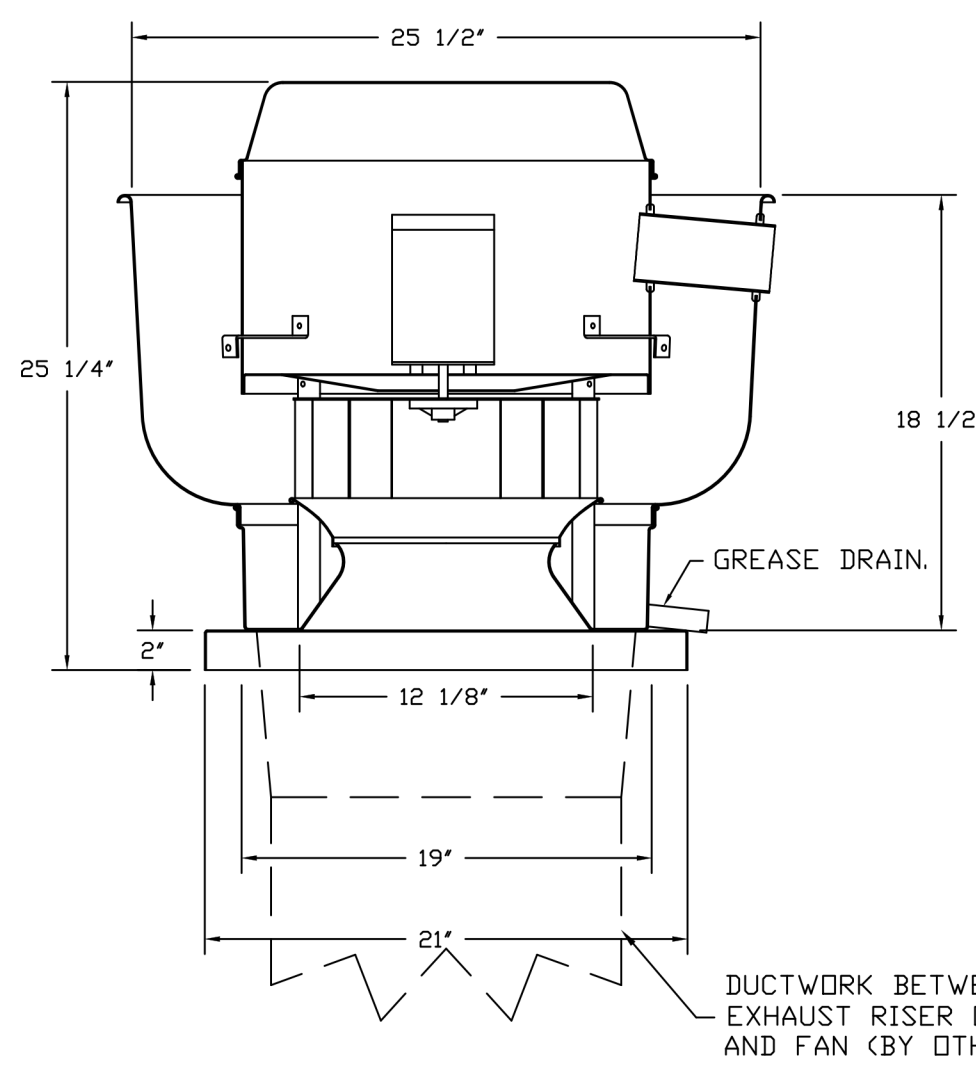
SHEET TITLE:
HOOD DETAILS

SHEET NO. PROJ. NO.
6 2023231.02

MH106

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

FAN #4 GMDU30H - EXHAUST FAN (CF-4)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND UL-C-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

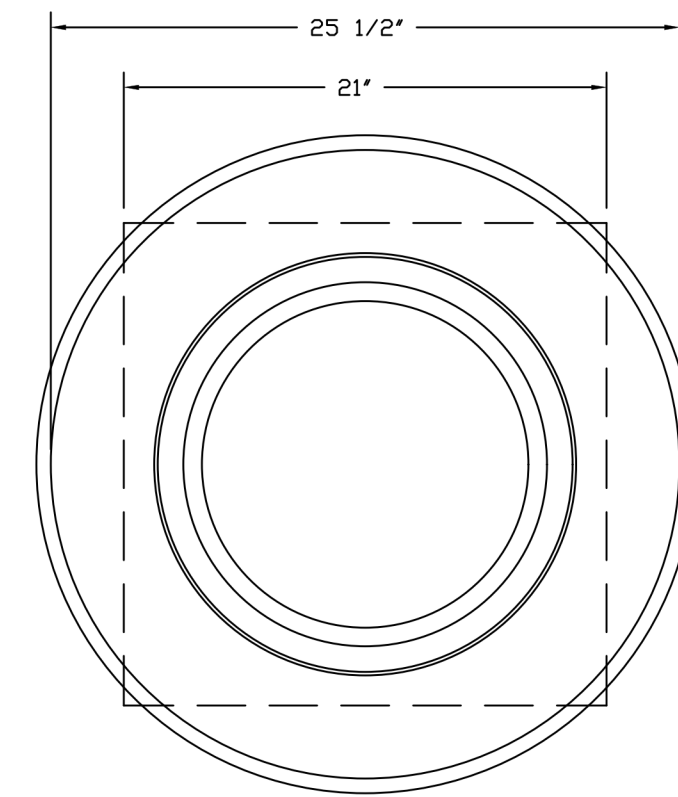
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

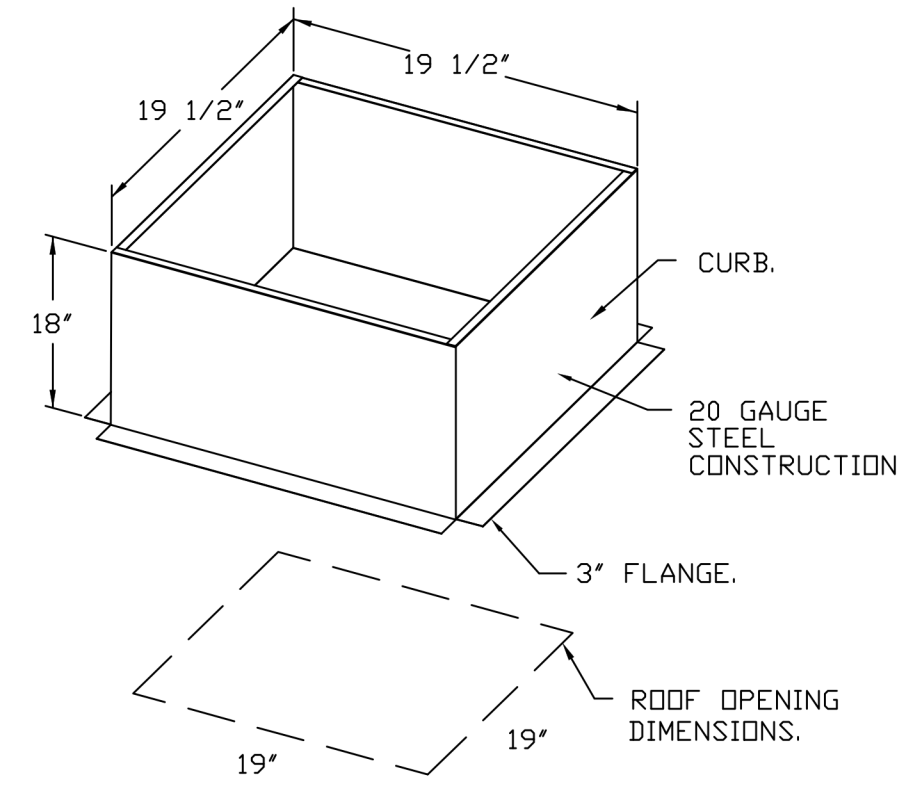
OPTIONS:

- GREASE BOX.
- FULL GRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.

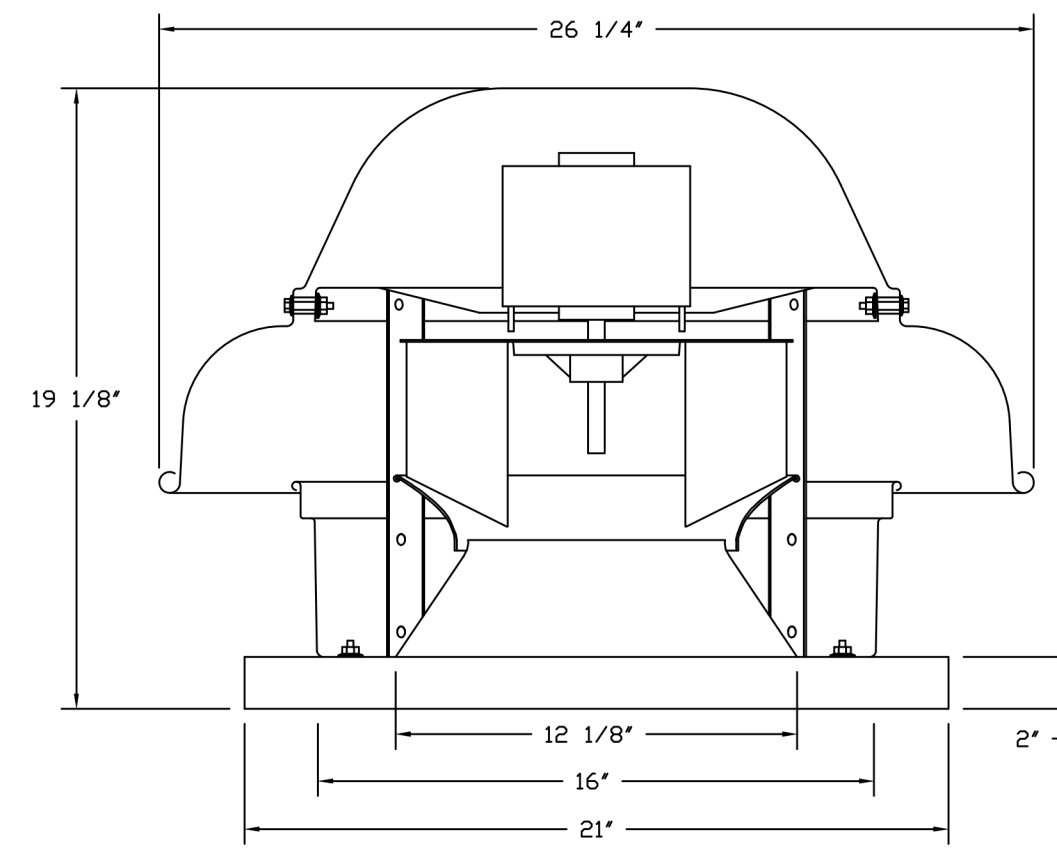
DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW



FAN #5 GMDR30H - EXHAUST FAN (CF-5)

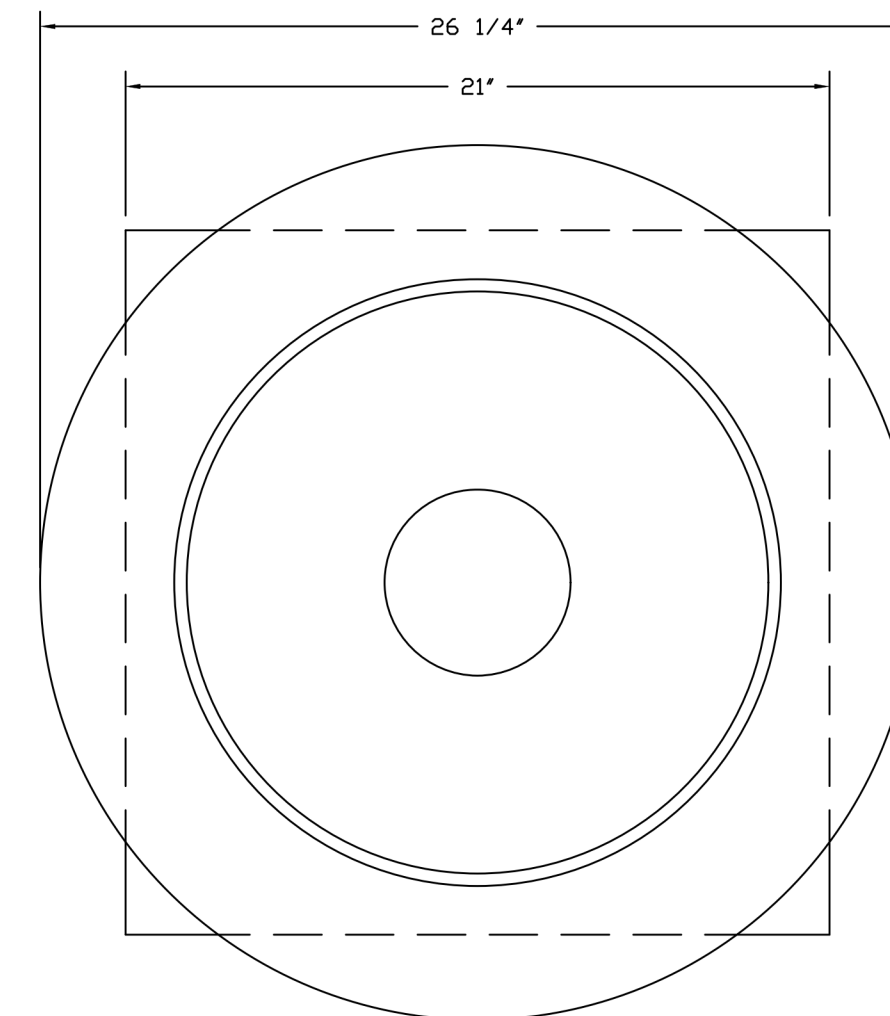


FEATURES:

