

FOR QUESTIONS, CALL THE
Paragon National Accounts
REGION 35
PHONE: (919) 882-2410
EMAIL: reg35@captiveaire.com

HOOD INFORMATION - JOB#5664608

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG				
										WIDTH	LENG	HEIGHT	DIA			CFM	VEL	SP	END TO END	ROW
1	K66	4824 ND-2	CAPTIVEAIRE	6' 0"	450 DEG	I	MEDIUM	175	1050			4'	10'	1050	1925	-0.754"	0	430 SS WHERE EXPOSED	ALONE	ALONE
2	K114 Left	5424 ND-2-PSP-F	CAPTIVEAIRE	9' 0"	600 DEG	I	HEAVY	200	1800			4'	14'	1800	1684	-0.888"	1620	430 SS WHERE EXPOSED	LEFT	ALONE
3	K114 Right	5424 ND-2-PSP-F	CAPTIVEAIRE	9' 0"	600 DEG	I	HEAVY	200	1800			4'	14'	1800	1684	-0.888"	1620	430 SS WHERE EXPOSED	RIGHT	ALONE
4	K119	5424 ND-2-PSP-F	CAPTIVEAIRE	14' 0"	600 DEG	I	HEAVY	200	2800			4'	12"	1400	1783	-0.620"	1904	430 SS WHERE EXPOSED	LEFT	ALONE
5	K115	5424 ND-2-PSP-F	CAPTIVEAIRE	14' 0"	600 DEG	I	HEAVY	245	3430			4'	14'	1715	1604	-0.704"	1784	430 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM	HOOD HANGING PIPING WEIGHT
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #		
1	K66	CAPTRATE SOLID FILTER	4	16"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	ND	RIGHT	12"x48"x24"				YES	358 LBS
2	K114 Left	CAPTRATE SOLID FILTER	6	16"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	ND						YES	483 LBS
3	K114 Right	CAPTRATE SOLID FILTER	6	16"	16"	85% SEE FILTER SPEC	3	L55 SERIES E26	ND	RIGHT	12"x54"x24"	TANK FS	4.0/4.0/4.0		YES	863 LBS
4	K119	CAPTRATE SOLID FILTER	10	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	ND	LEFT	12"x54"x24"	TANK FS	4.0/4.0/4.0	DCV-5222	2 LIGHT 2 FAN	1156 LBS
5	K115	CAPTRATE SOLID FILTER	10	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	ND						YES	631 LBS

HOOD OPTIONS

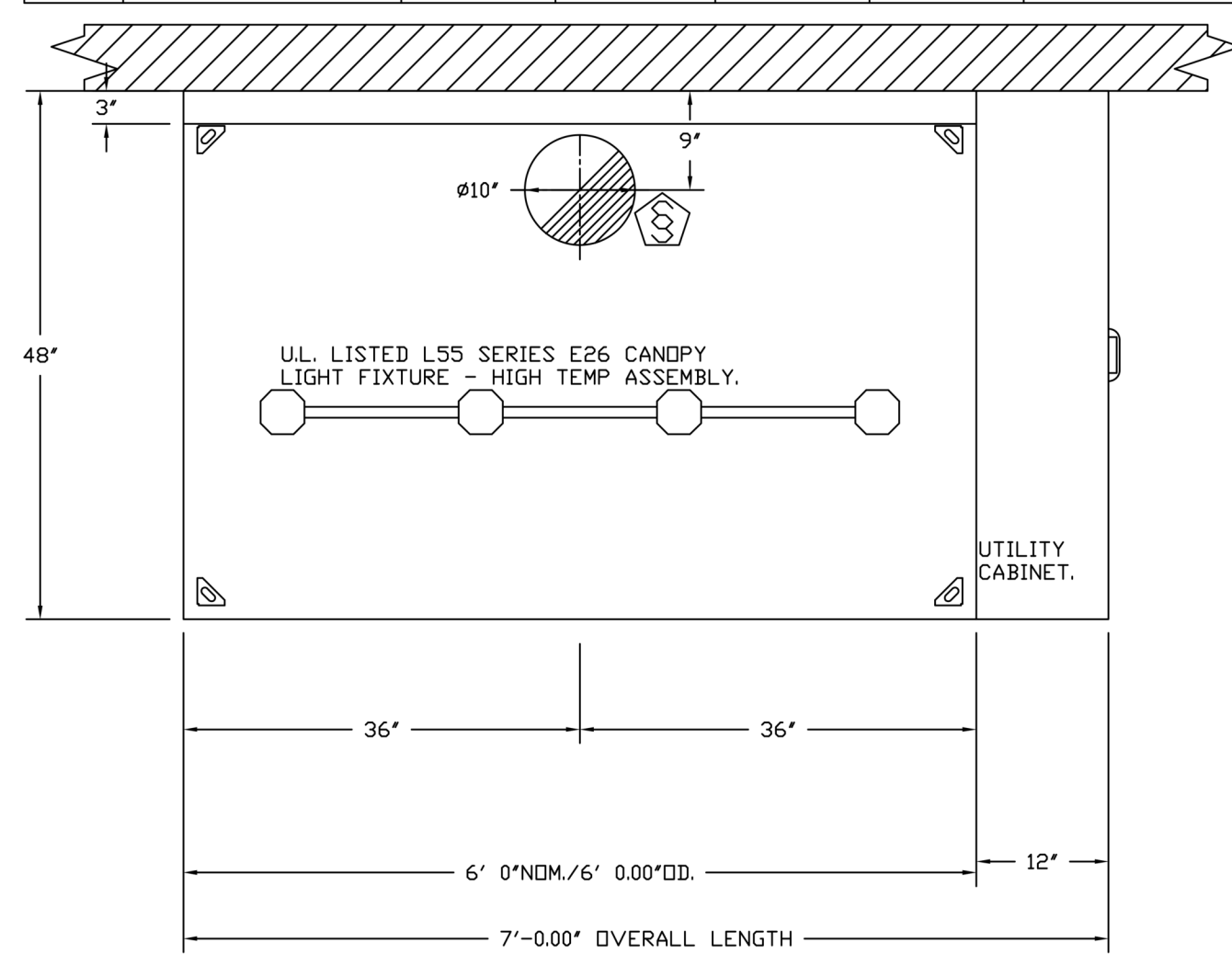
HOOD NO	TAG	OPTION
1	K66	RISER SENSOR INSTALL 6IN PLEN.
2	K114 Left	GFCI DUPLEX OUTLET, 20A 125V - HOOD FRONT LEFT - HORIZONTAL - DIST FROM END: 58.00 DIST FROM BOTTOM: 4.75.
3	K114 Right	GFCI DUPLEX OUTLET, 20A 125V - HOOD FRONT LEFT - HORIZONTAL - DIST FROM END: 58.00 DIST FROM BOTTOM: 4.75.
4	K119	LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS. RISER SENSOR INSTALL 6IN PLEN. DI-PSP 10" 250CFM QTY: 4. RIGHT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
5	K115	RIGHT WALL AS END PANEL.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG	DIA	CFM
2	K114 Left	Front	108"	16"	6"	MUA	12"	28"	810	0.211"
							12"	28"	810	0.211"
3	K114 Right	Front	120"	16"	6"	MUA	12"	28"	810	0.211"
							8"	36"	634	0.154"
4	K119	Front	180"	12"	6"	MUA	8"	36"	634	0.154"
							8"	36"	594	0.136"
5	K115	Front	169"	12"	6"	MUA	8"	36"	594	0.136"
							8"	36"	594	0.136"

DIFFUSER SCHEDULE

TAG	MODEL	CEILING HEIGHT	NOMINAL FACE SIZE	RISER DIA	CFM	DUCT VELOCITY (FPM)	FACE DISCHARGE VELOCITY (FPM)	T50 AFF	SP	NOISE CRITERIA	LINKED FAN	LINKED HOOD
DI-PSP-10-24X24		10'	24 X 24	10	250	459	74	8.00'	0.051'	27		5424ND-2-PSP-F



PLAN VIEW - HOOD #1 (K66)
6' 0.00" LONG 4824ND-2

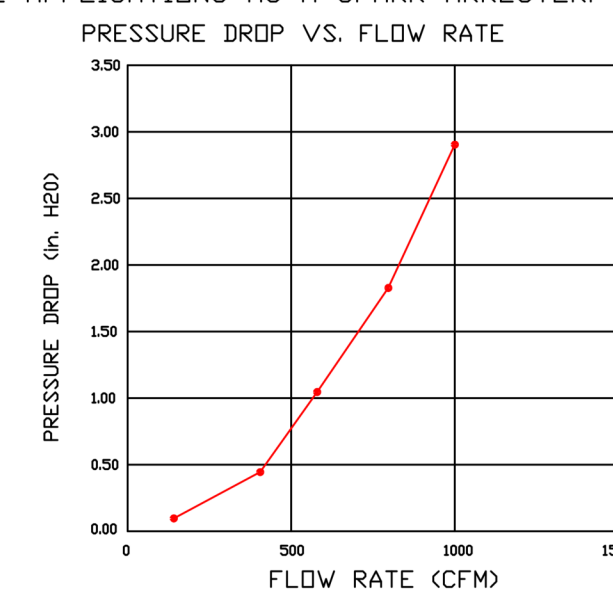
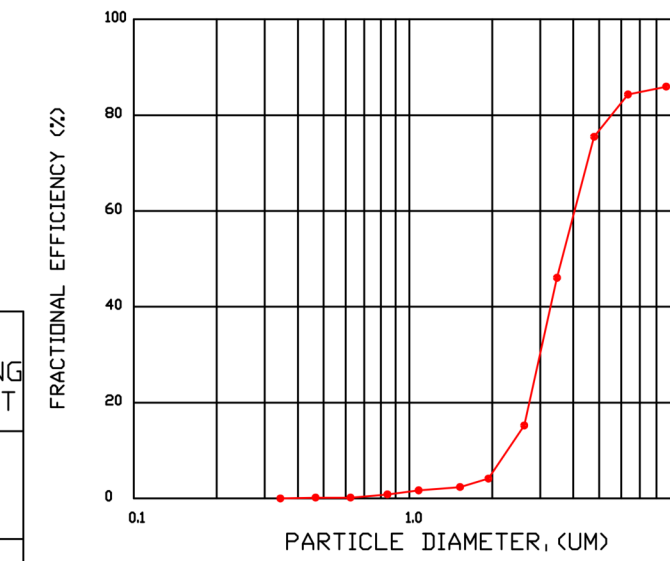
SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

THE CAPTRATE GREASE-STOP SOLID 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 SOLID 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),
UL-C-5649.

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURER'S INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURER LISTING MODEL "DW" 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 CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

VERIFY CEILING HEIGHT
____' - ____"
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

HVAC DISTRIBUTION NOTE
HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

CUSTOMER APPROVAL TO MANUFACTURE:
APPROVED AS NOTED
APPROVED WITH NO EXCEPTION TAKEN
REVISE AND RESUBMIT
SIGNATURE _____ DATE _____
YOUR TITLE _____

REVISIONS	DESCRIPTION	DATE

CAPTIVEAIRE
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Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
DRAWN BY: B. Law
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1



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Landscape Architect:
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Contact: Kori Haug ASLA, CLARB



Architect: Bill D. Pounds

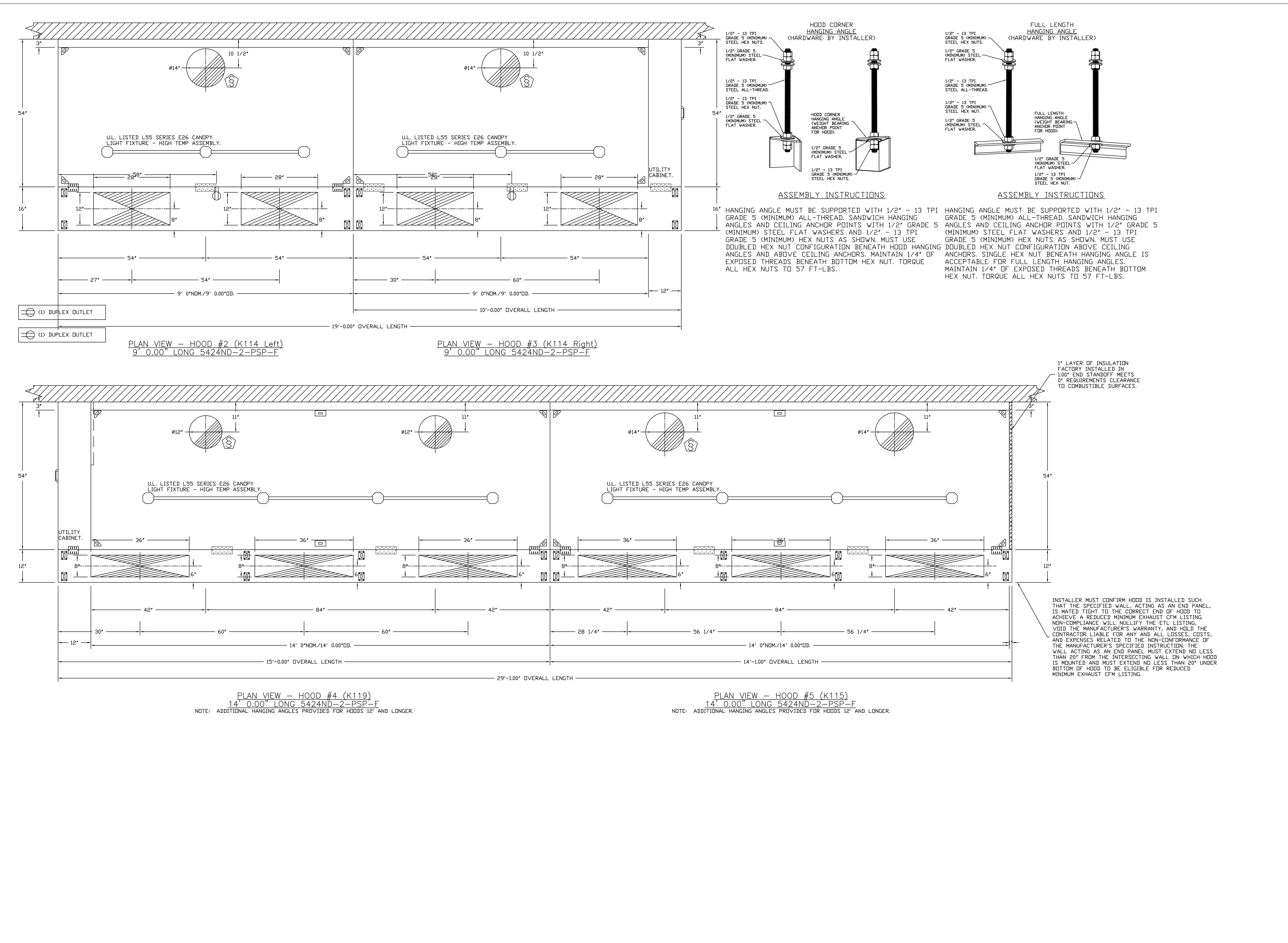
No.	Description	Date
2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

Drawn by: RM
Checked by: DD
Project Number: 04-21715
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Hood Drawings

HD-01

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Parkway C&A, LLP
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979
Project Manager: Construction PM
Contact: 214-111-1111
Architect: Project Architect
Contact: 214-111-1111



REVISIONS	
DESCRIPTION	DATE

CAPTIVE

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Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE:	9/29/2022
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SCALE:	3/4" = 1'-0"
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SHEET NO.	2



Chuy's - New Braunfels
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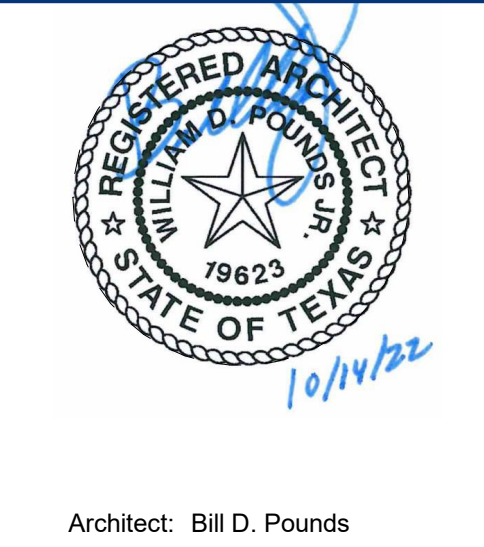
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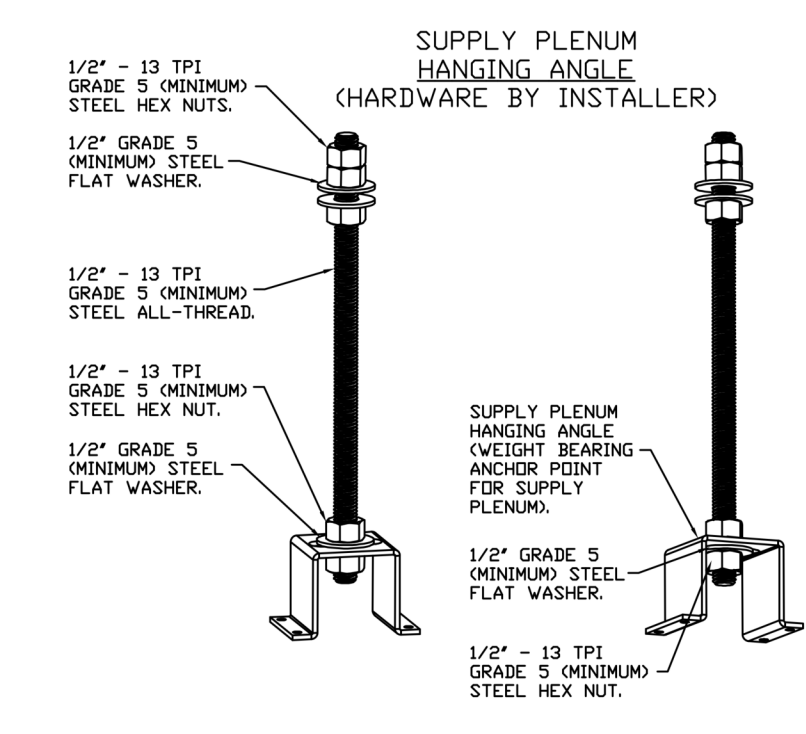
Architect: Bill D. Pounds

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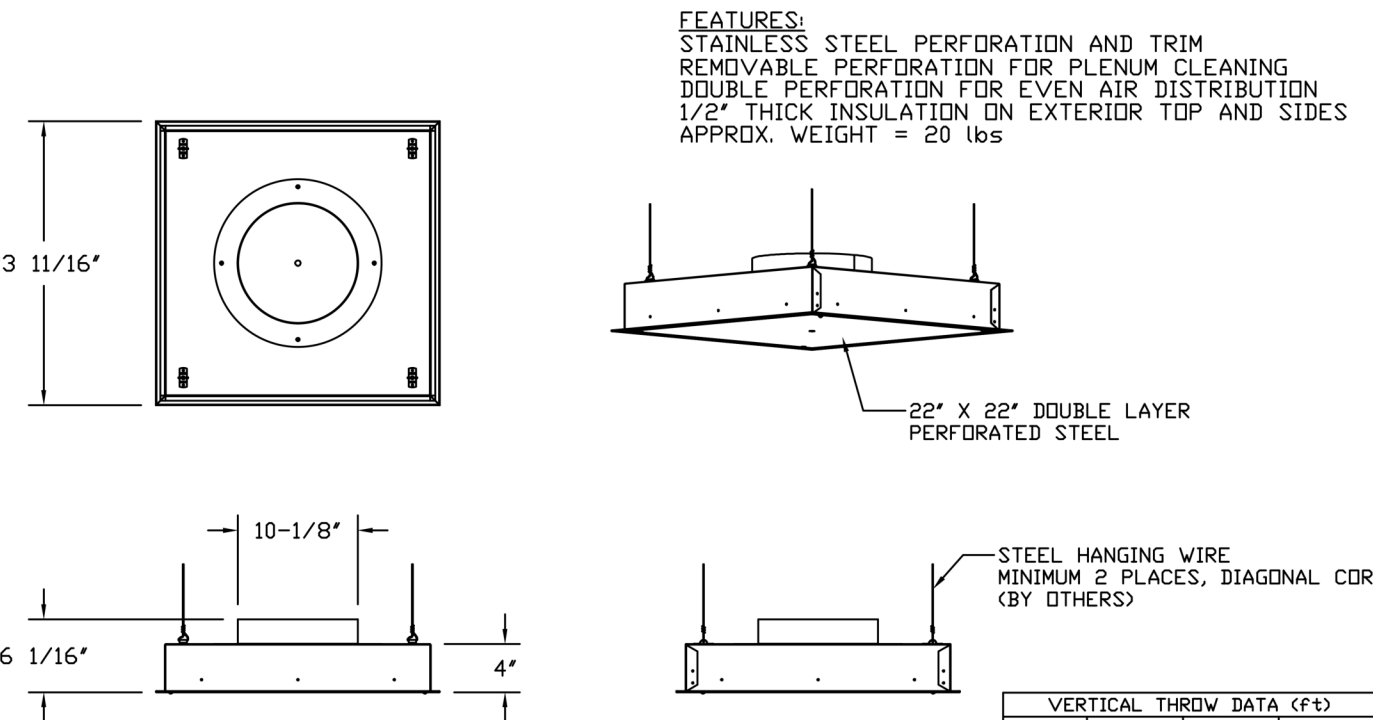
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Hood Drawings

HD-02



QTY 4-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



VERTICAL THROW DATA (FT)

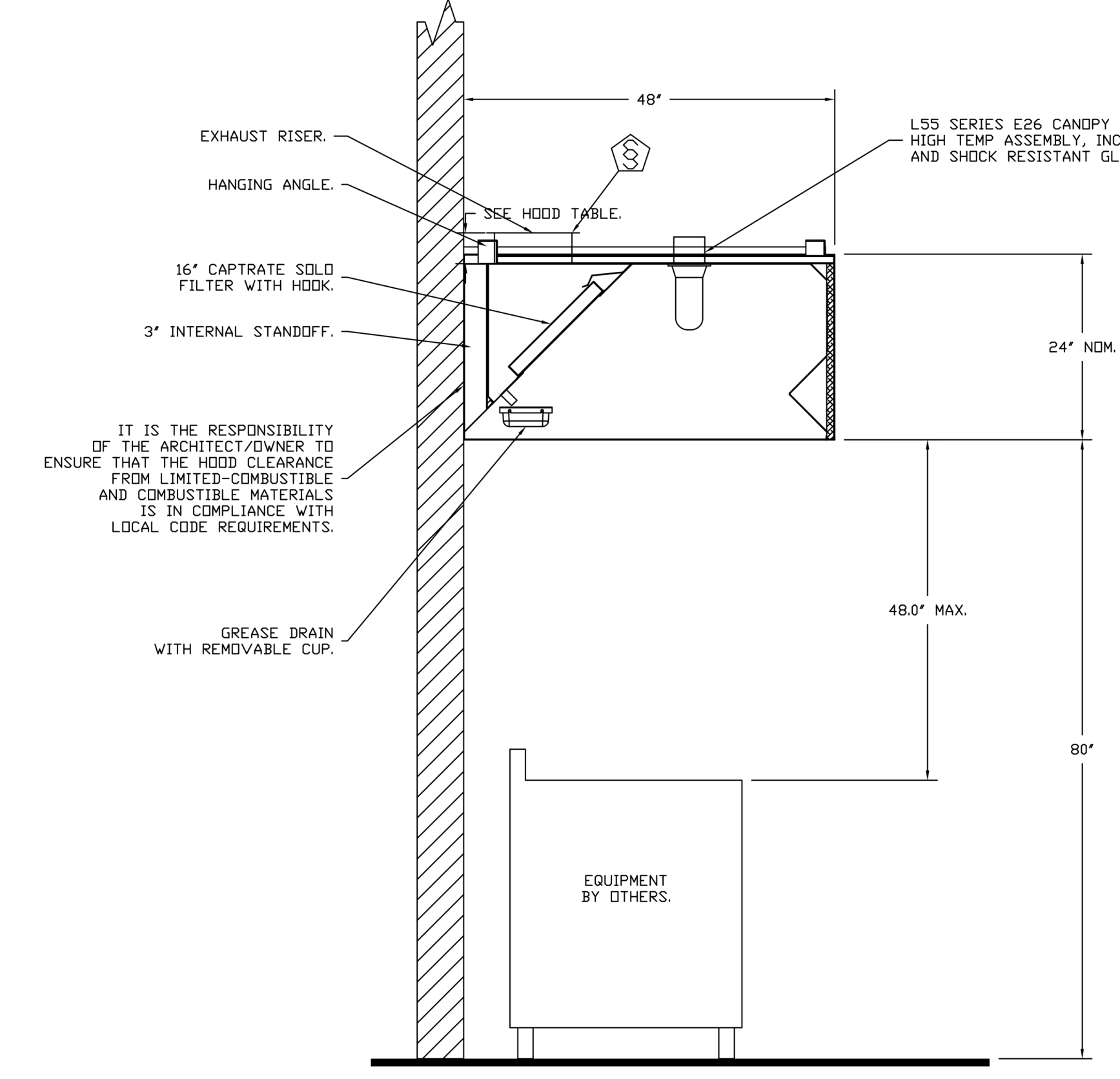
CFM	150'	100'	75'
600	1.25'	3.00'	7.25'
500	0.50'	2.50'	6.25'
400	---	1.25'	4.50'
300	---	---	3.75'
200	---	---	0.50'

INSTALLATION NOTES:
INTENDED FOR INSTALLATION IN LAY IN GROSS CEILINGS.
INSTALL SLIDING RADIAL DAMPER ON TOP SIDE OF COLLAR.

