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30-LE-05562-M-001-GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS

DIVISION 23 SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

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

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT

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

2.02 DUCTWORK (C15735)

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

2.03 CONTROLS

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

2.04 PIPING

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

GENERAL NOTES

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

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

PART III - EXECUTION

3.01 SCOPE

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

3.02 LEED PROJECTS

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

3.03 TEST & BALANCE

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

KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET CHEMICAL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED INSTALLER SELECTED AND HIRED BY HALTON. COST FOR INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH UNIFRAX FYREWREAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWREAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.
10. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.

LEGEND

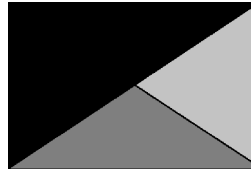
A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER WITHOUT SCOOP		AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD & FLEXIBLE DIFFUSER		RETURN/EXHAUST (TYP.)
	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
	HUMIDITY SENSOR		PLAN NOTE REFERENCE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

ABBREVIATIONS

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



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05/22/24

CHICK-FIL-A
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Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

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

2.03 CONTROLS

- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6879). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR WHERE PERMITTED BY AHJ.
- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.
- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.
- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.
- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.
- G. THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. REMOTE TEMPERATURE SENSOR(S) FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR(S) AND THE ROOFTOP UNIT.
- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

2.04 PIPING

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

GENERAL NOTES

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

KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET CHEMICAL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED INSTALLER SELECTED AND HIRED BY HALTON. COST FOR INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH UNIFRAX FYREWRAPI. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWRAPI PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.
10. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.

LEGEND

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

ABBREVIATIONS

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

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

PART III - EXECUTION

3.01 SCOPE

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

3.02 LEED PROJECTS

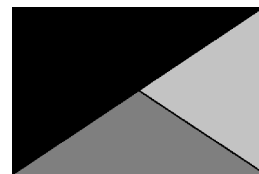
- A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.
- B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL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

3.03 TEST & BALANCE

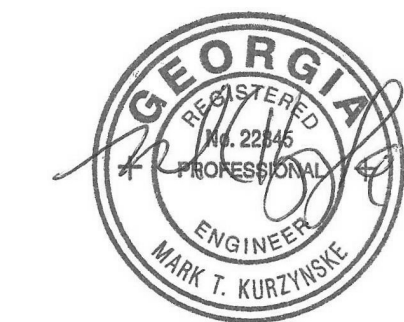
- A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT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



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10/03/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

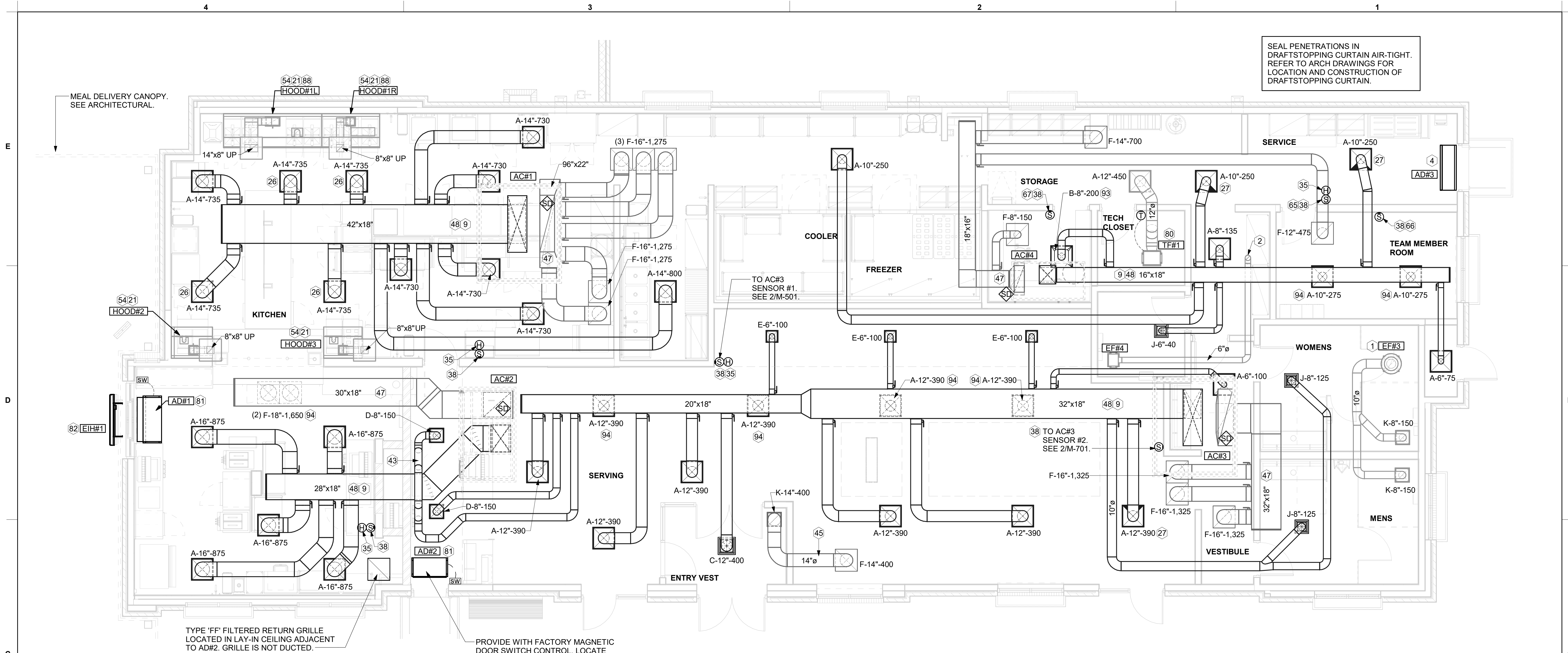
BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23-11
PRINTED FOR:
CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
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SHEET
GENERAL NOTES,
LEGENDS, SYMBOLS, AND
ABBREVIATIONS
SHEET NUMBER

M-001



EQUIPMENT AND DUCTWORK PLAN

1/4" = 1'-0"

H.E.S. SYSTEM

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.

AIR BALANCE SCHEDULE					
Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,125	6,375	1,750	0	
AC#2	4,375	3,300	1,075	0	
AC#3	5,250	3,975	1,275	0	
AC#4	1,750	1,325	425	0	
EF#1	0	0	0	1,913	
EF#2	0	0	0	1,402	
EF#3	0	0	0	300	
EF#4	0	0	0	75	
	19,500	14,975	4,525	3,690	

KEY NOTES

- 10" DIA. DUCT UP THRU ROOF.
- PROVIDE DUCT AS SHOWN. TERMINATE DUCT 24" ABOVE ROOF WITH ALUMINUM WEATHER CAP WITH INTEGRAL BIRD SCREEN. EXHAUST DUCT DISCHARGE SHALL BE LOCATED A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
- AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
- ROUTE DUCT WITHIN STRUCTURE.
- TRANSFER AIR DUCT, NO BALANCING DAMPERS AT GRILLES.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 5/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
- TO AC#4, SENSOR #1. SEE 2/M-701.
- TO AC#4, SENSOR #2. SEE 2/M-701.
- TO AC#4, SENSOR #3. SEE 2/M-701.
- CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE TO TYPE 'A' DIFFUSER AS SHOWN.
- MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
- ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- PULL STATION FOR KITCHEN EXHAUST HOOD MOUNTED 42" TO 48" A.F.F. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. JUNCTION BOX AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE PLASTIC ENGRAVED LABEL - RED WITH 1" HIGH WHITE LETTERING. LABELS SHALL BE AS FOLLOWS: HOOD #1 - "MAIN COOKLINE", HOOD #2 - "PASS THRU - RIGHT", HOOD #3 - "PASS THRU - LEFT".
- MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.
- TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.

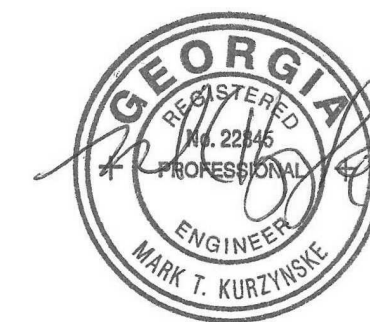


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05/22/24

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FSR#05562

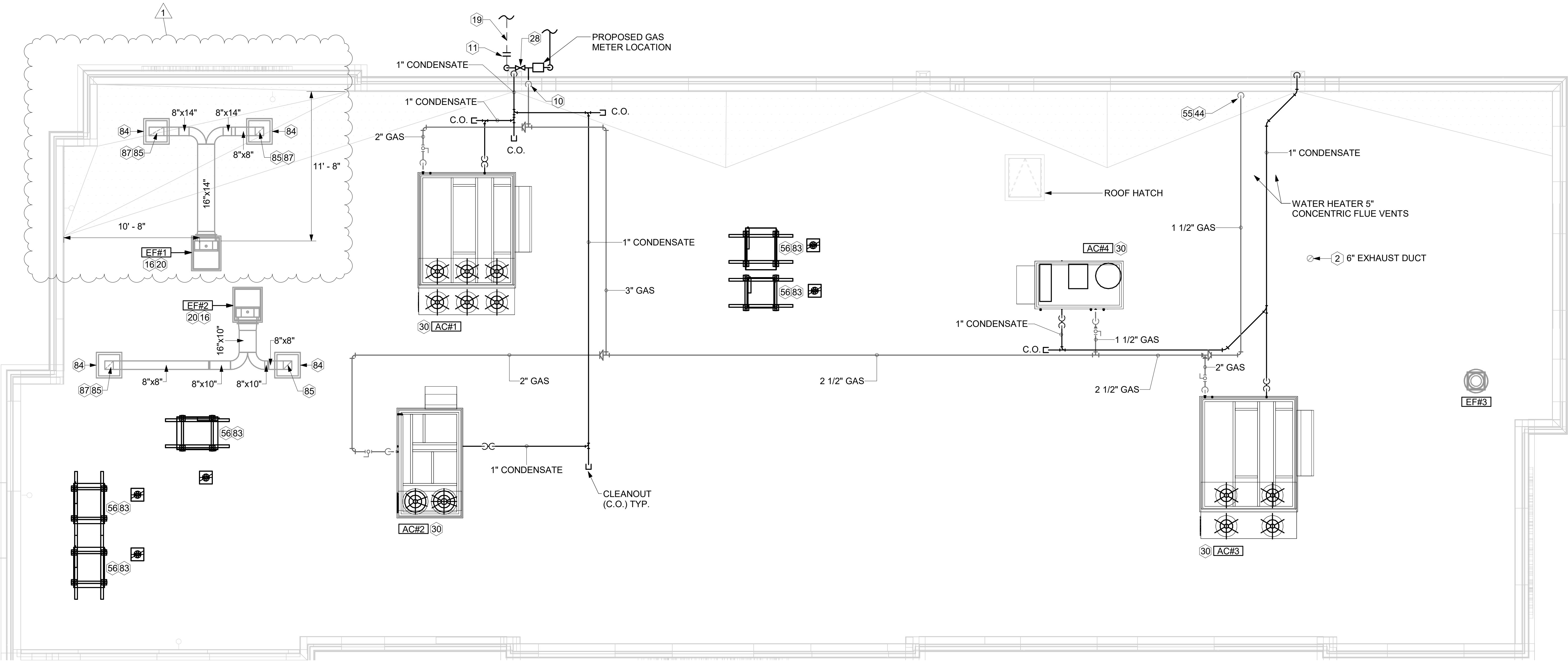
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SHEET
EQUIPMENT AND DUCTWORK PLAN - LENNOX
SHEET NUMBER

M-101

Autodesk Docs\\GA_05562_Centerville Hwy & Zoar ChurchRd_2023.12_FSR05562_Centerville Hwy & Zoar ChurchRd_MEC.rvt
5/23/2024 8:27:19 AM
30-LE-05562-M-102-EQUIPMENT ROOF PLAN - LENNOX



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

KEY NOTES

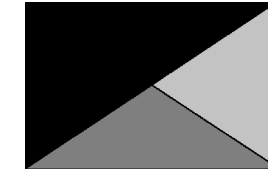
- 2 PROVIDE DUCT AS SHOWN. TERMINATE DUCT 24" ABOVE ROOF WITH ALUMINUM WEATHER CAP WITH INTEGRAL BIRD SCREEN. EXHAUST DUCT DISCHARGE SHALL BE LOCATED A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
- 10 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.
- 11 ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.
- 16 VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 19 1-1/2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 SHEET M-103.
- 20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET.
- 28 PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WINGS HANDLE OPTION ABOVE GRADE AT THE METER. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY HEATERS."
- 30 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
- 44 1-1/2" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 2/M-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION.
- 55 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.
- 56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.
- 83 DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.
- 84 ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 85 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.
- 87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

3.	GAS LOAD SCHEDULE
EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	240,000 BTUS
AC#3	480,000 BTUS
AC#4	150,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
WATER HEATER (WH-1)	398,000 BTUS
TOTAL FUTURE CONNECTED LOAD	2,048,000 BTUS
REMARKS:	1. EQUIVALENT TO 2,048.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 175 FT. (METER TO WH-1) 4. GAS PIPING SIZED FOR FUTURE LOAD

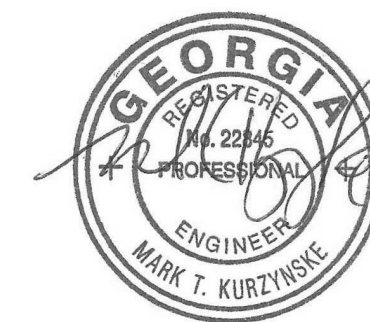


Chick-fil-A

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05/22/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11

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CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	05/22/2024	Plan Review Comments

CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
DRAWN BY BLM

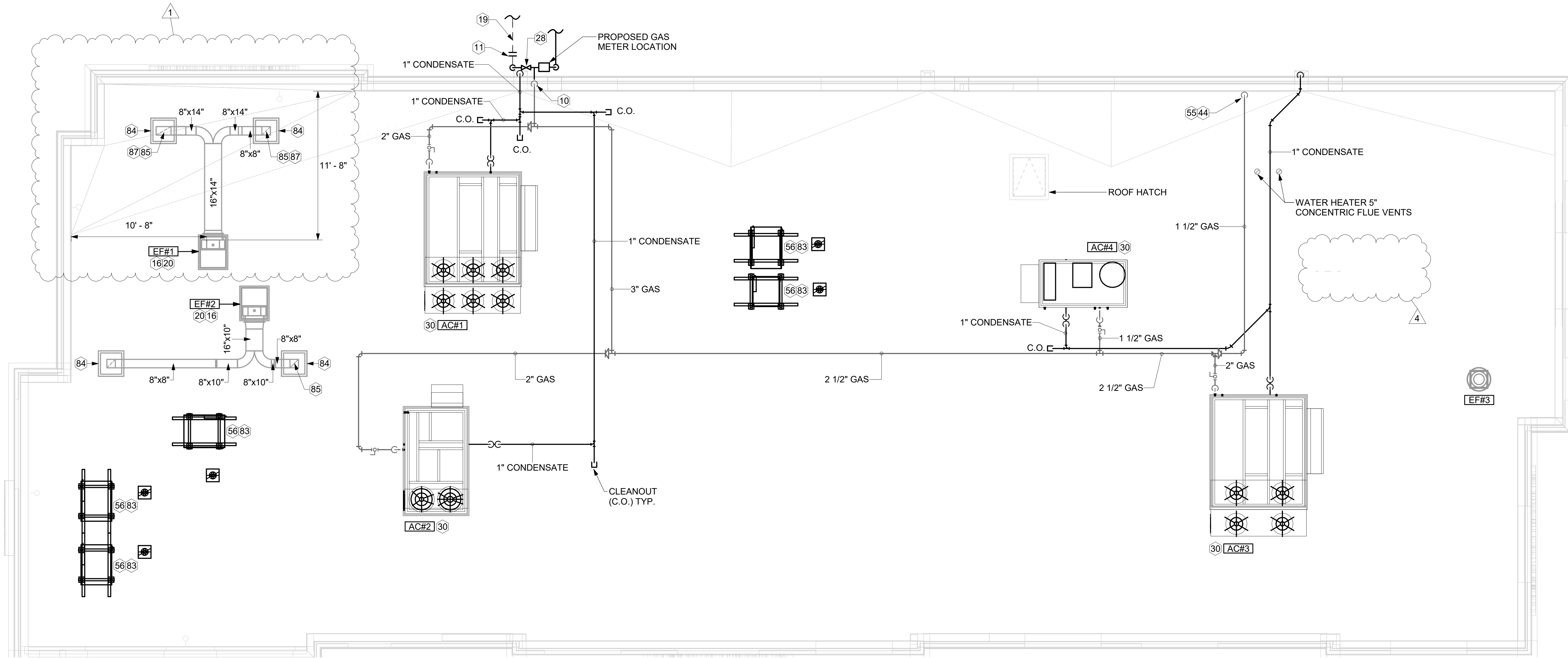
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SHEET
EQUIPMENT ROOF PLAN -
LENNOX

SHEET NUMBER

M-102

Autodesk Docs://GA_05562_Centerville Hwy& Zoar ChurchRd_2023.12_FSR05562_Centerville Hwy& Zoar ChurchRd_MEC.rvt
10/2/2024 3:31:02 PM
30-LE-05562-M-102-EQUIPMENT ROOF PLAN - LENNOX



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

KEY NOTES

- TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.
- ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER, FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.
- VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- 1-1/2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 SHEET M-103.
- GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET.
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- MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
- 1-1/2" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 2/M-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION.
- SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.
- GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.
- DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.
- ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.
- DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.

3. GAS LOAD SCHEDULE	
EQUIPMENT	GAS LOAD
AC#1	480,000 BTUS
AC#2	240,000 BTUS
AC#3	480,000 BTUS
AC#4	150,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
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TOTAL FUTURE CONNECTED LOAD	2,048,000 BTUS
REMARKS:	1. EQUIVALENT TO 2,048.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 175 FT. (METER TO WH-1) 4. GAS PIPING SIZED FOR FUTURE LOAD

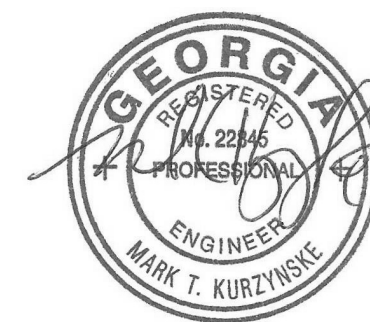


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10/03/24

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Church Road
3366 Centerville Hwy
Snellville, GA 30039

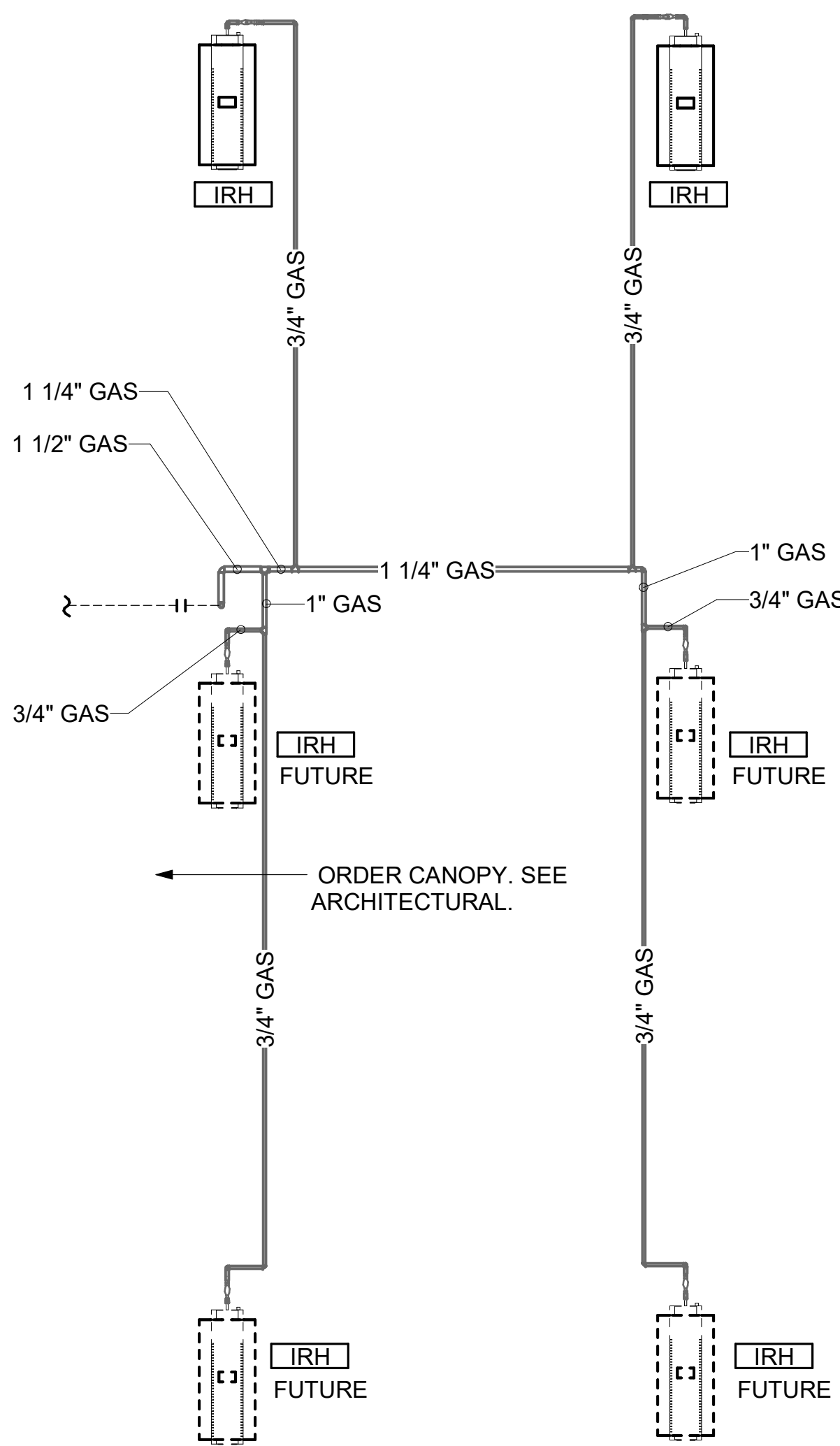
FSR#05562

BUILDING TYPE / SIZE:	P14 LE BN	
RELEASE:	23.11	
PRINTED FOR		
CONSTRUCTION		
<u>REVISION SCHEDULE</u>		
<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION</u>
1	05/22/2024	Plan Review
		Comments
4	10/03/2024	Construction Set

CONSULTANT PROJECT #	24024.CC.S
DATE	02/19/2024
DRAWN BY	BLM
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SHEET EQUIPMENT ROOF PLAN - LENNOX	
SHEET NUMBER	

M-102

Autodesk Docs://GA_05562_Centerville Hwy& Zoar ChurchRd_2023.12_FSR#05562_Centerville Hwy& Zoar ChurchRd_MEC.rvt
5/23/2024 8:27:20 AM
30-LE-05562-M-103-CANOPY HVAC PLAN



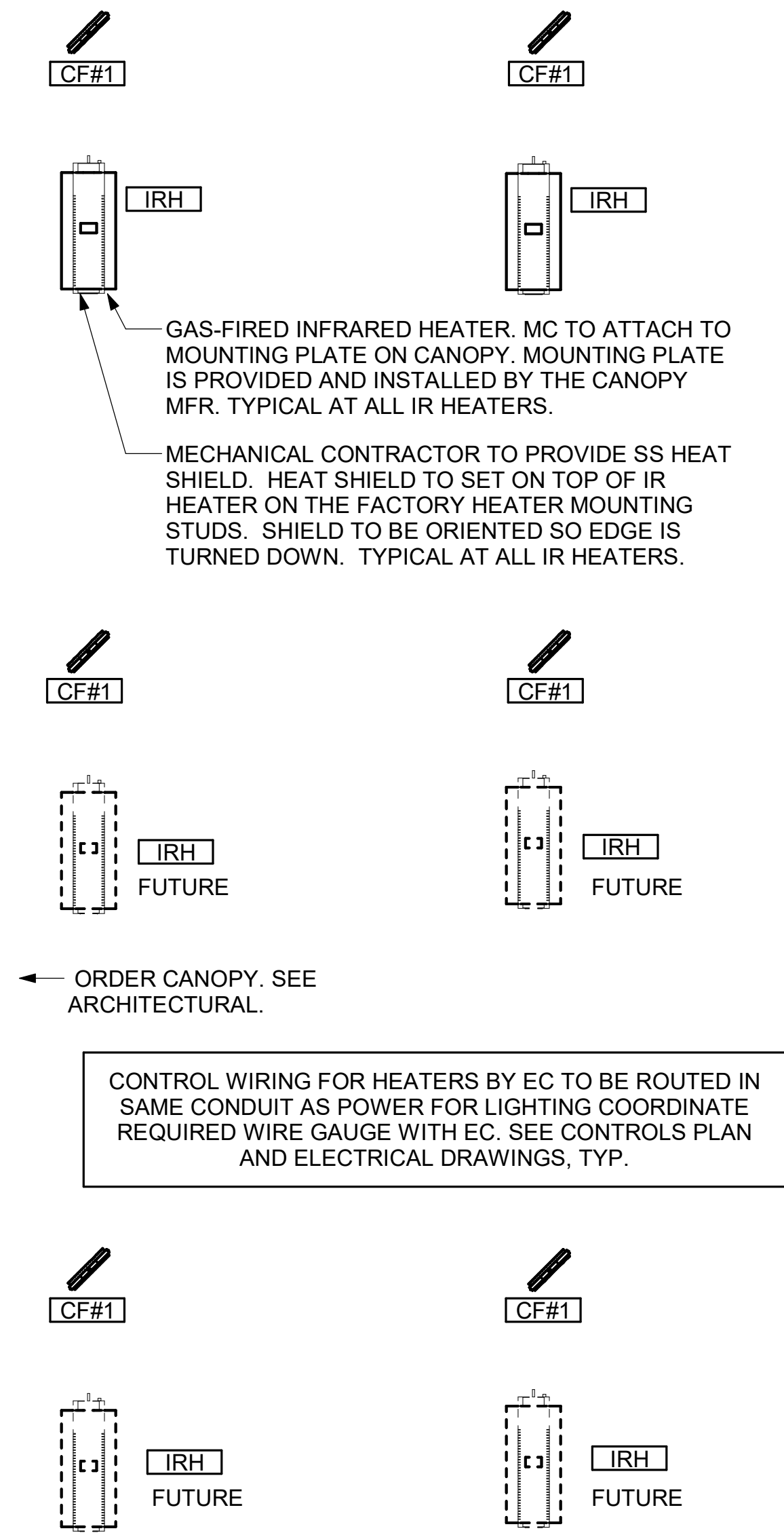
2 ORDER CANOPY GAS PIPING PLAN
1/4" = 1'-0"

CANOPY GENERAL NOTES

- COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
- COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
- EXPOSED GAS PIPING SHALL BE COVERED WITH A RUST INHIBITING PAINT SUCH AS RUST-OLEUM 5200. PAINT COLOR SHALL MATCH STRUCTURE. ROOF MOUNTED GAS PIPING COLOR SHALL BE YELLOW.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).

KEY NOTES

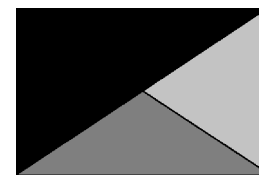
- 95 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.
- 96 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/M-502, TYPICAL.
- 97 SEE DETAIL 1/M-502 FOR PIPING AT IRH, TYPICAL.
- 98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.
- 99 1-1/2" GAS B/G TO METER SEE 1/M-102.



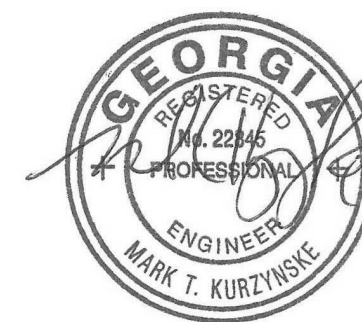
1 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"



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BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT #	24024.CC.S
DATE	02/19/2024
DRAWN BY	BLM

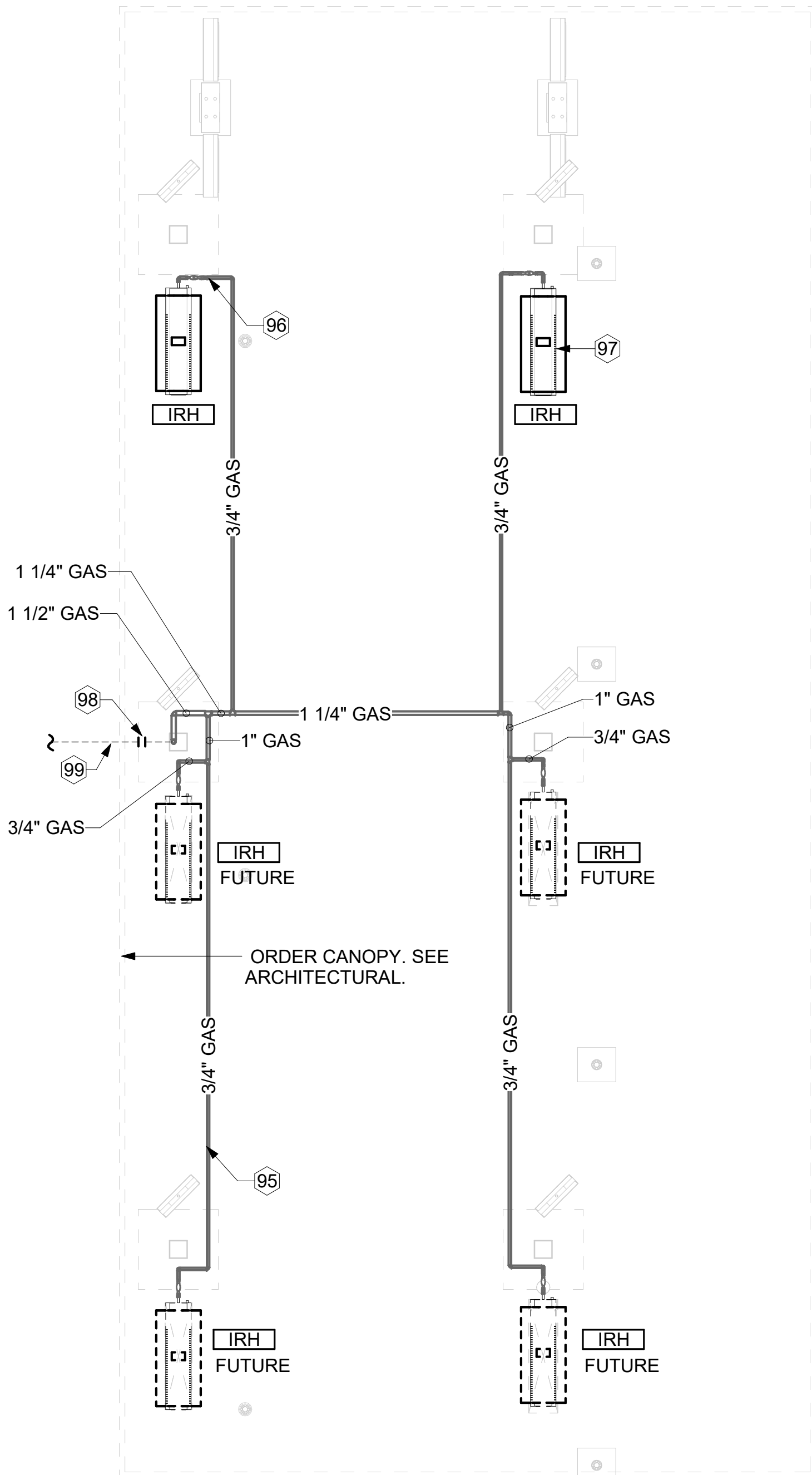
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CANOPY HVAC PLAN

SHEET NUMBER

M-103

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30-LE-05562-M-103-CANOPY HVAC PLAN



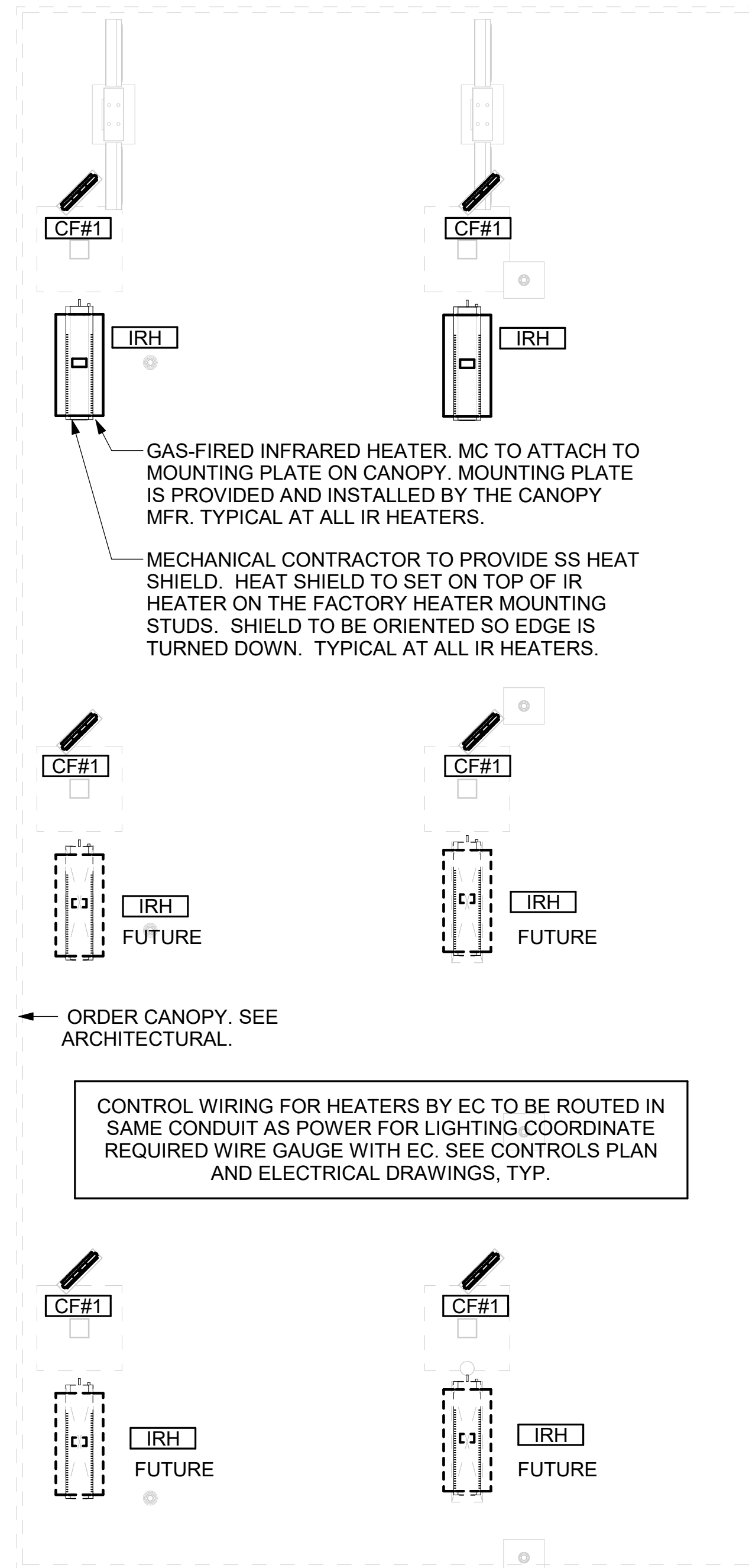
2 ORDER CANOPY GAS PIPING PLAN
1/4" = 1'-0"

CANOPY GENERAL NOTES

- COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
- COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
- EXPOSED GAS PIPING SHALL BE COVERED WITH A RUST INHIBITING PAINT SUCH AS RUST-OLEUM 5200. PAINT COLOR SHALL MATCH STRUCTURE. ROOF MOUNTED GAS PIPING COLOR SHALL BE YELLOW.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).

KEY NOTES

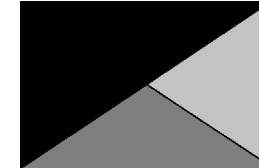
- 95 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.
- 96 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/M-502, TYPICAL.
- 97 SEE DETAIL 1/M-502 FOR PIPING AT IRH. TYPICAL.
- 98 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.
- 99 1-1/2" GAS B/G TO METER SEE 1/M-102.



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



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10/03/24

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Church Road
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Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
PRINTED FOR:
CONSTRUCTION
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT #	24024.CC.S
DATE	02/19/2024
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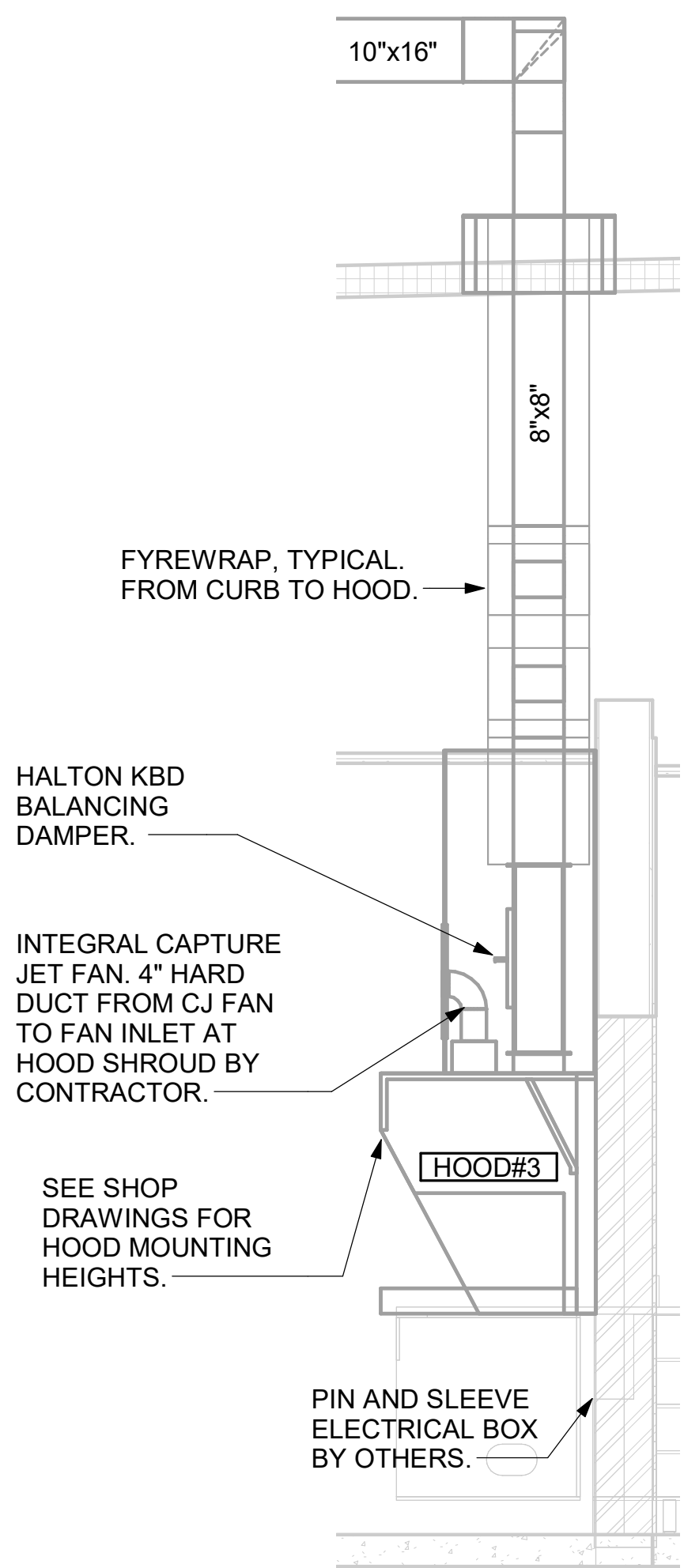
SHEET
CANOPY HVAC PLAN

SHEET NUMBER

M-103

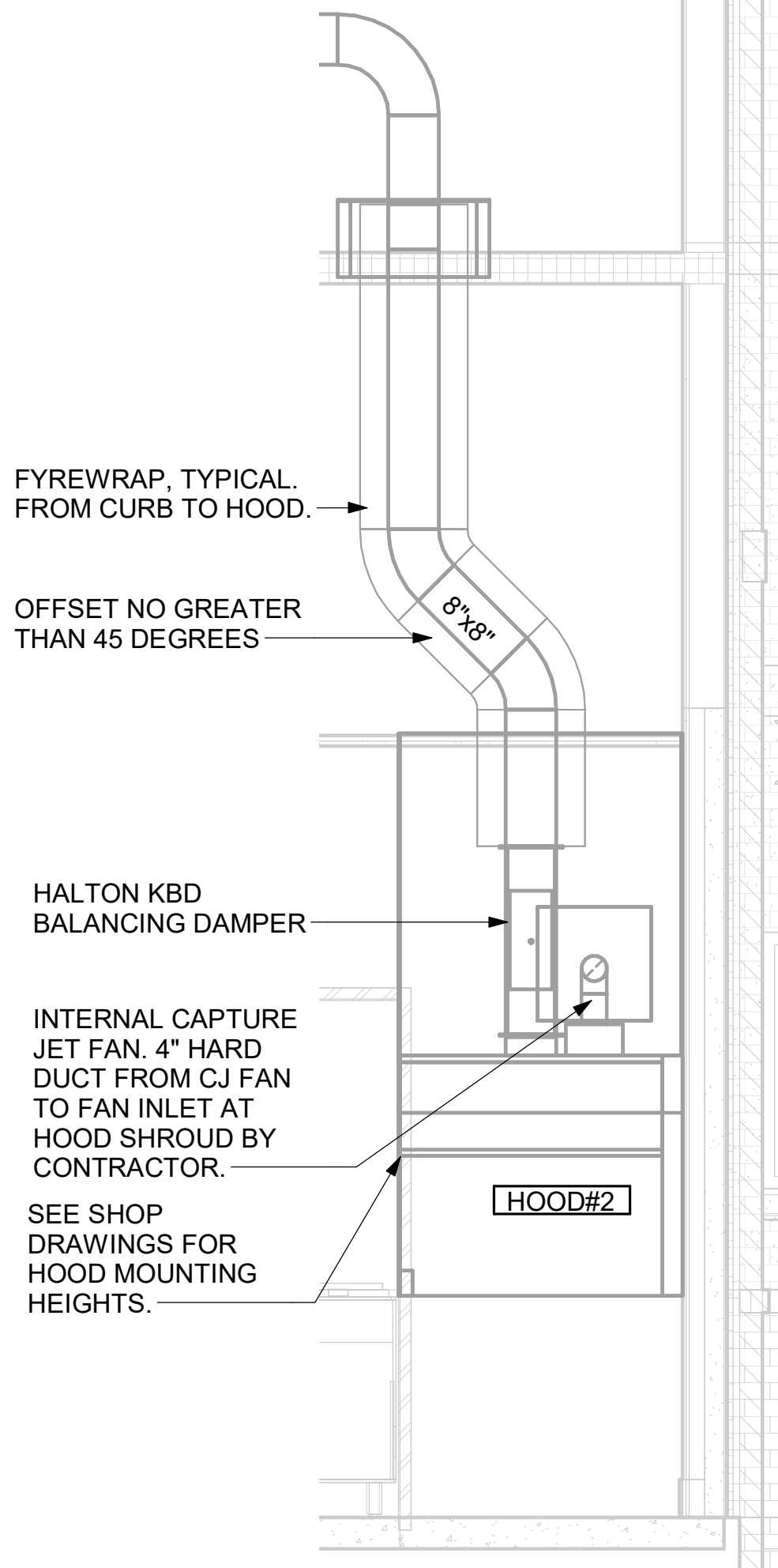
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5/23/2024 8:27:26 AM
30-LE-05562-M-201-EXHAUST HOOD ELEVATIONS

CRITICAL:
MOUNT RIGHT SIDE OF HOOD#3
FLUSH WITH FINISHED EDGE
OF PASS THRU OPENING.



6 HOOD ELEVATION - HOOD#3
NOT TO SCALE

CRITICAL:
MOUNT LEFT SIDE OF HOOD#2
FLUSH WITH FINISHED EDGE
OF PASS THRU OPENING.



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

FYREWRAPI, TYPICAL.
FROM CURB TO HOOD.

HALTON KBD
BALANCING
DAMPER.