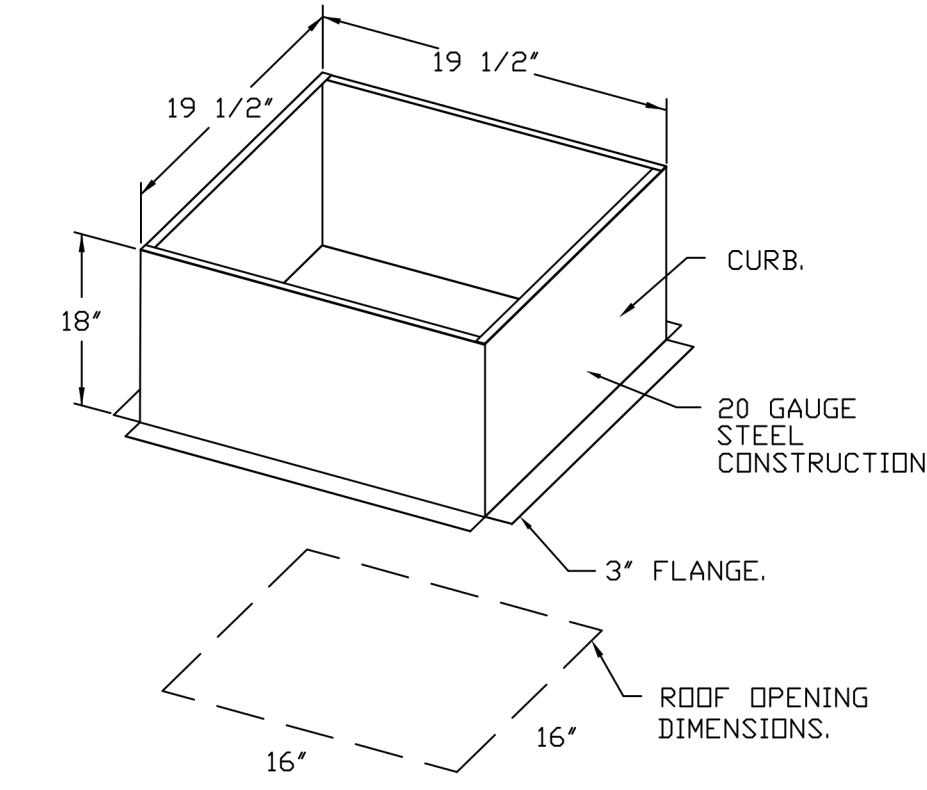
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS:

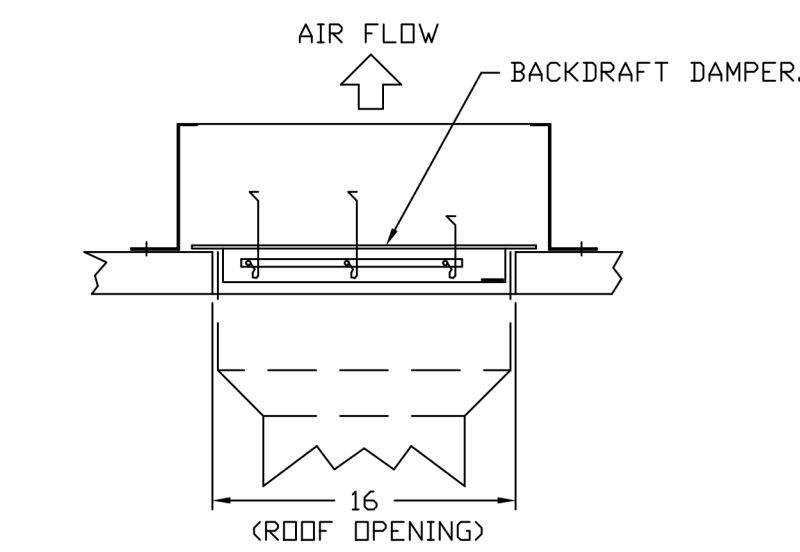
- 1 1/2" BIRD DAMPER.
- FULL GRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.



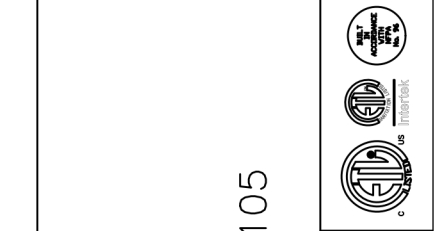
TOP VIEW



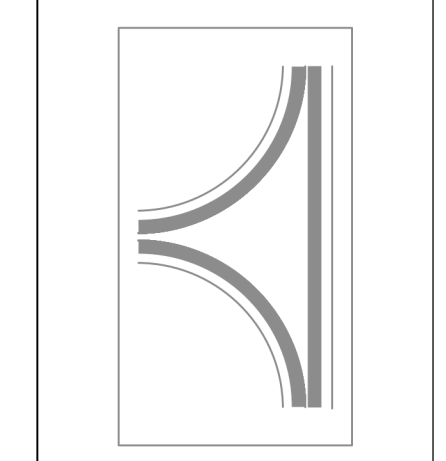
BACKDRAFT DAMPER INSTALLATION



REVISIONS	
DESCRIPTION	DATE



GREASE MASTER™
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 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Winter Garden, FL
 WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
7



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 STORE #2044
 16323 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: BW
 PROJECT ARCHITECT: PH
 DRAWN BY: DJ