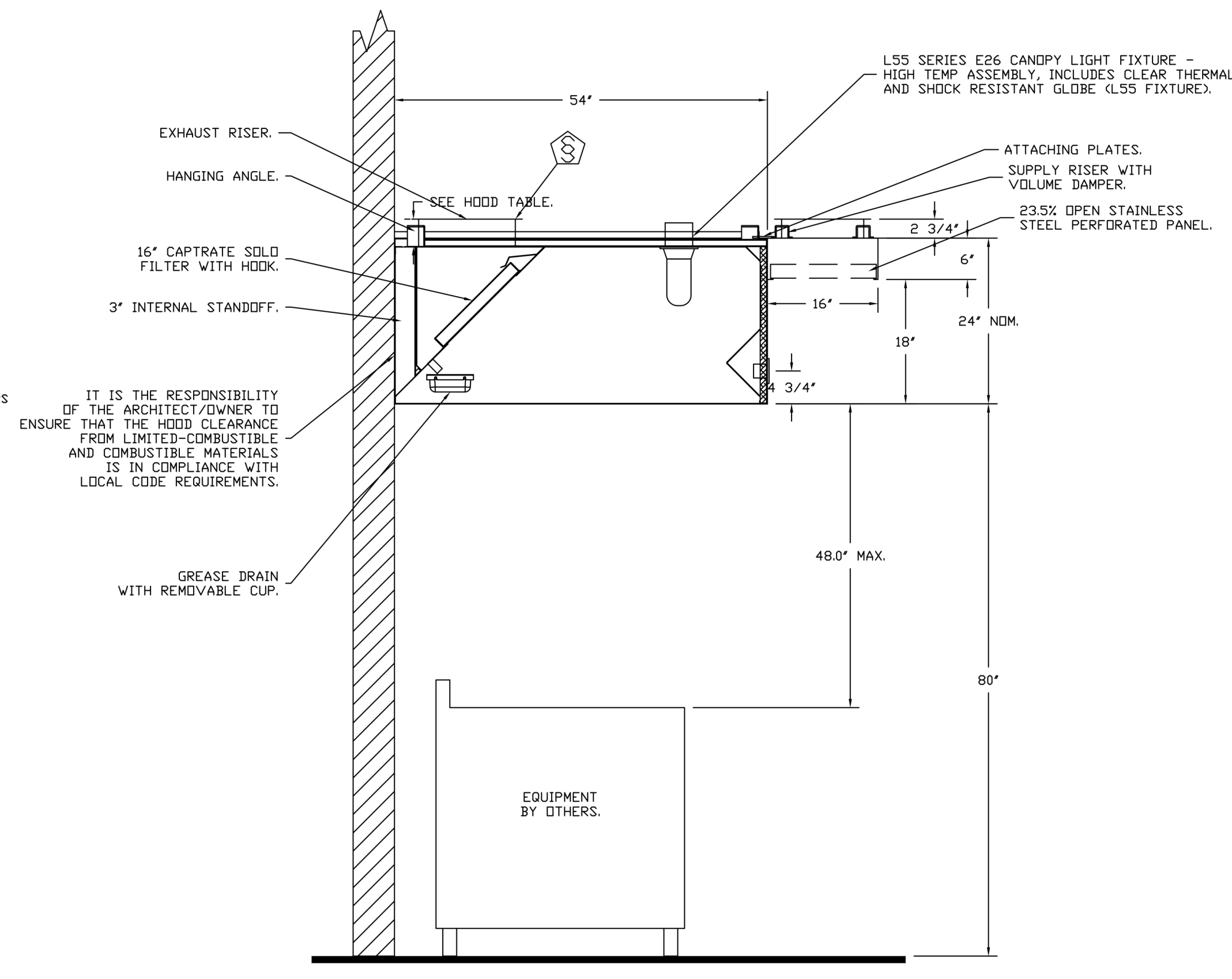
DIFFUSER SPECIFICATION

ASSEMBLY INSTRUCTIONS

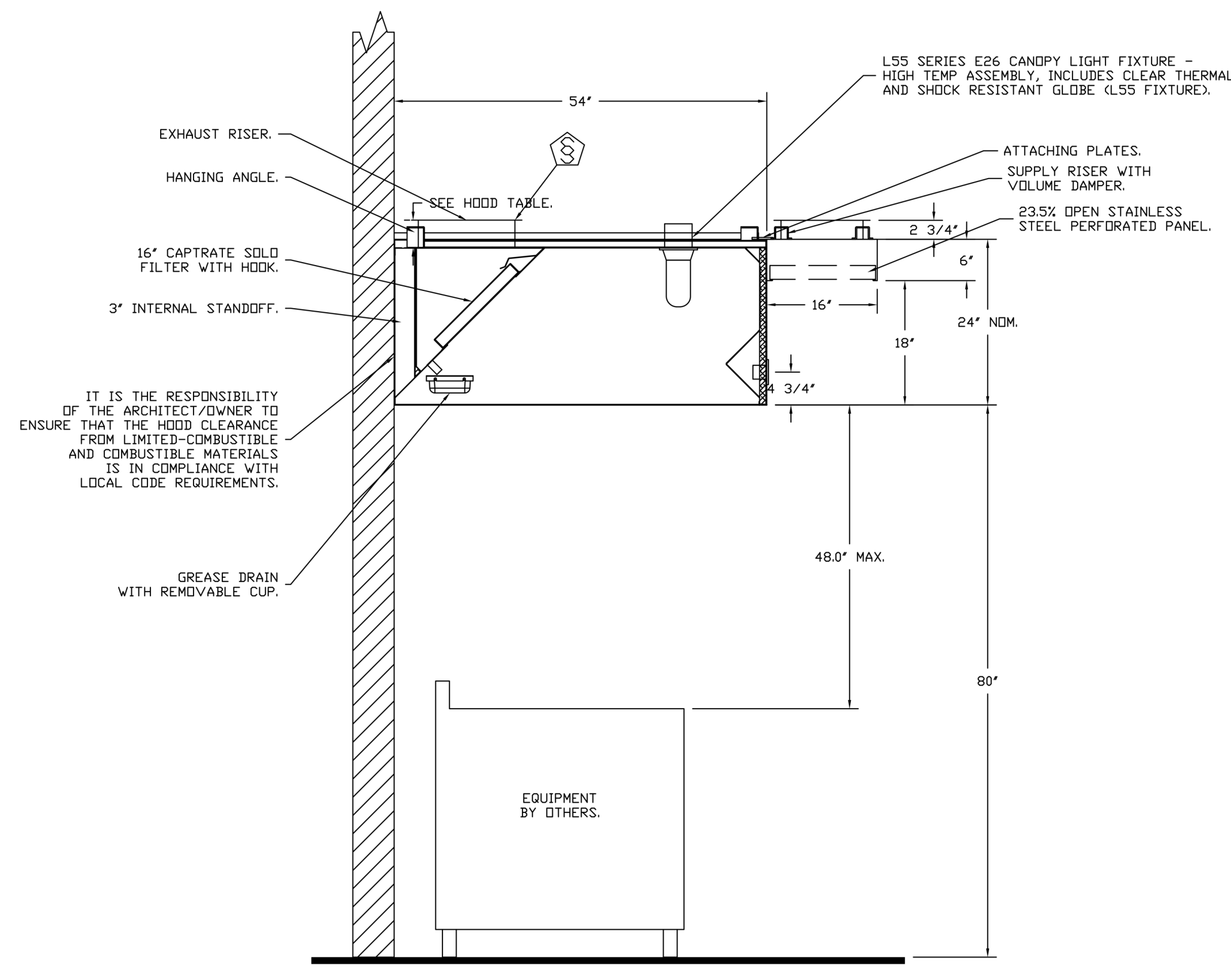
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE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



SECTION VIEW - MODEL 4824ND-2 HOOD - #1 (K66)



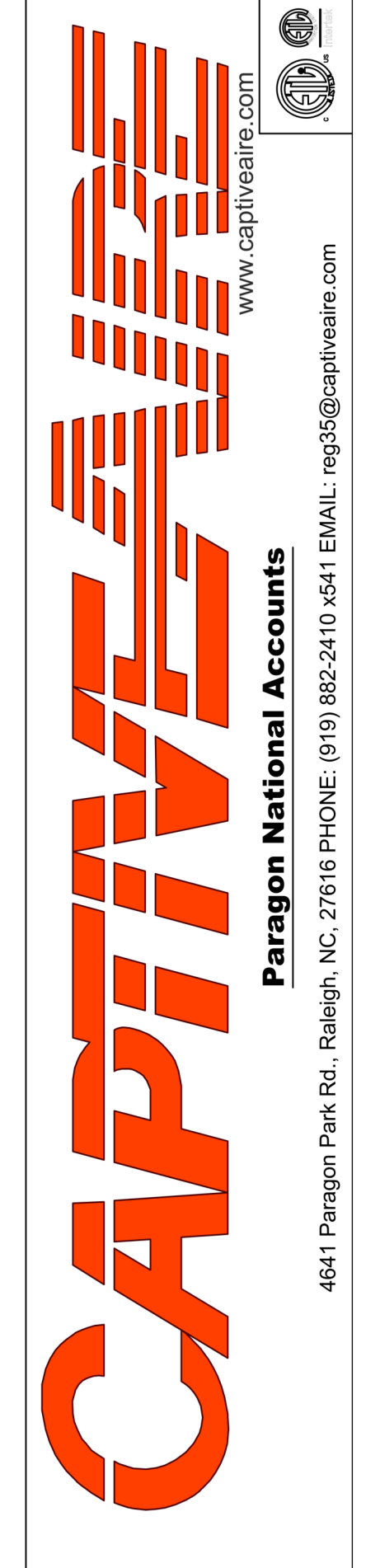
SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #2 (K114 Left)



SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #3 (K114 Right)

REVISIONS

NO.	DESCRIPTION	DATE



Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
DRAWN BY: B. Low
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3



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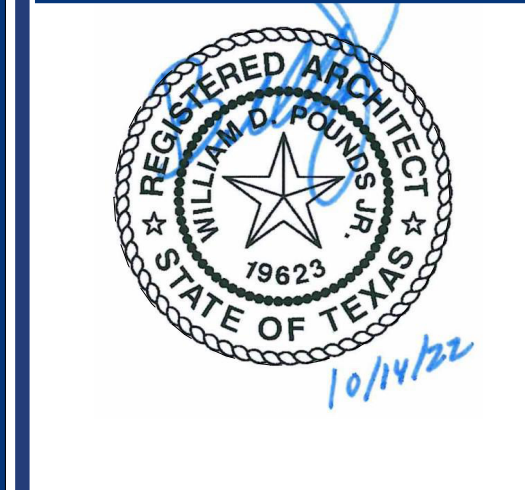
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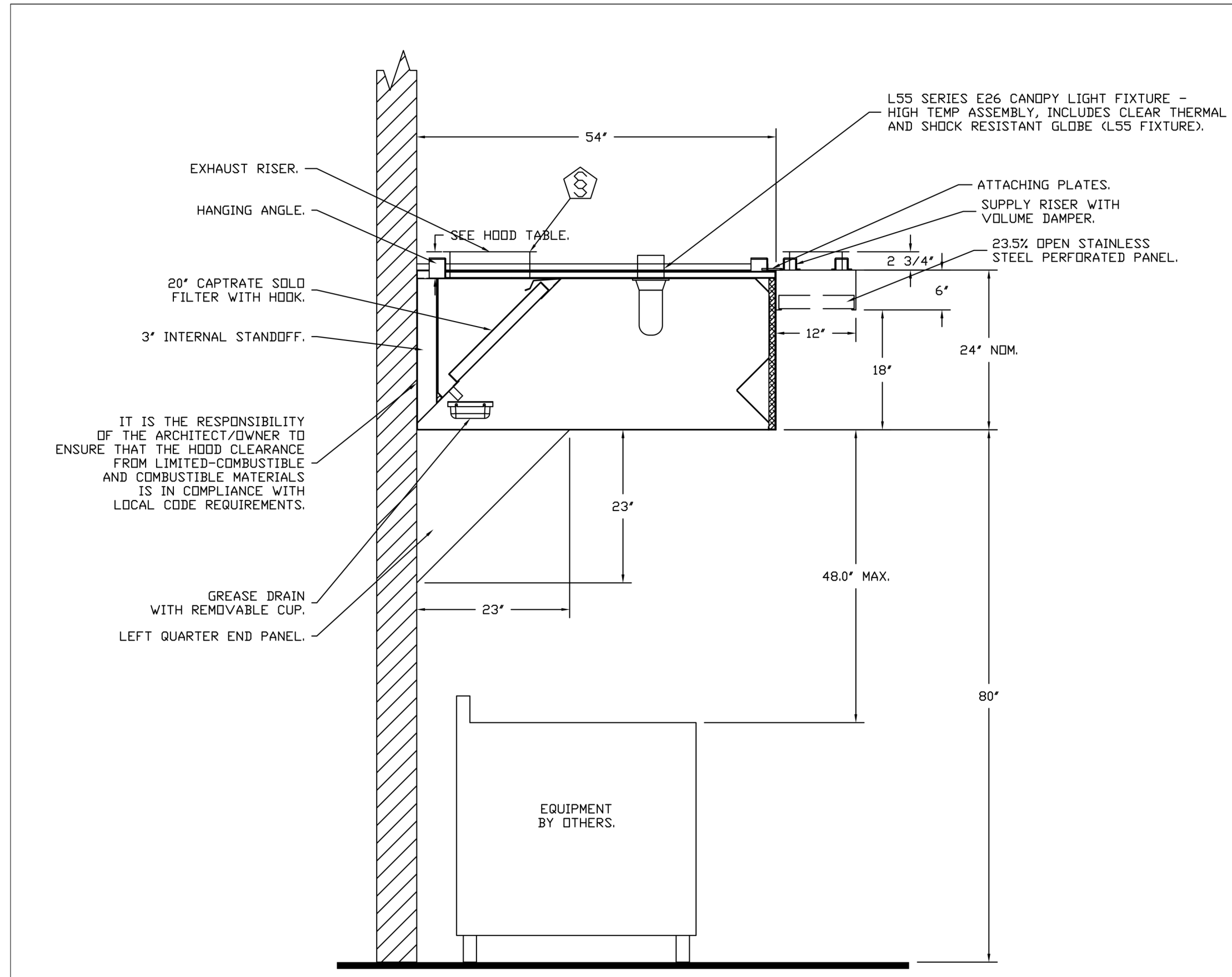
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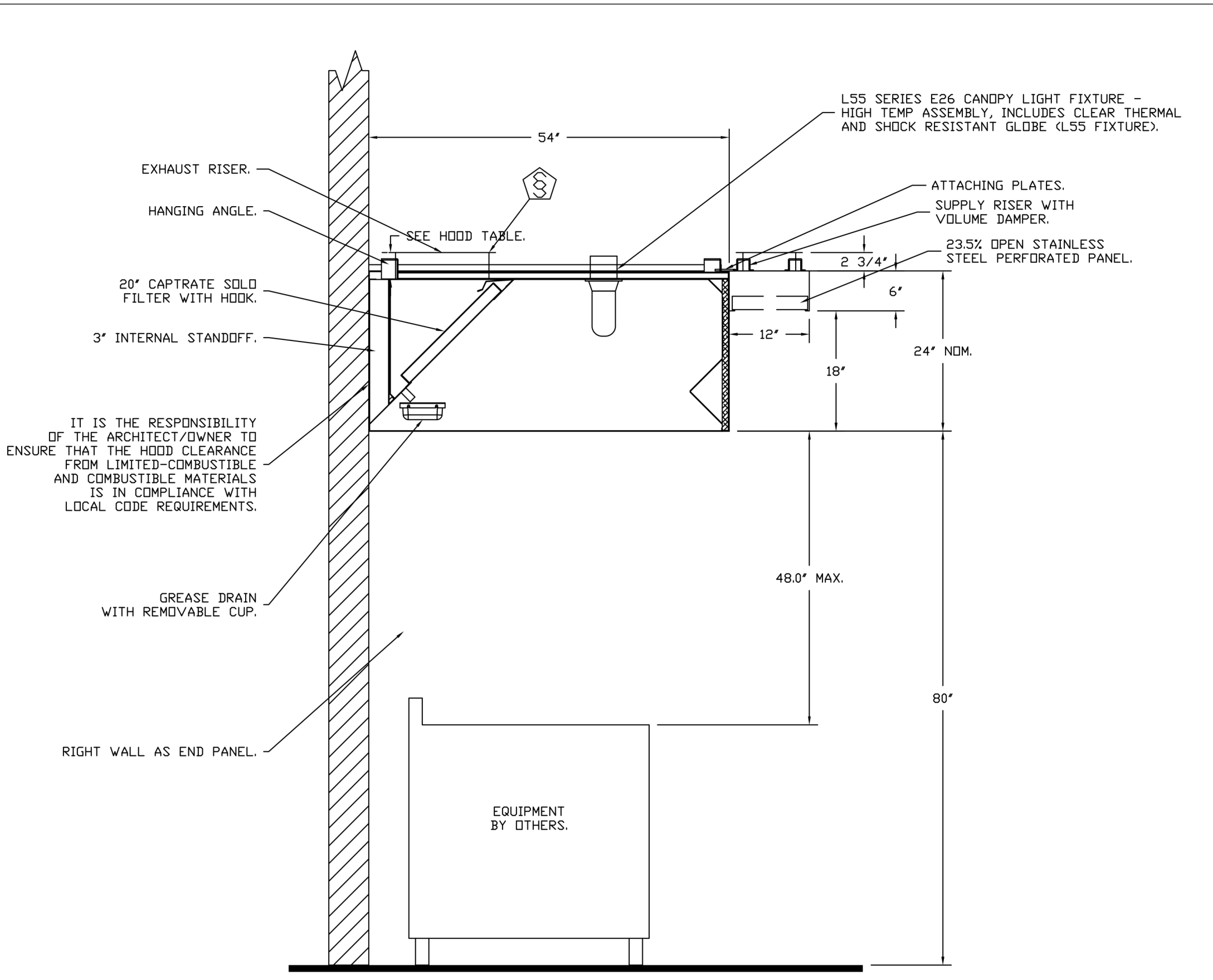
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Hood Drawings

HD-03



SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #4 (K119)



SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #5 (K115)

REVISIONS	
DESCRIPTION	DATE

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Chuy's - New Braunfels R2
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DRAWN BY: B. Law
SCALE: 3/4" = 1'-0"
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SHEET NO.
4



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Architect: Bill D. Pounds

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Hood Drawings

HD-04

SECTION 904.12

COMMERCIAL COOKING SYSTEMS
TAG: CORE Fire Protection

PART 1 - GENERAL

1.1 SUMMARY

A. The CORE Fire Protection system is a pre-engineered wet chemical water based (surfactant) fire suppression system for use in commercial kitchens.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use of this document. This specification is to be reviewed by the engineer to confirm requirements of the project and building codes are met.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

A. CORE Fire Protection System shall be UL & ULC listed in accordance with UL300, and ULC/DR1-C1254.6.

B. Microprocessor-based control board shall be ETL Listed to UL Standard 864 and CAN/ULC-S527-11.

C. CORE Fire Protection System is intended for installation and for use in accordance with the National Fire Protection Association Standards:

1. Wet Chemical Extinguishing Systems, NFPA 17A
 2. National Electrical Code, NFPA 70
 3. National Fire Alarm & Signaling Code, NFPA 72
 4. Installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment, NFPA 96
- D. The CORE Fire Protection System is approved for use in New York City per FDNY CDA #5877.

1.4 WARRANTY

A. All units are provided with the following 5-year standard warranty from date of shipment. Warranty does not cover consumable products such as batteries, surfactant, and nozzle caps.

B. This warranty shall not apply if:

1. The equipment is not installed by a qualified installer per the manufacturer's installation instructions shipped with the product.
2. The equipment is not installed in accordance with Federal, State, and Local codes and regulations.
3. The equipment is misused, neglected, or not maintained per the manufacturer's maintenance instructions.
4. The equipment is not operated within its published capacity.
5. The invoice is not paid within the terms of the sales agreement.

C. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 5-year warranty period, upon examination by the manufacturer, such part will be repaired or replaced by the manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization. All returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

PART 2 - PRODUCTS

2.1 GENERAL ASSEMBLY

A. A pre-engineered, fixed pipe, automatic wet chemical (surfactant) fire suppression system for protection of all hazard areas associated with cooking operations, including exhaust hoods, plenums, ductwork, and cooking appliances.

B. The fire system shall be factory assembled, tested, and shipped as a complete unit.

C. The following specifications, delivering all capacities scheduled and conforming to the design indicated herein. Alternate layouts or dimensional changes will not be accepted.

2.2 COMPONENTS

A. Exhaust hood fire system components to be factory installed.

B. Distribution Nozzles

1. Nozzles shall be located to protect the exhaust ducts, plenums, and all cooking appliances requiring protection.
2. All nozzles shall be equipped with a metal blow off cap. The cap prevents contamination from entering the pipe network and is designed to pop-off upon system discharge, allowing agent to flow to the protected hazard area.

3. All nozzles shall incorporate a stamped part number to quickly identify nozzle type.

C. Distribution System

1. The distribution system shall consist of Copper, Schedule 40 black iron, chrome-plated or stainless-steel pipe and fittings. All exposed piping and fittings must be chrome-plated or stainless-steel.

2. Fittings shall be minimum class 150. Galvanized fittings shall not be used.

3. Flow rate for the hood, when in a fire condition, would be 1.5 gallons per minute per foot of hood.

4. Operating pressure for water lines, both hot water and dedicated line, is 30 to 70 psi, depending on the system configuration.

5. The maximum static pressure cannot exceed 125 psi; pressure-reducing valves can be utilized to meet the correct operating water pressure.

D. Suppression System

1. The system control equipment shall be capable of all functions associated with automatically and manually discharging surfactant from surfactant tank, including automatic shutdown of the heat source or fuel and electrical power to all protected areas upon system discharge.

2. For automatic activation, the system will be activated by a Firestat (heat) detector.

3. For manual activation, an electrically operated manual release shall be used to actuate the system manually.

E. Firestat

1. Hoods #1, 2, 3, 4, 5: Normally Open, Close on Rise 360°F.

2. Additional firestats may be required based on hood temperature rating and length of ductwork. Refer to Installation, Operation, and Maintenance Manual for information.

F. Electrical

1. Electrical Division to provide shunt trip breakers at main power panel, or disconnects, as designated by the Electrical Engineer; interconnection provided at hood control panel for the signal to shut down all electricity in and under the exhaust hood. Shunt trips/disconnects to accomplish shut off of electricity in the event of fire system activation by others.

2. Printed circuit board with microprocessor-based controller that provides all the necessary monitoring, timing, and supervision functions required for the reliable operation of the fire system.

