

HVAC KEY NOTES

- ① PROVIDE NEW ELECTRIC COOLING/ GAS HEATING ROOFTOP UNIT WITH PRE-FABRICATED, MINIMUM 14" INCH INSULATED ROOF CURB. MAINTAIN MINIMUM HEIGHT OF 8 INCHES FROM ROOF SURFACE. REFER TO HVAC SCHEDULE ON SHEET M3.1. FIELD VERIFY AND COORDINATE WITH STRUCTURAL AND ALL LOCAL AND STATE REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
- ② FIELD VERIFY EXHAUST AIR MAINTAINS A 10 FOOT MINIMUM CLEARANCE FROM ANY FRESH AIR INTAKE AND COMPLIES WITH ALL CODE REQUIREMENTS.
- ③ MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- ④ PROVIDE NEW AIR DEVICE. MAXIMUM LENGTH OF FLEXIBLE DUCT RUN-OUT IS 4 FEET, NO EXCEPTIONS. FIELD VERIFY & COORDINATE LOCATIONS PRIOR TO BID & CONSTRUCTION. RE-BALANCE AIR QUANTITY AS SHOWN ON PLAN. PROVIDE WITH MANUAL VOLUME DAMPER WITH ACCESSIBILITY. ANY DEFICIENCIES AND OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY.
- ⑤ PROVIDE NEW KITCHEN HOOD EXHAUST FAN REPLACING THE EXISTING FAN THROUGH THE EXISTING ROOF OPENING. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS IF PARAPET IS LOWER THAN 42" OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE AS REQUIRED. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING.
- ⑥ EXISTING ROOFTOP HVAC UNIT TO REMAIN. MECHANICAL CONTRACTOR TO CLEAN AND ADJUST UNIT, CHEMICALLY CLEAN COILS, PERFORM AN OIL SAMPLE TEST ON COMPRESSORS TO VERIFY CONDITION, REPLACE BELTS, VERIFY ALL CONTROLS ARE FUNCTIONAL AND MAKE SURE ALL EQUIPMENT IS IN PROPER OPERATING CONDITION. REPLACE ANY DEFECTIVE PARTS OR EQUIPMENT, GREASE AND/OR REPLACE IF REQUIRED, FAN BEARINGS, CHECK SHAFT FOR SCORING AND CHECK MOTORS FOR PROPER AMPERAGE DRAW. CLEAN OR REPLACE CONDENSATE DRAIN LINE AS REQUIRED. REBALANCE CFM AS SHOWN ON PLANS, RTU SCHEDULE, & KITCHEN/DINING PRESSURIZATION SCHEDULE. FURNISH UNIT WITH THREE SETS OF STANDARD FILTERS. CONTRACTOR TO REPLACE FILTERS JUST PRIOR TO AIR BALANCE AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE. REFER TO ROOFTOP UNIT SCHEDULE SHEET M3.1 FOR FURTHER INFORMATION AND ADDITIONAL REQUIREMENTS. REPORT IN WRITING ANY PROBLEMS WHICH WOULD REQUIRE REPLACEMENT OF ROOFTOP UNIT INSTEAD OF REUSE TO THE TENANT'S CONSTRUCTION MANAGER. FIELD VERIFY EXACT CONDITION AND LOCATION PRIOR TO BID.
- ⑦ STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 SENSOR ANALOG- AX60. SENSOR SHALL BE MOUNTED AT 12' AFF WITH SPLASH GUARD AND CAGE. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE REQUIREMENTS. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- ⑧ STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- ⑨ STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 CENTRAL CONTROL UNIT MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. COORDINATE WITH ELECTRICAL DRAWING E22 FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- ⑩ CONTRACTOR TO INSTALL OVERFLOW SWITCH INSIDE ROOFTOP UNIT DRAIN PAN, ON DOWNFLOW UNITS AND ALL OTHER COILS THAT DO NOT HAVE A SECONDARY DRAIN AND DO NOT HAVE A MEANS TO INSTALL AN AUXILIARY DRAIN PAN, A WATER-LEVEL MONITORING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN BECOMES RESTRICTED. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
- ⑪ NEW MANUAL PULL STATION SHALL BE LOCATED 10 FEET MINIMUM TO 20 FEET MAXIMUM FROM HOOD, ONE AT OR NEAR EVERY POINT OF EGRESS FROM THE HOOD COOKING AREA. PULL STATION SHALL BE SECURELY MOUNTED NOT LESS THAN 42" (INCHES) OR MORE THAN 48" (INCHES) FROM THE FLOOR. PROVIDE SIGNAGE FOR PULL STATION.
- ⑫ PROVIDE A LENOX FACTORY INSTALLED RETURN AND SUPPLY SIDE SMOKE DETECTOR. REFER TO SCHEDULE ON SHEET M3.1 AND LENOX SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM ON SHEET M4.2. SEE ADDED BOXED NOTE SHEET M3.1 HVAC SCHEDULE REGARDING SUPPLY SIDE SMOKE DETECTOR.
- ⑬ BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- ⑭ R/A DUCT DROP TO BE FULL SIZE OF CURB CONNECTION. PROVIDE PLENUM BOX ABOVE CEILING AS SHOWN ON PLAN.
- ⑮ SEE ELEVATION ON M2 FOR C.J FAN DUCTING REQUIREMENTS.

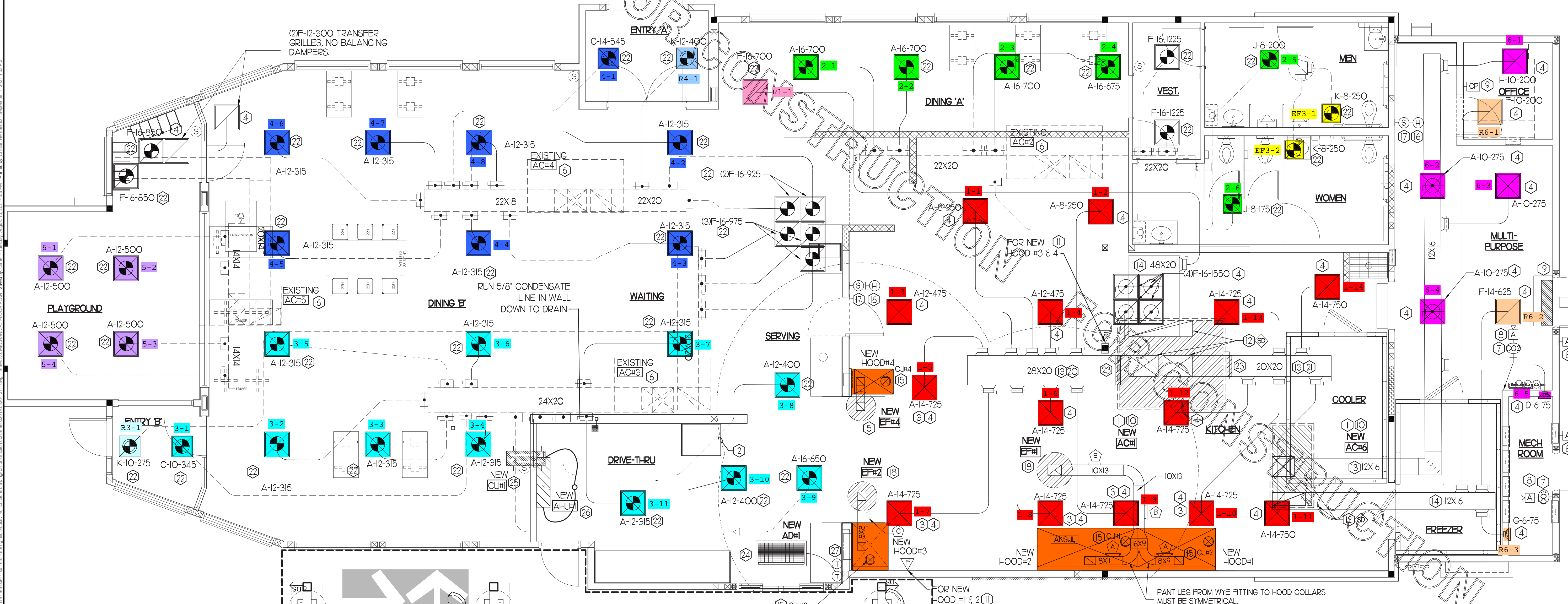
- ⑮ MOUNT NEW LENOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- ⑯ MOUNT NEW REMOTE TEMPERATURE SENSOR ON WALL AT 5'-0" AFF AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING KITCHEN ACH1, 5'-8" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PRIOR TO BID AND CONSTRUCTION.
- ⑰ PROVIDE NEW FAN WITH NEW CURB AT LOCATION SHOWN ON PLAN. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS IF PARAPET IS LOWER THAN 42" OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL ON M4.1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- ⑱ EXISTING AIR CURTAIN TO BE RELOCATED AS SHOWN ON PLAN. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
- ⑲ 20X28 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. ELBOW TO BE PARTIALLY LOCATED WITHIN STRUCTURE. BOTTOM OF ELBOW TO BE AT SAME ELEVATION AS BOTTOM OF 28X20 SUPPLY MAIN. 28X20 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 28X20 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- ⑳ 20X20 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. ELBOW TO BE PARTIALLY LOCATED WITHIN STRUCTURE. BOTTOM OF ELBOW TO BE AT SAME ELEVATION AS BOTTOM OF 20X20 SUPPLY MAIN. 20X20 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 20X20 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- ㉑ REPLACE EXISTING AIR DEVICE WITH NEW. CONNECT TO EXISTING DUCT SYSTEM. CONTRACTOR SHALL INSTALL NEW DUCT AS REQUIRED. ALL NEW ADDED DUCTWORK SHALL BE RIGID. USE OF FLEX DUCT IS LIMITED TO A MAXIMUM OF 4'-0" AROUND OBSTRUCTIONS, NO EXCEPTIONS (TYP. ALL). INSTALL HARD 90'S DOWN TO SUPPLY AIR & RETURN AIR GRILLES. SEE TAKE-OFF DETAIL ON SHEETS M4.1 & SPECIFICATIONS ON M5.1. RE-BALANCE TO AIR QUANTITY AS SHOWN ON PLAN. PROVIDE WITH ACCESSIBLE MANUAL VOLUME DAMPER. WHERE DUCTWORK IS BEING RE-USED, PROVIDE A 4 INCH COLLAR ON EACH DIFFUSER, STRAP & TAPE THE DIFFUSER TO ANY EXISTING DUCTWORK. SEE "DIFFUSER & GRILLE DETAIL FOR NEW CEILING" ON SHEET M4.1. INSULATE AND RECONNECT AS REQUIRED (TYP) ALL. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE LOCATIONS WITH LIGHTING AND CEILING LAYOUT AND ALL WALL ELEMENTS AS REQUIRED PRIOR TO BID.
- ㉒ PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH, OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION.
- ㉓ AIR CURTAIN, ADH MOUNTED IN CEILING GRID @ 18" OFF THE EXTERIOR WALL. MECHANICAL CONTRACTOR SHALL ADJUST AIR DEFLECTORS TOWARD BOTTOM OF TORMAX DOOR OPENING.
- ㉔ SET CONDENSING UNIT ON ROOF USING TWO CURBS PLUS CP54 EQUIPMENT CURBS. SECURE CONDENSING UNIT TO CURBS ARRANGED IN PARALLEL. SET LONG SIDE OF CURB PARALLEL TO ROOF SLOPE FLASH INTO ROOF BY GC. FINAL LOCATION TO BE DETERMINED IN THE FIELD. ALL MAINTENANCE CLEARANCE OF NEW AND EXISTING EQUIPMENT SHALL BE MAINTAINED.
- ㉕ LOCATE AHU IN MOUNTED 7'-0" AFF TO BOTTOM OF UNIT. ROUTE REFRIGERANT PIPING ABOVE CEILING AND UP THRU ROOF TO CONDENSING UNIT. REFER TO M3.1 FOR MORE INFORMATION.
- ㉖ LOCATE AHU TSTAT AT 5'-0" AFF. COORDINATE EXACT LOCATION WITH OTHER TRADES. ROUTE WIRING BACK TO AHU AT WALL.

HVAC GENERAL NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THE PLAN & RTU SCHEDULE ON SHEET M-3.1. IF AIR FLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER.
3. NO PIPING OR DUCTWORK ALLOWED ABOVE ANY ELECTRICAL/CONTROL PANELS.
4. COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE, & PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR TO NOTIFY DESIGN TEAM WITHOUT DELAY IF ACTUAL LOCATION OF EXISTING MECHANICAL EQUIPMENT DOES NOT MATCH FLOOR PLAN.
5. CONTRACTOR SHALL CLEAN & REFURBISH ALL EXISTING DUCTWORK. PATCH & REPAIR OPENING AIR TIGHT OF EXISTING DUCTWORK AS REQUIRED (TYPICAL ALL). FIELD VERIFY AND COORDINATE ALL EXISTING HVAC SIZES, LOCATIONS, AND CONDITION PRIOR TO BID.
6. REUSE AND REWORK EXISTING HVAC DUCTWORK. PROVIDE NEW SECTION FOR RECONNECTION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID.
7. CONTRACTOR SHALL BALANCE, INSPECT, REPAIR, OR REPLACE AS NECESSARY IF REQUIRED FOR EXISTING CEILING MOUNTED AIR DEVICES TO REMAIN. FIELD VERIFY AND COORDINATE EXACT SIZE, AIR QUANTITY, LOCATION, AND CONDITION PRIOR TO BID. AIR FLOW SHALL REMAIN AS IS UNLESS NOTED ON PLAN, OR DIRECTED BY CONSTRUCTION MANAGER. ANY DEFICIENCIES AND OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY. COORDINATE AIR BALANCE RESULTS WITH CONSTRUCTION MANAGER.

NOTE:
ALL NEW HOODS SHALL BE RATED WITH ONE INCH THICK LAYER OF FACTORY INSTALLED INSULATION TO MEET "ZERO INCH CLEARANCE" TO COMBUSTIBLE MATERIALS. HOOD SHALL BE CERTIFIED BY ETL SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2, AND NSF LISTED.

NOTE: IF BALANCING DAMPERS ARE NOT EXISTING IN THE BRANCH DUCT OR AT THE TAKE-OFF, MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL NEW BALANCING DAMPERS WITHIN THE BRANCH DUCT (TYPICAL).



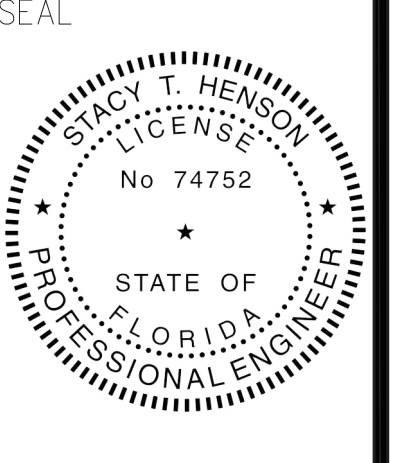
MECHANICAL FLOOR PLAN
1/4" = 1'-0"
TRUE NORTH PROJECT NORTH



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Revisions:

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SHEET TITLE
MECHANICAL
FLOOR PLAN

VERSION: 19.045
ISSUE DATE: 10.2019

Job No. : 19.0326
Store : 1657
Date : 01.2020
Drawn By : CH
Checked By : JL

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MI

KITCHEN HOOD SYSTEMS NOTES

- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
- THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
- THE R-402 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER HIRED BY HALTON.
- HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
- URNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, NO EXCEPTIONS ALLOWED. NO MITERED FITTINGS ALLOWED.
- ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
- WRAP NEW GREASE DUCT WITH UNIFRAX FIBREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FIBREWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
- SUPPORT HOOD#1-4 WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP * TAB PORT	CAPTURE JET CFM & SP.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
NEW HOOD#1	832	0.23	55 * 0.30"	CANOPY	9'X8"	74	37	38	HALTON	KVL-2	I
NEW HOOD#2	1080	0.24	72 * 0.30"	CANOPY	11'X8"	96	37	38	HALTON	KVL-2	I
NEW HOOD#3	701	0.39	30 * 0.29"	CANOPY	8'X8"	42	34	38	HALTON	KVL-C	I
NEW HOOD#4	390	0.42	18 * 0.30"	CANOPY	8'X8"	24	31	38	HALTON	KVL-D	I

NOTES
DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).

REMARKS
I. TYPICAL INSTALLATION FOR NEW HOODS. FIELD VERIFY & COORDINATE WITH HOOD DRAWINGS BY HALTON. REFER TO SHEET M4.1 & M4.2 PRIOR TO BID & CONSTRUCTION.

GREASE EXHAUST DUCT CLEARANCE NOTE

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

CAPTURE JET NOTE

REFER TO "CAPTURE-JET FAN INSTALLATION AND DIMENSIONAL DATA" SCHEDULE ON HALTON SHOP DRAWINGS (SHEET M4.1) FOR INFORMATION ON CAPTURE JET FAN.

CLEANOUT DOOR NOTE

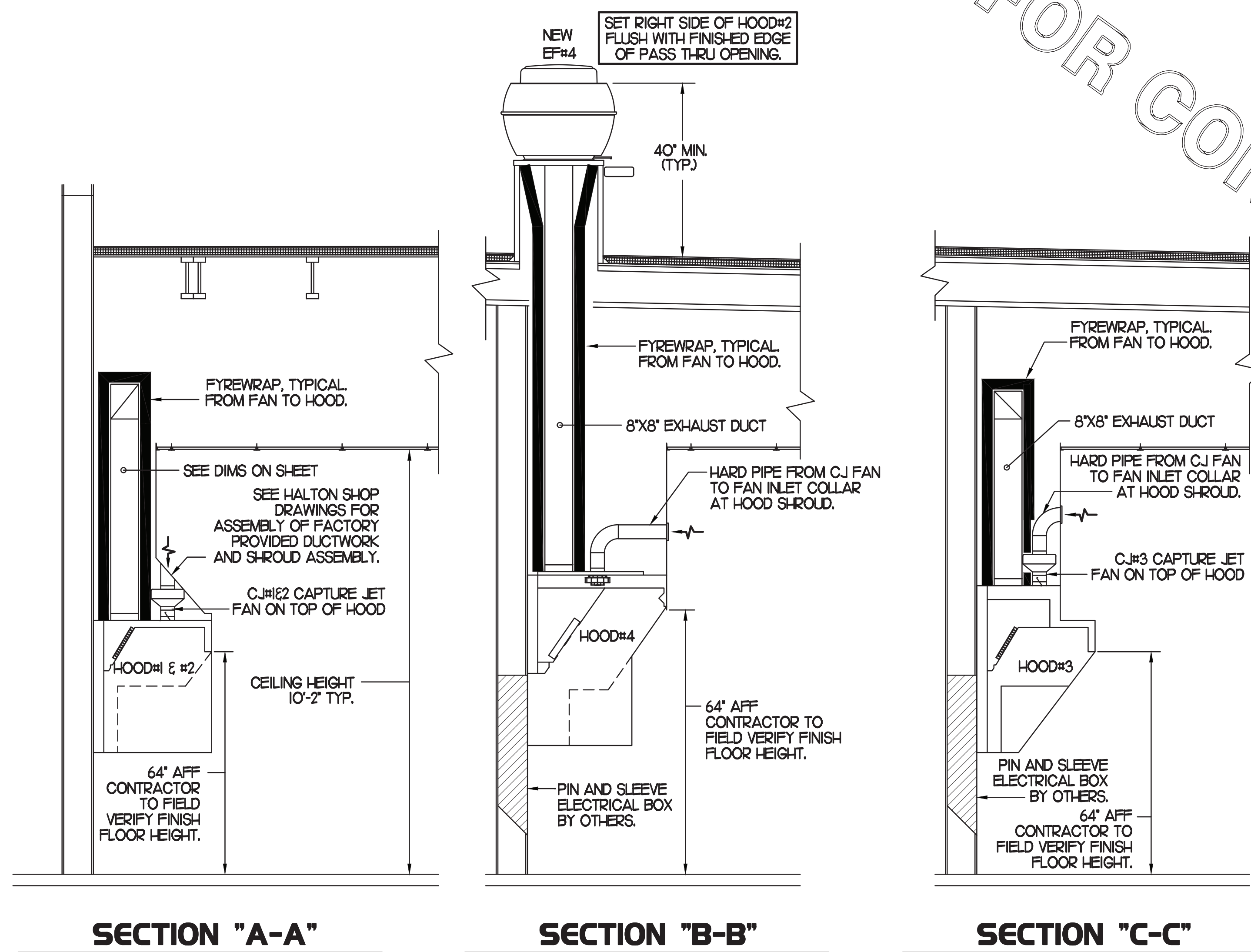
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

HOOD ELEVATION NOTE

HOOD ELEVATIONS ON THIS SHEET ONLY SERVE ILLUSTRATIVE PURPOSES. SEE DETAILS ON HALTON SHOP DRAWINGS ON SHEET M4.1 FOR DETAILS ON STANDOFFS, CLEARANCES, AND HOOD CONSTRUCTION.