SHEET TITLE:
HOOD DETAILS

SHEET NO. PROJ. NO.
 7 2023231.02

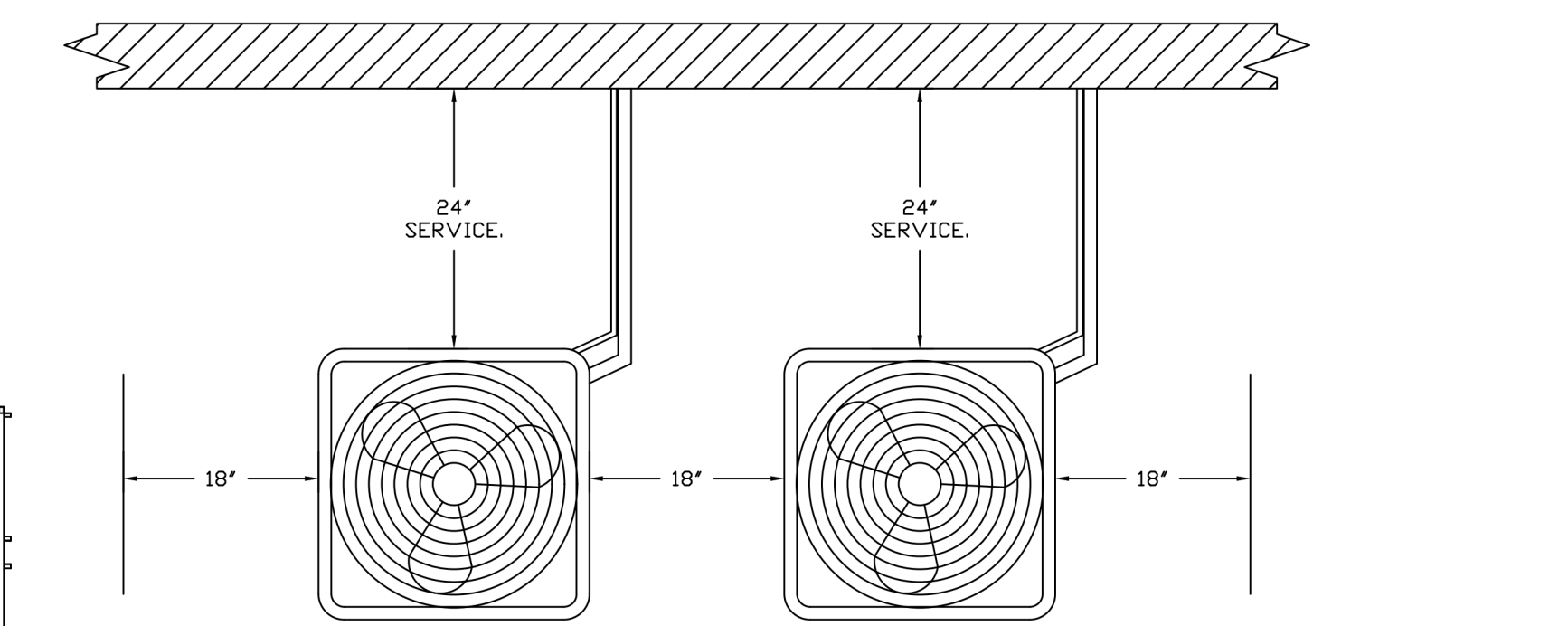
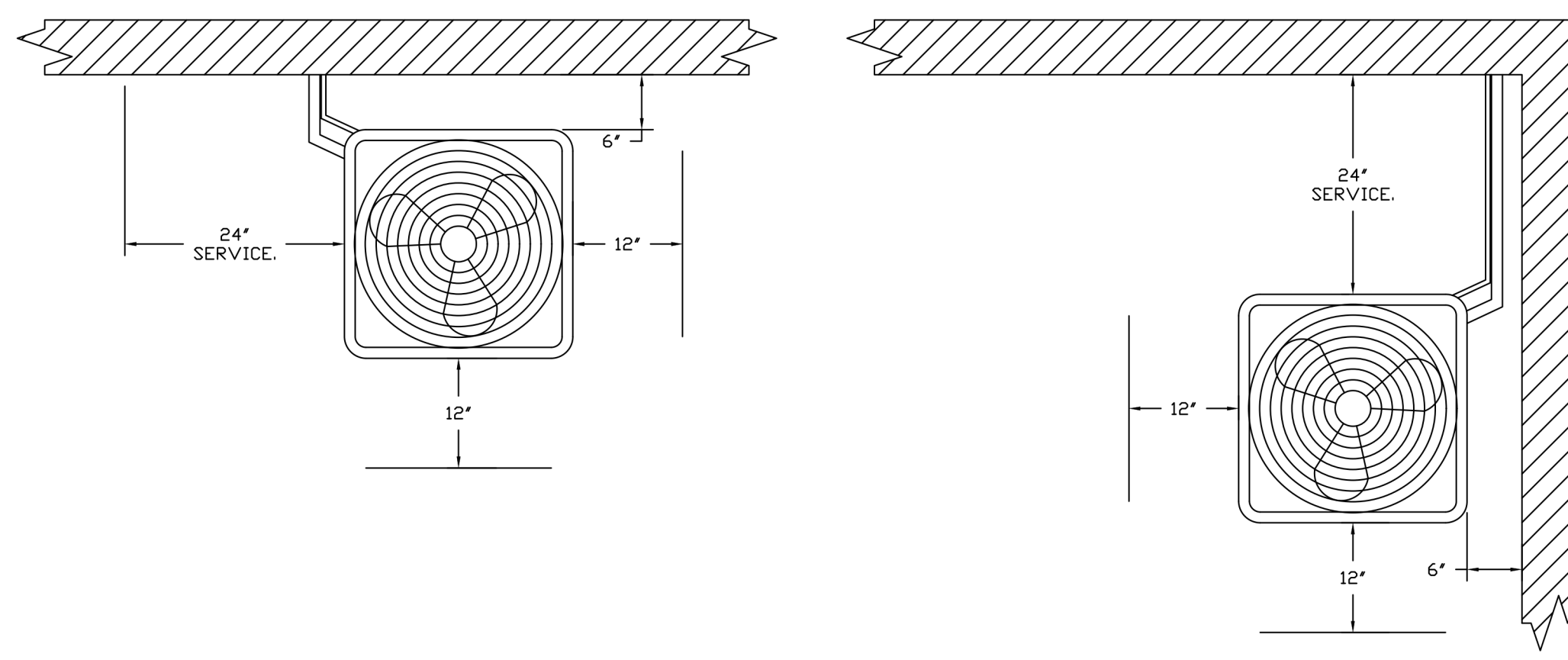
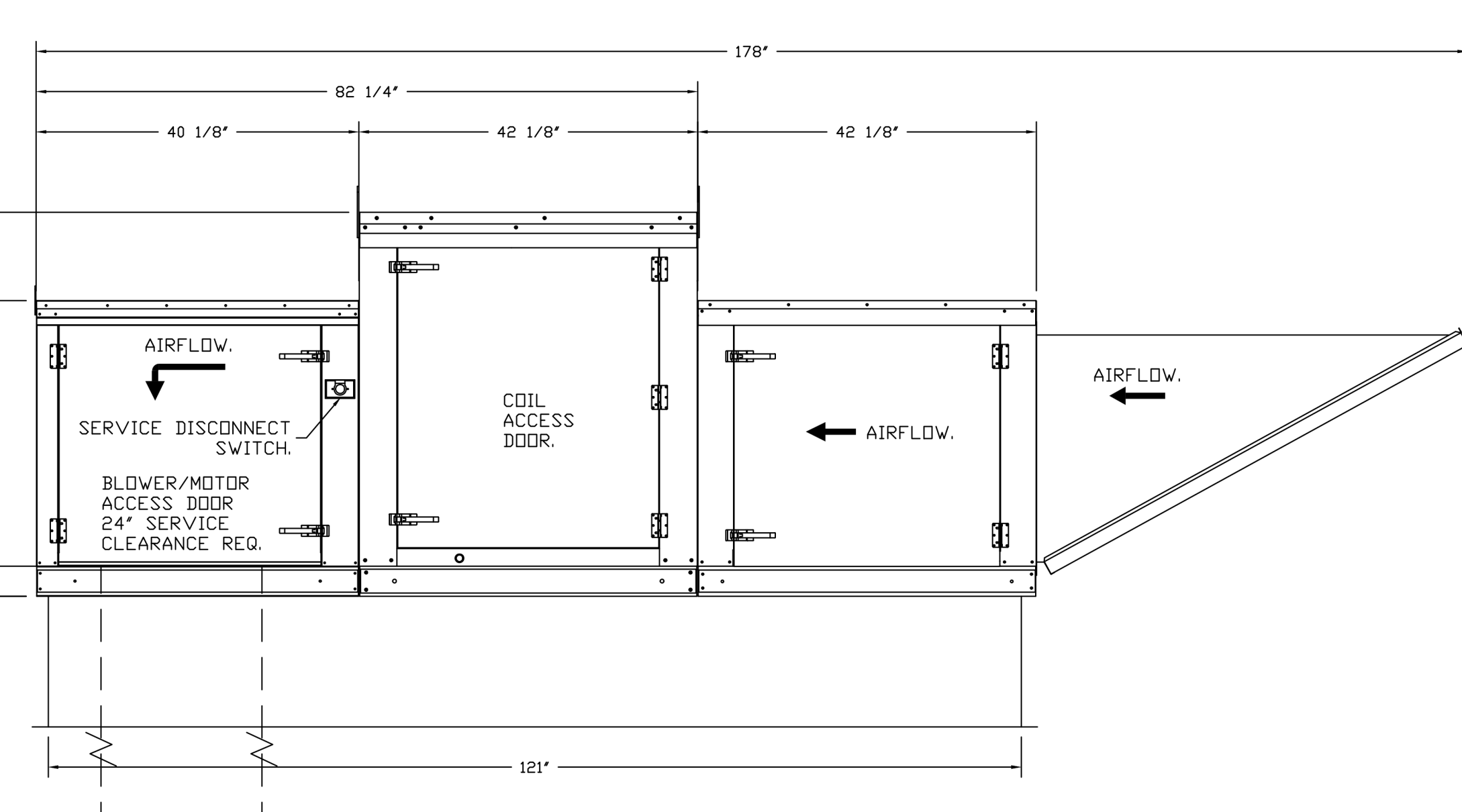
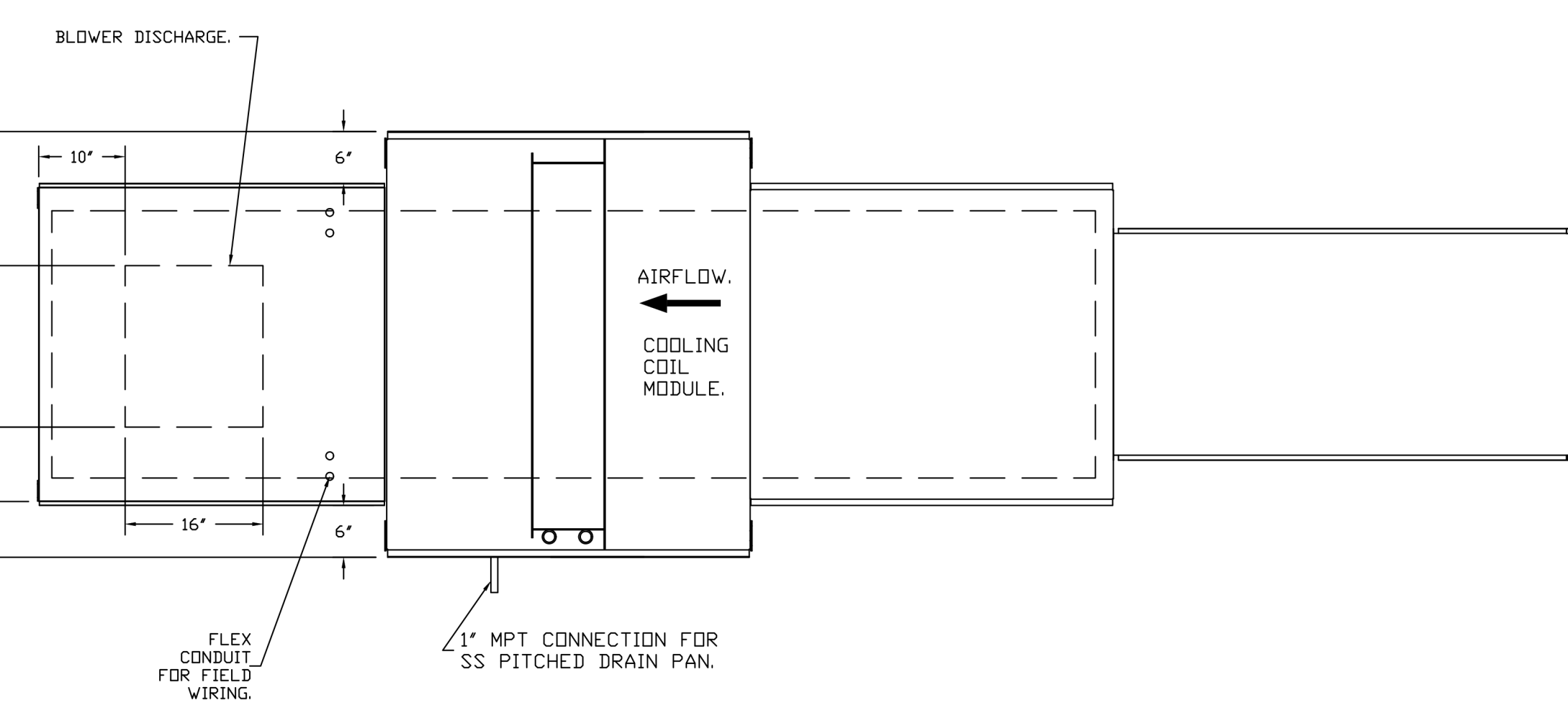
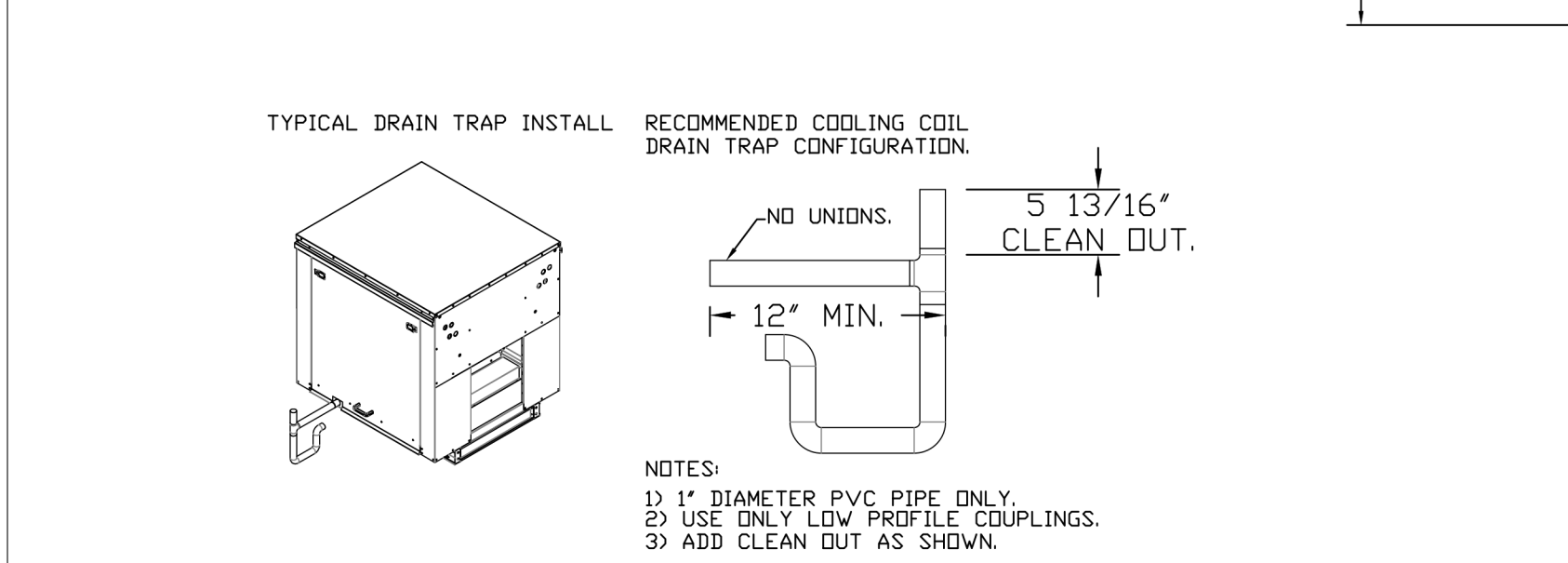
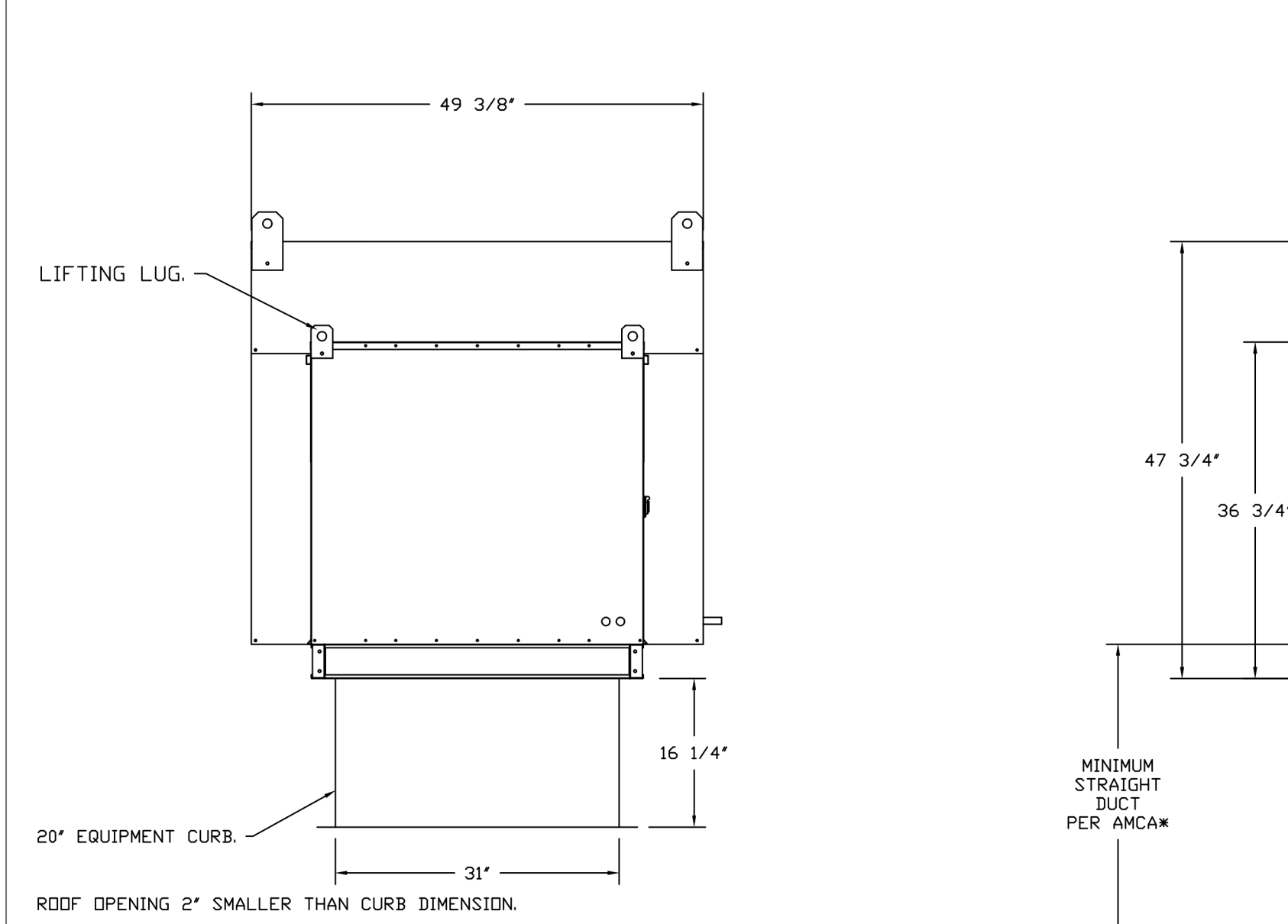
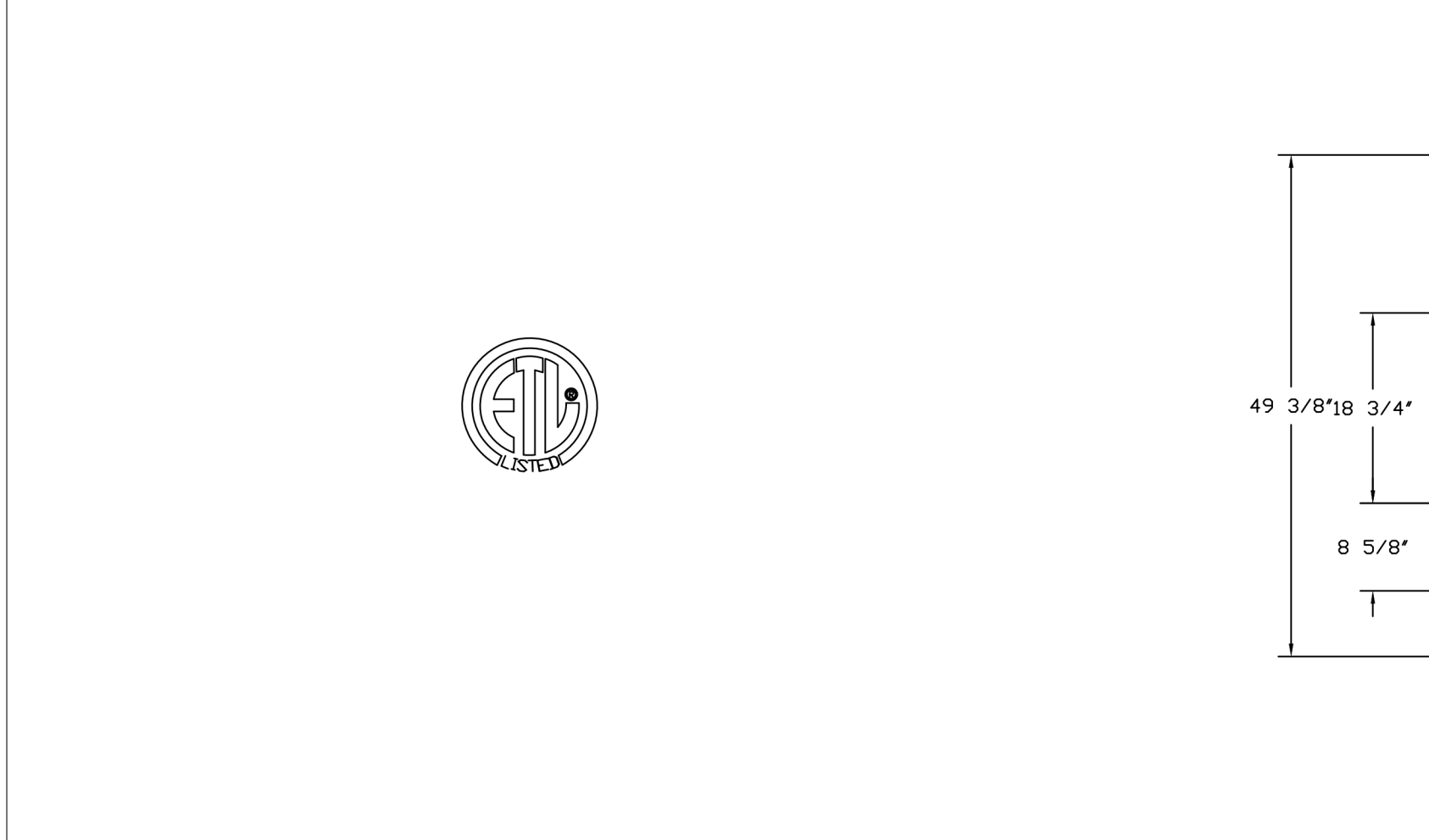
MH107