3. Independent supervised loops incorporate redundancy and fault detection.

4. Real-time cloud-based monitoring connection provided with system by ownership.

5. All wiring must be in accordance to NFPA 70 and the Authority Having Jurisdiction (AHJ).

6. Electric gas valve provided for equipment below exhaust hood. Coordinate size and installation with Plumbing Division.

7. All wiring is to be in accordance with the applicable manufacturer's instructions for the fire alarm control panel; gas shut-off valve, manual reset relay, and contractor supplied shut-off devices.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine all areas and conditions under which package(s) are to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.

3.2 INSTALLATION

A. Install the package in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

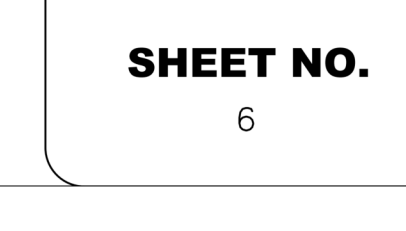
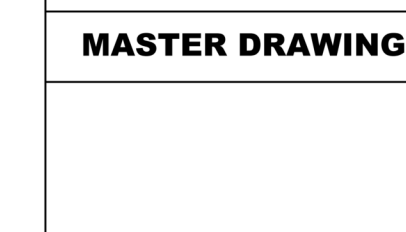
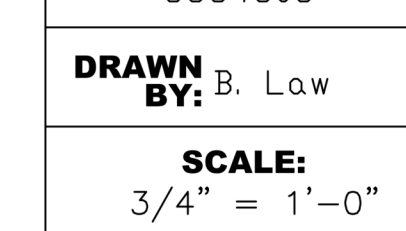
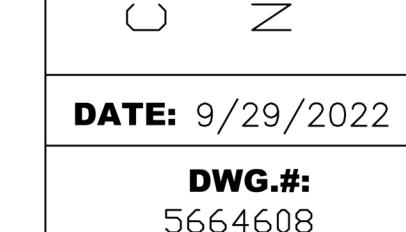
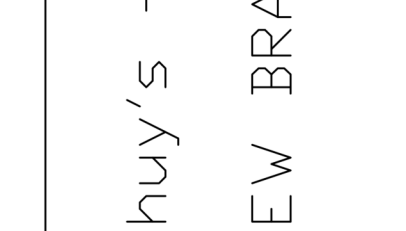
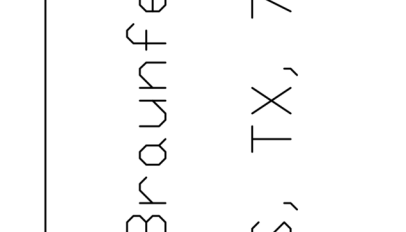
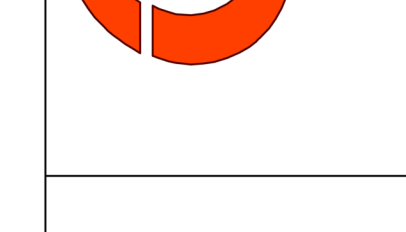
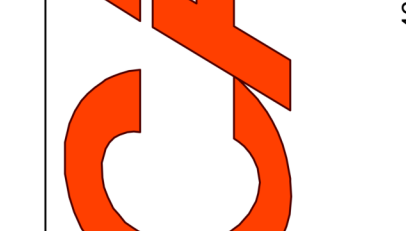
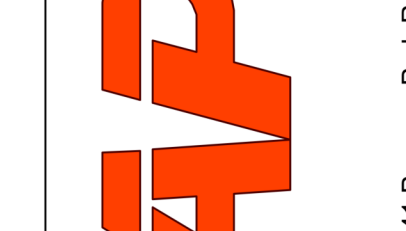
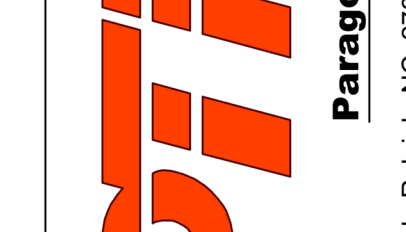
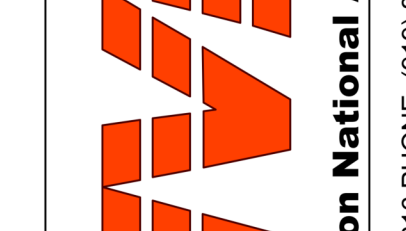
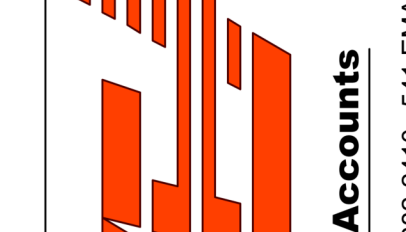
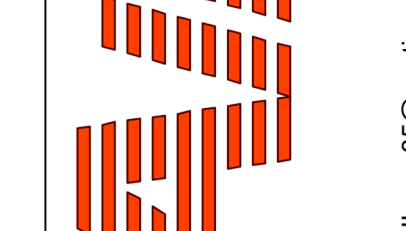
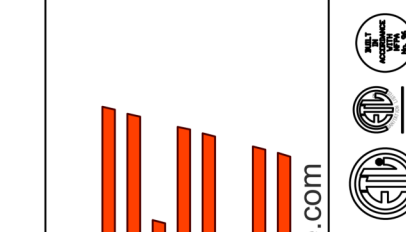
3.3 CONNECTIONS

A. Electrical connections conform to applicable requirements in Division 26 Sections.

3.4 SYSTEM START-UP

A. System start-up is performed by a factory-trained Service Technician.

REVISIONS	
DESCRIPTION	DATE



4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 882-2410 FAX: (919) 882-2411 EMAIL: info@captivefire.com

www.captivefire.com

Paragon National Accounts

Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022

DWG.#: 5664608

DRAWN BY: B. Law

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 6

2 Construction Set 10/14/2022
B Issue for Bid 06/17/2022
A Issue for Construction 05/20/2022

No.	Description	Date

Drawn by: RM
Checked by: DD
Project Number: 04-21715
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Hood Drawings

HD-06

CONSTRUCTION • ARCHITECTURE

PKWY

Parway CSA, LLP
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979

Project Manager:
Contact: Construction PM
214-111-1111

Architect:
Contact: Project Architect
214-111-1111



Chuy's - New Braunfels

2557 IH 35 N
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Ph: (830) 358-7127
Contact: Shane Karl, PE

Architect:
PKWY Architects
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Project Contact: Bill Pounds, AIA

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Ph: (816) 872-7495
Contact: Joe Hillebrenner P.E.

Structural Engineer:
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Dallas, TX 75206
Ph: (214) 237-7022
Contact: Scott Armstrong, P.E.

Landscape Architect:
BELLE FIRMA
4245 North Central Expy, Suite 501
Dallas, Texas 75205
Ph: (214) 865-7192
Contact: Kori Haug ASLA, CLARB



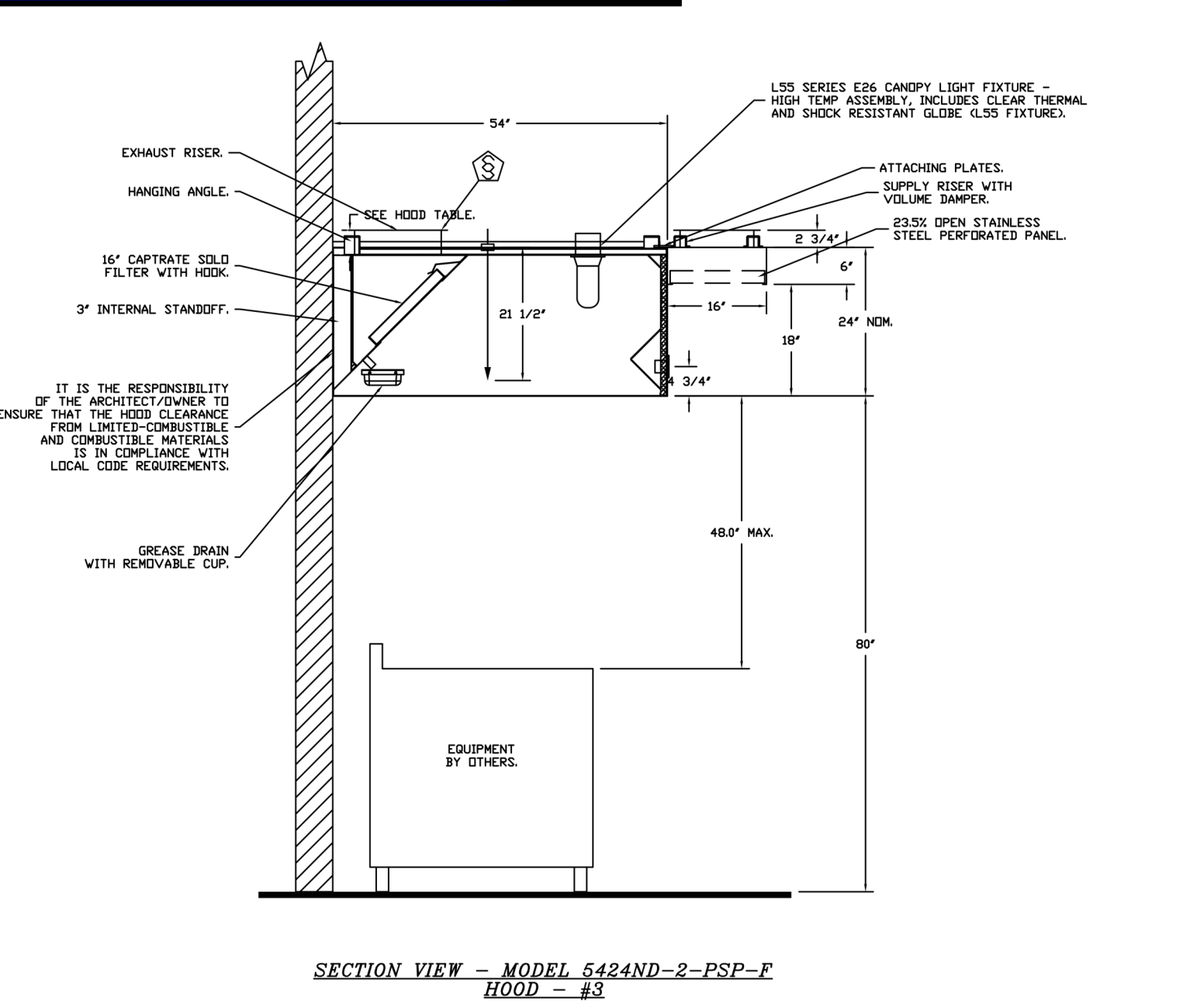
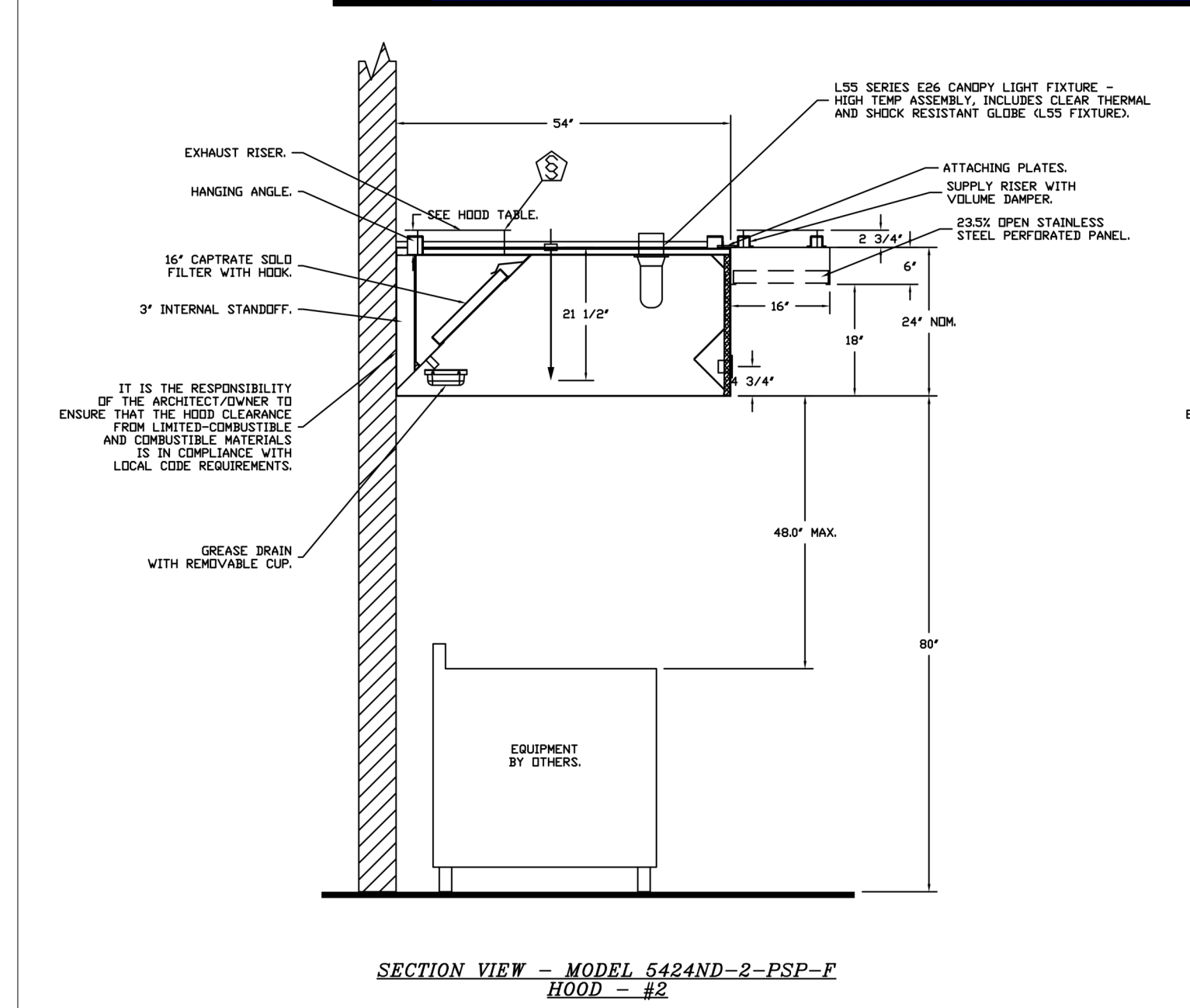
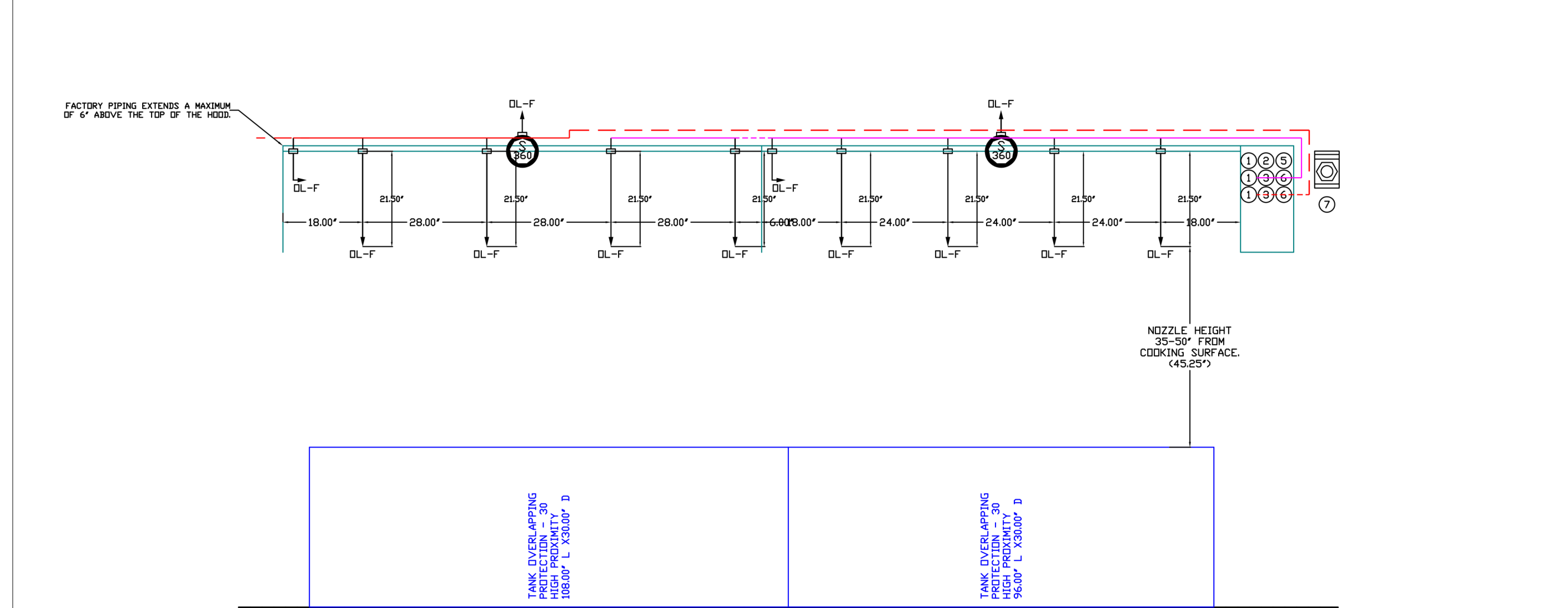
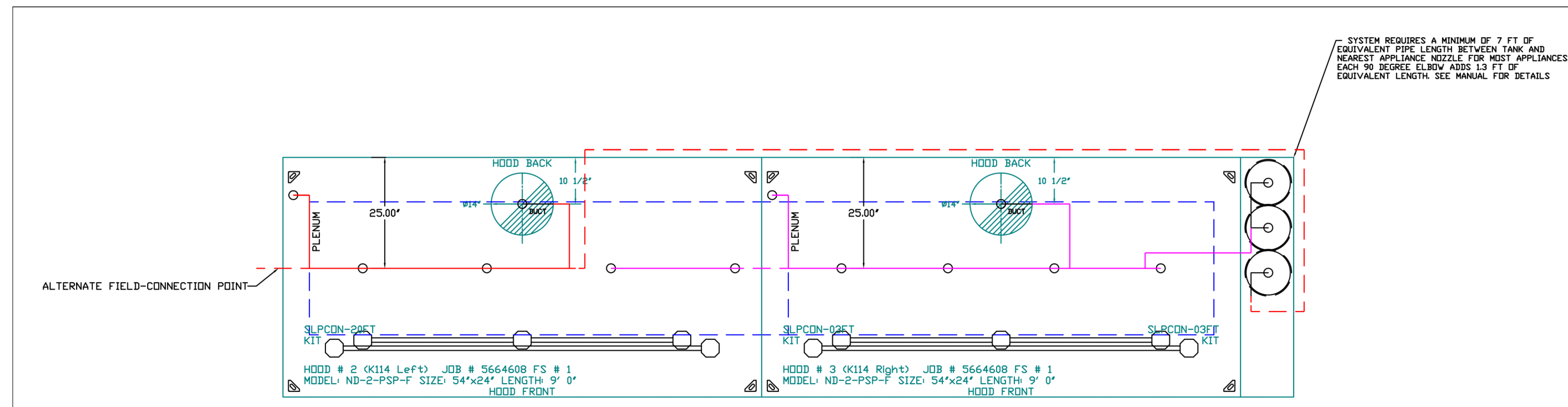
Architect: Bill D. Pounds

No.	Description	Date

Drawn by: RM
Checked by: DD
Project Number: 04-21715
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Hood Drawings

HD-06



NOTES

- FIELD PIPE DROPS AS SHOWN
- FIELD INSTALLED DROP FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.
- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB # 5664608
JOB NAME: CHUY'S - NEW BRAINFELS R2

SYSTEM SIZE: TANK-SP-3 TOTAL FP REQUIRED: 56.
HOOD # 2 9' 0.00" LONG X 54" WIDE X 24" HIGH.
HOOD # 3 9' 0.00" LONG X 54" WIDE X 24" HIGH.
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 3 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE

www.captiveare.com

Paragon National Accounts
4841 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2410 FAX: (919) 882-2410 EMAIL: rags@captivare.com

Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
DRAWN BY: B. Law
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO.
8



Chuy's - New Braunfels
2557 IH 35 N
New Braunfels, TX 78132

Owner:
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Ph: (512) 473-2783
Contact: Michael Hatcher

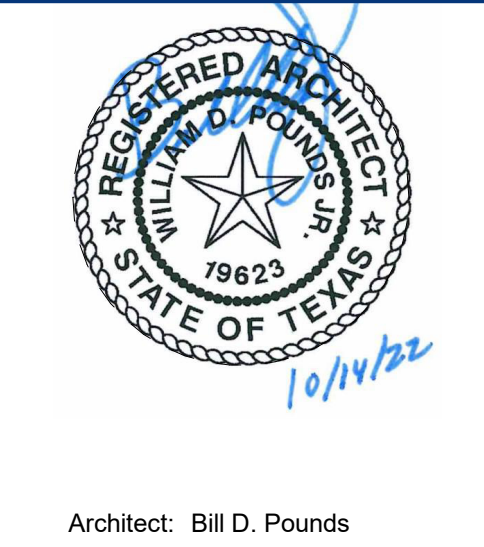
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Contact: Shane Karl, PE

Architect:
PKWY Architects
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Project Contact: Bill Pounds, AIA

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Contact: Scott Armstrong, P.E.