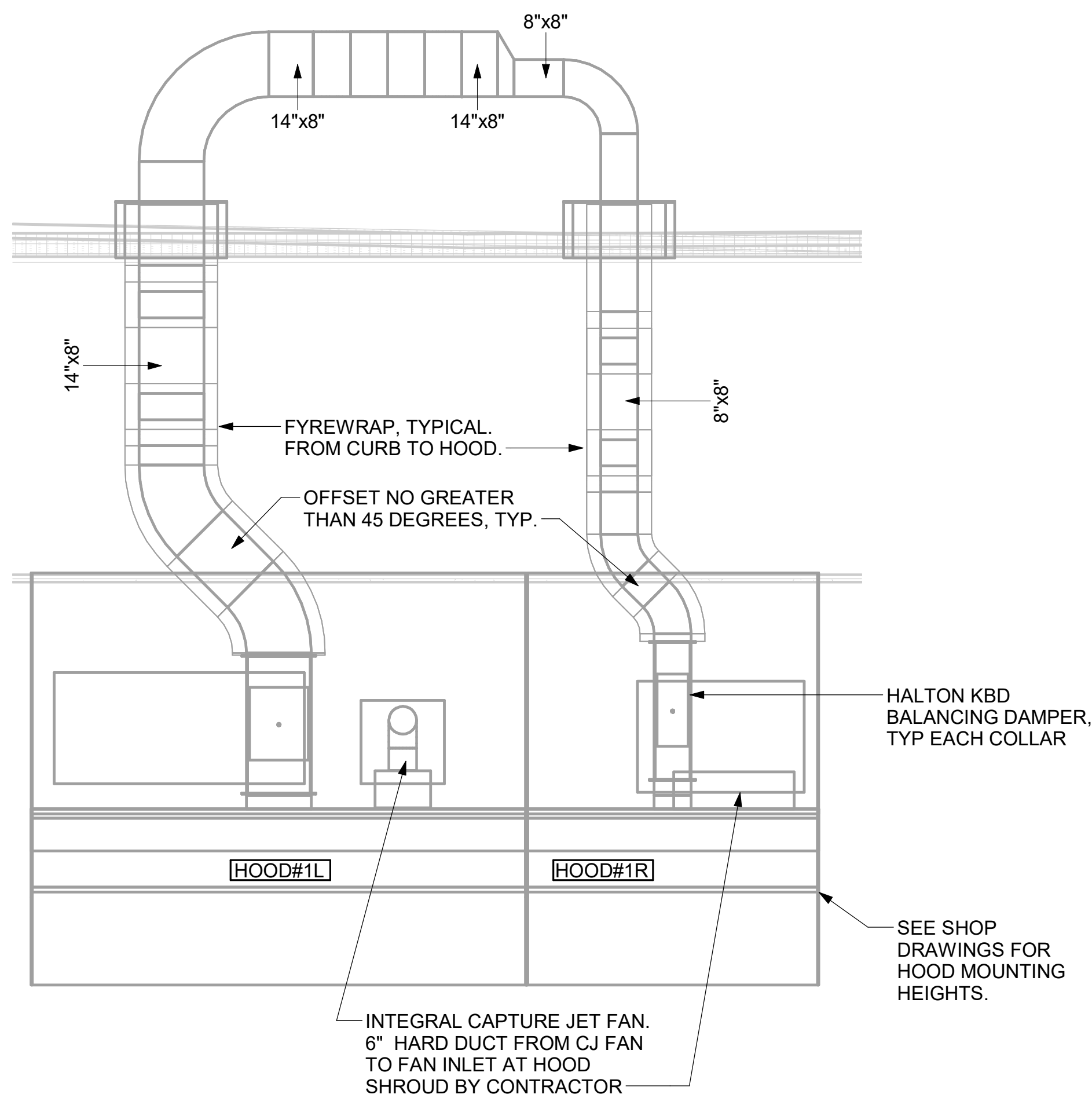
INTEGRAL CAPTURE
JET FAN. 4" HARD
DUCT FROM CJ FAN
TO FAN INLET AT
HOOD SHROUD BY
CONTRACTOR

SEE SHOP
DRAWINGS FOR
HOOD MOUNTING
HEIGHTS.

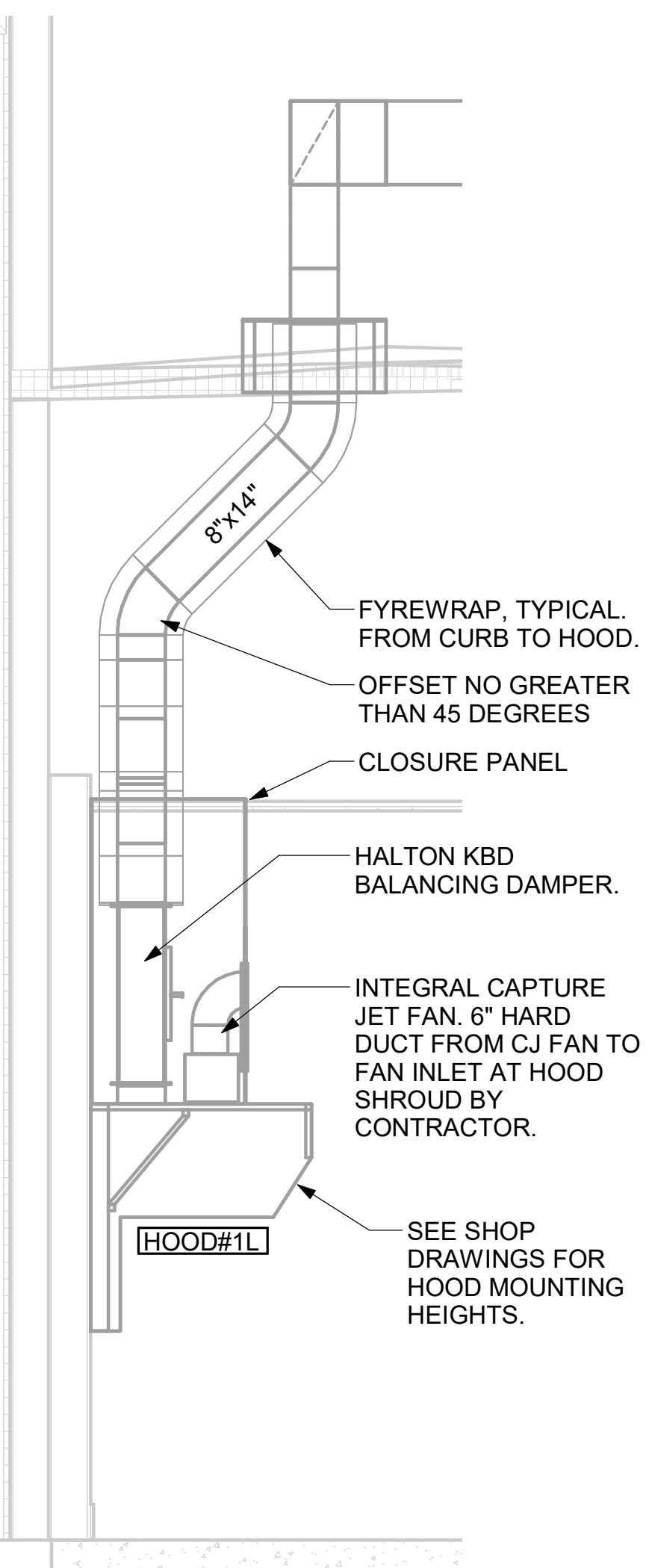
PIN AND SLEEVE
ELECTRICAL BOX
BY OTHERS.

10' - 2"
CEILING
HEIGHT
TYP.

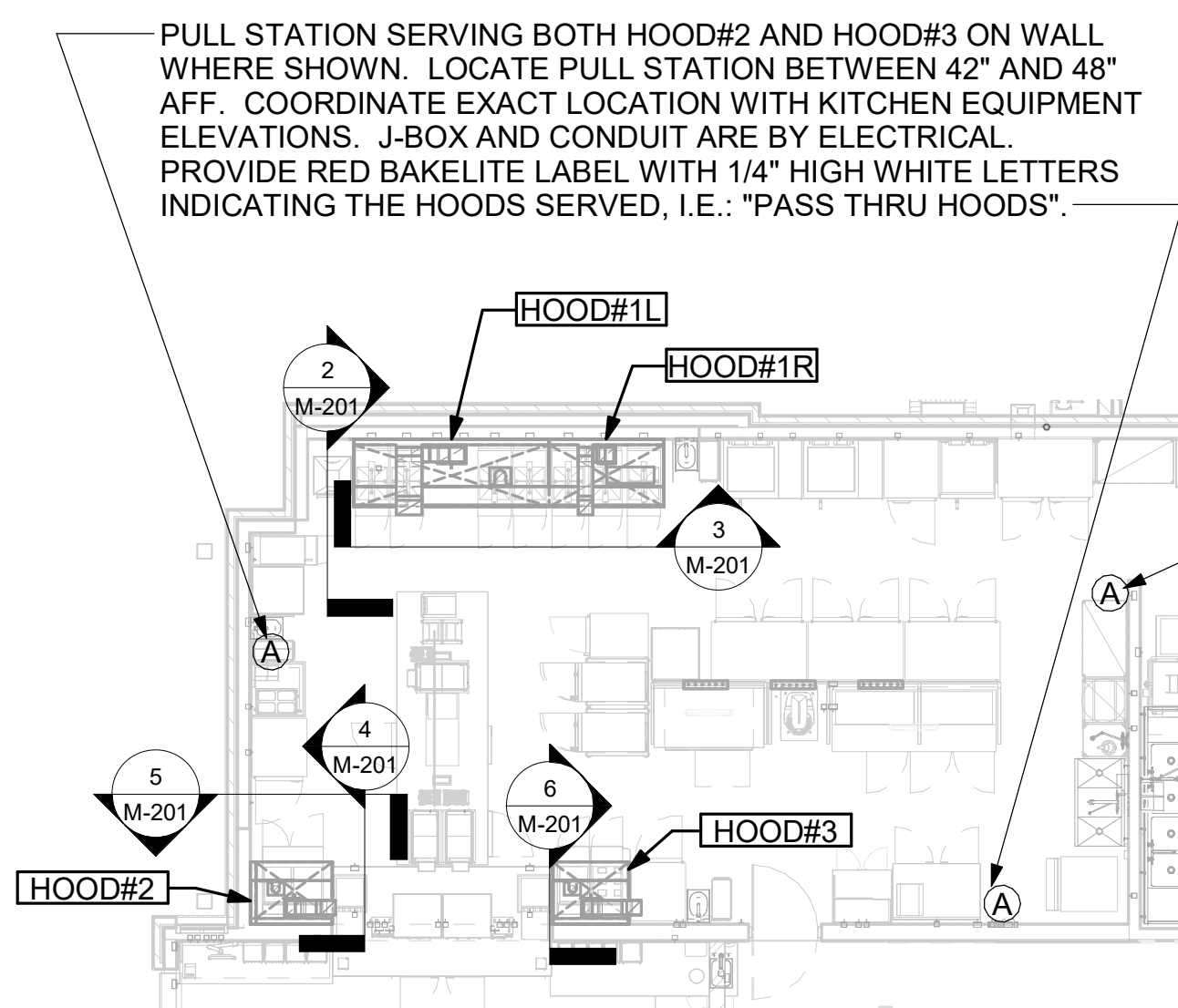
4 HOOD ELEVATION - HOOD#2 - SIDE
NOT TO SCALE



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



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



1 HOOD LAYOUT
1/8" = 1'-0"

PULL STATION SERVING HOOD#1. LOCATE
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 1/4"
HIGH WHITE LETTERS INDICATING THE
HOODS SERVED, I.E.: "MAIN COOKLINE
HOOD".

GREASE EXHAUST DUCT CLEARANCE NOTE:

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

CLEANOUT DOOR NOTE:

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

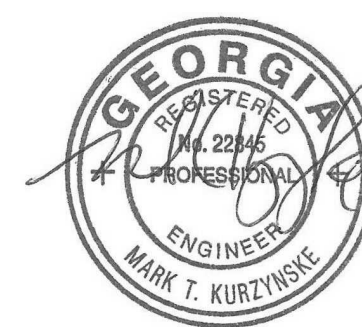


Chick-fil-A

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05/22/24

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Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LC.S
RELEASE: 23.11
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CONSTRUCTION
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT #	24024.CC.S
DATE	02/19/2024
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SHEET
EXHAUST HOOD
ELEVATIONS

SHEET NUMBER

M-201

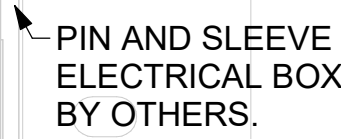
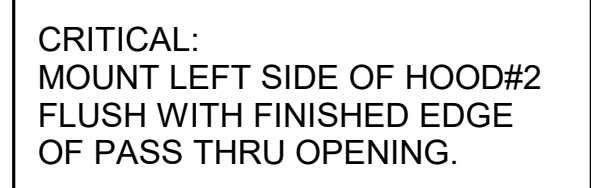
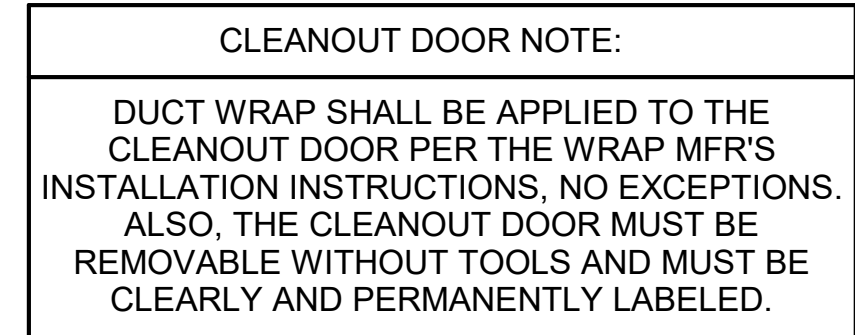


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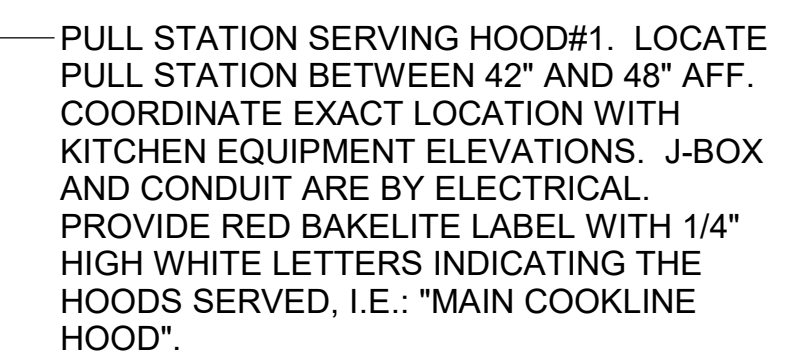
BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
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REVISION SCHEDULE

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION</u>
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M-201

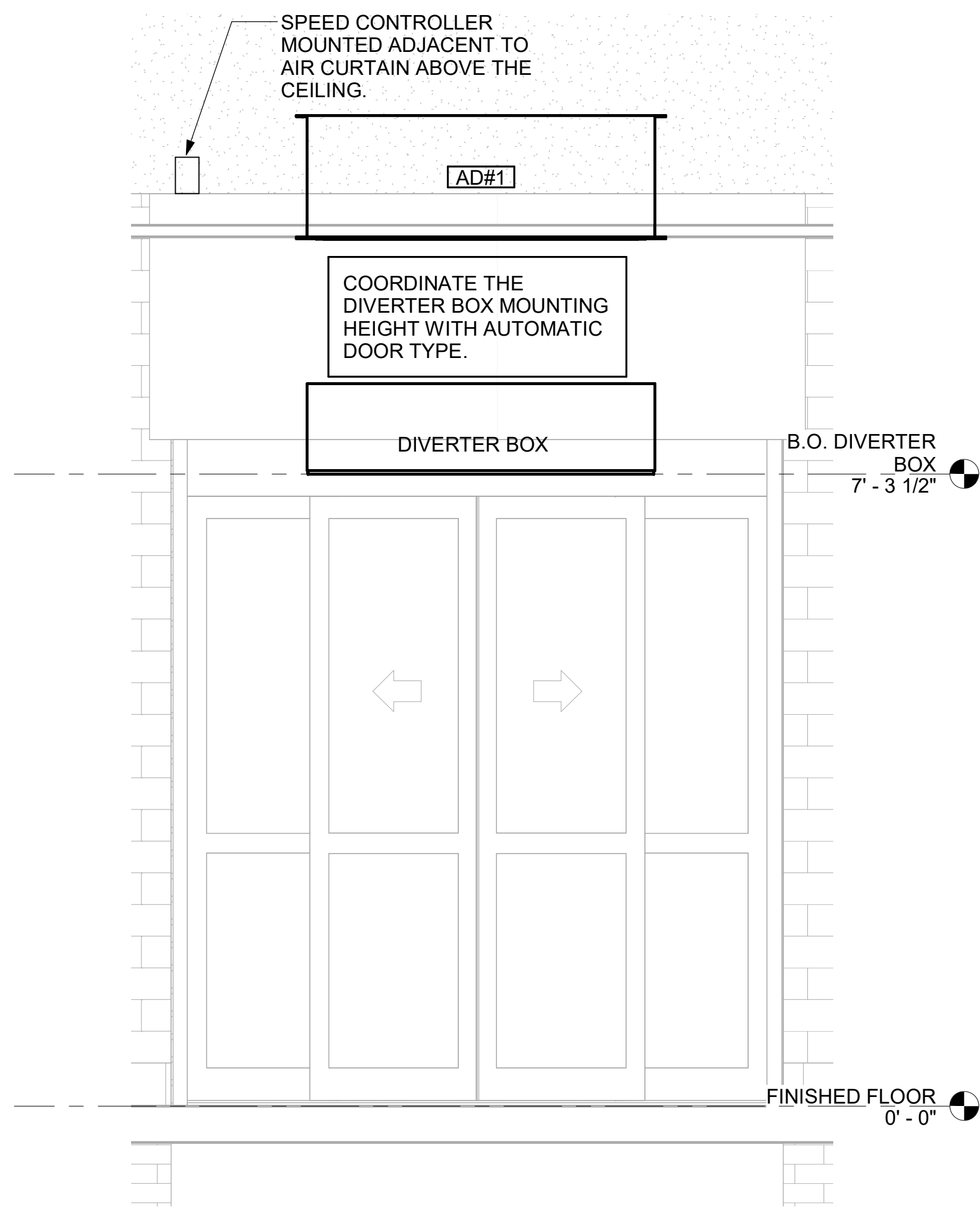


4 HOOD ELEVATION - HOOD#2 - SIDE
NOT TO SCALE

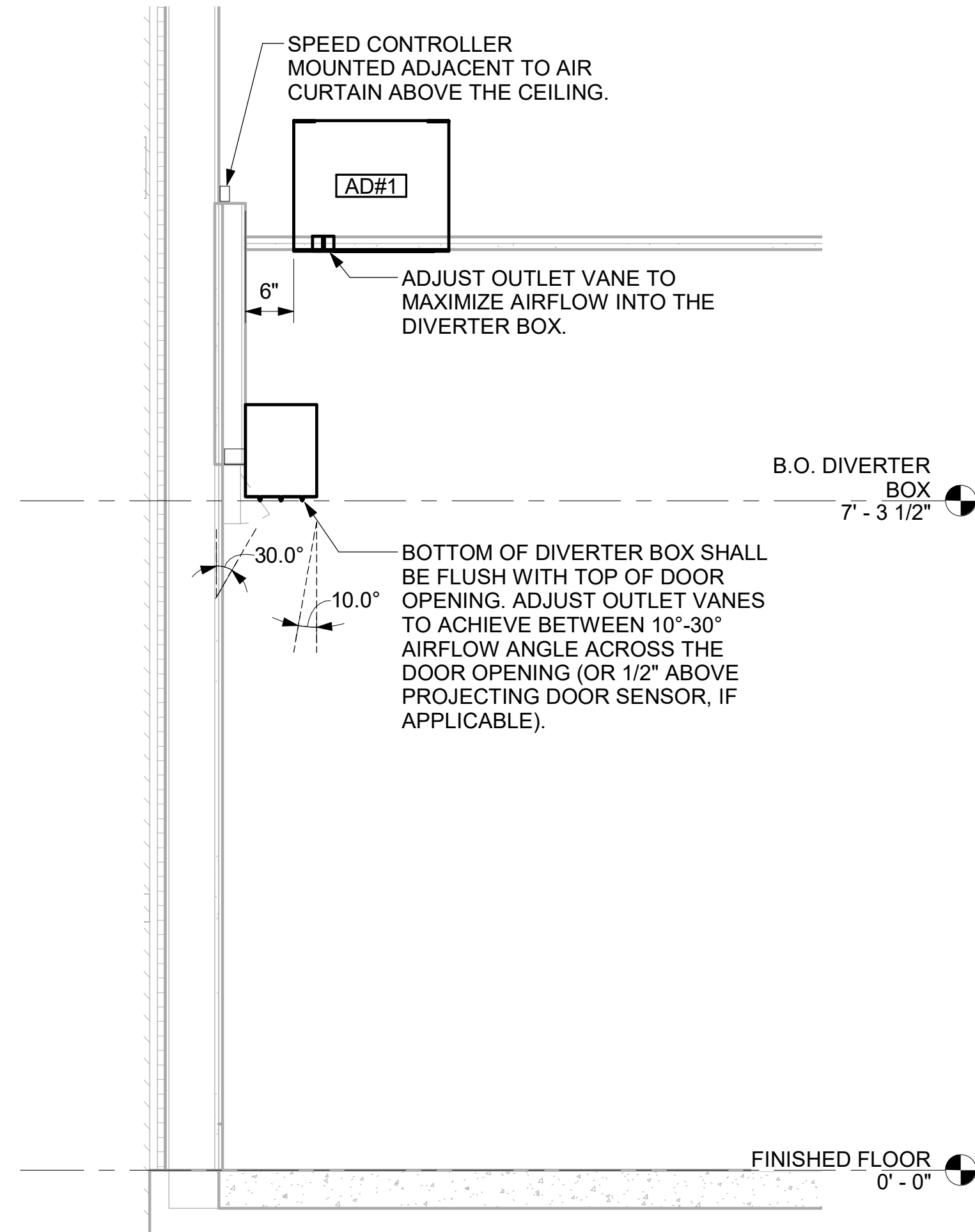


1 HOOD LAYOUT

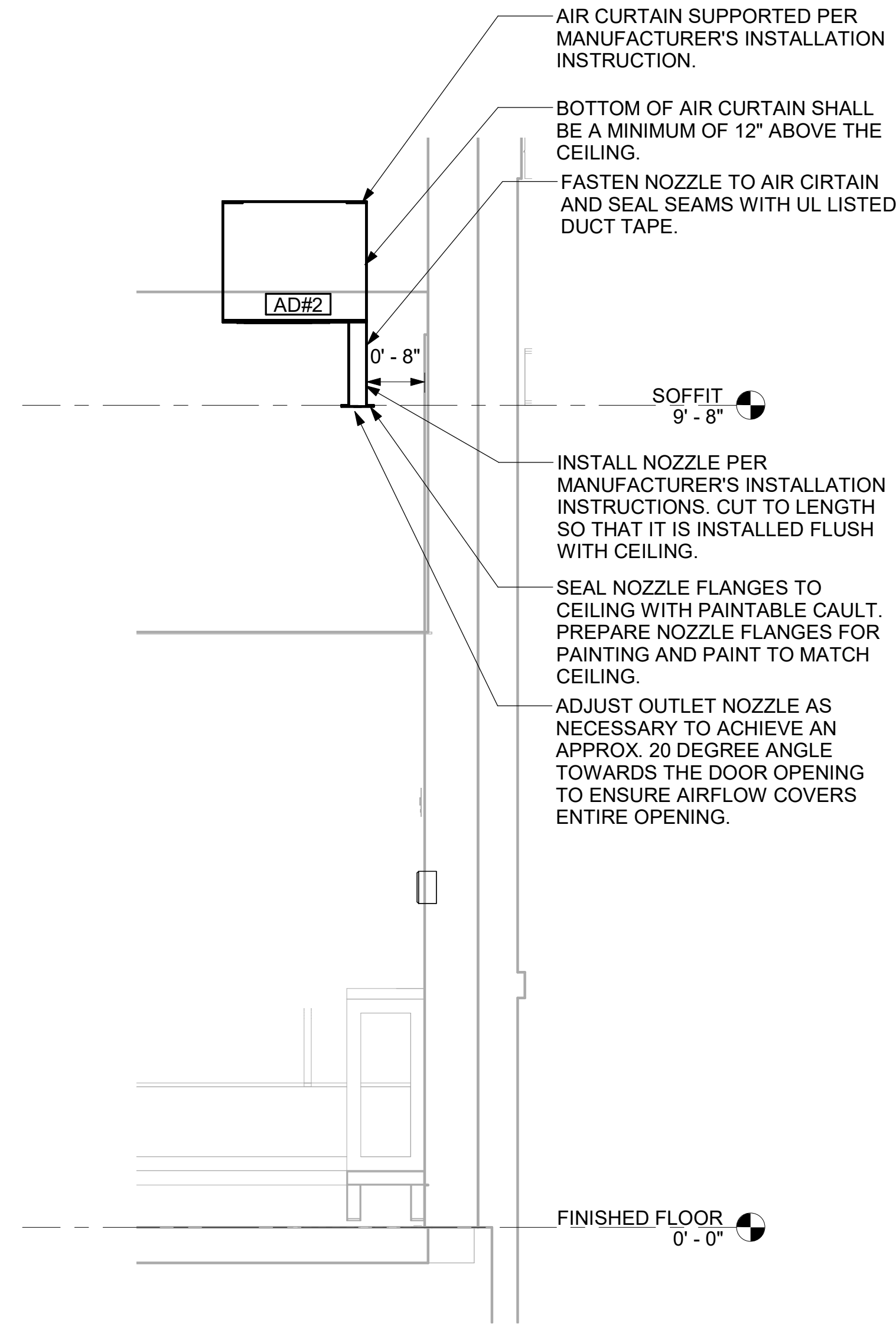
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30-LE-05562-M-301-SECTIONS



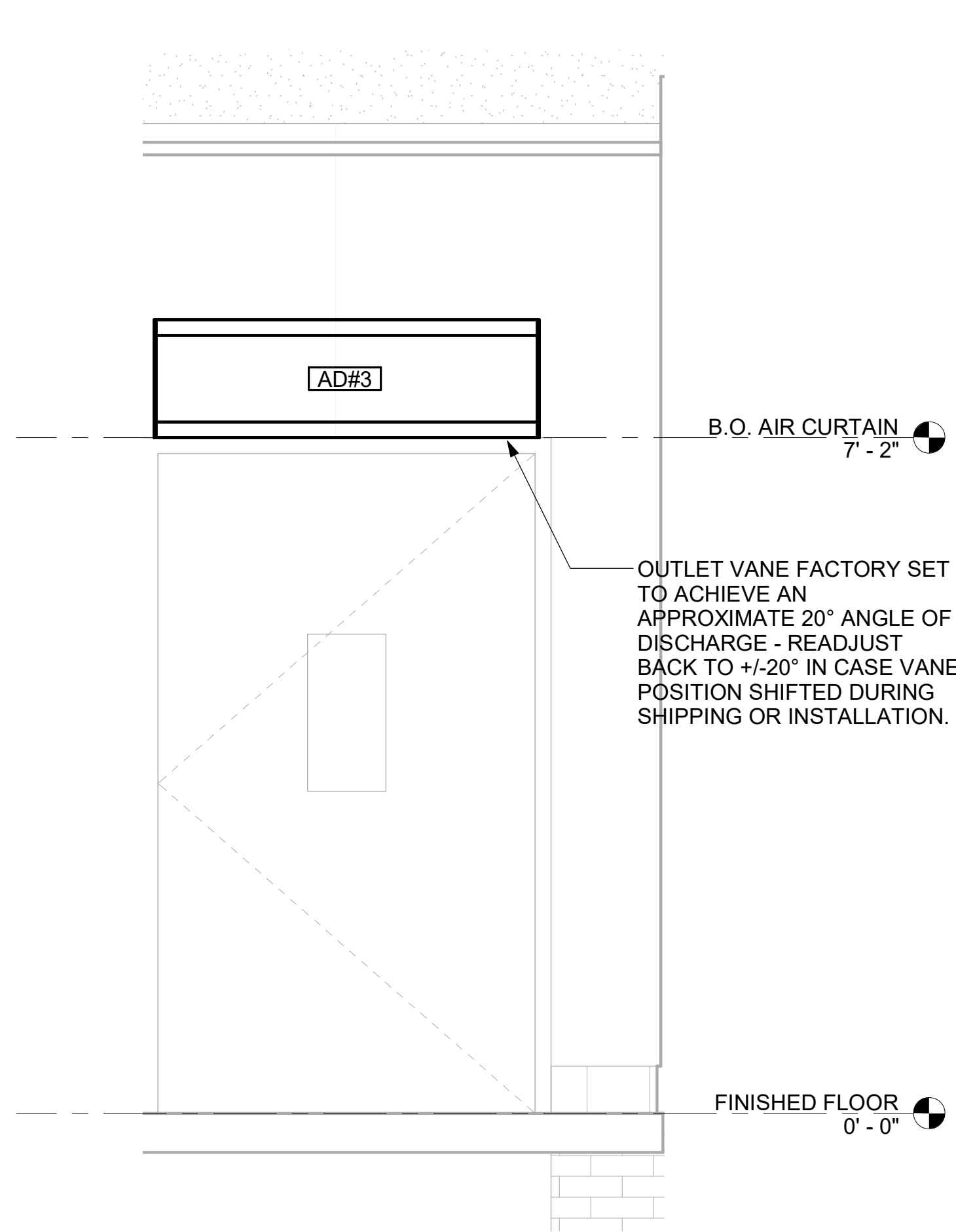
2 AD#1 FRONT VIEW
3/4" = 1'-0"



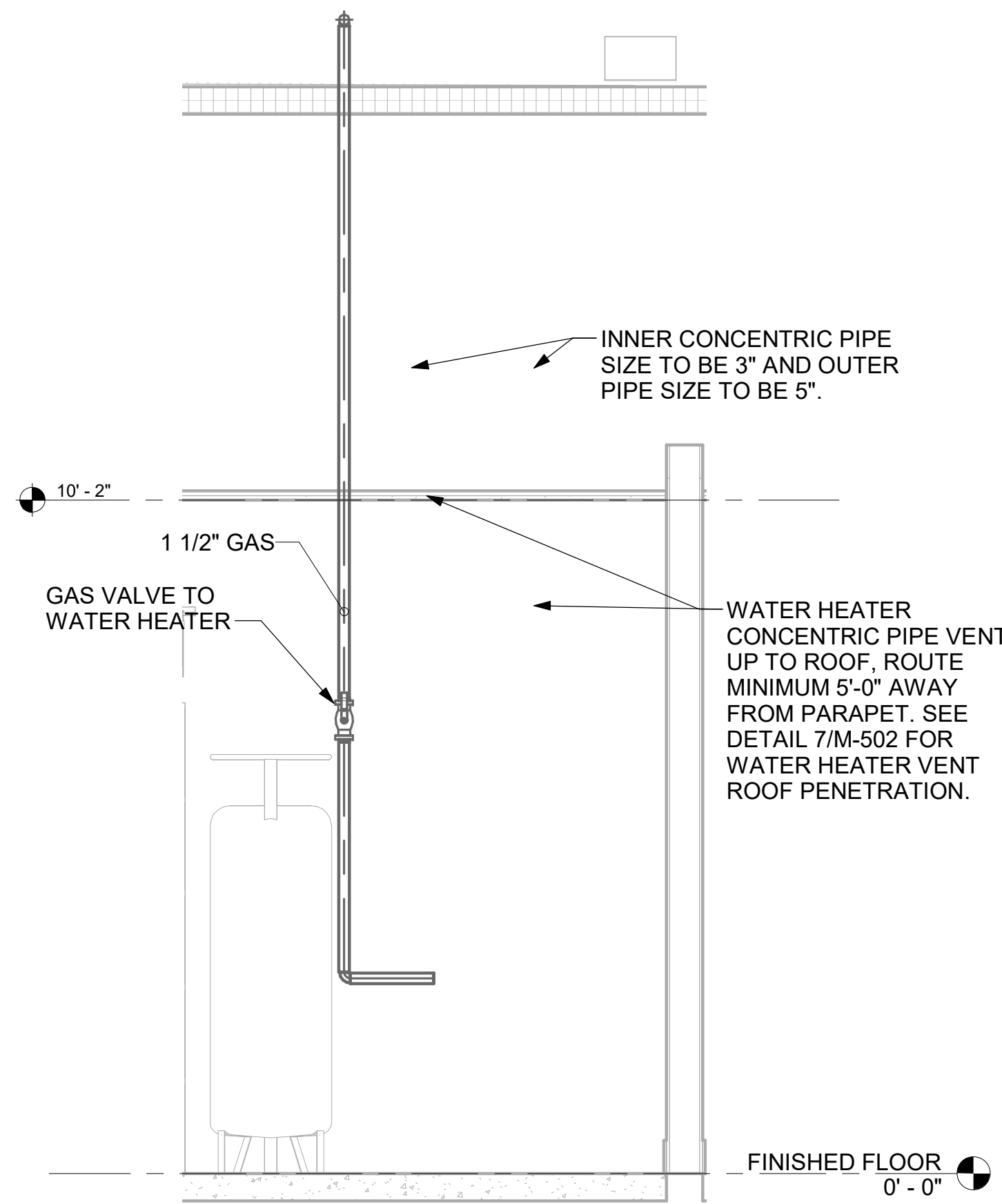
3 AD#1 SIDE VIEW
3/4" = 1'-0"



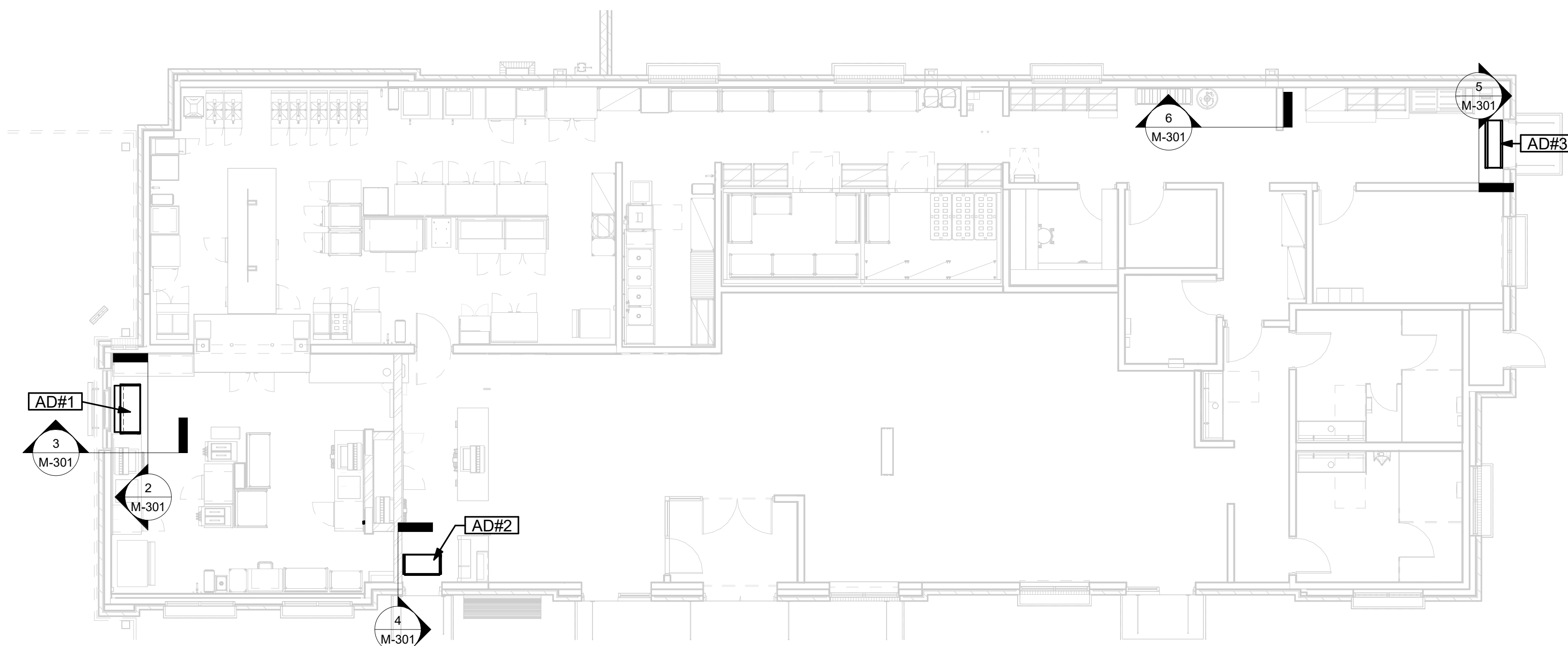
4 AD#2 SIDE VIEW
3/4" = 1'-0"



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



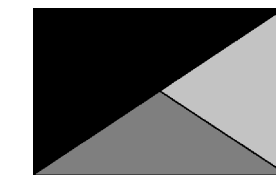
6 WATER HEATER GAS PIPING AND VENTING
NOT TO SCALE



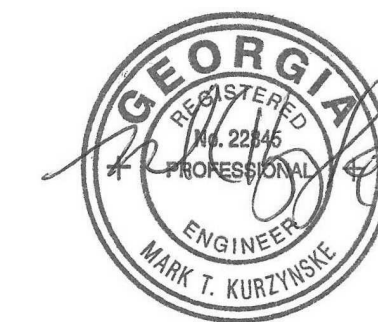
1 VARIOUS SECTIONS
1/8" = 1'-0"



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05/22/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
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CONSULTANT PROJECT #	24024.CC.S
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SECTIONS

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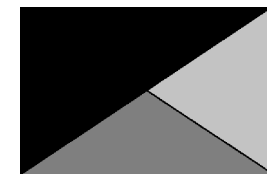
M-301

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Snellville, GA 30039

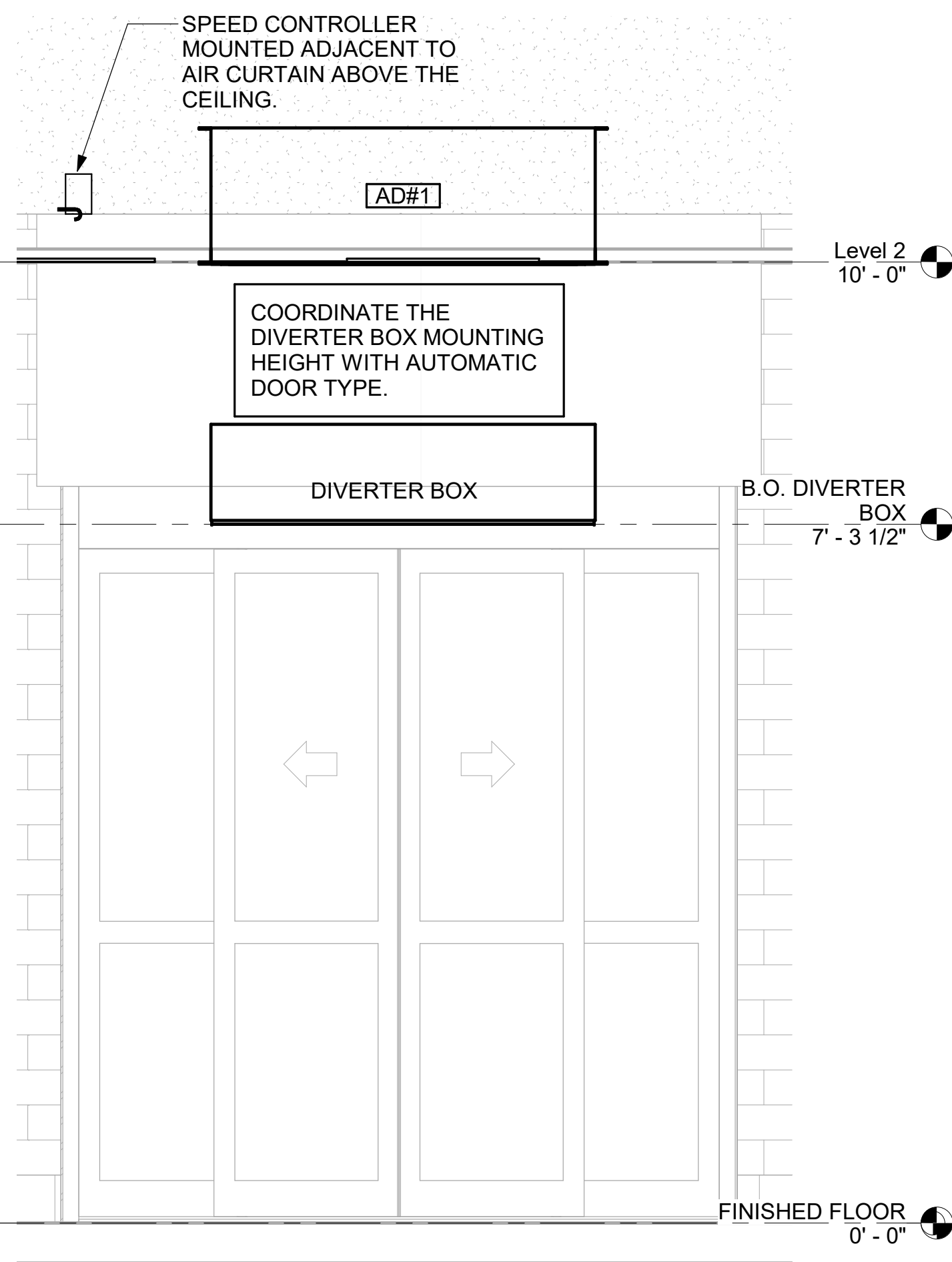
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BUILDING TYPE / SIZE: P14 LE BN
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REVISION SCHEDULE
NO. DATE DESCRIPTION

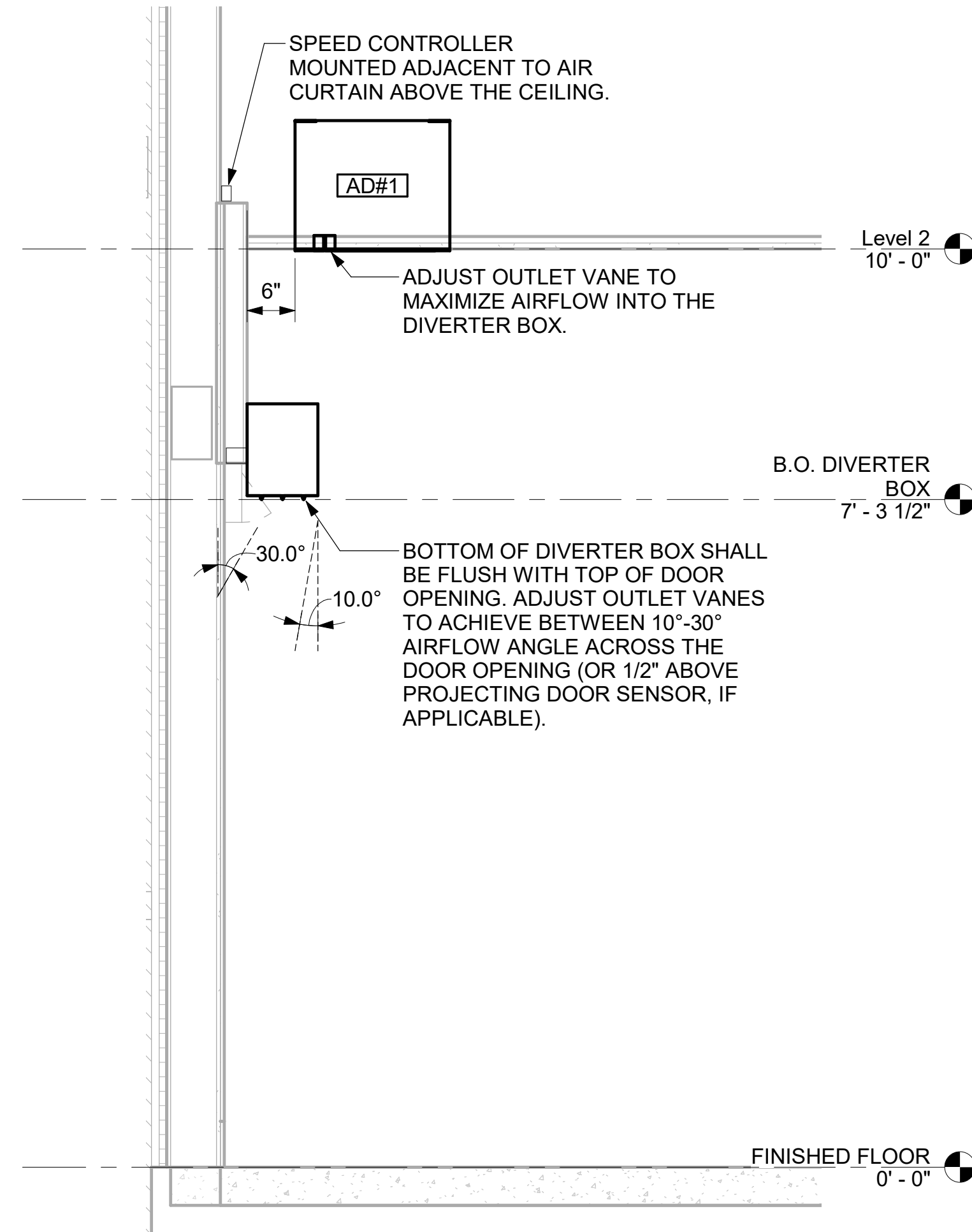
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DATE 02/19/2024
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SHEET
SECTIONS