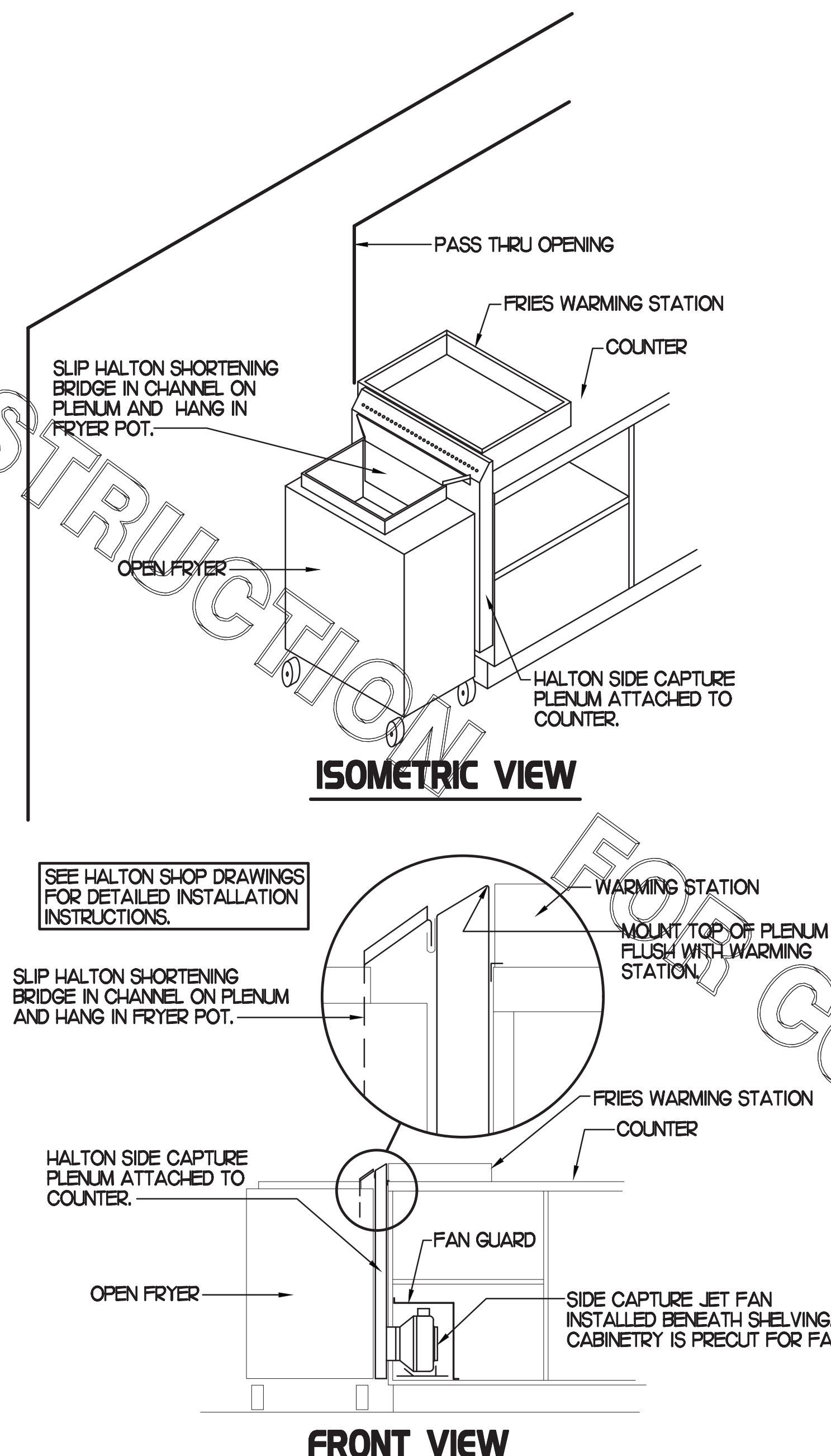
NOTE

ALL NEW HOODS SHALL BE RATED WITH ONE INCH THICK LAYER OF FACTORY INSTALLED INSULATION TO MEET "ZERO INCH CLEARANCE" TO COMBUSTIBLE MATERIALS. HOOD SHALL BE CERTIFIED BY ETL SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2, AND NSF LISTED.



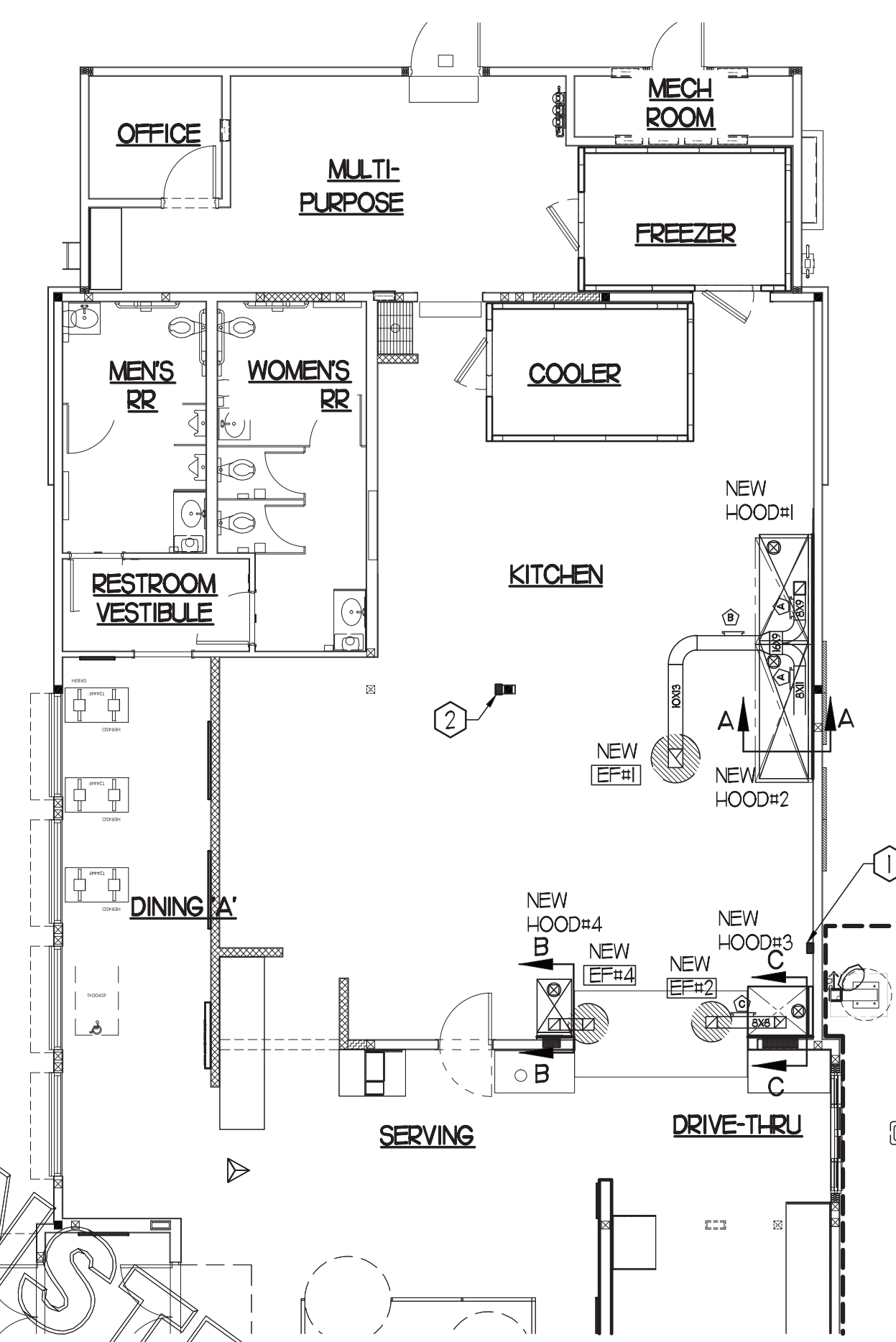
3 HOOD ELEVATIONS

SCALE: NONE



2 HALTON SIDE CAPTURE JET PLENUM

SCALE: NONE



1 HOOD LAYOUT

- ANSUL PULL STATION SERVING NEW HOOD #1. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/2" HIGH LETTERS INDICATING THE HOODS SERVED.
- ANSUL PULL STATION SERVING NEW HOODS #2 AND #3. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/2" HIGH LETTERS INDICATING THE HOODS SERVED.

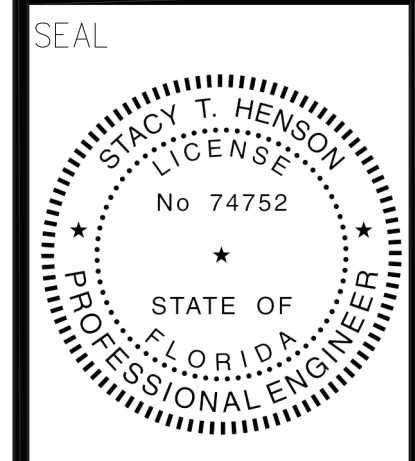
1/8"=1'-0"



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Revisions:
Mark Date By

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SHEET TITLE
HOOD DETAILS
& SCHEDULE

VERSION: 19.045
ISSUE DATE: 10.2019

Job No. : 19.0326
Store : 1657
Date : 01.2020
Drawn By : CH
Checked By : JL

Sheet

M2.1

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	TONNAGE	AREA SERVED	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)				EXISTING MANUFACTURER/ MODEL	NEW MANUFACTURER/ MODEL	ARI RATINGS	PERCENTAGE OF OUTDOOR AIR	ELECTRICAL DATA			REMARKS	APPROX. NET WEIGHT INCLUDING OPTIONS	
			TOTAL	SENS	INPUT	OUTPUT	STAGES	SUPPLY	OA	HP					ESP	VOLTS/PHASE	MCA			MOCP
NEW ACH	25.0	KITCHEN	294.5	226.8	480.0	384.0	2	8,750	1850	10	1.0	L6C180H	LENNOX/LG-H30054E	10.5 EER/10.9 EER	20.0%	208/3/60	142	150	13,45,7,8,9,10,11,21,24	297 LBS
EXISTING AC-2	8.5	DINING A	-	-	-	-	-	3,150	600	-	-	L6A102H	-	-	19.0%	-	-	-	16	-
EXISTING AC-3	10.0	DINING B	-	-	-	-	-	4,000	800	-	-	L6A102H	-	-	20.0%	-	-	-	16	-
EXISTING AC-4	7.5	DINING B	-	-	-	-	-	2,750	500	-	-	L6A090H	-	-	18.0%	-	-	-	16	-
EXISTING AC-5	5.0	PLAYGROUND	-	-	-	-	-	2,000	300	-	-	L6A060H	-	-	15.0%	-	-	-	16	-
NEW AC-6	3.0	MULTI-PURPOSE	35.8	27.6	65.0	52.0	1	1,100	200	.5	.65	-	LENNOX/LG-H3644E	12.7 EER/18.0 SEER	18.0%	208/3/60	23	30	2,3,4,6,7,8,9,10,11,21,23,4,5	796 LBS

ALL NEW ROOFTOP UNITS SHALL INCLUDE A HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.

1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
2. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
3. PROVIDE NEW 14" HIGH ROOF CURB.
4. SEE DETAIL M42 FOR SETTINGS OF PROXY M3 AND M-8 IMC BOARD CONTROL PARAMETERS BY MC.
5. PROVIDE FACTORY INSTALLED AND UNIT POWERED 15V GFI SERVICE OUTLET.
6. PROVIDE FACTORY INSTALLED 15V GFI SERVICE OUTLET.
7. PROVIDE FACTORY INSTALLED RETURN AND SUPPLY SIDE SMOKE DETECTOR.
8. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
9. PROVIDE 2" MERV 8 THROW AWAY FILTERS.
10. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
11. ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
12. PROVIDE FACTORY COOL HAIL GUARD, FIELD INSTALLED.
13. PROVIDE UNIT WITH MS4V BLOWER.
14. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF CA AND AZ EXCLUDED).
15. PROVIDE FACTORY INSTALLED BELT TENSIONER.
16. EXISTING UNIT TO REMAIN.

- CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.
- TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER AND TO ENGINEER OF RECORD.
- NEW HVAC EQUIPMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING CLEARANCES. E SHALL MEET ALL LOCAL AND STATE CODE REQUIREMENTS. INSTRUCTIONS SHALL BE ON SITE AND AVAILABLE FOR ALL INSPECTIONS, SERVICE, REPAIR, OR REPLACEMENT.
- NEW ROOFTOP UNITS ONLY, MECHANICAL CONTRACTOR SHALL RELOCATE THE FACTORY INSTALLED SUPPLY SIDE SMOKE DETECTOR FROM THE BLOWER SECTION TO THE SUPPLY DUCT DROP ABOVE THE FIRST 90 DEGREE DUCT FITTING.
- NEW ROOFTOP UNITS ONLY, THE MECHANICAL CONTRACTOR SHALL SPLICE NEW PLENUM RATED CABLE BETWEEN THE FACTORY SMOKE DETECTOR AND THE FACTORY JACK PLUG. THE NEW WIRING SHALL BE ROUTED THRU THE ROOFTOP UNIT BASEPAN RACEWAY. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS.

EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	TP SPEED (FPM)	IP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
NEW EF-1	1912	.65	964	4,164	1/2	NEW HOOD#2	165V3B	LOREN COOK	12,3,4,5,6
NEW EF-2	701	.75	1,238	4,861	1/3	NEW HOOD#3	150V4B	LOREN COOK	12,3,4,5,6
EXISTING EF-3	500	-	-	-	-	RESTROOMS	-	-	7
NEW EF-4	390	.75	1,937	5,071	1/4	NEW HOOD#4	100V3B	LOREN COOK	12,3,4,5,6

- NOTES
- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
 - GREASE EXHAUST FANS TO BE UL 762 LISTED.
 - CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRON COMPANY FOR THE FAN/CLUB PACKAGE. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CLUB PACKAGE DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

- REMARKS
1. PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
 2. PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
 3. PROVIDE FACTORY INSTALLED HINGED BASE KIT.
 4. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
 5. PROVIDE FACTORY INSTALLED HELICAL SPRING AUTOMATIC BELT TENSIONER.
 6. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
 7. EXISTING EXHAUST FAN TO REMAIN.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING AREA KITCHEN	SEE PLAN	24X24	LAY-IN	1,8
C	PRICE MODEL SMOCK STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRYS	14X14	20X20	BEVELLED	1,3,5,7
D	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO SHORT SIDE.	MECHANICAL ROOM	8X6	10X8	SURFACE	1
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO LONG SIDE.	PLAYAREA	16X10	18X12	SURFACE	1
F	PRICE MODEL 80 EGGRORATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE. FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/OFFICE KITCHEN	SEE PLAN	24X24	LAY-IN	1,8
G	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	MECHANICAL ROOM	8X6	10X8	SURFACE	1
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	12	24X24	LAY-IN	1,6,8
J	PRICE MODEL SMOCK STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	16X16	BEVELLED	1,2,3,5,7
K	PRICE MODEL APDC ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRYS	14X14	17X17	SURFACE	1,4,5,7

- NOTES
- MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

- REMARKS
1. STANDARD OFF WHITE FINISH.
 2. PROVIDE MODEL VCS3 NECK DAMPER.
 3. SEE DRAWING M1 FOR THROW.
 4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS.
 5. PROVIDE BACKPAN MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
 6. PROVIDE VCR7 NECK DAMPER, ADJUSTABLE THRU DIFFUSER FACE.
 7. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1M3-1.
 8. FACTORY INSULATED R-6 BACKPAN.

OUTDOOR AIR CALCULATION

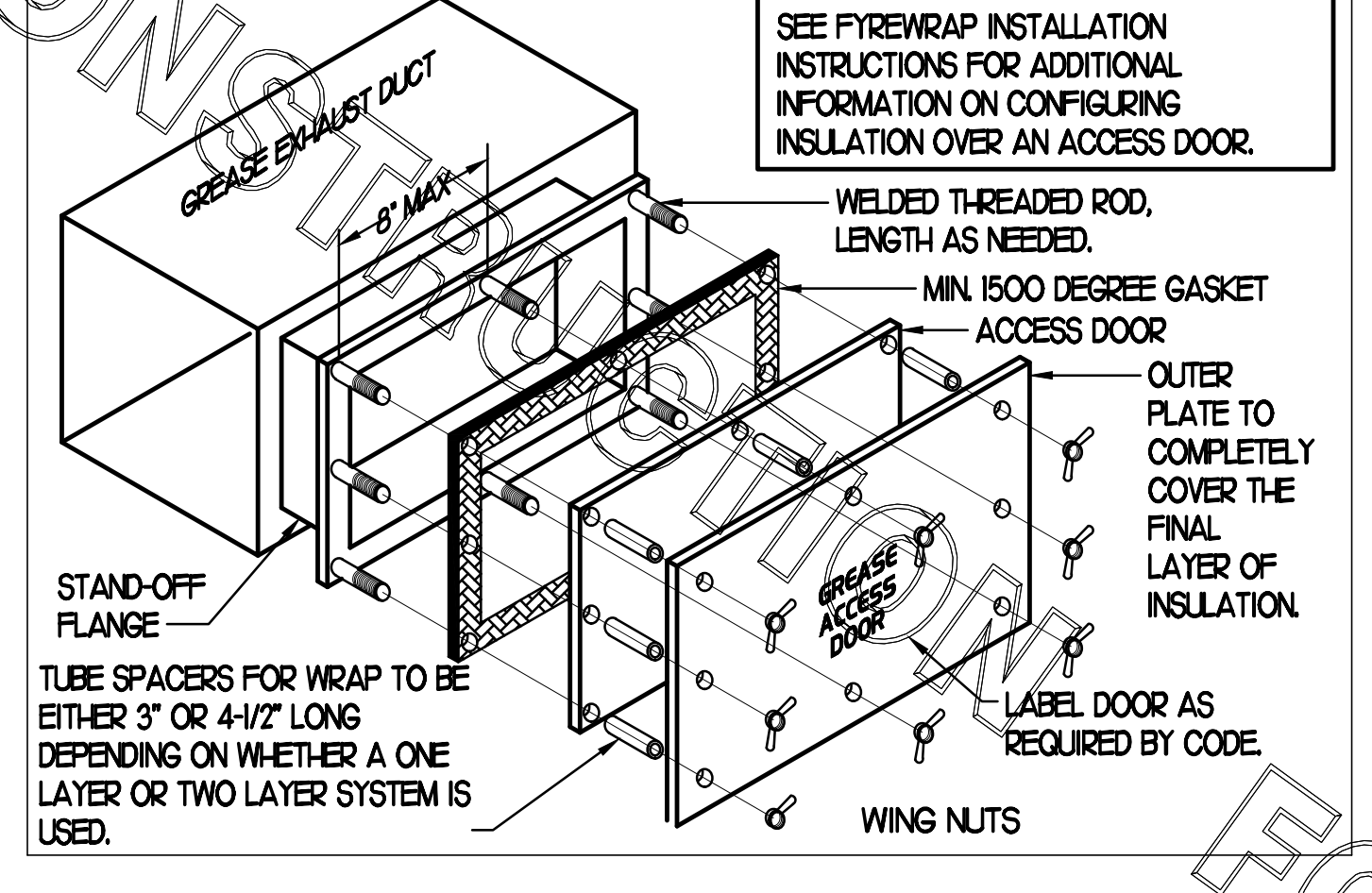
ROOM NUMBER & NAME	AREA SQ. FT.	NO. OF PEOPLE	REQD OA CFM/PERSON	REQD OA CFM/SQ FT	TOTAL OSA	REQD EXHAUST AIR PER FIXTURE	REQD OSA AC-1	REQD OSA AC-2	REQD OSA AC-3	REQD OSA AC-4	REQD OSA AC-5	REQD OSA AC-6
KITCHEN	917	8	7.50	0.18	225.1		225.1					
RR VESTIBULE	58	0	5.00	0.06	3.5			3.5				
MENS RR	121	0	0.00	0.00	0.0	50/70						
WOMENS RR	162	0	0.00	0.00	0.0	50/70						
DINING A	505	48	7.50	0.18	450.9			450.9				
DRIVE THRU	291	2	7.50	0.18	67.4				67.4			
SERVING AREA	203	4	7.50	0.18	66.5				66.50			
WAITING AREA	263	0	5.00	0.06	15.8				15.8			
S DINING B	521	40	7.50	0.18	393.8				393.8			
ENTRY 'B'	50	0	5.00	0.06	3.0				3.0			
S. DINING B	530	52	7.50	0.18	485.4					485.0		
ENTRY 'A'	70	0	5.00	0.06	4.2					4.2		
PLAYGROUND	301	12	7.50	0.18	144.2						144.2	
OFFICE	55	1	5.00	0.06	8.3							8.3
MULTI-PURPOSE	290	0	5.00	0.06	17.4							17.4
MECHANICAL ROOM	44	0	5.00	0.06	2.6							2.6
TOTALS												
						100/140	225.10	454.40	546.50	489.20	144.20	25.70
							1,850	600	800	500	300	200

OUTSIDE AIR BASED ON THE 2017 FLORIDA MECHANICAL CODE & PER ASHRAE 62.1-2007 MINIMUM VENTILATION RATES.

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	6.5H X 12W	8.5H X 14W	1
B	10.5H X 14W	12.5H X 16W	1
C	5.5H X 14W	7.5H X 16W	1

ACCESS DOORS SHALL BE UL 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRETON INDUSTRIES, INC (800) 382-2491.



SEE FIREWRAP INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION ON CONFIGURING INSULATION OVER AN ACCESS DOOR.

DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

MARK	COOLING CAPACITY (MBH)		EFFICIENCIES SEER	FAN SECTION (CFM)	ELECTRICAL DATA			R-410A MODEL	MFR	WEIGHT		
	MIN	MAX			CIRCUIT AMPACITY	MOCP	VOLTAGE			AHU	CJ	
AHU/CUM (NEW)	116	36.0	16.2	705-920	28	40	208/1/60	FKA-A36KA7	FUZ-HA36HA45	MITSUBISHI	46 LBS	265 LBS

NOTES

- MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100, FOR PRICING AND AVAILABILITY.

REMARKS

1. ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT.
2. MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS.
3. PROVIDE ENGRAVED PLASTIC LABEL AT AHU AND CUM WITH F HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET.
4. PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING.
5. PROVIDE WITH FACTORY WIRED 7-DAY PROGRAMMABLE WALL THERMOSTAT, MODEL CZ-RD515L.

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1765	2670 FPM	10 KW	3/4	DRIVE THRU	CHA-148E	POWERED-AIRE	1,2,3,5

NOTES

- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRON COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

REMARKS

1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE W ALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
5. PROVIDE WITH A DIVERTER BOX.

FLEX DUCT SIZE

0	-	80 CFM	-	6" DIA.
81	-	170 CFM	-	8" DIA.
171	-	300 CFM	-	10" DIA.
301	-	510 CFM	-	12" DIA.
511	-	750 CFM	-	14" DIA.
751	-	1100 CFM	-	16" DIA.
1101	-	1450 CFM	-	18" DIA.
1451	-	1900 CFM	-	20" DIA.

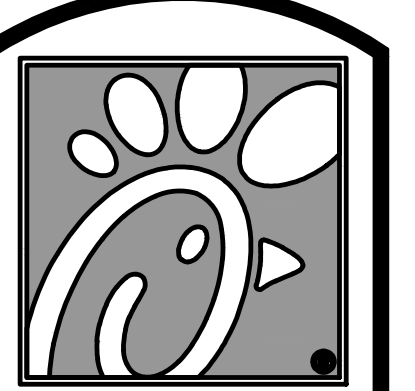
BASED ON WIRE HELIX FLEXIBLE DUCT-TYPE FLEX-MASTER
UL LISTING
UL81 / ETL CLASS I AIR DUCT STANDARD CODE
NFPA 90A AND 90B, BOCA, SEBC, ILD/IFA, MIN PROPERTY STD.
FLAME SPREAD: LESS THAN 25
SMOKE DEVELOPE: LESS THAN 50
MIN R&O FOR ATTIC/UNCONDITION SPACE
MIN R&O FOR RETURN CONDITIONED SPACE
MANUFACTURER IS TO BE USED AS A BASIS FOR DESIGN. EQUAL IS APPROVED.

KITCHEN PRESSURIZATION

RETURN AIR FROM SIDE DINING BACK TO KITCHEN	+700
NEW AC-1 OA (25 TON)-21% OA	+1850
NEW EF-1 KITCHEN HOOD #1	-832
NEW EF-1 KITCHEN HOOD #2	-1080
NEW EF-2 KITCHEN HOOD #3	-701
NEW EF-4 KITCHEN HOOD #4	-390
TOTAL	-453

DINING PRESSURIZATION

EXISTING AC-2 OA (8.5 TON)-19% OA	+600
EXISTING AC-3 OA (10 TON)-20.0% OA	+800
EXISTING AC-4 OA (7.5 TON)-22.0% OA	+500
EXISTING AC-5 OA (5 TON)-15% OA	+300
NEW AC-6 OA (3 TON)-18% OA	+200
EXISTING EF-3 RESTROOM EXHAUST	-500
RETURN AIR FROM SIDE DINING BACK TO KITCHEN	-700
BUILDING POSITIVE PRESSURE TOTAL	+1200
BUILDING POSITIVE PRESSURE	+747



5200 Buffington Rd.
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30349-2998

Revisions:
Mark Date By
9 11/18/21 CH
AIR DIVERTER

UPDATES
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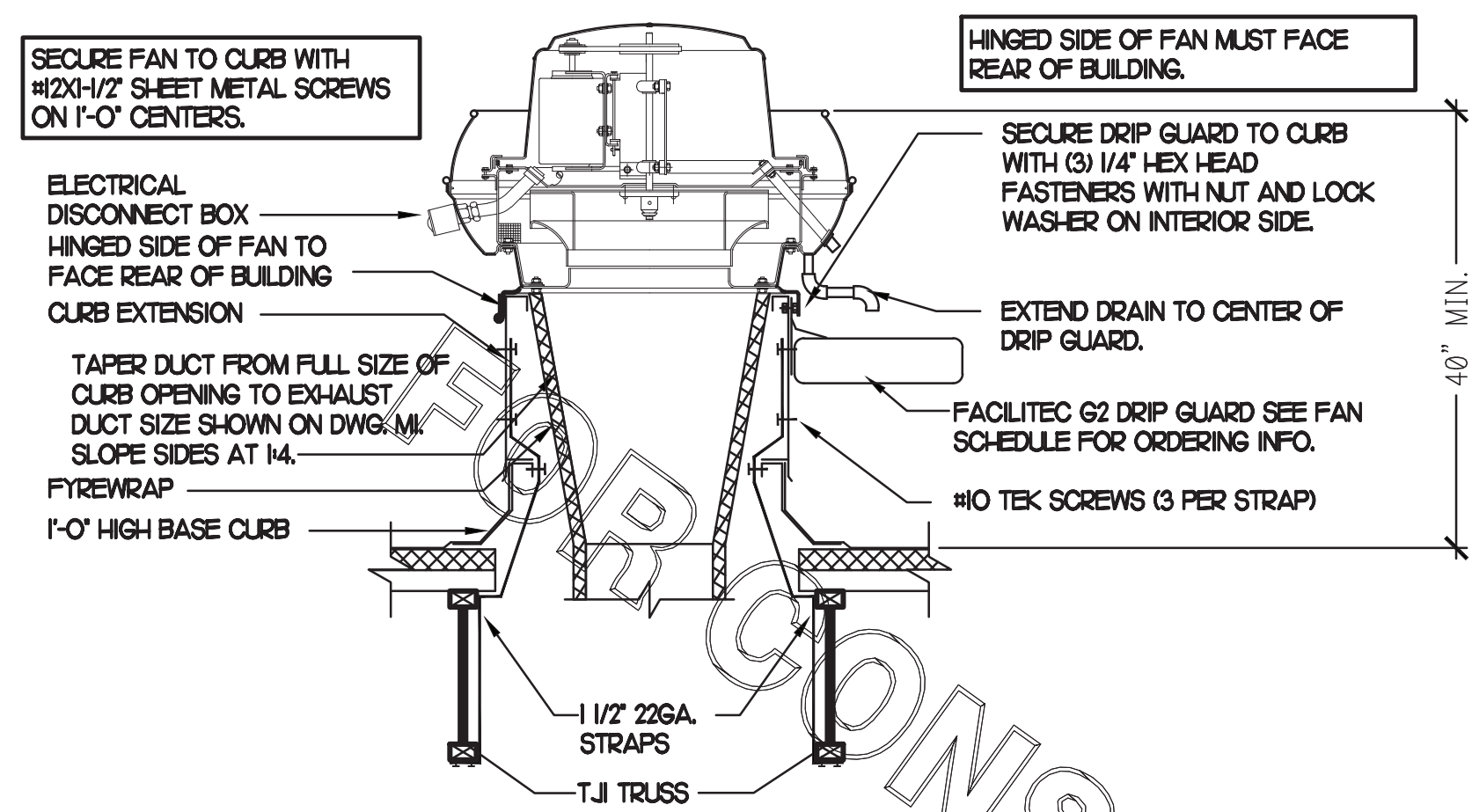
13143 CORTEZ BLVD
BROOKSVILLE, FL
34613

SHEET TITLE
MECHANICAL
SCHEDULES

VERSION: 19.045
ISSUE DATE: 10.2019

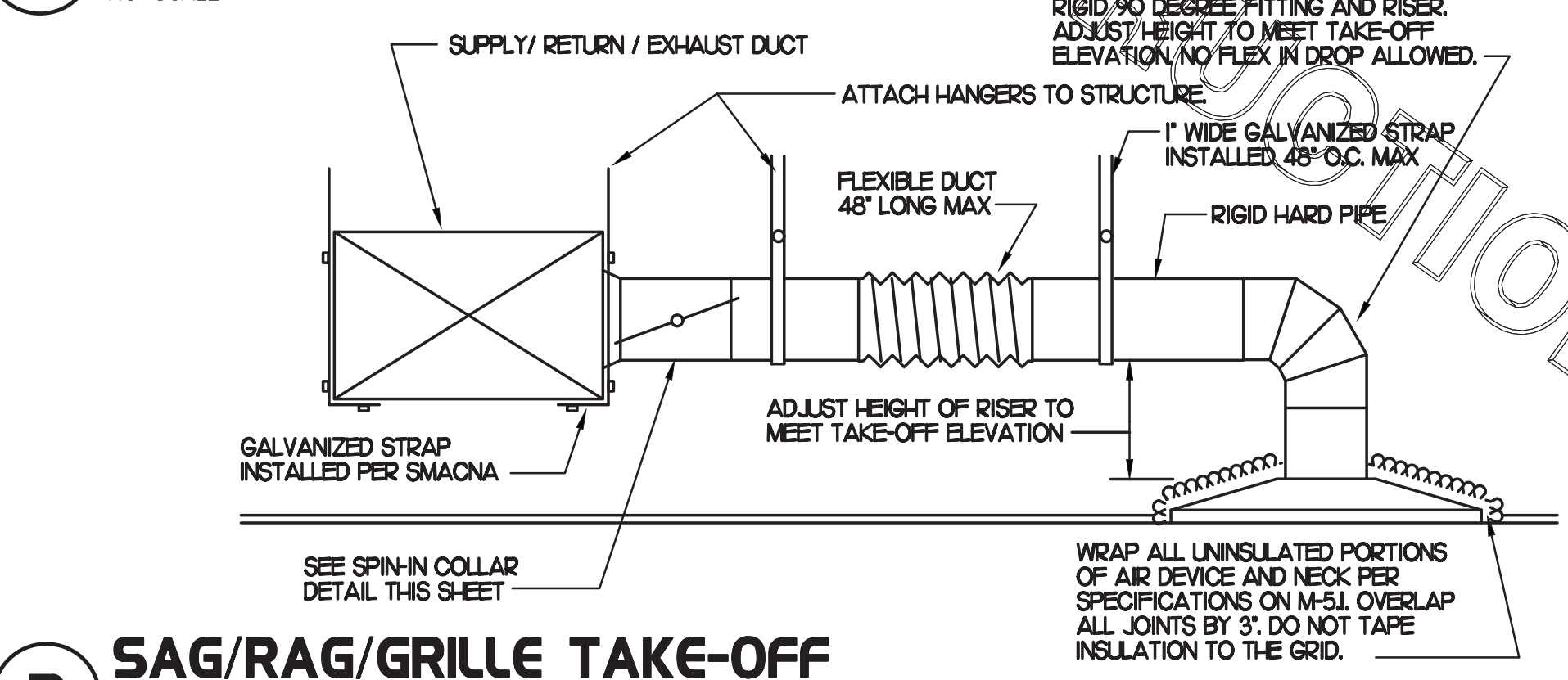
Job No. : 19.0326
Store : 1657
Date : 01.2020
Drawn By : CH
Checked By : JL

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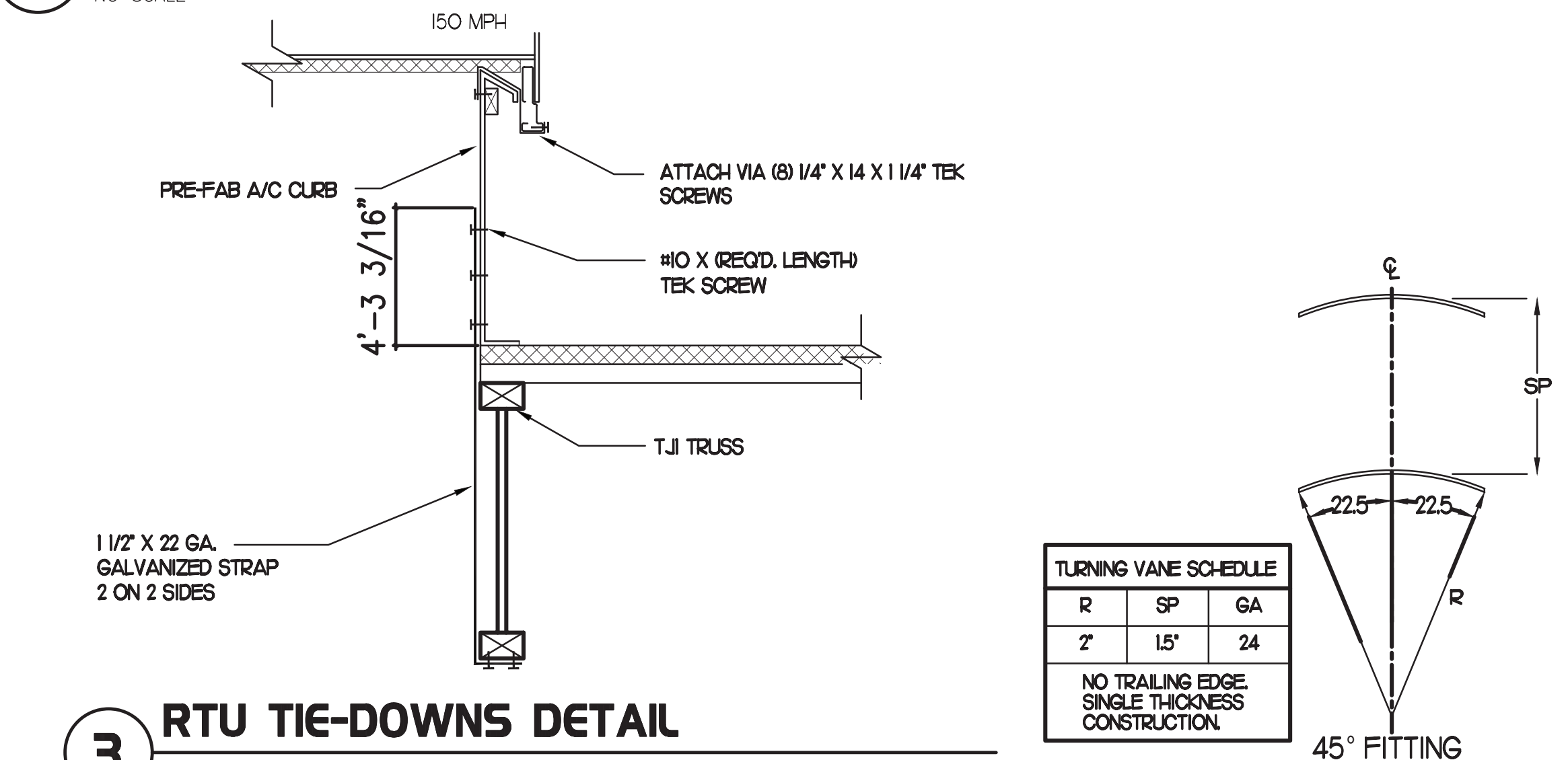
1 KITCHEN HOOD EXHAUST FAN

NO SCALE



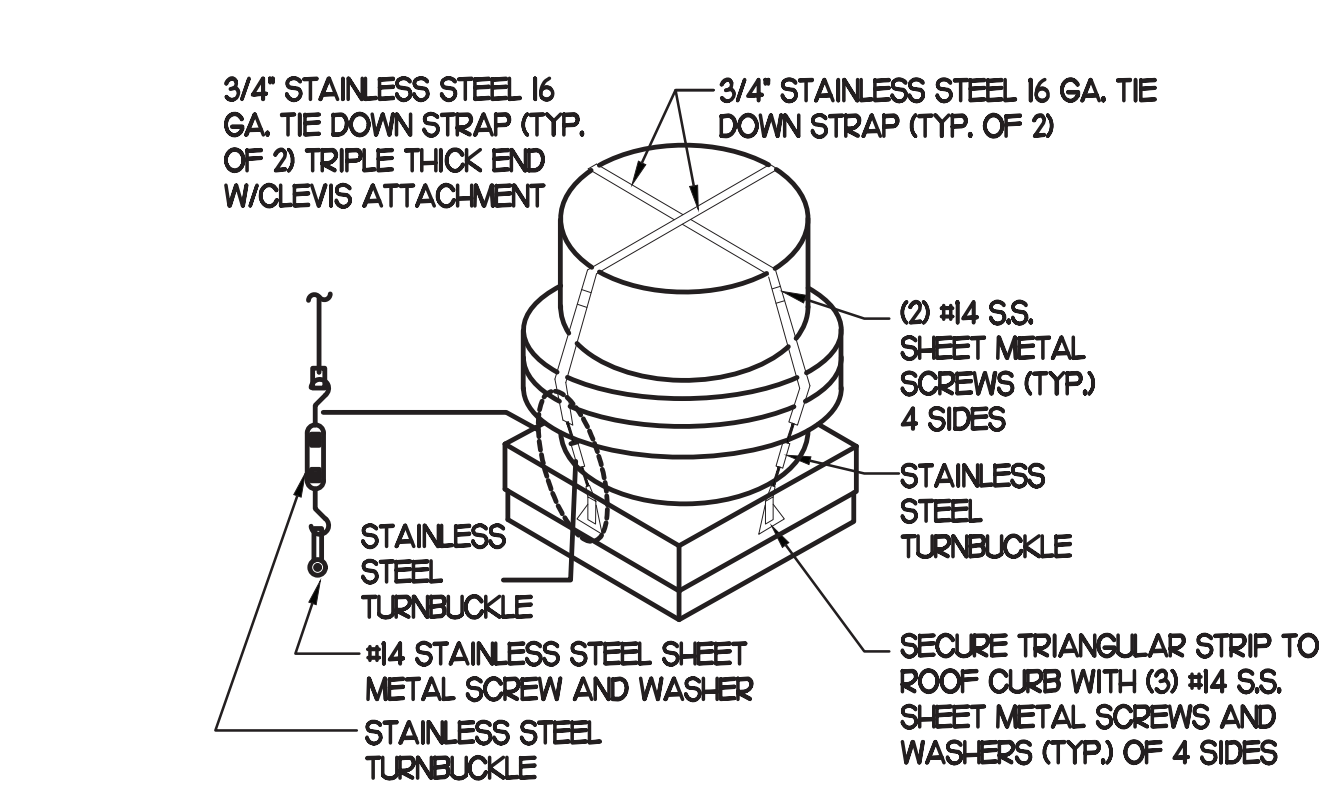
2 SAG/RAG/GRILLE TAKE-OFF

NO SCALE



3 RTU TIE-DOWNS DETAIL

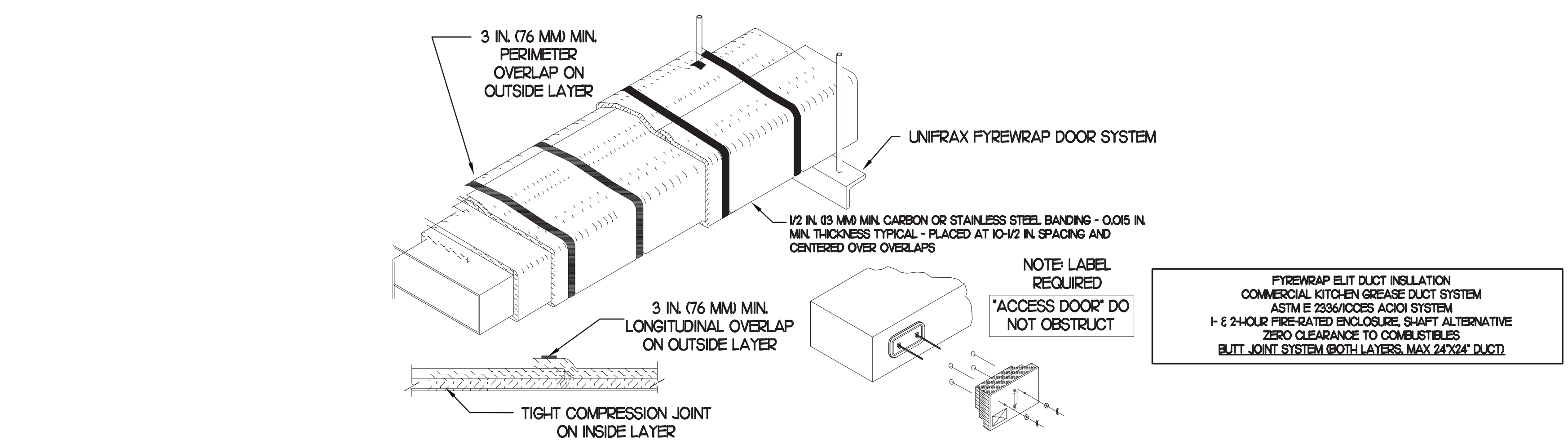
NO SCALE



4 FAN SECURING DETAIL

NO SCALE

NOTE: SIMILAR FOR KITCHEN HOOD EXHAUST AND SUPPLY FANS.