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

1. SUPPLY UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 UNTEMPERED DIRECT DRIVE AHUS.
5. FULL CRATING FOR UNTEMPERED FANS FOR SHIPPING.
6. MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +30 / -130 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 18 GAUGE ALUMINIZED.
7. GRAVITY BACK DRAFT DAMPER 22" X 24" - STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 2 UNTEMPERED FAN HOUSING (3182).
8. 8 TON, DUAL CIRCUIT (2/2) MODULAR PACKAGED COOLING OPTION WITH HEAT PUMP FOR SIZE 2 MODULAR PACKAGED UNIT. INCLUDES HEAT PUMP, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING (2500 TO 4800 CFM WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION COIL = 3E21101B.
9. INSULATED BLOWER HOUSING SIZES 1-2 COMMERCIAL MODULAR.
10. CONTROL PACKAGE FOR MOD PACKAGE UNIT HEAT PUMP UNIT. INCLUDES AIRFLOW PROVING SWITCH, RTULINK-ACHP BOARD AND TERMINAL BLOCKS.
11. SUPPORT SHELL FOR SIZE 2 MODULAR PACKAGE UNIT. INCLUDES CONTROL VESTIBULE. INCLUDES CONDENSER SUPPORTS. DOES NOT INCLUDE RETURN AIR OR INLET AIR DAMPER.
12. SIZE 2 MOISTURE ELIMINATOR OPTION FOR DX COIL, MPUS AND CHILLED WATER COILS - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 450 FPM - INCREASES COOLING COIL MAX CFM TO 6000 CFM.
13. SHIP CONDENSERS LOOSE. THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINES NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE. ALL PIPING AND WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY OTHERS.
14. LOCKING CAPS FOR DOUBLE HEAT PUMP CONDENSER UNITS. CONSISTS OF 6 LOCKING CAPS, PART# NCP-4, AND 1 KEY, PART# NC-KEY.
15. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
16. UNIT MOUNTED VFD FOR USE WITH ECPM3S.
17. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
18. 2 YEAR PARTS WARRANTY.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 200. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES, FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" X 20".

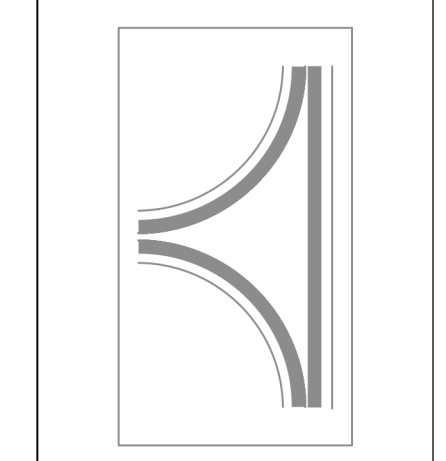
NOTE: CONDENSERS SHIPPED LOOSE FOR REMOTE MOUNTING. ALL WIRING AND PIPING BETWEEN INDOOR AND OUTDOOR UNIT TO BE COMPLETED BY OTHERS.



CONDENSER CLEARANCES
48" CLEARANCE REQUIRED ABOVE CONDENSERS.
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE.)

REVISIONS	
DESCRIPTION	DATE

GREASE MASTER™
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Outback Steakhouse- Winter Garden, FL
WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 8



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
STORE #2044
16323 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