Landscape Architect:
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Ph: (214) 865-7192
Contact: Kori Haug ASLA, CLARB



Architect: Bill D. Pounds

No.	Description	Date

2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

Drawn by: RM
Checked by: DD
Project Number: 04-21715
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Hood Drawings



Chuy's - New Braunfels
 2557 IH 35 N
 New Braunfels, TX 78132

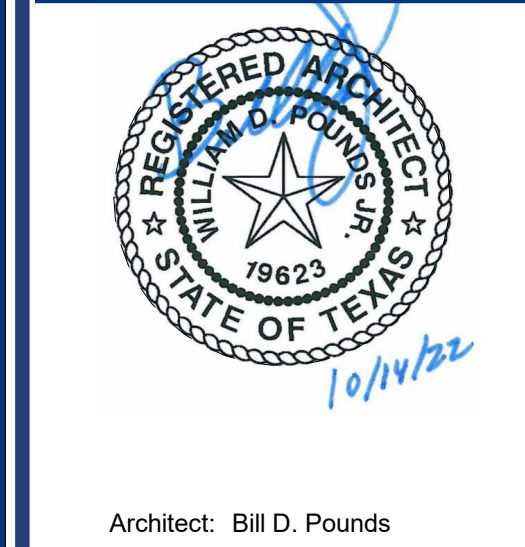
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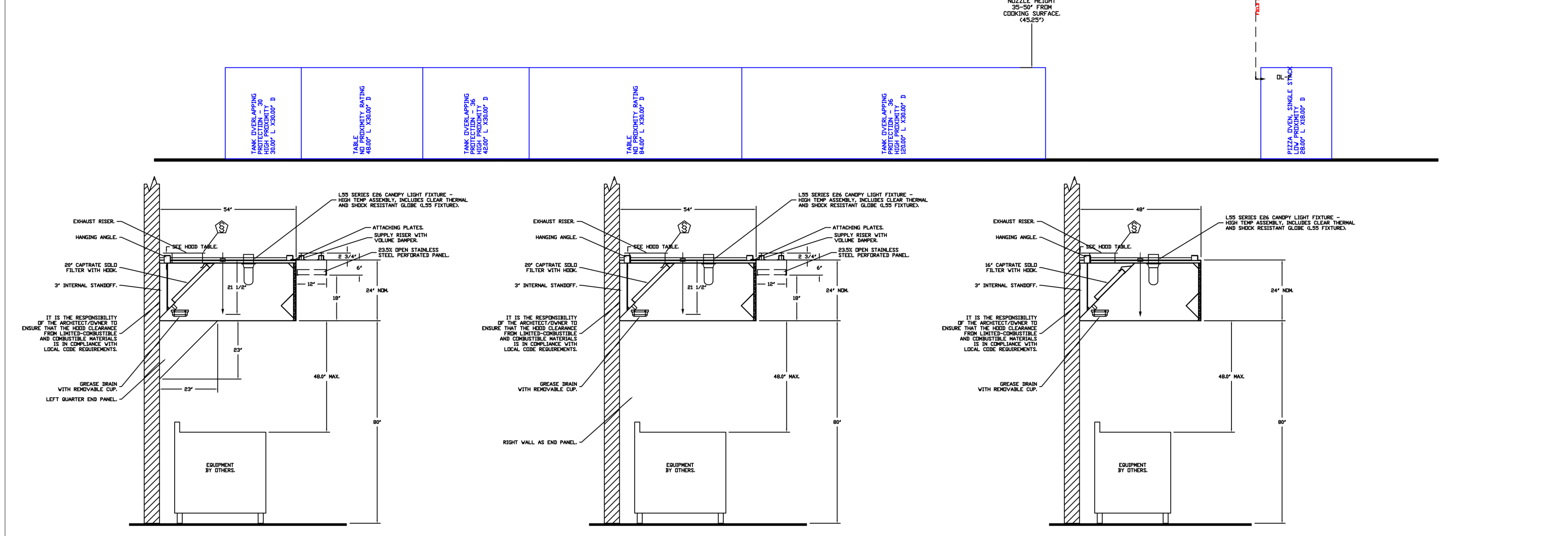
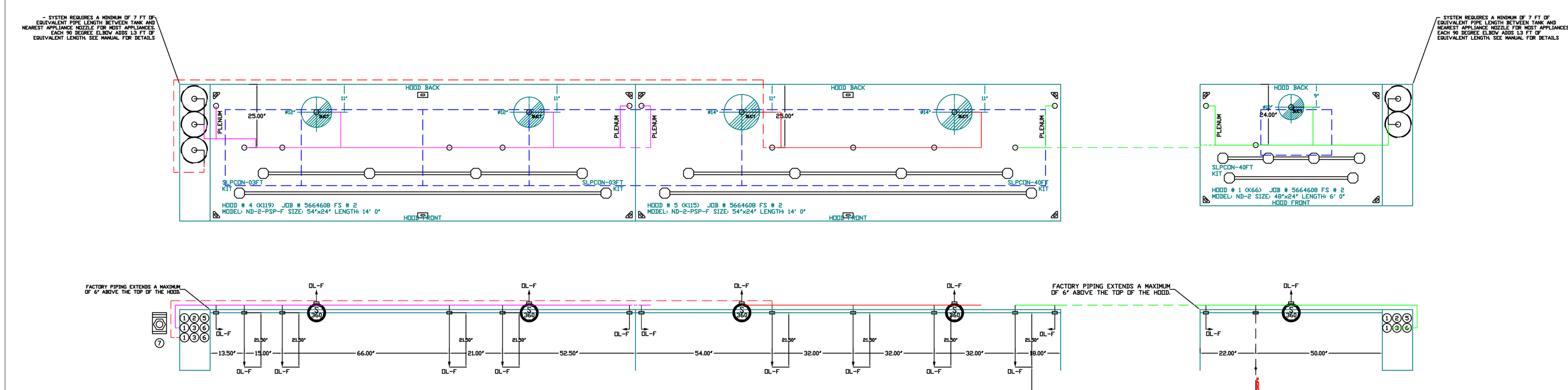
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 Contact: Kori Haug ASLA, CLARB



Architect: Bill D. Pounds



VET - CHEMICAL FIRE-EXTINGUISHING SYSTEM
 TAG TANK FIRE SUPPRESSION

PART 1 - GENERAL

1.1 SUMMARY

A. Tank Fire Suppression is a pre-engineered, stored-pressure wet chemical solution extinguishing system.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the requirements of the project and meet Federal, State, and Local codes.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

A. Tank Fire Suppression System shall be UL & ULC listed in accordance with UL 200, UL954, UL954-CES, and UL954-CES-2.

B. Monoprocessor-based control board shall be ETL listed to UL Standard 854 and CMAA ULC-2007-11.

C. Tank Fire Suppression System intended for installation and for use in accordance with the National Fire Protection Association Standards:

1. Wet Chemical Extinguishing Systems, NFPA 17A
2. National Electrical Code, NFPA 70
3. National Fire Alarm & Signaling Code, NFPA 72
4. New York City and FBY approved under CDM 5876
5. California State Fire Marshal (CSFM), Listing No. 7085-21990502.

1.4 WARRANTY

A. All units shall be provided with the following standard warranties:

1. Tank Fire Suppression System is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 60-months from date of shipment.
2. Warranty does not cover consumable products such as batteries and nozzles.
3. The manufacturer shall not be liable for incidental and consequential losses and damages caused by or attributed to malfunctioning equipment, should any part of the equipment prove to be defective in material or workmanship within the 60-month warranty period, upon notification by the manufacturer, such part will be repaired or replaced by the manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with any repair or replacement. Equipment shall not be returned without manufacturer's or replacement manufacturer's approval. All returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.
4. Refer to manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/are not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

A. A pre-engineered, fixed pipe, automatic wet chemical agent fire suppression system for protection of all hooded areas associated with cooking operations, including exhaust hoods, plenums, ductwork, and cooling appliances.

2.2 COMPONENTS

A. Exhaust hood fire system components to be factory installed.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner accessible to Installer.

3.2 APPLICATION

A. Wet chemical-based fire suppression system for use in commercial kitchens. It can be mounted in the exhaust cabinet located at the end of the hood or offered as a wall mount package.

3.3 INSTALLATION

A. As part of this item, provide wall mounted type K hand-held portable fire extinguisher, optional one mounting bracket as required in the immediate vicinity of each cooking area, per NFPA-96 and NFPA-98. Additional fire extinguishers as required in the section area will be specified by the Architect and provided by the General Contractor.

B. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.

C. Six-month and twelve-month inspections, servicing, and replacement of components as per NFPA 96 to be provided by the General Contractor of Owner.

3.4 SUPPLEMENT SYSTEM

1. The system control equipment shall be capable of all functions associated with automatic and manually discharging the wet chemical agent from all cylinders and valve assemblies, including automatic shutdown of the hood space or duct and electrical power to all protected areas upon system discharge.

2. Liquid Fire Suppression shall be Aqueous Protein Carbonate (APC).

3. All mechanical components of the actuator kit shall be enclosed.

4. The actuator kit shall be capable of automatic or manual activation means.

5. Supervisory Pressure Switch added to monitor operating system pressure.

6. For manual activation, an electrically operated manual release shall be used to activate the system manually.

7. For automatic activation, the system will be activated by a fire-rated therio detector.

3.5 ELECTRICAL

1. Electrical Division to provide short trip breakers at main power panel, or disconnects, as designated by the Electrical Engineer, interlocked by manufacturer of hood cabinet used for the signal to shut down all electricity in and under the exhaust hood. Short trip breakers to be provided in accordance with the signal to the event of the system activation by others.

2. Pre-wired control board with microprocessor-based controller that provides all the necessary monitoring, timing, and supervision functions required for the reliable operation of the fire system.

3. Independent supervised loops incorporate redundancy and fault detection.

4. Real-time cloud-based monitoring connection provided with system by manufacturer.

5. Primary power supply, with battery backup for power loss.

6. All wiring shall be in accordance to NFPA 70 and the Authority Having Jurisdiction (AHJ).

7. Electric gas valve provided for equipment based exhaust hood. Coordinate gas valve installation with plumbing Division.

8. All wiring is to be in accordance with the applicable manufacturer's instructions for the fire alarm control panel, gas shut-off valve, manual reset relay, and contractor supplied shut-off device.

- NOTES**
- FIELD PIPE BRIDS AS SHOWN
 - PIPING, LEGS, TEE'S, AND NOZZLES SUPPLIED BY OAC
 - FIELD INSTALLED BRONZ FACTORY WILL PROVIDE 211 # 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED
 - SHOP LOOSE BRONZ FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED
 - RELIABLE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING
 - DOWNSTREAM DETECTOR SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION
 - IF APPLICABLE EXTENDED PRE-PIPED BRIDS ARE SHIPPED LOOSE
 - FACTORY PIPING EXTENDS A MAXIMUM OF 4" ABOVE THE TOP OF THE HOOD
 - APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE
 - SIZE NOT THE OVERALL APPLIANCE SIZE
 - THIS FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.
 - DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
 - JOB # 564608
 - JOB NAME CHUY'S - NEW BRAUNFELS R2
 - SYSTEM SIZE: TANK-SP-3 WITH REMOTE TANK-SP-2 TOTAL FP REQUIRED: 78'
 - HOOD # 1 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 2 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 3 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 4 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 5 1/2" DWP LONG X 48" WIDE X 24" HIGH
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 - HOOD # 9 1/2" DWP LONG X 48" WIDE X 24" HIGH
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 - HOOD # 78 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 79 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 80 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 81 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 82 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 83 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 84 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 85 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 86 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 87 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 88 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 89 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 90 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 91 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 92 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 93 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 94 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 95 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 96 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 97 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 98 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 99 1/2" DWP LONG X 48" WIDE X 24" HIGH
 - HOOD # 100 1/2" DWP LONG X 48" WIDE X 24" HIGH

REVISIONS

NO.	DESCRIPTION	DATE

CAPTIVE
 Paragon National Accounts
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 882-2410 x541 EMAIL: mgj@captive.com

Chuy's - New Braunfels R2
 NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
 DWG.#: 5664608
 DRAWN BY: B. Law
 SCALE: 3/8" = 1'-0"
 MASTER DRAWING

SHEET NO. 9

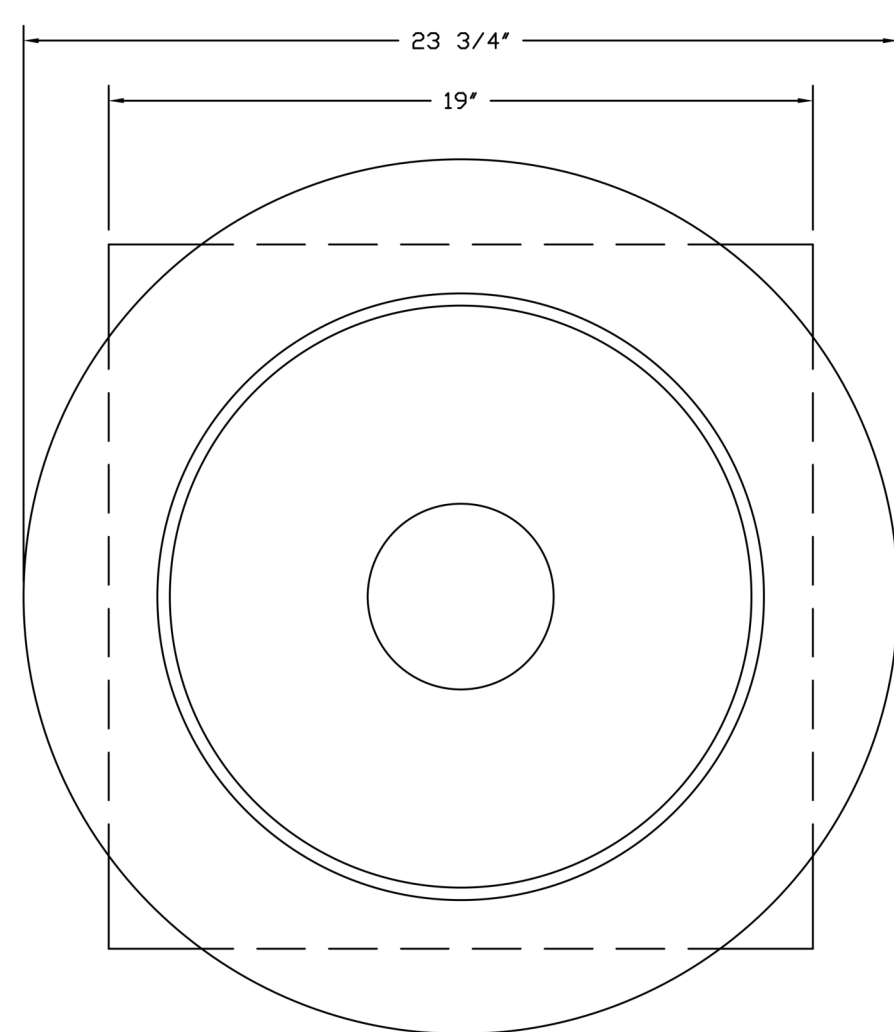
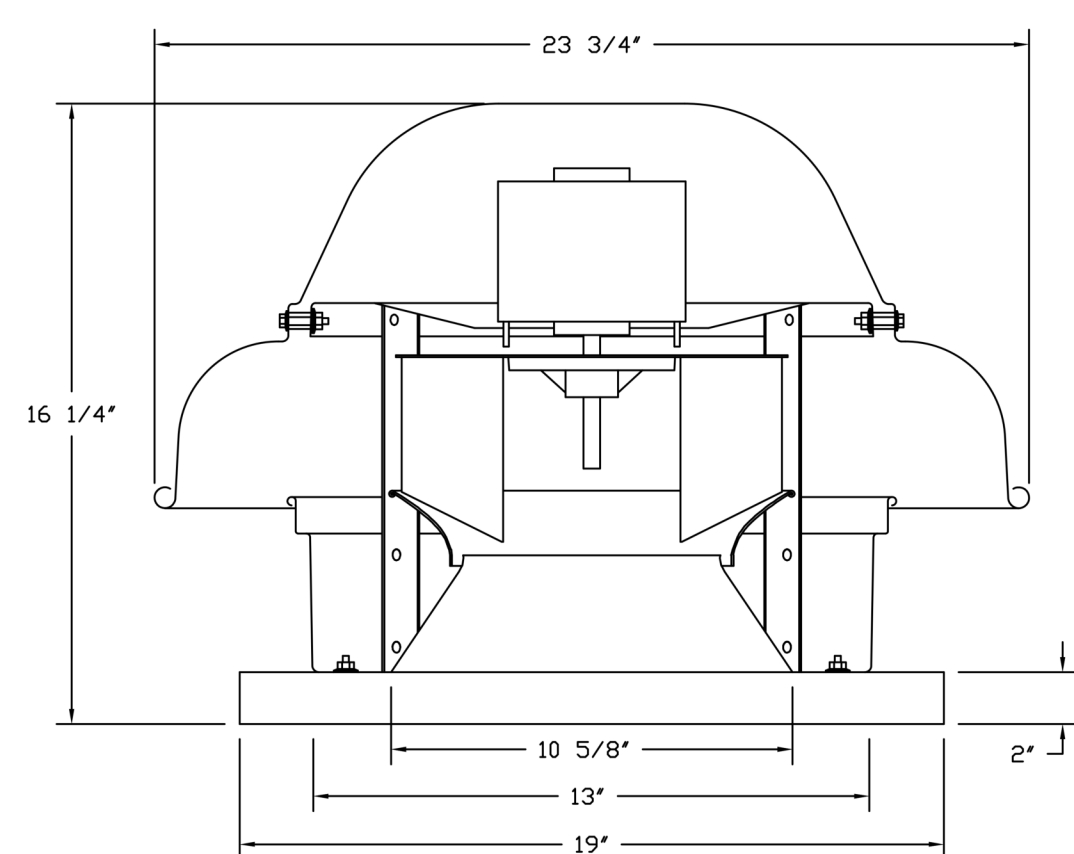
No.	Description	Date
2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

Drawn by: RM
 Checked by: DD
 Project Number: 04-21715
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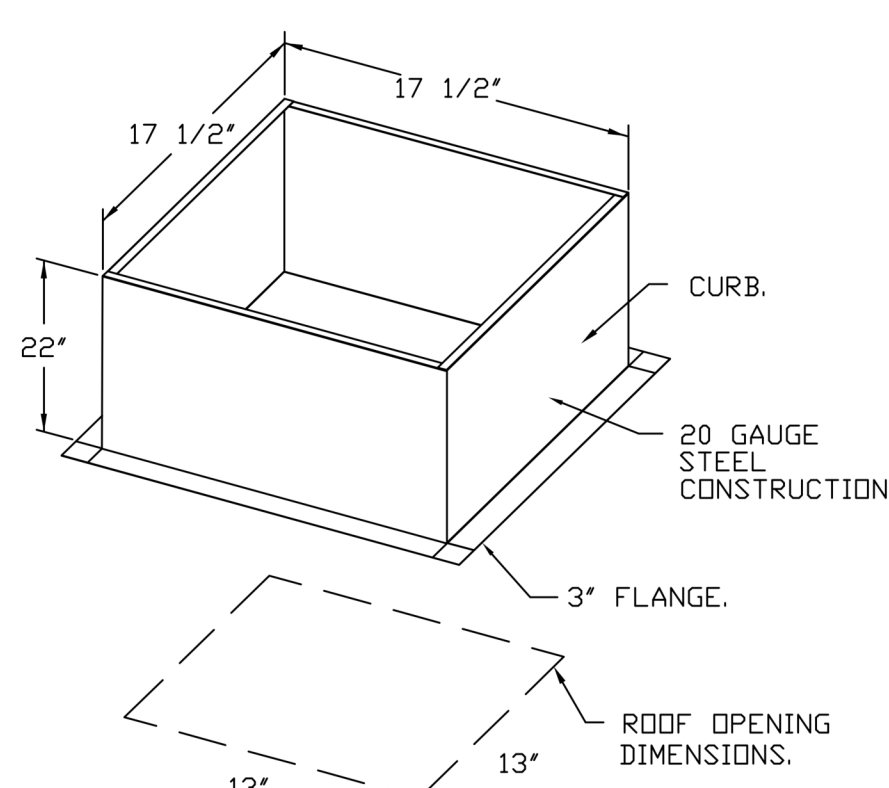
Hood Drawings

HD-09

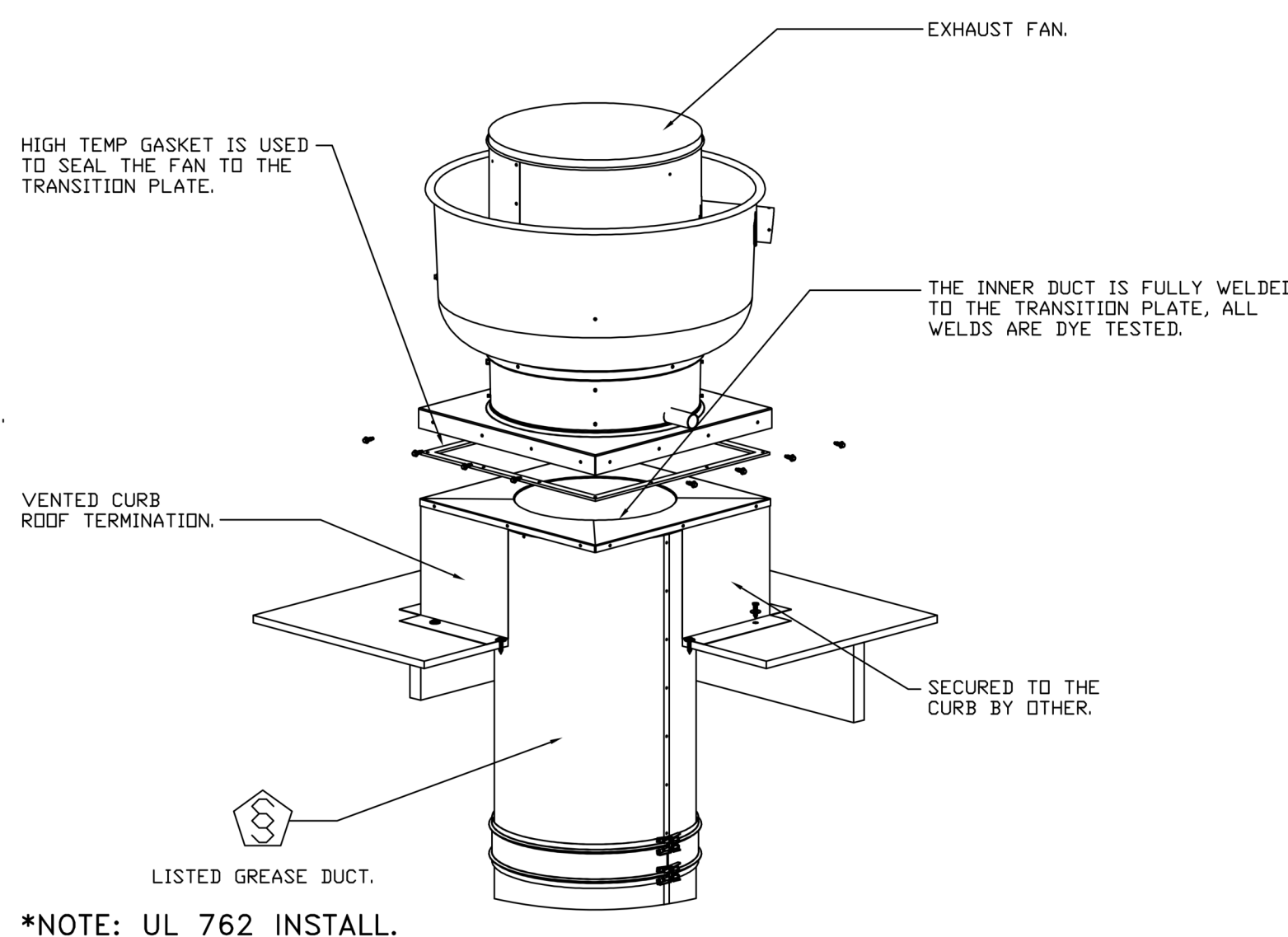
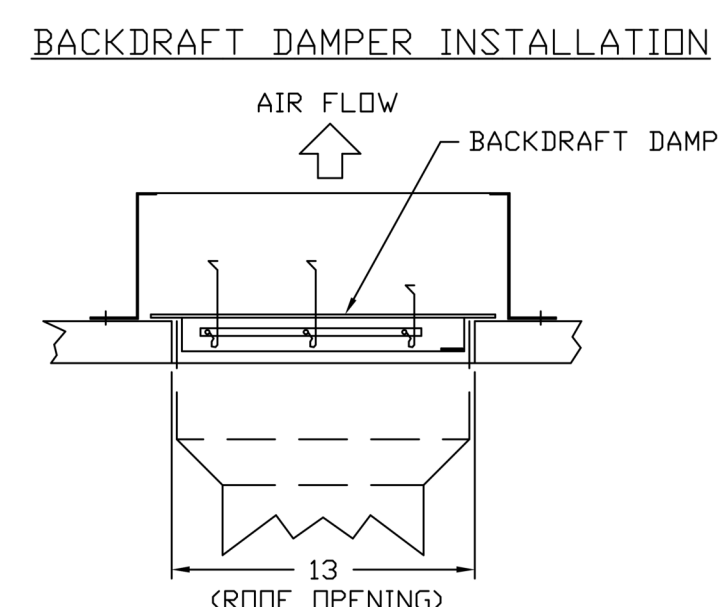
FAN #7 DR181FA - EXHAUST FAN (BATHROOM_FF-62)



- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
 - ROOF MOUNTED FANS.
 - UL705.
 - SAFETY DISCONNECT.
 - STANDARD BIRD SCREEN.
 - SPEED CONTROL.
- OPTIONS:**
- 1 12"-BDD DAMPER.
 - 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
 SPECIFY PITCH:
 EXAMPLE: 7/12 PITCH = 30° SLOPE.



*NOTE: UL 762 INSTALL.

TOP VIEW

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" 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 "DW" 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 CAPTIVEAIRE SYSTEMS MODEL "DW- 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 _____

REVISIONS	
DESCRIPTION	DATE

CAPTIVEAIRE

Paragon National Accounts
 4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 862-2410 FAX: (919) 862-2411 EMAIL: rags@captivaire.com

Chuy's - New Braunfels R2
 NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
 DWG.#: 5664608
 DRAWN BY: B. Law
 SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 15

CONSTRUCTION • ARCHITECTURE

PKWY

Parkey C&A, LLP
 1000 Civic Circle Lewisville, TX 75067
 parkwayconstruction.com (972) 221-1979

Project Manager: Construction PM
 Contact: 214-111-1111

Architect: Project Architect
 Contact: 214-111-1111



Chuy's - New Braunfels
 2557 IH 35 N
 New Braunfels, TX 78132

Owner:
 Chuy's OPO
 1623 Toomy Road
 Austin, TX 78704
 Ph: (512) 473-2783
 Contact: Michael Hatcher

Civil Engineer:
 INK Civil
 2021 W State Hwy 48 Ste 105
 New Braunfels, TX 78132
 Ph: (830) 358-7127
 Contact: Shane Karl, PE

Architect:
 PKWY Architects
 1000 Civic Circle
 Lewisville, TX 75067
 Ph: (469) 221-1979
 Project Contact: Bill Pounds, AIA

MEP Engineer:
 Dialectic, Inc.
 310 W 20th Street, Ste. 200
 Kansas City, MO 64108
 Ph: (816) 872-7495
 Contact: Joe Hillebrenner P.E.