- UNIFRAX FYREWRAP ELITE 1.5 DUCT INSULATION HAS BEEN TESTED IN ACCORDANCE WITH ASTM E 2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
- COMPLIANT TO THE FOLLOWING CODES:

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE	ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
PLUMBING CODE: 2015 INTERNATIONAL PLUMBING CODE	ENERGY CODE: INTERNATIONAL ENERGY CONSERVATION CODE
MECHANICAL CODE: 2015 INTERNATIONAL MECHANICAL CODE	FIRE CODE: 2012 NFPA
FUEL GAS CODE: 2012 INTERNATIONAL FUEL GAS CODE	ACCESSIBILITY CODE: 2015 ANSI CODE
- INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
- GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
- UNIFRAX FYREWRAP ELITE 1.5 ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.
- ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.
- SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- UNIFRAX FYREWRAP ELITE 1.5 DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- UNIFRAX FYREWRAP ELITE 1.5 DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.

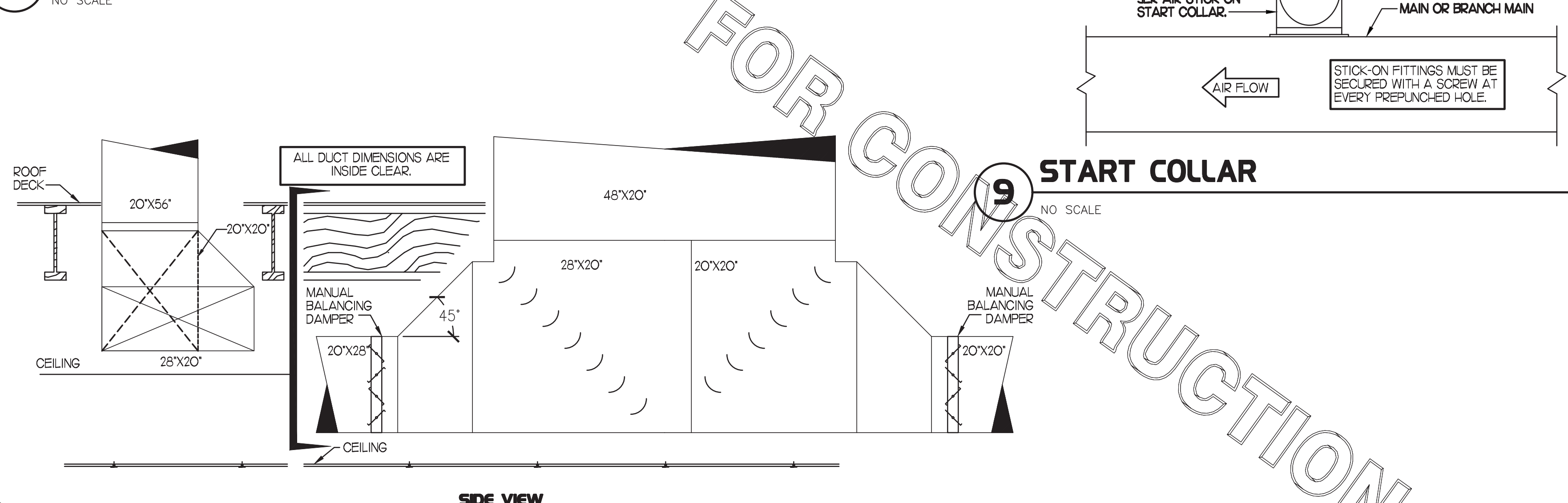
6 GREASE EXHAUST DUCT PROTECTION TO COMBUSTIBLES DETAIL

NO SCALE



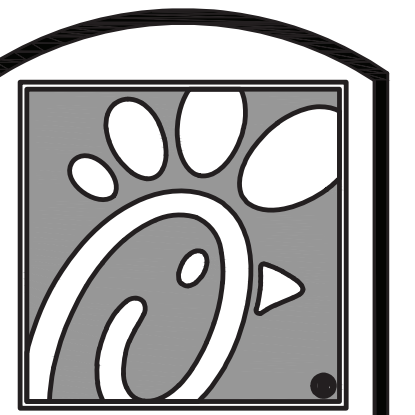
7 DIFFUSER & GRILLE WHEN CEILING IS REPLACED

NO SCALE



8 TEE CONSTRUCTION

NO SCALE

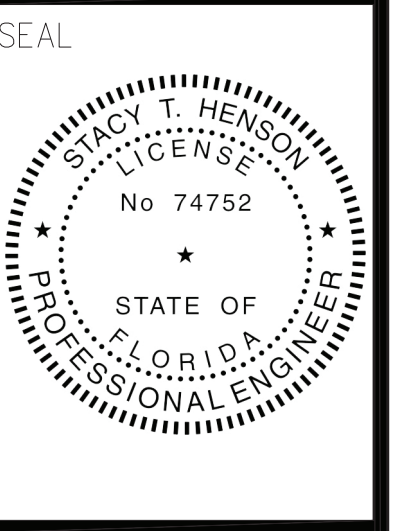


Chick-fil-A

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Revisions:
Mark Date By

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This item has been digitally signed and sealed by Stacy Henson 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.

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SHEET TITLE
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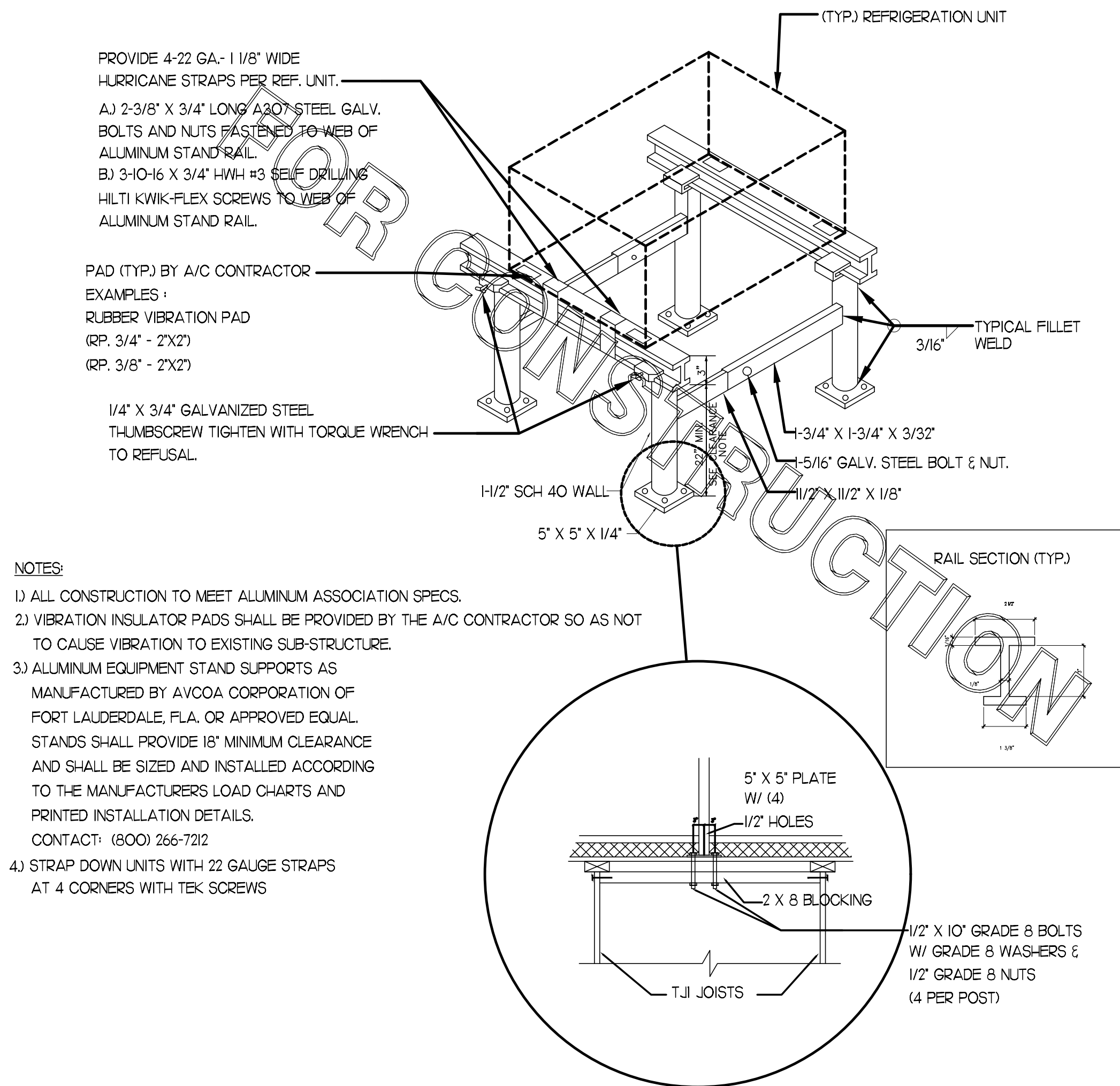
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CLEARANCE NOTE

CONTRACTOR TO VERIFY THICKNESS OF ROOF ASSEMBLY, 18" CLEARANCE REQUIRED FROM BOTTOM OF SUPPORT RACK STRUCTURAL MEMBER TO TOP OF ROOF ASSEMBLY. IF ANY PIECE OF EQUIPMENT MOUNTED ON RACK EXCEEDS 36" IN THE LATERALLY MOUNTED DIMENSION, THE CLEARANCE NEEDS TO BE INCREASED TO 24".



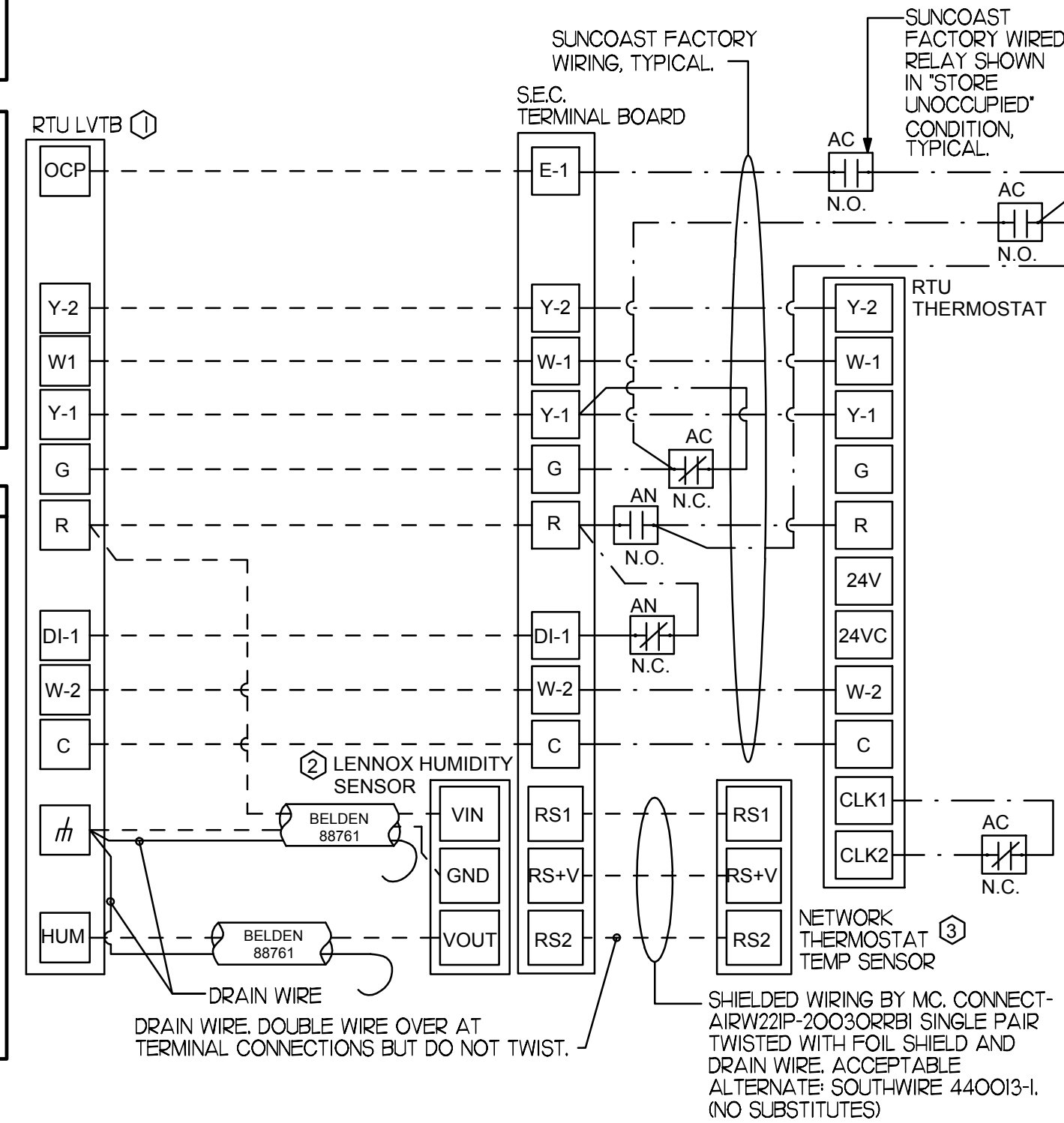
- NOTES:**
- 1) ALL CONSTRUCTION TO MEET ALUMINUM ASSOCIATION SPECS.
 - 2) VIBRATION INSULATOR PADS SHALL BE PROVIDED BY THE A/C CONTRACTOR SO AS NOT TO CAUSE VIBRATION TO EXISTING SUB-STRUCTURE.
 - 3) ALUMINUM EQUIPMENT STAND SUPPORTS AS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLA. OR APPROVED EQUAL STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE AND SHALL BE SIZED AND INSTALLED ACCORDING TO THE MANUFACTURERS LOAD CHARTS AND PRINTED INSTALLATION DETAILS. CONTACT: (800) 266-7212
 - 4) STRAP DOWN UNITS WITH 22 GAUGE STRAPS AT 4 CORNERS WITH TEK SCREWS

- NOTES:**
1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
 2. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
 3. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
 4. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, IE "ACH? HUMIDITY SENSOR" OR "ACH? TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.

- KEYED NOTES:**
- ① LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
 - ② HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR, TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
 - ③ NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR.

LEGEND

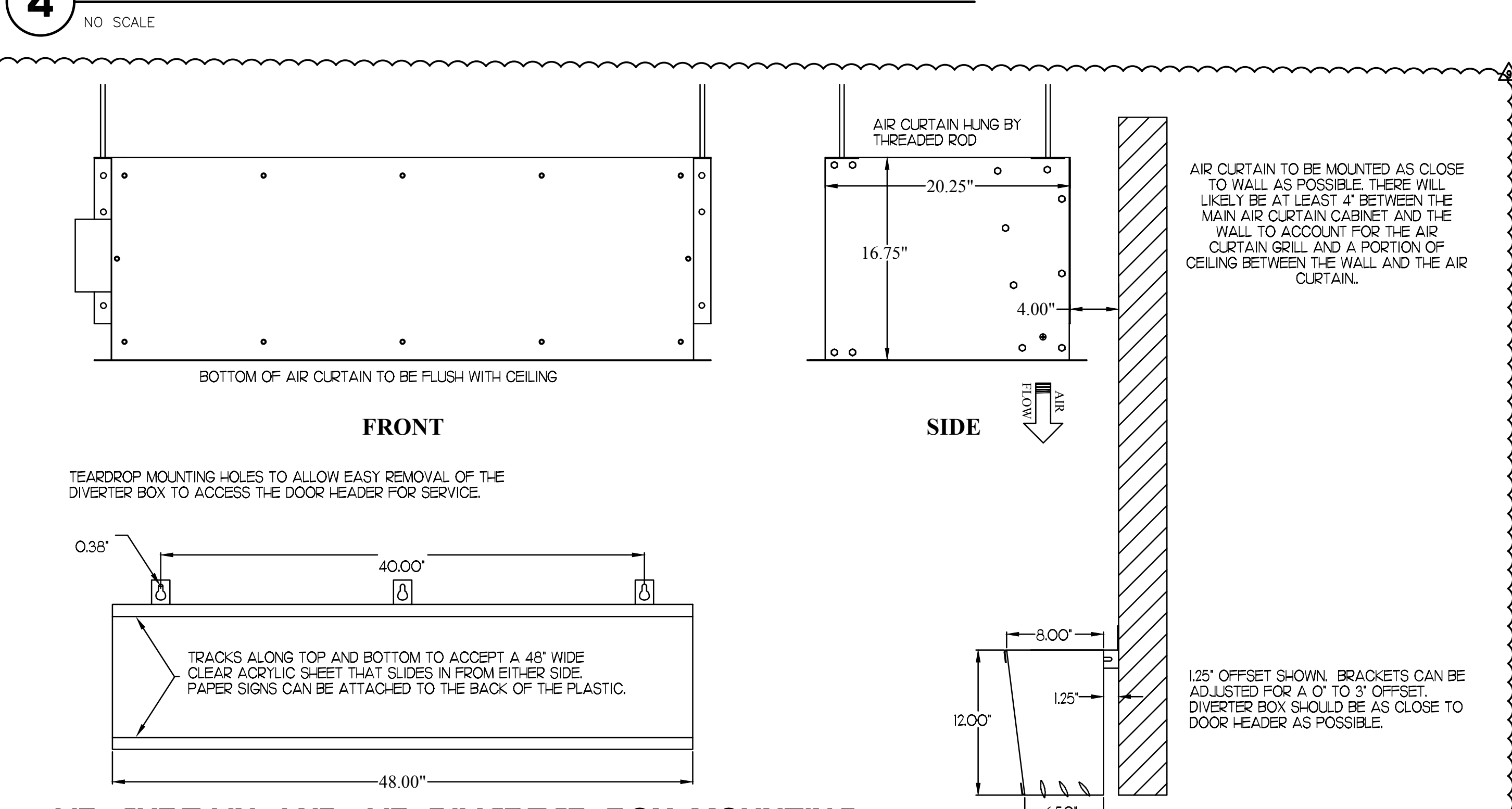
S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
①	KEY NOTE REFERENCE
MC	MECHANICAL CONTRACTOR
AC	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PULLING STORE SWITCH IN 'STORE OCCUPIED' POSITION.
AN	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED WHEN ANSL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
- - -	18 AWG MIN LOW VOLTAGE WIRING BY MC. UNO. USE BELDEN OR SOUTHWIRE SINGLE PAIR TWISTED WITH FOIL SHIELD AND DRAIN WIRE FOR TEMPERATURE SENSORS (NOT HUMIDITY SENSORS).
---	LOW VOLTAGE WIRING BY S.E.C.
---	LINE VOLTAGE BY ELECTRICIAN OR S.E.C.



- LENNOX PRODIGY CONTROLLER SETTINGS:**
1. FOR ALL RTUS EXCEPT AT ACH, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #65 TO ZERO (#68 ON LCH UNITS). THIS WILL CAUSE THE O.A. DAMPER TO OPEN ON 'OCCUPIED' START. AT ACH (LGH TYPE) LEAVE THE SETTING AT THE DEFAULT VALUE SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 60 MINUTES AFTER 'OCCUPIED' START. AT ACH (LCH TYPE) CHANGE THE VALUE TO 5400 SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 90 MINUTES AFTER 'OCCUPIED' START.
 2. AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #105 FOR DEHUMIDIFICATION OPERATION TO A VALUE OF 7.
 3. AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #106 FOR DEHUMIDIFICATION SET POINT TO A VALUE OF 60 (60% RH).
 4. AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #107 FOR DEHUMIDIFICATION MODE DEAD BAND TO VALUE OF 2 (2% RH).
 5. AT MSAV UNITS, SET THE MSAV LOW SPEED SETTING TO THE SAME VALUE AS THE HIGH SPEED SETTING AFTER TAB IS COMPLETE.

- LENNOX FRESH AIR HEATING SETUP WHEN SPECIFIED:**
1. INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
 2. LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
 3. FOR PRODIGY 2.0 FIRST SET FRESH AIR HEATING ENABLE TO 'YES' THRU THE TAB/DAMPER MENU (LEAVE FRESH AIR COOLING AS 'NO'). NEXT, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #156 TO A VALUE OF 66. THIS WILL PREVENT THE SUPPLY AIR TEMPERATURE FROM DROPPING BELOW 66F DEG DURING HEATING MODE WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
 4. CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #157 TO A VALUE OF 14. THIS WILL MAKE THE DEADBAND VALUE EQUAL 14F.
 5. CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #158 TO A VALUE OF 300. THIS WILL MAKE THE CYCLE TIME VALUE EQUAL 3 MINUTES.