SHEET ISSUE:
08/14/2023 ISSUED FOR PERMIT

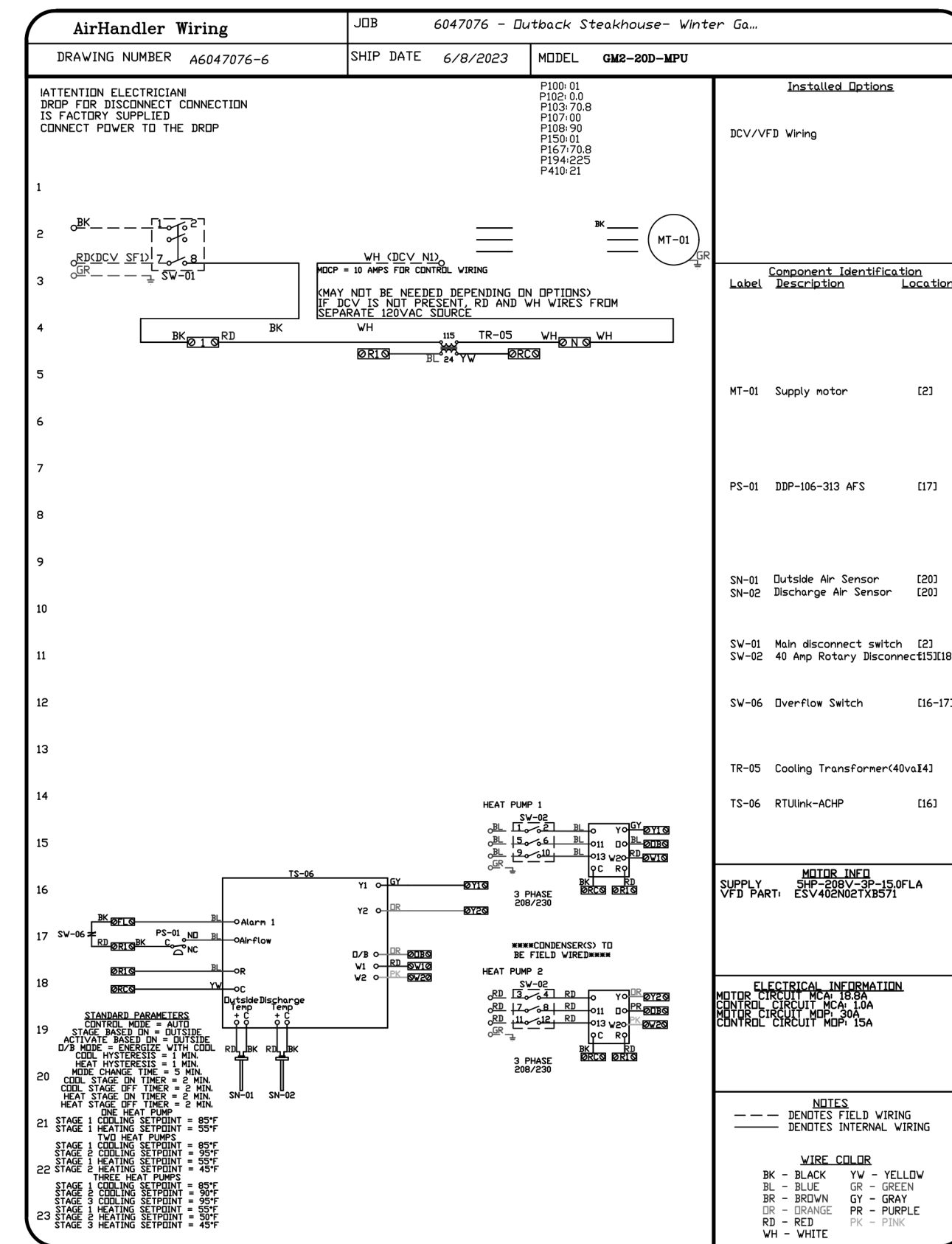
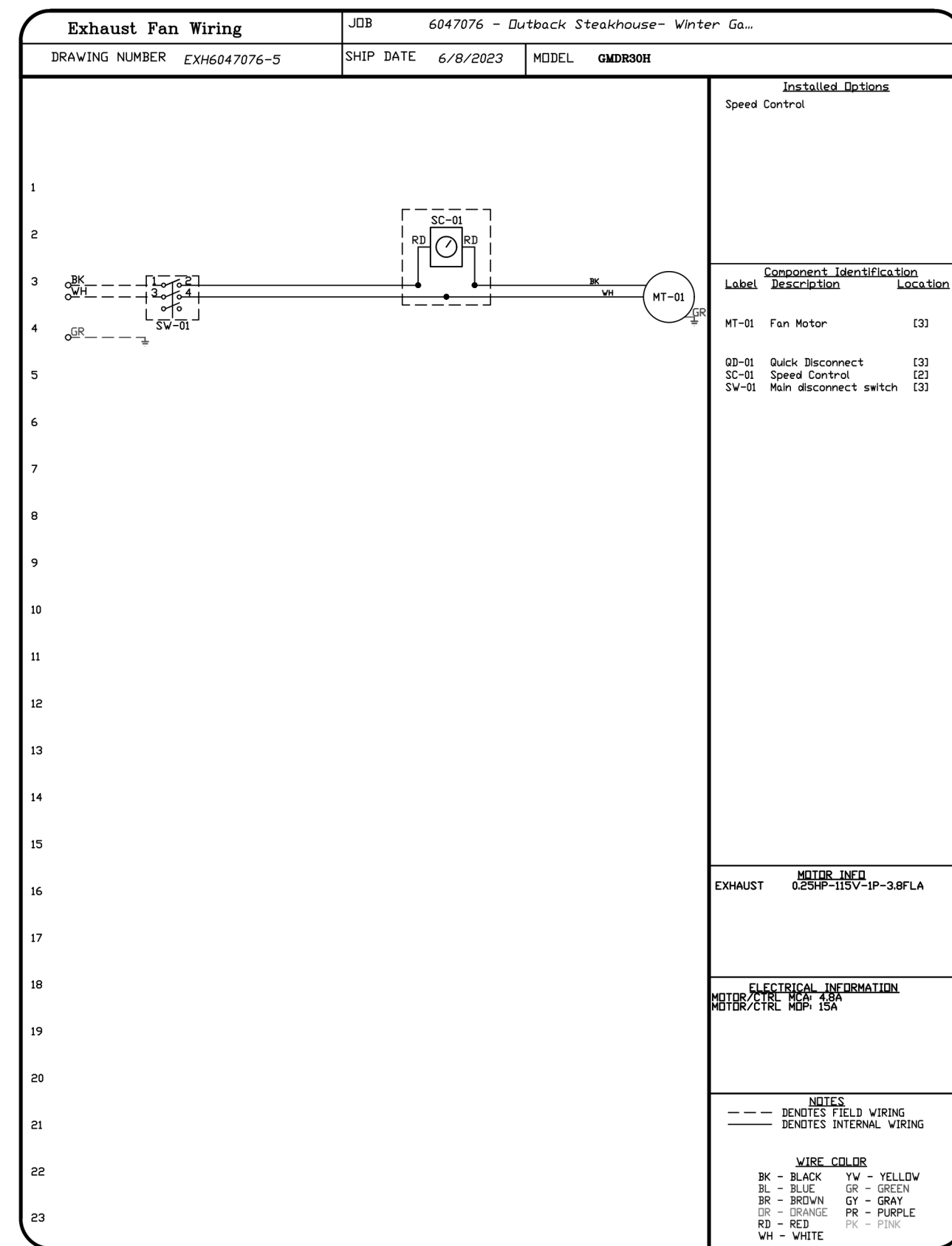
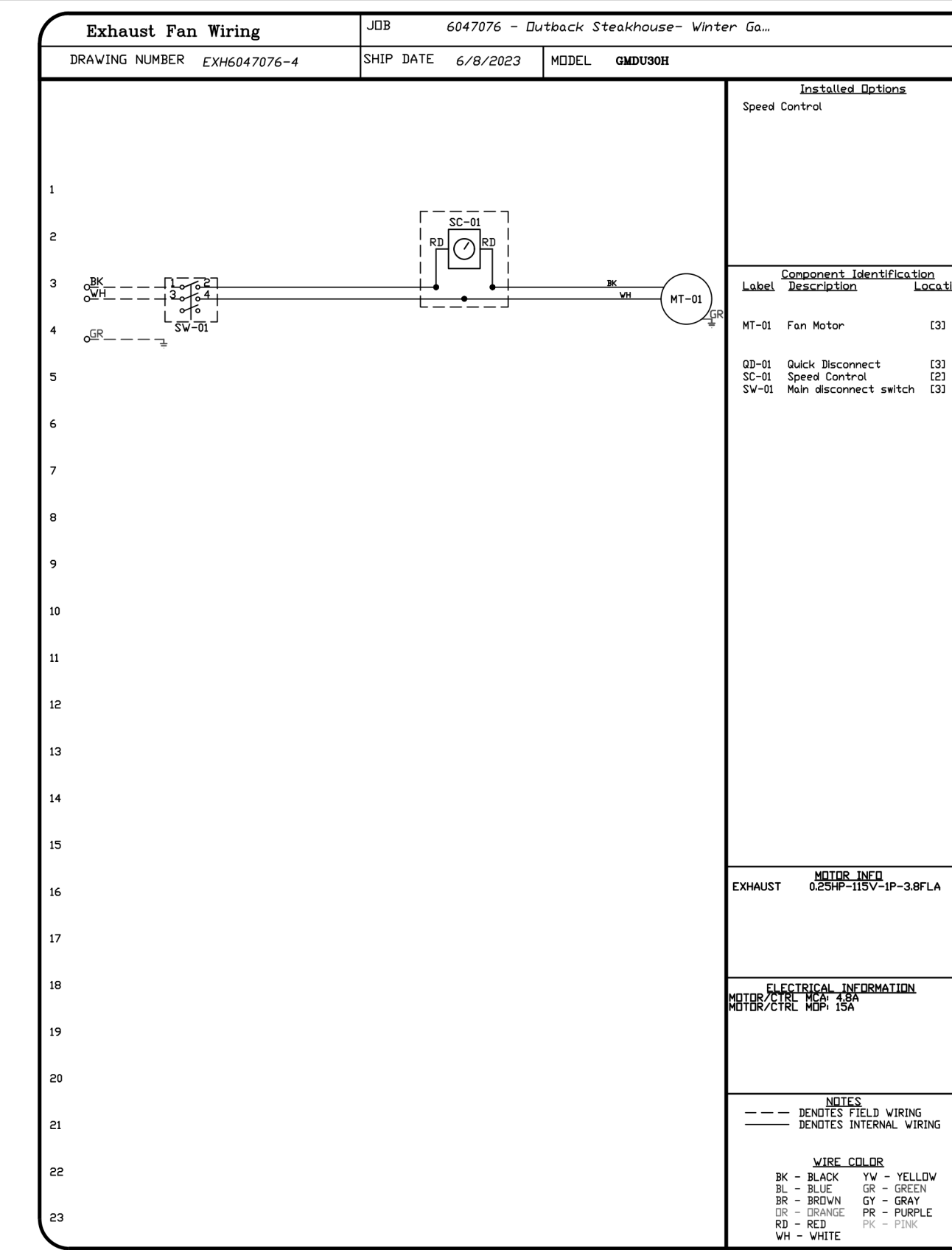
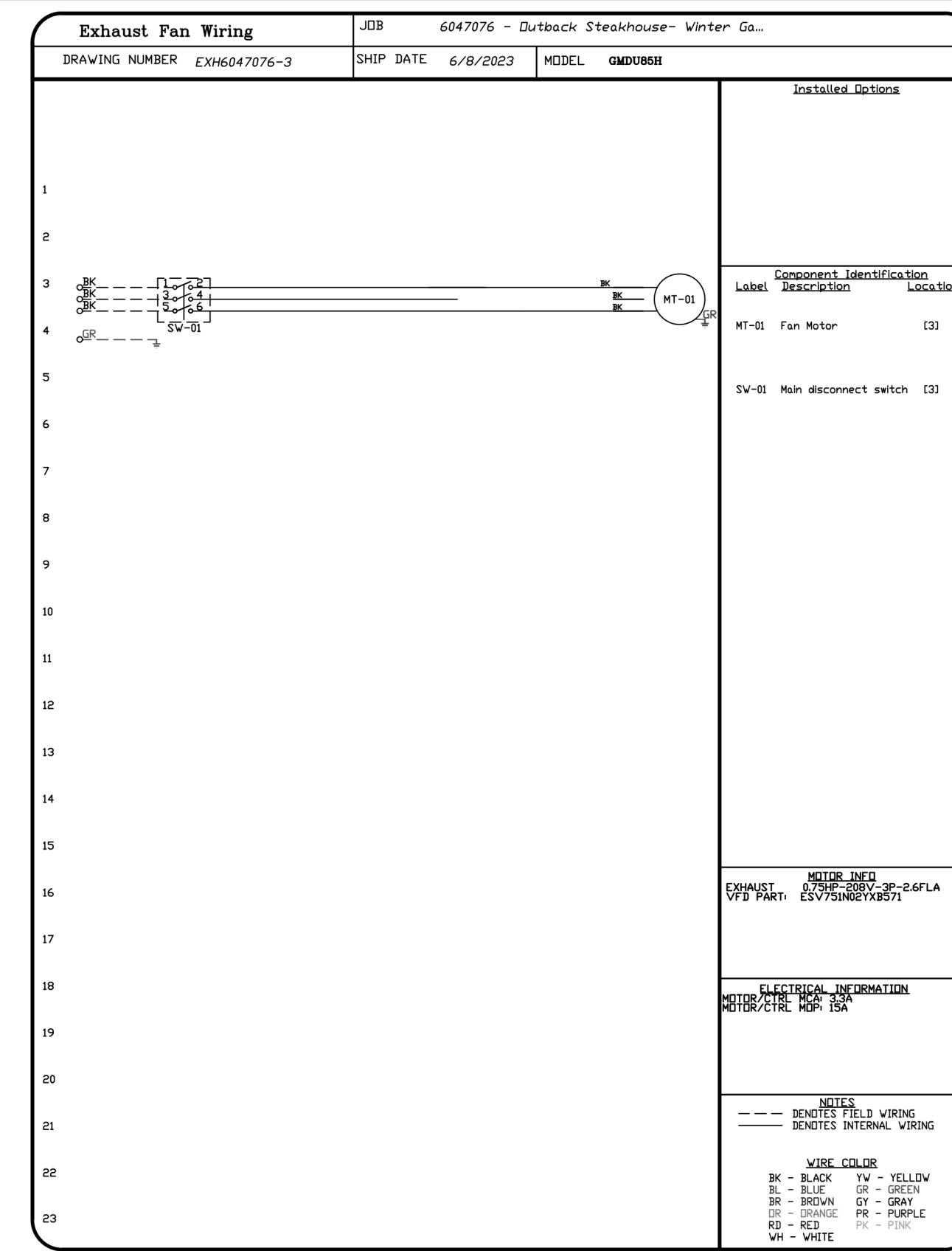
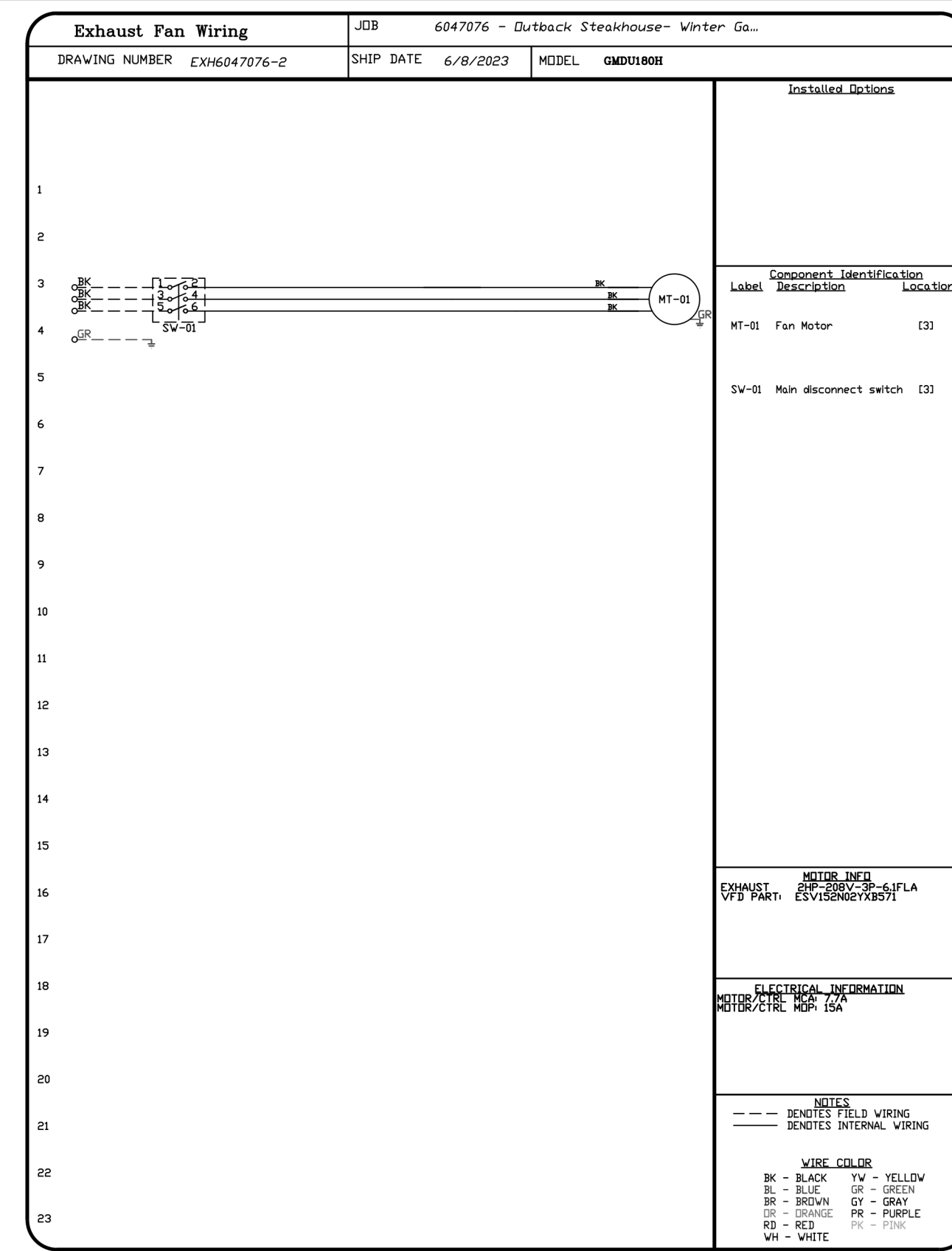
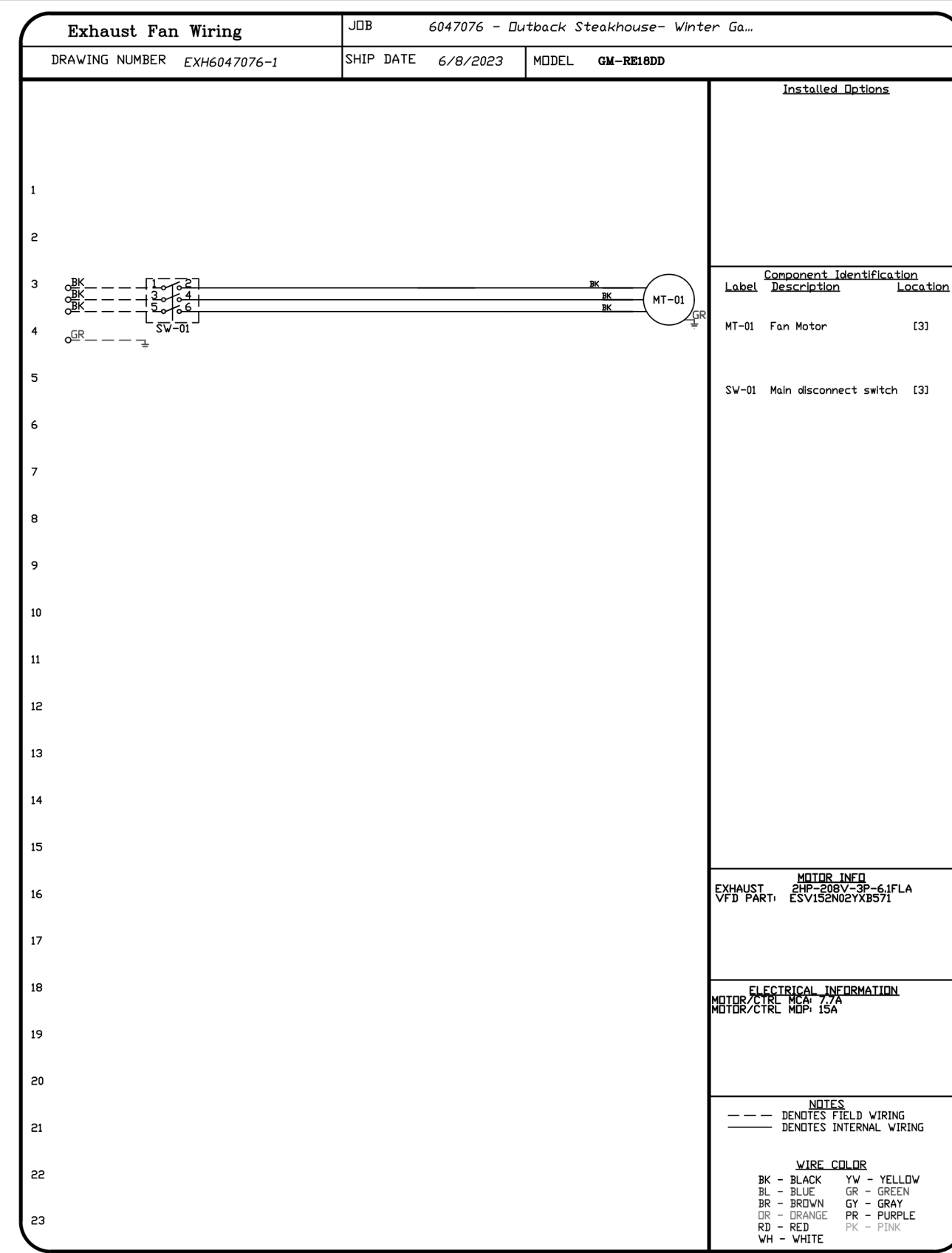
PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

SHEET TITLE:
HOOD DETAILS

SHEET NO. 8
PROJ. NO. 2023231.02

MH108

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.