Structural Engineer:
 Armstrong-Douglas Partners
 6060 N Central Expressway
 Dallas, TX 75208
 Ph: (214) 237-7022
 Contact: Scott Armstrong, P.E.

Landscape Architect:
 BELLE FIRMA
 4245 North Central Expy, Suite 501
 Dallas, Texas 75205
 Ph: (214) 865-7192
 Contact: Kori Haug ASLA, CLARB

REGISTERED ARCHITECT
 WILLIAM D. POUNDS
 19623
 STATE OF TEXAS
 10/14/22

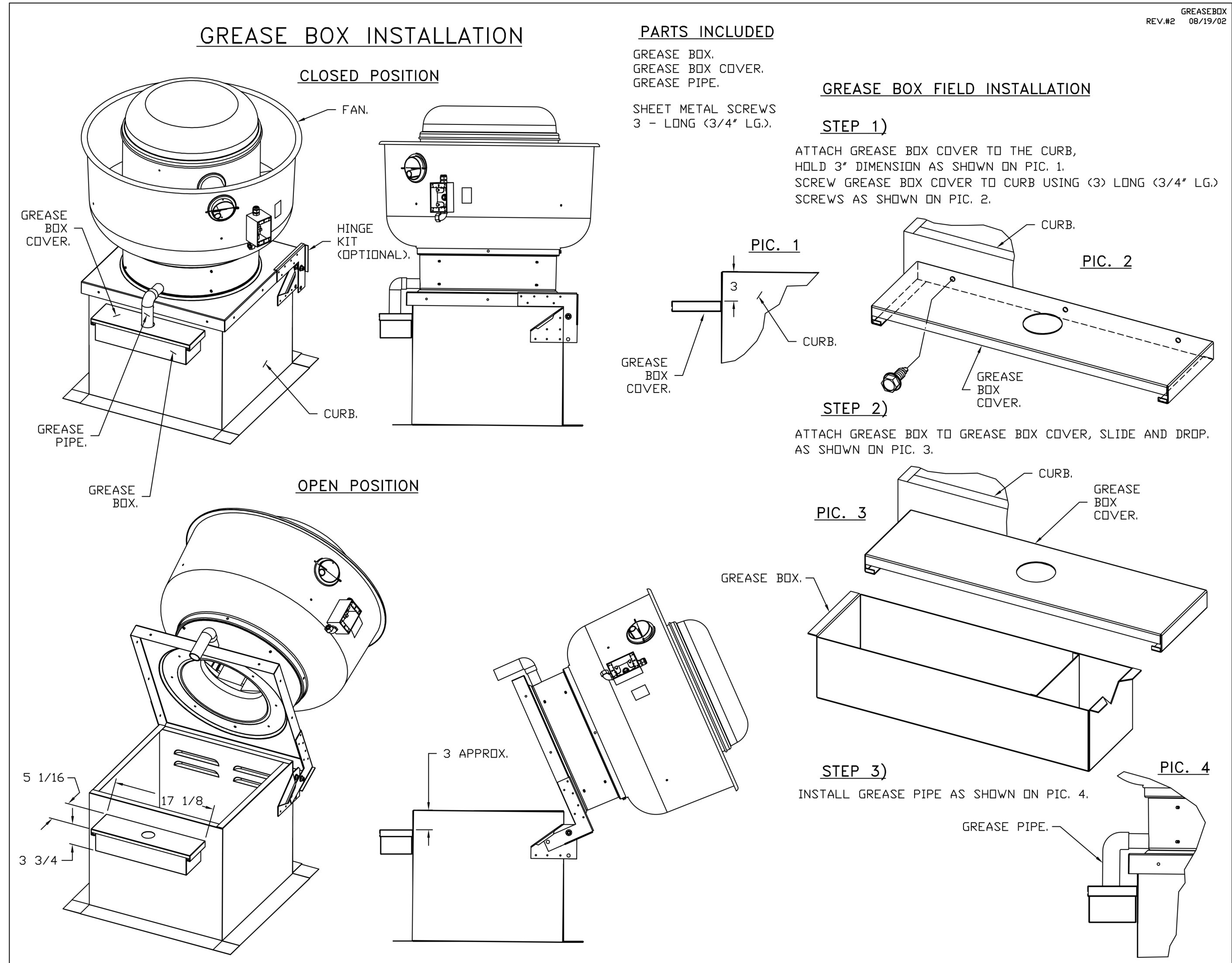
Architect: Bill D. Pounds

No.	Description	Date
2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

Drawn by: RM
 Checked by: DD
 Project Number: 04-21715
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Hood Drawings

HD-15



*NOTE: UL 705 INSTALL.

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NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
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SCALE: 3/4" = 1'-0"
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SHEET NO.
16



Chuy's - New Braunfels
2557 IH 35 N
New Braunfels, TX 78132

Owner:
Chuy's OPOC
1623 Toomy Road
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Ph: (512) 473-2783
Contact: Michael Hatcher

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2021 W State Hwy 46 Ste 105
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Ph: (830) 358-7127
Contact: Shane Karl, PE

Architect:
PKWY Architects
1000 Civic Circle
Lewisville, TX 75067
Ph: (469) 221-1979
Project Contact: Bill Pounds, AIA

MEP Engineer:
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310 W 20th Street, Ste. 200
Kansas City, MO 64108
Ph: (816) 872-7495
Contact: Joe Hillebrenner P.E.

Structural Engineer:
Armstrong-Douglas Partners
6060 N Central Expressway
Dallas, TX 75208
Ph: (214) 237-7022
Contact: Scott Armstrong, P.E.

Landscape Architect:
BELLE FIRMA
4245 North Central Expy, Suite 501
Dallas, Texas 75205
Ph: (214) 865-7192
Contact: Kori Haug ASLA, CLARB



Architect: Bill D. Pounds

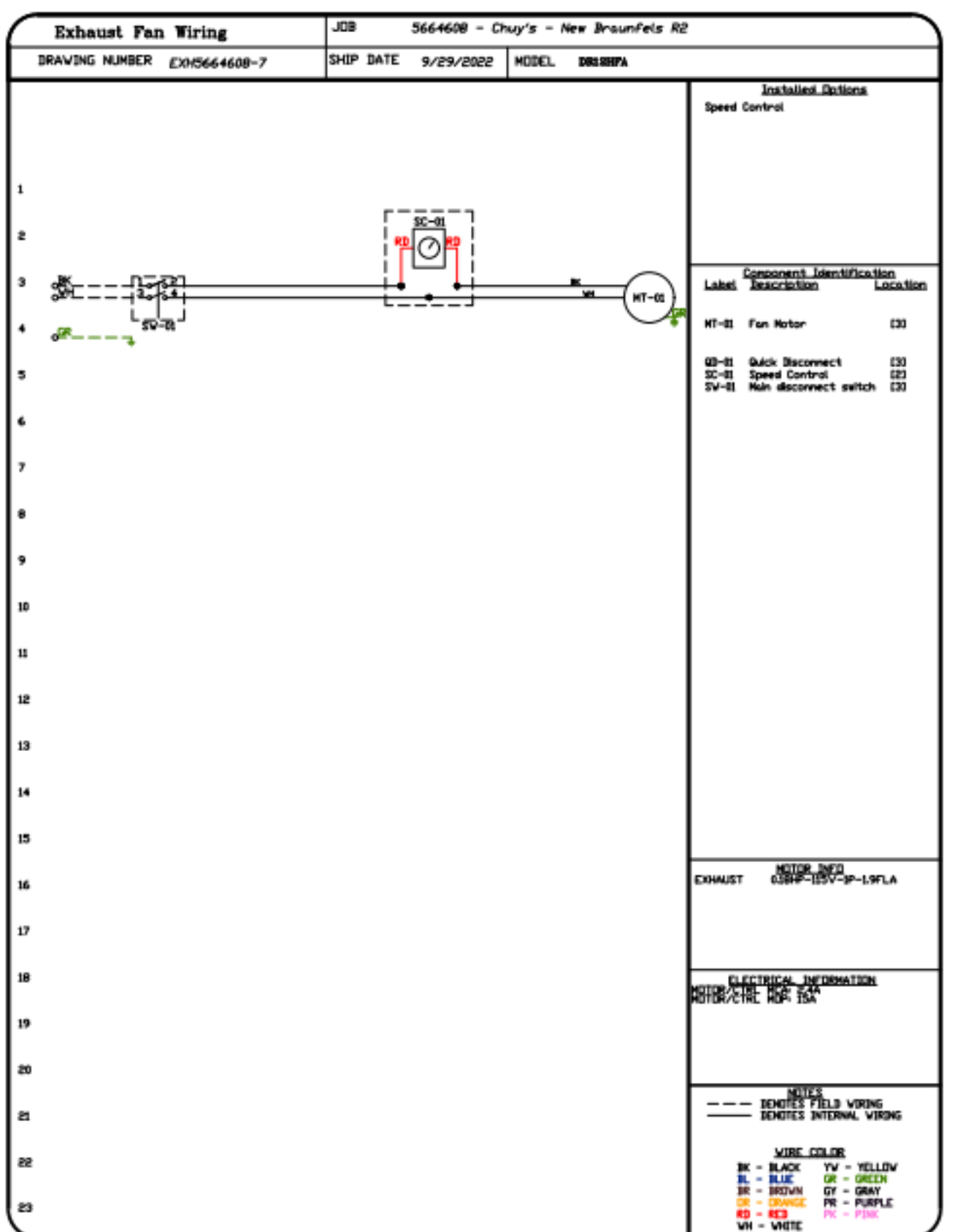
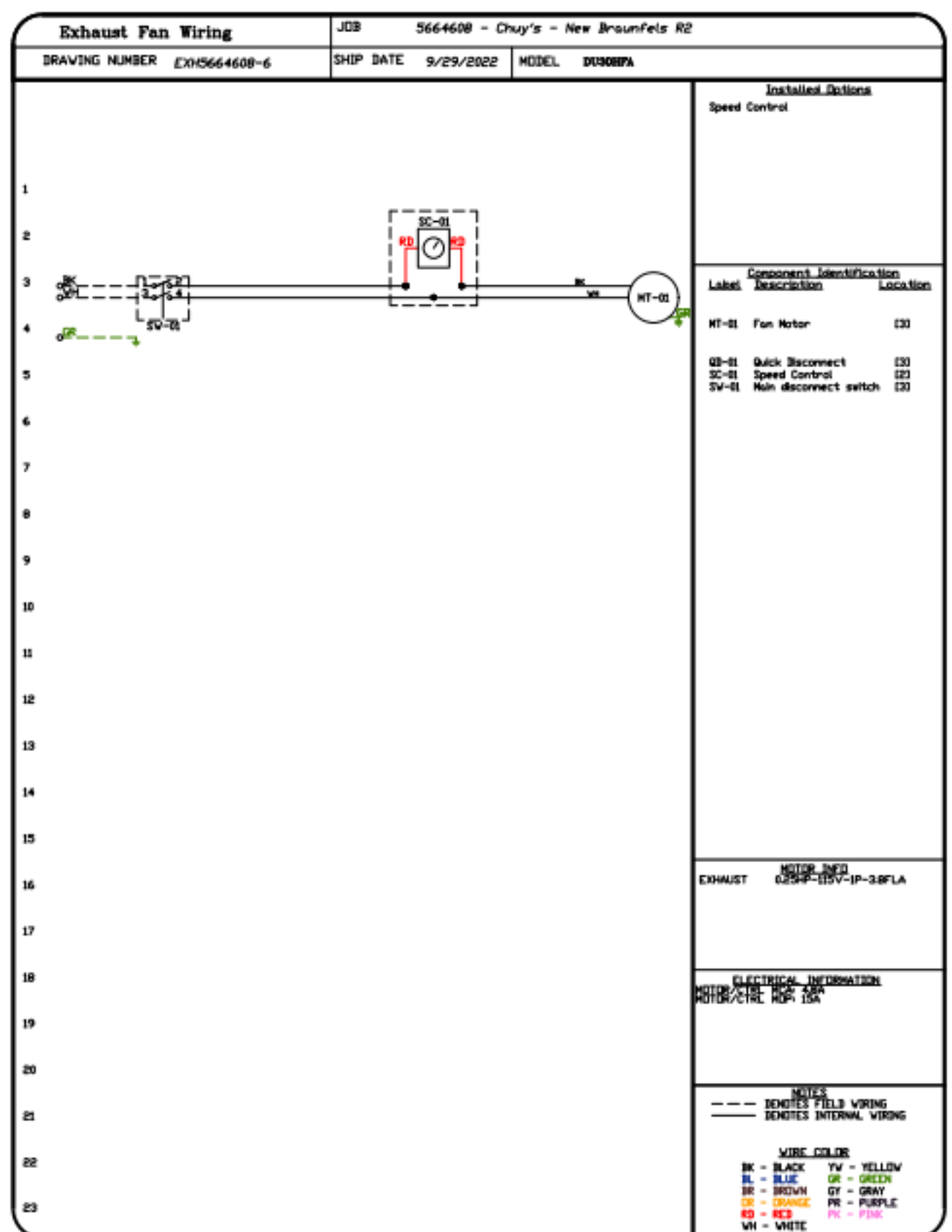
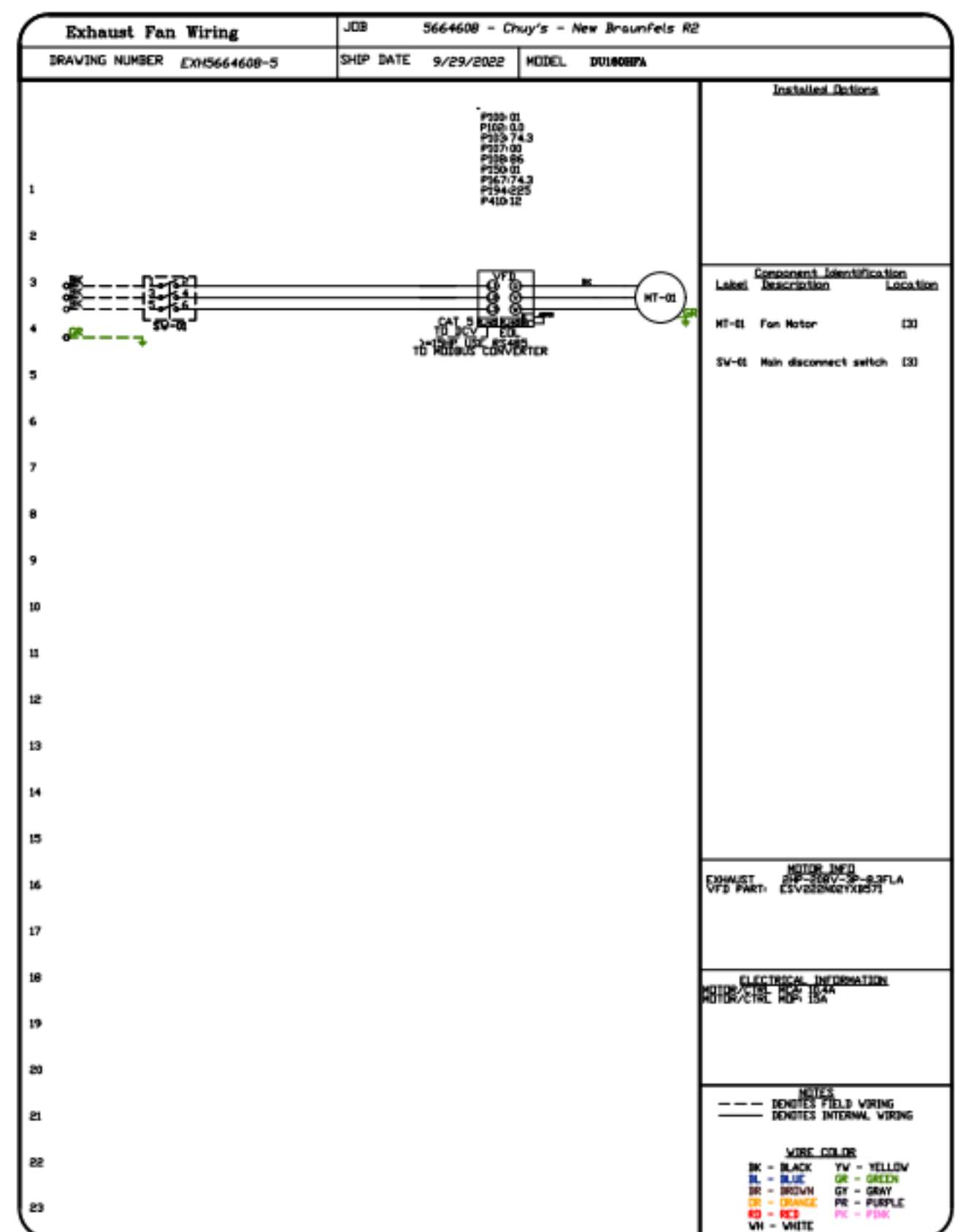
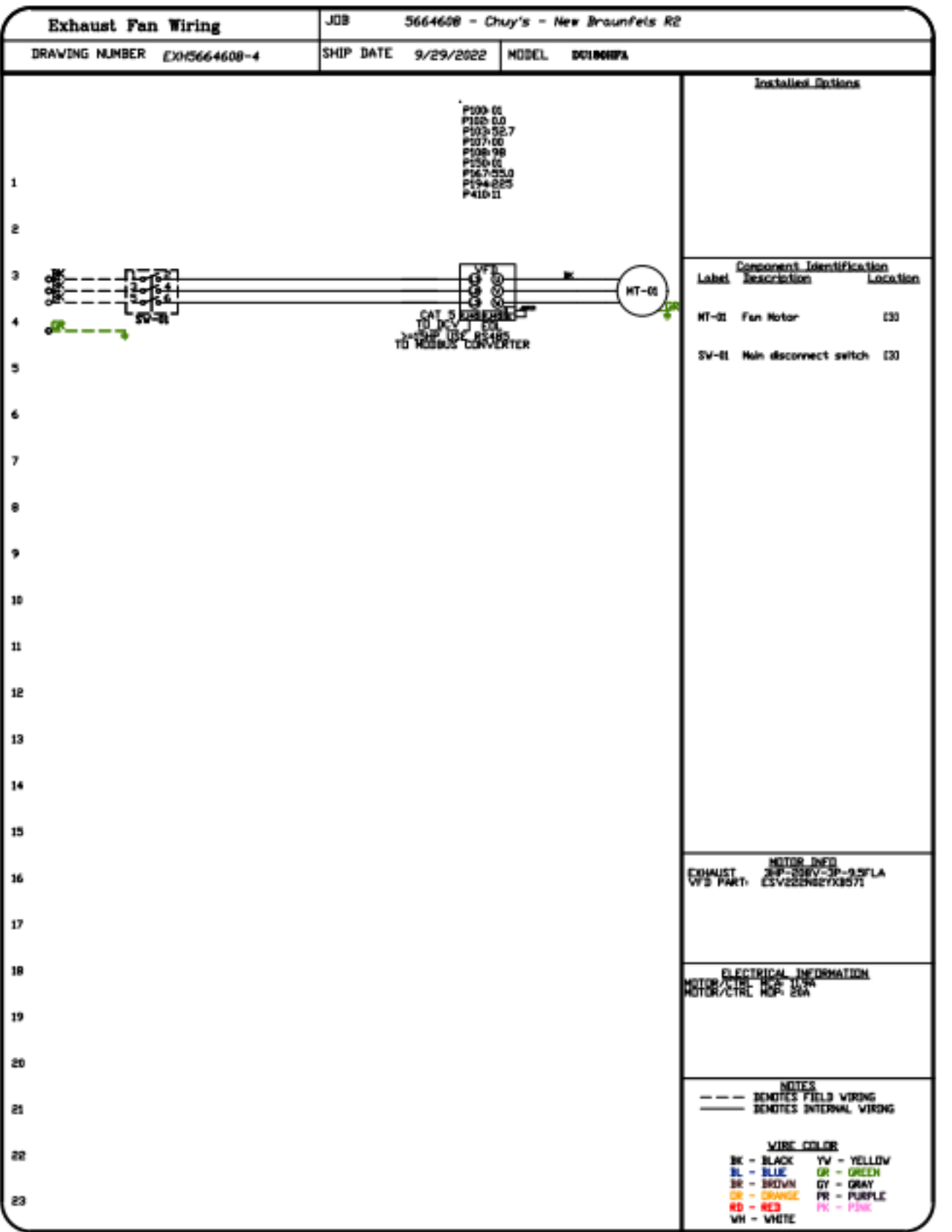
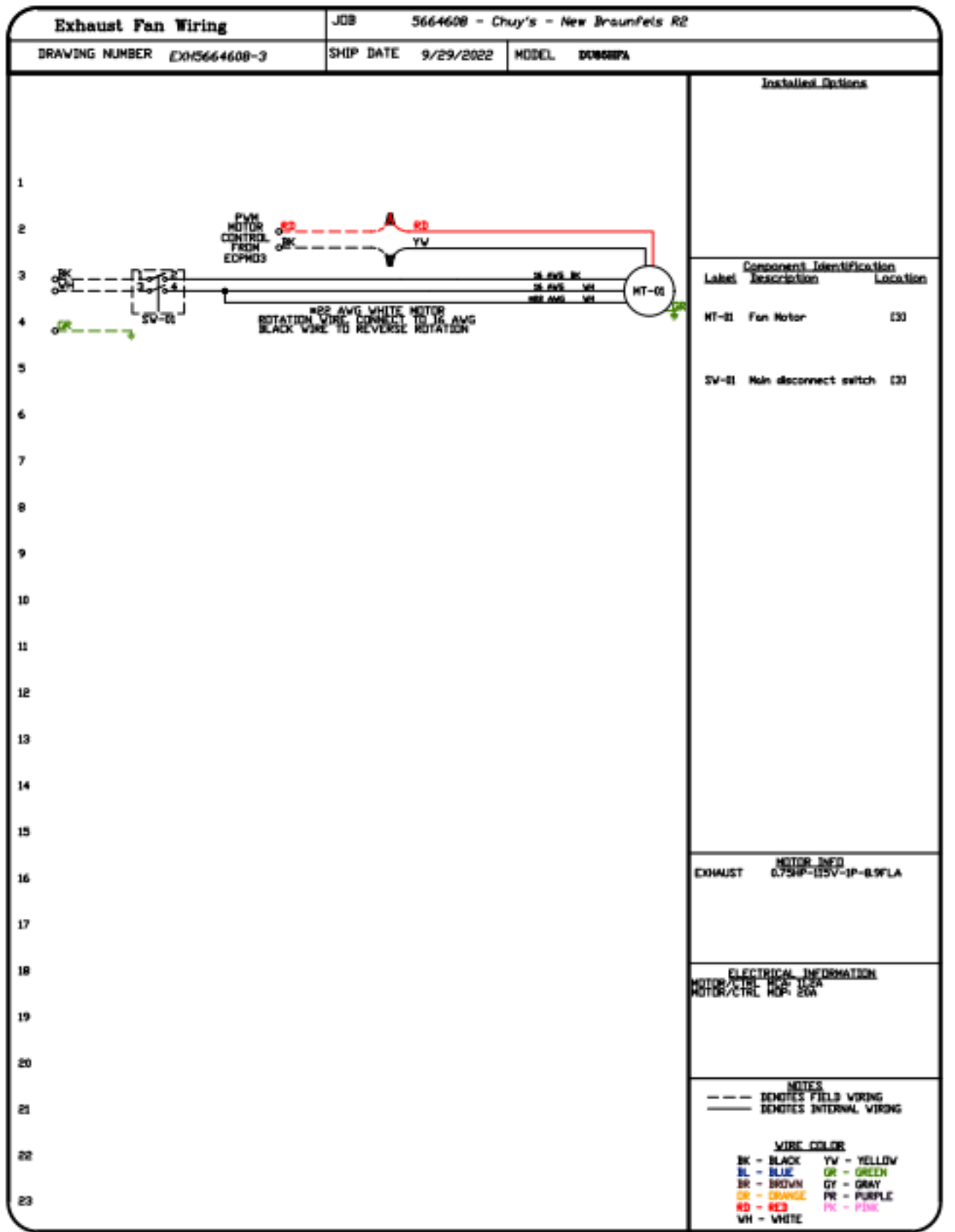
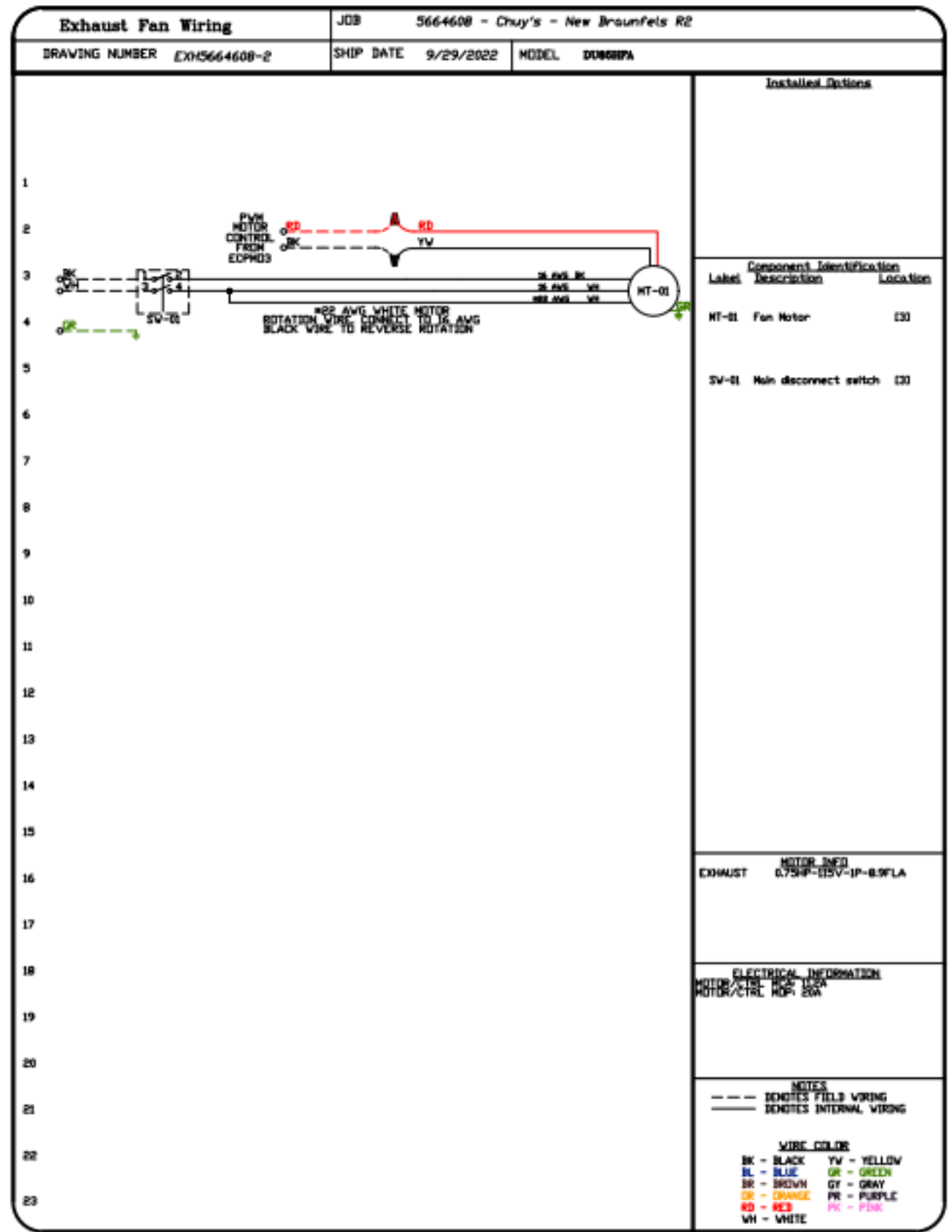
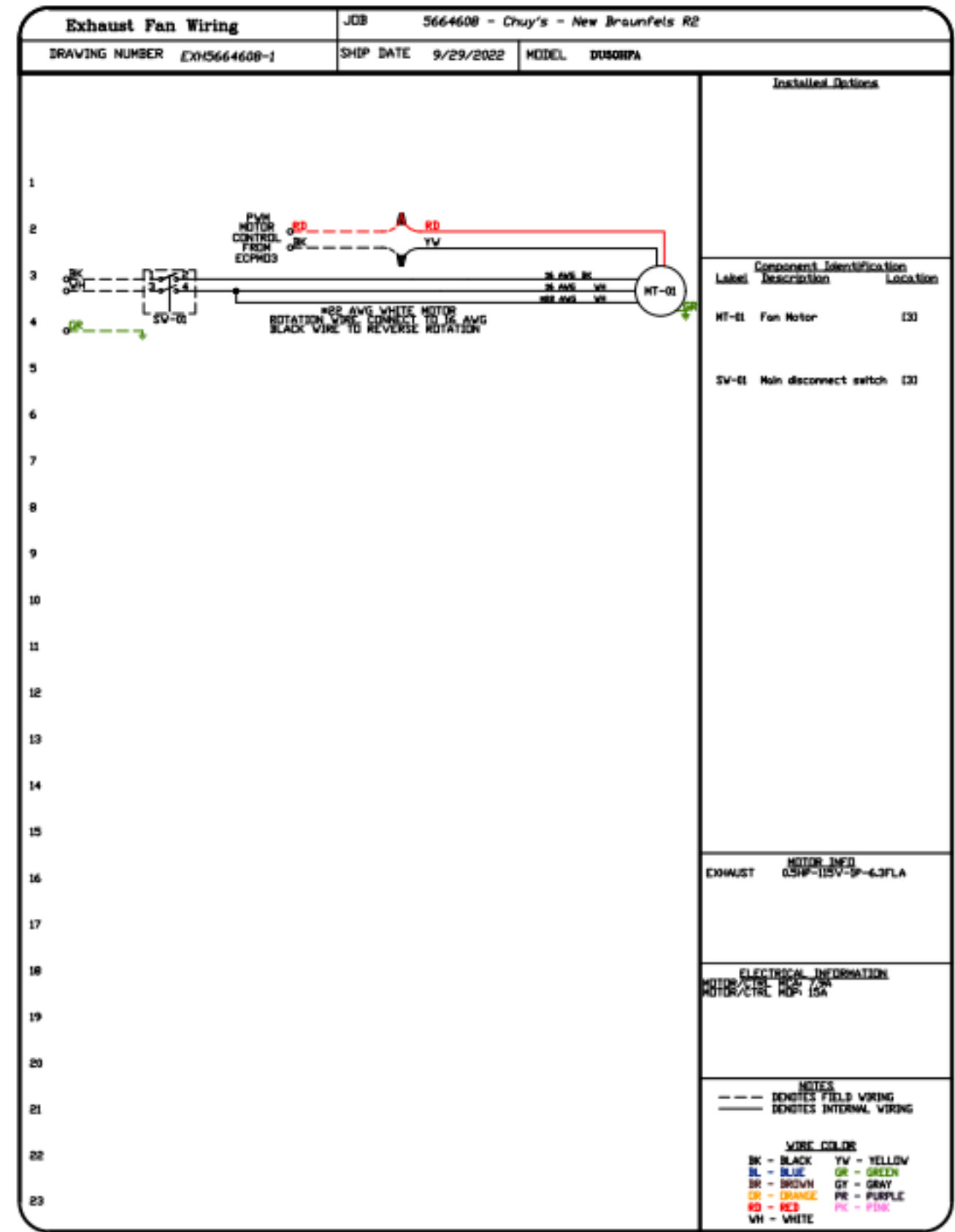
No.	Description	Date

