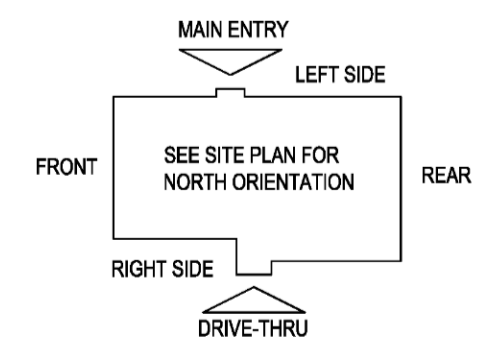


**E5 HVAC PLAN**  
SCALE: 1/4" = 1'-0"



**SUPPLY DUCTWORK SIZING TABLE\***

ROUND		RECTANGULAR	
SIZE	CFM RANGE	SIZE	CFM RANGE
8"	115 - 235	8"x8"	205 - 300
10"	240 - 435	10"x8"	305 - 400
12"	440 - 710	10"x10"	405 - 550
14"	715 - 1,070	12"x10"	555 - 700
16"	1,075 - 1,530	12"x12"	705 - 900
18"	1,535 - 2,090	14"x12"	905 - 1,105
20"	2,095 - 2,760	16"x12"	1,110 - 1,315
22"	2,765 - 3,550	18"x12"	1,320 - 1,520
24"	3,555 - 4,470	20"x12"	1,525 - 1,740
		22"x12"	1,745 - 1,950
		24"x12"	1,955 - 2,170
		26"x12"	2,175 - 2,400
		28"x12"	2,405 - 2,610
		30"x12"	2,615 - 2,840
		32"x12"	2,845 - 3,070
		34"x12"	3,075 - 3,290
		36"x12"	3,295 - 3,520
		36"x14"	3,525 - 4,420

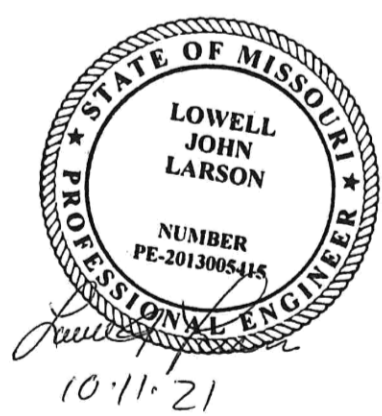
\*CONTRACTOR MAY SUBSTITUTE RECTANGULAR FOR ROUND DUCTWORK ON MAIN RUNS AT THEIR DISCRETION. BRANCHES TO DIFFUSERS TO REMAIN ROUND.

**NOTE:** ALL DUCTWORK TO BE LOCATED IN TRUSS SPACE WHERE POSSIBLE. SEE FRAMING PLAN.  
HVAC SETPOINTS RECOMMENDED BY CORPORATE OPERATIONAL GUIDELINES:  
1. DINING: HEATING 70 DEGF, COOLING 72 DEGF  
2. KITCHEN: HEATING 68 DEGF, COOLING 74 DEGF

**DIFFUSER, REGISTER, AND GRILLE SCHEDULE**

TAG	SERVICE	TYPE	MATERIAL	THROW	FACE	NECK	MOUNTING	MANUFACTURER/MODEL	Notes
SD-1	SUPPLY	LOUVERED	STEEL	4-WAY	24X24	SEE PLAN	LAY-IN	CARNES SFP24	2,4
SD-2 - NOT USED									
SD-3	SUPPLY	LOUVERED	STEEL	3-WAY	SEE PLAN	SEE PLAN	SURFACE	CARNES SKSA	2,4
SD-4	SUPPLY	LOUVERED	STEEL	4-WAY	12X12	SEE PLAN	SURFACE	CARNES SKSA	1,2,4
SD-5	SUPPLY	PERFORATED	STEEL	PERFORATED	24X24	SEE PLAN	LAY-IN	CARNES SPRB24	2,4
RG-1	RETURN	SQUARE EGGRATE	ALUMINUM	N/A	24X24	22x22	LAY-IN	CARNES RAPMF	2,3,4
EG-1	RETURN	LOUVERED GRILLE	STEEL	N/A	12X12	SEE PLAN	SURFACE	CARNES RTLAH	1,2,4
TG-1	TRANSFER	LOUVERED GRILLE	STEEL	N/A	SEE PLAN	SEE PLAN	SURFACE	CARNES RTLAH	2,4

**DIFFUSER NOTES:**  
1. PROVIDE w/ ADJUSTABLE OPPOSED BLADE DAMPER  
2. VERIFY ALL DIFFUSERS AND RETURN GRILLE COLORS WITH OWNER AND ARCHITECT  
3. PROVIDE w/ 22X22 PLENUM BOX  
4. ALL DIFFUSERS AND RETURNS LOCATED IN BLACK CEILING SHALL BE FLAT BLACK FINISH.