REVISIONS

NO.	DESCRIPTION	DATE

GREASE MASTER™
 608 MATTHEWS-MINT HILL RD, STE 105, MATTHEWS, NC 28105
 TELEPHONE 704-844-6907 FAX 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM

Outback Steakhouse- Winter Garden, FL
 WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
9



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 STORE #2044
 16323 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: BW
 PROJECT ARCHITECT: PH
 DRAWN BY: DJ

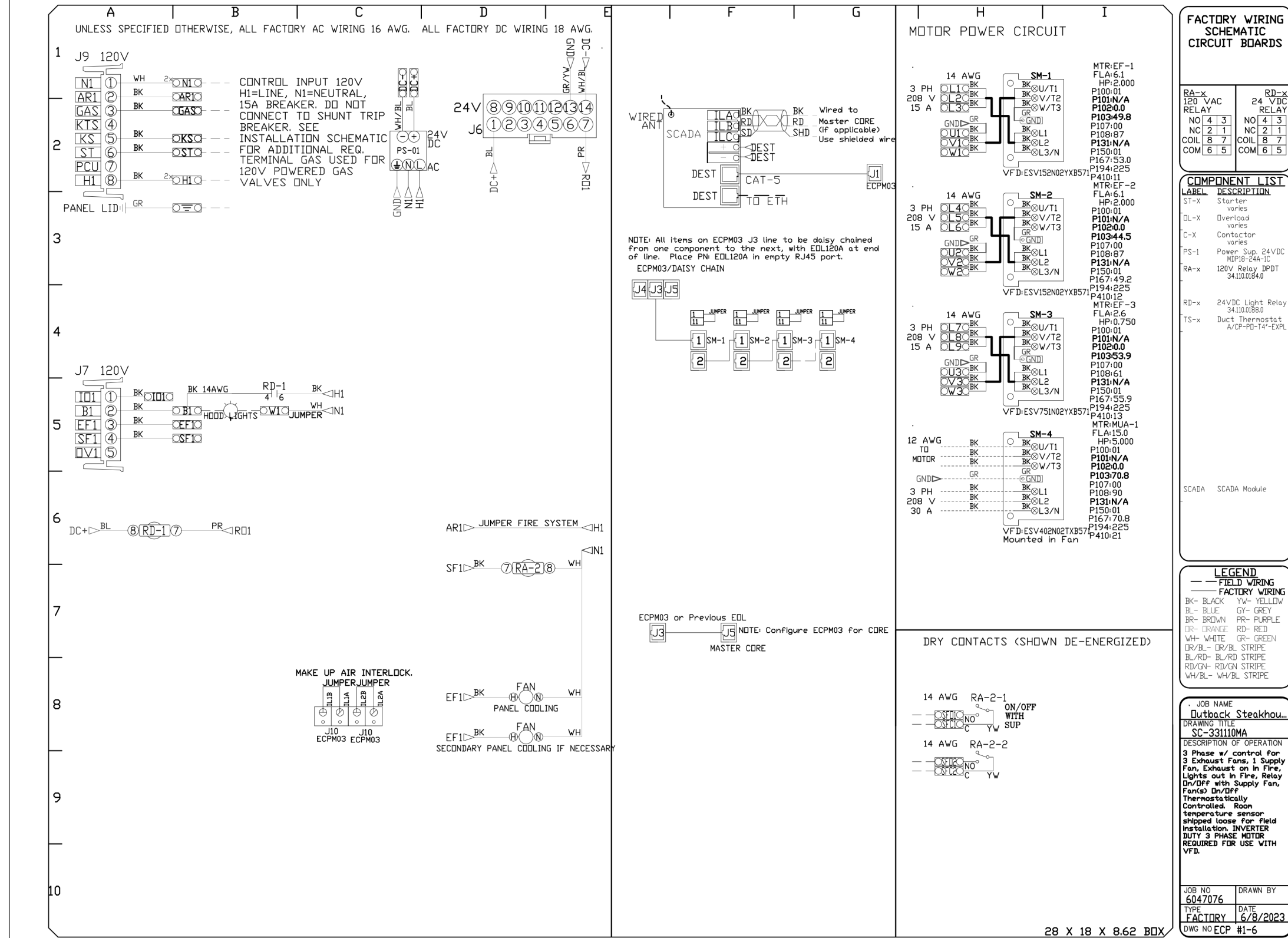
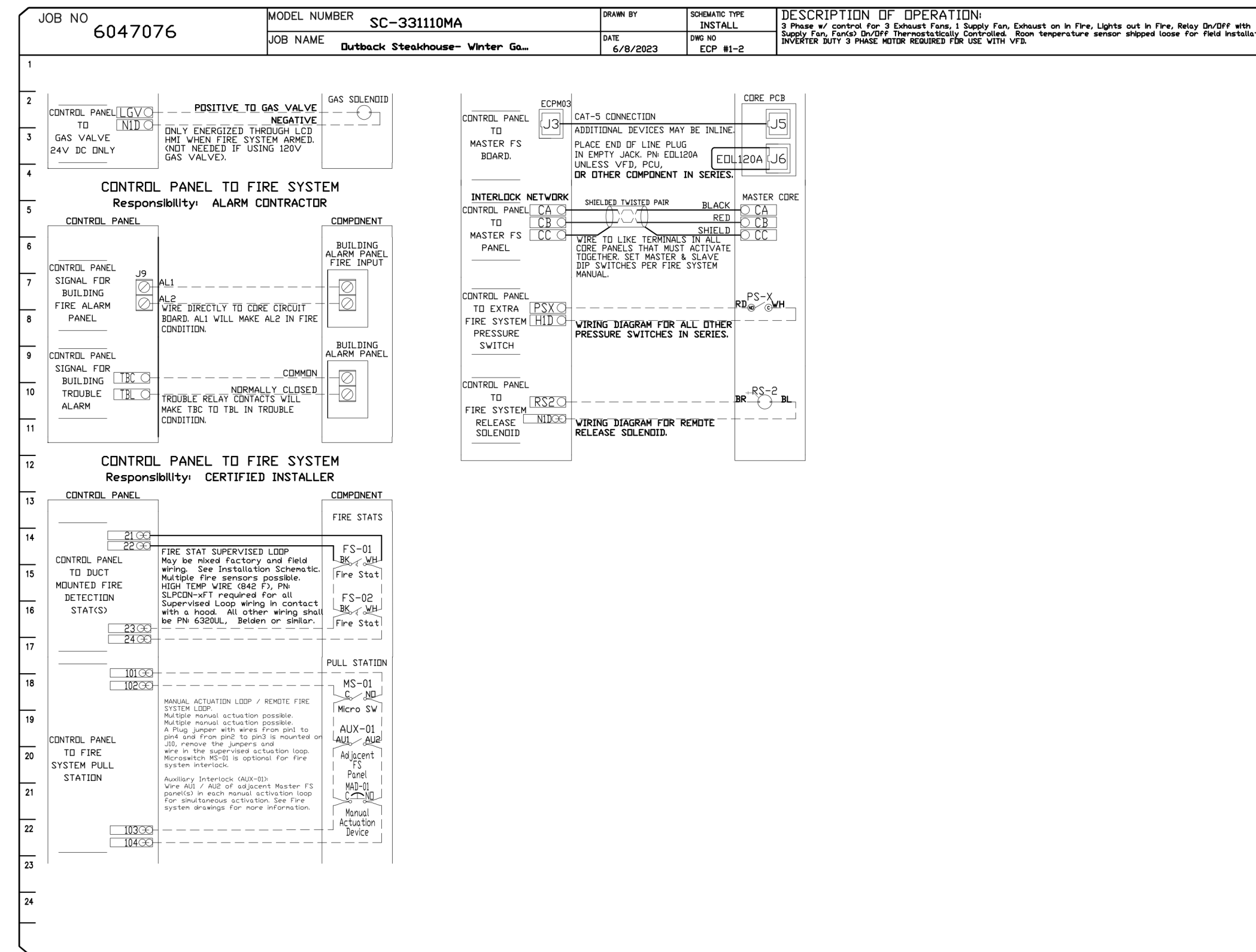
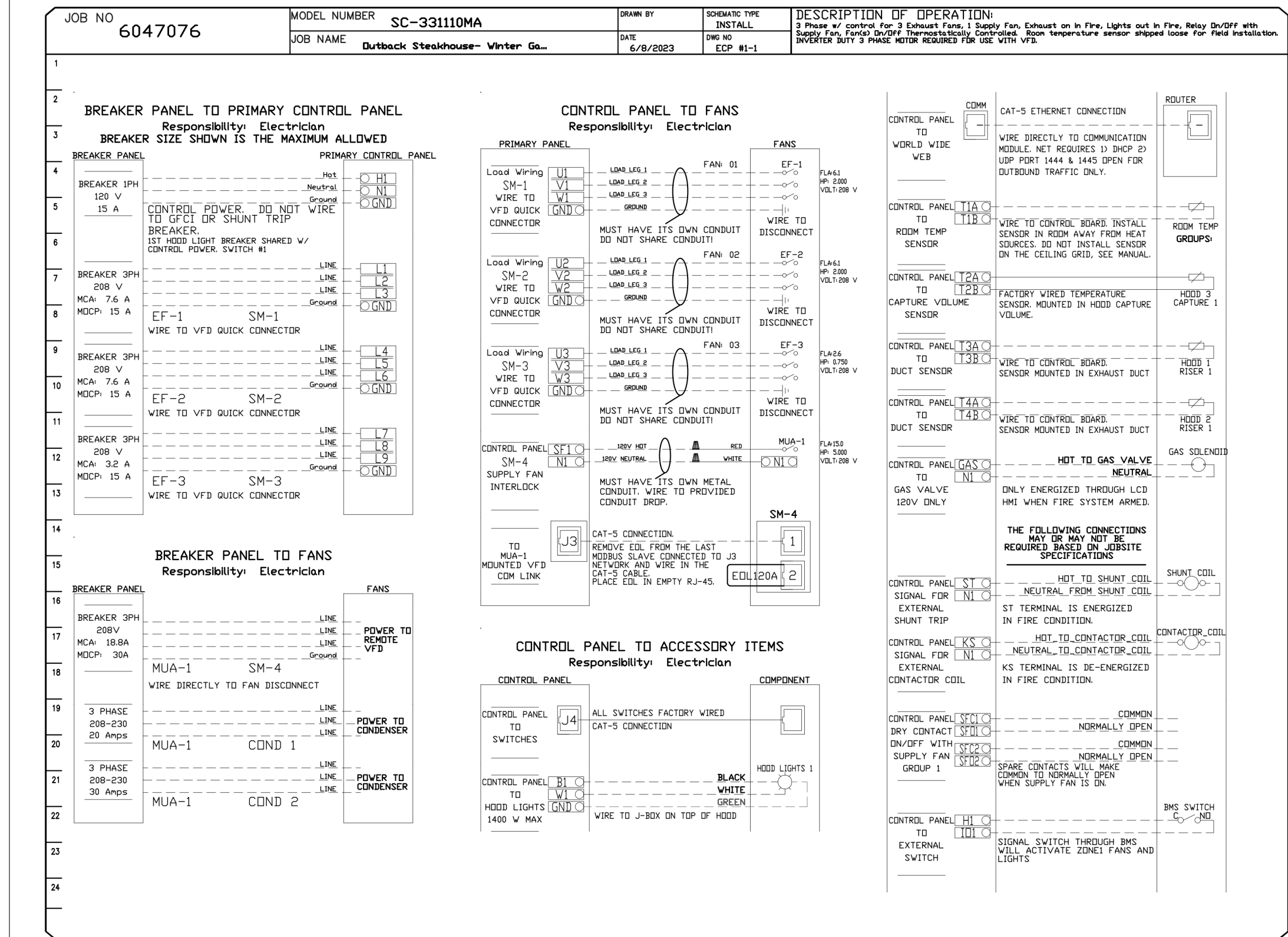
SHEET TITLE:
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SHEET NO. PROJ. NO.
 9 2023231.02

MH109

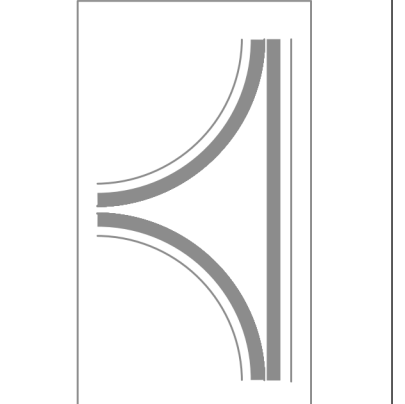
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ELECTRICAL PACKAGE - JOB#6047076																														
NO	TAG	PACKAGE #	LOCATION	QUANTITY	OPTION																									
1		SC-33110MA	UTILITY CABINET RIGHT	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL V/ RELAY ON/OFF WITH SUPPLY																									
<table border="1"> <thead> <tr> <th colspan="2">FANS CONTROLLED</th> <th>HP</th> <th>VOLTS</th> <th>FLA</th> </tr> </thead> <tbody> <tr> <td>EF-1</td> <td>EXHAUST</td> <td>3</td> <td>2000</td> <td>208 6.1</td> </tr> <tr> <td>EF-2</td> <td>EXHAUST</td> <td>3</td> <td>2000</td> <td>208 6.1</td> </tr> <tr> <td>EF-3</td> <td>EXHAUST</td> <td>3</td> <td>0.750</td> <td>208 2.6</td> </tr> <tr> <td>MUA-1</td> <td>SUPPLY</td> <td>3</td> <td>5.000</td> <td>208 15.0</td> </tr> </tbody> </table>						FANS CONTROLLED		HP	VOLTS	FLA	EF-1	EXHAUST	3	2000	208 6.1	EF-2	EXHAUST	3	2000	208 6.1	EF-3	EXHAUST	3	0.750	208 2.6	MUA-1	SUPPLY	3	5.000	208 15.0
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 TELEPHONE 704-844-6907 FAX 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Winter Garden, FL
 WINTER GARDEN, FL, 34787

DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 10



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 STORE #2044
 16323 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: Approve
 PROJECT ARCHITECT: Checker
 DRAWN BY: Author