2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

Drawn by: RM
Checked by: DD
Project Number: 04-21715
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Hood Drawings

HD-16



REVISIONS	
NO.	DESCRIPTION



Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
DRAWN BY: B. Law
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
19

CONSTRUCTION • ARCHITECTURE
PKWNY
Parkway C&A, LLP
1000 Civic Circle Lewisville, TX 75067
parkwayconstruction.com (972) 221-1979
Project Manager: Construction PM
Contact: 214-111-1111
Architect: Project Architect
Contact: 214-111-1111



Chuy's - New Braunfels
2557 IH 35 N
New Braunfels, TX 78132

Owner:
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1623 Toomy Road
Austin, TX 78704
Ph: (512) 473-2783
Contact: Michael Hatcher

Civil Engineer:
INK Civil
2021 W State Hwy 48 Ste 105
New Braunfels, TX 78132
Ph: (830) 358-7127
Contact: Shane Karl, PE

Architect:
PKWNY Architects
1000 Civic Circle
Lewisville, TX 75067
Ph: (469) 221-1979
Project Contact: Bill Pounds, AIA

MEP Engineer:
Dialectic, Inc.
310 W 20th Street, Ste. 200
Kansas City, MO 64108
Ph: (816) 872-7495
Contact: Joe Hillebrenner, P.E.

Structural Engineer:
Armstrong-Douglas Partners
6060 N Central Expressway
Dallas, TX 75208
Ph: (214) 237-7022
Contact: Scott Armstrong, P.E.

Landscape Architect:
BELLE FIRMA
4245 North Central Expy, Suite 501
Dallas, Texas 75205
Ph: (214) 865-7192
Contact: Kori Haug ASLA, CLARB



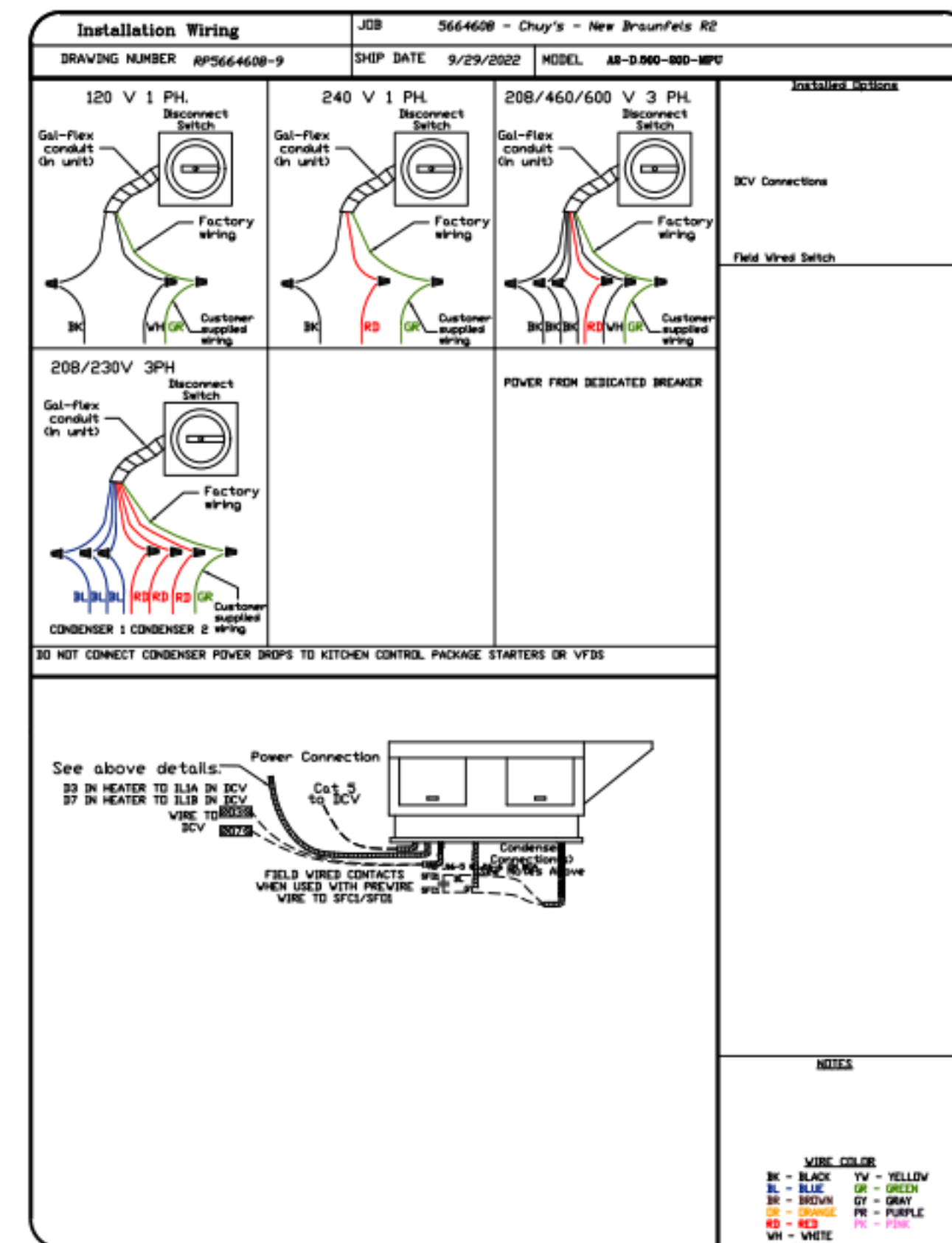
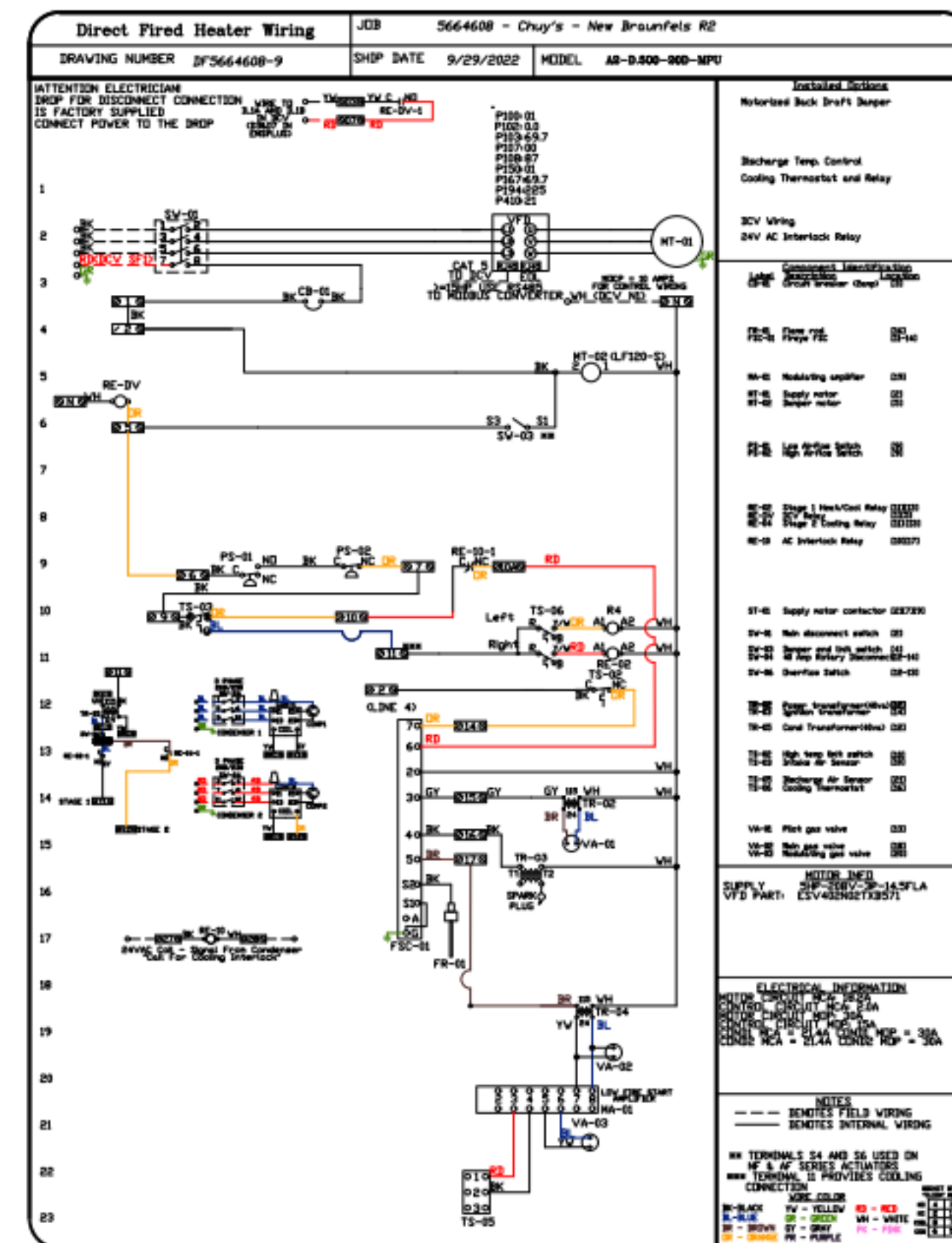
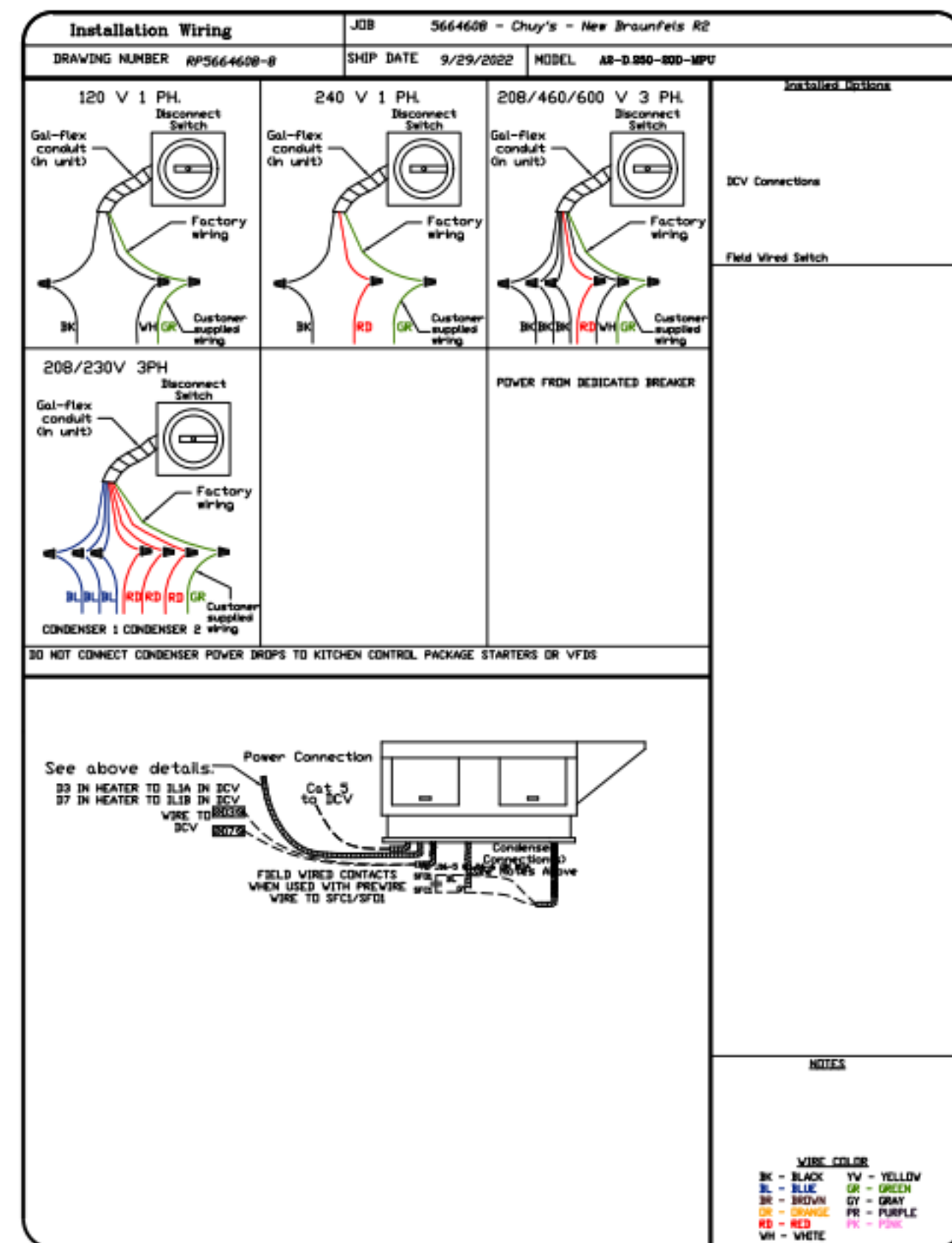
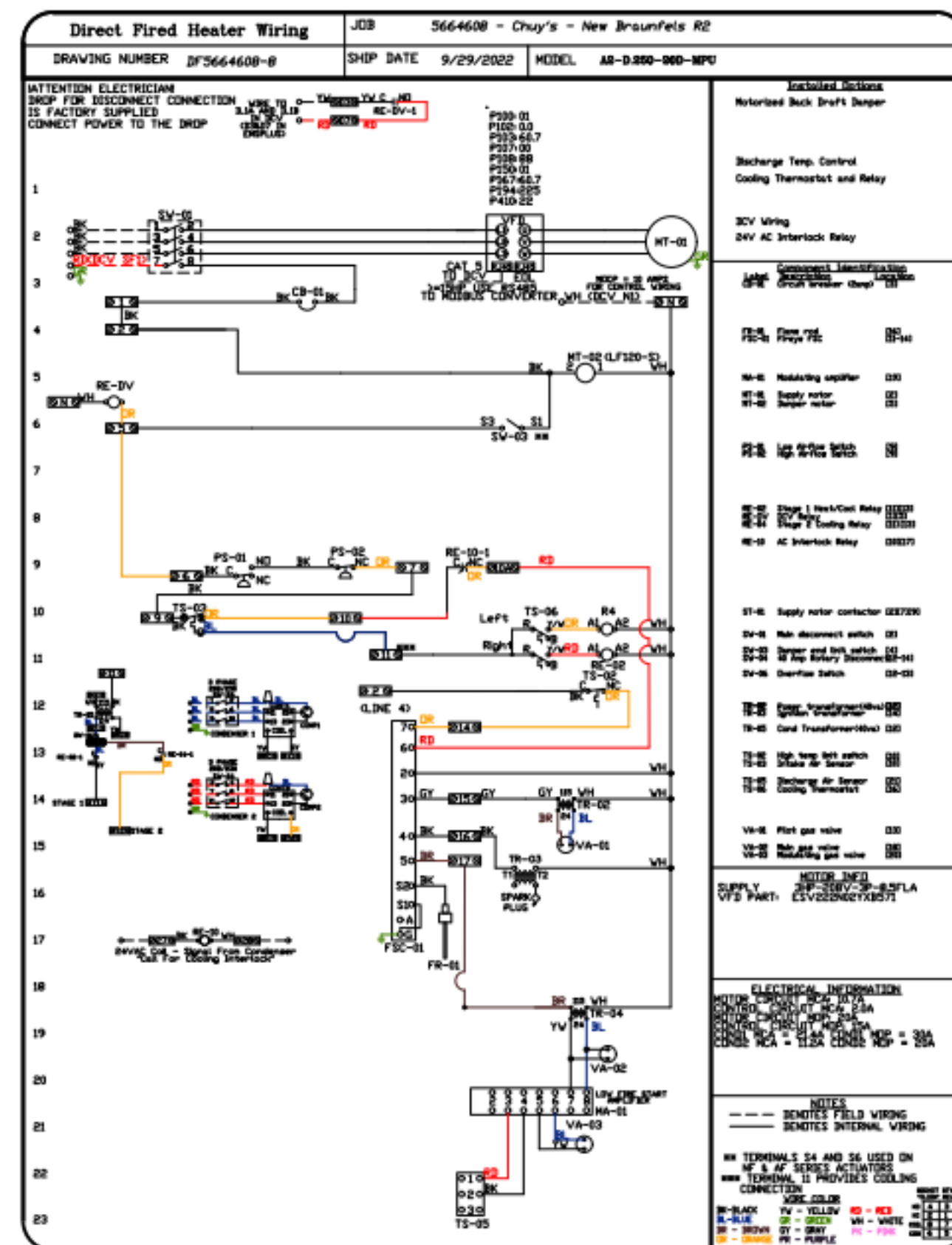
Architect: Bill D. Pounds

No.	Description	Date
2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

Drawn by: Author
Checked by: Checker
Project Number: 04-21715
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Hood Drawings

HD-19



REVISIONS	
NO.	DESCRIPTION



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Chuy's - New Braunfels R2
 NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
 DWG.#: 5664608
 DRAWN BY: B. Law
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 20



Chuy's - New Braunfels
 2557 IH 35 N
 New Braunfels, TX 78132

Owner:
 Chuy's OPOCO
 1623 Toomy Road
 Austin, TX 78704
 Ph: (512) 473-2783
 Contact: Michael Hatcher

Civil Engineer:
 INK Civil
 2021 W State Hwy 48 Ste 105
 New Braunfels, TX 78132
 Ph: (830) 358-7127
 Contact: Shane Karl, PE

MEP Engineer:
 Dialectic, Inc.
 310 W 20th Street, Ste. 200
 Kansas City, MO 64108
 Ph: (816) 872-7495
 Contact: Joe Hillebrenner P.E.