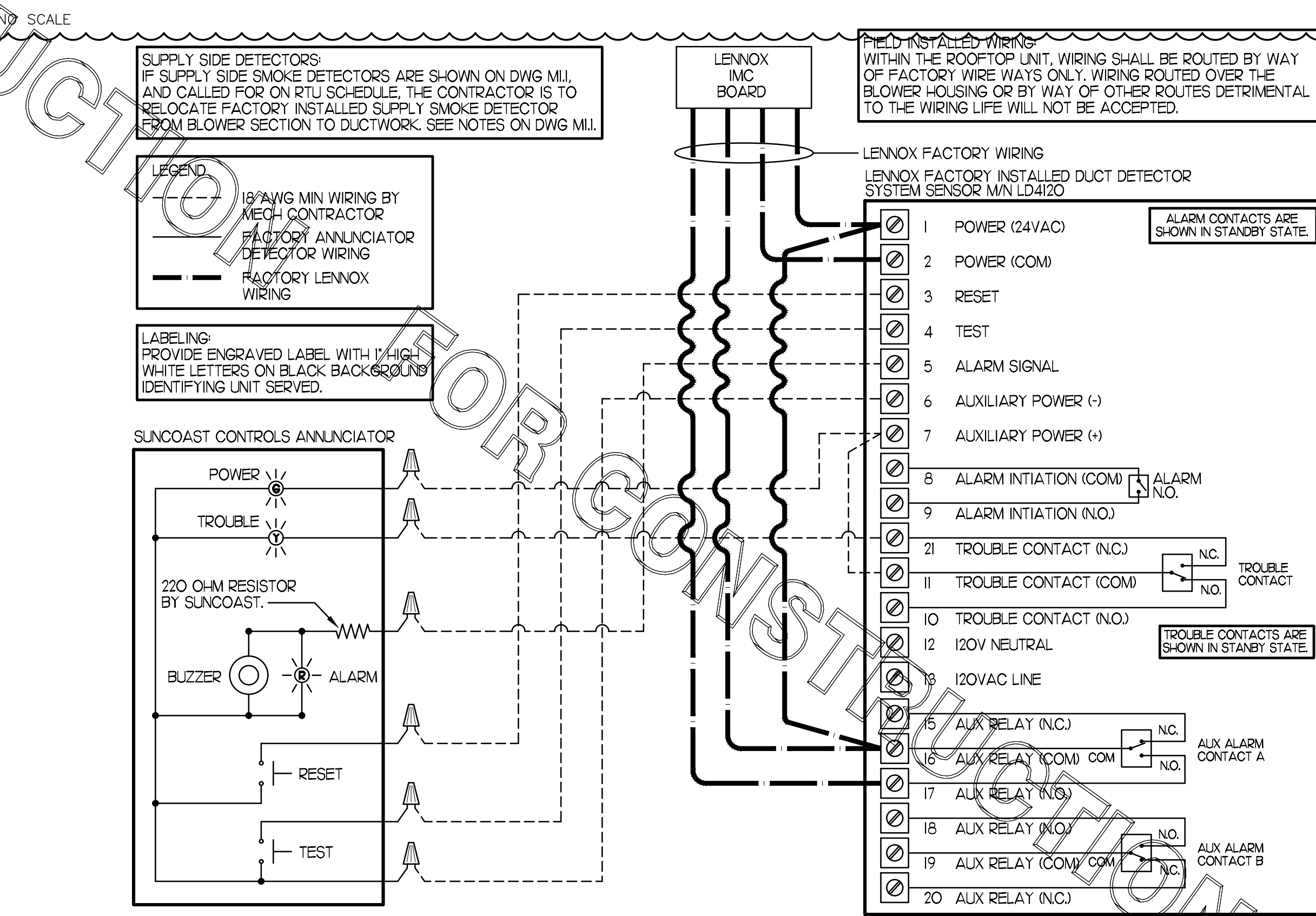
4 REFRIGERATION SYSTEM FRAMING SUPPORT DETAIL



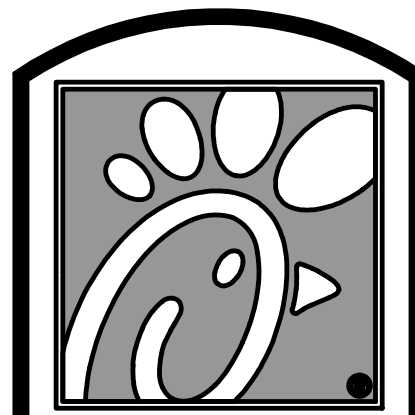
3 AIR CURTAIN AND AIR DIVERTER BOX MOUNTING



2 ROOFTOP UNIT CONTROL WIRING - LENNOX



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX



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Revisions:
Mark Date By
7 11/16/21 CH
RTU WIRING
PROTO UPDATES
9 11/18/21 CH
AIR DIVERTER
UPDATES

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13143 CORTEZ BLVD
BROOKSVILLE, FL
34613

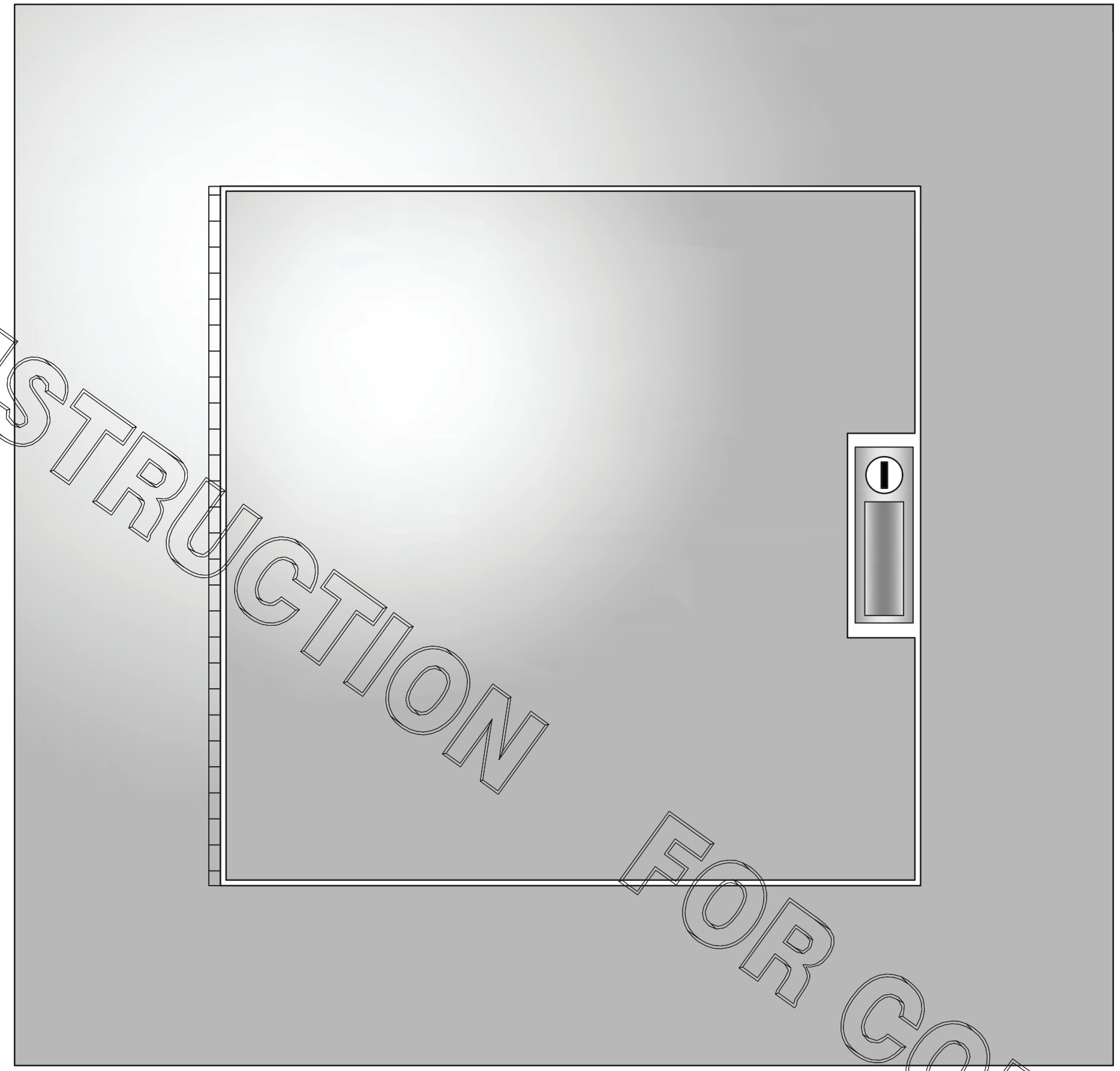
SHEET TITLE
MECHANICAL
DETAILS

VERSION: 19.045
ISSUE DATE: 10.2019

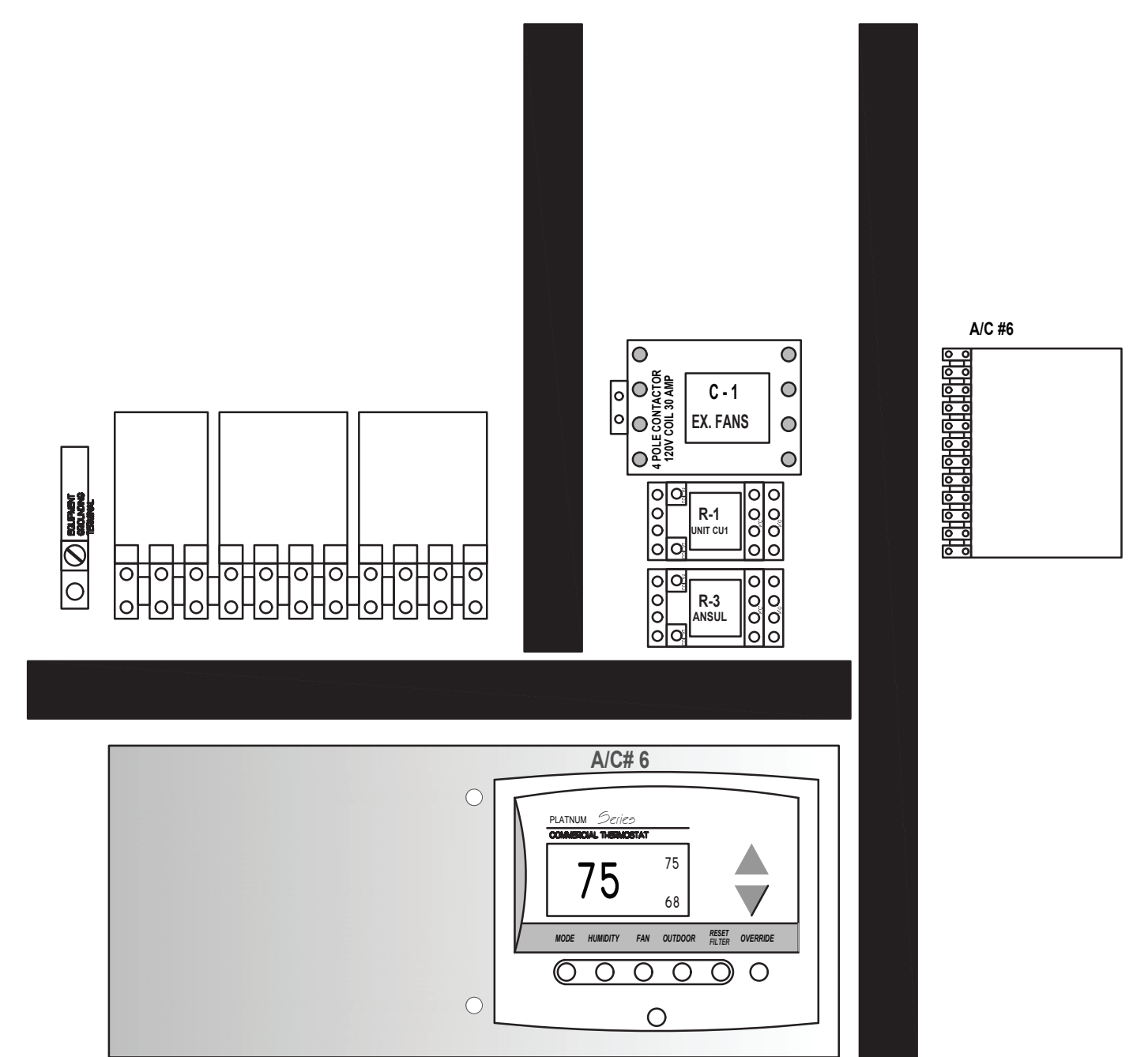
Job No. : 19.0326
Store : 1657
Date : 01.2020
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Checked By : JL

Sheet
M4.2

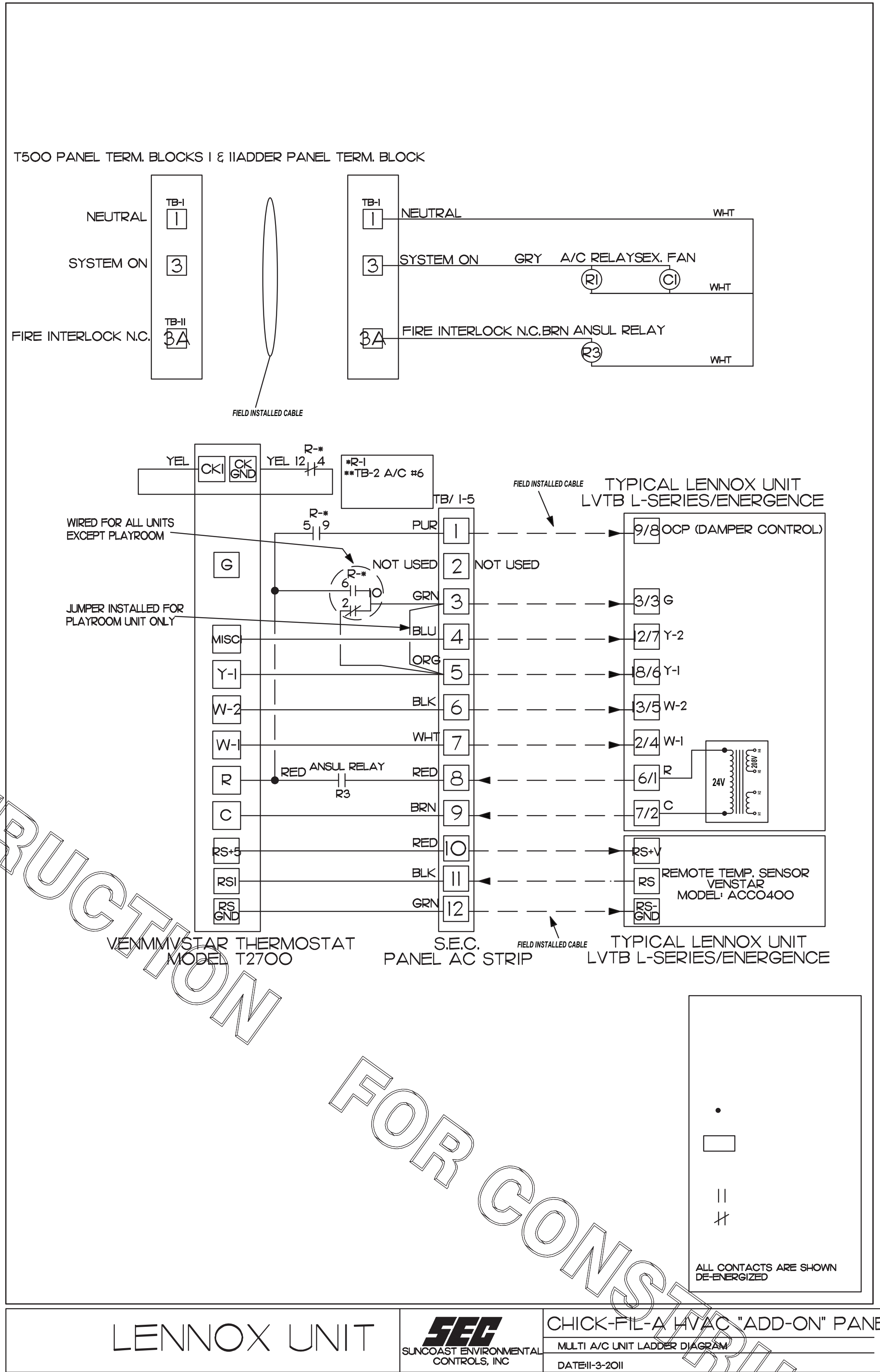
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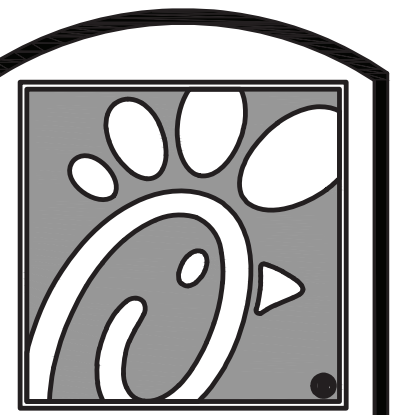
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I SUNCOAST PANEL
NONE



LENNOX UNIT
CHICK-FIL-A HVAC "ADD-ON" PANEL
MULTI A/C UNIT LADDER DIAGRAM
DATE: 11-3-2011

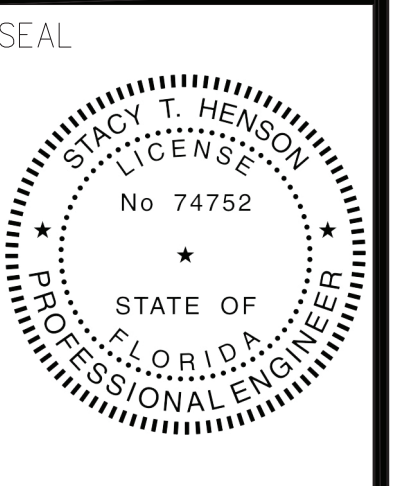


Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△		
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SHEET TITLE
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CONTROLS

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Sheet
M4.3

I. SECTION CIS000 - MECHANICAL SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

- A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.
- B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.
- C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.
- E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT (C15730)

- A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS BY LENNOX AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.
- B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.
- C. COMPRESSORS SHALL BE FULLY HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.
- D. THE UNIT HEAT EXCHANGERS SHALL BE STEEL WITH ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. ALL UNITS SHALL BE CAPABLE OF TWO STAGES OF HEAT. HEAT EXCHANGES SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE ALUMINIZED IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.
- E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735) (SEE DWG M2.1 FOR ADDITIONAL GREASE DUCT SYSTEM REQ.)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.
- D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.
- E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.
- F. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.
- J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.
- K. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.
- L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M4.1.
- M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.
- N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.
- O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
- P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".
- Q. RADIUSSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO; R=W PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- R. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS (C15735)

- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.
- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.
- G. LENNOX UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A VENSTAR T2700 THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT.
- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

PART III - EXECUTION

3.01 SCOPE

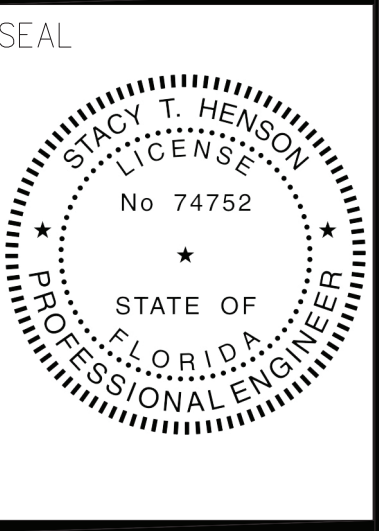
- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- B. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NCI OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.
- C. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.
- D. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- E. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By

Mark	Date	By
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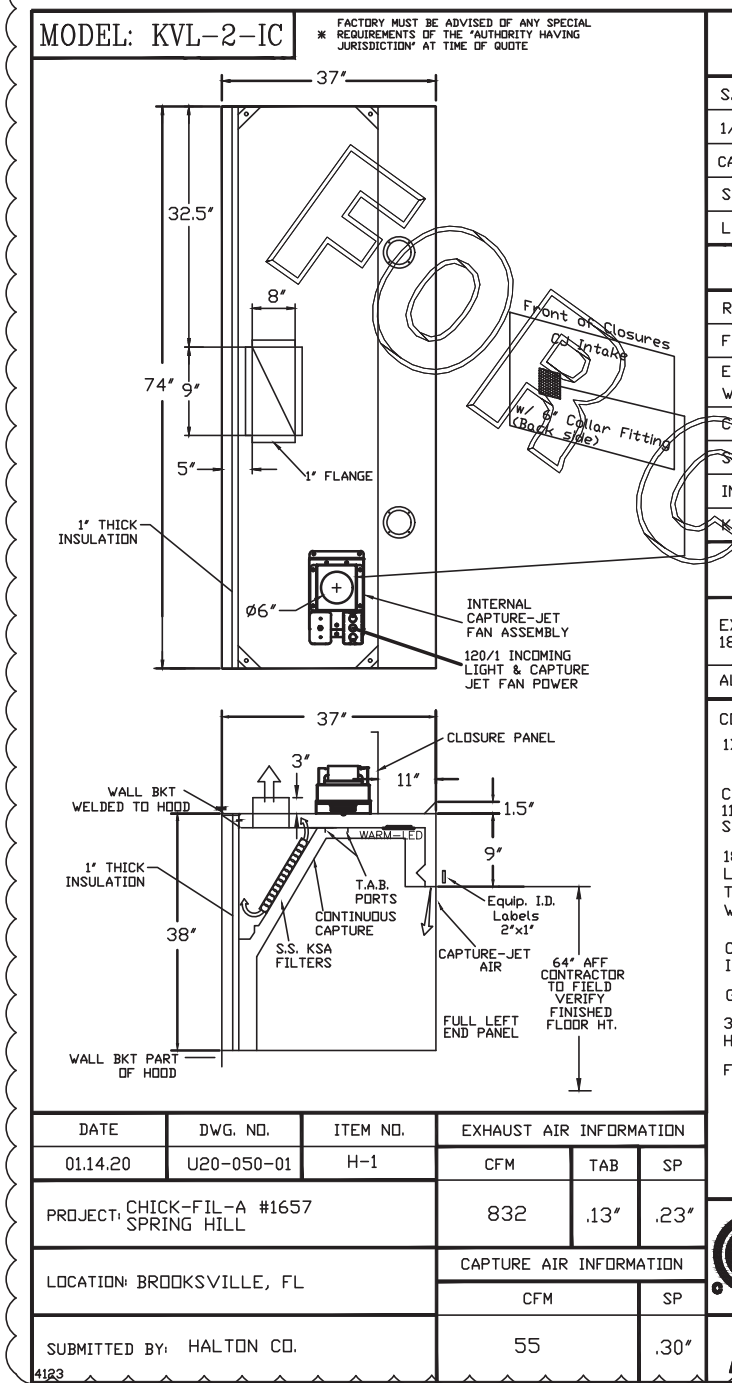
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M5.I

NATIONAL ACCOUNTS

1.	LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.	6.	HALTON HOODS - CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2.	LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.	7.	ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
3.	PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.		
4.	AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.		
5.	SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE		
			ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.