SHEET NUMBER

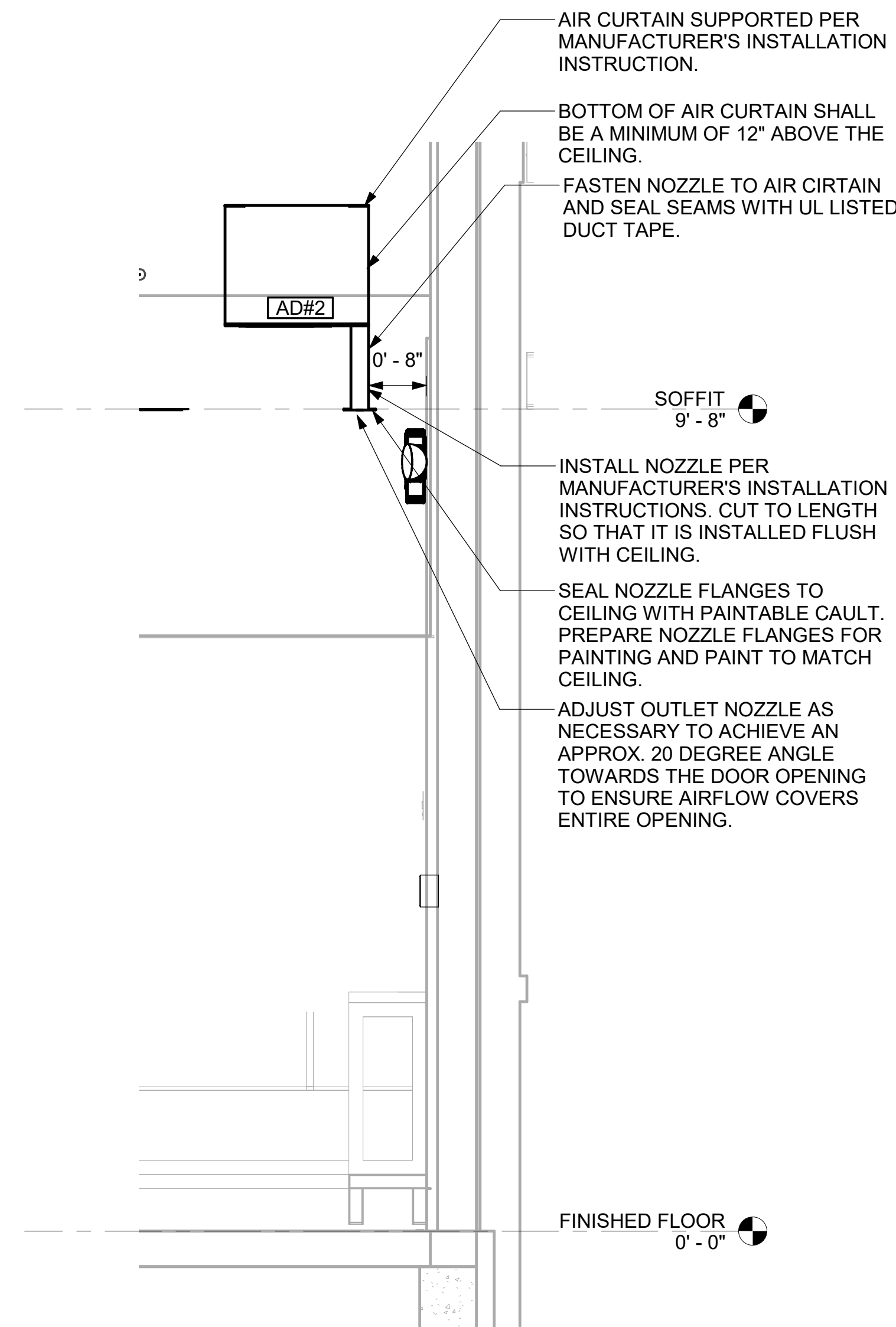
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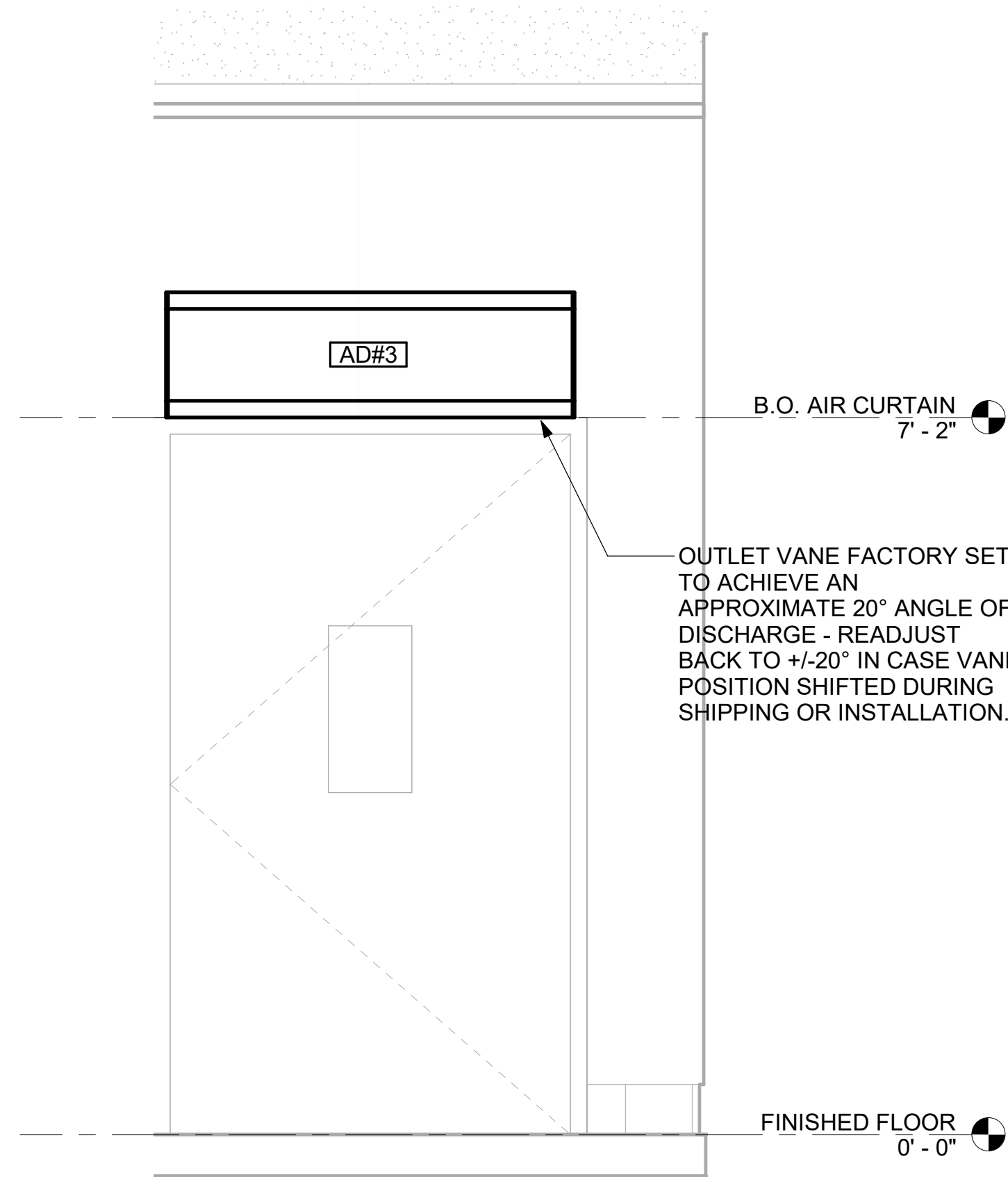
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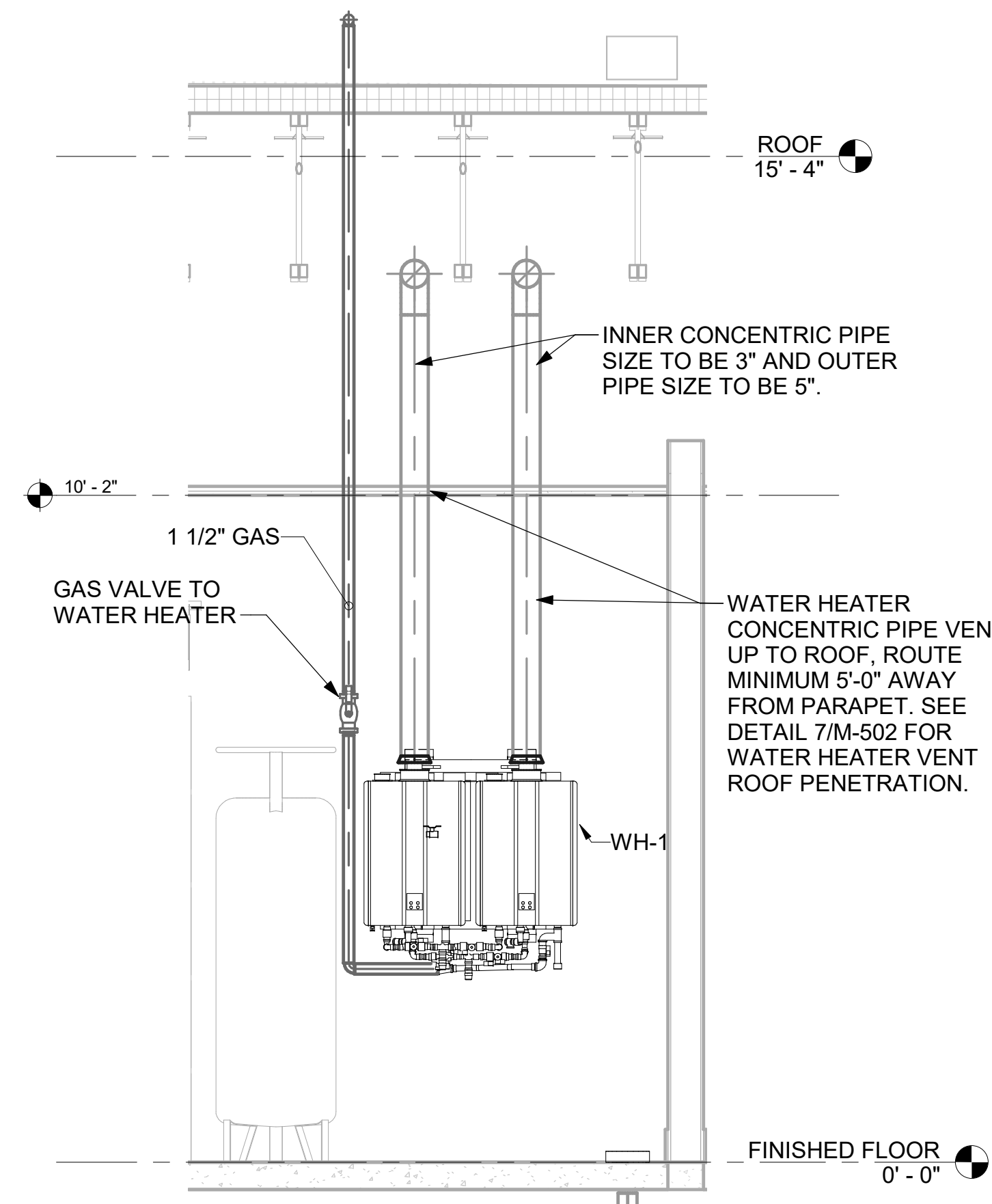
3 AD#1 SIDE VIEW
3/4" = 1'-0"



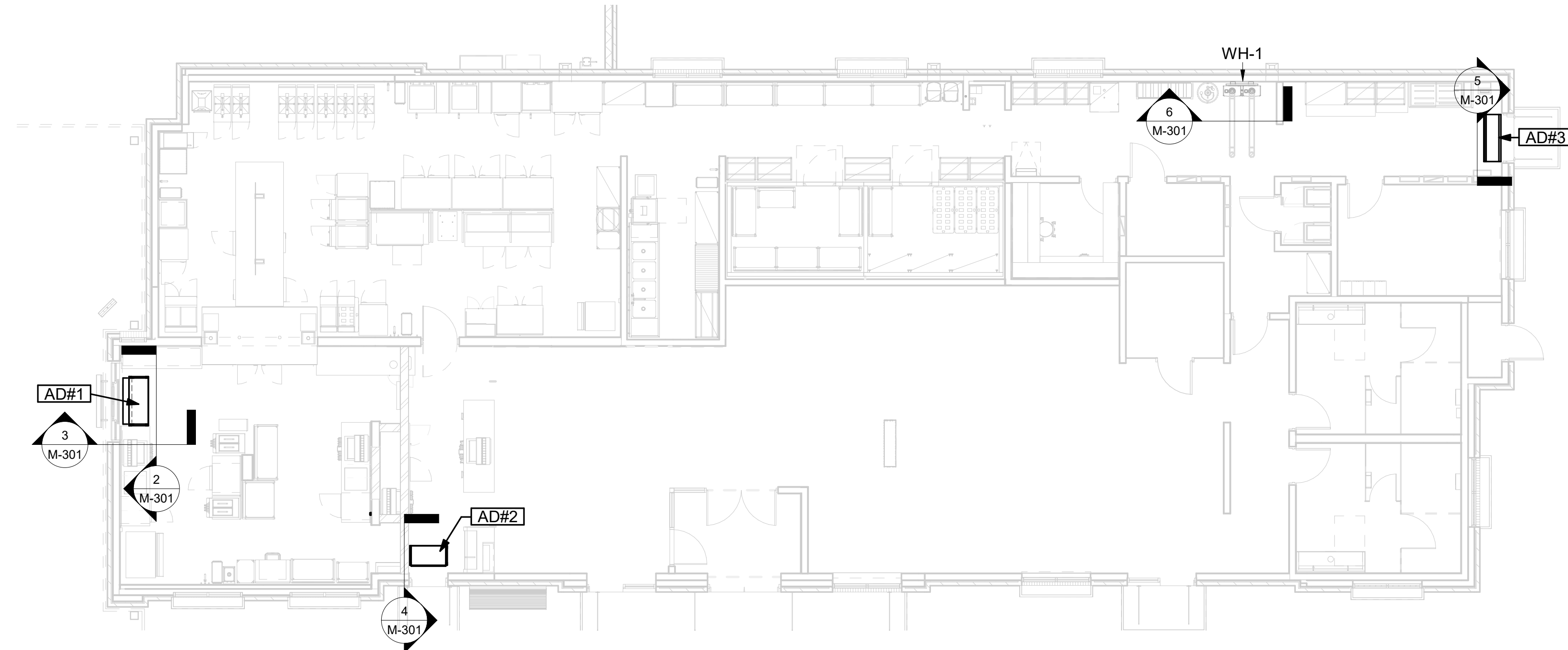
4 AD#2 SIDE VIEW
3/4" = 1'-0"



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



6 WATER HEATER GAS PIPING AND VENTING
NOT TO SCALE



1 VARIOUS SECTIONS
1/8" = 1'-0"

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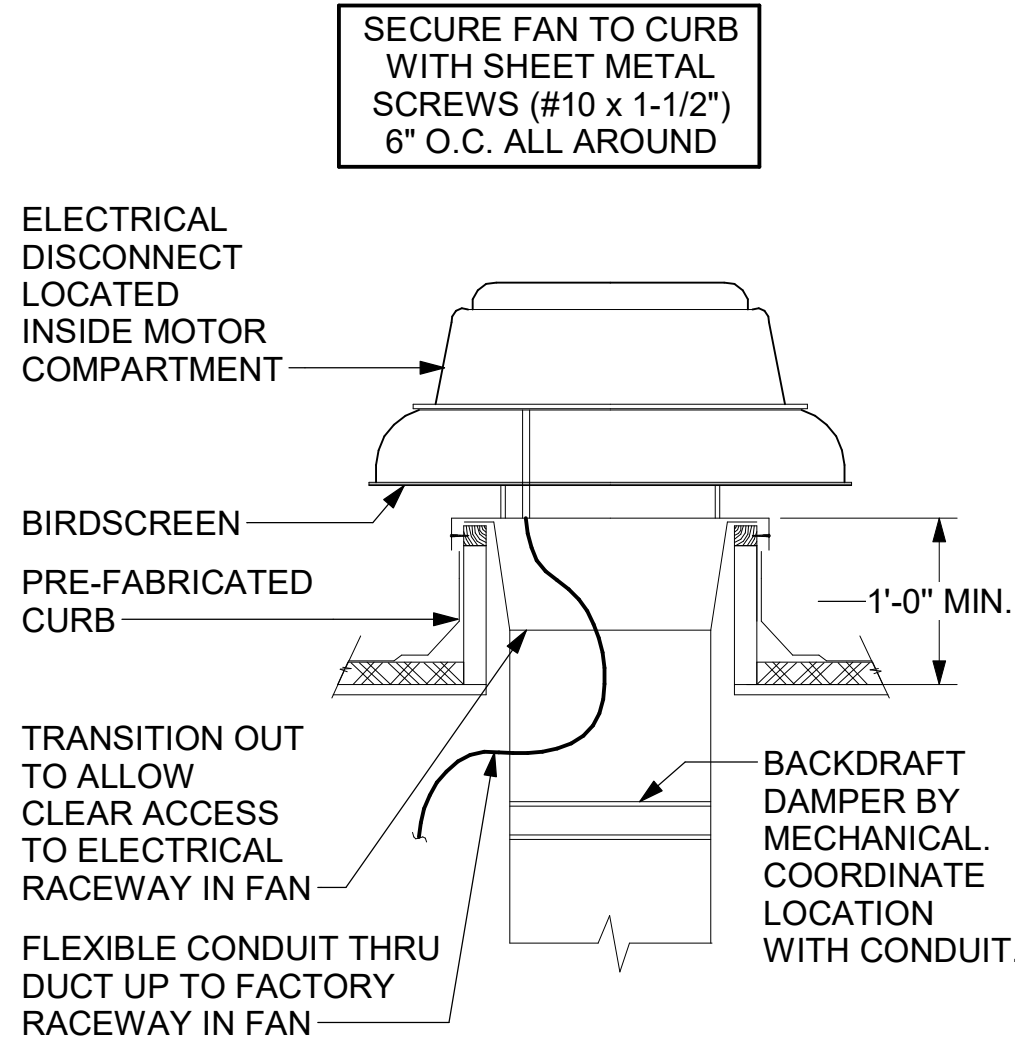
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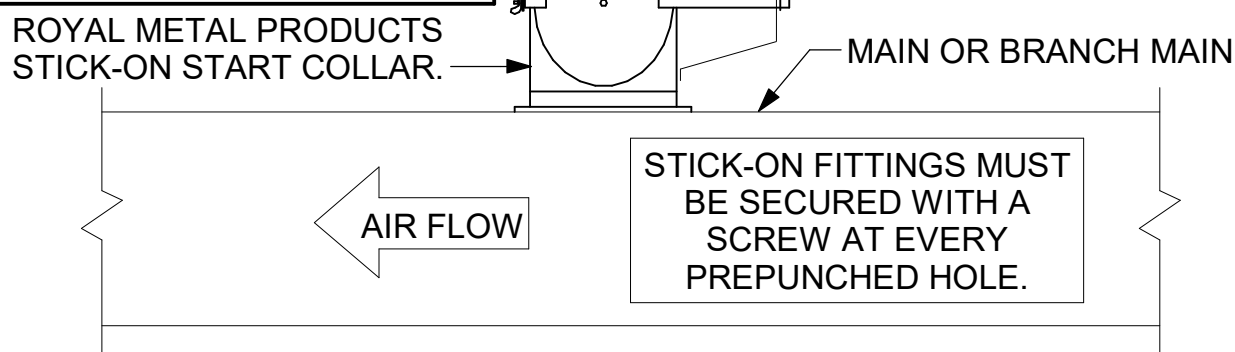
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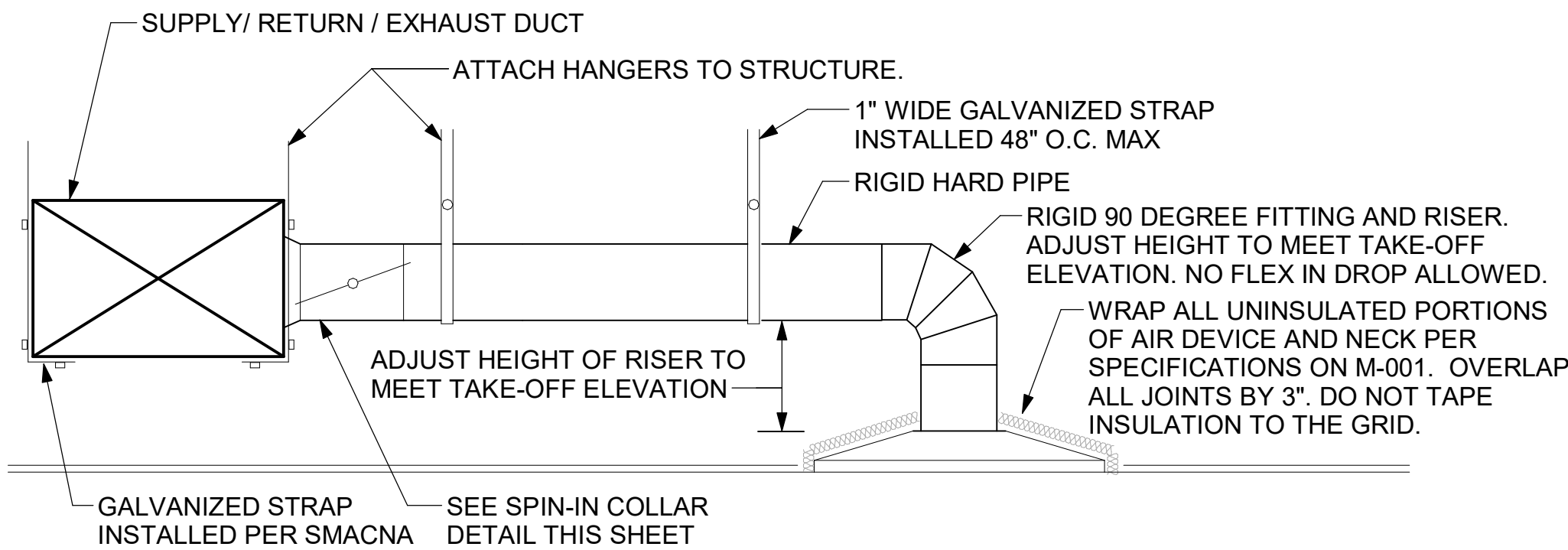
3 RESTROOM EXHAUST FAN
NOT TO SCALE

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

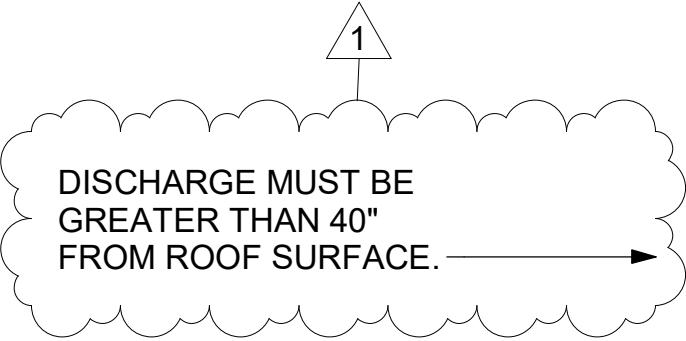
DAMPER CONTROL HANDLE MUST BE EXPOSED, AND DAMPER SHAFT MUST ALWAYS BE PARALLEL TO AIRFLOW IN DUCT MAIN. AS AN EXAMPLE, FOR HORIZONTAL TRUNK DUCT, HANDLE MUST BE LOCATED ON THE LEFT OR RIGHT (9 OR 3 O'CLOCK) OF COLLAR, AND FOR VERTICAL TRUNK DUCT, LOCATED ON THE BOTTOM (6 O'CLOCK) OF COLLAR. DAMPER CONTROL HANDLES NOT INSTALLED IN THE CORRECT ORIENTATION, AS SPECIFIED ABOVE, WILL NOT BE ACCEPTED. ATTACH YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST BE 12" LONG AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.



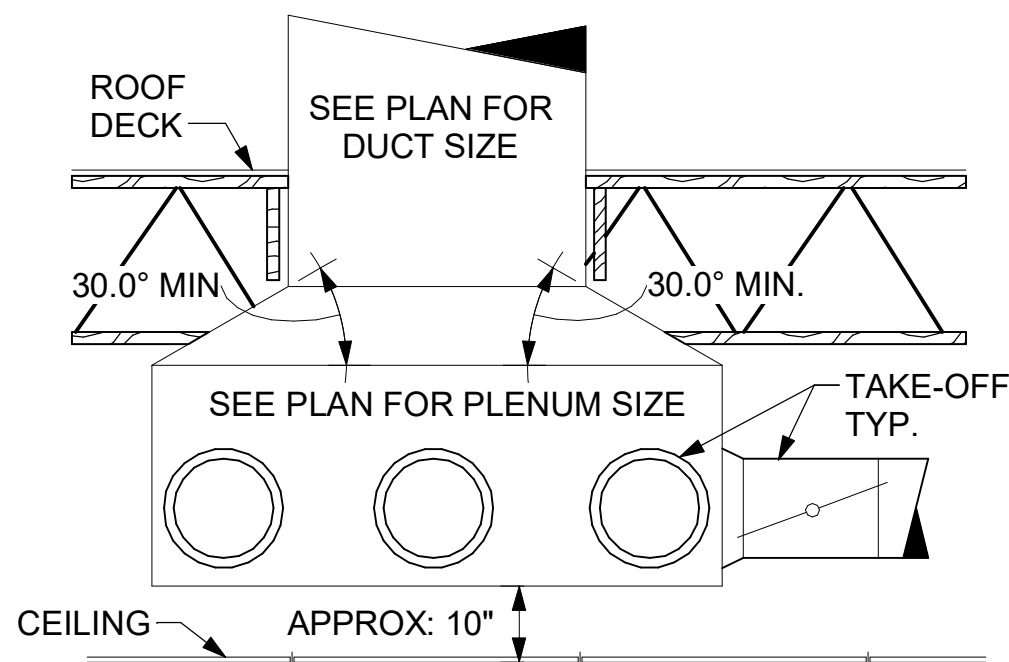
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1 SAG/RAG/GRILLE TAKE-OFF
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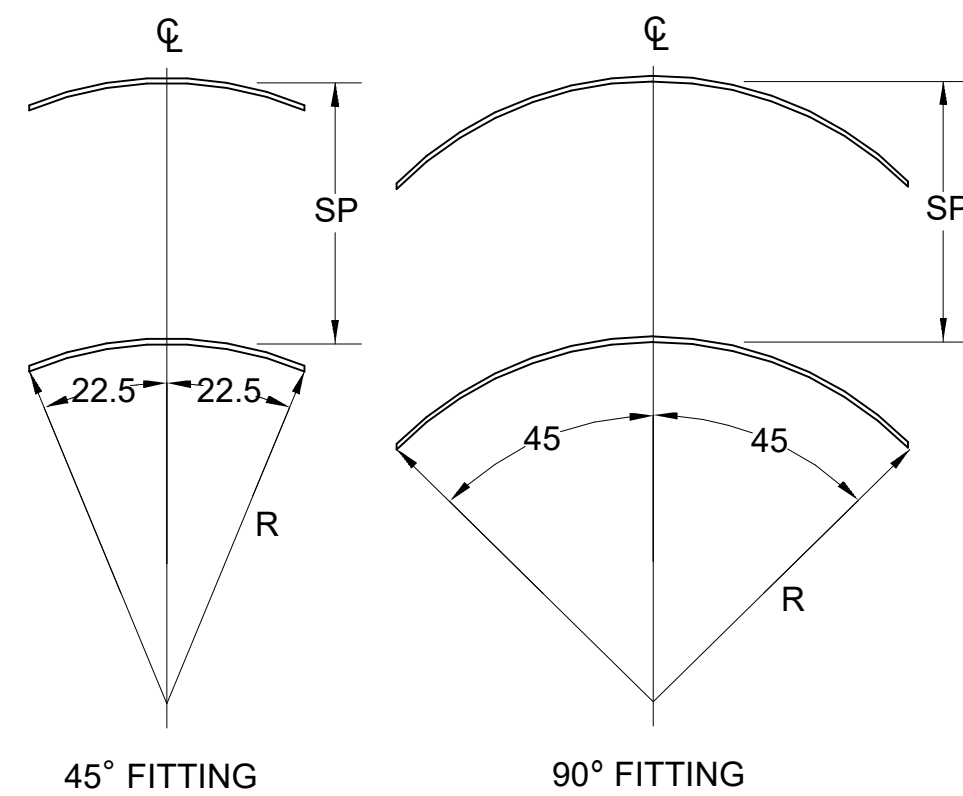


6 KITCHEN HOOD EXHAUST FAN
NOT TO SCALE



5 RETURN DROP GEOMETRY
NOT TO SCALE

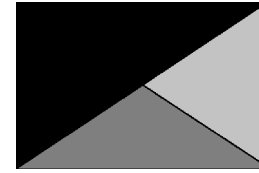
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R	SP	GA
2"	1.5"	24
1. NO TRAILING EDGE. 2. SINGLE THICKNESS CONSTRUCTION.		



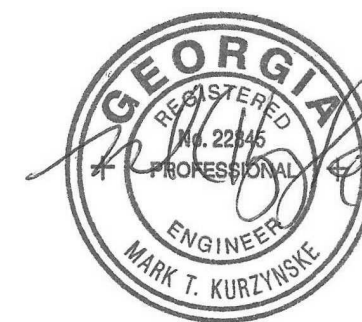
4 TURNING VANES
NOT TO SCALE



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& Associates**
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CONSULTANT PROJECT # 24024.CC.S
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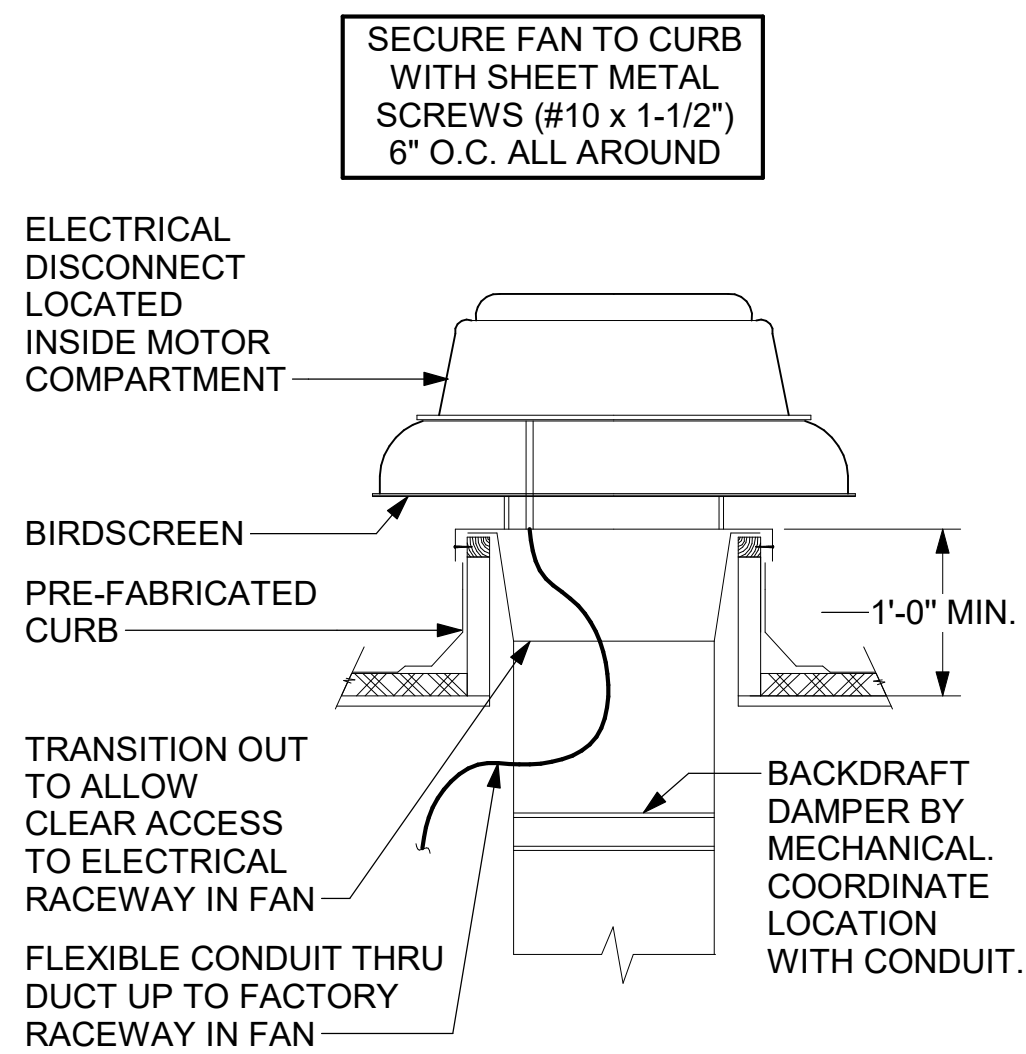
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DETAILS

SHEET NUMBER

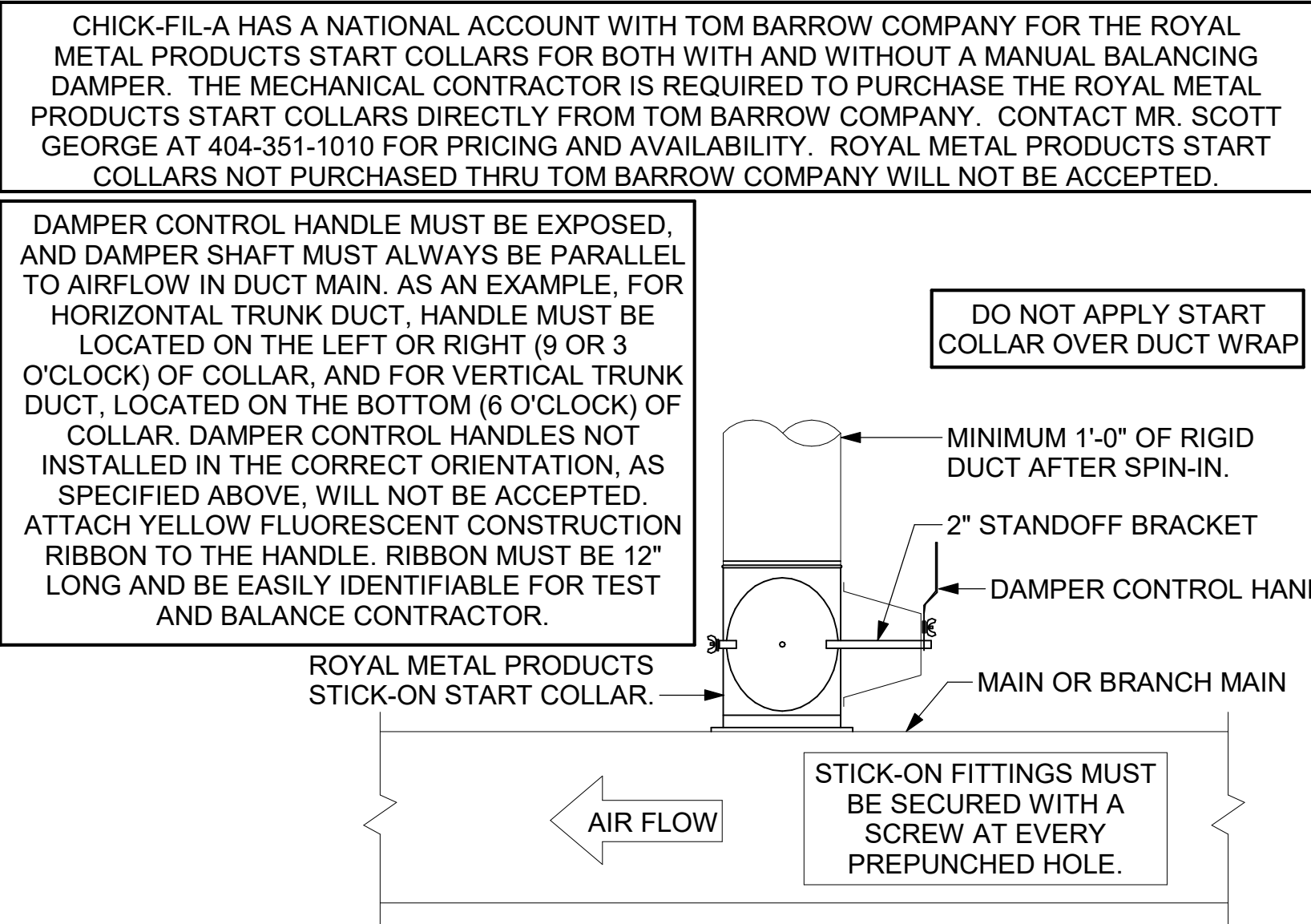
M-501

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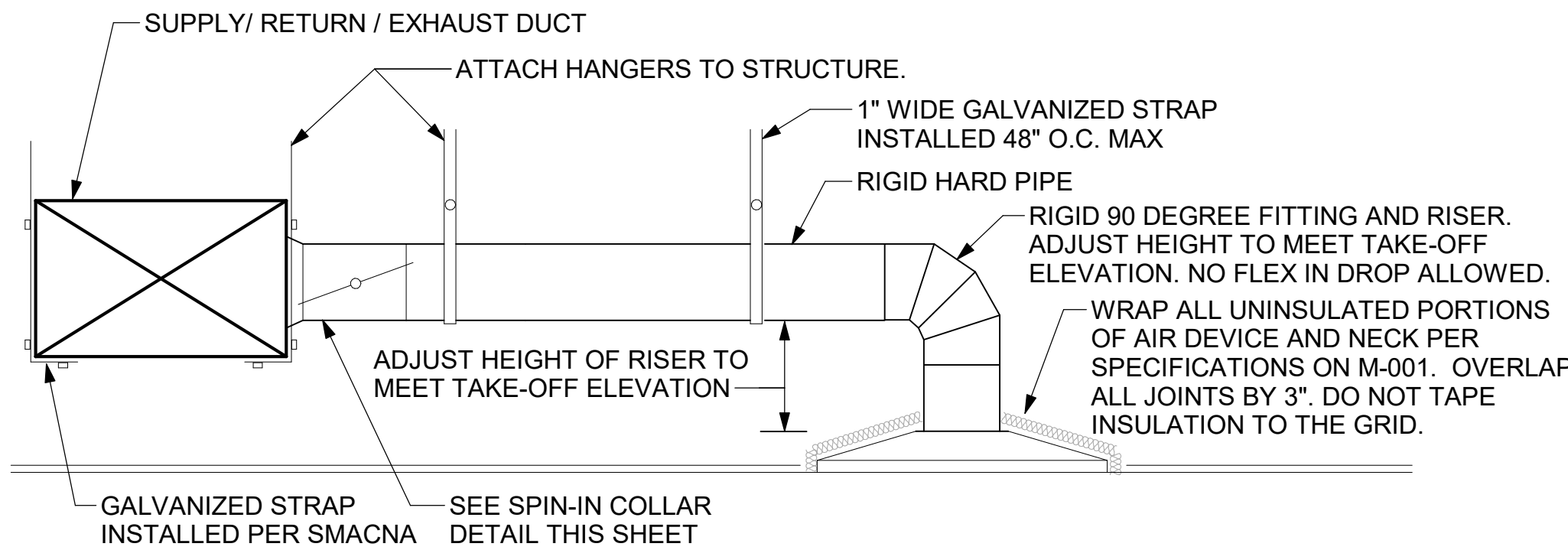
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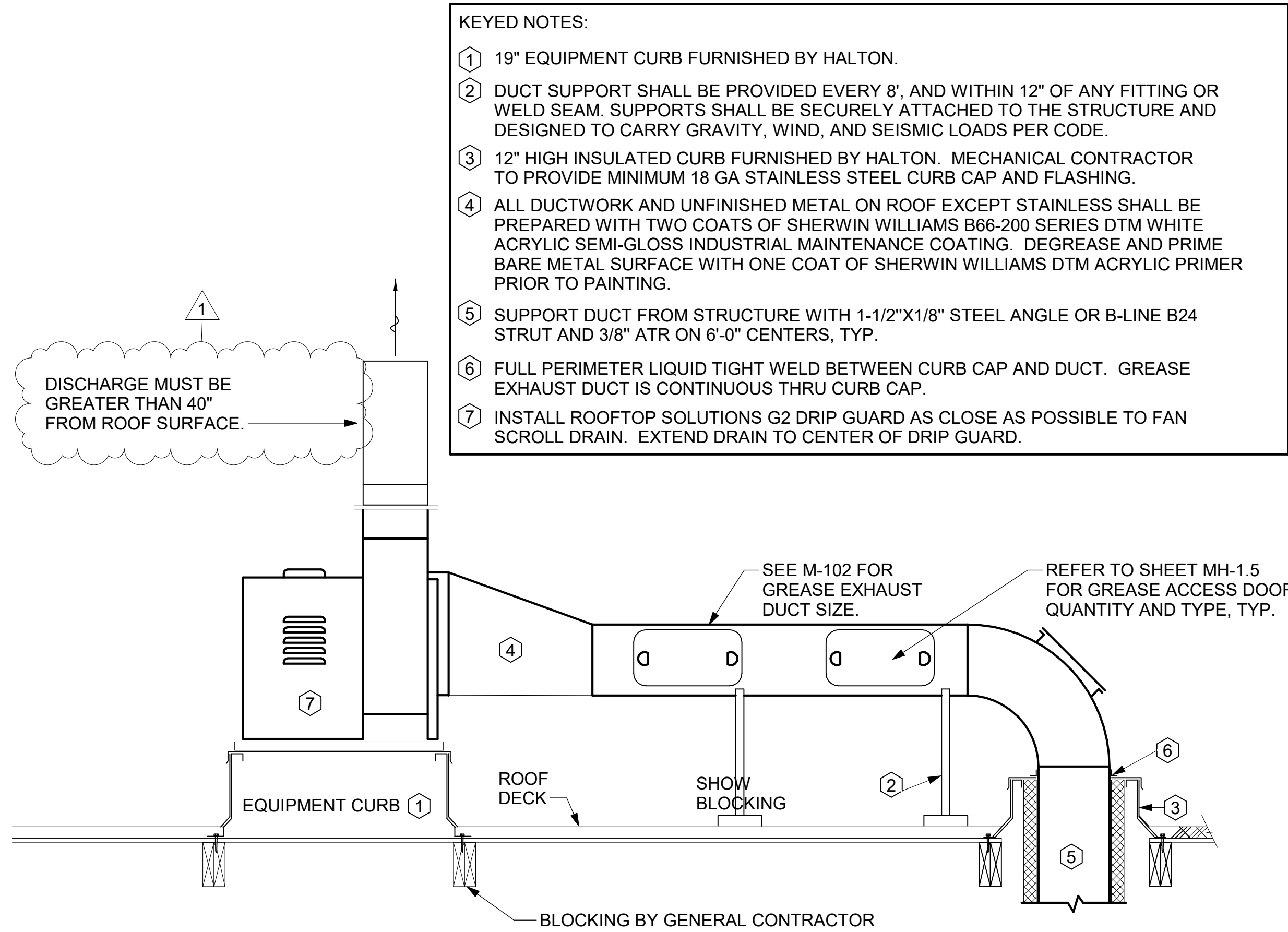
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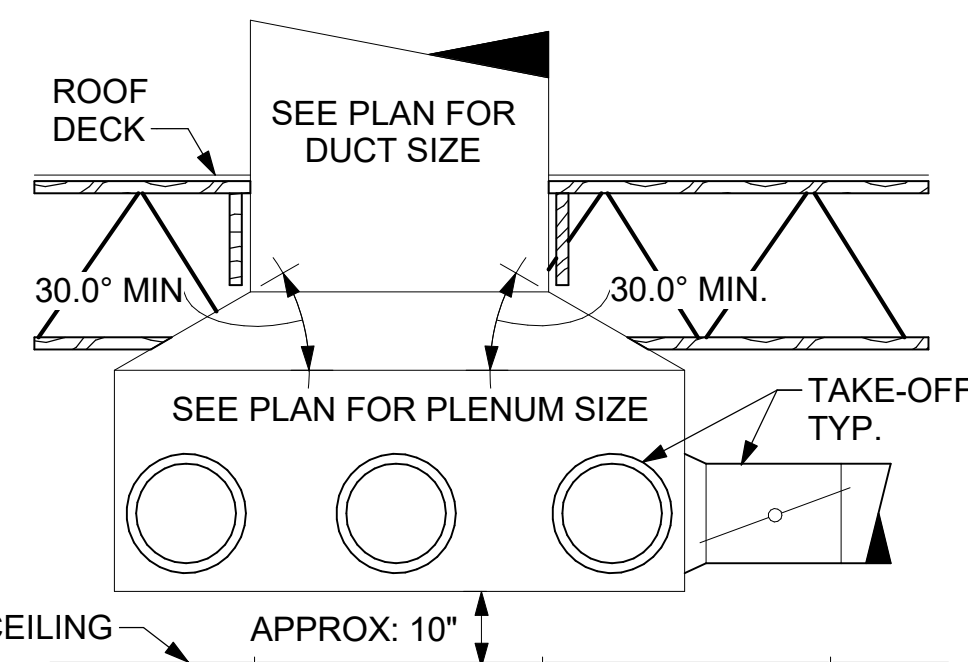
2 START COLLAR
NOT TO SCALE



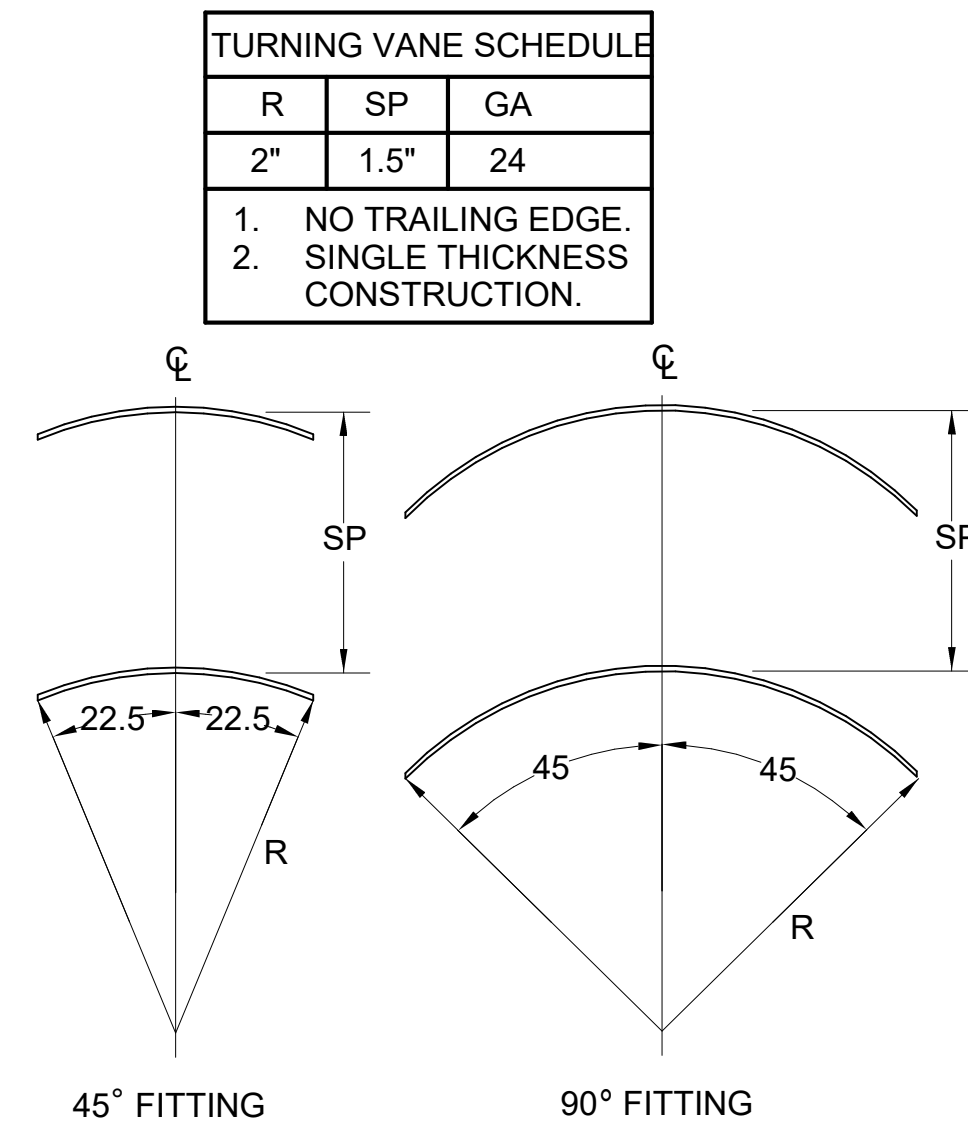
1 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE



6 KITCHEN HOOD EXHAUST FAN
NOT TO SCALE



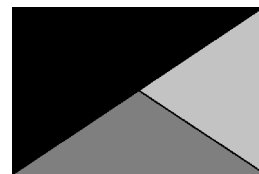
5 RETURN DROP GEOMETRY
NOT TO SCALE



4 TURNING VANES
NOT TO SCALE



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Snellville, GA 30039

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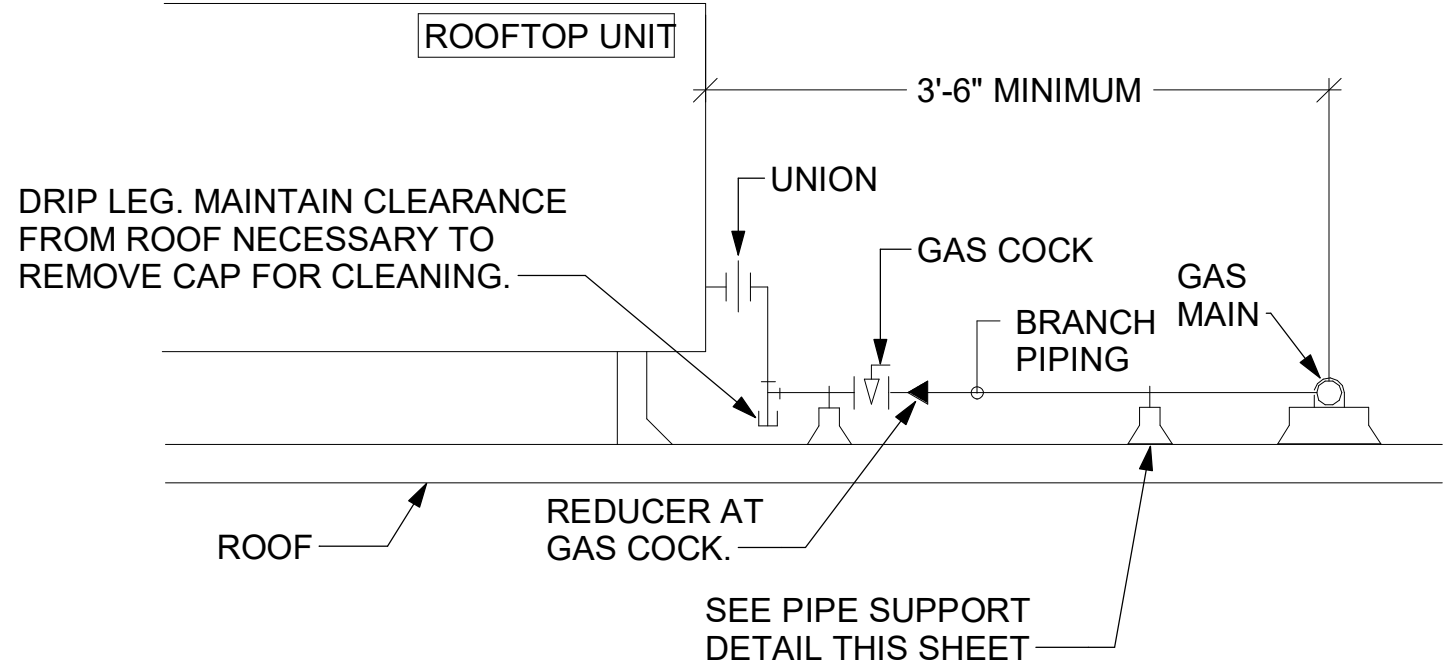
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<u>NO.</u>	<u>DATE</u>
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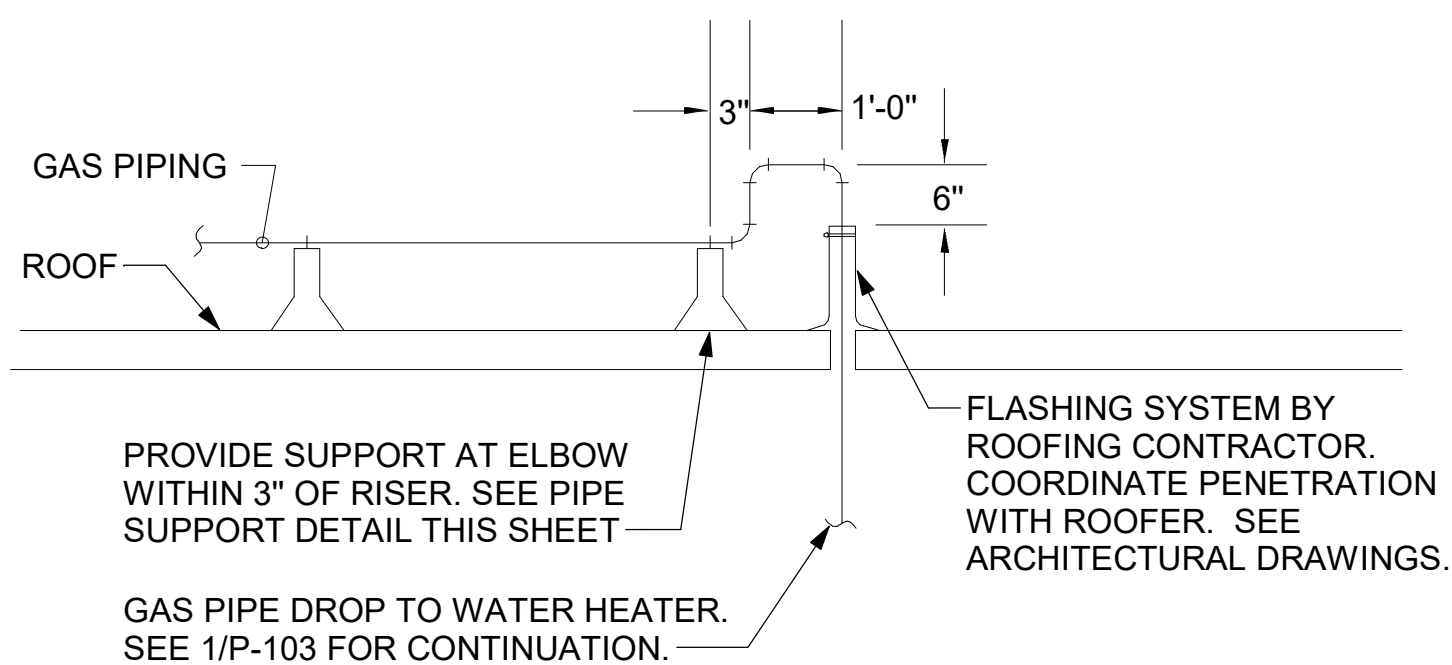
M-501

- NOTES:**
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
 2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
 3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.