Structural Engineer:
 Armstrong-Dougllass Partners
 6060 N Central Expressway
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 Ph: (214) 237-7022
 Contact: Scott Armstrong, P.E.

Landscape Architect:
 BELLE FIRMA
 4245 North Central Expy, Suite 501
 Dallas, Texas 75205
 Ph: (214) 865-7192
 Contact: Kori Haug ASLA, CLARB



No.	Description	Date
2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
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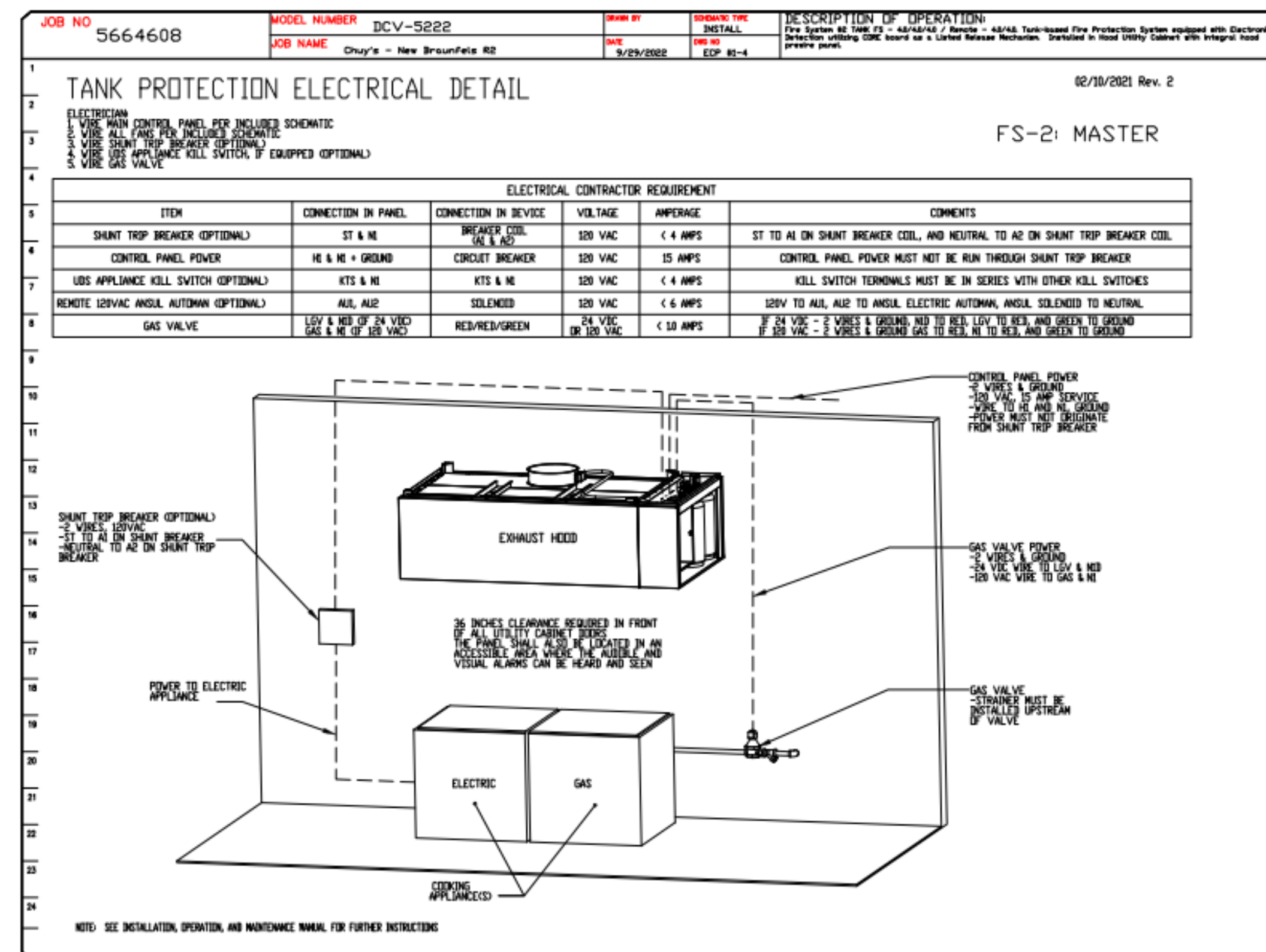
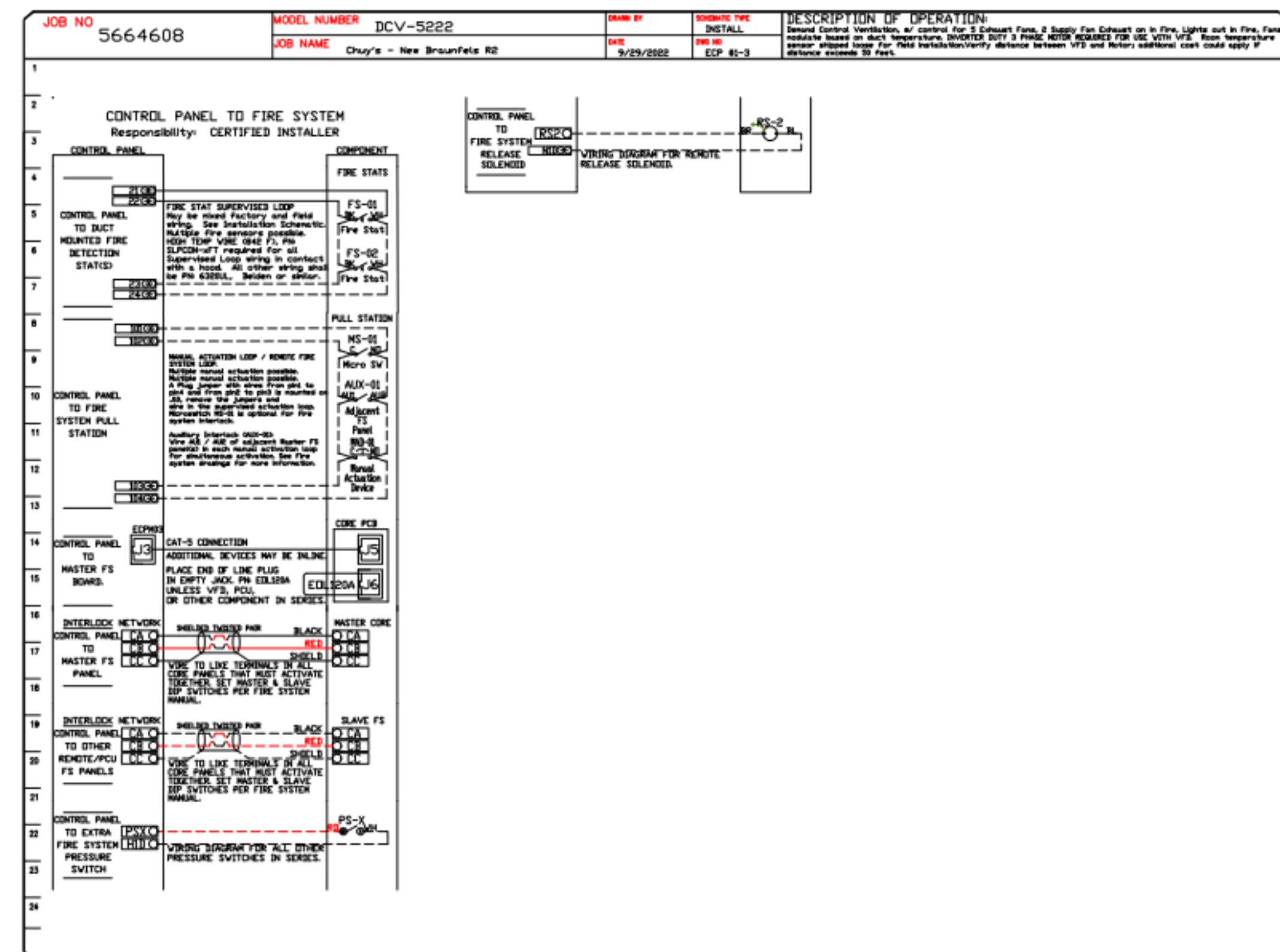
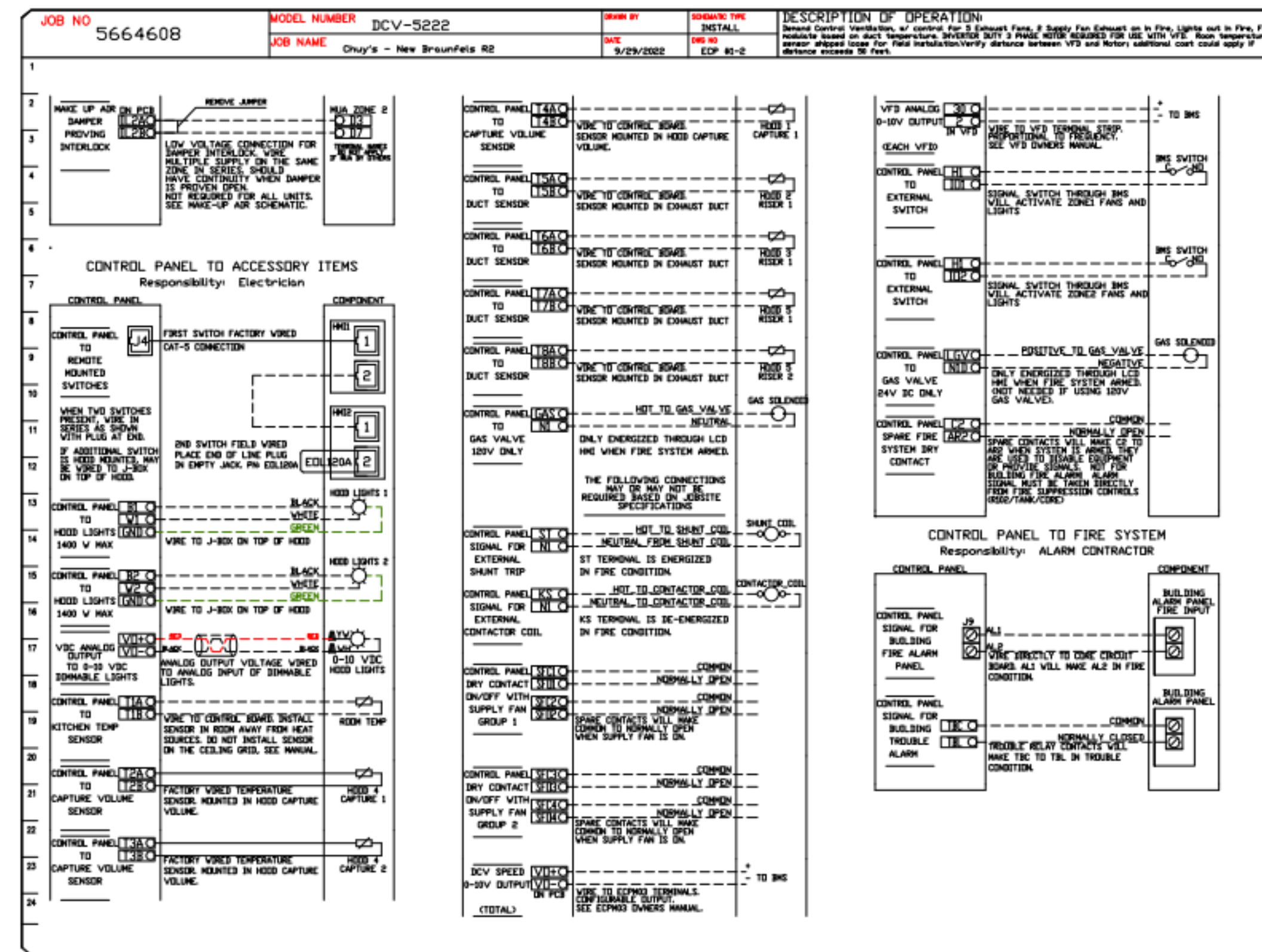
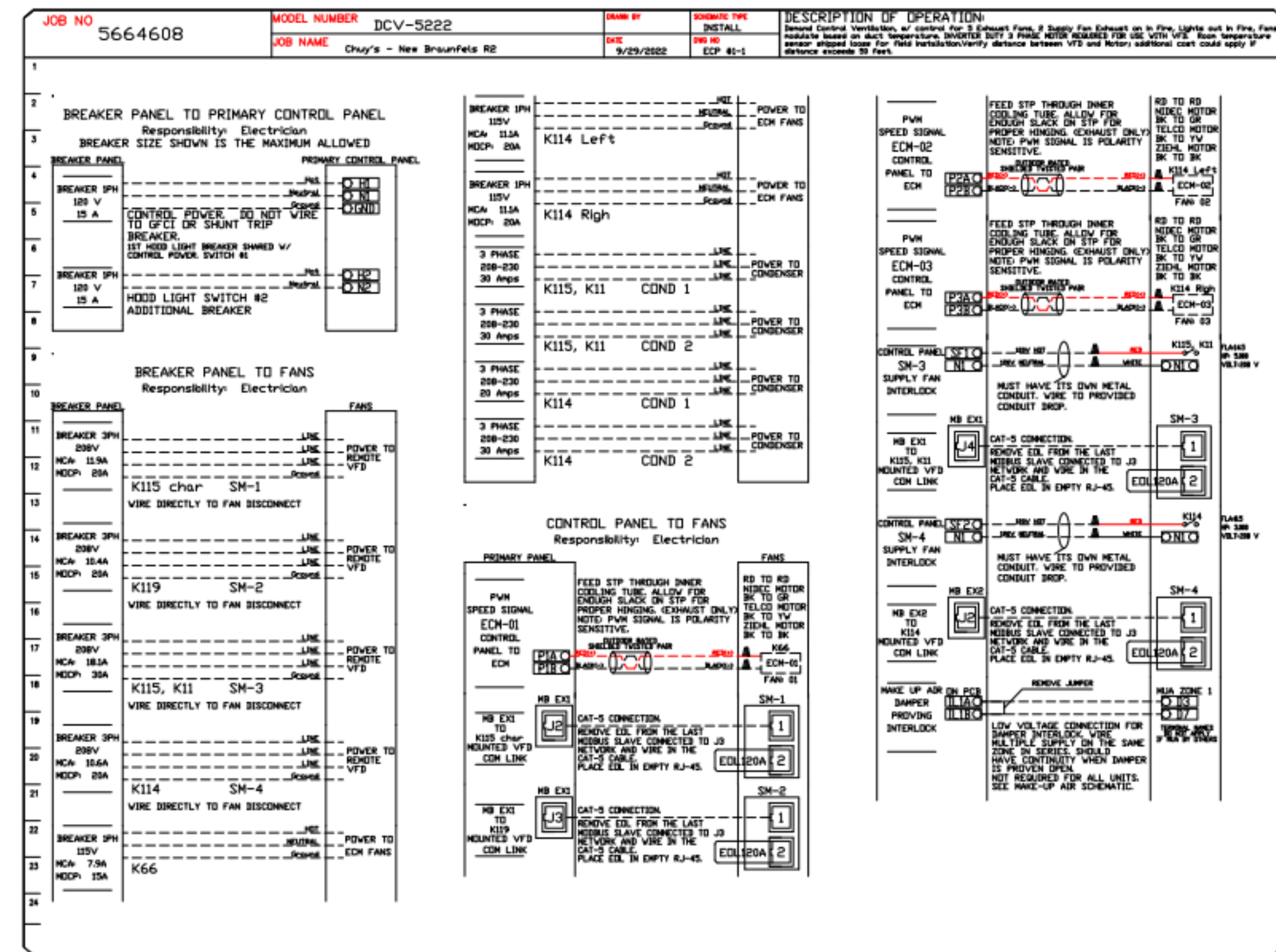
Drawn by: Author
 Checked by: Checker
 Project Number: 04-21715
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Hood Drawings

HD-20

ELECTRICAL PACKAGE - JOB#5664608

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1		DCV-5222	UTILITY CABINET LEFT	03 - UTILITY CABINET LEFT	2 LIGHT	SMART CONTROLS DCV	K66	EXHAUST	1	0.500	115	6.3
							K114 Left	EXHAUST	1	0.750	115	8.9
							K114 Right	EXHAUST	1	0.750	115	8.9
							K115 char	EXHAUST	3	3.000	208	9.5
			HOOD # 4	2 FAN								
						K119	EXHAUST	3	2.000	208	8.3	
						K114	SUPPLY	3	3.000	208	8.5	
						K115, K119	SUPPLY	3	5.000	208	14.5	



NO.	REVISIONS	DATE

Paragon National Accounts
www.captiveinc.com
4641 Paragon Park Rd., Raleigh, NC 27616 PHONE: (919) 862-2410 EMAIL: reg5@captiveware.com

Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
DRAWN BY: B. Law
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 21



Chuy's - New Braunfels
2557 IH 35 N
New Braunfels, TX 78132

Owner:
Chuy's OPO
1623 Toomy Road
Austin, TX 78704
Ph: (512) 473-2783
Contact: Michael Hatcher

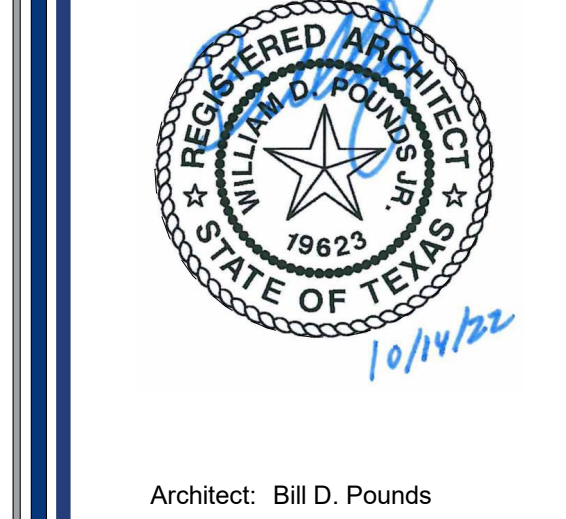
Civil Engineer:
INK CIVIL
2021 W State Hwy 46 Ste 105
New Braunfels, TX 78132
Ph: (830) 358-7127
Contact: Shane Karl, PE

Architect:
PKVNY Architects
1000 Civic Circle
Lewisville, TX 75067
Ph: (469) 221-1979
Project Contact: Bill Pounds, AIA

MEP Engineer:
Dialectic, Inc.
310 W 20th Street, Ste. 200
Kansas City, MO 64108
Ph: (816) 872-7495
Contact: Joe Hillebrenner, P.E.

Structural Engineer:
Armstrong-Douglas Partners
6060 N Central Expressway
Dallas, TX 75206
Ph: (214) 237-7022
Contact: Scott Armstrong, P.E.

Landscape Architect:
BELLE FIRMA
4245 North Central Expy, Suite 501
Dallas, Texas 75205
Ph: (214) 865-7192
Contact: Kori Haug ASLA, CLARB



Architect: Bill D. Pounds

No.	Description	Date
2	Construction Set	10/14/2022
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Drawn by: Author
Checked by: Checker
Project Number: 04-21715
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Chuy's - New Braunfels
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 New Braunfels, TX 78132

Owner:
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 1623 Toomy Road
 Austin, TX 78704
 Ph: (512) 473-2783
 Contact: Michael Hatcher

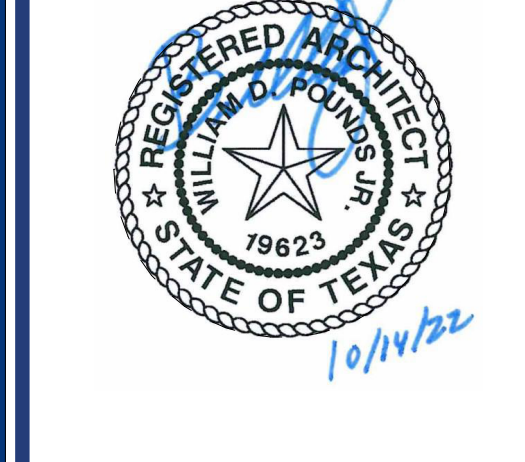
Civil Engineer:
 INK Civil
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 New Braunfels, TX 78132
 Ph: (830) 358-7127
 Contact: Shane Karl, PE

Architect:
 PKWY Architects
 1000 Civic Circle
 Lewisville, TX 75067
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 Contact: Kori Haug ASLA, CLARB