MODEL: KVL-2-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 3
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET 1
- STAND-OFF 2
- L.E.D. LIGHTS 2

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED V/O EXHAUST DAMPER
- CEILING CLOSURE
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

1) CLOSURE HEIGHT = 780 (740 SIDES)
CEILING HEIGHT = ADVISE
CEILING CLOSURE RECESSED 1/2" FROM FRONT TO CREATE SHELVE

18"x18" ACCESS DOOR LEFT SIDE FOR ACCESS TO CAPTURE-JET W/ FRONT C.J. INTAKE

CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT

INTERNAL RIGHT END CUTOUT GREASE CUP ON LEFT SIDE

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

FULL LEFT END PANEL - EQUIPMENT COVERED

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

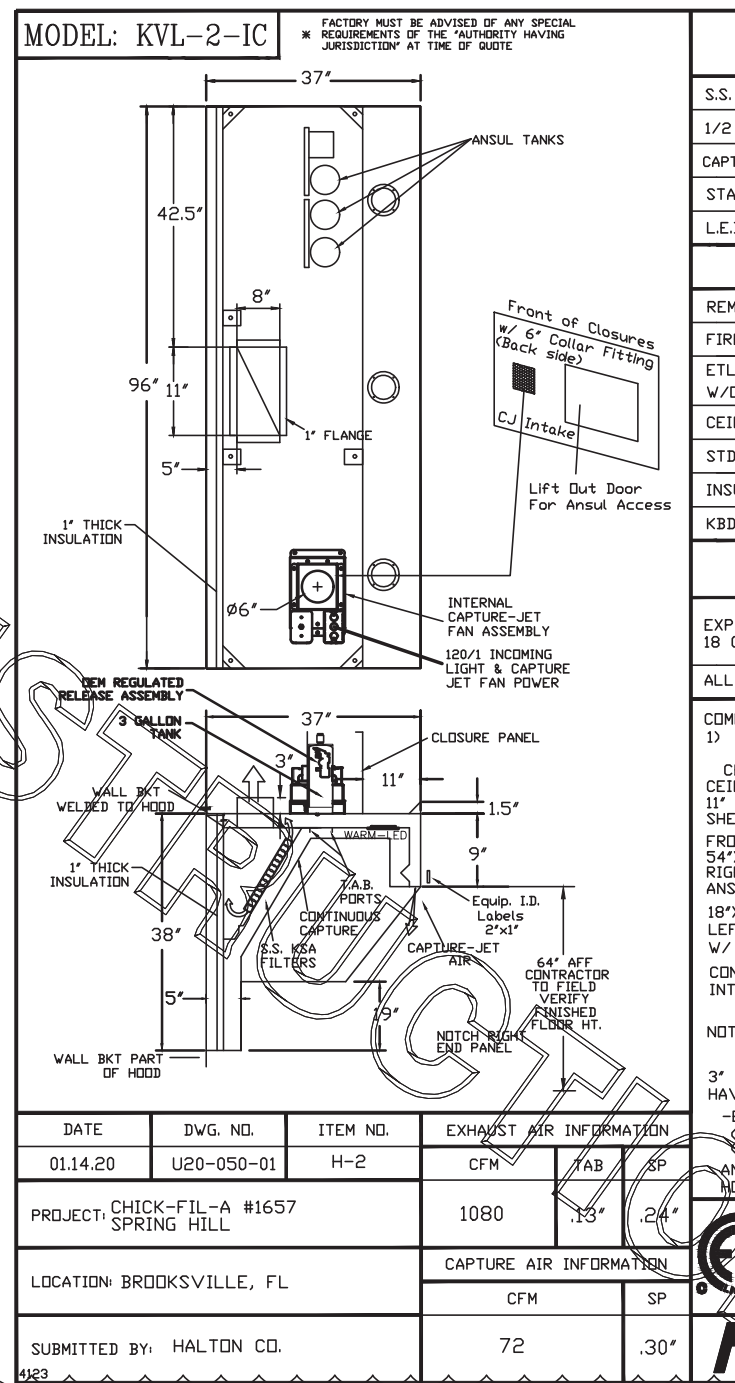
3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

DATE: 01.14.20 DWG. NO.: U20-050-01 ITEM NO.: H-1 EXHAUST AIR INFORMATION: CFM TAB SP HOOD WEIGHT: 462 LBS

PROJECT: CHICK-FIL-A #1657 SPRING HILL

LOCATION: BROOKSVILLE, FL CAPTURE AIR INFORMATION: CFM TAB SP

SUBMITTED BY: HALTON CO. 55 .30'



MODEL: KVL-2-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 4
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET 1
- STAND-OFF 2
- L.E.D. LIGHTS 3

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED V/O EXHAUST DAMPER
- CEILING CLOSURE
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

1) CLOSURE HEIGHT = 780 (740 SIDES)
CEILING HEIGHT = ADVISE
CEILING CLOSURE RECESSED 1/2" FROM FRONT TO CREATE SHELVE

18"x18" ACCESS DOOR LEFT SIDE AT CAPTURE-JET W/ FRONT C.J. INTAKE

CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT

INTERNAL LEFT END CUTOUT GREASE CUP ON RIGHT SIDE

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

FULL RIGHT END PANEL - EQUIPMENT COVERED

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

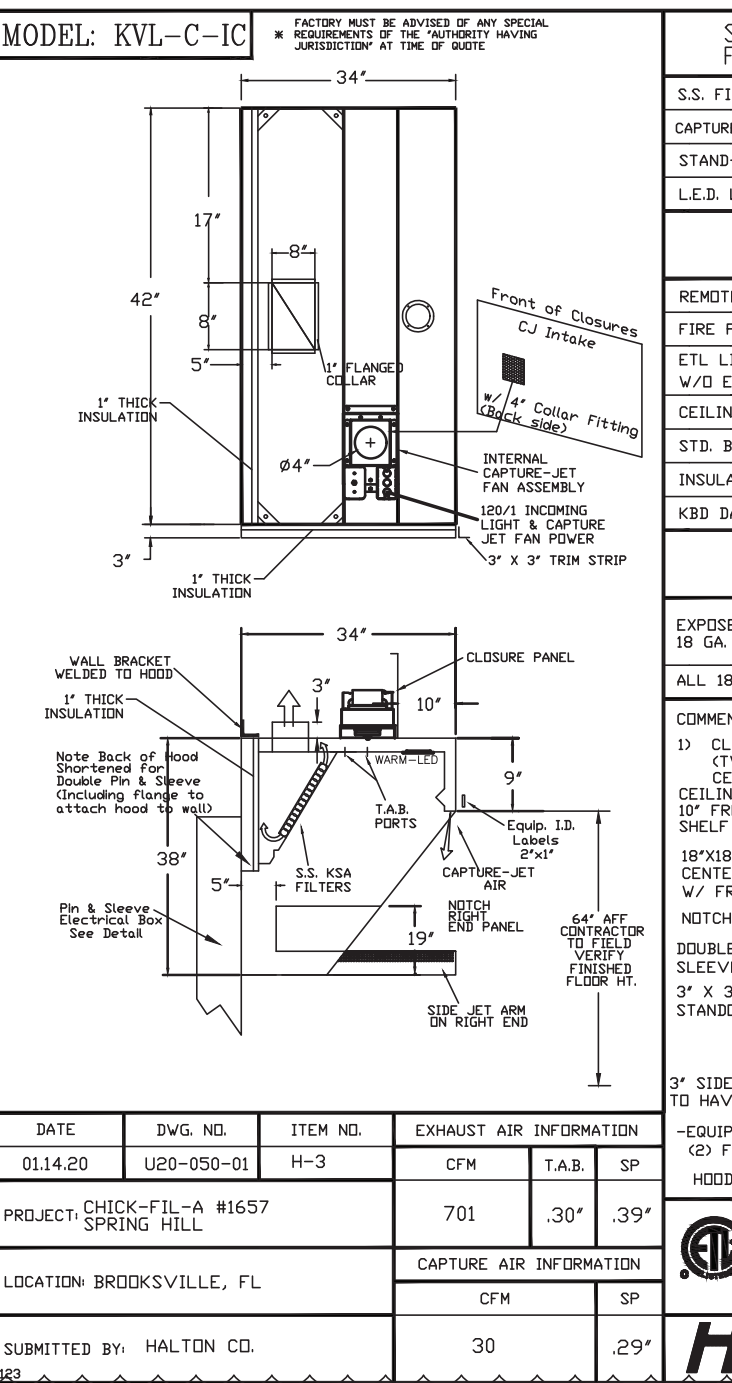
3" REAR STAND-OFF TO HAVE 1" THICK INSULATION

DATE: 01.14.20 DWG. NO.: U20-050-01 ITEM NO.: H-2 EXHAUST AIR INFORMATION: CFM TAB SP HOOD WEIGHT: 439 LBS

PROJECT: CHICK-FIL-A #1657 SPRING HILL

LOCATION: BROOKSVILLE, FL CAPTURE AIR INFORMATION: CFM TAB SP

SUBMITTED BY: HALTON CO. 72 .30'



MODEL: KVL-C-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED V/O EXHAUST DAMPER
- CEILING CLOSURE
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

1) CLOSURE HEIGHT = 780 (740 SIDES)
CEILING HEIGHT = ADVISE
CEILING CLOSURE RECESSED 1/2" FROM FRONT TO CREATE SHELVE

18"x18" ACCESS DOOR LEFT SIDE AT CAPTURE-JET W/ FRONT C.J. INTAKE

NOTCHED RIGHT END PANEL DOUBLE RECEPTACLE PIN & SLEEVE

3" X 3" TRIM STRIP FOR STAND-OFF ON LEFT END

3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED

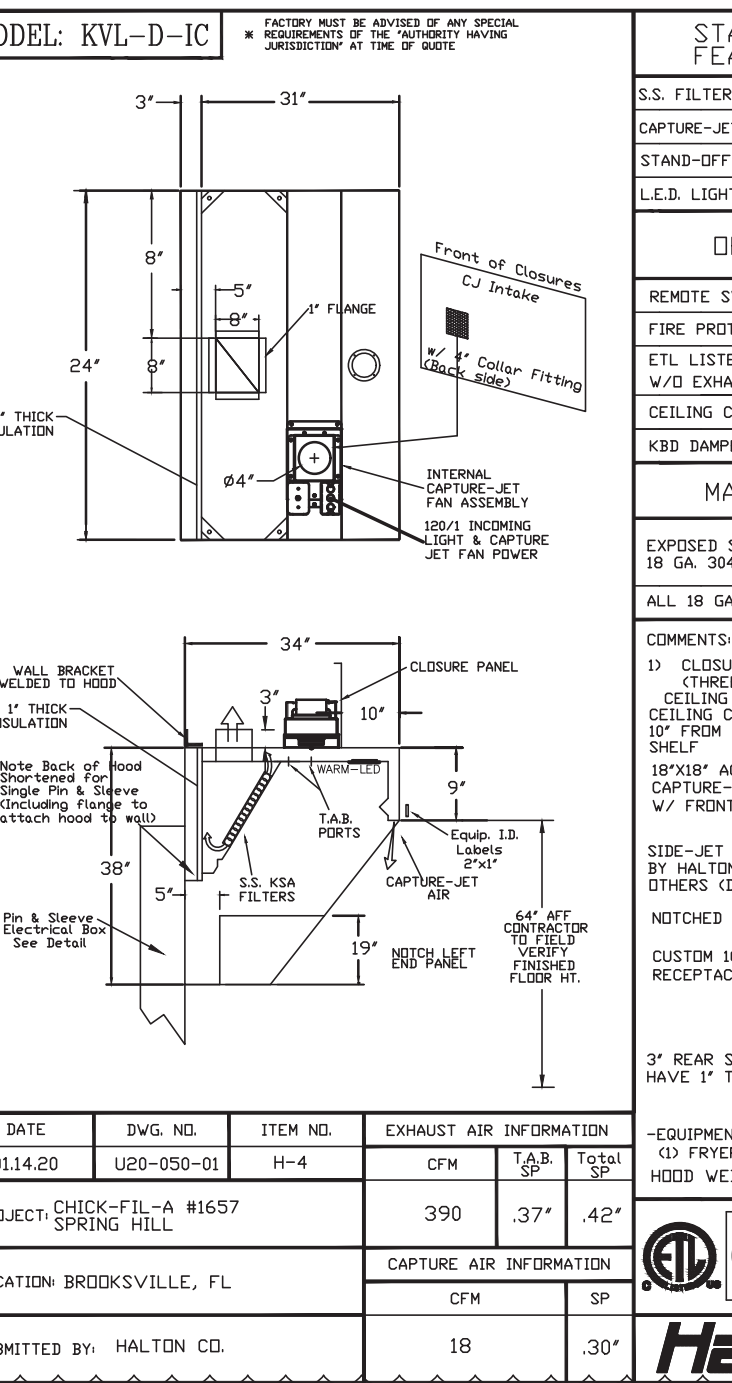
HOOD WEIGHT: 262 LBS

DATE: 01.14.20 DWG. NO.: U20-050-01 ITEM NO.: H-3 EXHAUST AIR INFORMATION: CFM TAB SP

PROJECT: CHICK-FIL-A #1657 SPRING HILL

LOCATION: BROOKSVILLE, FL CAPTURE AIR INFORMATION: CFM TAB SP

SUBMITTED BY: HALTON CO. 30 .29'



MODEL: KVL-D-IC

STANDARD FEATURES

- S.S. FILTERS (KSA) 1
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED V/O EXHAUST DAMPER
- CEILING CLOSURE
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

1) CLOSURE HEIGHT = 780 (740 SIDES)
CEILING HEIGHT = ADVISE
CEILING CLOSURE RECESSED 1/2" FROM FRONT TO CREATE SHELVE

18"x18" ACCESS DOOR TO CAPTURE-JET FAN W/ FRONT C.J. INTAKE

SIDE-ET PLENUM SUPPLIED BY HALTON INSTALLED BY OTHERS (DETAIL "A")

NOTCHED LEFT END PANEL DOUBLE RECEPTACLE PIN & SLEEVE

3" REAR SIDE STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED

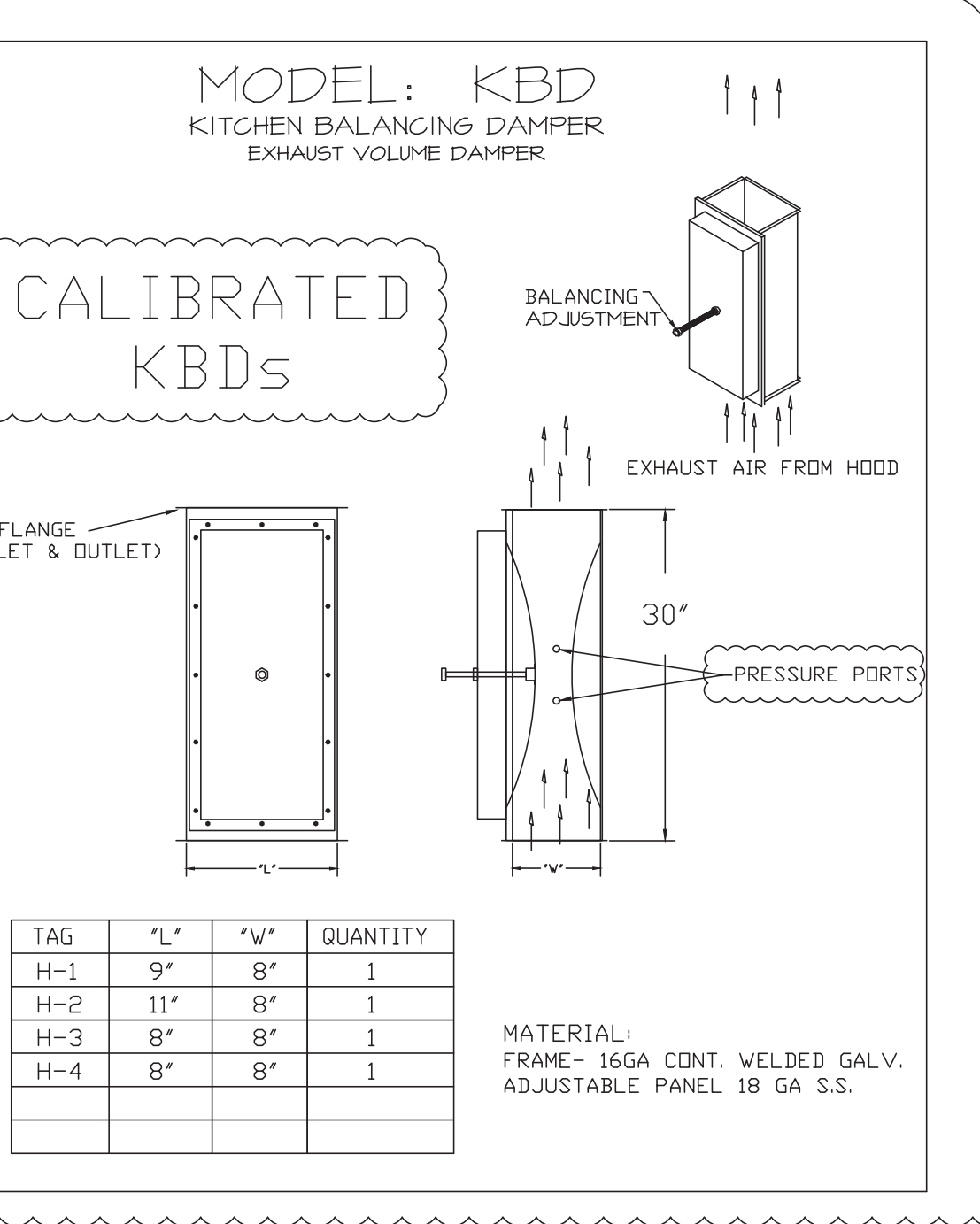
HOOD WEIGHT: 150 LBS

DATE: 01.14.20 DWG. NO.: U20-050-01 ITEM NO.: H-4 EXHAUST AIR INFORMATION: CFM TAB SP

PROJECT: CHICK-FIL-A #1657 SPRING HILL

LOCATION: BROOKSVILLE, FL CAPTURE AIR INFORMATION: CFM TAB SP

SUBMITTED BY: HALTON CO. 18 .30'



MODEL: KBD
KITCHEN BALANCING DAMPER
EXHAUST VOLUME DAMPER

STANDARD FEATURES

- S.S. FILTERS (KSA) 1
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED V/O EXHAUST DAMPER
- CEILING CLOSURE
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS

1) CLOSURE HEIGHT = 780 (740 SIDES)
CEILING HEIGHT = ADVISE
CEILING CLOSURE RECESSED 1/2" FROM FRONT TO CREATE SHELVE

18"x18" ACCESS DOOR TO CAPTURE-JET FAN W/ FRONT C.J. INTAKE

SIDE-ET PLENUM SUPPLIED BY HALTON INSTALLED BY OTHERS (DETAIL "A")