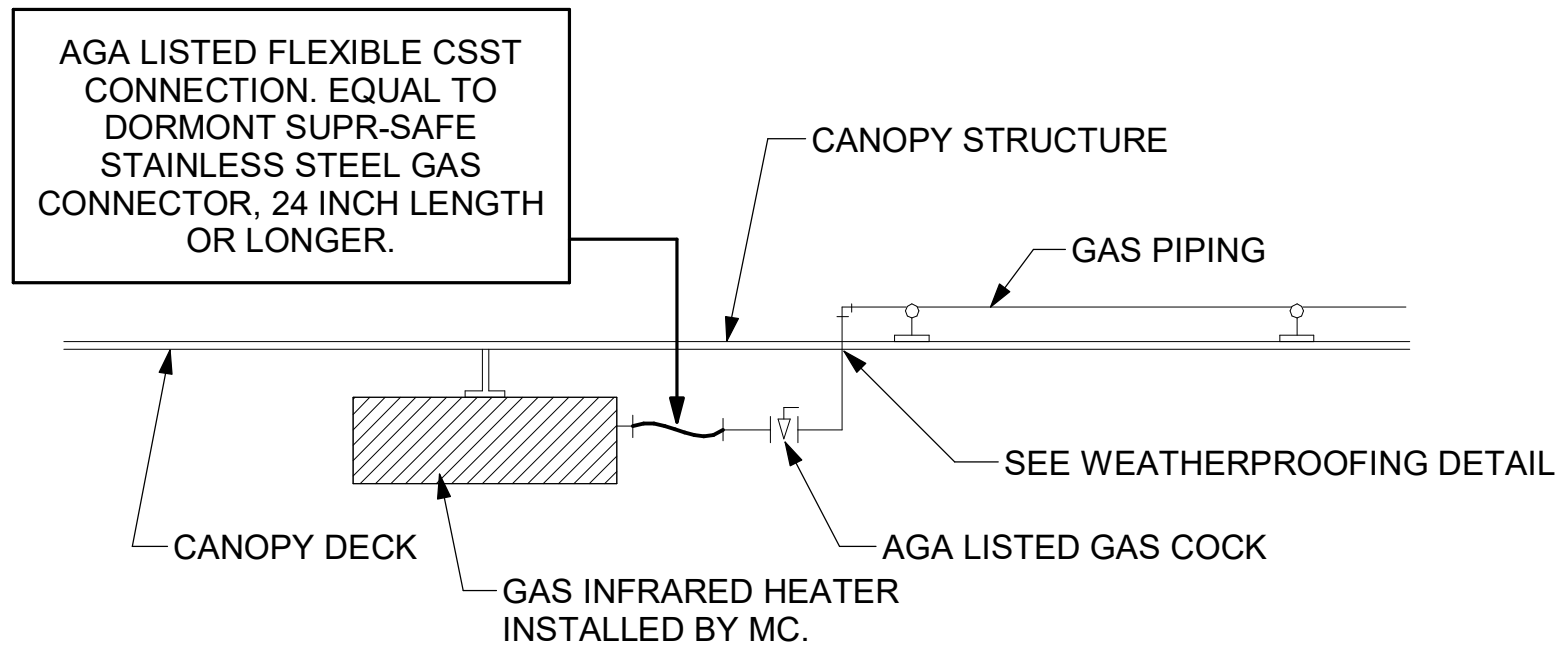


3 GAS PIPING AT RTU
NOT TO SCALE

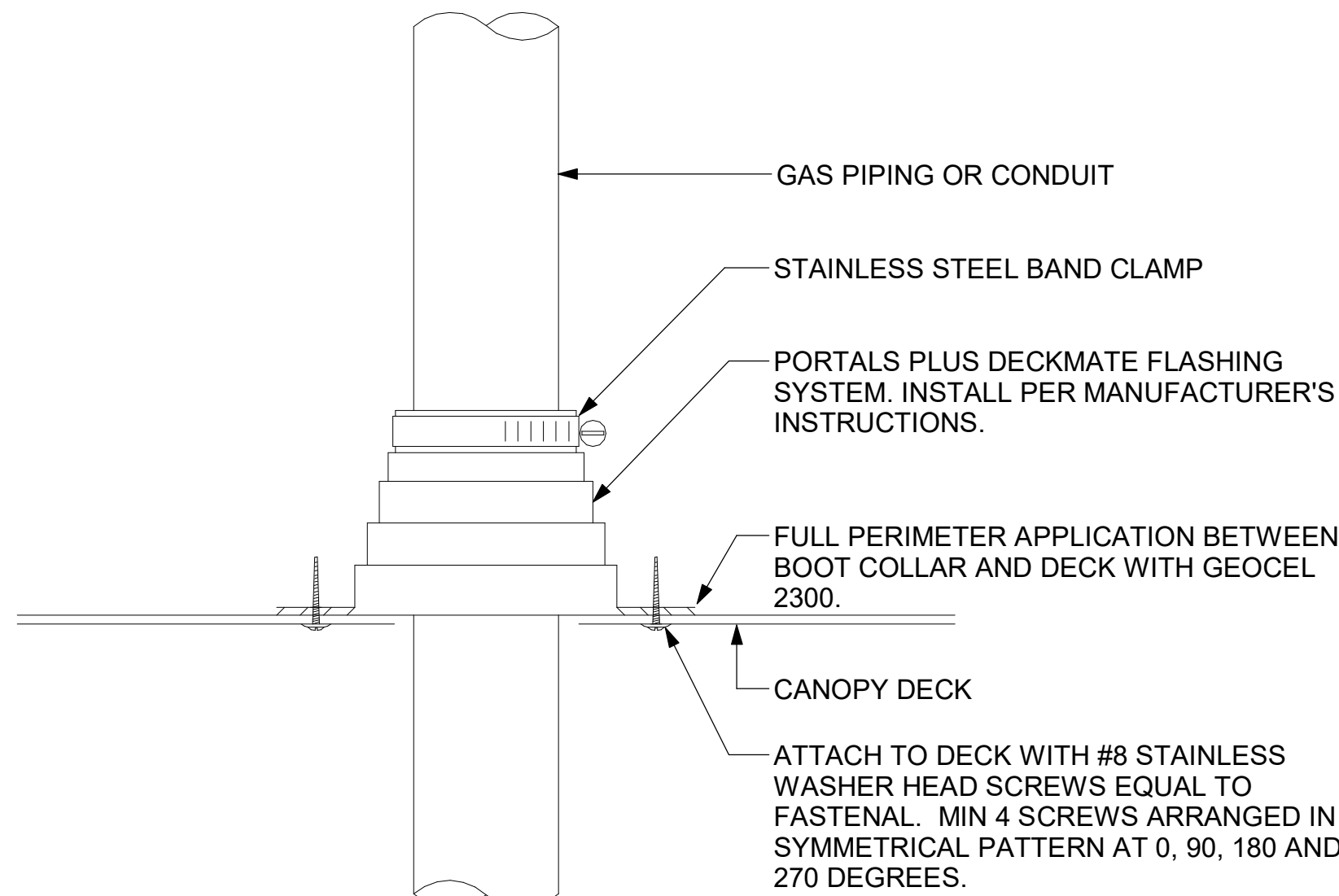
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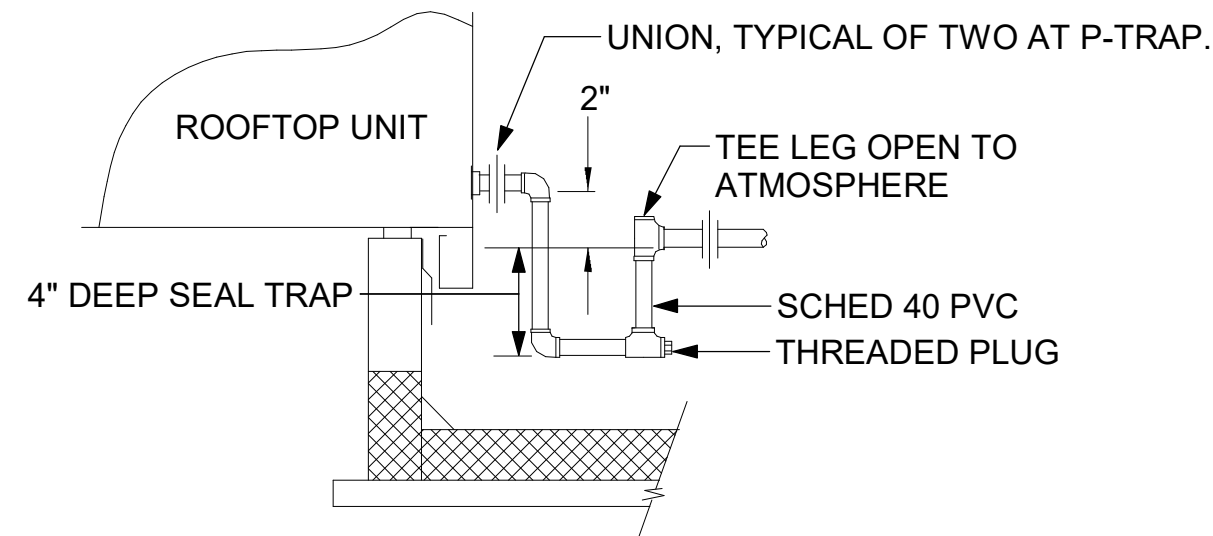
2 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE



1 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

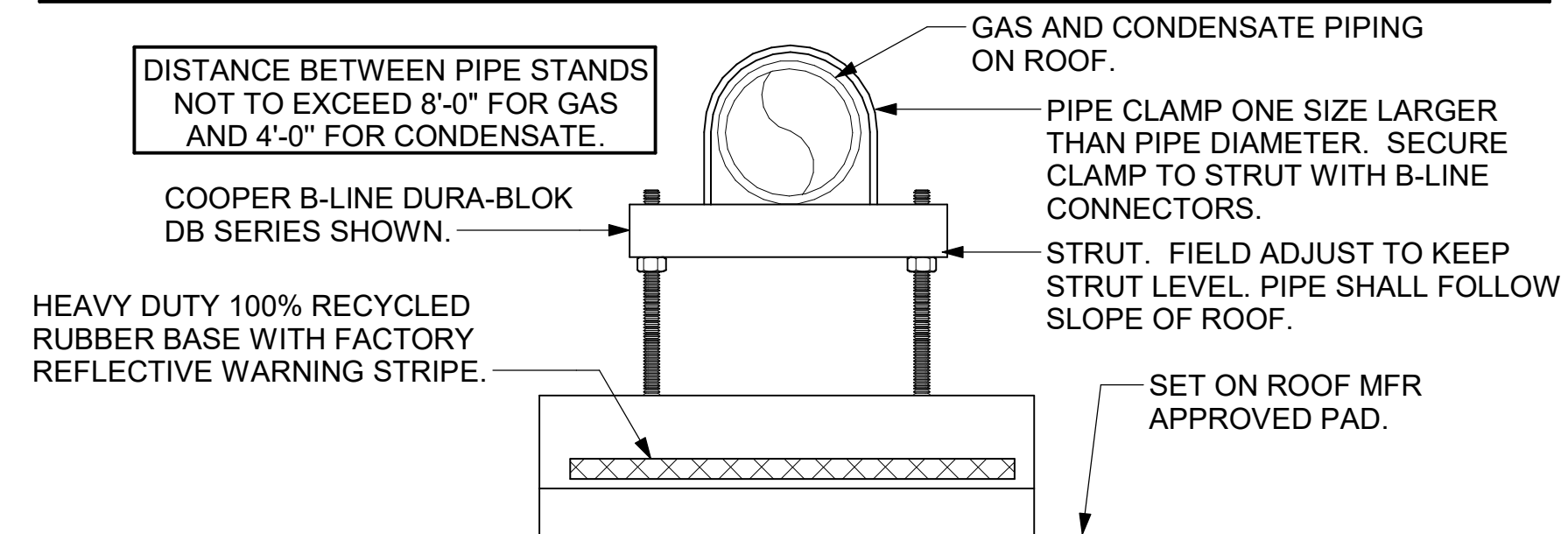


6 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

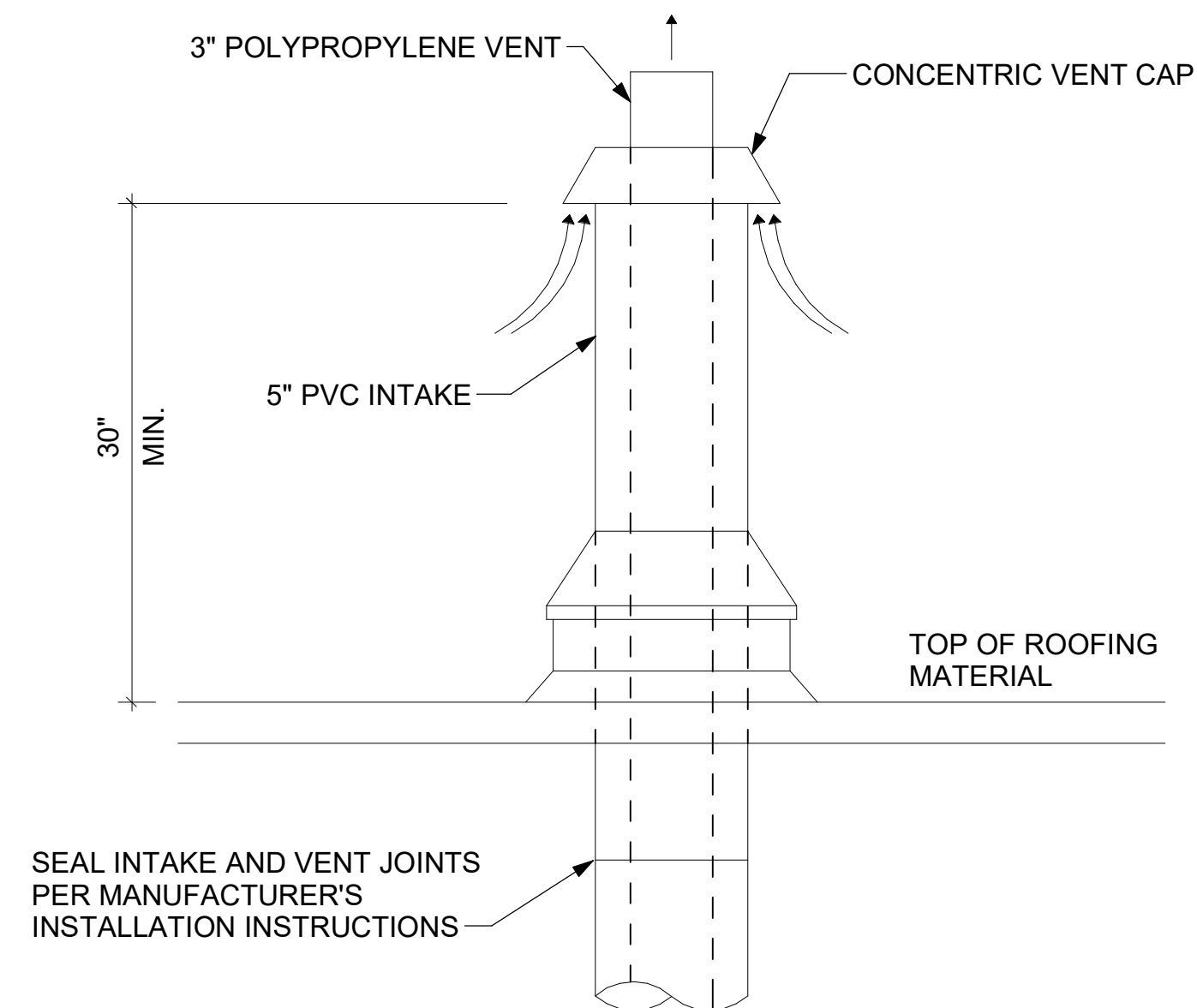


5 CONDENSATE DRAIN PIPING
NOT TO SCALE

- NOTES:**
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE



7 WATER HEATER VENT ROOF PENETRATION
NOT TO SCALE

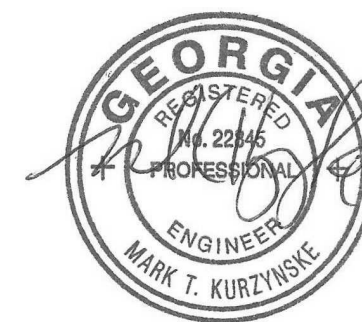


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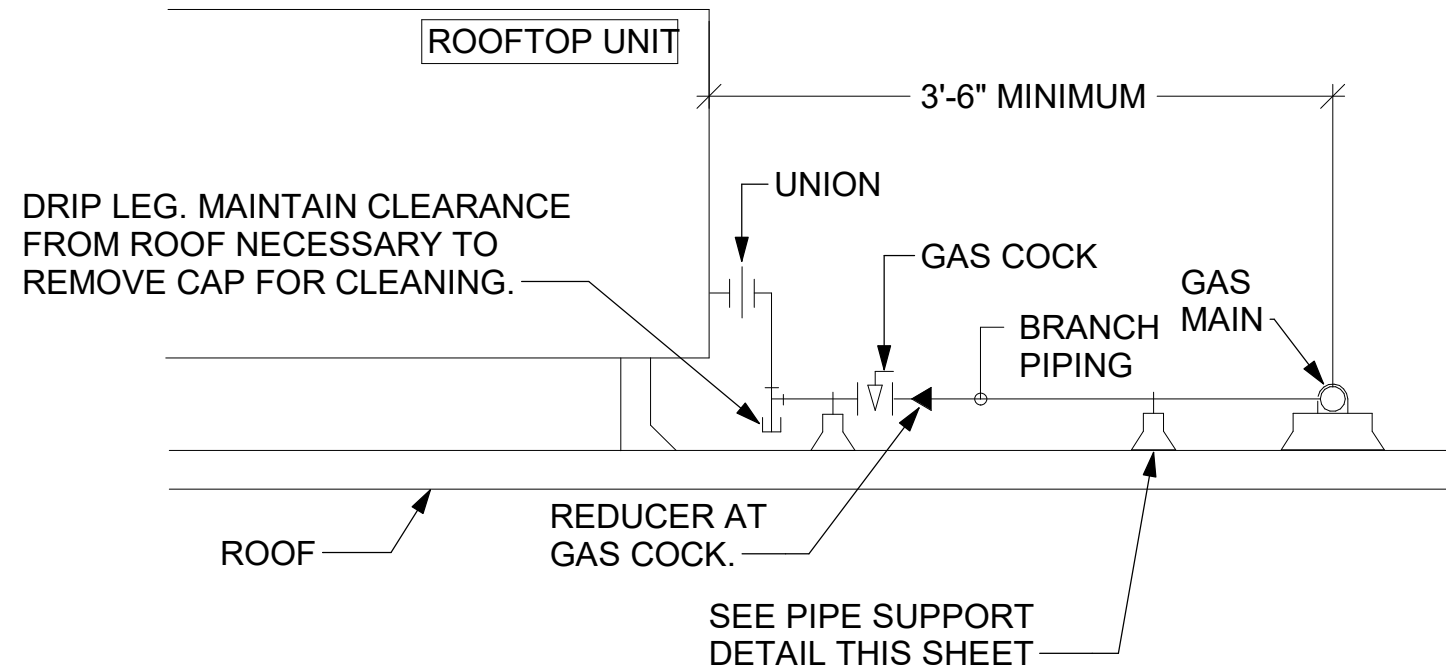
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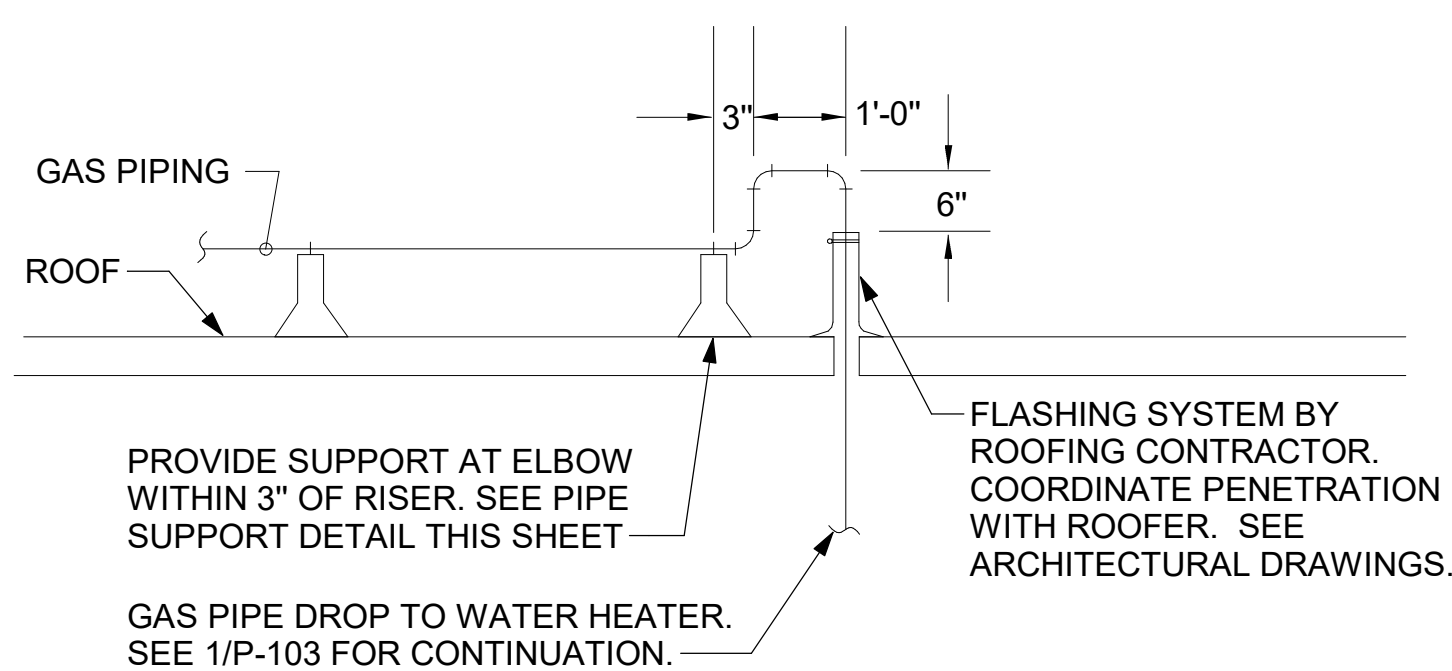
M-502

- NOTES:
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
 2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
 3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.

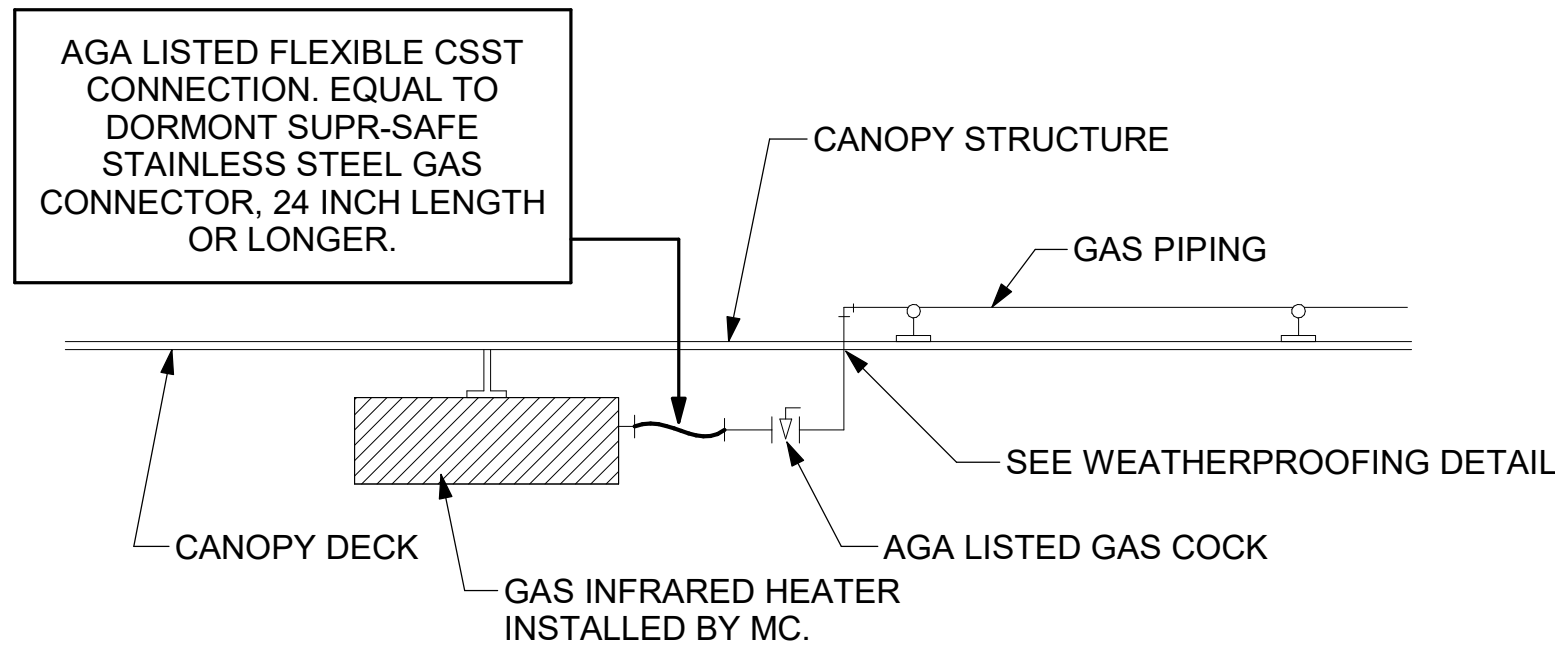


3 GAS PIPING AT RTU
NOT TO SCALE

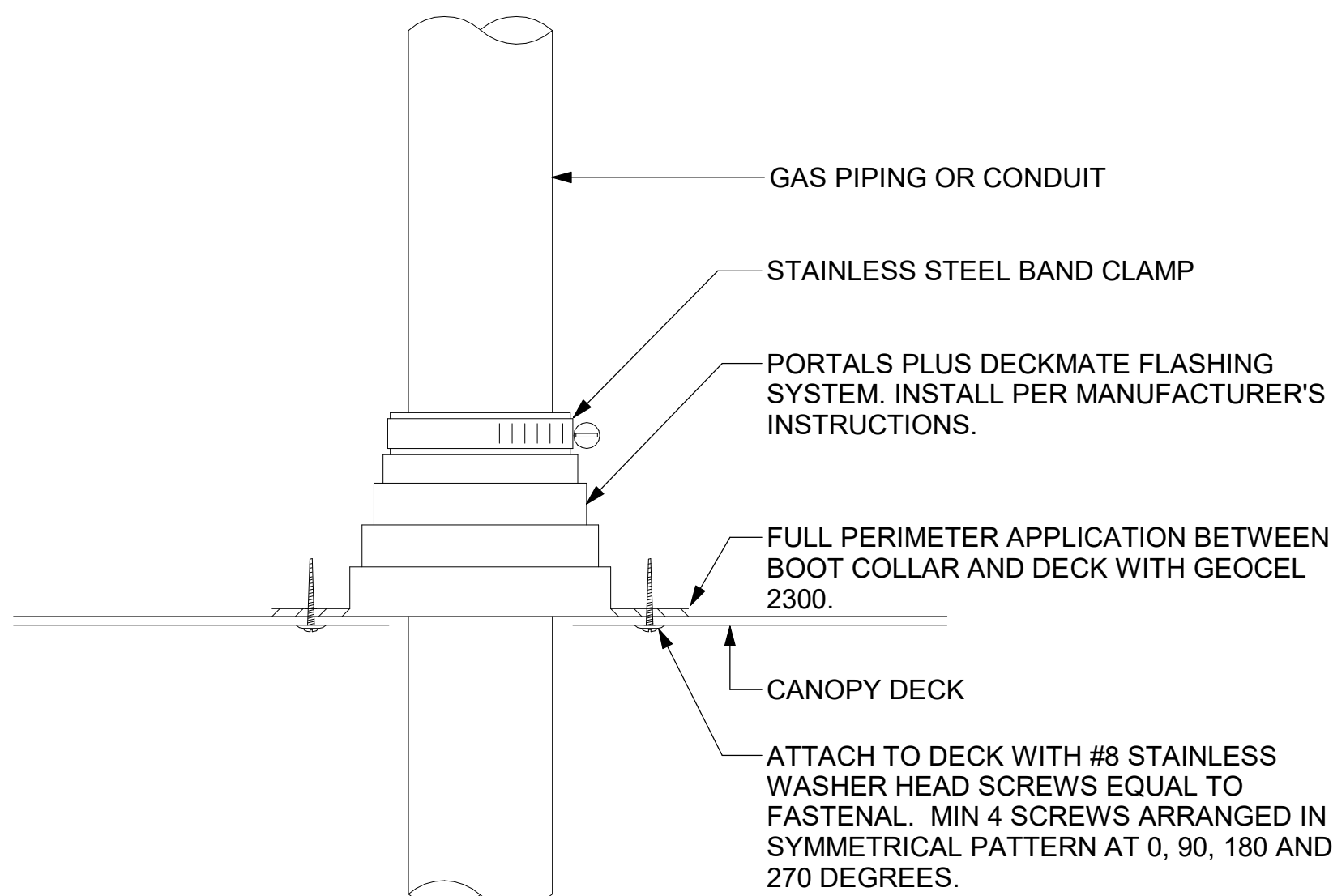
OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.



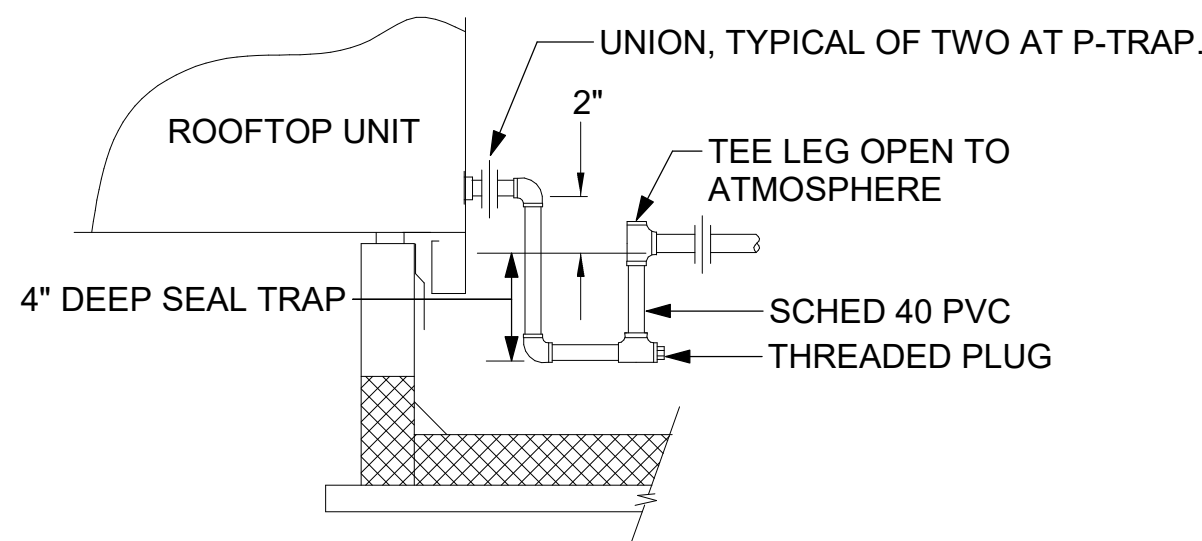
2 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE



1 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

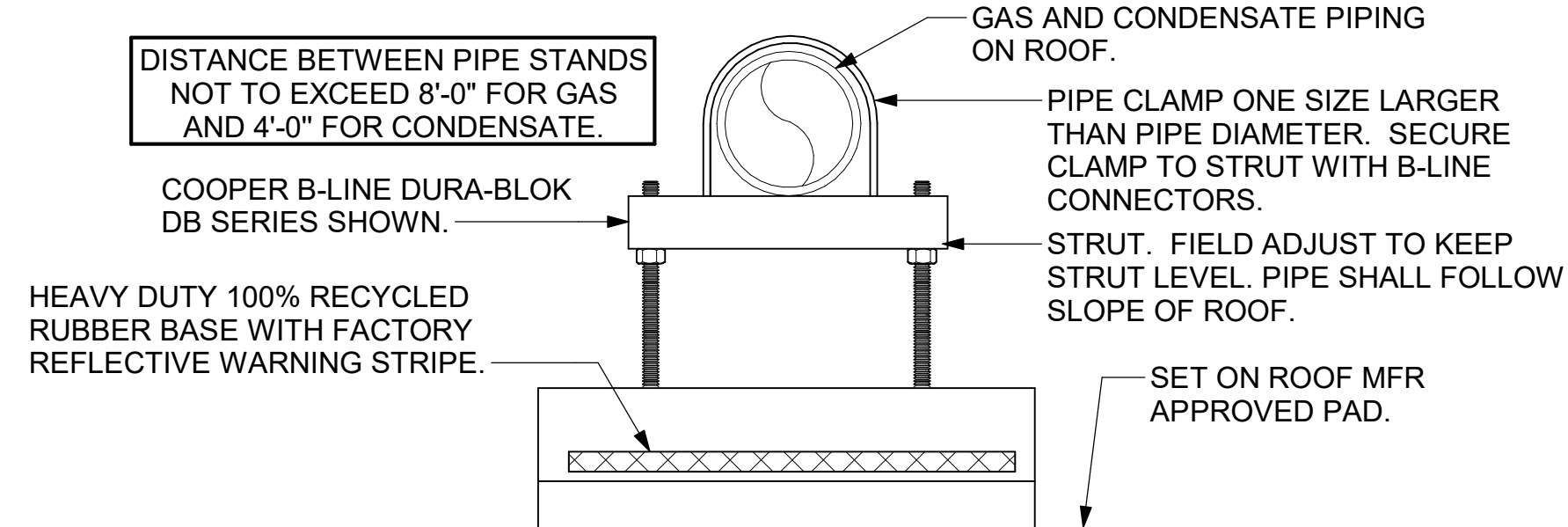


6 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

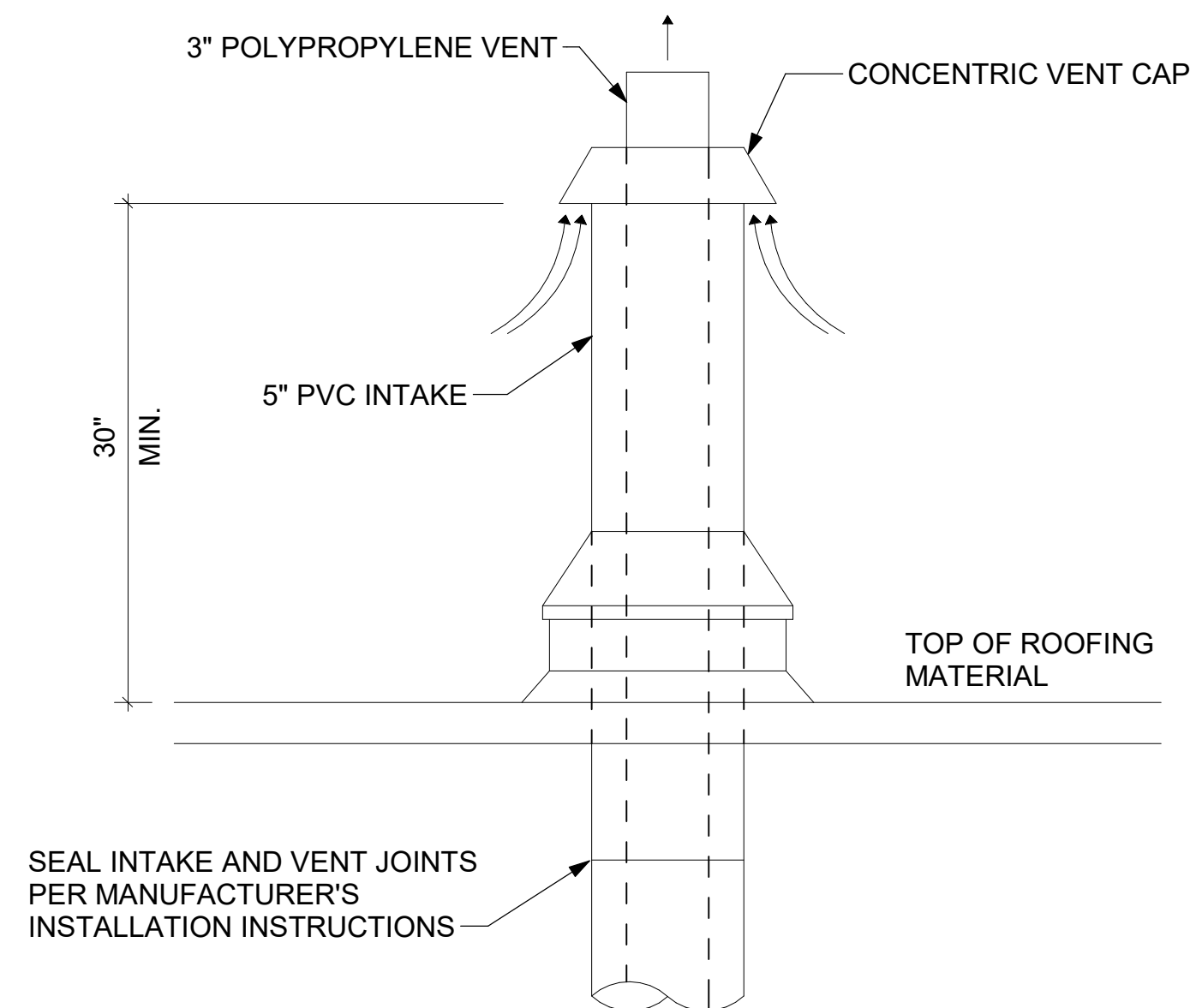


5 CONDENSATE DRAIN PIPING
NOT TO SCALE

- NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE



7 WATER HEATER VENT ROOF PENETRATION
NOT TO SCALE

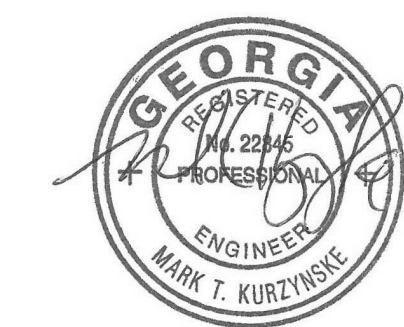


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M-502



Product Information Sheet



FyreWrap®

FyreWrap® Elite® 1.5 Duct Insulation – Grease Duct ASTM E2336 System

Introduction

Unifrax's FyreWrap® Elite® 1.5 Duct Insulation is a two-layer flexible enclosure for two-hour rated commercial kitchen grease ducts. FyreWrap Elite 1.5 Duct Insulation is tested per ASTM E2336 and is acceptable as an alternate to a traditional fire-rated shaft. Installed as a two-layer system, FyreWrap Elite 1.5 complies with the International Mechanical Code (IMC) and Uniform Mechanical Code (UMC). FyreWrap Elite 1.5 Duct Insulation offers the following product features:

- 2-hour fire-resistance rating
- Alternate to shaft enclosure
- Complies with IMC and UMC
- Tested per ASTM E2336
- Two-layer system
- High-temperature, biosoluble insulation
- Zero clearance to combustibles, at any location
- GREENGUARD tested for Microbial Resistance

Typical Product Parameters

Thickness	1.5"
Nominal Density	6pcf
Standard Product Form	Scrim Encapsulated
Product Availability	24" w x 25LF 48" w x 25LF

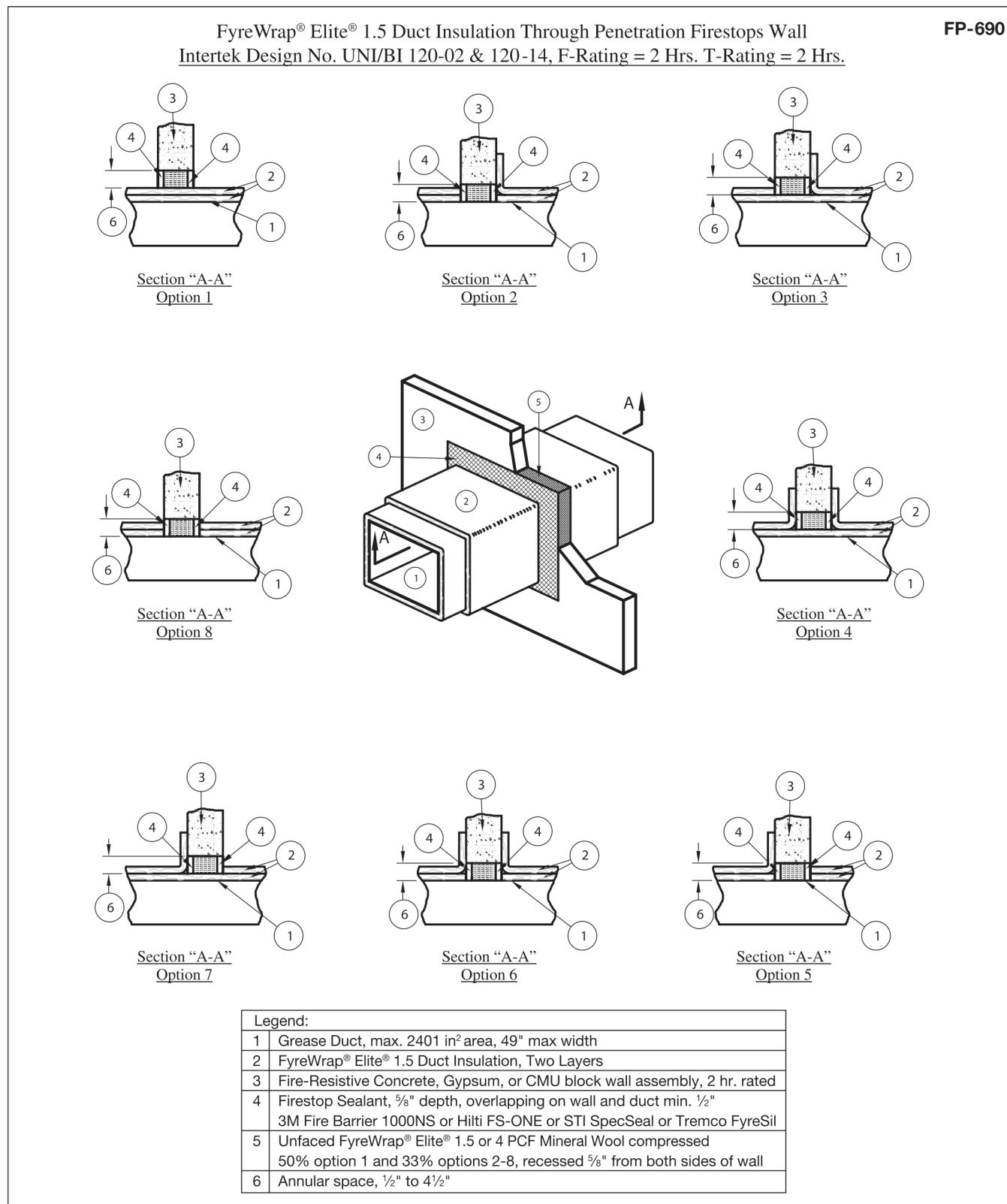
Typical Product Properties

ICC Evaluation Services	.....	Evaluation Report ESR-2224
Intertek Laboratories Listed	.....	Duct System: Design No. UNI/BI 120-02, UNI/BI 120-14, UNI/BA 120-01
ASTM E2336	.....	Passes all tests
ASTM E2336 Internal Grease Duct Test	.....	Zero Clearance to Combustibles at all locations on wrap
ASTM E119 Full Scale Equipment Test	.....	2-hour Fire Resistance Rating
ASTM E119 Vertical Wall Test	.....	2-hour Fire Resistance Rating
ASTM E84, UL 723, UL C102.2 – UL File No. R14514	.....	Unfaced Blanket Encapsulated
Flame Spread/Smoke Developed Rating	.....	Zero/Zero
ASTM E814 Firestop Test	.....	Firestop System: UNI/FRD 120-19, UNI/BI 120-02, F-Rating = 2 Hrs, T-Rating = 2 Hrs.
ASTM E136 Non-Combustibility Test	.....	Passes
ASTM C518 Durability Test	.....	Passes; R-Value = 4.8 per inch at 75°F
ASTM C518 Thermal Resistance	.....	R-Value of Elite 1.5 (1 1/2") = 7.2
ASTM D6329-03 Microbial Resistance	.....	Highly Resistant to Mold Growth
California State Fire Marshal Listing	.....	No. 2440-1478/100

Complies with: NFPA 96 (all editions), 1997 ICB0 Uniform Mechanical Code (UMC), 1997 ICB0 Uniform Building Code (UBC), 2018 International Mechanical Code (IMC), 2018 IAPMO UMC (Uniform Mechanical Code).