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**NEW CULVER'S RESTAURANT**  
15978 Manchester Rd.  
Ellisville, MO 63011  
County of ST LOUIS

**OWNER:**  
VSD Properties Ellisville  
12751 Hazel Lane  
St. Louis, MO 63141  
Daniel Siemer  
314-517-4864

**LOWELL JOHN LARSON - ENGINEER**  
MO# 201806415  
OLLMANN ASSOCIATES ARCHITECTS  
200 South State Street  
Belleville Illinois 61008  
815-544-7790 Phone  
MO State Certificate of Authority #W00997886

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**HVAC PLAN, DIFFUSER SCHEDULE**

Date: 7-19-2021  
Revision:

2020-036  
**M101**



NEW CULVER'S RESTAURANT  
15978 Manchester Rd.  
Ellisville, MO 63011  
County of ST LOUIS

**Culver's**  
Culver Franchising System, Inc.  
1240 Water Street  
Prairie du Sac, WI 53578  
608-643-7980

OWNER:  
VSD Properties Ellisville  
12751 Hezel Lane  
St. Louis, MO 63141  
Daniel Slamer  
314-517-4864

LOWELL JOHN LARSON - ENGINEER  
MOR 2013005415  
COLLMANN ASSOCIATES ARCHITECTS  
200 South State Street  
Belleville Illinois 61008  
815-544-7790 Phone  
MO State Certificate of Authority #W00967896

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GRIDDLE HOOD/EXHAUST  
SCHEDULE & DETAILS  
Date: 7-19-2021  
Revision:

2020-036  
M202

EQUIPMENT SCHEDULE

TYPE 1 KITCHEN HOOD										MARK: ITEM#49	
HOOD NO.	ACCUREX MODEL STYLE / CONFIGURATION	HOOD DIMENSIONS			GREASE CUP OR DRAIN	HOOD TEMP. RATING	TOTAL WEIGHT	SECTION LOCATION	MARK: ITEM#49		
		SECTION LENGTH	WIDTH	HEIGHT					MARK: ITEM#49	MARK: ITEM#49	
1	XP2P-64S SINGLE WALL EXHAUST ONLY LOW PROXIMITY	64 IN.	TOP 23 IN FRONT 12 IN BOY 8 IN BACK 36 IN	RIGHT	600 DEG F	136.0 LBS	SINGLE				

HOOD NO.	FIXTURE TYPE BULB / LAMP INFO	QTY	INTENSITY FT CANDLES	GREASE FILTRATION DETAILS	
				TYPE / MODEL MATERIAL	QTY LENGTH HEIGHT
1	NONE	NA	0 / 0 IN. CC	GREASE GRABBER STAINLESS STEEL	4 16 IN. 16 IN.

HOOD SECTION # COLLAR #	EXHAUST PLENUM COLLARS					
	DISTANCE TO END (IN.)	WIDTH (IN.)	LENGTH (IN.)	DIAMETER (IN.)	S.P. (IN. WC)	VELOCITY (FT/MIN)
1/1	32	12	12	NA	1500	1.515
TOTAL EXHAUST CFM - SECTION 1						1500 = 281 CFM / FT

OPTIONS AND ACCESSORIES  
430 STAINLESS STEEL WHERE EXPOSED  
UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625  
BACK NON-INTEGRAL AIR SPACE - 3 IN WIDE  
28 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED  
FACTORY MOUNTED EXHAUST COLLAR(S)  
THIS HOOD IS PART OF A TEMPERATURE INTERLOCK CONTROL SYSTEM  
INCLUDES PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY  
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH  
EMBOSSED STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE  
EQUIPMENT SPECIFIC S/S FLUE ADAPTER