NOTCHED LEFT END PANEL DOUBLE RECEPTACLE PIN & SLEEVE

3" REAR SIDE STAND-OFF TO HAVE 1" THICK INSULATION

EQUIPMENT COVERED

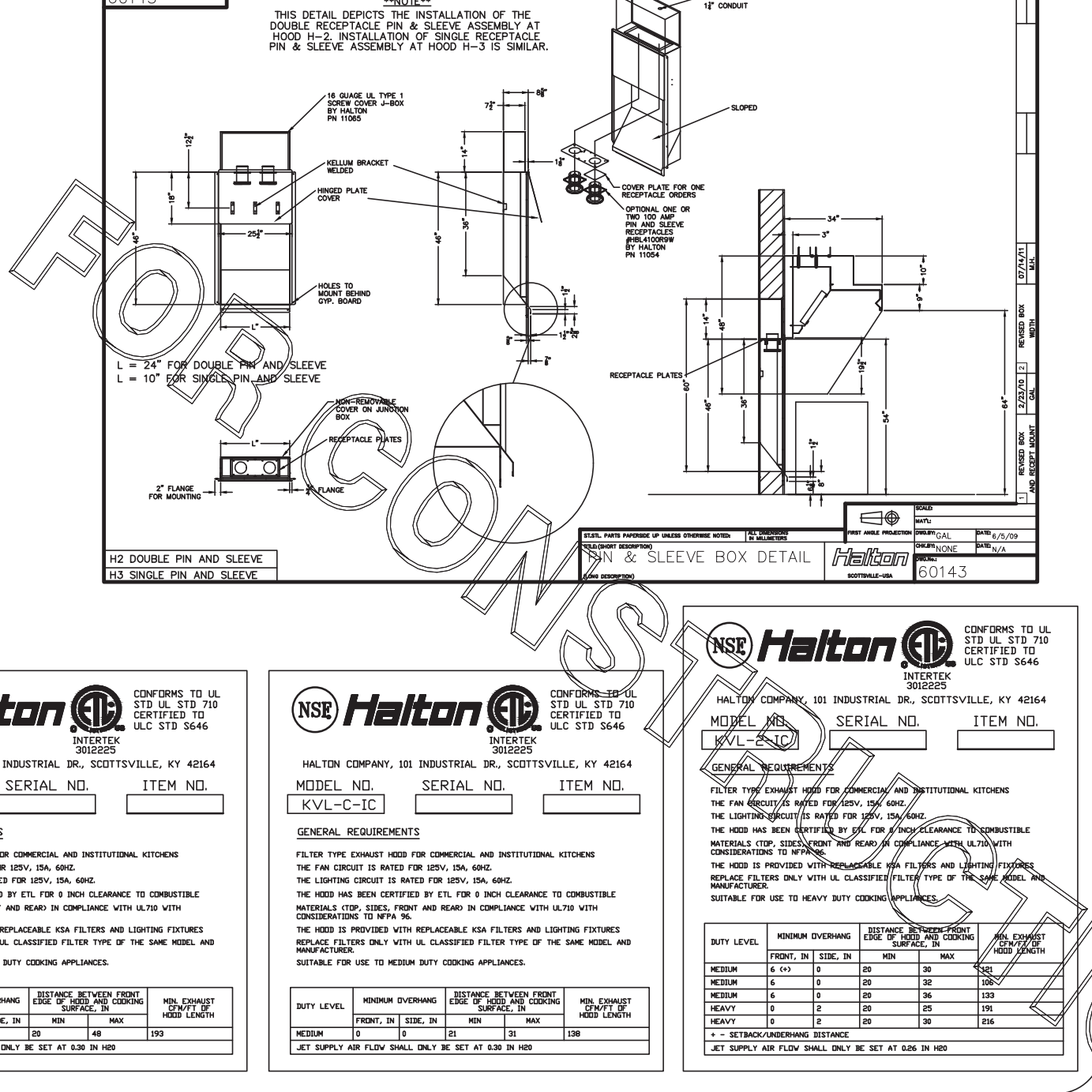
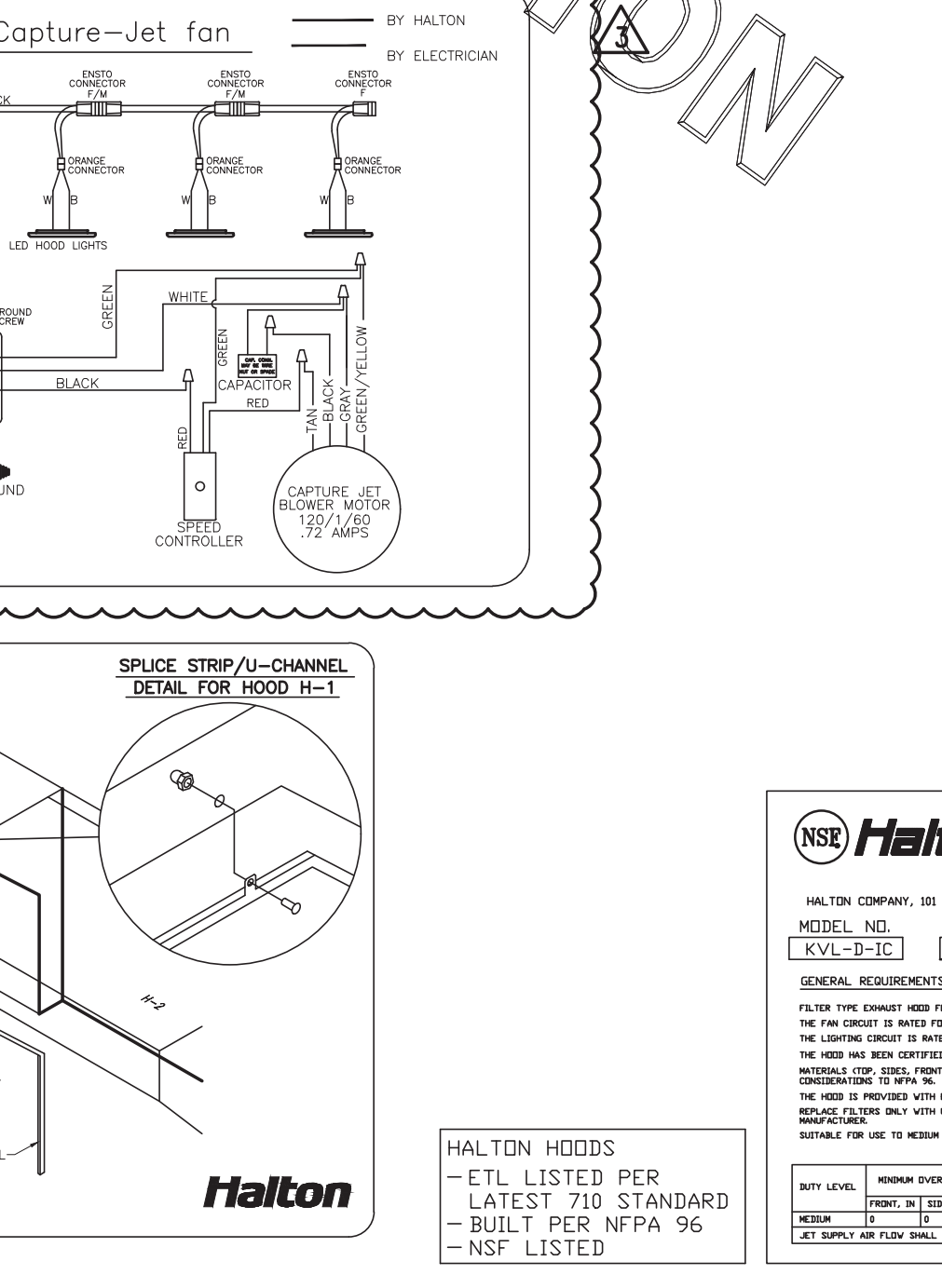
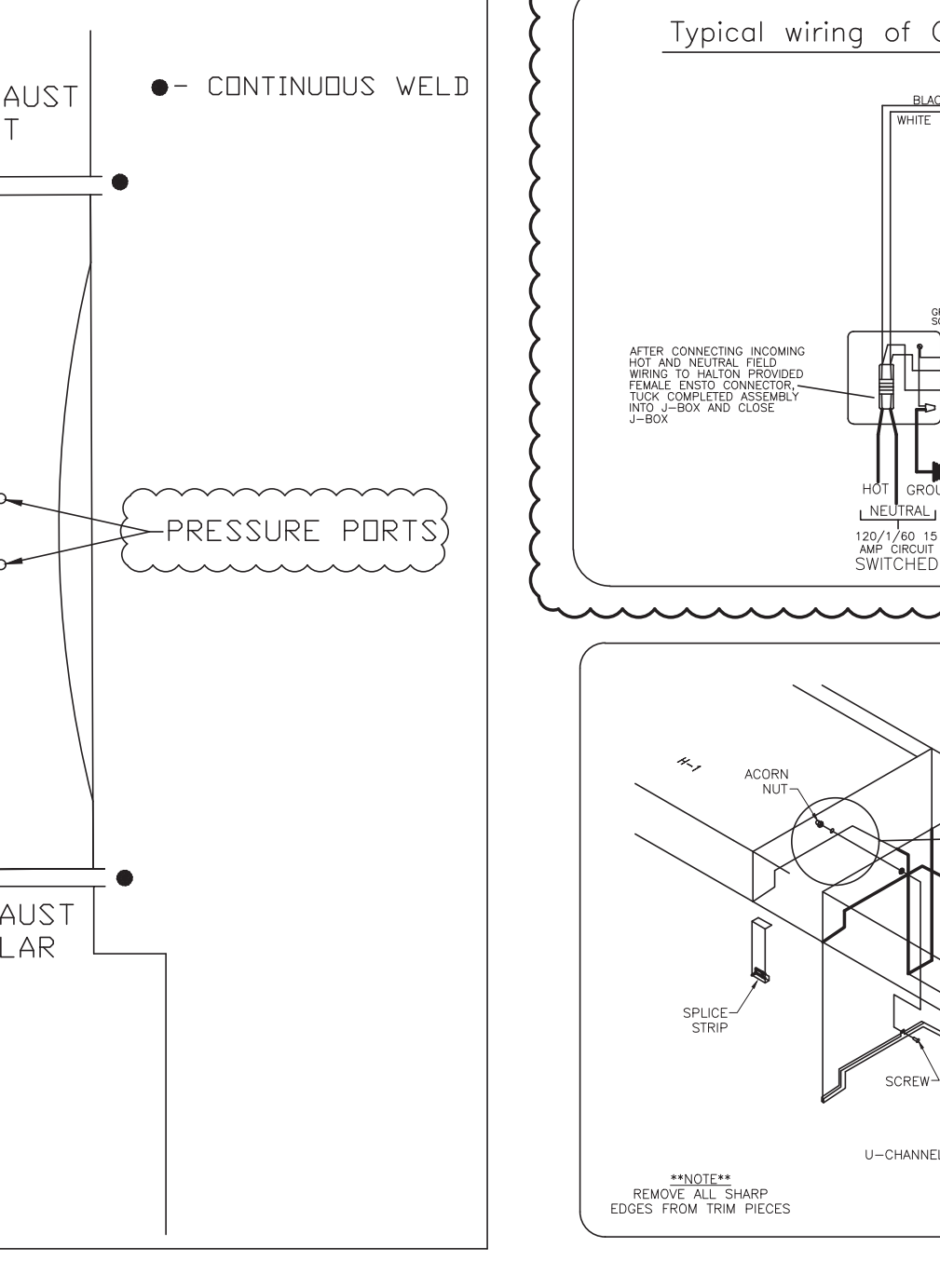
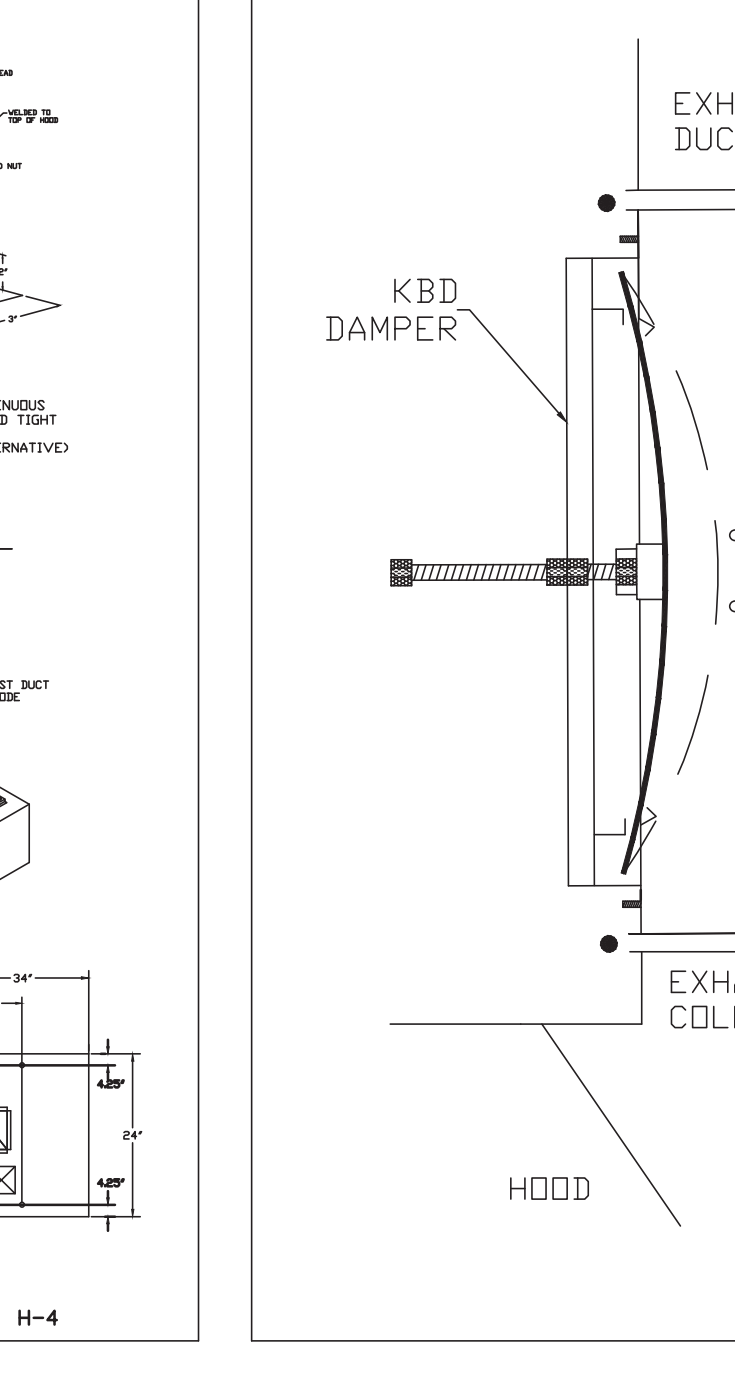
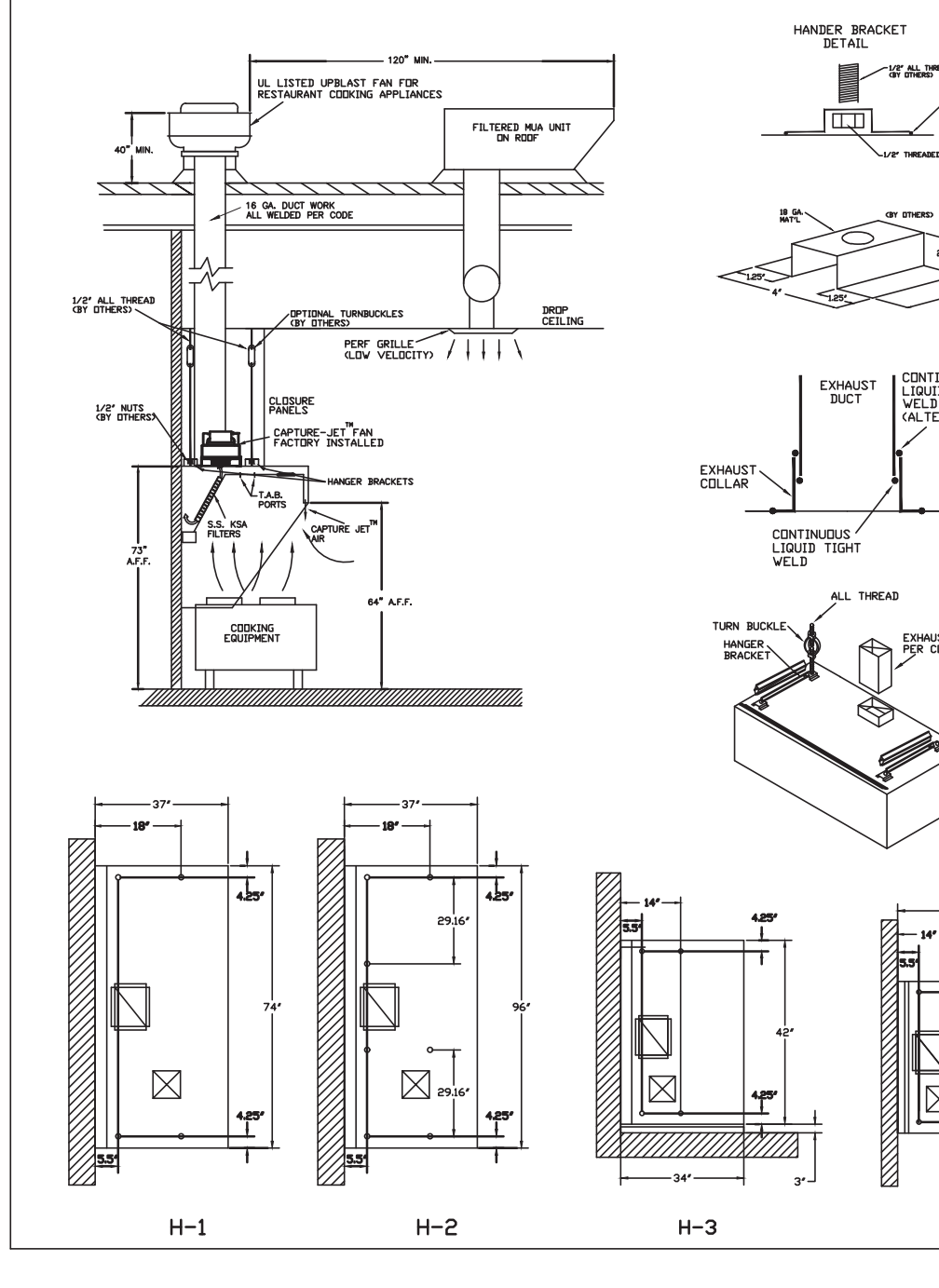
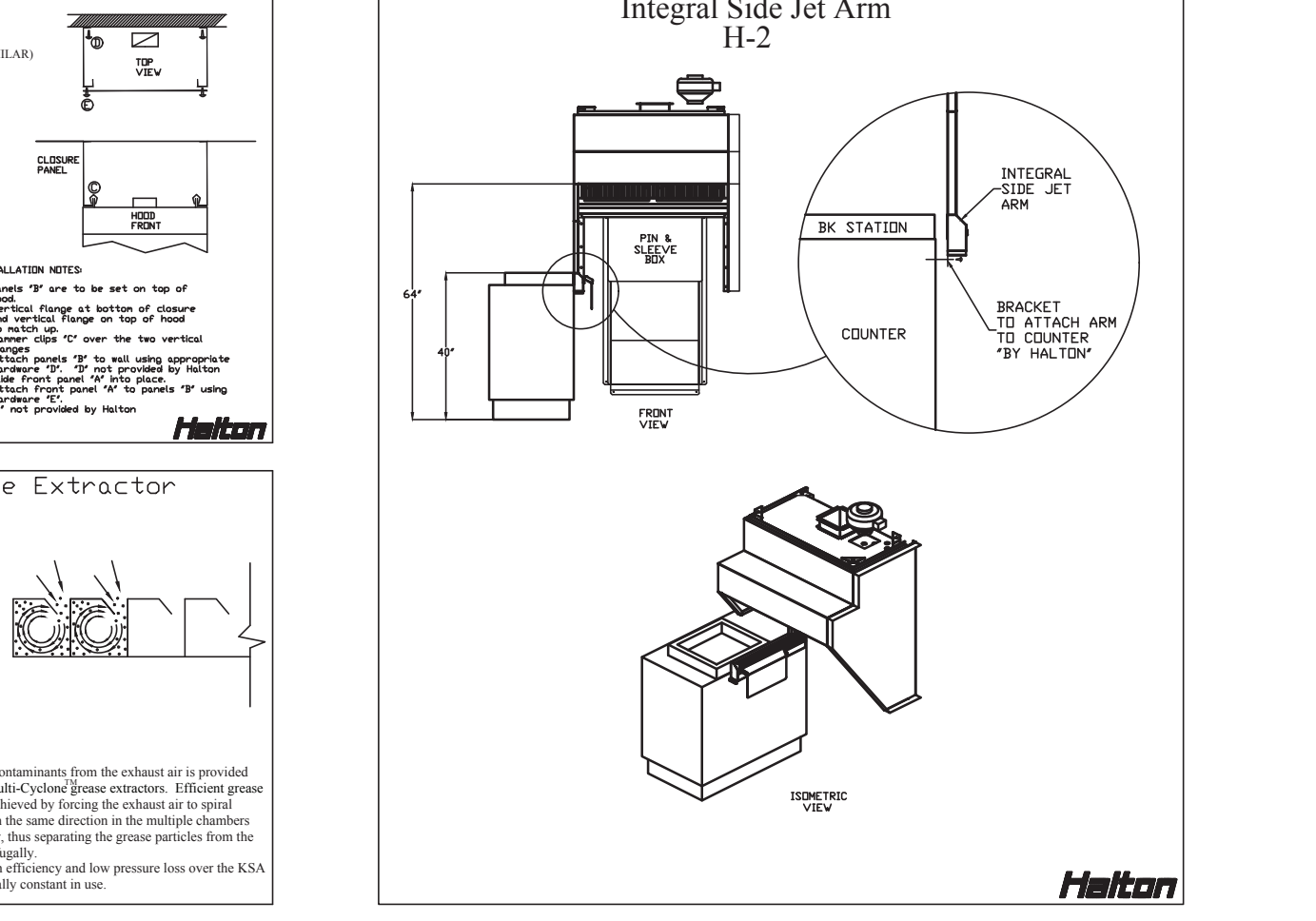
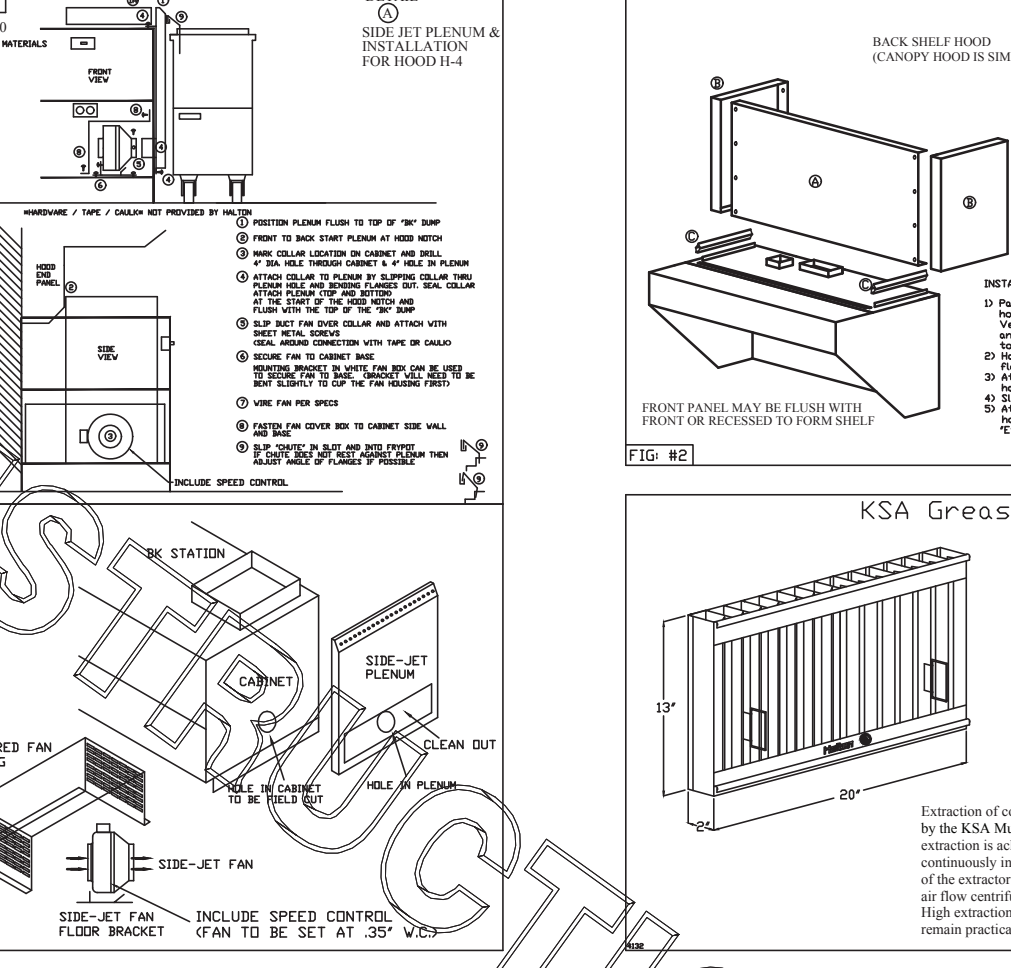
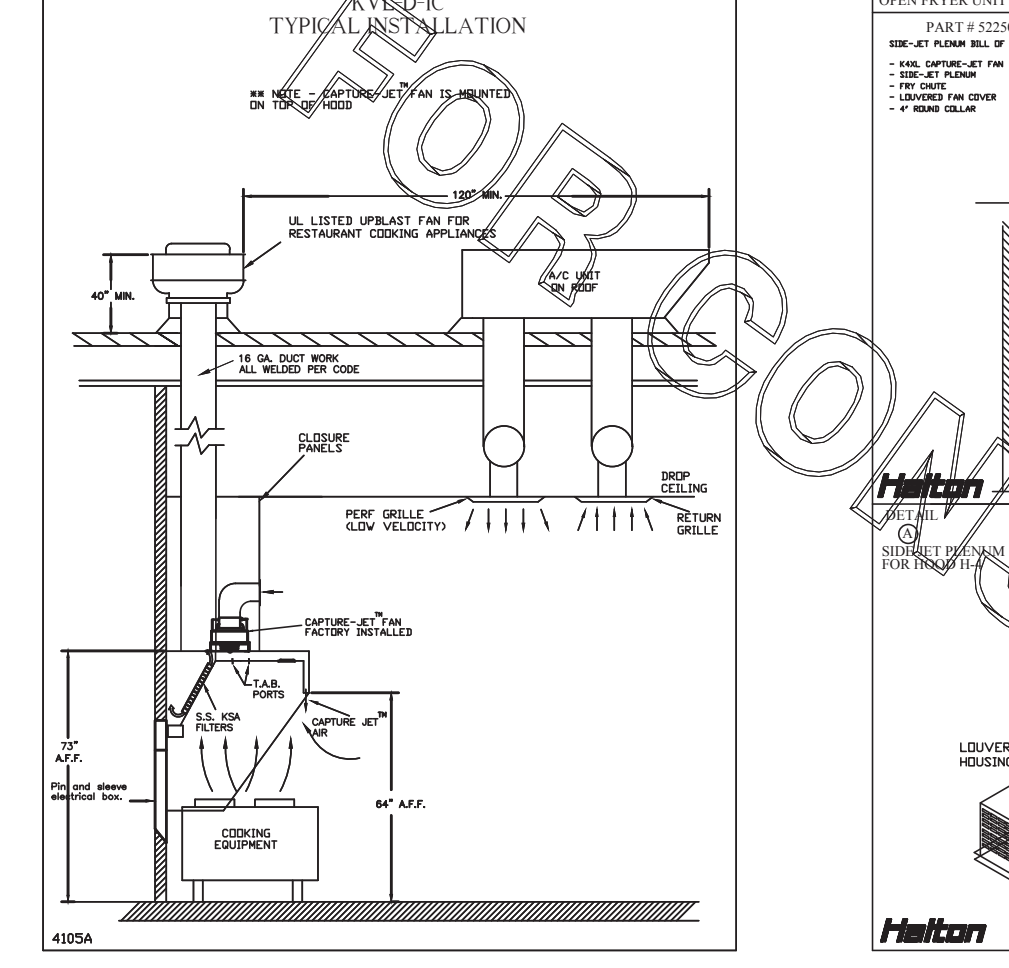
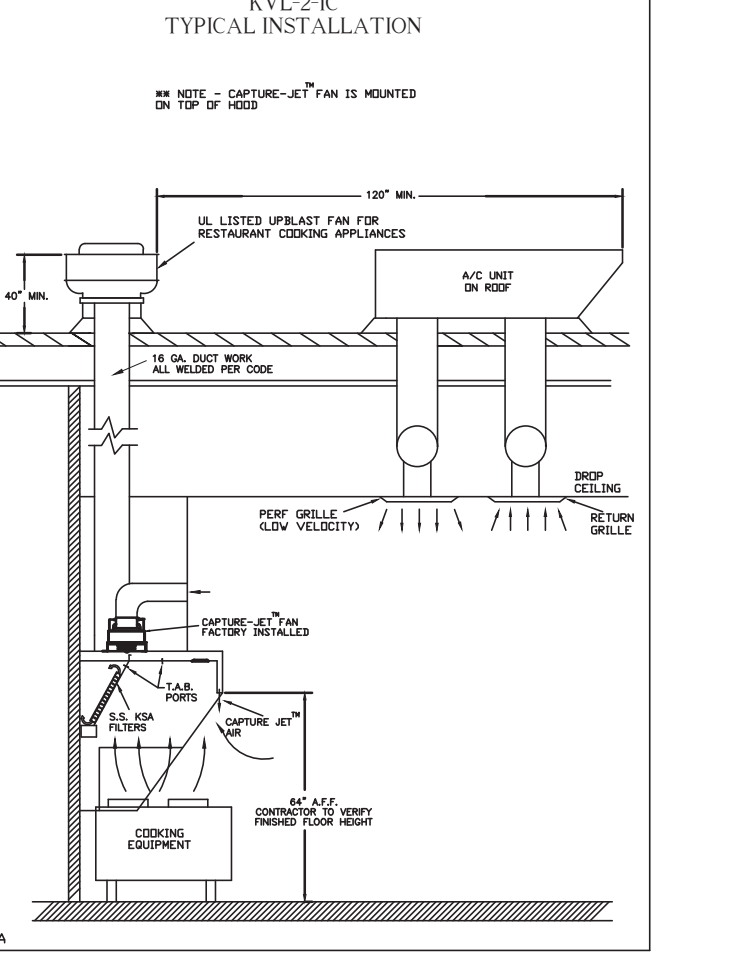
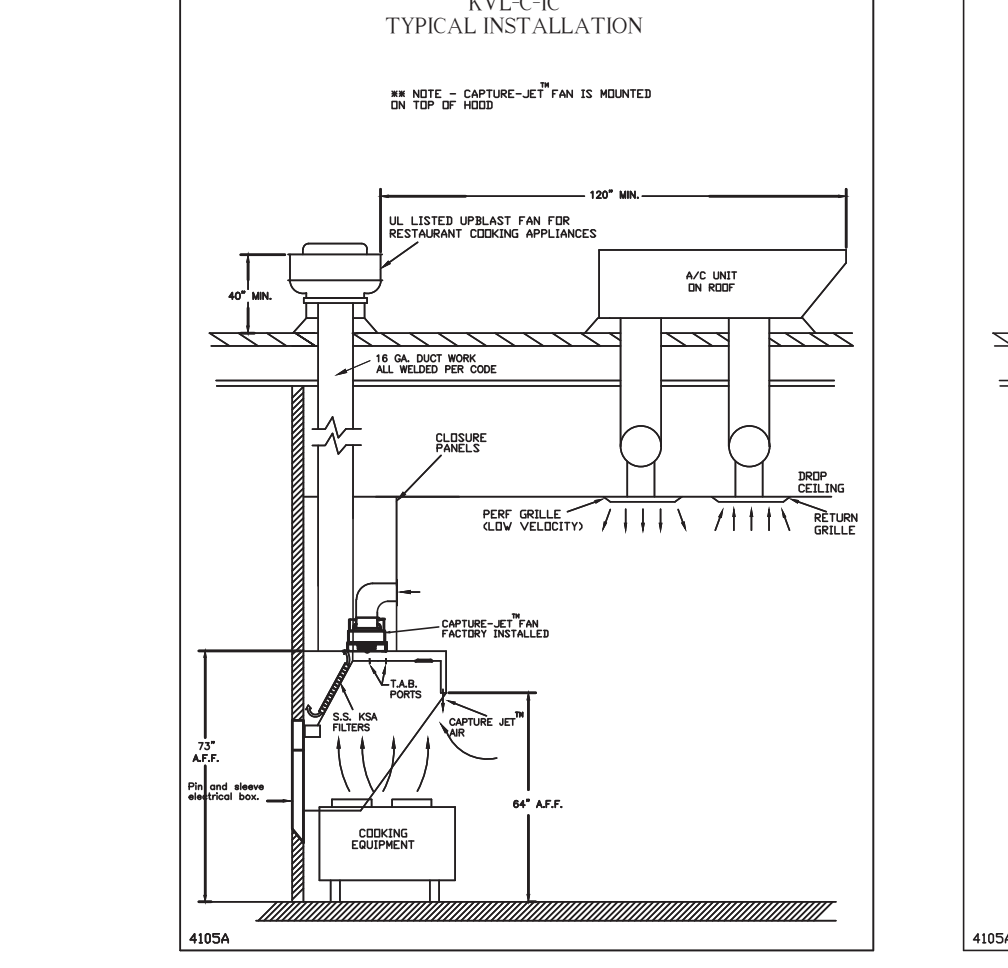
HOOD WEIGHT: 150 LBS