Figure 3. Firestop Installation



Form C-1495
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Page 4 of 6



Installation (Figure 1)

To minimize waste, FyreWrap Elite 1.5 should be rolled out tautly before measuring and making any material cuts. Install both layers of wrap with transverse (perimeter) and longitudinal butted joints. Between the first and second layers of wrap stagger transverse joints and offset longitudinal joints to different corners. All visually exposed blanket edges are to be sealed with minimum 3" wide aluminum foil tape and the use of filament tape is not required but is permitted to ease installation. The installation materials must comply with the options listed in Table 1.

Note: 3" material overlaps can be substituted for compression butt joints.

Table 1: Material Requirements

Item	Type and Specification
Bands	• Carbon steel or Stainless steel • Min. 1/2" wide & nom. 0.015" thick
Crimp clips	• Carbon steel or Stainless steel • Min 1" long
Pins	• Steel • Weld Pins or Cup Head • Min. 12 Gauge
Washers	• Galvanized Steel • Min. 2 1/2" square or 1 1/2" round

Attachment Options

Banding only

Place bands at 11 1/2" on both sides of all second layer transverse butt joints and add additional bands as needed to ensure spacing is max. 10 1/2" on center. Tighten banding to firmly hold the wrap system in place but not so tight as to cut or damage the blanket. Secure bands with crimp clips.

Note: No bands are required on the first layer.

Banding and Pins

For ducts greater than 24", in addition to installing bands as described in the Banding Option, weld steel insulation pins in rows to the underside of horizontal runs. Locate pins on both sides of all second layer transverse butt joints 3" apart. Add additional rows as needed to ensure longitudinal spacing is max. 10". Pins in each row are to be max. 6" from each duct edge and max. 12" on center. Impale FyreWrap Elite 1.5 Duct Insulation over the pins and secure with washers (cup head pins also permitted).

1. Pins are not required on vertical duct sections when using this option.
Note: In lieu of banding, pins installed on all sides of the duct is permitted.

Access Door (Figure 2)

Field fabricated and prefabricated grease duct access doors are permitted for use with FyreWrap Elite 1.5 Duct Insulation. Field fabricated access doors are protected with three layers of FyreWrap Elite 1.5 Duct Insulation. A gasket of 0.5" thick unfaced FyreWrap or ceramic fiber blanket is initially installed between the duct and the access door cover. Weld threaded rod to each corner of the access door opening.

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Cover with hollow steel tubes (optional) for easy removal of blanket. Weld at least four steel insulation pins to the outside of the door cover panel, 1" from each corner. Cut through the two layers of FyreWrap Elite 1.5 Duct Insulation already covering the duct and access door opening. Leave the interior piece in place. Cut back the outer layer to form an opening with perimeter dimensions that extend 1" beyond the inner layer. Cut a piece of FyreWrap Elite 1.5 Duct Insulation that matches the dimensions of the opening and install over pins to fit tightly within the existing material. Cut an additional piece of insulation with perimeter dimensions that extend 1" beyond the layer below. Install over the insulation pins. Throughout the installation process, seal all cut edges with aluminum foil tape. Secure with washers and bend over excess pin lengths to eliminate safety hazards. Place washers on threaded rod and secure with nuts. Do not install banding over this area.

Prefabricated - Ductmate Ultimate and Ductmate F2-HT prefabricated access doors are permitted and must be installed in accordance with Ductmate Industries, Inc. installation instructions and the applicable code. The prefabricated access door is protected with three layers of FyreWrap Elite 1.5 Duct Insulation. The first layer is cut to the size of the door. A successive layer (two additional layers) is sized to create an overlap of 1" beyond the layer immediately below. All edges of insulation blanket must be protected with aluminum foil tape. A No. 16 gauge outer plate the same dimension as the outer layer of insulation blanket is held in place over the insulation using threaded rod and wing nuts. The outer plate is supplied with the Ultimate door and F2-HT doors. Access doors are available from Ductmate Industries, Inc. Contact www.ductmate.com or 1-800-245-3188 for additional information or local distributors. Ask for the Access Door Product Line Manager.

Firestop Systems (Figures 3 and 4)

Where ducts insulated with FyreWrap Elite 1.5 Duct Insulation pass through fire-rated walls and floors, the penetration opening shall be firestopped to maintain the fire rating of the assembly. Firestop Systems acceptable for use with FyreWrap Elite 1.5 Duct Insulation ASTM E2336 System at the time of printing are detailed on pages 4 and 5.

Duct Support (Figure 5)

Horizontal duct support systems do not require FyreWrap insulation when constructed using a minimum 1/4" diameter uninsulated all-thread steel rod and 1 1/2" x 1 1/2" x 1/4" uninsulated steel angle spaced a maximum 60" on center along the length of the duct. A minimum clearance of 1" is required between the protected duct and the steel rod. To increase hanger spacing to 72" on center, 1/2" all-thread steel rod and 2" x 2" x 1/4" steel angle are required. Vertical duct support systems do not require FyreWrap insulation when constructed using minimum 1 1/2" x 1 1/2" x 1/4" steel angle brackets located on opposite sides of the duct, on the top and bottom of each floor-ceiling assembly. The supports are attached to the duct with welds. Maximum spacing between vertical supports shall be established by structural calculations in accordance with the applicable code, that are submitted to the building official for approval.

Figure 1. Butt Joint Technique

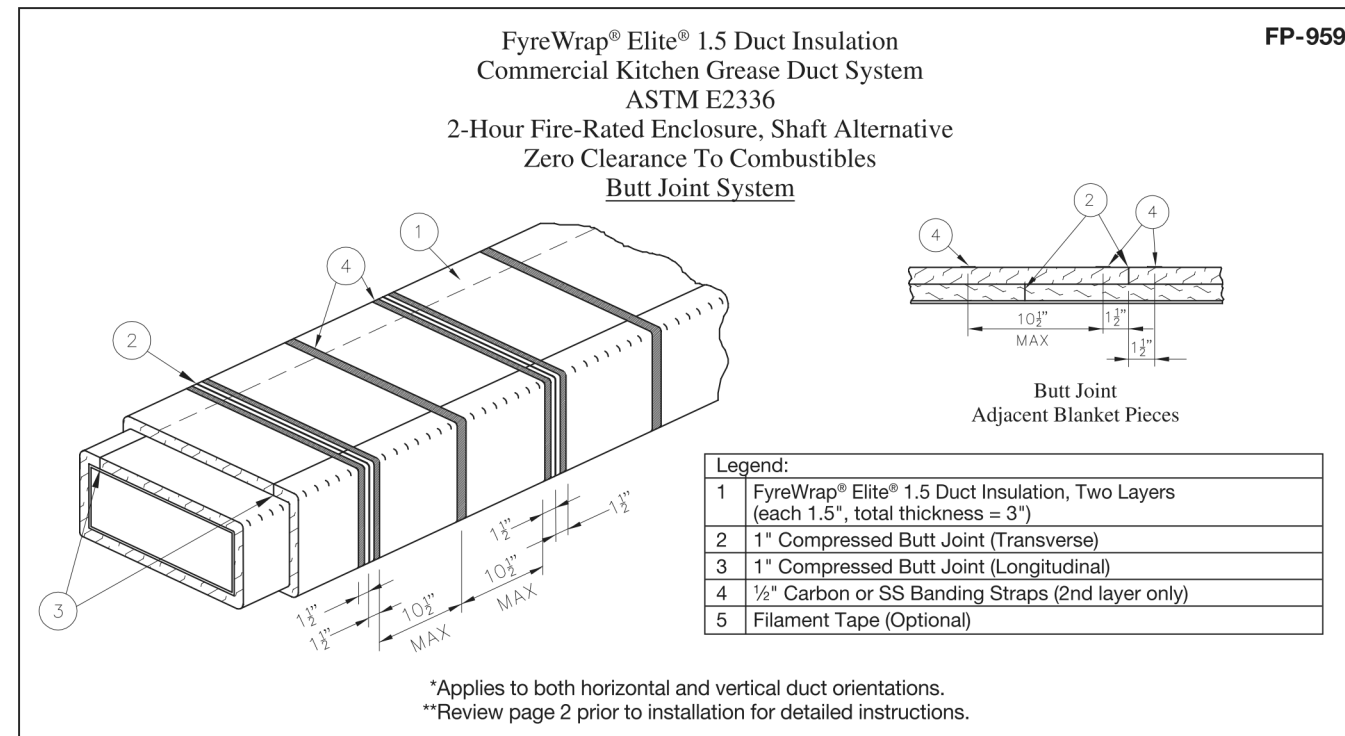
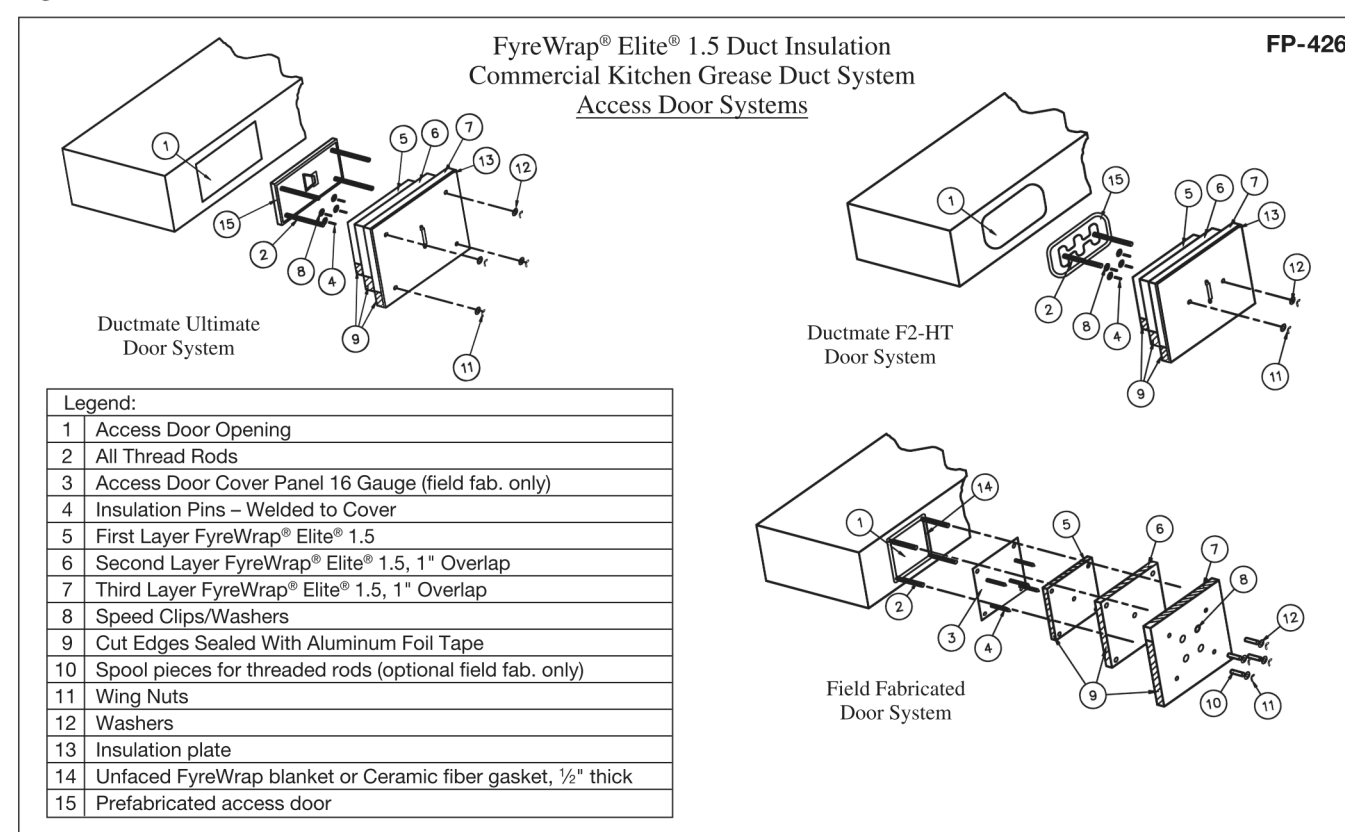


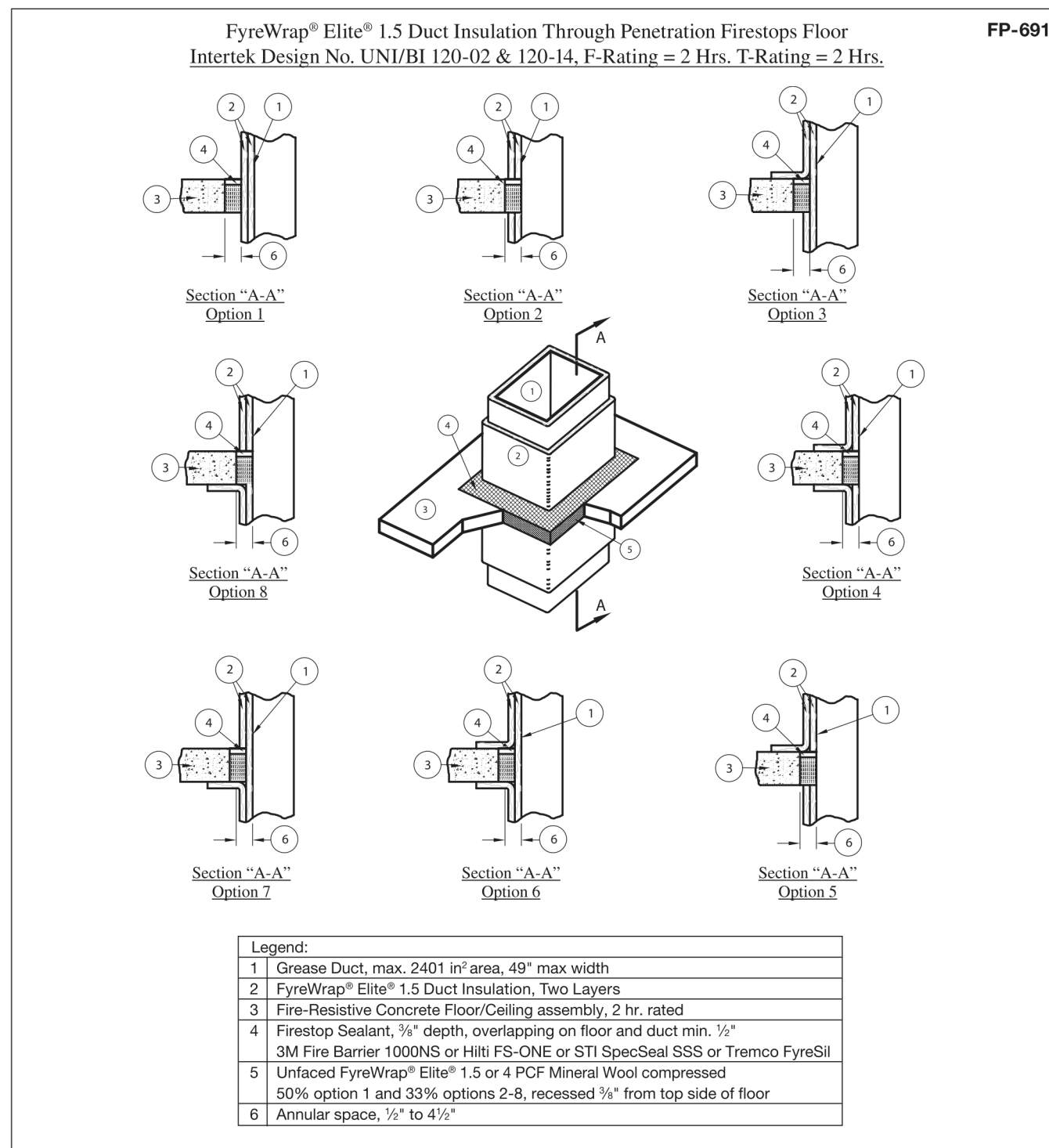
Figure 2. Access Door



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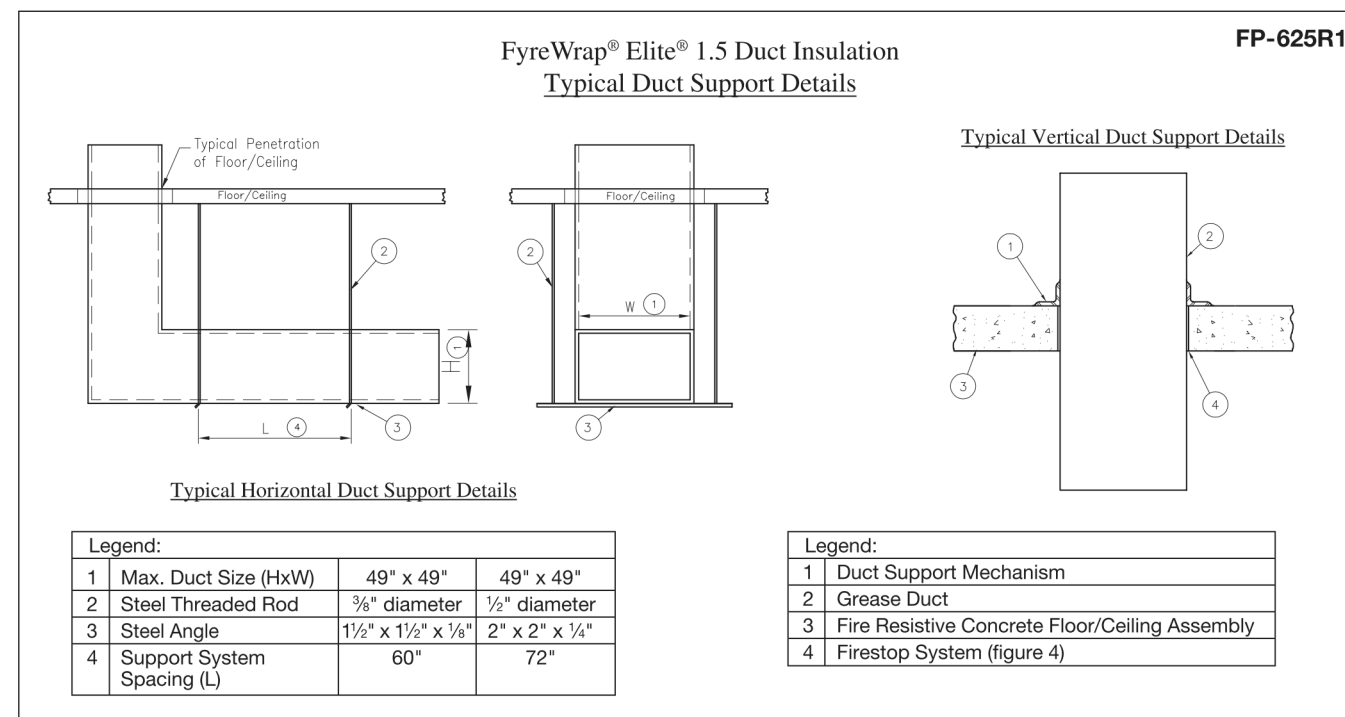
Figure 4. Firestop Installation



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Page 5 of 6



Figure 5. Support System



For additional information about product performance or to identify the recommended product for your fire protection application, please contact Unifrax at 716-768-6500 and ask for Fire Protection Application Engineering.

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

FyreWrap

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10/03/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
PRINTED FOR: CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 05/22/2024 Plan Review Comments

CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
DRAWN BY Author

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SHEET
FYREWAP DETAILS

SHEET NUMBER

M-503

SHEET ADDED TO SET

Autodesk Docs://GA_05562_Centerville Hwy& Zoar ChurchRd_2023.12_FSR#05562_Centerville Hwy& Zoar ChurchRd_MEC.rvt
5/23/2024 8:27:35 AM
30-LE-05562-M-601-EQUIPMENT SCHEDULES - LENNOX

ROOFTOP UNIT SCHEDULE - LENNOX																	
MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY (CFM)	OA (CFM)	HP	ESP (in-wg)	EER	IEER/ SEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
AC#1	278.3	210.5	480	389	8,125	1,750	7.5	0.8	10.3	14.5	208	3	135	150	LGT300S4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#2	139.2	101.4	240	194	4,375	1,075	3.75	0.8	10.8	14.6	208	3	64	80	LGT150H4E	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#3	174.7	131.7	480	389	5,250	1,275	5	0.8	12	15	208	3	76	90	LGT180H4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#4	60.1	44.8	150	121	1,750	425	1.5	0.8	12.7	17.1	208	3	25	35	LGT060H4E	LENNOX	2,3,4,5,6,7,8,9,10,11,12,13,14,15
NOTES	• MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.																
REMARKS	1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. 2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST. 3. 14" HIGH ROOF CURB. 4. SEE DETAIL 2/M-701 FOR SETTING OF CONTROL PARAMETERS BY MC. 5. FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR. 6. FACTORY INSTALLED RETURN AIR SMOKE DETECTOR. 7. FACTORY INSTALLED NON-FUSED DISCONNECT. 8. 2" MERV 8 THROW AWAY FILTERS. 9. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS. 10. FACTORY INSTALLED COIL HAIL GUARD. 11. PROVIDE HIGH FAULT SCOR (100K). 12. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR. 13. FACTORY PROVIDED, FIELD INSTALLED BELT TENSIONER. 14. FACTORY CONFIGURED PHASE LOSS PROTECTION. 15. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.																

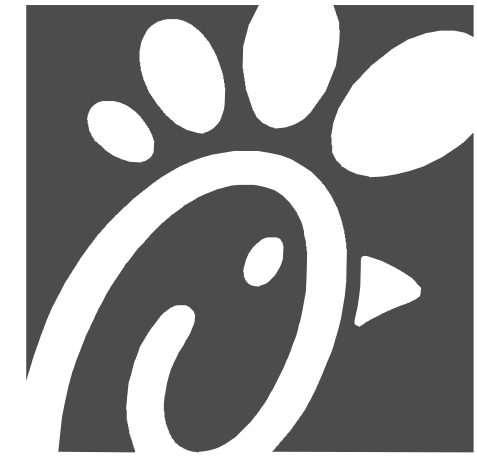
HOOD SCHEDULE												
MARK	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS	
HOOD#1L	1,204	0.13	80 @ 0.30"	BACKSHELF	14"x8"	107"	37"	38"	HALTON	KVL-2 IC	1	
HOOD#1R	709	0.13	47 @ 0.30"	BACKSHELF	8"x8"	63"	37"	38"	HALTON	KVL-2 IC	1	
HOOD#2	701	0.3	30 @ 0.29"	BACKSHELF	8"x8"	45"	34"	38"	HALTON	KVL-C IC	1	
HOOD#3	701	0.3	30 @ 0.29"	BACKSHELF	8"x8"	42"	34"	38"	HALTON	KVL-C IC	1	
NOTES	DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.											
REMARKS	1. REFER TO HOOD SHOP DRAWINGS FOR HOOD CONSTRUCTION AND OPTIONS. PRELIMINARY HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEETS MH-1.1, MH-1.2, AND MH-1.3.											

HEATER SCHEDULE													
MARK	HEATING INPUT		FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
EIH#1	ELECTRIC (KW)	GAS (MBH)	56"	8.5"	3.5"	WALL BRACKET	208	1	28.9	40	BH0420035	BROMIC	1, 2, 3, 4
IRH	0.00	50.0	48"	13.4"	13.4"	BRACKET	120	1	0.4	20	WB50	SPACE-RAY	1, 5, 6, 7
NOTES	• NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004. • CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.												
REMARKS	1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. 2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. 3. PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS. 4. PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES. 5. STEEL BURNER WITH CERAMIC BURNER TILES. 6. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" Laterally FROM THE LONG SIDE OF THE HEATER. 7. STAINLESS STEEL HEAT SHIELDS.												

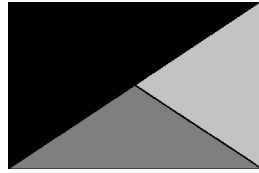
FAN SCHEDULE													
MARK	FAN CFM	ESP (in-wg)	MOTOR RPM	HP	AREA SERVED	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS	
CF#1	1,900	0.010	1,625	0.100	OUTDOOR CANOPY	120	1	1.1	20	U-18-TE-HD	TPI	20,21,24	
EF#1	1,913	0.750	1,331	0.750	HOOD#1	120	1	0	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11	
EF#2	1,402	0.950	1,199	0.750	HOOD#2 & HOOD#3	115	1	0	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11	
EF#3	300	0.375	1,550	0.125	RESTROOMS	120	1	2.2	20	XRED-095-VG	ACCUREX	1,3,11,12,13,14,15,16	
EF#4	75	0.260	1,550	0.020	RESTROOMS	120	1	0.2	20	SP-A90	GREENHECK	1,22,23	
TF#1	450	0.300	1,144	0.127	TECH CLOSET	120	1	2.5	0	SP-A510-VG	GREENHECK	1,17, 18, 19	
NOTES	• NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED.												
REMARKS	1. FANS SUPPLIED BY HALTON. 2. U.L. 705 LISTED AND LABELED FOR RESTAURANT APPLICATIONS. 3. FACTORY INSTALLED PREWIRED DISCONNECT SWITCH. 4. 19" HIGH ROOF CURB 5. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034. 6. FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR. 7. FACTORY DRAIN CONNECTION. 8. FACTORY BOLTED ACCESS DOOR ON SCROLL. 9. FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER. 10. FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER. 11. INTEGRAL THERMAL OVERLOAD. 12. BIRDSREEN. 13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 3/M-501. 14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR. 15. 12" HIGH CURB. 16. FACTORY INSTALLED AND WIRED SPEED CONTROLLER. 17. PROVIDE NEMA 1 PREWIRED DISCONNECT. 18. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED. 19. PROVIDE THERMOSTAT THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F. 20. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 21. PROVIDE WITH ON/OFF SWITCH. 22. FAN SHALL BE CONTROLLED WITH THE ROOM LIGHTING. ALL WIRING IS BY THE ELECTRICAL CONTRACTOR. 23. DIRECT DRIVE CEILING FAN. PROVIDE A DISCONNECT SWITCH , INTEGRAL BACKDRAFT DAMPER, AND MANUFACTURER'S FAN SPEED CONTROLLER. 24. FAN SUPPLIED BY TOM BARROW OR POWERS OF ARKANSAS FOR SOUTHWEST REGION.												

AIR DOOR SCHEDULE													
MARK	CFM	VELOCITY (FPM)	HEATING (KW)	MOTOR HP	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	AREA SERVED	MODEL	MANUFACTURER	REMARKS	
AD#1	1,543	2,338	10	0.75	31.4	40	208	3	DRIVE THRU	CHA-1-48E	POWERED AIRE	1,2,3,5	
AD#2	1,197	2,443	0	0.75	3.6	20	208	1	SERVING	CHA-1-36	POWERED AIRE	1,2,4,6	
AD#3	3,867	4,218	0	0.75	3.6	20	208	1	REAR DOOR	RBT-1-48	POWERED AIRE	4	
NOTES	• NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004												
REMARKS	1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING. 2. FACTORY WIRED DISCONNECT. 3. FACTORY PROVIDED, FIELD INSTALLED BY MC. REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M-702. 4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET. 5. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. 6. PROVIDE WITH NOZZLE EXTENSION, SEE DETAIL 4/M-301.												

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 / KITCHEN	VARIES	24"x24"	LAY-IN	1,7	
B	VARITHERM PLAQUE DIFFUSER	OFFICE	8"	24"x24"	LAY-IN	1,7,8	
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	16"x16"	BEVELLED	1,3,5,6	
D	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	SERVING	VARIES	16"x16"	SURFACE	1,3,5,6	
E	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING	6"	12"x12"	SURFACE	1,3,5,6	
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING / KITCHEN / MFA	24"x24"	24"x24"	LAY-IN	1,7,8	
FF	PRICE MODEL 80FF STEEL FILTER RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND 2" FILTER FRAME.	MFA	24"x24"	24"x24"	LAY-IN	1,7,8	
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	VARIES	10"x10"	BEVELLED	1,2,3,5,6	
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS / ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6	
NOTES	• NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004						
REMARKS	1. STANDARD OFF WHITE FINISH. 2. PROVIDE MODEL VCS3 NECK DAMPER. 3. SEE DRAWING M-101 FOR THROW. 4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN. 5. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY. 6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 3/M-101. 7. FACTORY INSULATED R-6 BACKPAN. 8. PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.						



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05/22/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LC BS
RELEASE: 23.11
PRINTED FOR
CONSTRUCTION
REVISION SCHEDULE

SHEET NO. DATE DESCRIPTION

CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
DRAWN BY BLM

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SHEET
EQUIPMENT SCHEDULES
- LENNOX

SHEET NUMBER

M-601

Autodesk Docs://GA_05562_Centerville Hwy& Zoar ChurchRd_2023.12_FSR05562_Centerville Hwy& Zoar ChurchRd_MEC.rvt
10/2/2024 3:31:44 PM
30-LE-05562-M-601-EQUIPMENT SCHEDULES - LENNOX

ROOFTOP UNIT SCHEDULE - LENNOX																	
MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY (CFM)	OA (CFM)	HP	ESP (in-wg)	EER	IEER/ SEER	VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
AC#1	278.3	210.5	480	389	8,125	1,750	7.5	0.8	10.3	14.5	208	3	135	150	LGT300S4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#2	139.2	101.4	240	194	4,375	1,075	3.75	0.8	10.8	14.6	208	3	64	80	LGT150H4E	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#3	174.7	131.7	480	389	5,250	1,275	5	0.8	12	15	208	3	76	90	LGT180H4M	LENNOX	1,3,4,5,6,7,8,9,10,11,12,13,14,15
AC#4	60.1	44.8	150	121	1,750	425	1.5	0.8	12.7	17.1	208	3	25	35	LGT060H4E	LENNOX	2,3,4,5,6,7,8,9,10,11,12,13,14,15
NOTES	• MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.																
REMARKS	1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST. 2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST. 3. 14" HIGH ROOF CURB. 4. SEE DETAIL 2/M-701 FOR SETTING OF CONTROL PARAMETERS BY MC. 5. FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR. 6. FACTORY INSTALLED RETURN AIR SMOKE DETECTOR. 7. FACTORY INSTALLED NON-FUSED DISCONNECT. 8. 2" MERV 8 THROW AWAY FILTERS. 9. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS. 10. FACTORY INSTALLED COIL HAIL GUARD. 11. PROVIDE HIGH FAULT SCOR (100K). 12. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR. 13. FACTORY PROVIDED, FIELD INSTALLED BELT TENSIONER. 14. FACTORY CONFIGURED PHASE LOSS PROTECTION. 15. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.																

HOOD SCHEDULE											
MARK	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	37"	38"	HALTON	KVL-2 IC	1
HOOD#1R	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	37"	38"	HALTON	KVL-2 IC	1
HOOD#2	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	45"	34"	38"	HALTON	KVL-C IC	1
HOOD#3	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	HALTON	KVL-C IC	1
NOTES	DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.										
REMARKS	1. REFER TO HOOD SHOP DRAWINGS FOR HOOD CONSTRUCTION AND OPTIONS. PRELIMINARY HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEETS MH-1.1, MH-1.2, AND MH-1.3.										

HEATER SCHEDULE													
MARK	HEATING INPUT		FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
EIH#1	6.00	0.0	56"	8.5"	3.5"	WALL BRACKET	208	1	28.9	40	BH0420035	BROMIC	1, 2, 3, 4
IRH	0.00	50.0	48"	13.4"	13.4"	BRACKET	120	1	0.4	20	WB50	SPACE-RAY	1, 5, 6, 7
NOTES	- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004. - CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.												
REMARKS	- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. - PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. - PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS. - PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES. - STEEL BURNER WITH CERAMIC BURNER TILES. - PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" Laterally FROM THE LONG SIDE OF THE HEATER. - STAINLESS STEEL HEAT SHIELDS.												

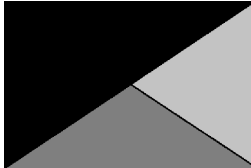
FAN SCHEDULE												
MARK	FAN CFM	ESP (in-wg)	MOTOR RPM	HP	AREA SERVED	VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	MODEL	MANUFACTURER	REMARKS
CF#1	1,900	0.010	1,625	0.100	OUTDOOR CANOPY	120	1	1.1	20	U-18-TE-HD	TPI	20,21,24
EF#1	1,913	0.750	1,331	0.750	HOOD#1	120	1	13.8	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#2	1,402	0.950	1,199	0.750	HOOD#2 & HOOD#3	120	1	13.8	25	KEFB-14-CFA	HALTON	1,2,3,4,5,6,7,8,9,10,11
EF#3	300	0.375	1,550	0.125	RESTROOMS	120	1	2.2	20	XRED-095-VG	ACCUREX	1,3,11,12,13,14,15,16
TF#1	450	0.300	1,144	0.127	TECH CLOSET	120	1	2.5	20	SP-A510-VG	GREENHECK	1,17, 18, 19
NOTES	• NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED.											
REMARKS	1. FANS SUPPLIED BY HALTON. 2. U.L. 705 LISTED AND LABELED FOR RESTAURANT APPLICATIONS. 3. FACTORY INSTALLED PREWIRED DISCONNECT SWITCH. 4. 22" HIGH ROOF CURB. 5. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034. 6. FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR. 7. FACTORY DRAIN CONNECTION. 8. FACTORY BOLTED ACCESS DOOR ON SCROLL. 9. FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER. 10. FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER. 11. INTEGRAL THERMAL OVERLOAD. 12. BIRDSCREEN. 13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 1/M-501. 14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR. 15. 12" HIGH CURB. 16. FACTORY INSTALLED AND WIRED SPEED CONTROLLER. 17. PROVIDE NEMA 1 PREWIRED DISCONNECT. 18. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED. 19. PROVIDE THERMOSTAT THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F. 20. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 21. PROVIDE WITH ON/OFF SWITCH. 22. NOT USED. 23. NOT USED. 24. FAN SUPPLIED BY TOM BARROW OR POWERS OF ARKANSAS FOR SOUTHWEST REGION.											

AIR DOOR SCHEDULE												
MARK	CFM	VELOCITY (FFM)	HEATING (KW)	MOTOR HP	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1,543	2,338	10	0.75	31.4	40	208	3	DRIVE THRU	CHA-1-48E	POWERED AIRE	1,2,3,5
AD#2	1,197	2,443	0	0.75	3.6	20	208	1	SERVING	ETA-1-36	POWERED AIRE	1,2,4,6
AD#3	3,867	4,218	0	0.75	3.6	20	208	1	REAR DOOR	RBT-1-48	POWERED AIRE	4
NOTES	• NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004											
REMARKS	1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING. 2. FACTORY WIRED DISCONNECT. 3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAILS ON M-702. 4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET. 5. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. 6. PROVIDE WITH NOZZLE EXTENSION, SEE DETAIL 4/M-301.											

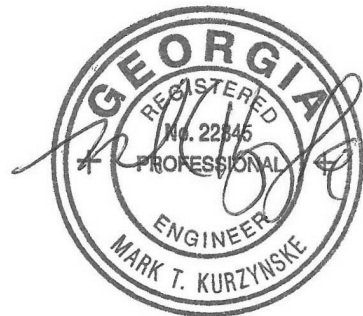
AIR DEVICE SCHEDULE						
MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING / KITCHEN	VARIES	24"x24"	LAY-IN	1,7
B	VARITHERM PLAQUE DIFFUSER	OFFICE	8"	24"x24"	LAY-IN	1,7,8
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	16"x16"	BEVELLED	1,3,5,6
D	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	SERVING	VARIES	16"x16"	SURFACE	1,3,5,6
E	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING	6"	12"x12"	SURFACE	1,3,5,6
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING / KITCHEN / MFA	VARIES	24"x24"	LAY-IN	1,7,8
FF	PRICE MODEL 80FF STEEL FILTER RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND 2" FILTER FRAME.	MFA	24"x24"	24"x24"	LAY-IN	1,7,8
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	VARIES	10"x10"	BEVELLED	1,2,3,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS / ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6
NOTES	• NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004					
REMARKS	1. STANDARD OFF WHITE FINISH. 2. PROVIDE MODEL VCS3 NECK DAMPER. 3. SEE DRAWING M-101 FOR THROW. 4. PROVIDE MODEL VCRY NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN. 5. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY. 6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 3/M-101. 7. FACTORY INSULATED R-6 BACKPAN. 8. PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.					