SHEET TITLE:
HOOD DETAILS

SHEET NO. 10

PROJ. NO. 2023231.02
MH110

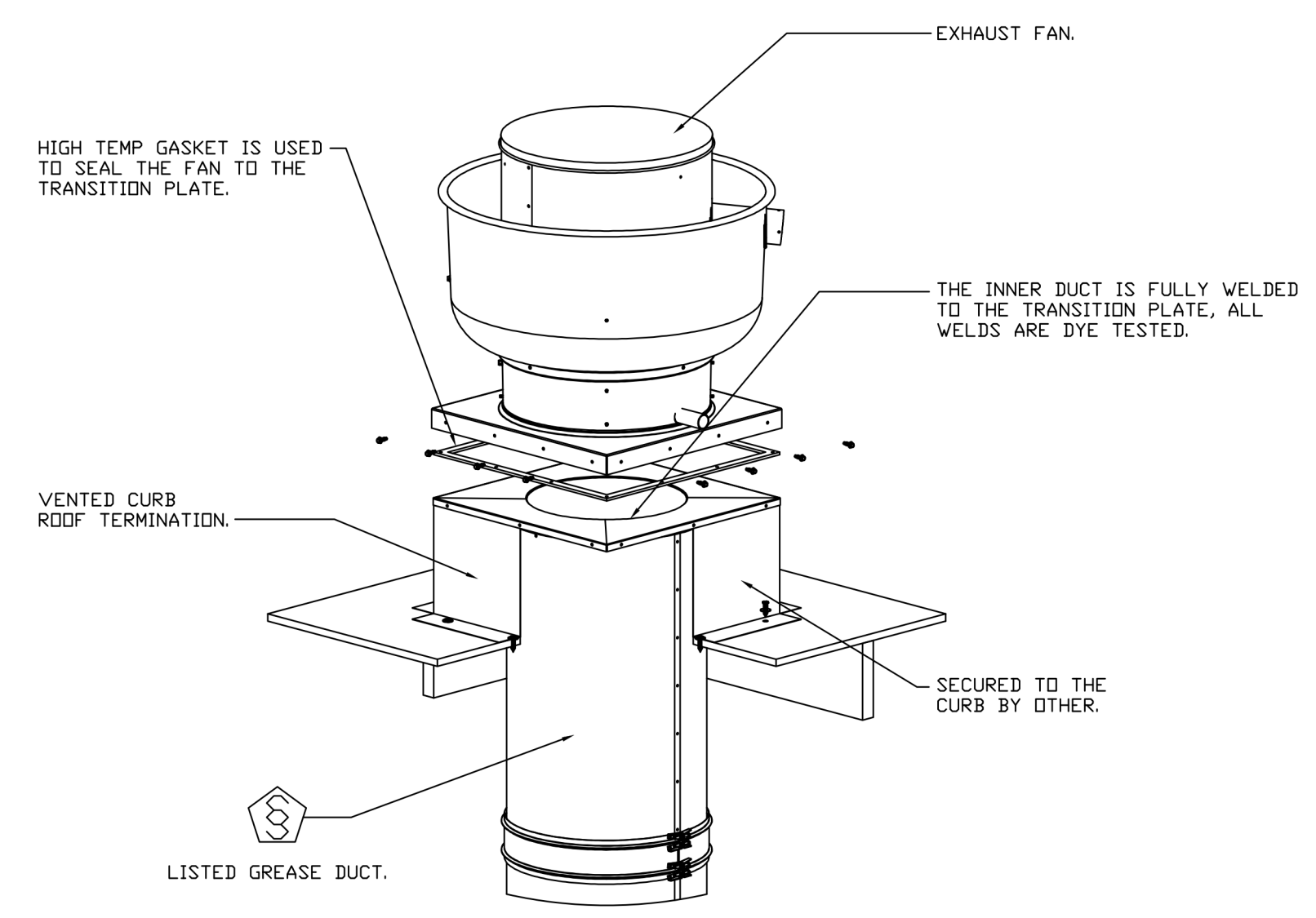
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GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO GREASEMASTER MODEL "GDW"
 ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "GDW"
 IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
 CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "GDW"
 DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
 THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
 PER MANUFACTURES LISTING MODEL "GDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE
 SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
 DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE
 ACCUMULATION IN HORIZONTAL RUNS.

 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE
 UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY
 EQUAL TO GREASEMASTER MODEL "GDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430
 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____



NOTE:
 DUCT NOTES FOR
 REFERENCE, DUCT TO BE
 SUPPLIED BY THE
 MECHANICAL CONTRACTOR.

REVISIONS	
DESCRIPTION	DATE

GREASE MASTER™
 608 MATTHEWS-MINT HILL RD, STE 105, MATTHEWS, NC 28105
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Outback Steakhouse- Winter Garden, FL
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DATE: 6/8/2023
DWG.#: 6047076
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 12



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 STORE #2044
 16323 NEW INDEPENDENCE PKWY
 WINTER GARDEN, FL 34787

SHEET ISSUE:
 08/14/2023 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: _____ Approver
 PROJECT ARCHITECT: _____ Checker
 DRAWN BY: _____ Author

SHEET TITLE:
HOOD DETAILS

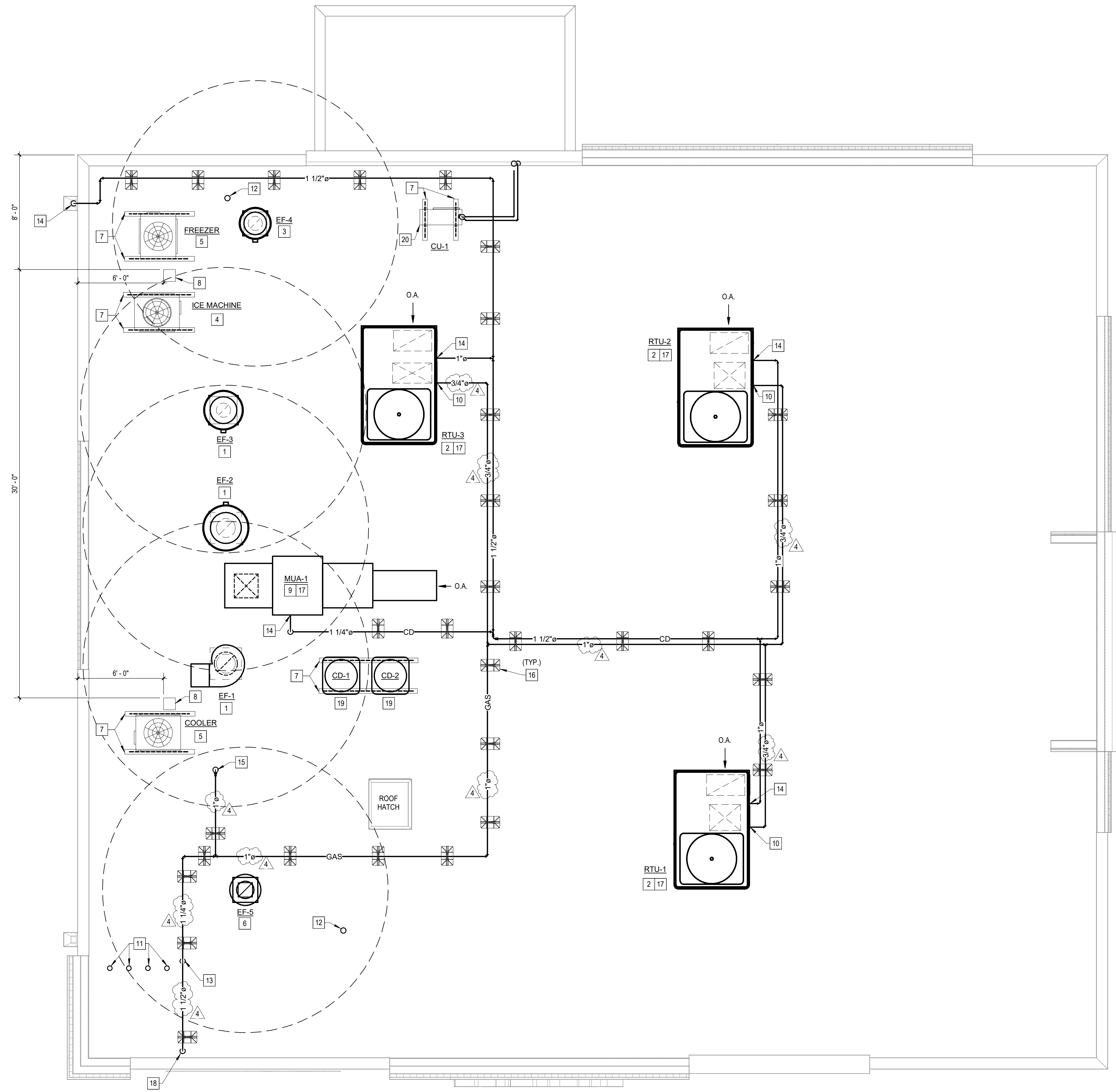
SHEET NO. _____ PROJ. NO. 2023231.02

MH112

SHEET KEYNOTES

- TYPE I GREASE EXHAUST FAN. REFER TO HOOD PLANS AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. PROVIDE CODE COMPLIANT DUCTWORK AND CLEARANCES. COORDINATE FLASHING AND WEATHERPROOFING WITH GC. COORDINATE EXACT LOCATION WITH GC AND STRUCTURE.
- ROOFTOP UNIT. REFER TO SCHEDULES AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
- DISHWASHER EXHAUST FAN. INTERLOCK WITH DISHWASHER CONTROLS. REFER TO HOOD PLANS AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
- CONDENSING UNIT FOR ICE MACHINE, FURNISHED BY KITCHEN EQUIPMENT SUPPLIER, INSTALLED BY MC.
- CONDENSING UNITS FOR WALK-IN BOX, FURNISHED BY KITCHEN EQUIPMENT SUPPLIER INSTALLED BY MC.
- EXHAUST FAN FOR PUBLIC RESTROOM. REFER TO SCHEDULES AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
- PROVIDE ROOF RAIL SUPPORT FOR REFRIGERATION CONDENSING UNIT. REFER TO ARCHITECTURAL DRAWINGS.
- GANGED REFRIGERANT LINES AND CONDUIT FROM WALK-IN UNITS THROUGH ROOF. REFER TO ARCHITECTURAL AND FOODSERVICE PLANS.
- MAKE-UP AIR UNIT. UNIT FURNISHED WITH THE HOOD EXHAUST FANS AND INSTALLED BY THE MECH. CONTRACTOR.
- ROUTE GAS PIPING ALONG ROOF AND CONNECT TO MECHANICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE GAS REGULATOR, 3/8" DIRT LEG, GAS SHUT-OFF VALVE, AND UNION PRIOR TO FINAL CONNECTION.
- WATER HEATER CONCENTRIC VENTS THRU ROOF. OFFSETS UNDER ROOF SHOWN ON THIS PLAN FOR CLARITY. REFER ALSO TO P-102. OFFSET UNDER ROOF 24" (MIN.) FROM PARAPET AND TERMINATE 24" (MIN.) ABOVE THE TOP OF THE PARAPET. TERMINATE WITH MFR APPROVED CAP. TYPICAL.
- TERMINATE VENT THROUGH ROOF (VTR) 12" MIN. ABOVE TOP OF PARAPET, UNLESS PREVAILING CODE STATES OTHERWISE. SUPPORT AS REQUIRED. BY P.C.
- GAS PIPING DOWN THROUGH ROOF TO WATER HEATERS. REFER TO SHEET P-102 FOR CONTINUATION. CONTRACTOR TO PROVIDE GAS REGULATOR, REF. P203.
- ROUTE CONDENSATE DRAIN TO NEAREST ROOF DRAIN. ENSURE THAT NO PART OF PIPING, INCLUDING SUPPORTS, INTERFERES WITH ROOF OR OVERFLOW SCUPPERS AND ROOF DRAINAGE.
- GAS PIPING DOWN THROUGH ROOF TO KITCHEN EQUIPMENT BELOW. CONTRACTOR TO PROVIDE GAS REGULATOR, REF. P203.
- CONDENSATE SUPPORT. REFER TO DETAIL ON SHEET P202 (TYPICAL).
- REFER TO SHEET M301 FOR SCHEDULES AND MECHANICAL EQUIPMENT & FOR WEIGHTS. REFER TO HOOD DRAWINGS FOR EXHAUST FANS AND MAKE-UP AIR UNIT WEIGHTS.
- GAS PIPING UP THROUGH ROOF UTILIZING PATE PIPE CURB AND PIPE ACROSS ROOF.
- CONDENSATE UNIT FOR MAKE-UP AIR UNIT MUA-1. REFER TO HOOD DRAWINGS FOR ADDITIONAL INFORMATION. ROUTE REFRIGERANT LINES ALONG ROOF. PROVIDE SUPPORTS AS REQUIRED.
- CONDENSING UNIT MOUNTED ON ROOF. EXTEND RS AND RL PIPING TO CONDENSING UNIT AND CONNECT AS REQUIRED. TYP.