DATE: 01.14.20 DWG. NO.: U20-050-01 ITEM NO.: H-4 EXHAUST AIR INFORMATION: CFM TAB SP

PROJECT: CHICK-FIL-A #1657 SPRING HILL

LOCATION: BROOKSVILLE, FL CAPTURE AIR INFORMATION: CFM TAB SP

SUBMITTED BY: HALTON CO. 18 .30'



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

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

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT, SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES, SUCH AS RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

REVISE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH NO CHANGES
 WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42404
1-800-824-0301

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ONT. L4X 1L7
1-905-624-0301

REVISION DESCRIPTION

REV.	DATE	DESCRIPTION
1	08.17.21	UPDATED HOODS
2		
3		
4		
5		
6		
7		

PROJECT: CHICK-FIL-A #1657 SPRING HILL

LOCATION: BROOKSVILLE, FL

DATE: 01.14.20

SCALE: NTS

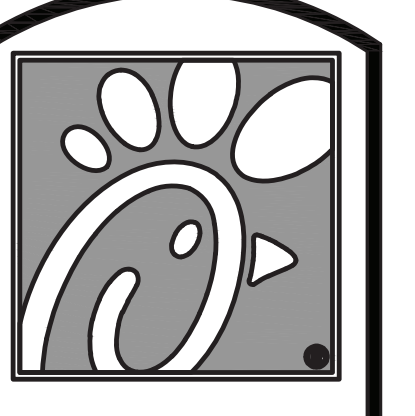
Model: KVL-2-IC

Model: KVL-C-IC

Model: KVL-D-IC

Model: KBD

Model: H-1.1



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By
3 08/12/21 CH
PRE-BID COMMENT

FOR INFORMATION ONLY

FOR INFORMATION ONLY

INTERPLAN
INTERPLAN LLC
AR001195
CA 8640

ARCHITECTURE
ENGINEERING
PERMITTING

220 E. CENTRAL PKWY. STE 4000
ALAMONTE SPRINGS, FL 32701
407.645.5008

STORE
SPRING HILL
FSU #1657
S04-166

13143 CORTEZ BLVD
BROOKSVILLE, FL
34613

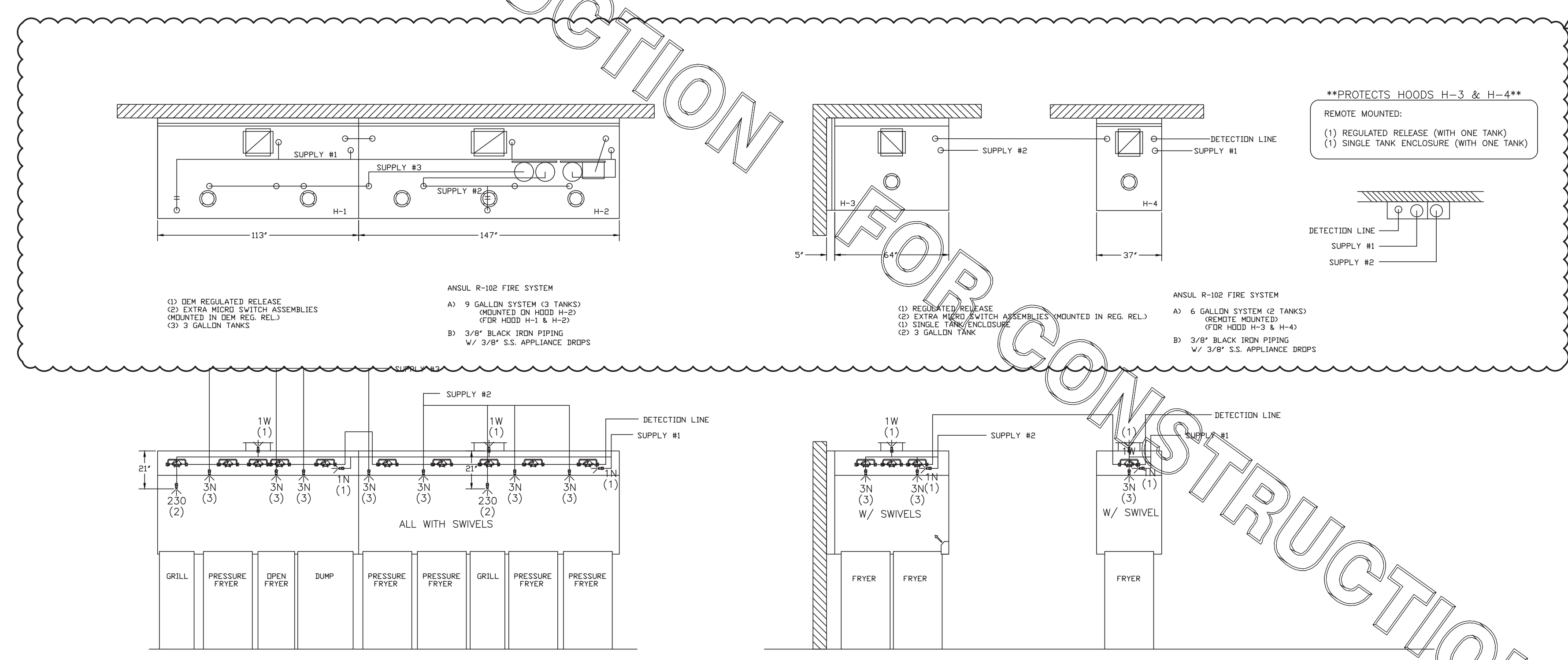
SHEET TITLE
HOOD DETAILS

VERSION: 19.045
ISSUE DATE: 10.2019

Job No.: 19.0326
Store: 1657
Date: 01.2020
Drawn By: CH
Checked By: JL

MHI

FOR CONSTRUCTION



ANSUL R-102 FIRE SYSTEM LAYOUT

ANSUL R-102 FIRE SYSTEM LAYOUT

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450°
2 BURNER / FLAT TOP	450°
PRESSURE FRYERS	450°
GRILL	450°
EXHAUST COLLARS	450°

ANSUL R-102 FIRE SYSTEM NOTES
THREE TANK SYSTEM MOUNTED ON TOP OF (H-2)
MAXIMUM FLOW POINTS = 33

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

ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	4	DUCT NOZZLES	4
1N	4	PLENUM NOZZLES	4
230	2	APPLIANCE NOZZLES	4
3N	10	APPLIANCE NOZZLES	30

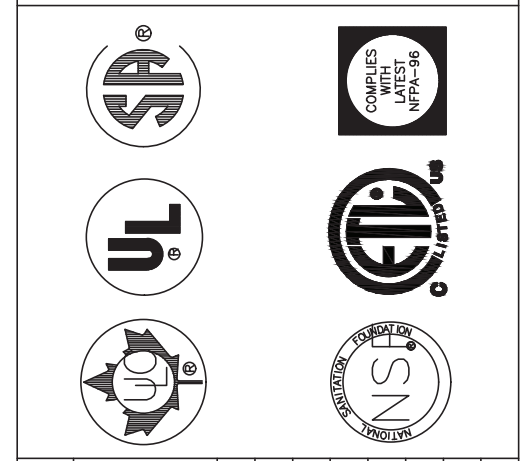
TOTAL FLOW POINTS - 42

ITEM #	QTY	DESCRIPTION
#200	12	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	1	DEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#202	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#203	5	3 GALLON TANKS
#204	1	SINGLE TANK ENCLOSURE
#205	2	REMOTE PULL STATION

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

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

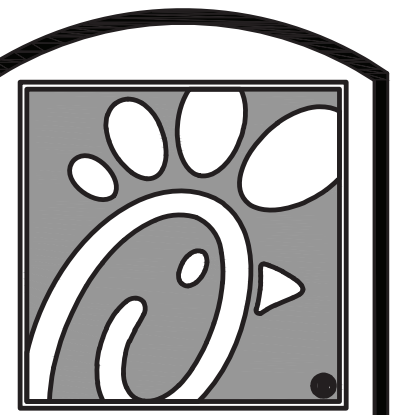
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2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.
NOTE: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.
 REVISE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH NO CHANGES
 WITH CHANGES AS NOTED



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:	WEBSITE: WWW.HALTONCOMPANY.COM
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301	HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42164 1-270-237-5600
REV. 1	DATE 01.14.20
REV. 2	DATE 01.14.20
REV. 3	DATE 01.14.20
REV. 4	DATE 01.14.20
REV. 5	DATE 01.14.20
REV. 6	DATE 01.14.20
REV. 7	DATE 01.14.20

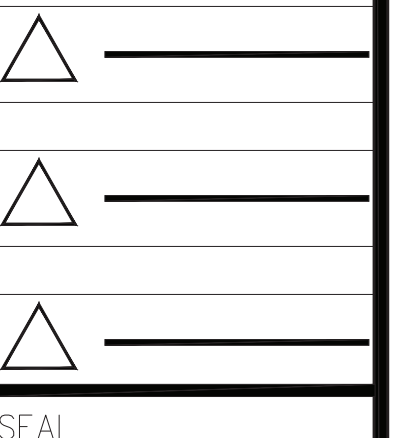
PROJECT: CHICK-FIL-A #1657
SPRING HILL
LOCATION: BROOKSVILLE, FL
DRAWN BY: AF DATE: 01.14.20
SCALE: NTS
Halton Dwg: U20-050-02

Sheet H-1.2



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By
3 08/12/21 CH
PRE-BID COMMENT



FOR INFORMATION ONLY

INTERPLAN
INTERPLAN LLC
AR001595
CA 8660
ARCHITECTURE
ENGINEERING
PERMITTING
220 E. CENTRAL PKWY, STE 4000
ATLANTA, GA 30331
407.645.5008

STORE
SPRING HILL
FSU #1657
S04-166

13143 CORTEZ BLVD
BROOKSVILLE, FL
34613

SHEET TITLE
HOOD DETAILS

VERSION: 19.0326
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Job No. : 19.0326
Store : 1657
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Drawn By : CH
Checked By : JL

Sheet
MHI.2