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10/03/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
DATE: 02/19/2024
PRINTED FOR:
CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION
4 10/03/2024 Construction Set

CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
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SHEET
EQUIPMENT SCHEDULES
- LENNOX

SHEET NUMBER

M-601

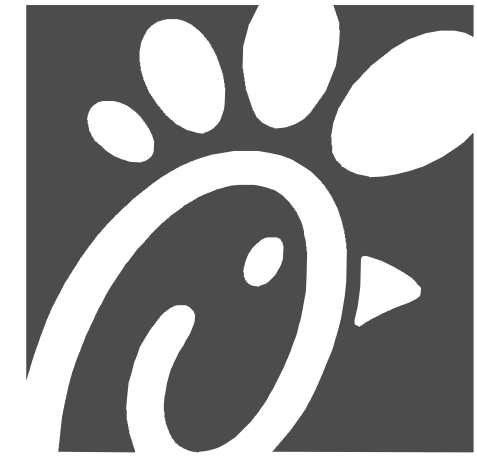
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30-LE-05562-M-602-VENTILATION SCHEDULES

VENTILATION SCHEDULE																							
General			Ventilation												Exhaust								
Room #	Room Name	Area A, ft ²	People			Area				Breathing Zone Outdoor Airflow CFM V _{bx}	Zone Air Distribution Effectiveness E _z	Zone Outdoor Airflow CFM V _{dz}	Primary Zone Airflow CFM V _{px}	Primary Outdoor Air Fraction Z _p	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM			
			Occupant Density People/1,000 ft ²	Occupants People P _s	Outdoor Airflow Rate CFM/Person R _p	Outdoor Airflow CFM P _s x R _p	Outdoor Airflow Rate CFM/ft ² R _a	Outdoor Airflow CFM A _s x R _a	Required Exhaust Rate CFM/ft ²							Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM				
			Served by	Supply	Exhaust																		
1	Kitchen	880	20	18	7.5	135	0.12	106	241	0.8	301	7,325	0.04	1,578	0.70	616	-	-	-	-	3,315	AC#1 / ALT AC#1	EF-1 / EF-2
2	Kitchen (Dish Washing)	128	15	2	7.5	15	0.18	23	38	0.8	48	800	0.06	172	-	-	-	-	-	-	-	AC#1 / ALT AC#1	-
Total Area			1,008				Total V _{bx}			279	Total Supply Airflow			8,125			1,750	Actual Outdoor Airflow					
							Diversity (D)			1.00	Maximum Z _p			0.06									
							Uncorrected Outdoor Air Intake (V _{oa})			279	System Ventilation Efficiency (E _s)			1.00									
							Required Outdoor Air Intake (CFM)			278													

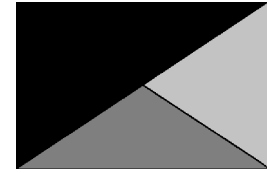
VENTILATION SCHEDULE																							
General			Ventilation													Exhaust							
Room #	Room Name	Area A, ft²	People			Area					Breathing Zone Outdoor Airflow CFM V _{Bz}	Zone Air Distribution Effectiveness E _z	Zone Outdoor Airflow CFM V _{oz}	Primary Zone Airflow CFM V _{Pz}	Primary Outdoor Air Fraction Z _p	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Served by	
			Occupant Density People/1,000 ft²	Occupants People P _s	Outdoor Airflow Rate CFM/Person R _p	Outdoor Airflow CFM P _s x R _p	Outdoor Airflow Rate CFM/ft² R _a	Outdoor Airflow CFM A _s x R _a	Required Exhaust Rate CFM/ft²	Total Required Exhaust CFM							Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM				
			Supply	Exhaust																			
5	Meal Fulfillment Area	460	15	7	7.5	52.5	0.18	83	135	0.8	170	4,375	0.04	1,075	-	-	-	-	-	-	AC#2 /ALT AC#2	-	
Total Area			460	Total V _{Bz}					135	Total Supply Airflow			4,375	1,075			Actual Outdoor Airflow						
				Diversity (D)					1.00	Maximum Z _p			0.03										
				Uncorrected Outdoor Air Intake (V _{oa})					135	System Ventilation Efficiency (E _s)			1.00										
				Required Outdoor Air Intake (CFM)					135														

VENTILATION SCHEDULE																							
General			Ventilation												Exhaust								
Room #	Room Name	Area A, ft²	People			Area				Breathing Zone Outdoor Airflow CFM V _{bx}	Zone Air Distribution Effectiveness E _z	Zone Outdoor Airflow CFM V _{dz}	Primary Zone Airflow CFM V _{px}	Primary Outdoor Air Fraction Z _p	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Served by		
			Occupant Density People/1,000 ft²	Occupants People P _s	Outdoor Airflow Rate CFM/Person R _p	Outdoor Airflow CFM P _s × R _p	Outdoor Airflow Rate CFM/ft² R _a	Outdoor Airflow CFM A _s × R _a	Required Exhaust Rate CFM/ft²							Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM		Supply	Exhaust	
1	Dining	1,209	70	85	7.5	637.5	0.18	218	855	0.8	1069	4,000	0.267	971	-	-	-	-	-	-	AC#3 / ALT AC#3	-	
2	Serving	313	15	5	7.5	38	0.18	56	94	0.8	118	500	0.23	121	-	-	-	-	-	-	AC#3 / ALT AC#3	-	
3	Men's RR	152	-	-	-	-	-	-	-	0.8	-	125	-	30	-	-	Continuous	50	100	150	AC#3 / ALT AC#3	EF-3	
4	Women's RR	152	-	-	-	-	-	-	-	0.8	-	125	-	30	-	-	Continuous	50	100	150	AC#3 / ALT AC#3	EF-3	
5	RR Vestibule	134	-	-	-	-	0.06	8	8	0.8	11	100	0.10	24	-	-	-	-	-	-	AC#3 / ALT AC#3	-	
6	Entry Vestibule	73	-	-	-	-	0.06	4	4	0.8	6	400	0.01	97	-	-	-	-	-	-	AC#3 / ALT AC#3	-	
Total Area		2,033					Total V _{bx}				961	Total Supply Airflow				5,250	1,275 Actual Outdoor Airflow						
							Diversity (D)				0.82	Maximum Zp				0.267							
							Uncorrected Outdoor Air Intake (V _{oa})				910	System Ventilation Efficiency (E _s)				0.80							
							Required Outdoor Air Intake (CFM)				1,138												

VENTILATION SCHEDULE																							
General			Ventilation												Exhaust								
Room #	Room Name	Area A, ft ²	People			Area					Breathing Zone Outdoor Airflow CFM V _{bx}	Zone Air Distribution Effectiveness E _z	Zone Outdoor Airflow CFM V _{dz}	Primary Zone Airflow CFM V _{px}	Primary Outdoor Air Fraction Z _p	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Served by	
			Occupant Density People/1,000 ft ²	Occupants People P _s	Outdoor Airflow Rate CFM/Person R _p	Outdoor Airflow CFM P _s x R _p	Outdoor Airflow Rate CFM/ft ² R _a	Outdoor Airflow CFM A _s x R _a	Required Exhaust Rate CFM/ft ²	Total Required Exhaust CFM							Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Supply		Exhaust	
1	Team Member Room	158	50	8	5	40	0.06	9	49	0.8	62	600	0.10	146	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
2	Service	157	-	-	-	-	0.12	19	19	0.8	24	185	0.13	45	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
3	Beverage	166	-	-	-	-	0.12	20	20	0.8	25	275	0.09	67	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
4	Utility	100	-	-	-	-	0.12	12	12	0.8	15	300	0.05	73	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
5	Dry Storage	471	-	-	-	-	0.12	57	57	0.8	71	150	0.47	36	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
6	Office	79	5	1	5	5	0.06	5	10	0.8	13	100	0.12	24	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
7	Employee RR	62	-	-	-	-	-	-	-	0.8	-	40	-	10	-	-	Intermittent	70	70	75	AC#4 / ALT AC#4	EF#4	
8	Riser	19	-	-	-	-	0.12	2	2	0.8	3	100	0.03	24	-	-	-	-	-	-	AC#4 / ALT AC#4	-	
Total Area			1,212				Total V _{bx}			169	Total Supply Airflow			1,750	425			Actual Outdoor Airflow					
						Diversity (D)			1.00	Maximum Zp			0.47										
						Uncorrected Outdoor Air Intake (V _{oa})			169	System Ventilation Efficiency (E _s)			0.60										
						Required Outdoor Air Intake (CFM)			281														



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05/22/24

CHICK-FIL-A
Centerville Hwy & Zoar
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3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024

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SHEET
VENTILATION
SCHEDULES

SHEET NUMBER

M-602

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30-LE-05562-M-602-VENTILATION SCHEDULES

VENTILATION SCHEDULE																						
General			Ventilation													Exhaust				Served by		
Room #	Room Name	Area Az ft2	People			Area			Breathing Zone Outdoor Airflow CFM	Zone Air Distribution Effectiveness	Zone Outdoor Airflow CFM	Primary Zone Airflow CFM	Primary Outdoor Air Fraction	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM			
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra							Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture		Required Fixture Exhaust CFM		
1	Kitchen	880	20	18	7.5	135	0.12	106	241	0.8	301	7,325	0.04	1,578	0.70	616	-	-	-	3,315	ACH1L	EF-1 / EF-2
2	Kitchen (Dish Washing)	128	15	2	7.5	15	0.18	23	38	0.8	48	800	0.06	172	-	-	-	-	-	ACH1L	-	
Total Area 1,008						Total Vbz 279			Total Supply Airflow 8,125			1,750			Actual Outdoor Airflow							
						Diversity (D) 1.00			Maximum Zp 0.06													
						Uncorrected Outdoor Air Intake (Vou) 279			System Ventilation Efficiency (Ev) 1.00													
						Required Outdoor Air Intake (CFM) 278																

VENTILATION SCHEDULE																					
General			Ventilation												Exhaust				Served by		
Room #	Room Name	Area Az ft2	People			Area			Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area		Toilet				Actual Exhaust CFM
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Ax x Ra							Required Exhaust Rate CFM/ft2	Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture				Required Fixture Exhaust CFM
5	Meal Fulfillment Area	460	15	7	7.5	52.5	0.18	83	135	0.8	170	4.375	0.04	1,075	-	-	-	-	-	ACH2L	-
Total Area 460						Total Vbz 135			Total Supply Airflow 4,375			1,075 Actual Outdoor Airflow									
						Diversity (D) 1.00			Maximum Zp 0.03												
						Uncorrected Outdoor Air Intake (Vou) 135			System Ventilation Efficiency (Ev) 1.00												
						Required Outdoor Air Intake (CFM) 135			135												

VENTILATION SCHEDULE																							
General			Ventilation												Exhaust								
Room #	Room Name	Area Az ft2	People				Area			Breathing Zone Outdoor Airflow CFM CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Served by		
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/ft2							Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM				
1	Dining	871	100	87	7.5	652.5	0.18	157	810	0.8	1013	3,300	0.307	802	-	-	-	-	-	-	-	ACH3L	-
2	Serving	657	15	10	7.5	75	0.18	118	193	0.8	241	1,050	0.229	255	-	-	-	-	-	-	-	ACH3L	-
3	Men's RR	213	-	-	-	-	-	-	-	0.8	-	150	-	36	-	-	Continuous	50	150	200	ACH3L	EF-3	
4	Women's RR	206	-	-	-	-	-	-	-	0.8	-	150	-	36	-	-	Continuous	50	150	200	ACH3L	EF-3	
5	RR Vestibule	110	-	-	-	-	0.06	7	7	0.8	9	100	0.09	24	-	-	-	-	-	-	ACH3L	-	
6	Entry Vestibule	73	-	-	-	-	0.06	4	4	0.8	6	300	0.02	73	-	-	-	-	-	-	ACH3L	-	
7	Physical Play	63	7	1	20	20	0.18	11	31	0.8	39	200	0.195	49	-	-	-	-	-	-	ACH3L	-	
Total Area 2,193							Total Vbz 1,045				Total Supply Airflow 5,250			1,275		Actual Outdoor Airflow							
							Diversity (D) 0.90				Maximum Zp 0.307												
							Uncorrected Outdoor Air Intake (Vou) 970				System Ventilation Efficiency (Ev) 0.80												
							Required Outdoor Air Intake (CFM) 1,213																

VENTILATION SCHEDULE																						
General			Ventilation												Exhaust							
Room #	Room Name	Area Az ft2	People				Area			Breathing Zone Outdoor Airflow CFM Vbz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area		Toilet		Actual Exhaust CFM	Served by	
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/ft2 Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/ft2							Total Required Exhaust CFM	Exhaust Control/ Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM		Supply	Exhaust
1	Team Member Room	132	50	7	5	35	0.06	8	43	0.8	54	500	0.108	122	-	-	-	-	-	-	ACH4L	-
2	Service/Beverage/Utility/Storage	666	-	-	-	-	0.12	80	80	0.8	100	825	0.121	200	-	-	-	-	-	-	ACH4L	-
3	Office	78	5	1	5	5	0.06	5	10	0.8	13	200	0.065	49	-	-	-	-	-	-	ACH4L	-
4	Flex Room	50	-	-	-	-	0.12	6	6	0.8	8	75	0.107	18	-	-	-	-	-	-	ACH4L	-
5	Vestibule	75	-	-	-	-	0.06	5	5	0.8	6	150	0.04	36	-	-	-	-	-	-	ACH4L	-
Total Area 1,001							Total Vbz 144			Total Supply Airflow 1,750					425	Actual Outdoor Airflow						
							Diversity (D) 1.00			Maximum Zp 0.121												
							Uncorrected Outdoor Air Intake (Vou) 144			System Ventilation Efficiency (Ev) 1.00												
							Required Outdoor Air Intake (CFM) 144															



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10/03/24

CHICK-FIL-A
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FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
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4 10/03/2024 Construction Set

CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
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SHEET
VENTILATION
SCHEDULES

SHEET NUMBER

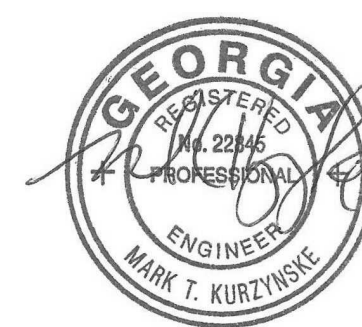
M-602



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05/22/24

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Church Road
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Snellville, GA 30039

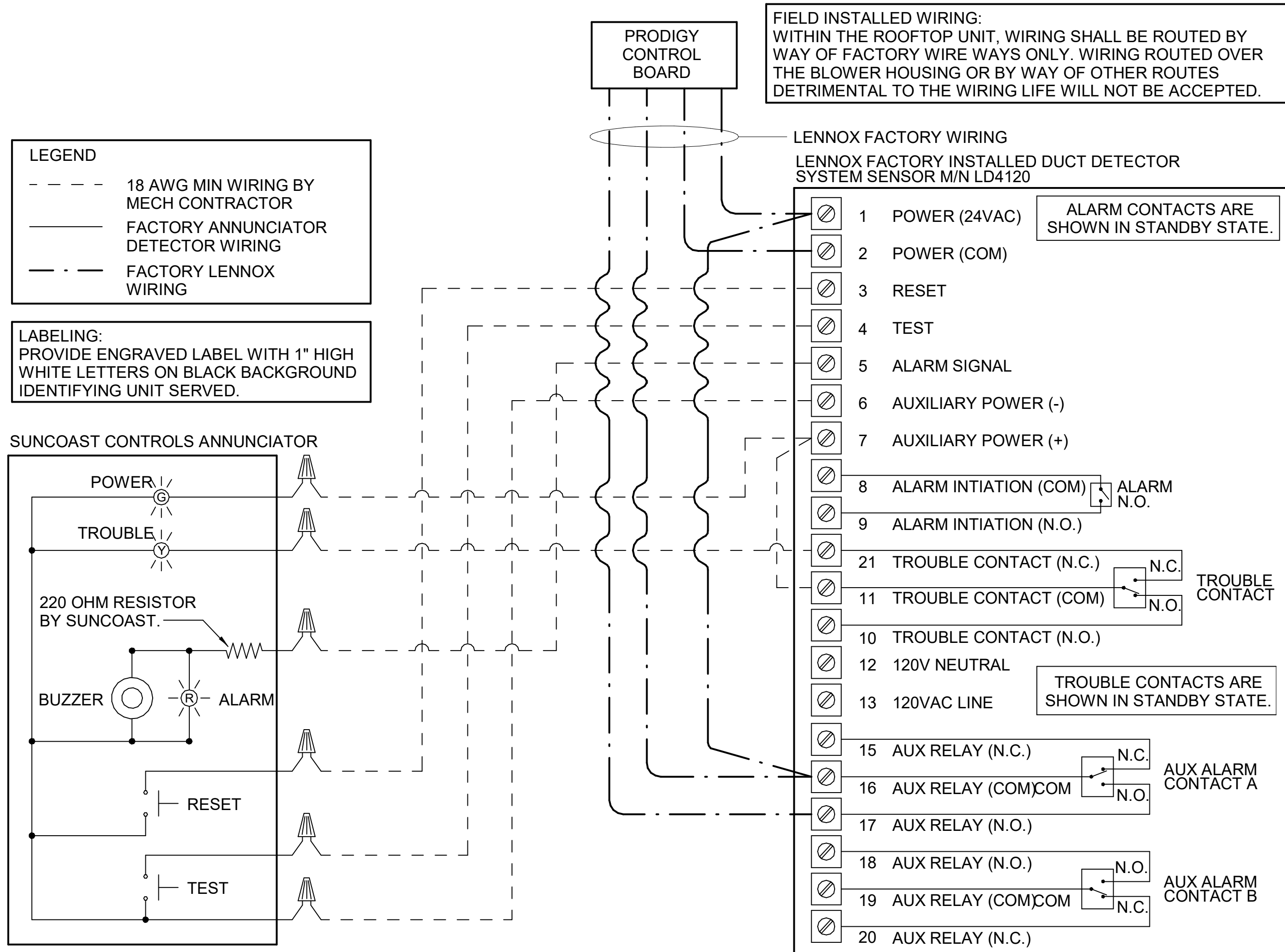
FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
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CONSULTANT PROJECT # 24024.CC.S
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SHEET
CONTROL WIRING
DIAGRAMS - LENNOX
SHEET NUMBER

M-701

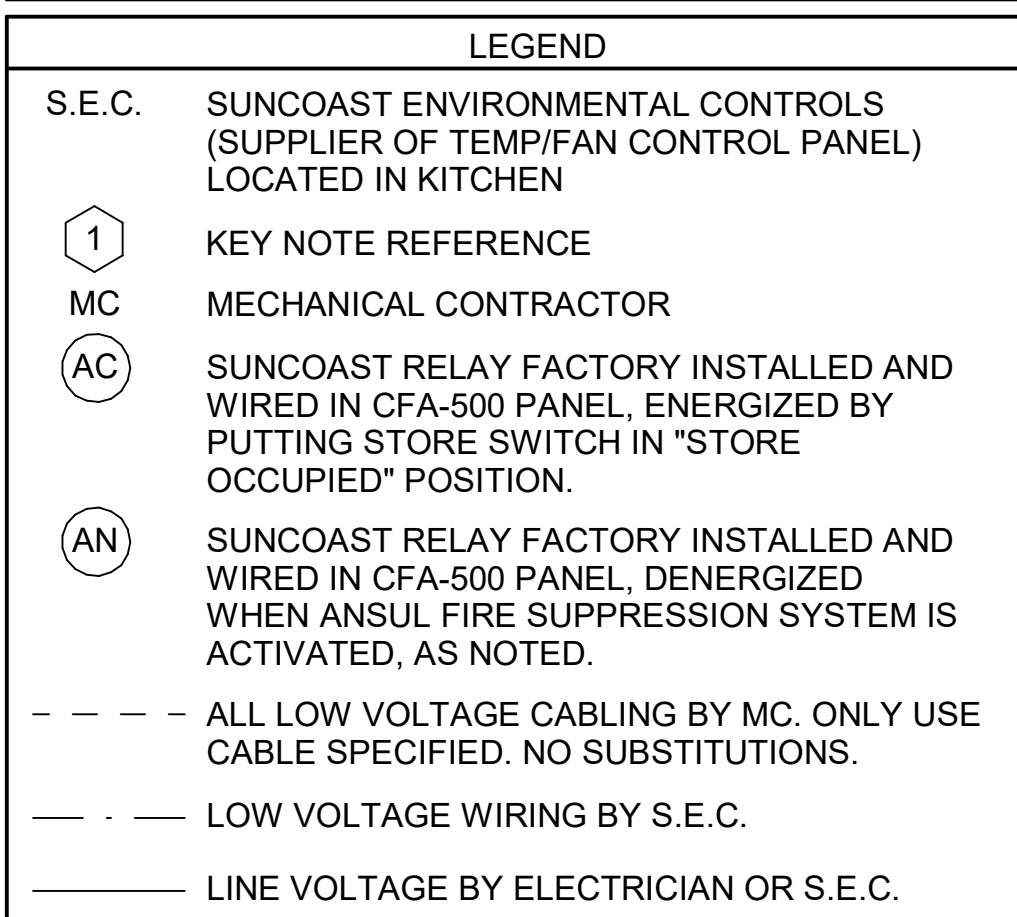
PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION.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



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX
NOT TO SCALE

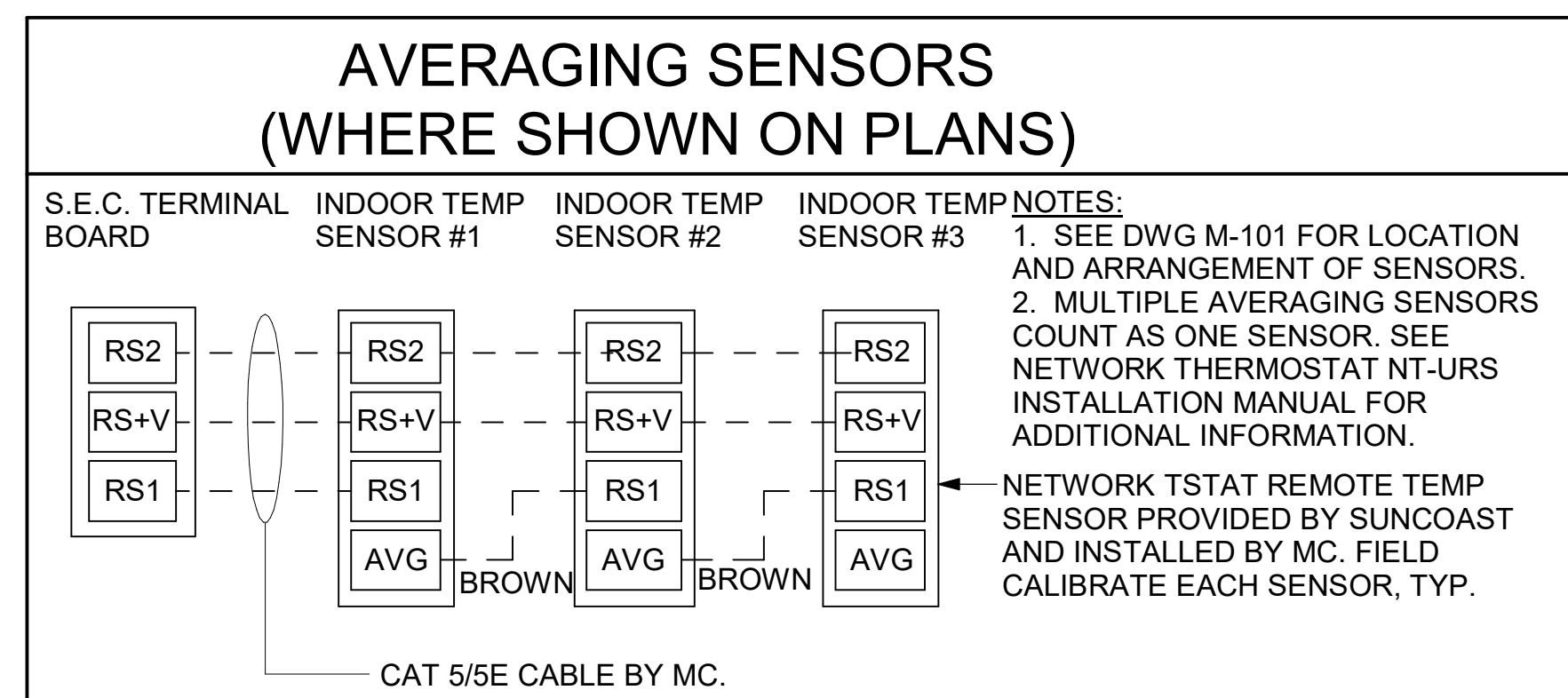
- NOTES:
- MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
 - SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
 - SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
 - PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "ACH2 HUMIDITY SENSOR" OR "ACH2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.

- KEYED NOTES:
- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
 - 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.
 - 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 OF CONDUIT. FIELD CALIBRATE EACH SENSOR.

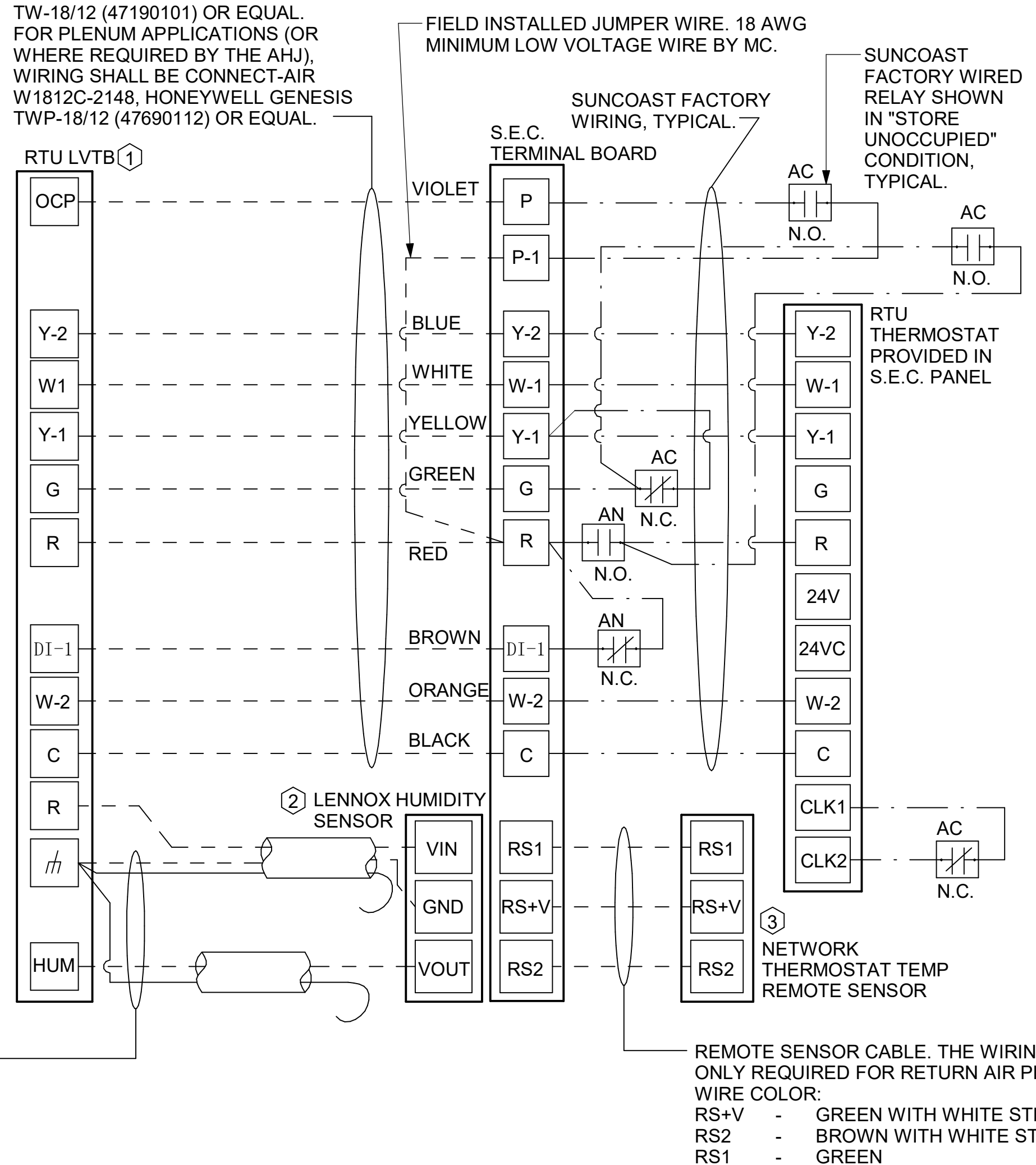


USE TWO SEPARATE SHIELDED CABLES CONTAINING 18AWG MINIMUM, TWISTED PAIR CONDUCTORS WITH OVERALL SHIELD, BELDEN TYPE 8760 OR 88760 (PLENUM) OR EQUIVALENT. INSTALL PER LENNOX'S RELATIVE HUMIDITY SENSOR INSTALLATION INSTRUCTIONS.

2 ROOFTOP UNIT CONTROL WIRING - LENNOX
NOT TO SCALE



THERMOSTAT CABLE BY MC. THE WIRING SHALL BE SOLID 18 AWG, 12 CONDUCTOR THERMOSTAT WIRE SUCH AS HONEYWELL GENESIS TW-18/12 (47190101) OR EQUAL FOR PLENUM APPLICATIONS (OR WHERE REQUIRED BY THE AHJ), WIRING SHALL BE CONNECT-AIR W1812C-2148, HONEYWELL GENESIS TWP-18/12 (47690112) OR EQUAL.

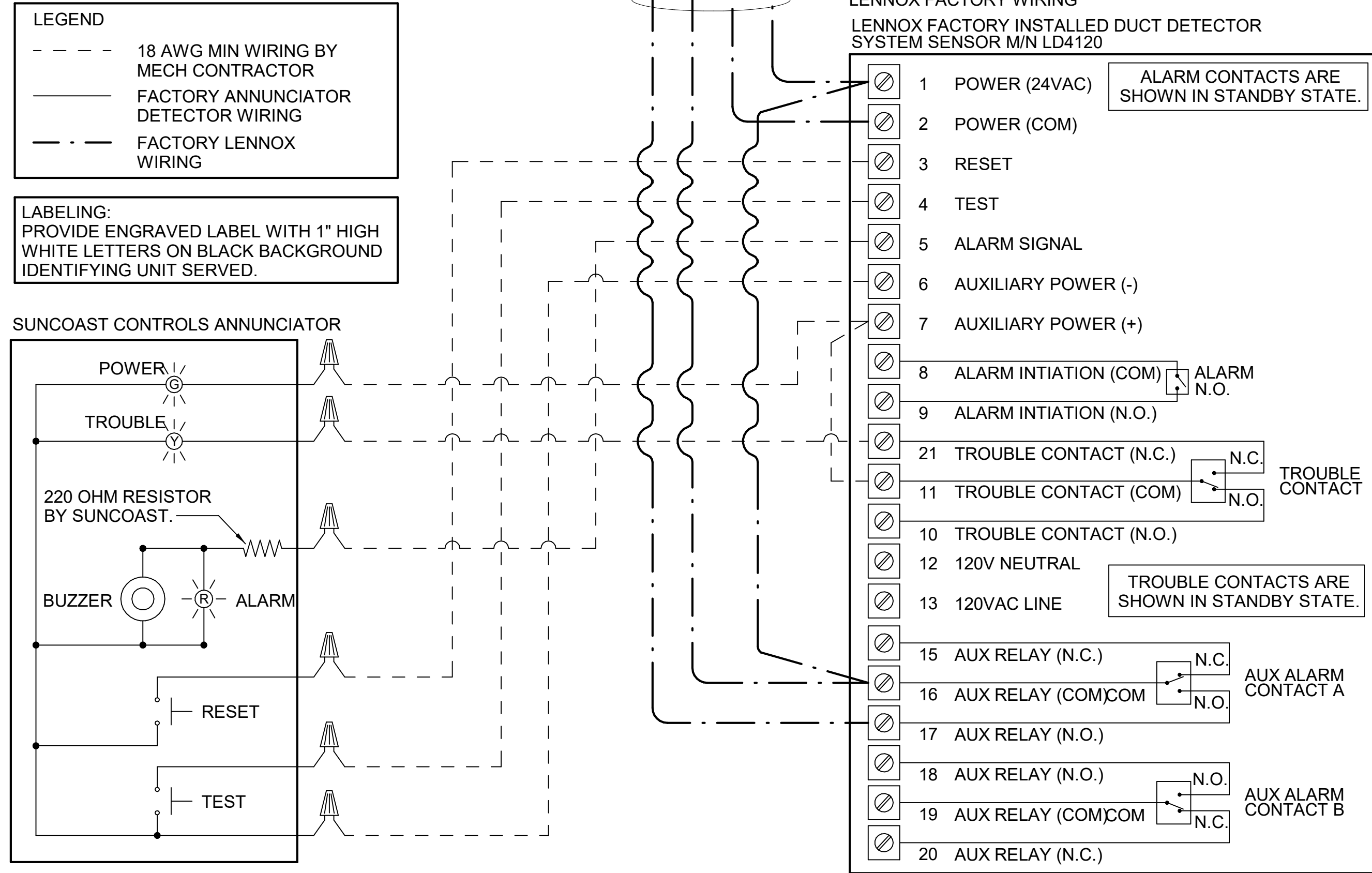


- LENNOX PRODIGY 2.0 OR CORE UNIT CONTROLLER SETTINGS:
- FOR ALL RTU'S EXCEPT AC#1, ELIMINATE THE MORNING WARMUP/OSA DAMPER DELAY. THE MENU PATH IS:
 - MAIN MENU > SETTINGS > RTU OPTIONS > EDIT PARAMETERSFOR GAS HEAT UNITS (LGT):
 - CHANGE PARAMETER #65 SETTING TO 1FOR ELECTRIC HEAT UNITS (LCT):
 - CHANGE PARAMETER #58 TO 1ON UNIT AC#1:
 - FOR GAS HEAT (LG) LEAVE AT 60-MINUTE DEFAULT
 - FOR ELECTRIC HEAT (LC) CHANGE VALUE TO EQUAL 90-MINUTE
 - FOR HUMIDITROL UNITS THE MENU PATH IS:
 - MAIN MENU > SETTINGS > RTU OPTIONS > DEHUMIDIFIER MODE > NO CONDITIONSSELECT LOCAL SENSOR AND SAVE
 - SET POINT: 60%
 - DEHUMID DEADBAND: 2%
 - FOR ALL UNITS, SET BLOWER TO OPERATE AT ONE AIRFLOW FOR ALL MODES. MENU PATH IS:
 - MAIN MENU > INSTALL > TEST AND BALANCE > BLOWERSET ALL HEATING AND COOLING CFM VALUES TO THE SAME VALUE AS SCHEDULED.
 - ADJUST AIRFLOW BY MEANS OF ADJUSTABLE BLOWER MOTOR SHEAVE.

- LENNOX FRESH AIR HEATING SETUP WHEN SPECIFIED:
- INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
 - 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.
 - FOR PRODIGY 2.0 OR CORE UNIT CONTROLLER WITHIN MAIN MENU GO TO SET-UP TO TEST AND BALANCE TO DAMPER. FOLLOW MENU PATH SET FRESH AIR HEATING ENABLE TO "YES" SET FAH SETPOINT TO 66F THIS WILL TEMPER SUPPLY AIR BELOW 66F WITH INTERMITTENT HEATING WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT.
 - CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #157. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER VALUE TO 14 FOR A 14F FAH DEADBAND AND SAVE.
 - CHANGE PRODIGY 2.0 OR CORE UNIT CONTROLLER PARAMETER #158. WITHIN MAIN MENU GO TO SETTINGS TO RTU OPTIONS TO EDIT PARAMETER ADJUST VALUE TO 300 SECONDS FOR 5 MINUTE CYCLE TIME AND SAVE.

Autodesk Docs://GA_05562_Centerville Hwy& Zoar ChurchRd_MEC.rvt
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30-LE-05562-M-701-CONTROL WIRING DIAGRAMS - LENNOX

1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX



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

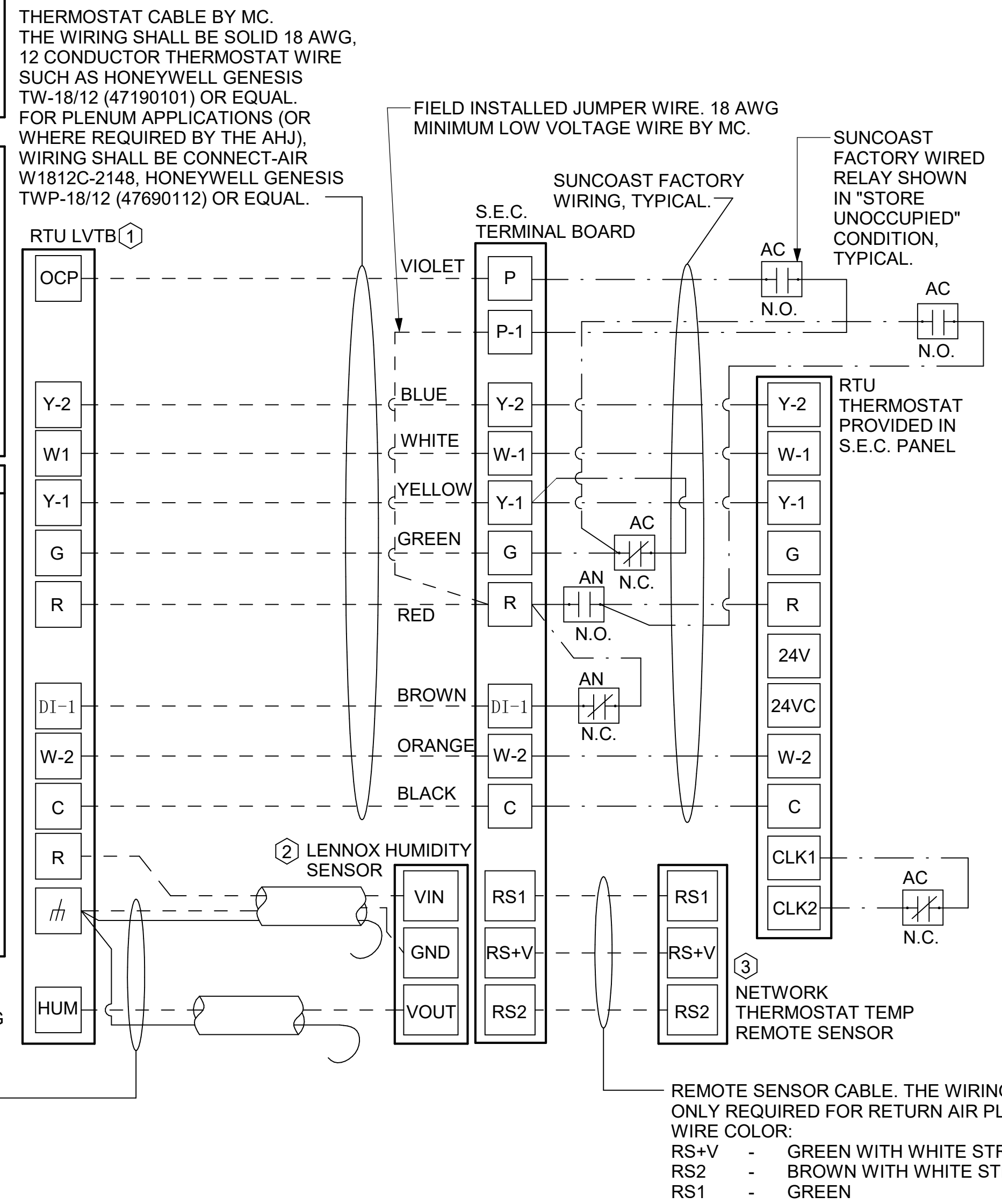
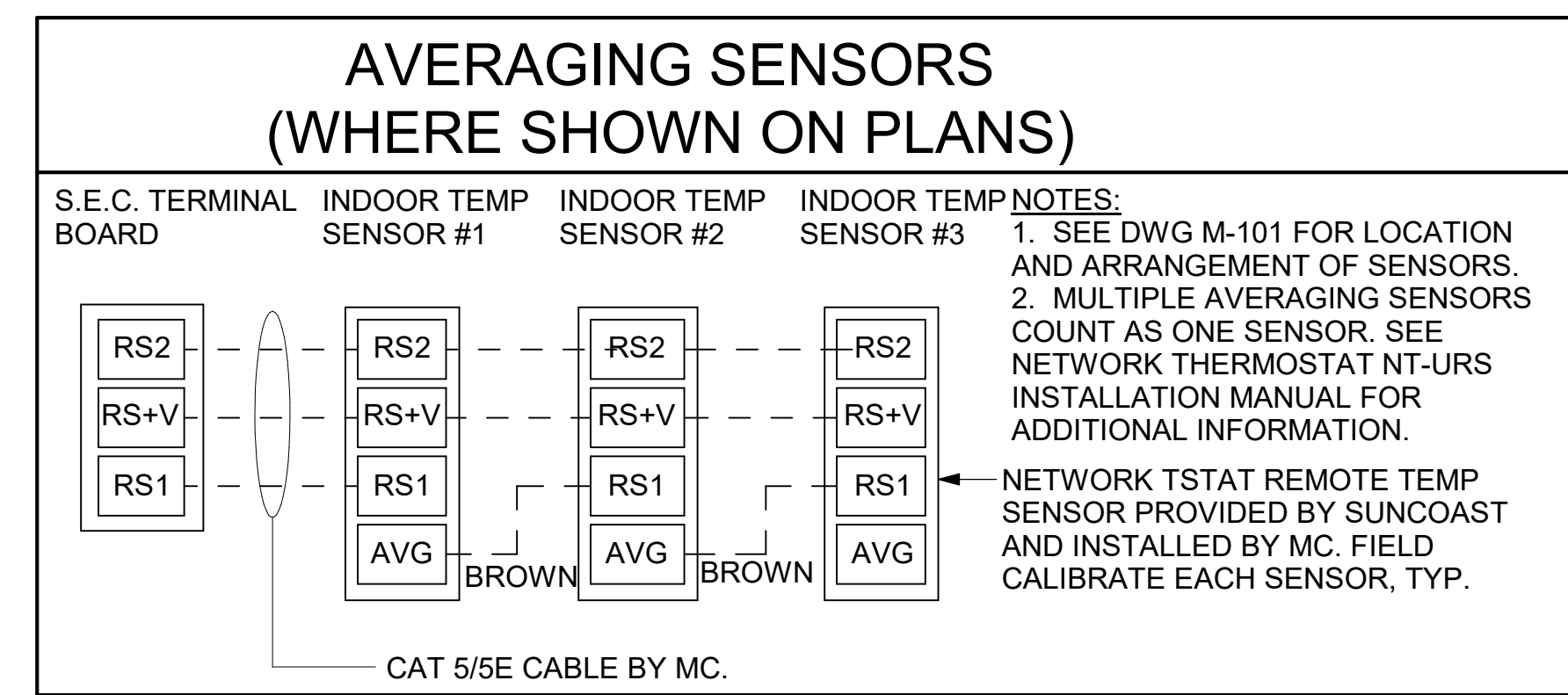
- KEYED NOTES:**
- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
 - HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
 - NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OF 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 PUTTING STORE SWITCH IN "STORE OCCUPIED" POSITION.
(AN)	SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
---	ALL LOW VOLTAGE CABLING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS.
- - -	LOW VOLTAGE WIRING BY S.E.C.
—	LINE VOLTAGE BY ELECTRICIAN OR S.E.C.

USE TWO SEPARATE SHIELDED CABLES CONTAINING 18AWG MINIMUM, TWISTED PAIR CONDUCTORS WITH OVERALL SHIELD. BELDEN TYPE 8760 OR 88760 (PLENUM) OR EQUIVALENT. INSTALL PER LENNOX'S RELATIVE HUMIDITY SENSOR INSTALLATION INSTRUCTIONS.

2 ROOFTOP UNIT CONTROL WIRING - LENNOX

NOT TO SCALE



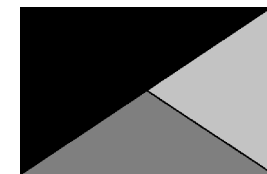
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 - CHANGE PARAMETER #58 TO 1
 - ON UNIT AC#1
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10/03/24

CHICK-FIL-A
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Church Road
3366 Centerville Hwy
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FSR#05562

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SHEET CONTROL WIRING DIAGRAMS - LENNOX
SHEET NUMBER

M-701

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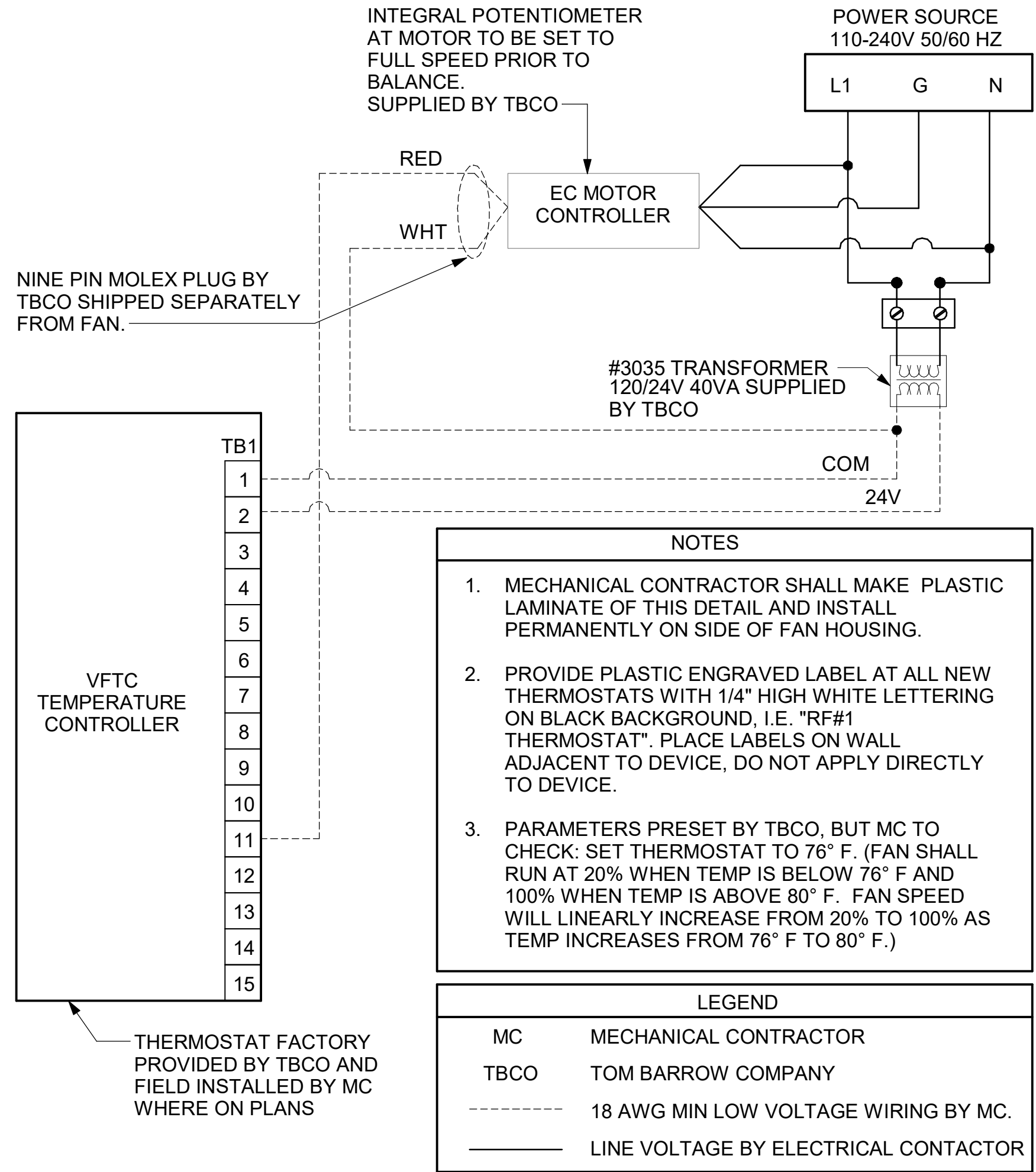
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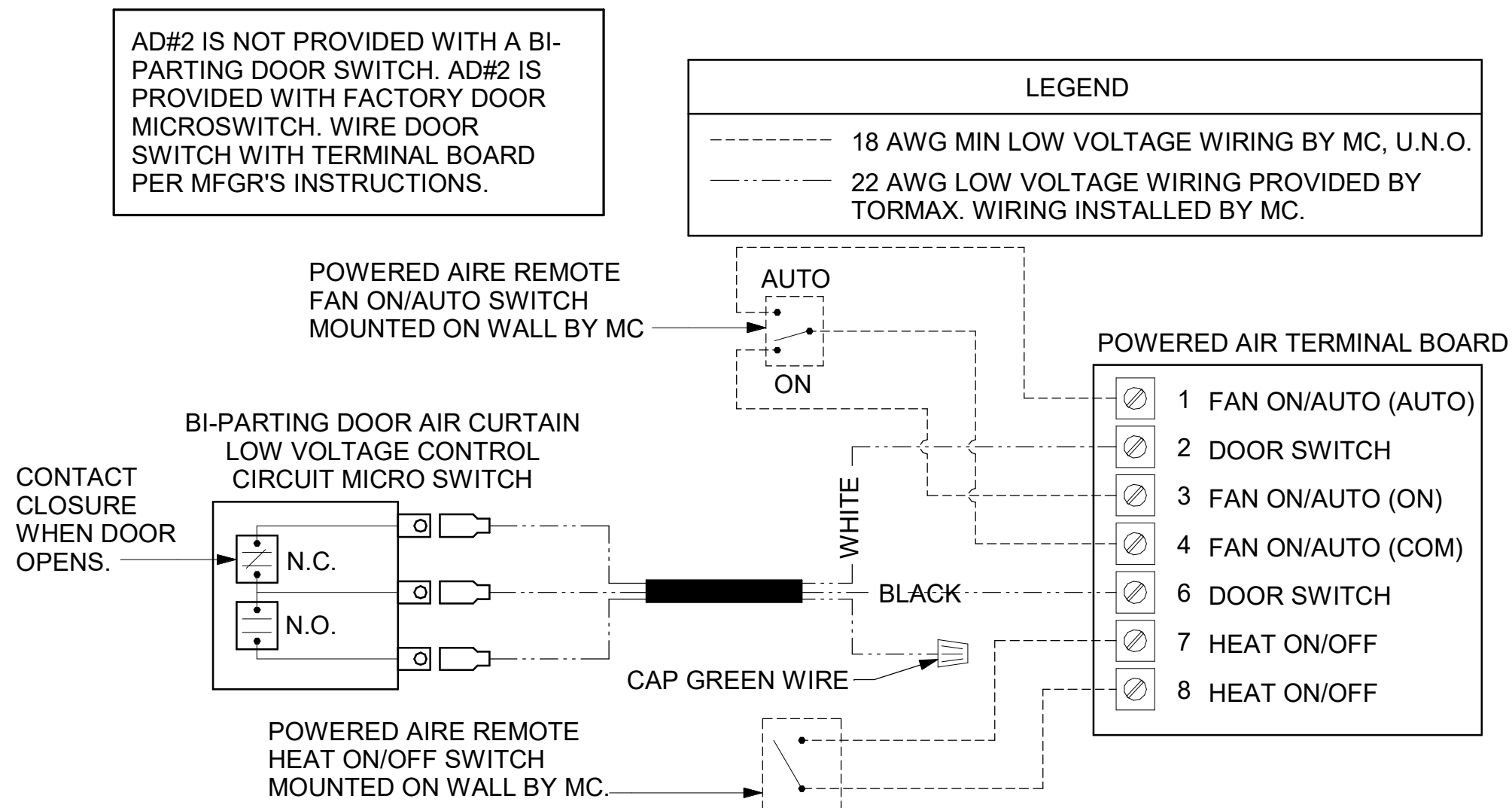
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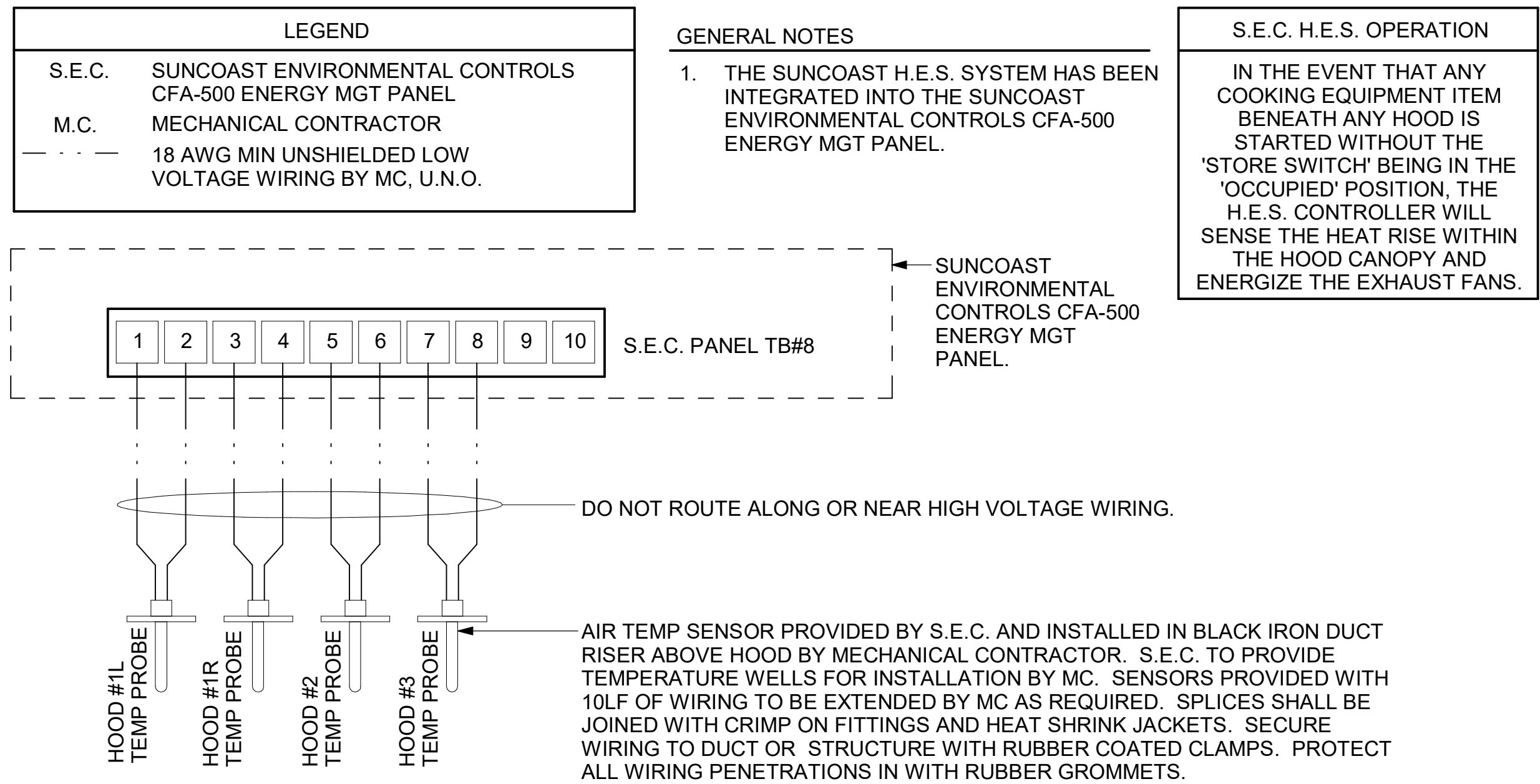
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1 TECH CLOSET CONTROL DIAGRAM
NOT TO SCALE



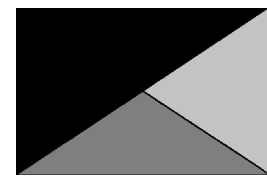
2 AIR CURTAIN WIRING DIAGRAM
NOT TO SCALE



3 HOOD FAN/EQUIPMENT INTERLOCK - 3 Hood (4 Collars) - CFA500 Integrated
1/4" = 1'-0"



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Snellville, GA 30039

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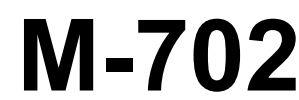
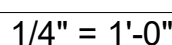
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SHEET
CONTROL WIRING
DIAGRAMS

SHEET NUMBER

M-702



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10/22/2024 3:31:59 PM
30-LE-05562-M-703-SEQUENCE OF OPERATIONS

NOTE:
THERE IS NO DEDICATED MAKE UP AIR SYSTEM FOR THIS STORE.
ALL OUTSIDE AIR IS INTRODUCED VIA THE GAS PACKAGE RTUS.
PER THE SEQUENCE OF OPERATIONS, THE OUTSIDE AIR
DAMPERS FOR THE RTUS OPEN WHEN THE STORE OPENS AND
CLOSE WHEN THE STORE CLOSES. VENTILATION IS PROVIDED AT
ALL TIMES WHILE THE STORE IS IN OPERATION.