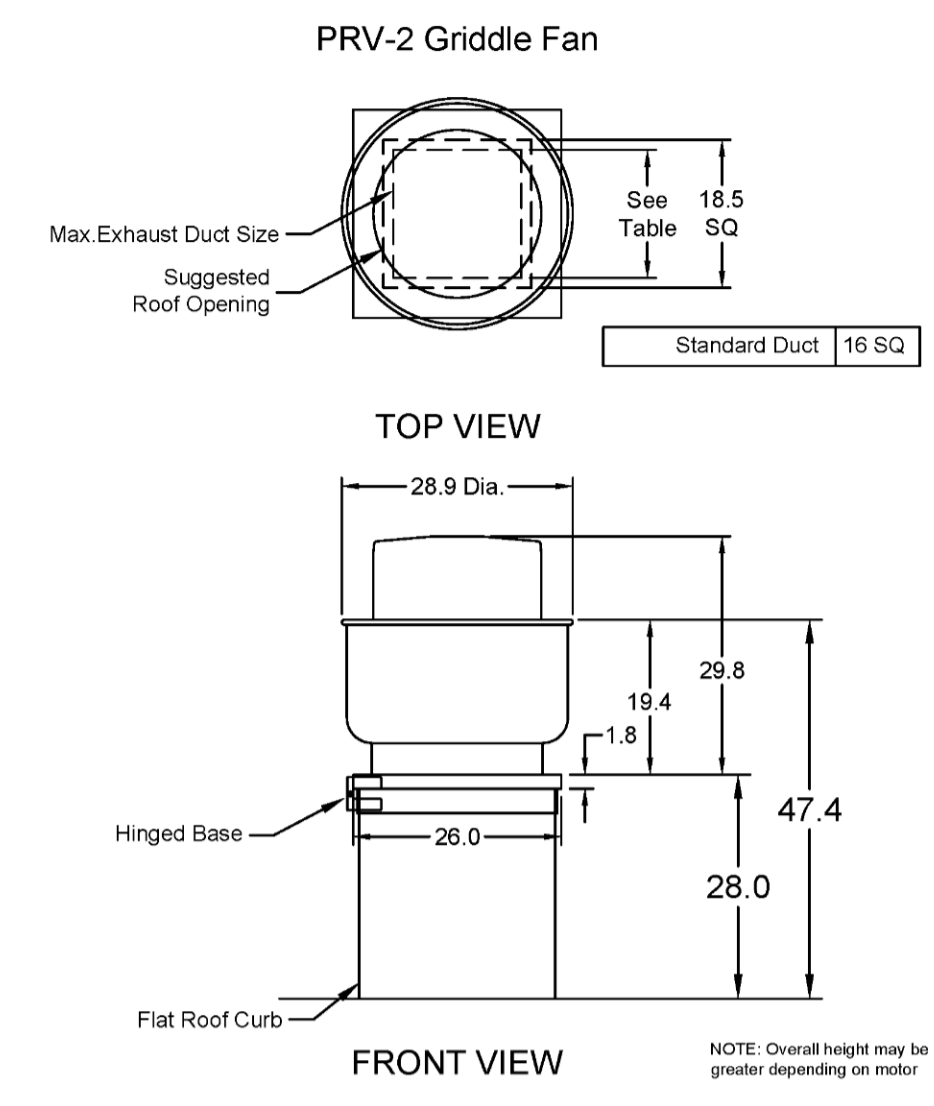
SPECIAL DESIGN REQUESTS				
SDR #K1100145 - FLUE BYPASS HOOD				
FIRE SUPPRESSION SYSTEM				
MANUFACTURER / MODEL SUPPRESSANT TYPE	FLOW POINTS	SUPPLY LINE	DETECTION	MOUNTING
ANSUL R-102 WET CHEMICAL	6 UTILIZED 11 AVAILABLE	CONTINUOUS	FUSIBLE LINK	RIGHT END REMOTE MOUNTED

FULL INSTALLATION INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL  
CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED  
SUPPRESSION AGENT - INCLUDED - 3 GAL. - (1) 3 TANK(S)  
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, SUPPLIED UP TO 2"  
STANDARD PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS  
METAL BLOW-OFF CAPS - INCLUDED  
FIRE SYSTEM PERMIT - REQUIRED - FEE INCLUDED  
360°F. FUSIBLE LINK OR AS TESTED AND INSTALLED BY LOCAL INSTALLER PER UL MANUAL