NOTE:
REFER TO SHEET P203
FOR GAS PIPE SIZES

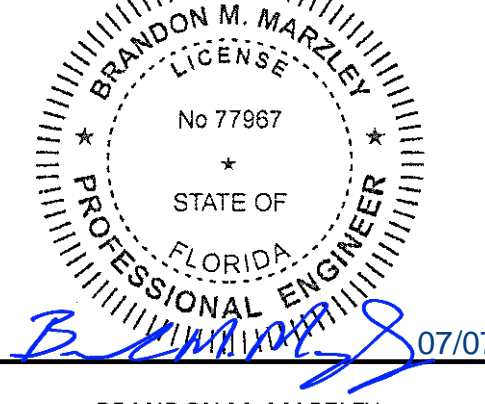


MECHANICAL AND PLUMBING ROOF PLAN
1/4" = 1'-0"



MP GENERAL NOTES

- THE TERM "CONTRACTOR" IS USED TO LAY OUT THE GENERAL CONTRACTOR'S (GC) ULTIMATE RESPONSIBILITIES. THE GC SHALL BE RESPONSIBLE FOR ALL WORK AND FOR COORDINATING THE WORK AND RESPONSIBILITIES OF MECHANICAL, ELECTRICAL, PLUMBING, FIRE, AND OTHER SUB-CONTRACTORS. CONTRACTOR SHALL ALSO COORDINATE WORK WITH THE OWNER'S CONSTRUCTION MANAGER OR REPRESENTATIVE AND WITH VENDORS SUPPLYING EQUIPMENT.
- CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE FULLY LICENSED WITH STATE AND MUNICIPALITY WHERE REQUIRED AND SHALL BE EXPERIENCED IN ALL AREAS OF REQUIREMENTS AFFECTING THEIR WORK.
- ALL WORK SHALL BE COMPLETE, FULLY FUNCTIONAL, AND COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES. THE INTERNATIONAL ENERGY CONSERVATION CODE, AND WITH THE AUTHORITIES HAVING JURISDICTION (A.H.J.), APPLY TO THE ARCHITECT FOR A COPY OF RELEVANT SECTIONS OF THE BELOW CODES AND STANDARDS IF REQUIRED. ANY WORK IN VIOLATION OF THE BELOW CODES SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER. COMPLY WITH THE MOST CURRENT STANDARDS OF THE CODES LISTED ON COVER SHEET AND THE FOLLOWING:
 - A. 2017 ICC/IBC1171, ANSI STANDARDS FOR ACCESSIBLE DESIGN
 - B. NFPA 13 - INSTALLATION OF SPRINKLER SYSTEMS
 - C. NFPA 54 - NATIONAL FUEL GAS CODE
 - D. NFPA 72 - NATIONAL FIRE ALARM CODE
 - E. NFPA 96 - VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
 - F. NFPA 101 - LIFE SAFETY CODE
 - G. LOCAL HEALTH DEPARTMENT
 - H. STATE FIRE MARSHAL
 - I. OSHA CODE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- MATERIALS, EQUIPMENT, APPLIANCES, AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST STANDARDS OF:
 - A. AGA - AMERICAN GAS ASSOCIATION
 - B. AMCA - AIR MOVING AND CONDITIONING ASSOCIATION
 - C. ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
 - D. ADA - AMERICANS WITH DISABILITIES ACT
 - E. ARI - AIR CONDITIONING AND REFRIGERATION INSTITUTE
 - F. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
 - G. ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - H. ASSE - AMERICAN SOCIETY OF SURVEYORS
 - I. ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
 - J. AWWA - AMERICAN WATER WORKS ASSOCIATION
 - K. CSMA - CERTIFIED BALLAST MANUFACTURERS ASSOCIATION
 - L. ETL - ENVIRONMENTAL TESTING LABORATORY
 - M. FM - FACTORY MUTUAL
 - N. IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
 - O. IES - ILLUMINATING ENGINEERING SOCIETY
 - P. IPCEA - INSULATED POWER CABLE ENGINEERS ASSOCIATION
 - Q. ISS - MANUFACTURERS STANDARDIZATION SOCIETY
 - R. NBBPVI - NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS
 - S. NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
 - T. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - U. NSF - NATIONAL SANITATION FOUNDATION
 - V. PLUMBING AND DRAINAGE INSTITUTE
 - W. SMACNA - SHEET METAL & AIR CONTRACTORS' NATIONAL ASSOCIATION
 - X. UL - UNDERWRITERS LABORATORIES INC.
- MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECT, AND BEAR UNDERWRITERS LABORATORIES LABELS OR OTHER NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED. PROVIDE COMPLETE WITH ALL TRIM AND OPTIONS REQUIRED FOR PROPER OPERATION, UNLESS NOTED OTHERWISE.
- ALL INFORMATION INDICATED ON THESE DRAWINGS HAS BEEN OBTAINED FROM EXISTING PLANS, REPORTS, AND PHOTOS FROM OTHERS, AND/OR FROM SITE SURVEYS. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL WORK SHOWN ON THESE DRAWINGS WITH EXISTING CONDITIONS, PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT AND MATERIAL.
- THESE PLANS AND SPECIFICATIONS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL DETAILS, DEVICES, AND METHODS OF CONSTRUCTION REQUIRED IN ORDER TO ACHIEVE A FIRST CLASS, WORKMANLIKE, CODE COMPLIANT RESULT. DO NOT SCALE. ALL DIMENSIONS SHALL BE SHOWN ON DRAWINGS.
- ALL OVERHEAD UTILITIES INCLUDING BUT NOT LIMITED TO CONDUIT, SPRINKLER PIPE, ROOF DRAINS ARE TO BE RAN PARALLEL OR PERPENDICULAR TO STRUCTURE AT ALL OPEN CEILING AREAS.
- PRIOR TO SUBMITTING A FINAL BID, CONTRACTORS WILL CONFIRM THAT THE CONTRACTOR HAS COMPLIED WITH THE BELOW REQUIREMENTS. NO EXTRAS WILL BE ALLOWED FOR EXISTING CONDITIONS THAT HAVE BEEN READILY OBSERVED OR INFERRED FROM THE EXISTING CONDITIONS OR FROM THE PLANS.
 - A. STUDY THE NEW CIVIL (WHERE APPLICABLE), ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS AND SPECIFICATIONS.
 - B. VISIT THE SITE AND PERFORM A THOROUGH EXAMINATION AND EVALUATION OF ALL EXISTING CONDITIONS.
 - C. NOTIFY THE ARCHITECT IN WRITING OF ANY SIGNIFICANT DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND THE DOCUMENTS NOTED ABOVE.
 - D. CONTACT THE ARCHITECT OR THE ENGINEER IF FURTHER DIRECTION OR ADDITIONAL EXPLANATIONS IS REQUIRED ON ANY ITEM.
 - E. INCLUDE AN ALLOWANCE IN THE BID TO COVER ANY ADDITIONAL COST DUE TO NOTED DISCREPANCIES, EXISTING CONDITIONS, OBSERVATIONS, ETC.
- CONTRACTOR SHALL PAY FOR ALL PERMITS REQUIRED FOR WORK AND SHALL SCHEDULE INSPECTIONS WITH A.H.J. IN A TIMELY MANNER TO ALLOW COMPLETION OF PROJECT ON SCHEDULE.
- THE FIRE DETECTION (WHERE REQUIRED) AND FIRE PROTECTION (SPRINKLER) SYSTEMS SHALL BE DESIGN / BUILD BY A STATE LICENSED, LOCALLY EXPERIENCED, FIRE ALARM AND FIRE SPRINKLER SUB-CONTRACTORS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT PLANS IN COMPLIANCE WITH N.F.P.A., N.E.C. AND LOCAL CODE AND OBTAIN APPROVAL FROM THE FIRE MARSHAL OR A.H.J. DO NOT REUSE THE EXISTING DETECTORS AND DEVICES WITHOUT THE EXPRESS, WRITTEN, APPROVAL OF THE ARCHITECT OR ENGINEER.
- UTILITY INFORMATION SHOWN ON THE PLANS ARE FROM PRELIMINARY CONTACT WITH THE RESPECTIVE UTILITIES AND/OR FROM INFORMATION PROVIDED BY OTHERS. THE CONTRACTORS SHALL CONTACT THE UTILITY COMPANIES PRIOR TO BIDDING TO OBTAIN THE MOST UP TO DATE INFORMATION AND INSTALLATION REQUIREMENTS. PAY ALL PERMIT, CONNECTION, METER, AND OTHER FEES. REPORT ANY DISCREPANCY TO THE ARCHITECT OR ENGINEER. INCLUDE ALL COSTS IN THE BASE BID.
- CONTRACTOR SHALL REQUEST UTILITY COMPANIES LOCATE AND MARK ALL UNDERGROUND WATER PIPES, SANITARY SEWERS, GAS PIPES, ELECTRICAL AND COMMUNICATIONS CONDUITS AND DUCT BANKS, ETC. PRIOR TO DIGGING OR TRENCHING ON SITE. CONTRACTOR SHALL BE FULLY RESPONSIBLE AND BEAR COST FOR REPAIRING ANY UTILITY DAMAGE ON SITE.
- REVIEW PLANS AND SPECIFICATIONS, VERIFY ALL CONNECTION POINTS, DIMENSIONS, AND FIELD CONDITIONS, AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT OR ENGINEER FOR CLARIFICATION PRIOR TO ORDERING MATERIALS OR PERFORMING ANY WORK IN QUESTION.
- WHERE A DISCREPANCY MAY EXIST BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS DESCRIBED BY NOTE OR SPECIFICATION, THE CONTRACTOR SHALL PROVIDE THE GREATER QUANTITY, THE BETTER QUALITY, THE MORE STRINGENT, AND GREATER COST ITEM(S) OR REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO SUBMITTING FINAL BID. CONTACT ARCHITECT PRIOR TO FINAL BID FOR CLARIFICATION IF ANY DISCREPANCY IS FOUND.
- CONTRACTOR SHALL CAREFULLY INSPECT ALL EQUIPMENT RECEIVED AND VERIFY THAT IT IS COMPATIBLE WITH THE MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS PRIOR TO INSTALLING EQUIPMENT. CONTACT ARCHITECT OR ENGINEER FOR DIRECTION IF ANY DISCREPANCY ARISES.
- ALL MATERIAL AND EQUIPMENT SHALL FIT IN THE SPACE AVAILABLE. ALL DIMENSIONS AND CLEARANCES SHALL BE VERIFIED AT THE FACILITY BEFORE COMMENCING WORK. ALL WORKING CLEARANCES AROUND EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- ALL INSTALLED SYSTEMS, EQUIPMENT, DEVICES, AND APPURTENANCES SHALL BE TESTED IN PLACE TO CONFIRM THAT IT MEETS CODE AND THESE PLANS AND SPECIFICATIONS. REPLACE ALL CONTRACTOR FURNISHED ITEMS AT CONTRACTOR'S EXPENSE PRIOR TO CALLING FOR FINAL INSPECTION OR SUBMITTING FOR FINAL PAYMENT.
- SUBSTITUTIONS AND SUBSTITUTIONS: THE CONTRACTOR SHALL SUBMIT INFORMATION TO THE OWNER FOR ALL EQUIPMENT, DEVICES, AND PIPING COMPONENTS INTENDED TO BE PROVIDED FOR THIS PROJECT WITHIN 15 BUSINESS DAYS FROM CONTRACT AWARD. IT SHALL BEAR THE GC'S REVIEW STAMP. HIGHLIGHT SUBSTITUTIONS FOR EQUIPMENT AND MATERIALS AND WARRANT THAT SUBSTITUTED EQUIPMENT IS EQUAL TO THAT SPECIFIED.
- MATERIALS USED IN AIR PLENUMS, DUCTS, AIR HANDLING EQUIPMENT, AND WHERE REQUIRED BY A.H.J. SHALL HAVE A MAXIMUM FLAME SPREAD OF 25 AND SMOKE DEVELOPMENT OF 50 AS TESTED IN ACCORDANCE WITH NFPA-255, UL723, AND ASTM E84. DO NOT USE PVC IN RETURN AIR PLENUMS. USE ONLY PLENUM RATED MATERIALS IN RETURN AIR PLENUMS AND REQUIRED SPACES.
- ALL PIPING, CONDUIT, DUCT, ETC. SHALL BE PROPERLY SUPPORTED FROM STRUCTURE. PIPE HANGERS AND SUPPORTS SHALL COMPLY WITH MISS SP-58-2009. INSTALLATION METHODS SHALL COMPLY WITH MISS SP-58-2009. PROTECT INSULATION WITH SECTION OF CALCIUM SILICATE PIPE INSULATION AND A HALF-ROUND SHEET METAL SHIELD ON THE OUTSIDE OF INSULATION. SHIELD SHALL BE 12" LONG OR SHALL EXTEND 2' BEYOND EITHER SIDE OF HANGER IF LONGER.
- CONTRACTOR SHALL USE EXTREME CARE IN SELECTION AND MOUNTING METHODS FOR INSTALLATION OF EQUIPMENT TO INSURE THAT NOISE AND VIBRATION ARE HELD TO A MINIMUM. USE VIBRATION ISOLATORS, SPRINGS, DAMPENING MATERIALS, ETC. WHERE REQUIRED. ON MOTOR DRIVEN SYSTEMS EXCEEDING 1/2 HP, PROVIDE VIBRATION ISOLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR EQUAL TO MEETS NOISE CONTROL, WHERE NOISE CONTROL IS RECOMMENDED IS MADE.
- REFER TO ARCHITECT'S SPECIFICATIONS AND NOTES FOR CUTTING, TRENCHING, AND PATCHING. PAINT ALL CONDUIT, PIPING, DUCTS, AND DEVICES EXPOSED TO PUBLIC PER ARCHITECTURAL PLANS OR TO MATCH ADJACENT BUILDING SURFACE, UNLESS NOTED OTHERWISE.
- UNLESS OTHERWISE SPECIFIED, ALL REQUIRED CUTTING AND PATCHING OF FLOORS, WALLS, ROOF, PARTITIONS AND OTHER MATERIALS IN THE BUILDING IS TO BE INCLUDED IN THE SCOPE. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION UPON COMPLETION. ALL PENETRATIONS OF WALLS, CEILINGS, OR FLOORS SHALL BE CORE-DRILLED, SLEEVED, AND SEALED TO COMPLY WITH RESPECTIVE BUILDING CODE REQUIREMENTS. ALL PENETRATIONS THROUGH FIRE RATED WALL SHALL COMPLY WITH TESTED SLEEVE ASSEMBLY REQUIREMENTS. ROOF PENETRATIONS SHALL COMPLY WITH ROOF MANUFACTURER'S RECOMMENDATIONS. REFER ALSO TO ARCHITECTURAL REQUIREMENTS FOR WATER-PROOFING.



BRANDON M. MARZLEY
LICENSE No. 77967

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE #2044
16323 NEW INDEPENDENCE PKWY
WINTER GARDEN, FL 34787

SHEET ISSUE:

1	08/14/2023	ISSUED FOR PERMIT
2	04/26/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
3	10/04/2024	PROTOTYPE UPDATES
4	03/21/2025	ISSUED FOR CONSTRUCTION

PRINCIPAL IN CHARGE: BW
PROJECT ARCHITECT: PH
DRAWN BY: DJ

MECHANICAL AND PLUMBING ROOF PLAN

SHEET NO. PROJ. NO. 2023231.02

MP200