FOR THE KITCHEN SPECIFICALLY, THIS BALANCES THE KITCHEN
AS FOLLOWS: 3315 CFM HOOD EXHAUST, 1750 CFM OUTSIDE AIR
FROM AC#1. THE KITCHEN IS NEGATIVE TO THE REST OF THE
BUILDING BY 1,565 CFM. THIS AIR IS BROUGHT BACK TO THE
KITCHEN VIA THE PASS THROUGH OPENING AND SERVICE AREAS.

SHEET ADDED TO SET

IF THIS PANEL HAS AN OCCUPANCY OVERRIDE FEATURE, AFTER PRESSING THE OVERRIDE BUTTON THE STORE WILL GO INTO OCCUPIED FOR A PERIOD OF TWO (2) HOURS.
(BOTH THE "SYSTEM ON" AND "NIGHT SETBACK" INDICATORS WILL BOTH BE ON) PRESS AND HOLD OVERRIDE BUTTON FOR FIVE (5) SECONDS TO CANCEL OCCUPANCY OVERRIDE.
SET INTERNAL CLOCK (THEBEN TR-610) TO STORE HOURS FOR AUTOMATIC STORE OCCUPANCY CONTROL.

T500 PANEL SEQUENCE OF OPERATION

MORNING OPENING SEQUENCE OF OPERATION

- 1 WHEN THE STORE OCCUPANCY SWITCH (SW-1) IS PLACED IN THE OCCUPIED POSITION:
 - A. THE AIR CONDITIONING STATUS "SYSTEM ON" LIGHT WILL COME ON INDICATING THE STORE HAS BEEN PLACED IN THE OCCUPIED MODE.
 - B. THE THERMOSTATS WILL CHANGE TO THE PRESET "OCCUPIED" TEMPERATURE SETPOINTS.
 - C. THE EVAPORATOR FANS FOR ALL A/C UNITS EXCEPT THE PLAYROOM UNIT SHALL RUN CONTINUOUS ON OCCUPIED MODE (THE PLAYROOMS EVAPORATOR FAN WILL ONLY RUN WHEN THE THERMOSTAT CALLS FOR HEAT OR COOL).
 - D. THE A/C UNITS DAMPERS WILL OPEN TO THE PRE-SET POSITIONS.
 - E. THE COOKING EXHAUST HOODS WILL ENERGIZE.
 - F. ALL INTERIOR LIGHTS THAT ARE CONTROLLED BY THIS PANEL WILL COME ON.
- 2 SIGNAGE AND BUILDING LIGHT OPERATION:
 - A. PLACE THE SIGNAGE AND BUILDING LIGHTS SWITCH (SW-2) IN AUTO MODE AT OPENING. THIS ALLOWS THE PHOTOCELL CONTROLLER TO TURN ON THE LIGHTS WHEN IT IS DARK OUTSIDE BUT ONLY WHILE THE STORE OCCUPANCY (SW-1) SWITCH IS IN THE OCCUPIED MODE.
 - B. PLACING THE BUILDING LIGHTS SWITCH (SW-2) IN THE OVERRIDE (ON) OR (OFF) POSITION WILL OVERRIDE THE EXTERIOR SIGNAGE AND BUILDING LIGHTS ON OR OFF.
- 3 PARKING LOT LIGHT SWITCH OPERATION:
 - A. LEAVING THE PARKING LOT LIGHT SWITCH (SW-3) IN AUTO MODE ALLOWS THE PHOTOCELL CONTROLLER TO TURN ON THE LIGHTS WHEN IT IS DARK OUTSIDE IF THE STORE IS IN THE "SYSTEM ON" MODE. LOT LIGHTS WILL ENERGIZE APPROXIMATELY 2 MINUTES AFTER THE BUILDING LIGHTS.
 - B. FOR EMPLOYEE SAFETY THE FACTORY PROGRAMMED MILLENNIUM PLC CONTROLLER SHALL OVERRIDE THE PARKING LOT LIGHTS ON FROM 5AM UNTIL SUNRISE MONDAY THROUGH SATURDAY.
 - C. PLACING THE PARKING LOT SWITCH (SW-3) IN THE OVERRIDE (ON) POSITION WILL OVERRIDE THE PARKING LOT LIGHTS. THIS SHOULD ONLY BE NECESSARY DURING MAINTENANCE (CHECKING BULBS).

EVENING CLOSING SEQUENCE OF OPERATION

- 1 SIGNAGE AND BUILDING LIGHT OPERATION:
 - A. AT CLOSE OF BUSINESS, PLACE THE SIGNAGE AND BUILDING LIGHTS SWITCH (SW-2) INTO THE OFF POSITION. THIS TURNS OFF THE BUILDING AND SIGN LIGHTS INDICATING TO CUSTOMERS THAT THE STORE IS NOW CLOSED.
- 2 WHEN THE STORE OCCUPANCY SWITCH (SW-1) IS PLACED IN THE UN-OCCUPIED POSITION:
 - A. THE AIR CONDITIONING STATUS "NIGHT SETBACK" LIGHT SHALL COME ON INDICATING THE STORE HAS BEEN PLACED INTO THE UN-OCCUPIED MODE.
 - B. THE THERMOSTATS SHALL CHANGE TO THE PRESET "NIGHT SETBACK" SETPOINTS.
 - C. THE EVAPORATOR FANS FOR ALL THE A/C UNITS WILL RUN ONLY WHEN CALLED FOR IN HEAT OR COOL.
 - D. THE A/C UNITS DAMPERS WILL MOVE TO THE CLOSED POSITION.
 - E. THE COOKING EXHAUST HOODS SHALL BECOME DE-ENERGIZED.
 - F. ALL INTERIOR LIGHTS THAT ARE CONTROLLED BY THIS PANEL WILL TURN OFF.
 - G. THE PARKING LOT LIGHTS WILL REMAIN ON FOR 15 MINUTES BEFORE SHUTTING OFF ALLOWING THE EMPLOYEES TO SAFELY EXIT THE BUILDING AND LEAVE THE PREMISES.

EVENING CLOSING SEQUENCE OF OPERATION

- 1 SIGNAGE AND BUILDING LIGHT OPERATION:
 - A. AT CLOSE OF BUSINESS, PLACE THE SIGNAGE AND BUILDING LIGHTS SWITCH (SW-2) INTO THE OFF POSITION. THIS TURNS OFF THE BUILDING AND SIGN LIGHTS INDICATING TO CUSTOMERS THAT THE STORE IS NOW CLOSED.
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 - A. THE AIR CONDITIONING STATUS "NIGHT SETBACK" LIGHT SHALL COME ON INDICATING THE STORE HAS BEEN PLACED INTO THE UN-OCCUPIED MODE.
 - B. THE THERMOSTATS SHALL CHANGE TO THE PRESET "NIGHT SETBACK" SETPOINTS.
 - C. THE EVAPORATOR FANS FOR ALL THE A/C UNITS WILL RUN ONLY WHEN CALLED FOR IN HEAT OR COOL.
 - D. THE A/C UNITS DAMPERS WILL MOVE TO THE CLOSED POSITION.
 - E. THE COOKING EXHAUST HOODS SHALL BECOME DE-ENERGIZED.
 - F. ALL INTERIOR LIGHTS THAT ARE CONTROLLED BY THIS PANEL WILL TURN OFF.
 - G. THE PARKING LOT LIGHTS WILL REMAIN ON FOR 15 MINUTES BEFORE SHUTTING OFF ALLOWING THE EMPLOYEES TO SAFELY EXIT THE BUILDING AND LEAVE THE PREMISES.

FIRE INTERLOCK FUNCTION

- 1 IN THE EVENT OF FIRE UNDER THE COOKING HOOD:
 - A. EXHAUST FANS WILL RUN TO DRAW SMOKE OUT OF THE BUILDING.
 - B. THE INTERIOR LIGHTS THAT ARE CONTROLLED BY THIS PANEL WILL TURN ON.
 - C. ALL INCOMING AIR WILL SHUT OFF INCLUDING ROOFTOP A/C UNIT FANS AND MAKE UP AIR.
 - D. ALL EQUIPMENT UNDER THE COOKING EXHAUST HOOD WILL SHUT DOWN WITH A SHUNT TRIP BREAKER.

ORDER CANOPY SEQUENCE OF OPERATION

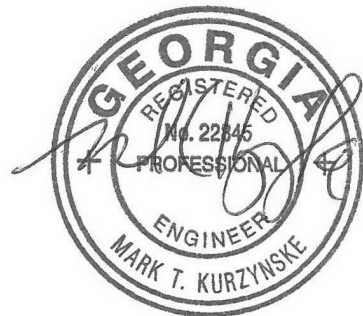
- 1 T500 OCCUPANCY SWITCH IN "STORE OCCUPIED" POSITION & MASTER CANOPY AUTO / OFF SWITCH IN "AUTO" POSITION :
 - A. INFRARED HEATER SWITCH @ CANOPY COLUMN BECOMES ENABLED.
 - B. FAN SWITCH @ CANOPY COLUMN BECOMES ENABLED.
 - C. BROMIC HEATER ROTARY TIMER ON WALL INSIDE OF DRIVE-THRU BECOMES ENABLED.
 - D. CANOPY LIGHTS OVERRIDE SWITCH @ CANOPY COLUMN BECOMES ENABLED, OTHERWISE, LIGHTS WILL AUTOMATICALLY TURN ON @ DUSK BY WAY OF PHOTOCELL.
- 2 T500 OCCUPANCY SWITCH IN "STORE UNOCCUPIED" POSITION OR MASTER CANOPY "AUTO / OFF" SWITCH IN "OFF" POSITION :
 - A. INFRARED HEATERS ARE DISABLED.
 - B. COOLING FANS ARE DISABLED.
 - C. BROMIC HEATER @ MEAL DELIVERY CANOPY IS DISABLED.
 - D. CANOPY LIGHTS ARE OFF.



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



**Kurzynske
& Associates**
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203



10/03/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
PRINTED FOR:
CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION
1 05/22/2024 Plan Review Comments

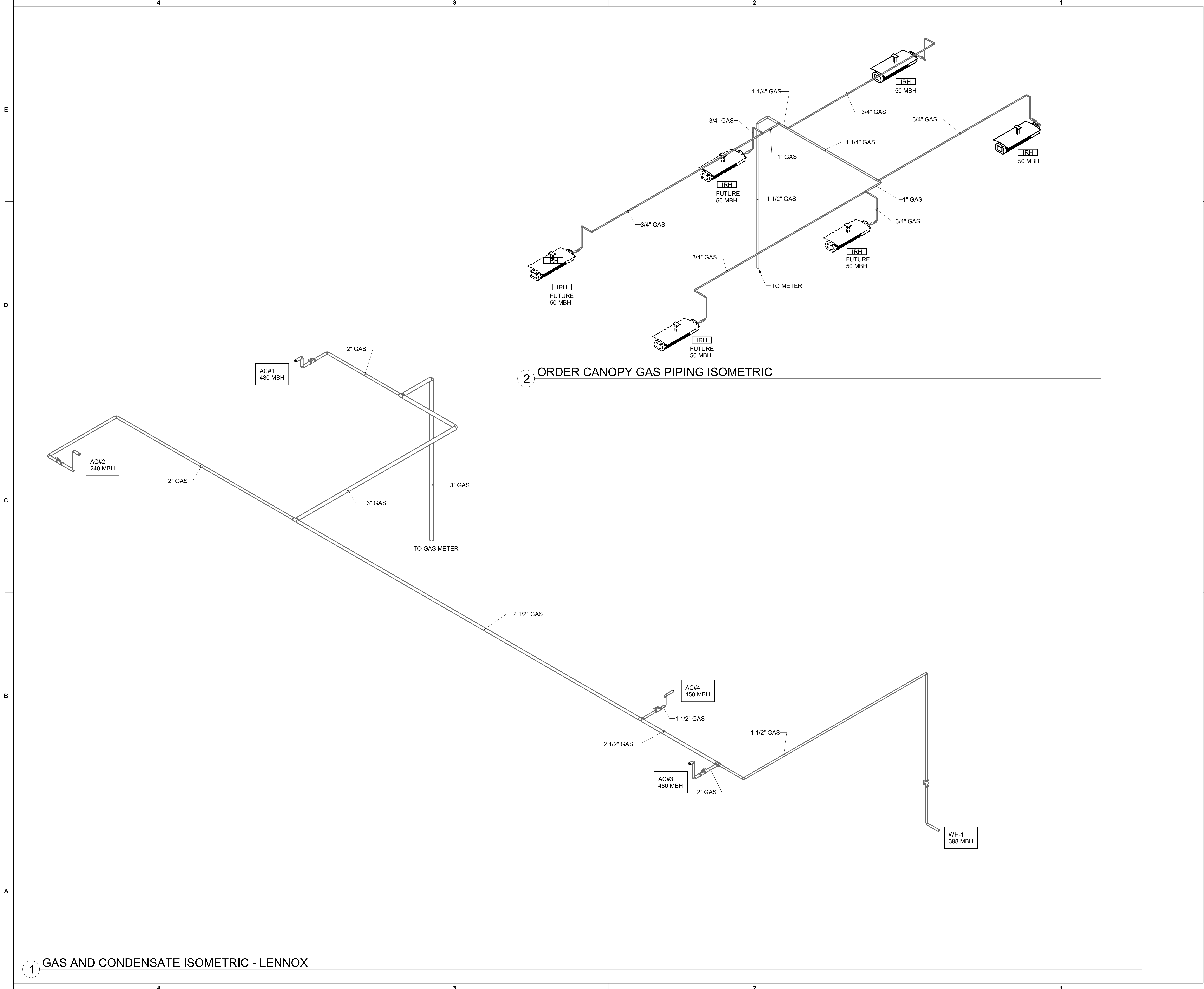
CONSULTANT PROJECT # 24024.CC.S
DATE 02/19/2024
DRAWN BY Author

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SHEET
SEQUENCE OF OPERATIONS

SHEET NUMBER

M-703

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5/23/2024 8:27:41 AM
30-LE-05562-M-901-GAS PIPING ISOMETRICS - LENNOX



Chick-fil-A
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05/22/24

CHICK-FIL-A
Centerville Hwy & Zoar
Church Road
3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.11
PRINTED FOR
CONSTRUCTION
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT #	24024.CC.S
DATE	02/19/2024
DRAWN BY	BLM

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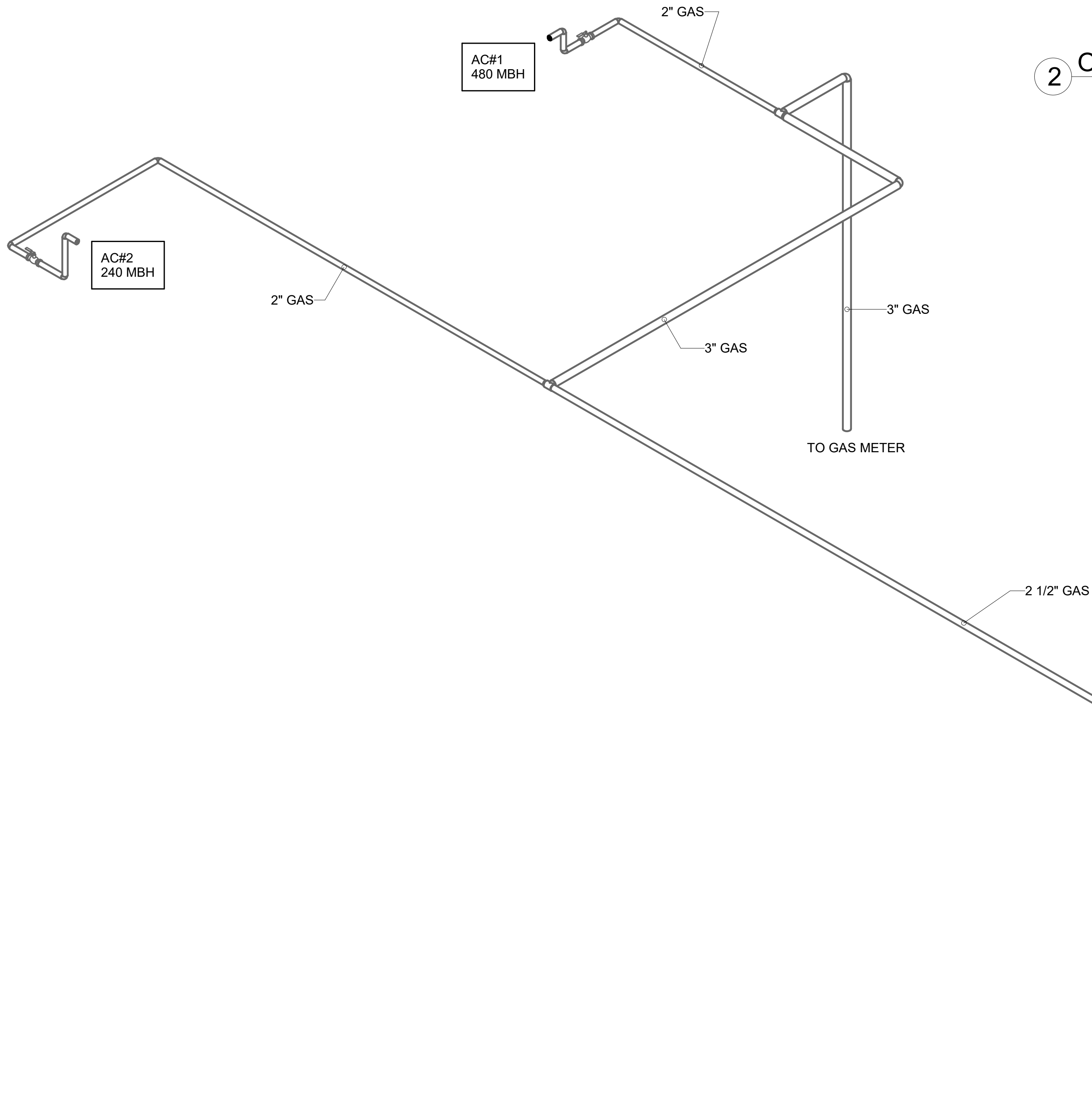
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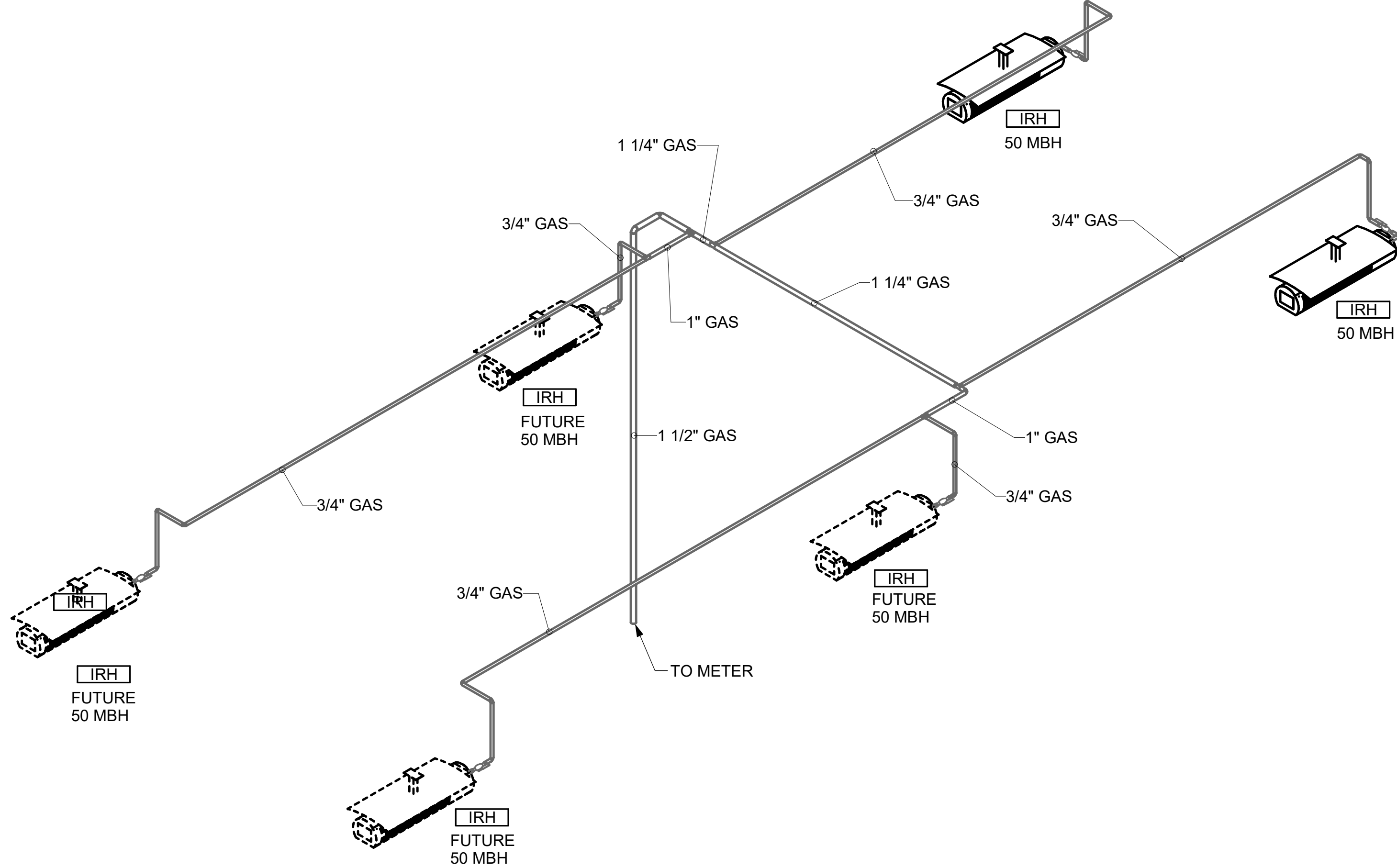
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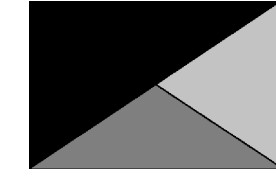
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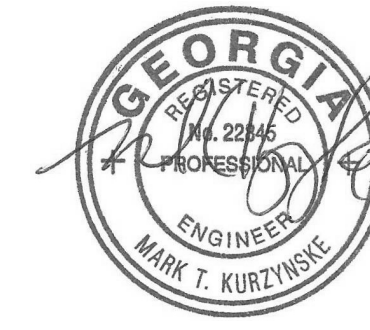
2 ORDER CANOPY GAS PIPING ISOMETRIC



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10/03/24

CHICK-FIL-A
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3366 Centerville Hwy
Snellville, GA 30039

FSR#05562

BUILDING TYPE / SIZE: P14 LE BN
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NO. DATE DESCRIPTION

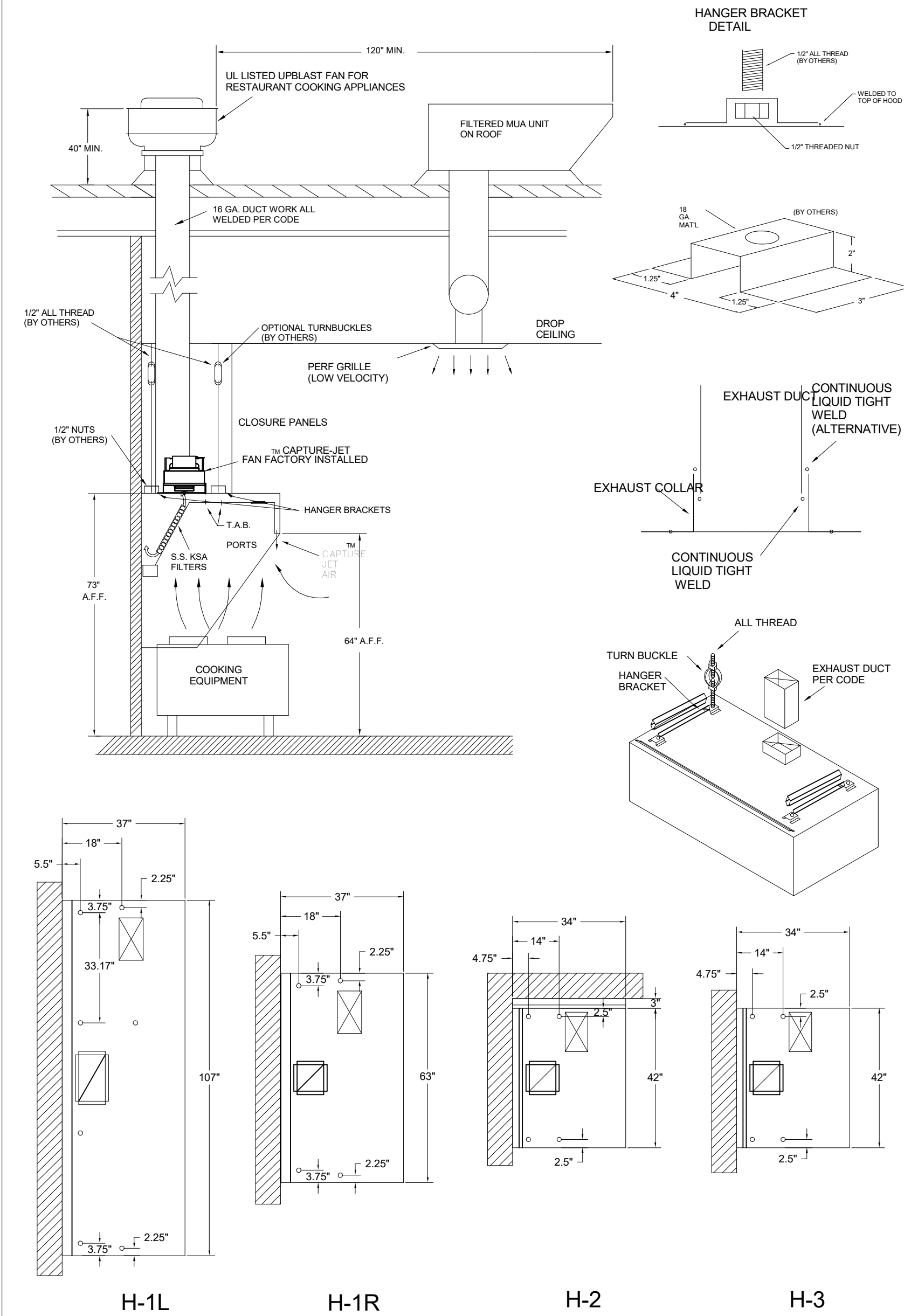
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DATE 02/19/2024
DRAWN BY BLM

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SHEET
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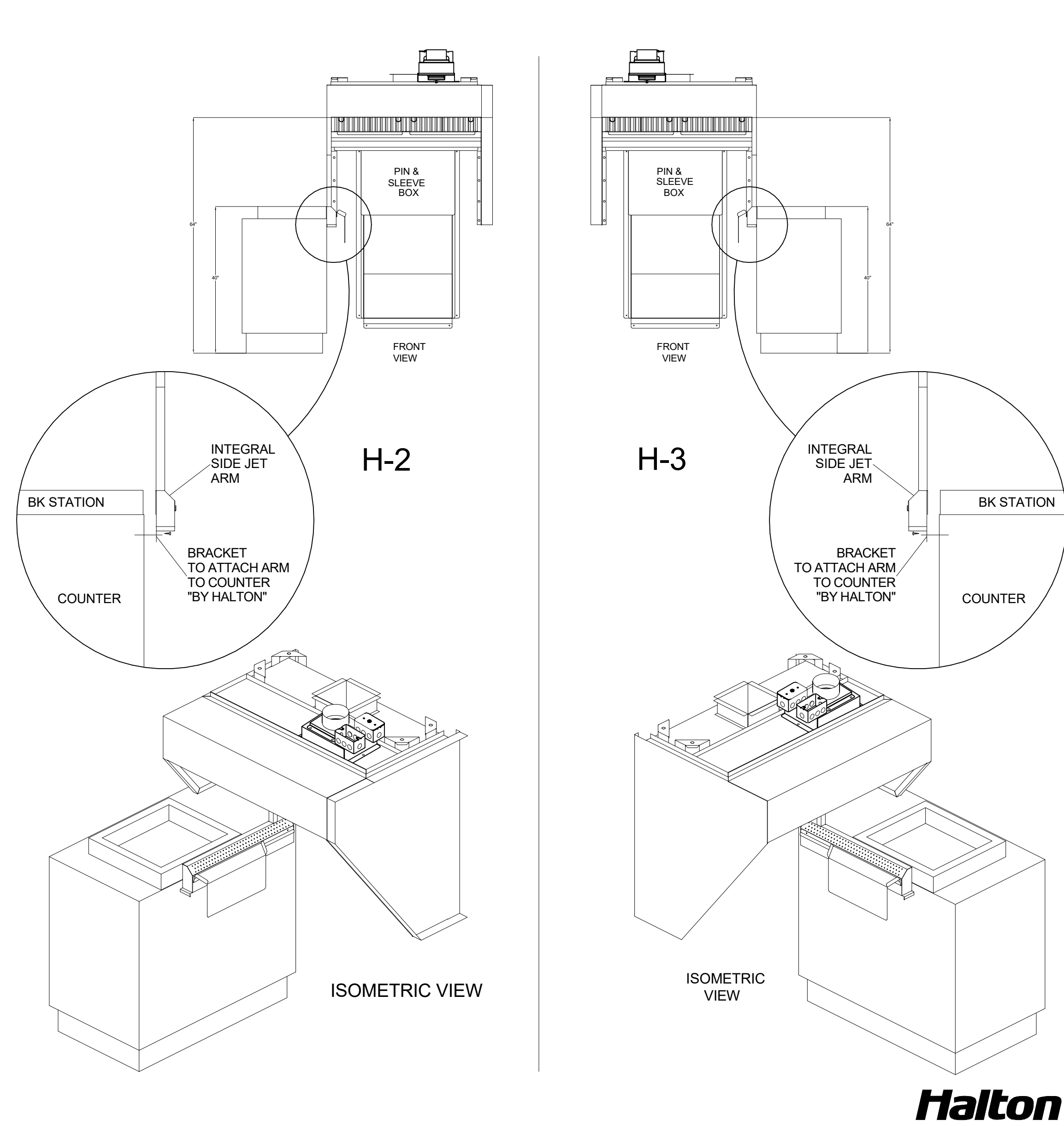
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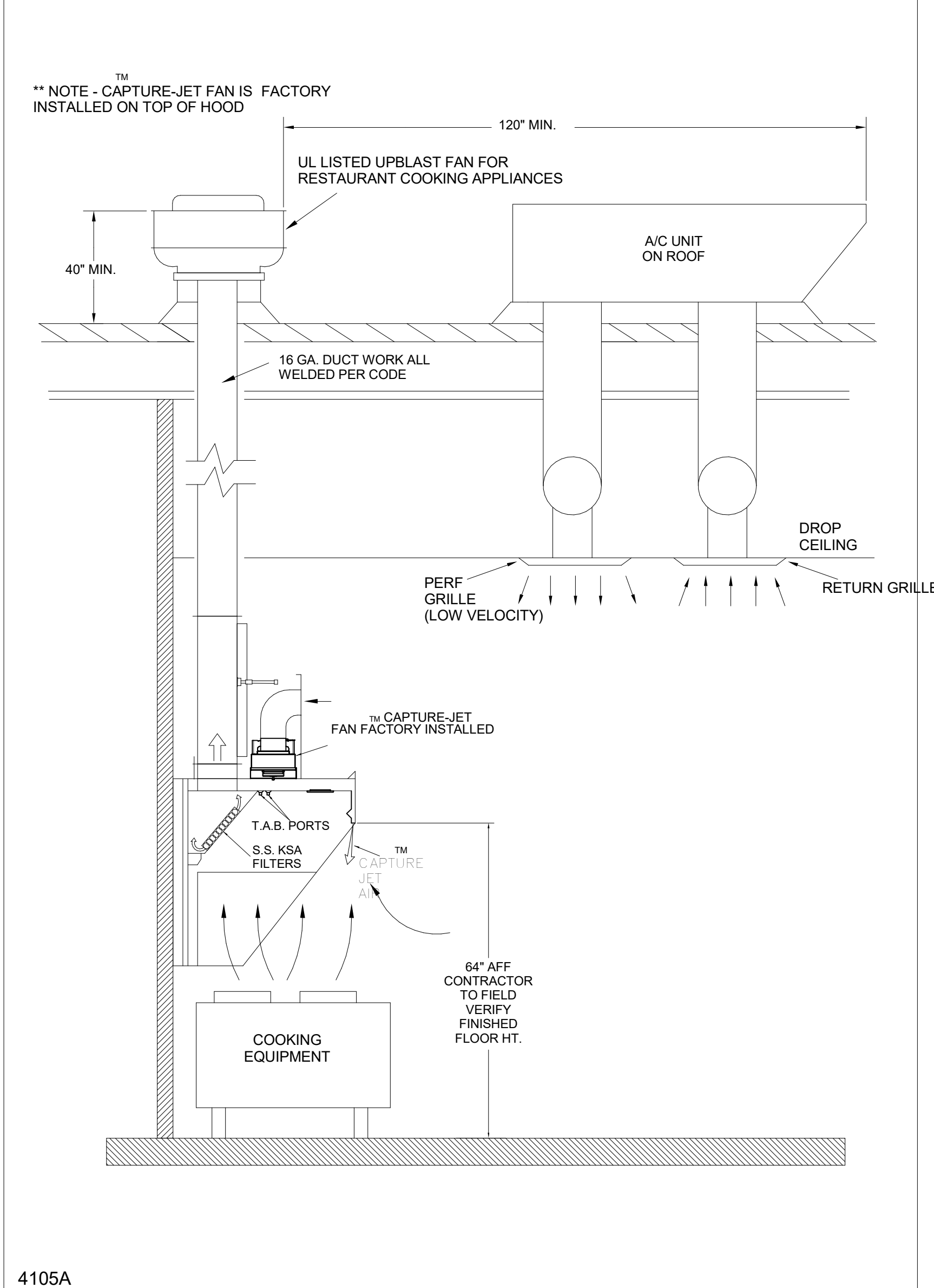
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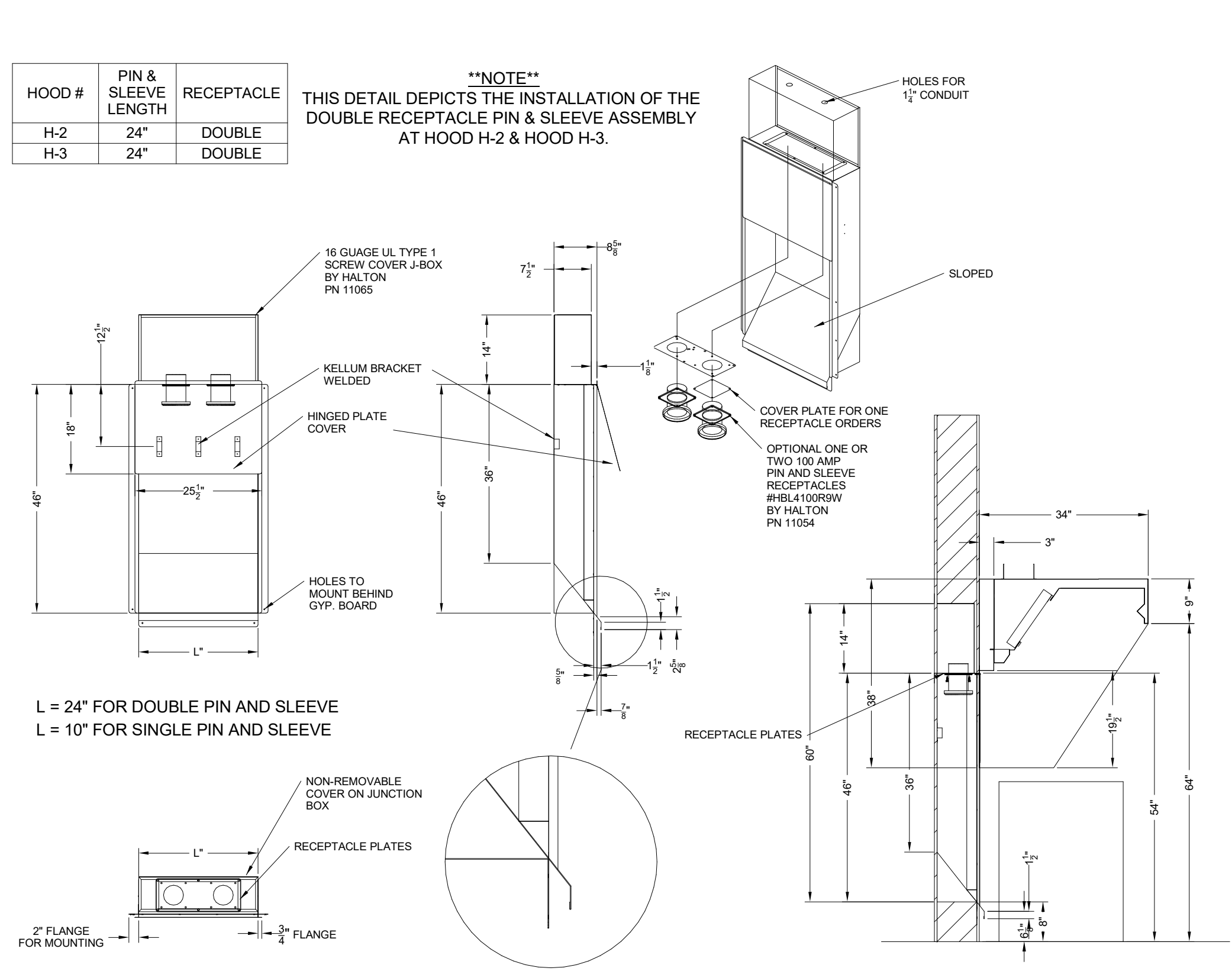
INTEGRAL SIDE JET ARM