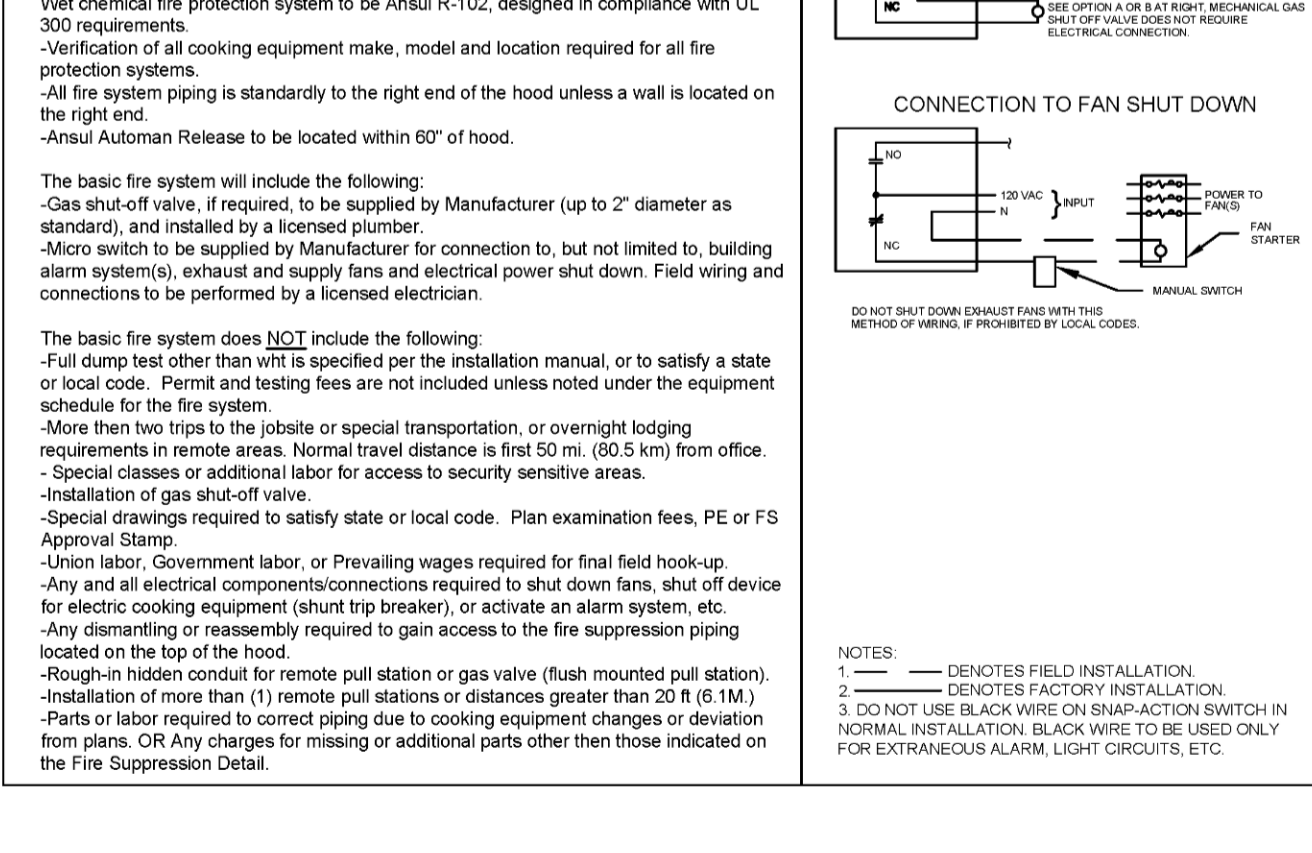
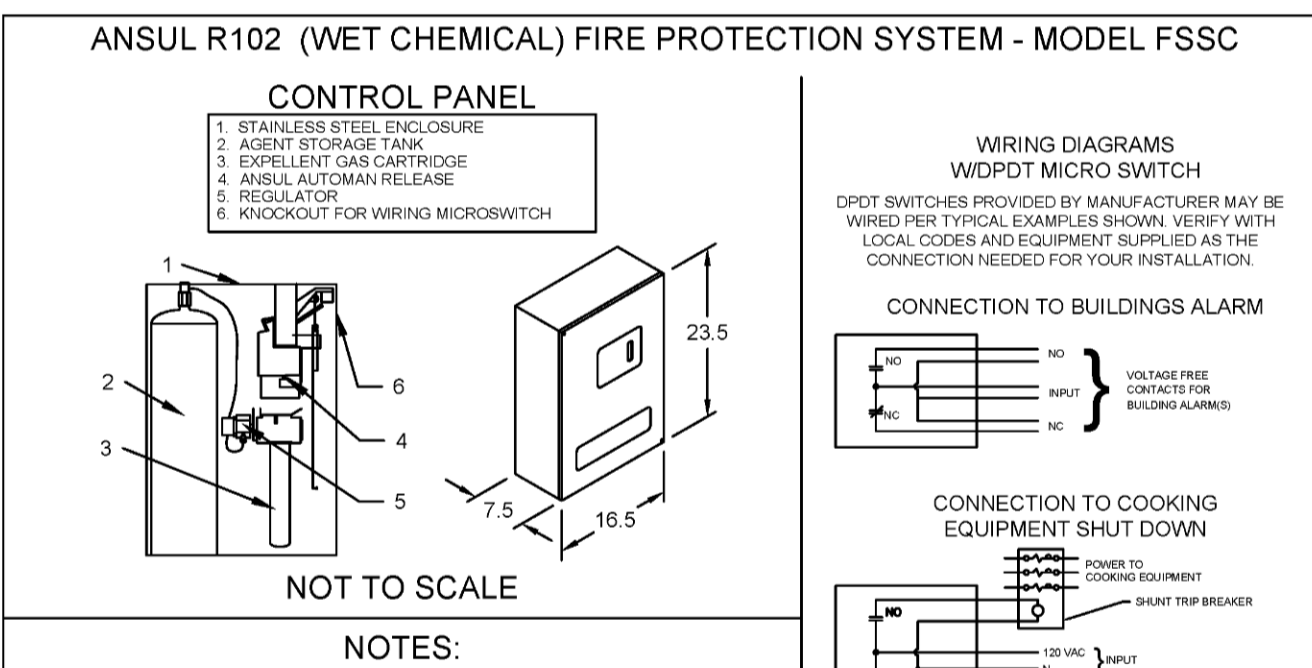
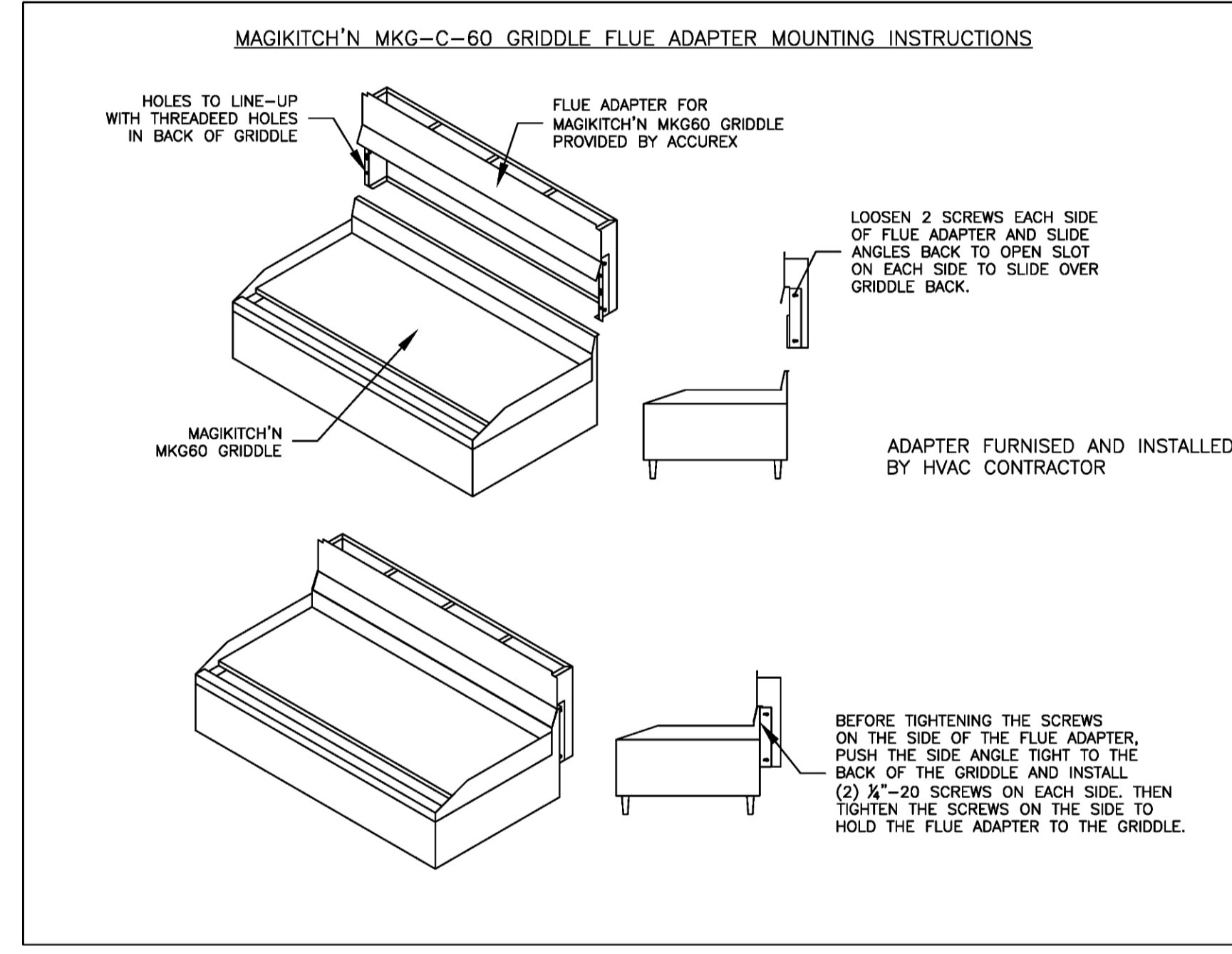