Architect: Bill D. Pounds

REVISIONS

NO.	DESCRIPTION	DATE



Chuy's - New Braunfels R2
 NEW BRAUNFELS, TX, 78132

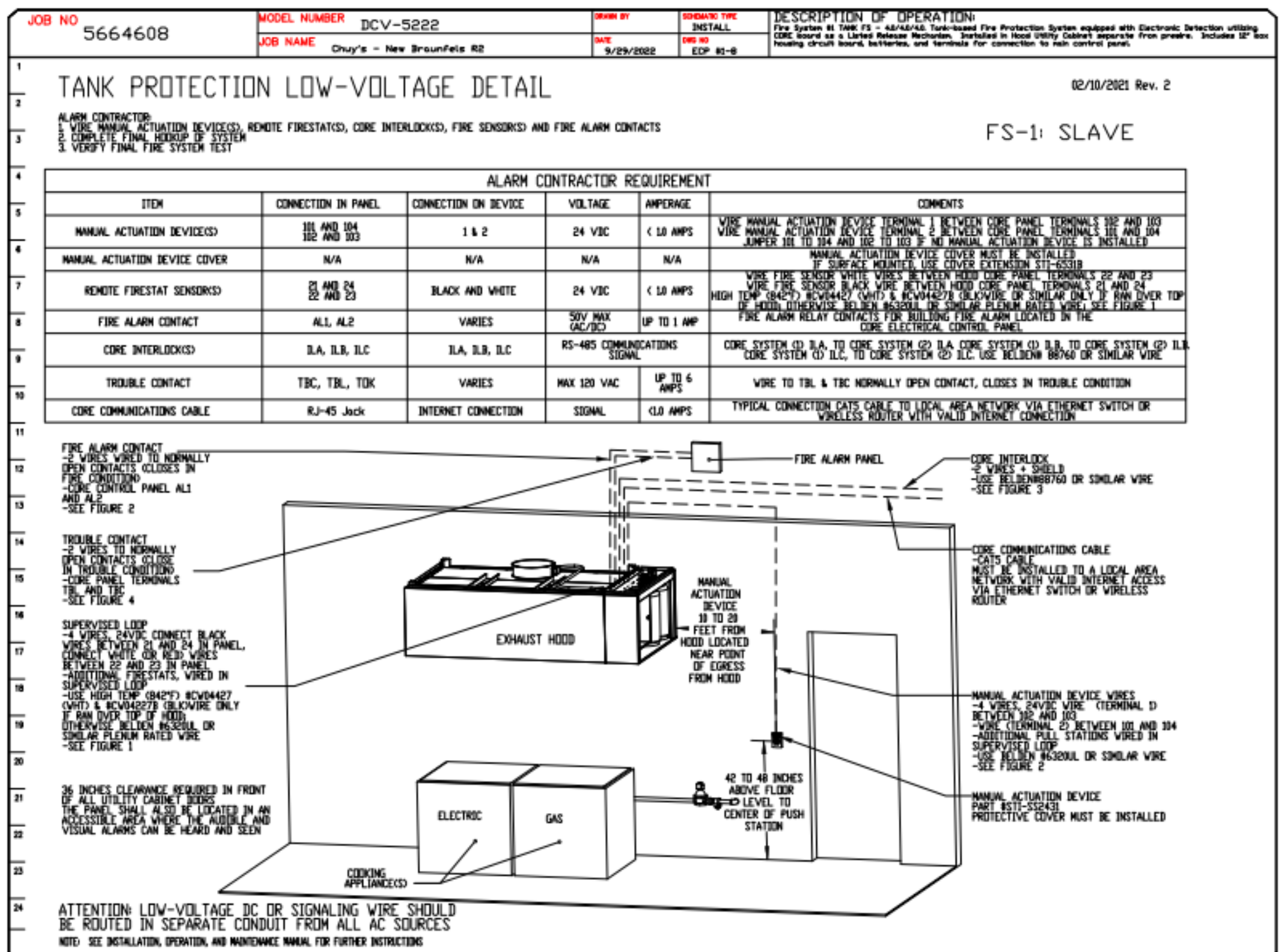
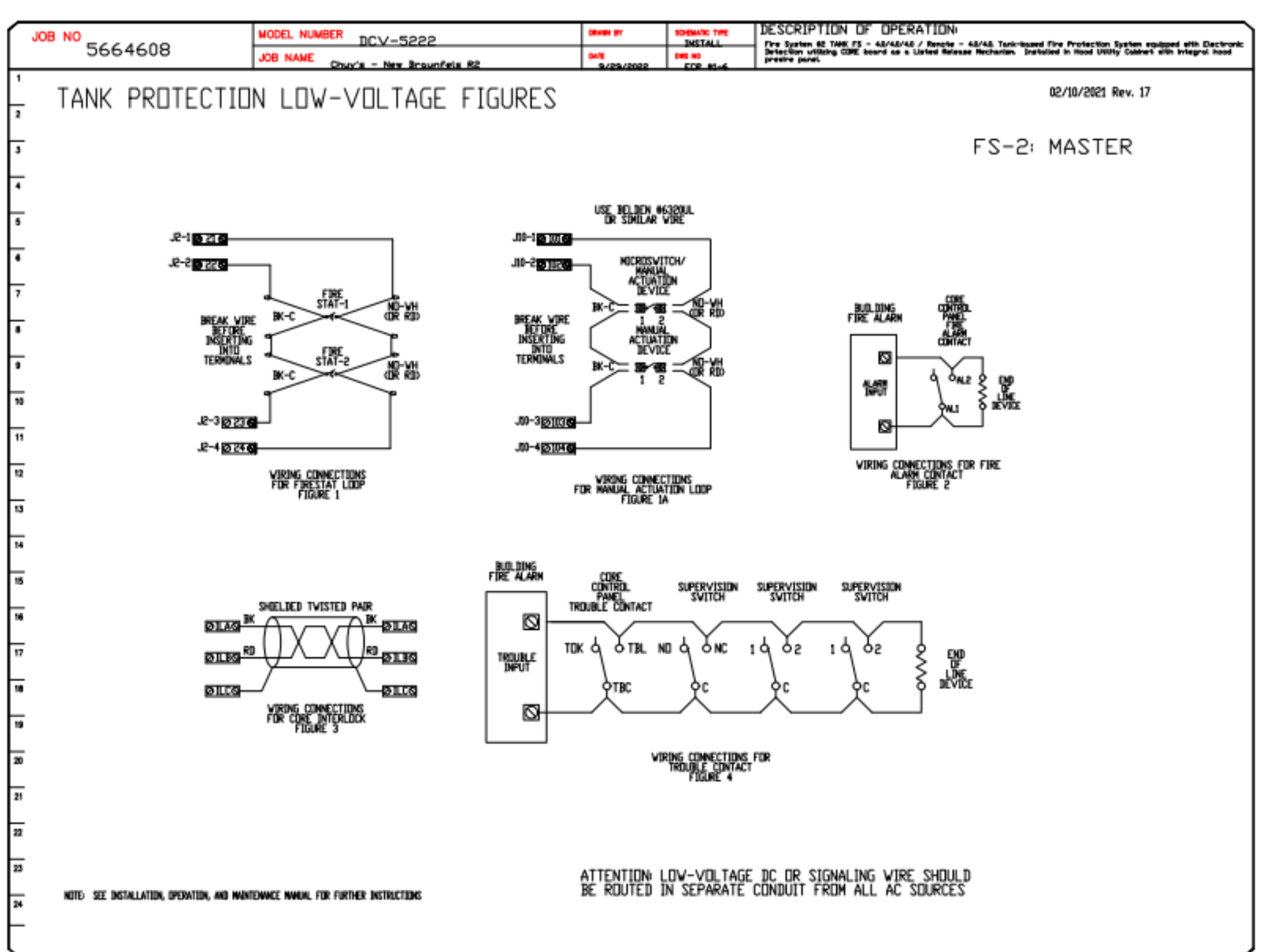
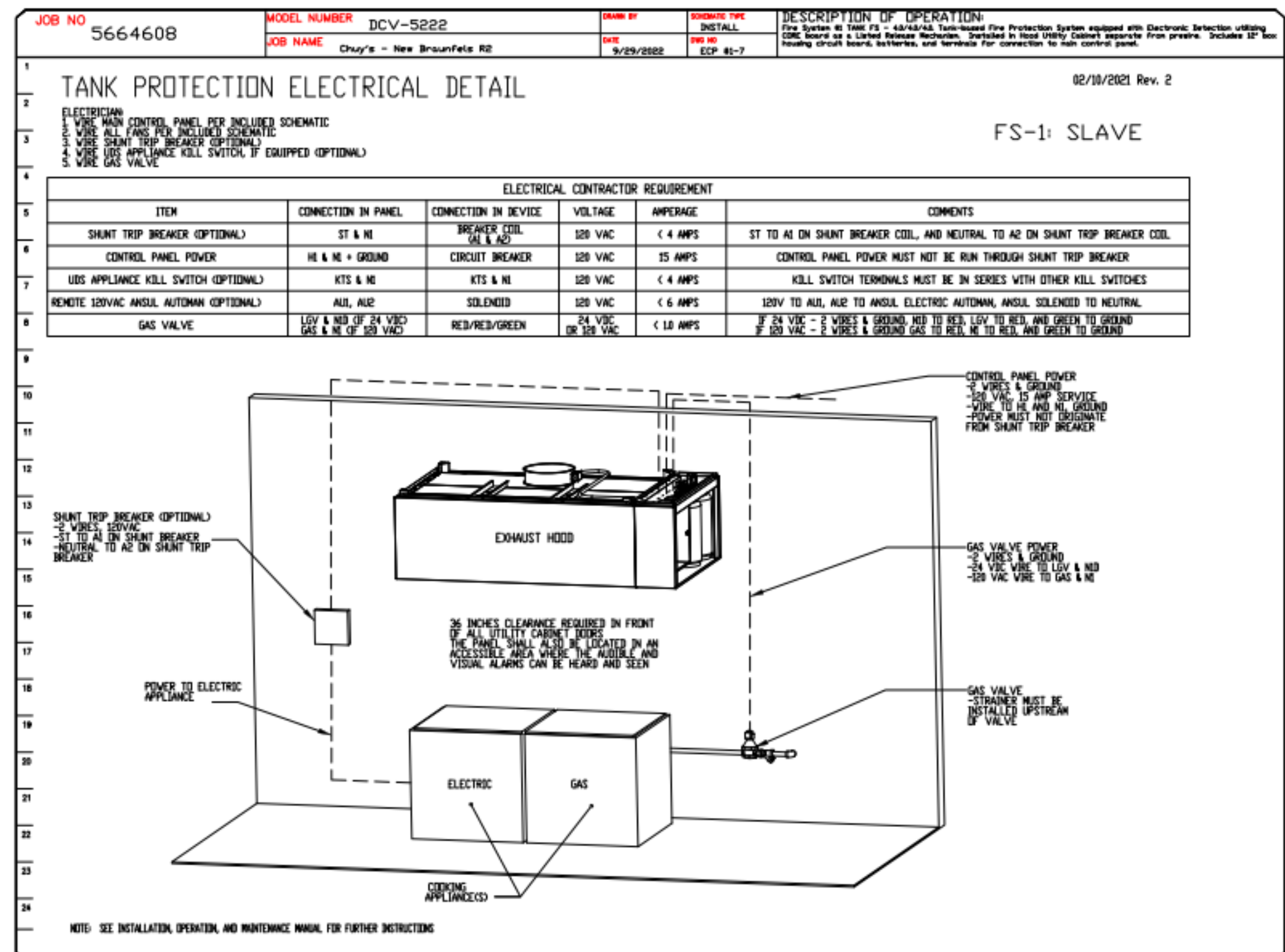
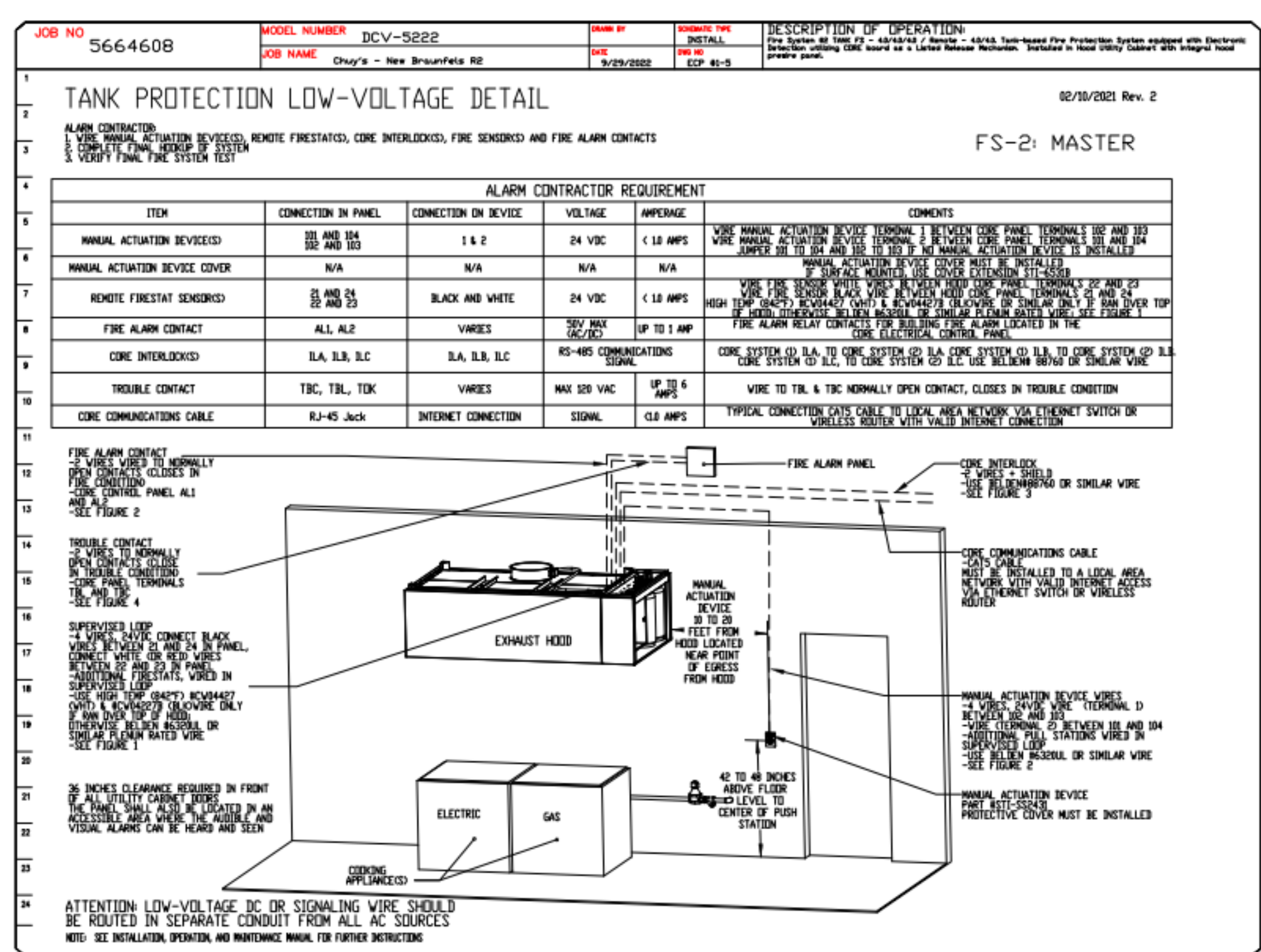
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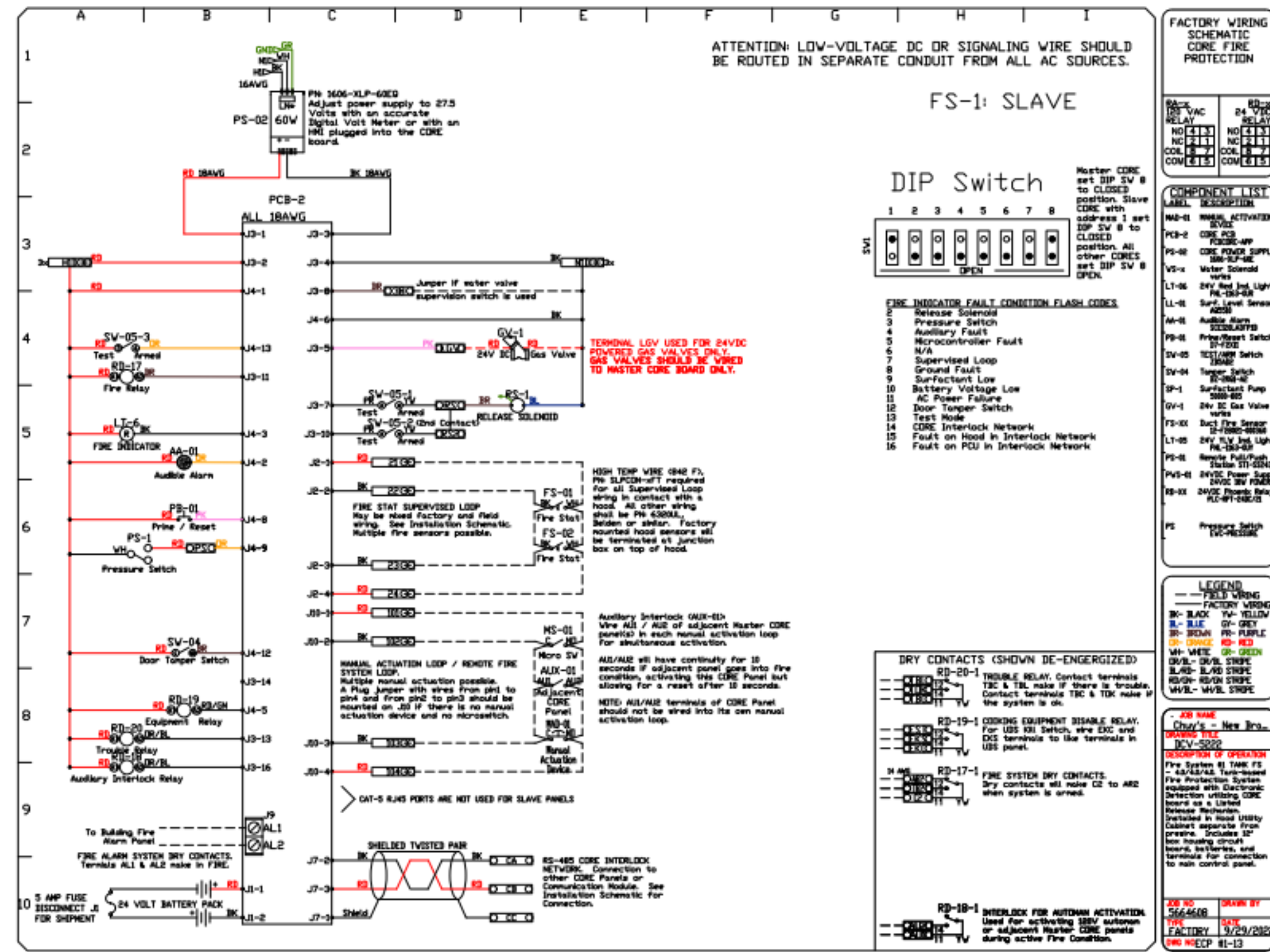
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 Checked by: Checker
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Hood Drawings

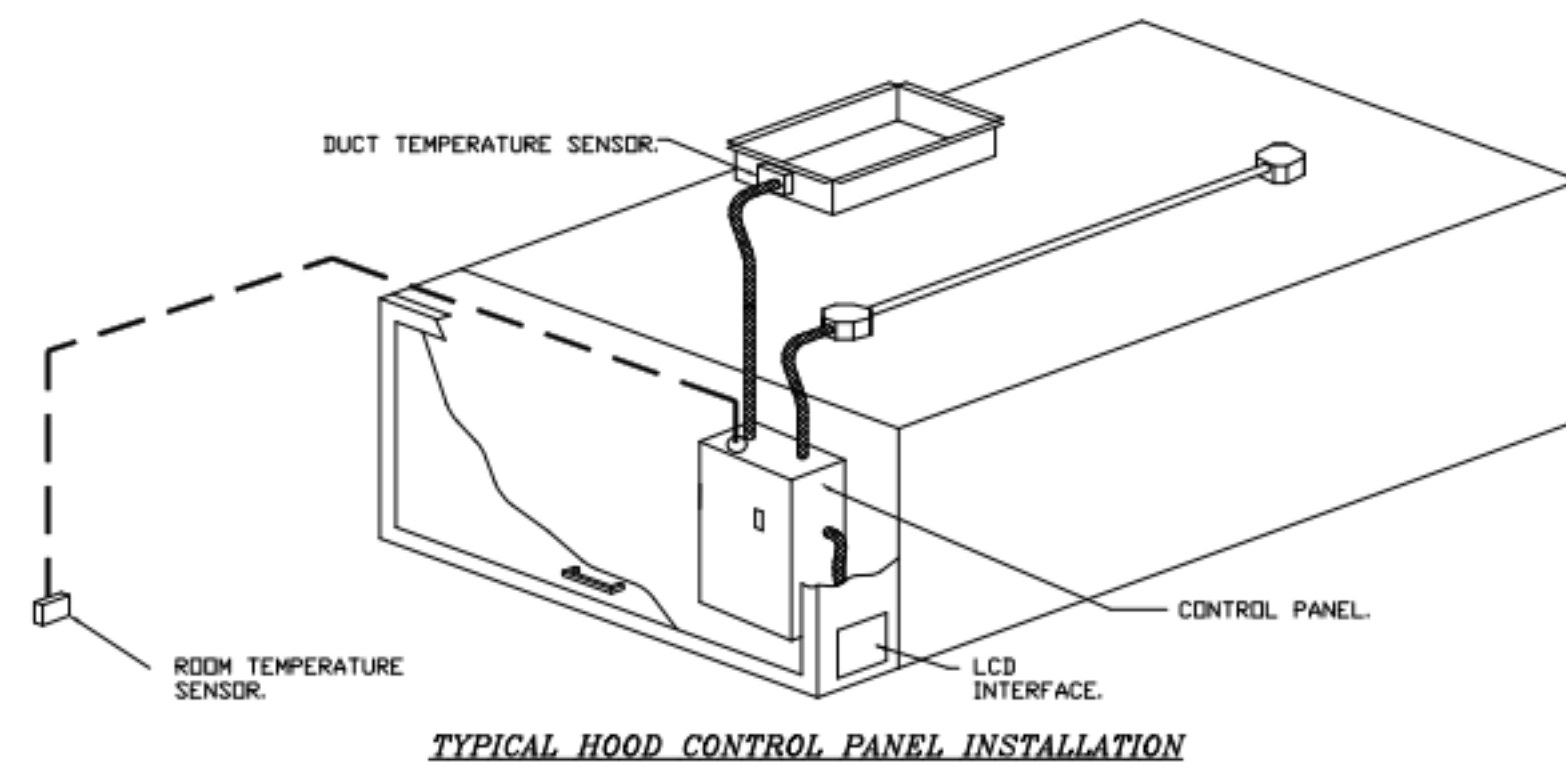
HD-22





DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURE SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 - ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 - VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 - AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.

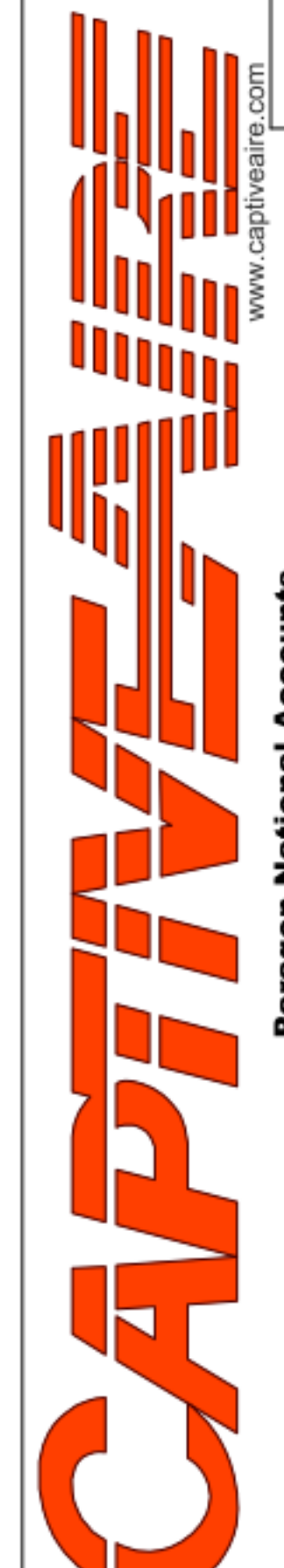


TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

- THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:
- **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
 - **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
 - **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
 - **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
 - **EMERGENCY:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN. THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

REVISIONS	
DESCRIPTION	DATE



Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
DWG.#: 5664608
DRAWN BY: B. Law
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 24



Chuy's - New Braunfels
2557 IH 35 N
New Braunfels, TX 78132

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Contact: Andrew Witkin

Architect: William Pounds, Jr.

No.	Description	Date
2	Construction Set	10/14/2022
B	Issue for Bid	06/17/2022
A	Issue for Construction	05/20/2022

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CHECKED BY: Checker
PROJ. No: 04-21715
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Hood Drawings


SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

REVISIONS	
DESCRIPTION	DATE



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Chuy's - New Braunfels R2
NEW BRAUNFELS, TX, 78132

DATE: 9/29/2022
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SHEET NO.
25



Chuy's - New Braunfels
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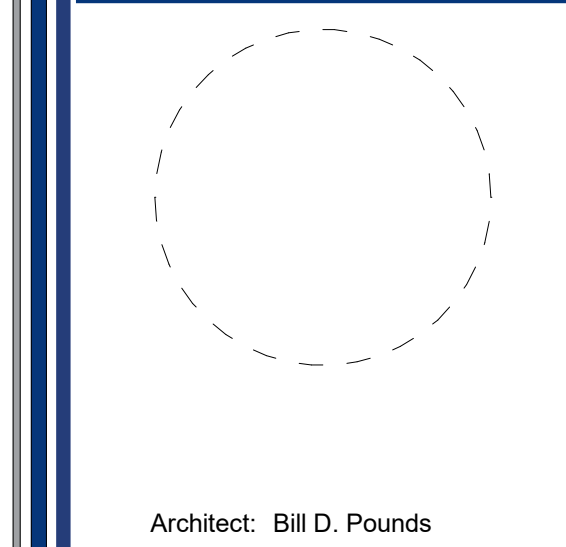
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No.	Description	Date
2	Construction Set	10/14/2022

Drawn by: Author
Checked by: Checker
Project Number: 04-21715
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Hood Drawings

HD-25

CONSTRUCTION • ARCHITECTURE

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