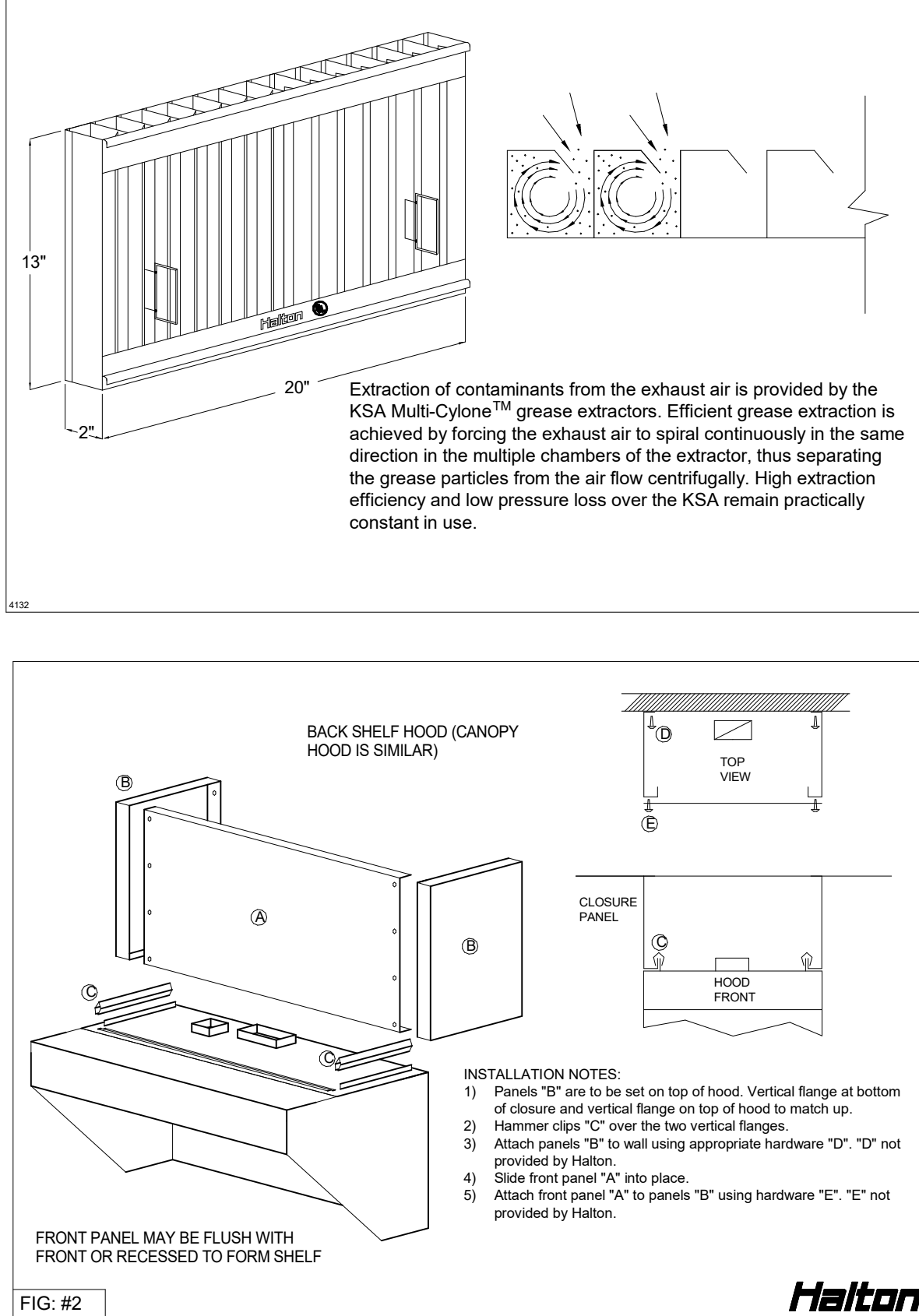
TYPICAL INSTALLATION



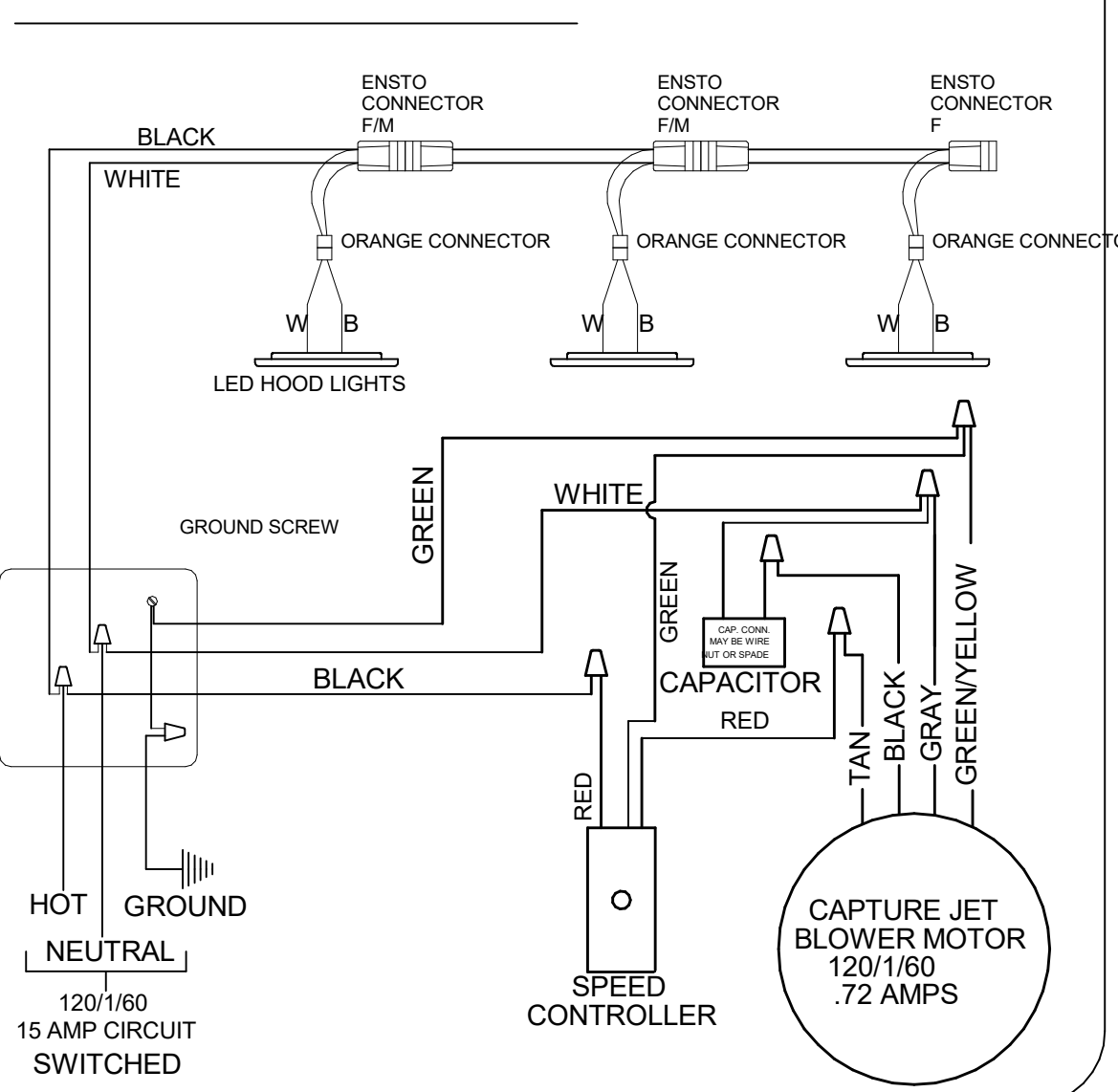
PIN & SLEEVE BOX DETAIL



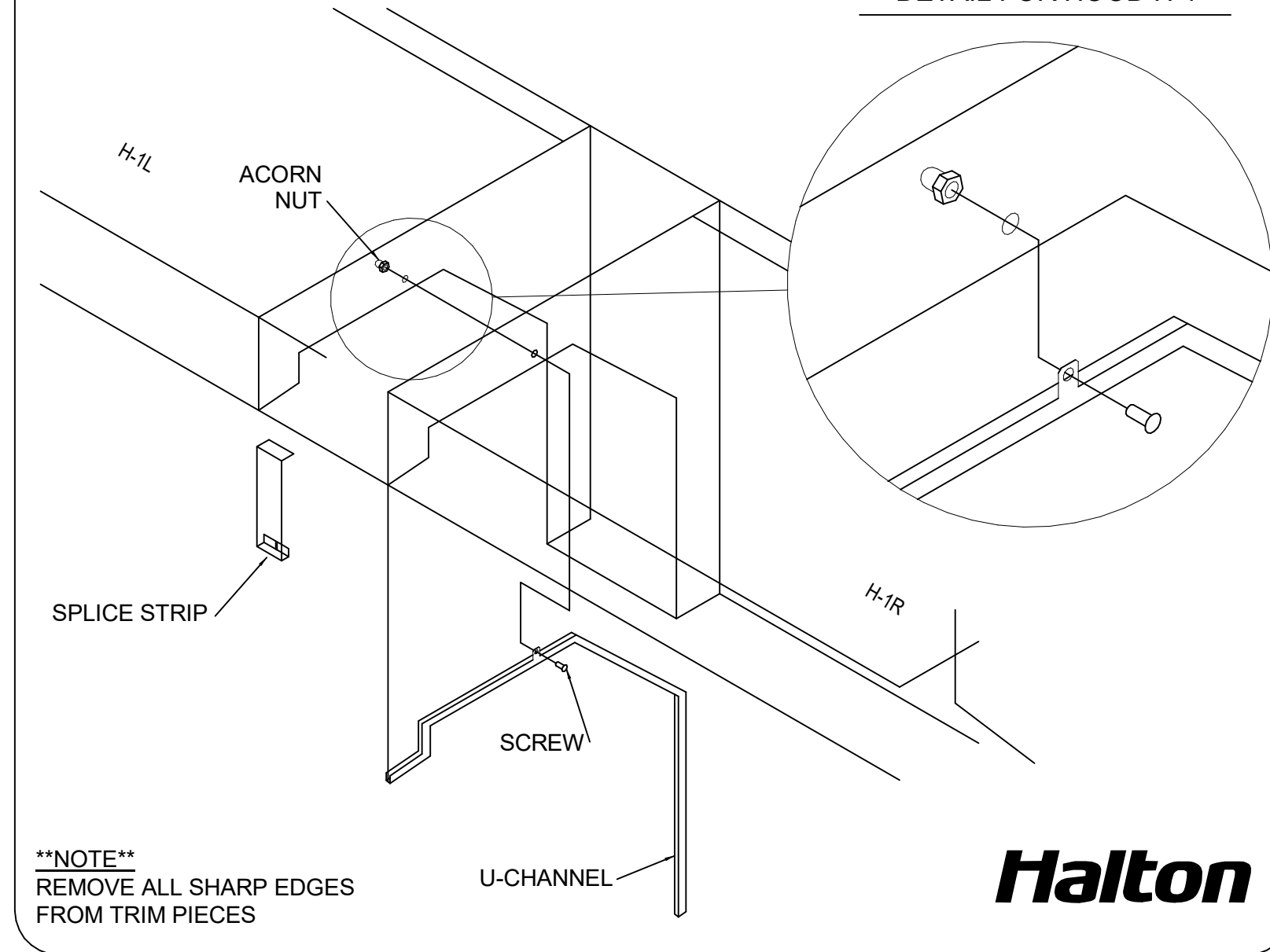
KSA Grease Extractor



TYPICAL WIRING OF CAPTURE-JET FAN



SPLICE STRIP/U-CHANNEL DETAIL FOR HOOD H-1



HALTON HOODS
- ETL LISTED PER LATEST
710 STANDARD
- BUILT PER NFPA 96
- NSF LISTED

NSF **Halton** CONFORMS TO UL STD UL STD 710 CERTIFIED TO UL STD 8646

INTERTEK 3012225

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

MODEL NO. KVL-2-IC SERIAL NO. ITEM NO.

GENERAL REQUIREMENTS

1. FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS

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

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

4. THE HOOD HAS BEEN CERTIFIED BY ETL FOR 8" HIGH CLEARANCE TO COMBUSTIBLE MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH UL710 WITH CONSIDERATIONS TO NFPA 96

5. THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FEATURES

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

7. SUITABLE FOR USE TO MEDIUM DUTY COOKING APPLIANCES

DUTY LEVEL	MINIMUM OVERHANG	FRONT, IN	SIDE, IN	MIN	MAX	MIN EXHAUST HOOD LENGTH
MEDIUM	0	0	21	31	158	

1. SETBACK/UNDERHANG DISTANCE

2. JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 0.26 IN/102

NSF **Halton** CONFORMS TO UL STD UL STD 710 CERTIFIED TO UL STD 8646

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FOR REFERENCE ONLY

CHICK-FL-A

LOCATION: Centerville Hwy & Zoar Church Road

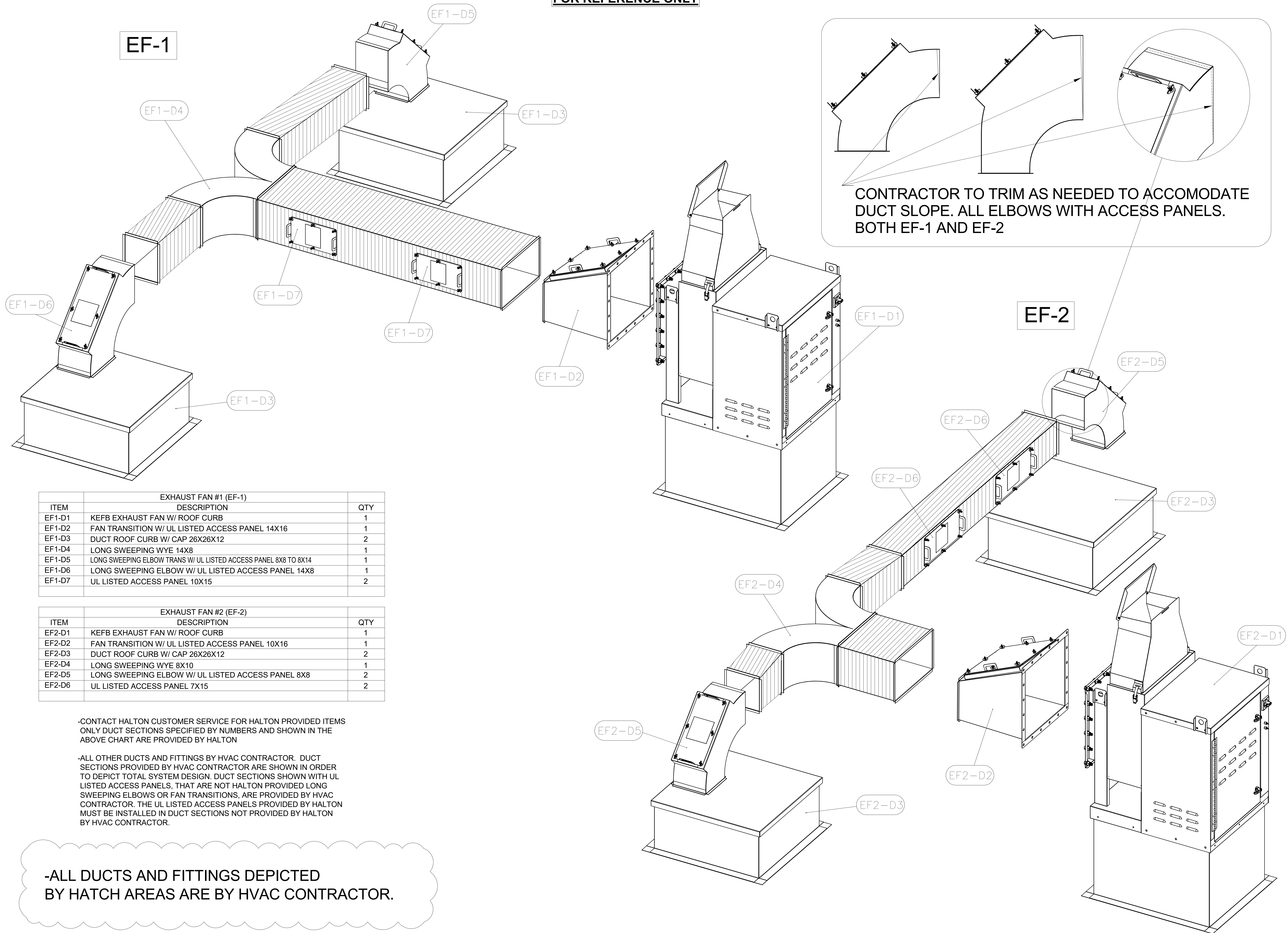
DRAWN BY: DATE: 02/19/2024

SCALE: NTS

Halton Dwg:

Sheet MH-1.2

FOR REFERENCE ONLY



EXHAUST FAN #1 (EF-1)		
ITEM	DESCRIPTION	QTY
EF1-D1	KEFB EXHAUST FAN W/ ROOF CURB	1
EF1-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X16	1
EF1-D3	DUCT ROOF CURB W/ CAP 26X26X12	2
EF1-D4	LONG SWEEPING WYE 14X8	1
EF1-D5	LONG SWEEPING ELBOW TRANS W/ UL LISTED ACCESS PANEL 8X8 TO 8X14	1
EF1-D6	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1
EF1-D7	UL LISTED ACCESS PANEL 10X15	2

EXHAUST FAN #2 (EF-2)		
ITEM	DESCRIPTION	QTY
EF2-D1	KEFB EXHAUST FAN W/ ROOF CURB	1
EF2-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 10X16	1
EF2-D3	DUCT ROOF CURB W/ CAP 26X26X12	2
EF2-D4	LONG SWEEPING WYE 8X10	1
EF2-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	2
EF2-D6	UL LISTED ACCESS PANEL 7X15	2

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

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

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

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

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES.
2. ALL MATERIALS AND EQUIPMENT TYPE OF CORROSION RESISTANT MATERIALS.
3. ALL EQUIPMENT TYPE OF CORROSION RESISTANT MATERIALS.
4. ALL EQUIPMENT TYPE OF CORROSION RESISTANT MATERIALS.
5. ALL EQUIPMENT TYPE OF CORROSION RESISTANT MATERIALS.
6. ALL EQUIPMENT TYPE OF CORROSION RESISTANT MATERIALS.
7. ALL EQUIPMENT TYPE OF CORROSION RESISTANT MATERIALS.

REVISIONS: THESE CHANGES OCCUR, A RECALCULATION OF EXHAUST FAN MUST BE NOTIFIED IF REQUIRED.

☐ REVISE AND RESUBMIT
☐ WITH NO CHANGES
☐ WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____

PROJECT: CHICK-FL-A

LOCATION: Centerville Hwy & Zoar Church Road

DRAWN BY: NTS

SCALE: NTS

DATE: 02/19/2024

Halton Dwg:

SN# 05562

Halton Co. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, AZ 85254
1-270-237-5600

Halton Co. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0001

REVISION DESCRIPTION

REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

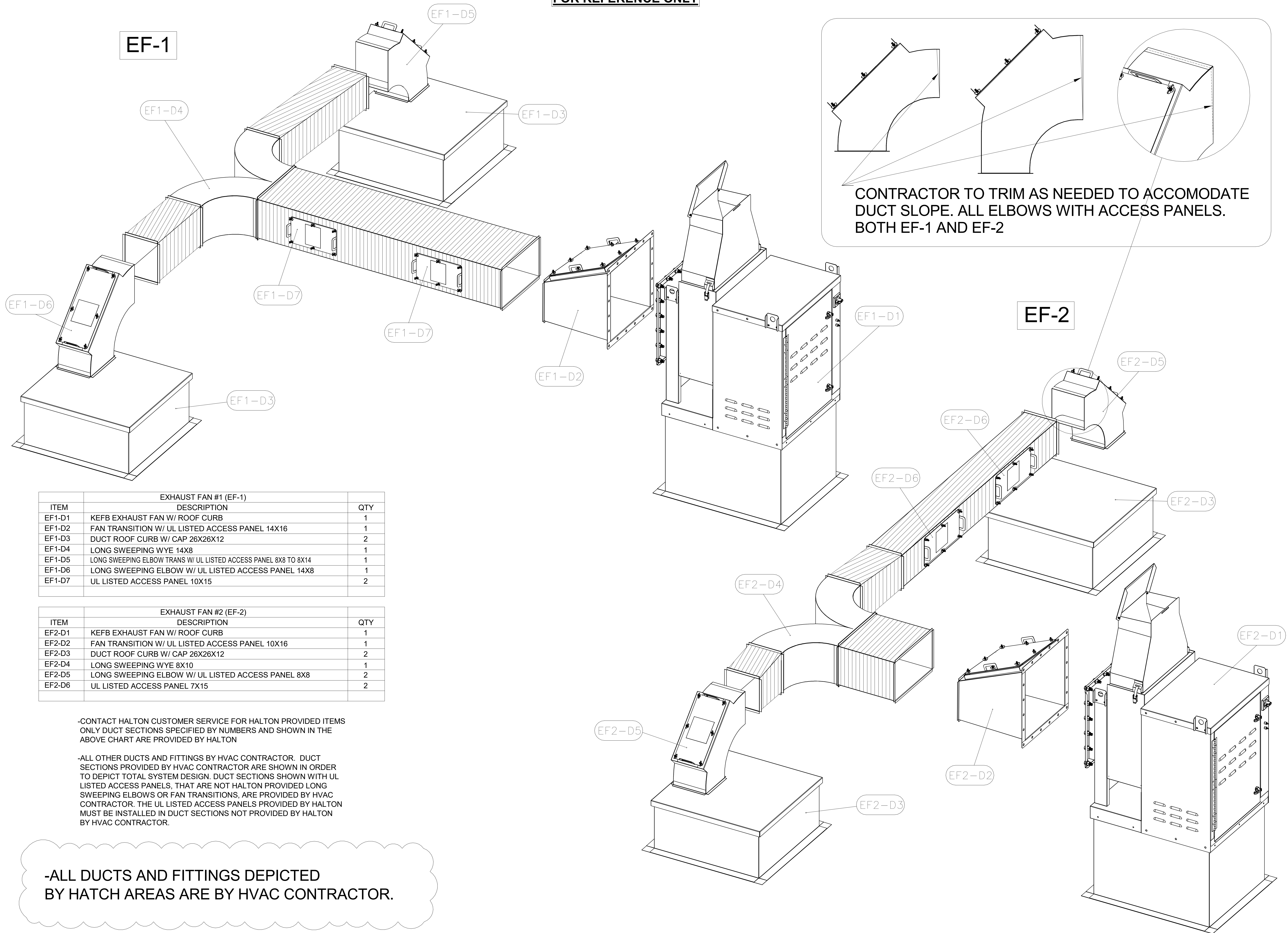
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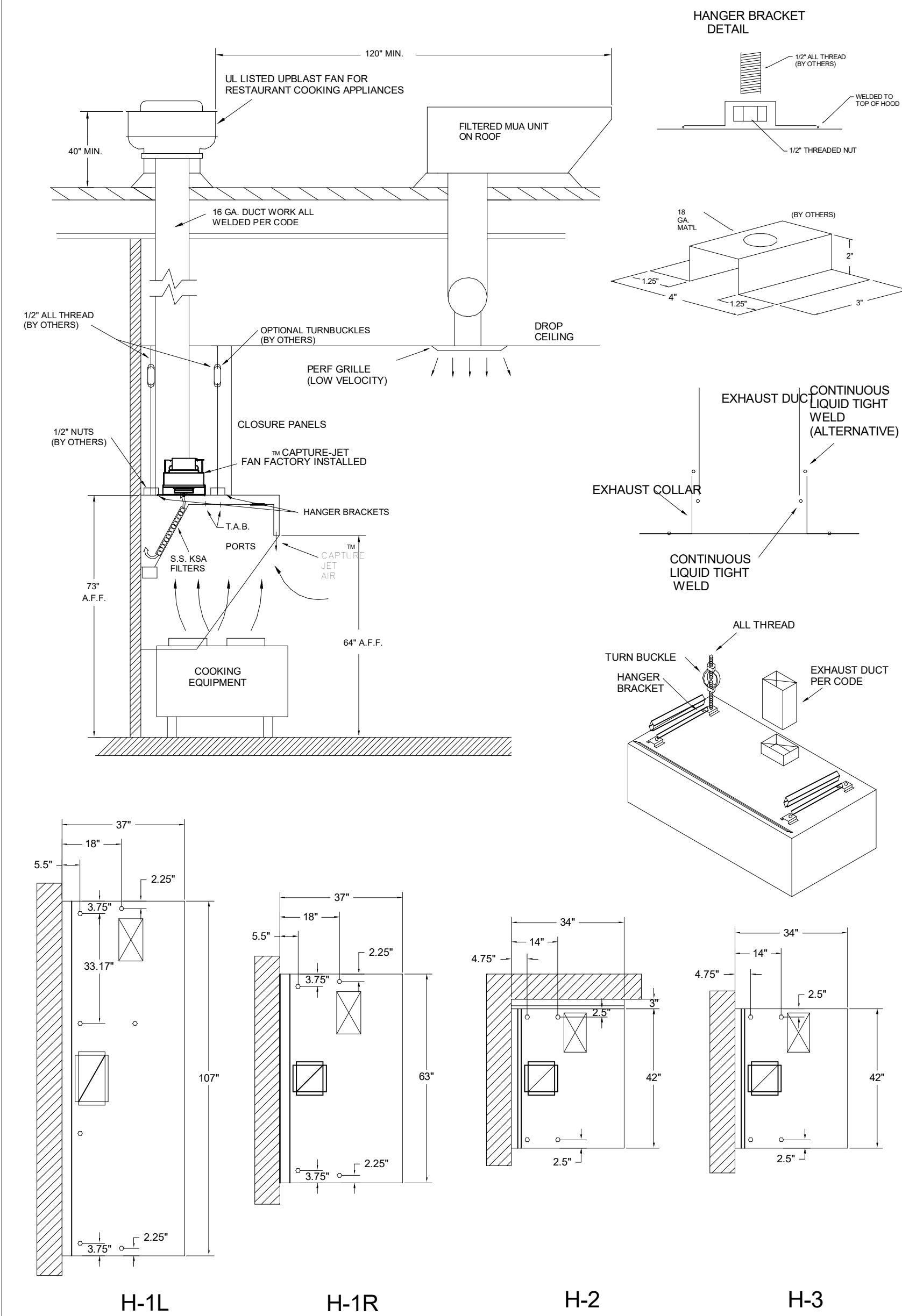
Halton

CARE FOR INDOOR AIR

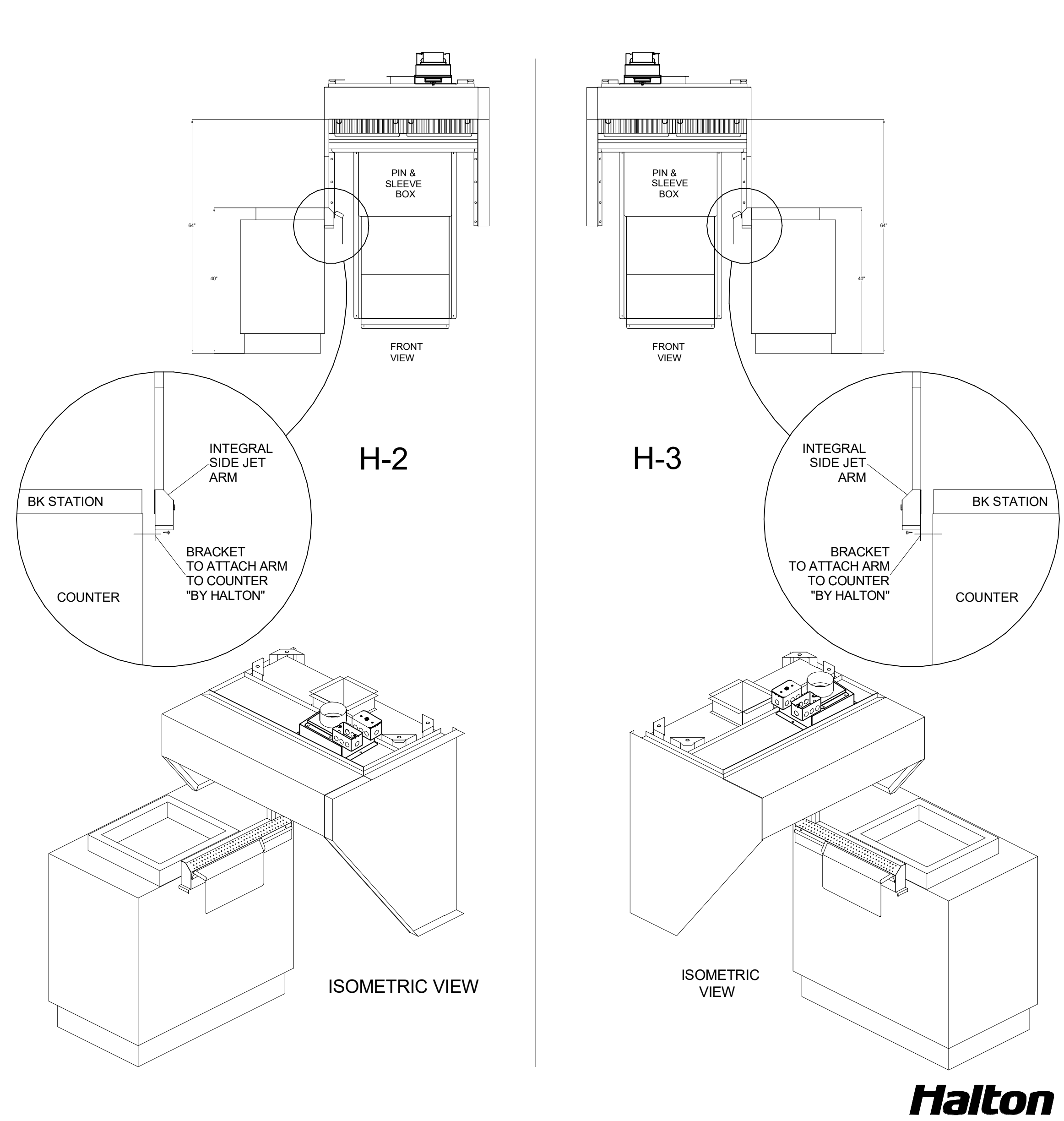
FOR REFERENCE ONLY



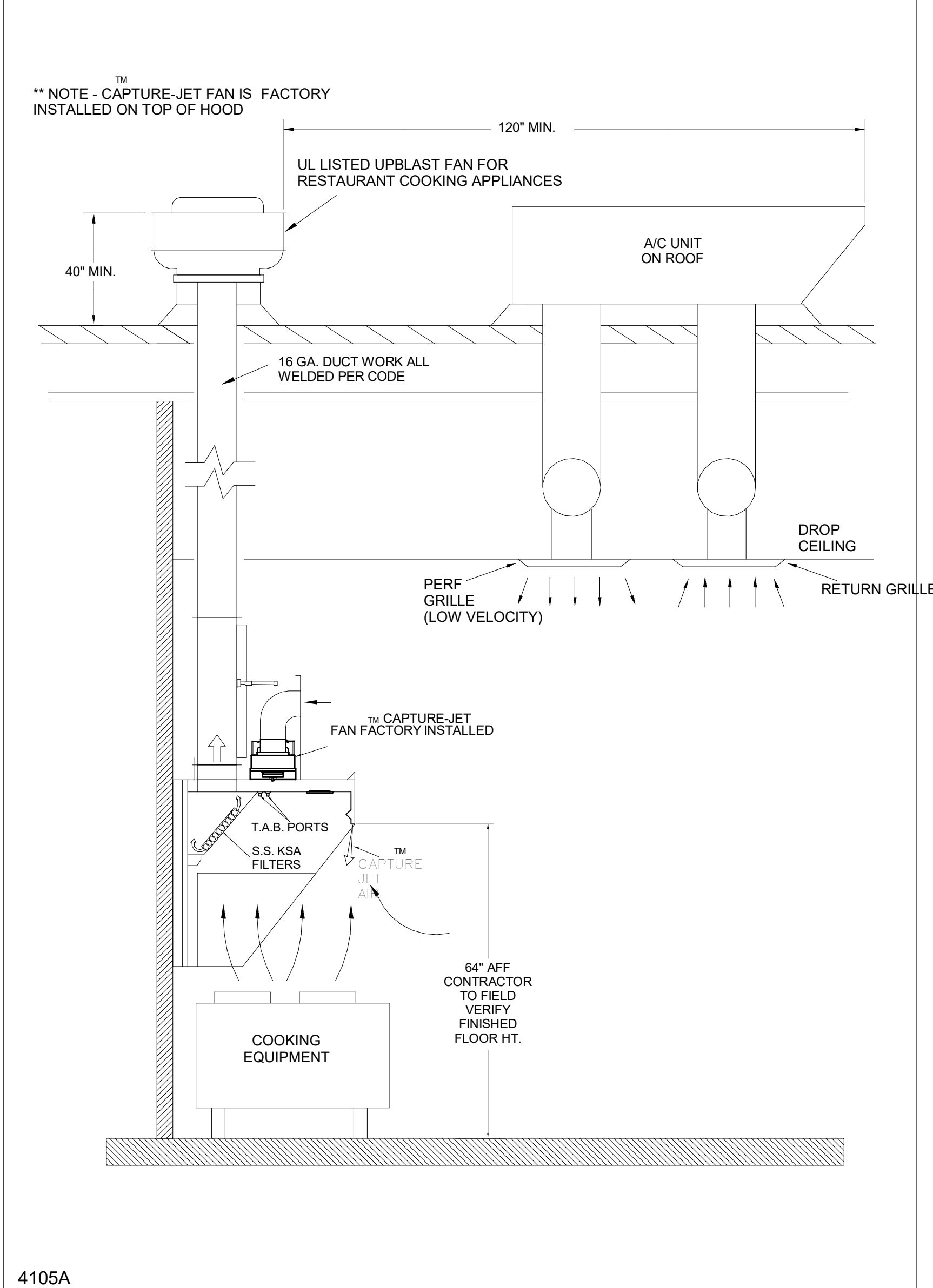
HANGER BRACKET DETAIL



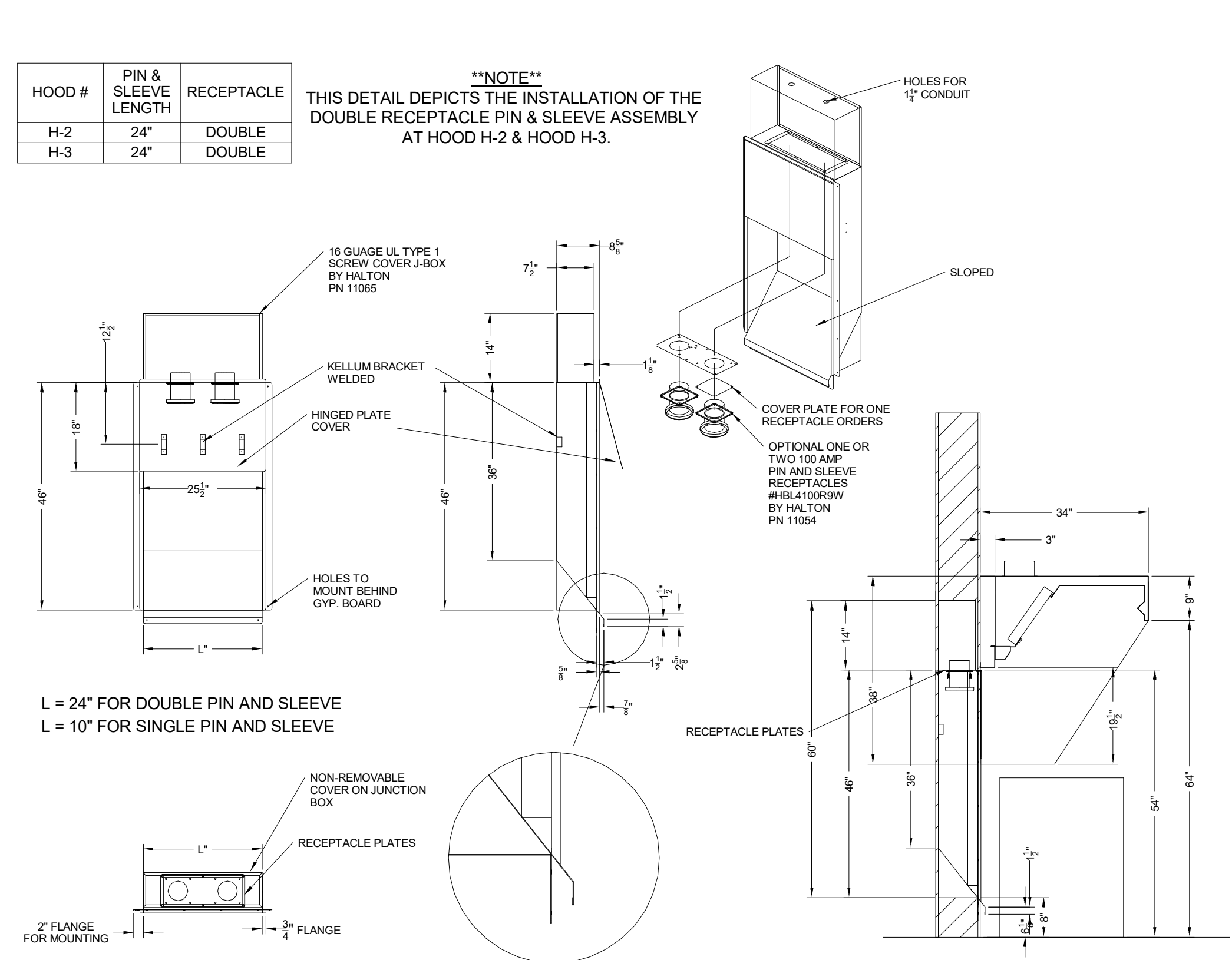
INTEGRAL SIDE JET ARM



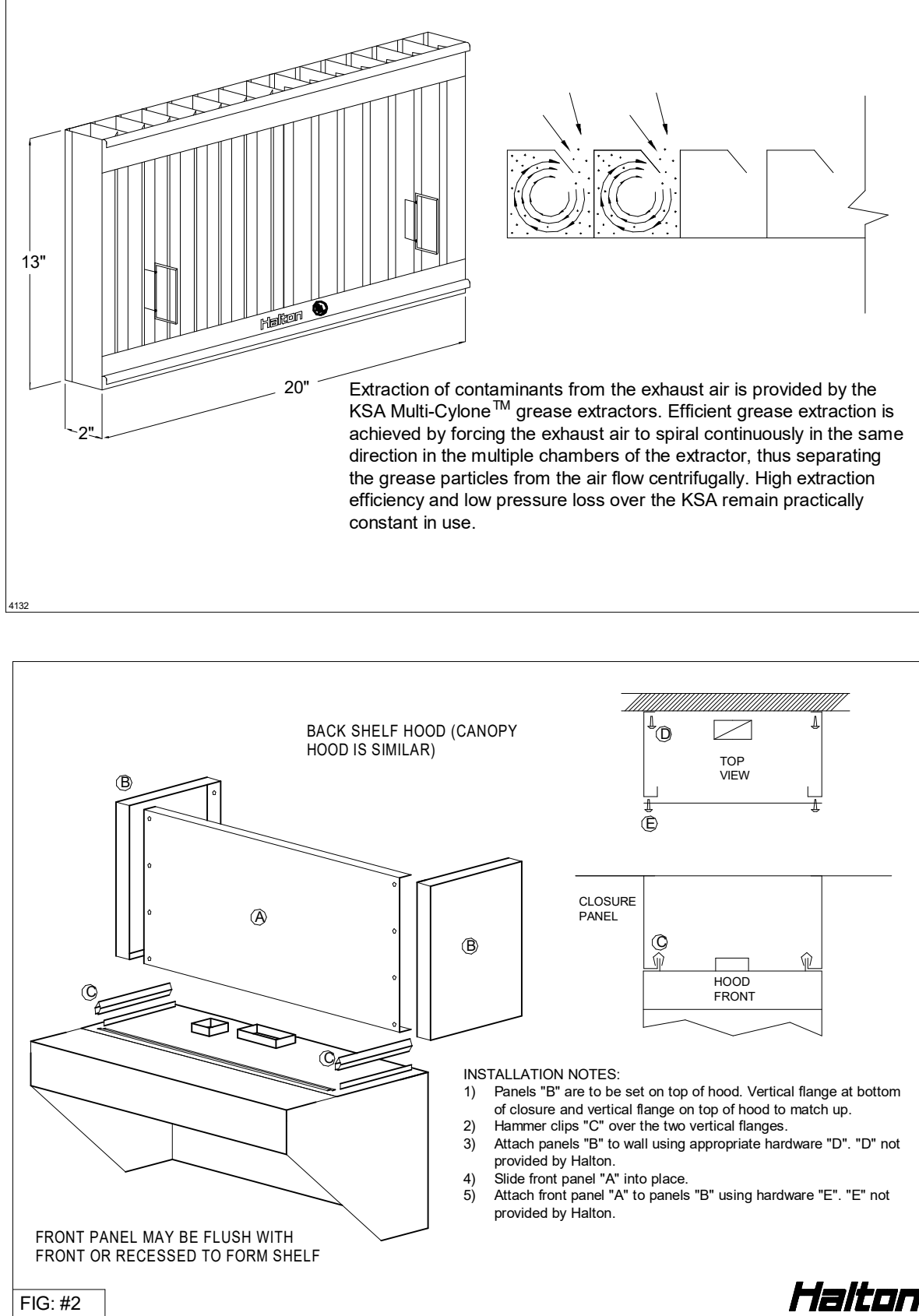
TYPICAL INSTALLATION



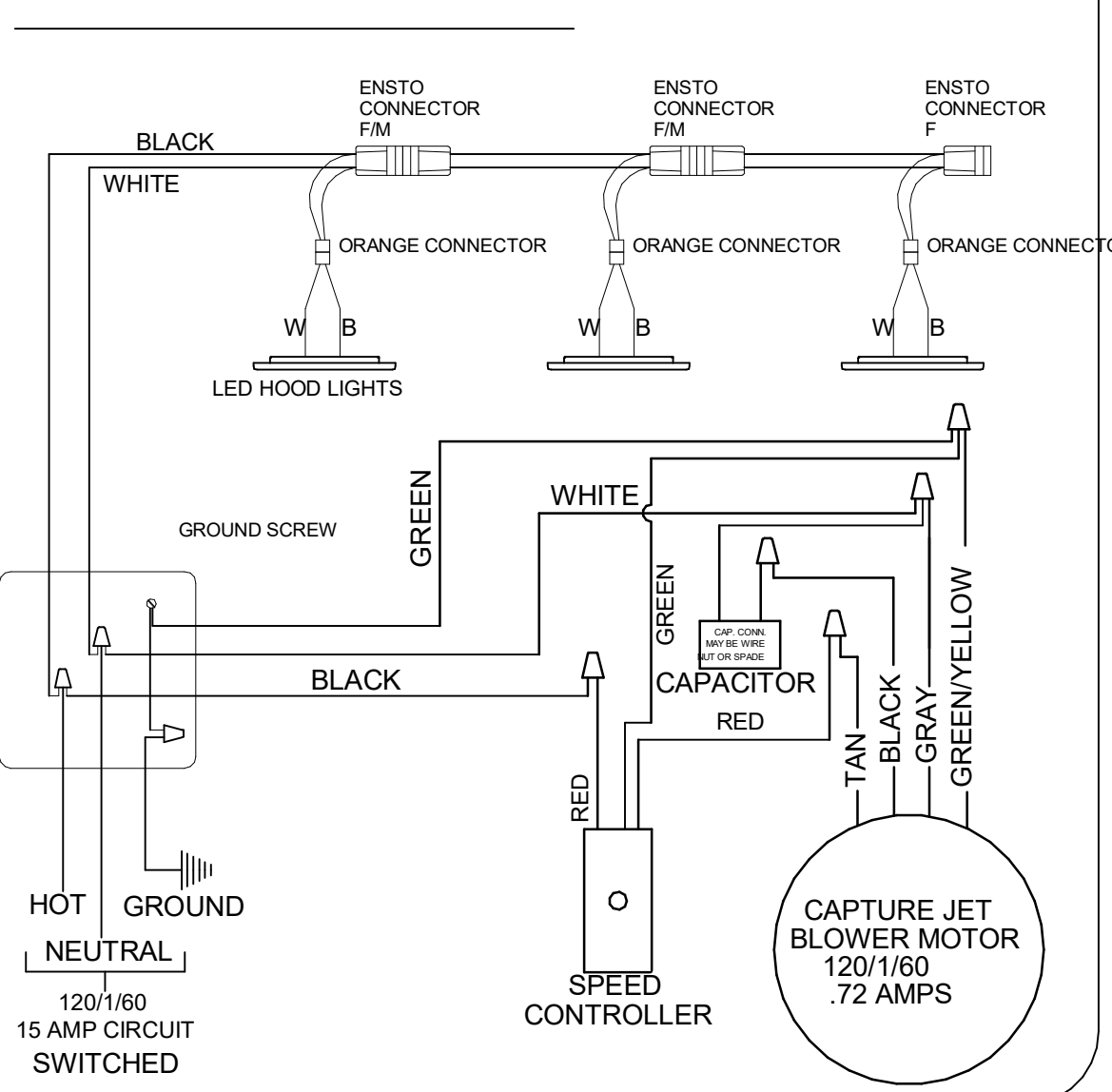
PIN & SLEEVE BOX DETAIL



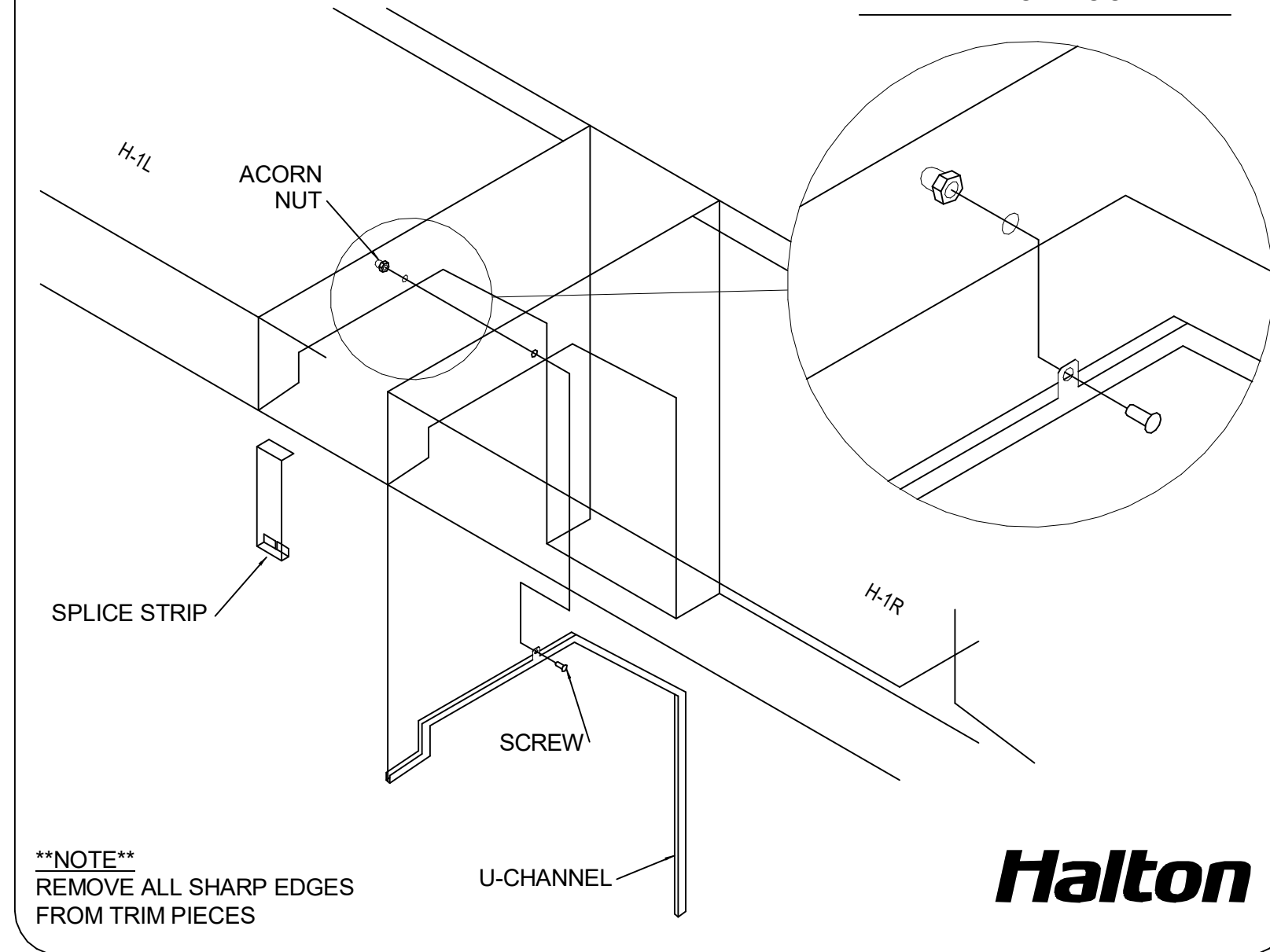
KSA Grease Extractor



TYPICAL WIRING OF CAPTURE-JET FAN



SPLICE STRIP/U-CHANNEL DETAIL FOR HOOD H-1



FOR REFERENCE ONLY

HALTON HOODS
- ETL LISTED PER LATEST
710 STANDARD
- BUILT PER NFPA 96
- NSF LISTED



CHICK-FL-A

LOCATION: Centerville Hwy & Zoar Church Road
DRAWN BY: DATE: 02/19/2024
SCALE: NTS
Halton Dwg:

Sheet

MH-1.2