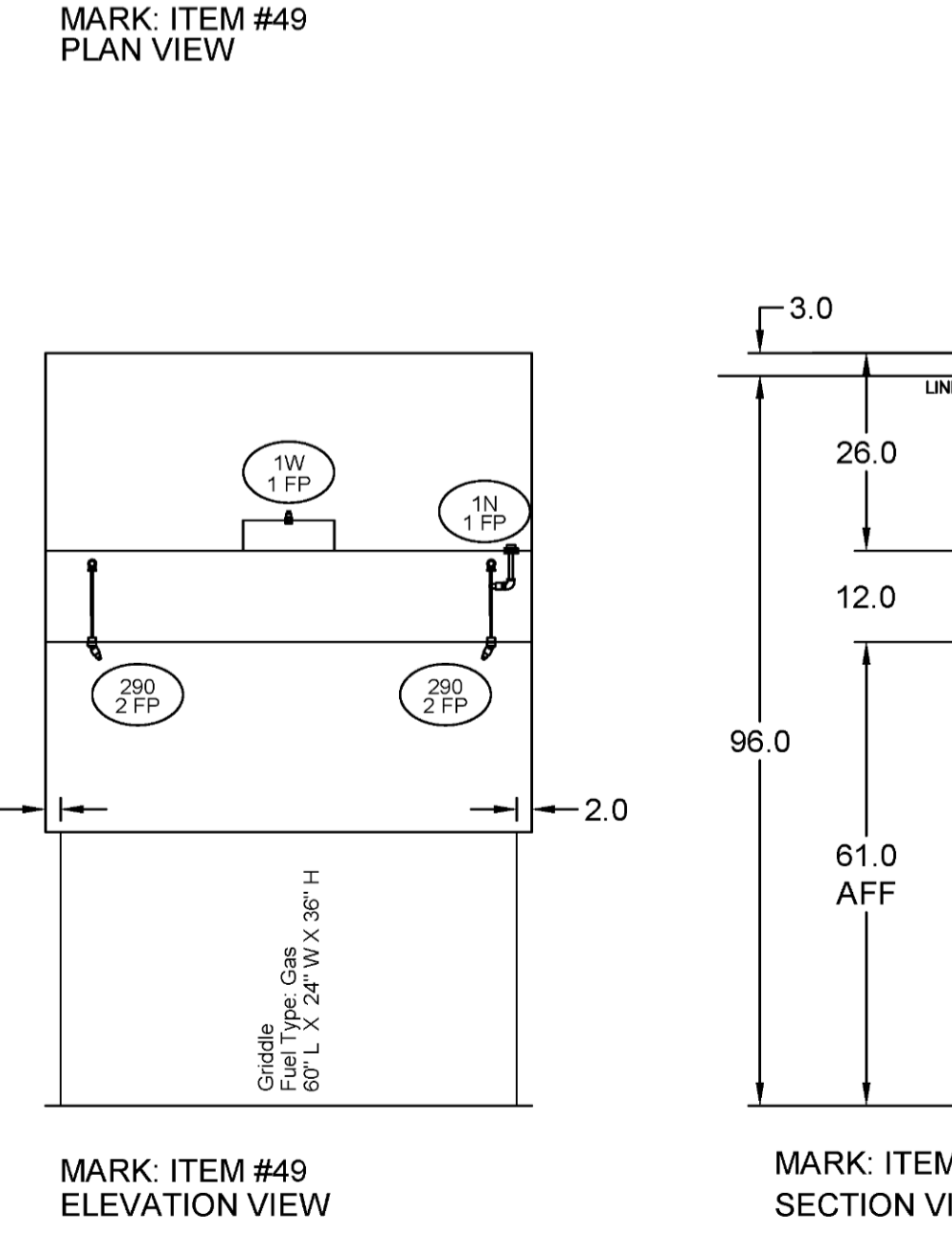
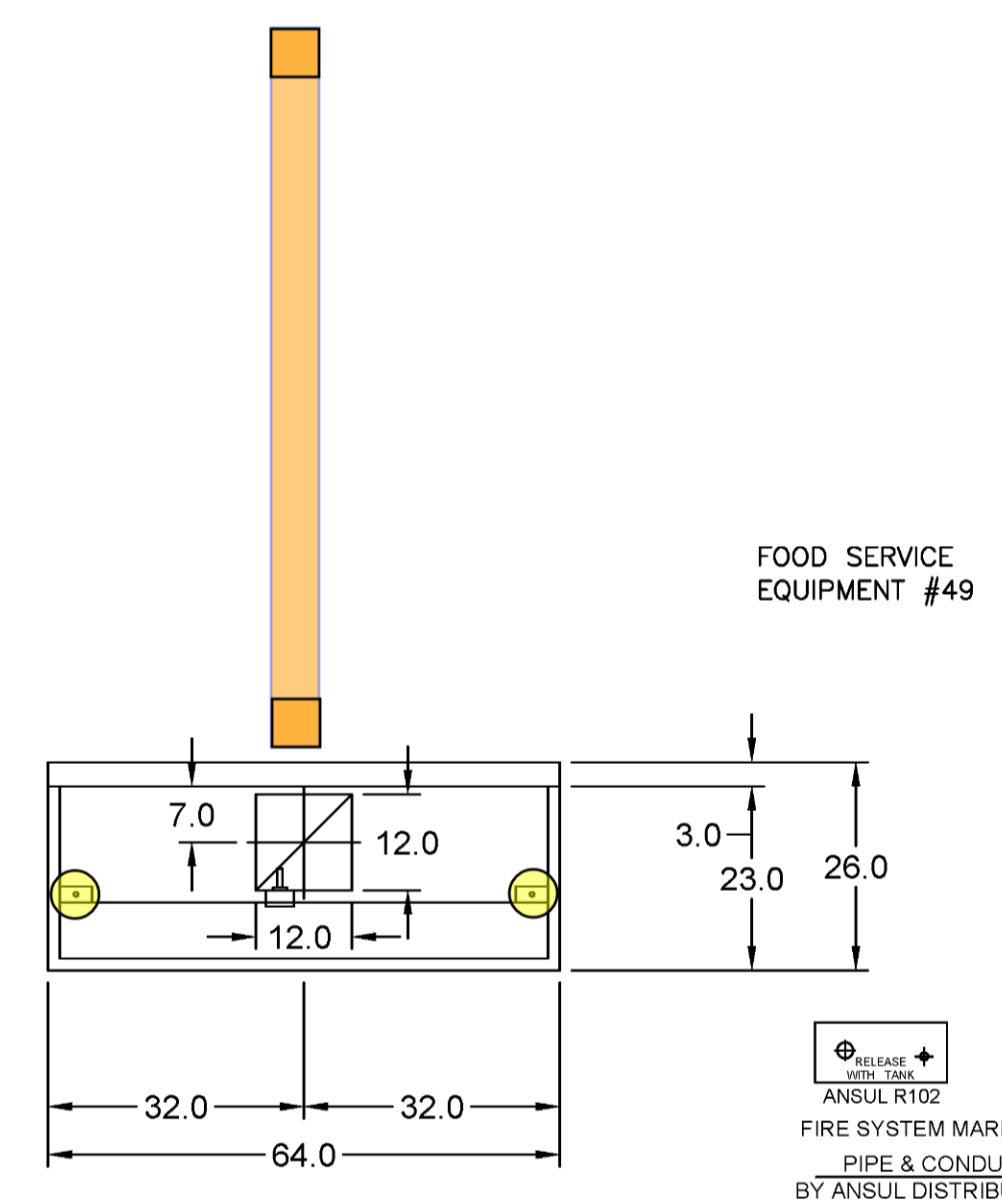
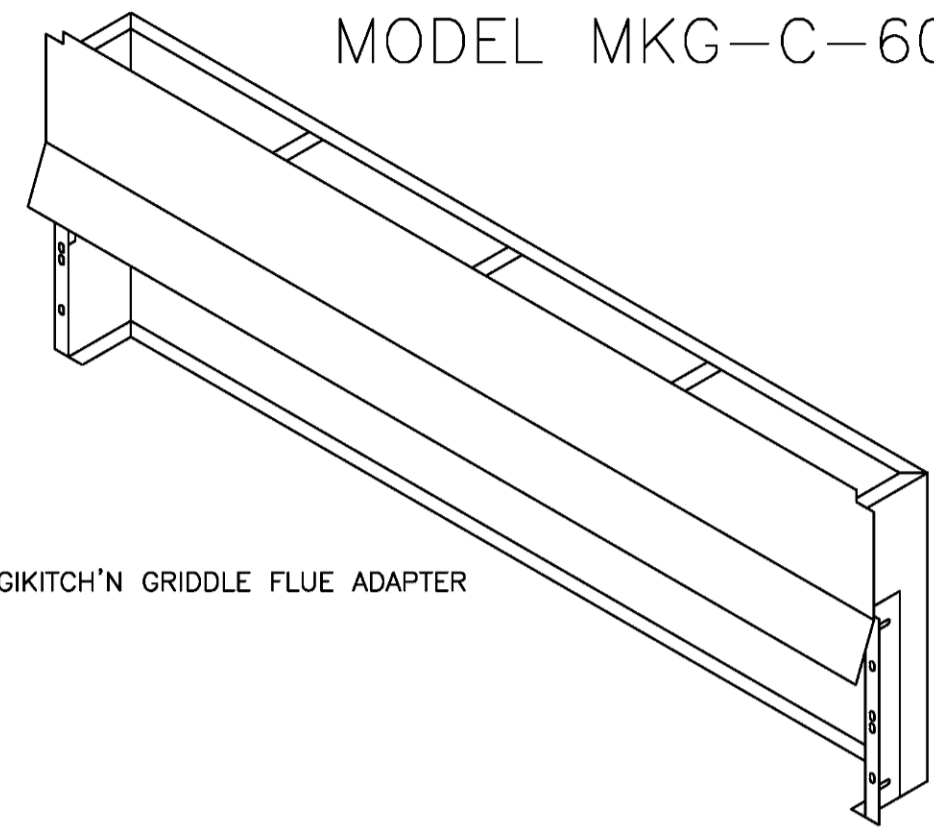
GRILL HOOD SECTION 1 - (LENGTH 64.0 IN.) - LOW PROXIMITY HOOD - GREASE GRABBER FILTRATION SYSTEM									
Belt Drive Upblast Centrifugal Roof Exhaust Fan									
Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (in)	V/CP	Motor Information
1	XRUB-160XP-15	1500	2.337	2,411	1.29	171	1.5	208/60/3	OP 1725 1 6.6

UL/CUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances"  
Switch, NEMA-1, (PN N1TSDN-3-30) Toggle. Shipped with unit  
Larger curb case size - 28" Square  
Roof curb-Galv. GPF-26-G28, Under sized 1.5" Total  
Hinged Base (Attached)  
High Temp Curb Seal Rated for Continuous duty at 2000F (Attached)  
Clean-out Port  
Grease Trap with Drain Connection (PN 475538)  
Heat Baffle (Attached)  
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

OPTIONS AND ACCESSORIES									
UL/CUL 762 Listed - "Power Ventilators for Rest. Exh. Appliances" Switch, NEMA-1, (PN N1TSDN-3-30) Toggle. Shipped with unit									
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MUST USE WITH MAGKITCH'N MODEL MKG-C-60



Thank you for your interest in Accurex

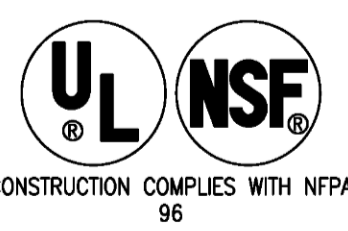
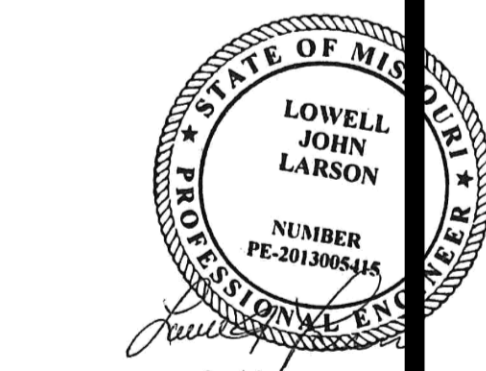
SUBMITTAL  
Please return one approved print to your Greenheck Representative including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

APPROVED AS SUBMITTED  
 APPROVED AS NOTED  
 REJECTED - REVISE AND RESUBMIT

SIGNATURE: DATE:

REV DESCRIPTION DATE

ACCUREX  
CULVER'S MASTER TEMPLATE  
1/24  
C28805A



GENERAL DRAWING NOTES  
Verify building entry conditions or limitations for equipment access to space.  
Verify type and height of finished ceiling and if hood(s) may extend above finished ceiling (if required).  
Seismic installation and bracing of equipment is by others.  
Greenheck will not accept liability for problems that result from sub-standard installation. Including field electrical wiring that deviate from supplied diagrams, plume conditions (ductwork, fuel types and structural conditions) that GFC has not been notified of at the time of ordering. Or use of this equipment other than that for which it is designed.  
It is the responsibility of the purchaser to hire qualified personnel for installation and start-up of all equipment. Installation and start-up information is shipped with all equipment via the Installation, Operation and Maintenance Manual (IOM), also included is a troubleshooting guide. Have all start-up info available prior to any warranty claims and/or factory technical support.

VENTILATION SYSTEM NOTES  
Greenheck ventilators are designed in compliance with all national codes: NFPA # 98, national electric code, BOCA, Uniform mechanical code, international mechanical code, and southern building conference. See national evaluation report #36 for allowable values, and/or conditions of use concerning material presented in this document. Local codes may vary. It is the responsibility of the purchaser to submit drawings to local authorities.  
Exhaust and supply air volumes are to be maintained within -5% to +10% tolerance of values indicated. Static pressure(s) indicated are for the ventilator at the duct connection(s) only.  
The grease filter face velocities are based on the filter manufacturers recommendations for maximum grease extraction. Inlet opening air velocities for waterwash, dry cartridge and high velocity cartridge filters manufactured by Greenheck are designed to deliver maximum grease extraction.  
Hoods installation (by others unless otherwise noted) shall be in accordance with NFPA # 96 and applicable building codes.

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