

DIVISION 15 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-454B 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 FLEEZE 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.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 A 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 IN SUPPLY DUCT 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 GASKET 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.

- 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 THAN 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.

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 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 FyreWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FyreWRAP PRODUCT USE 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.

CANOPY GENERAL NOTES

1. COORDINATE WORK WITH CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. 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.
4. CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, (TYP.).

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.
7. ALL PENETRATIONS OF FIRE-RATED AND DRAFTSTOPPING WALLS SHALL BE SEALED WITH AN APPROVED AND LISTED SEALANT APPROPRIATE FOR THE APPLICATION.
8. BRANCH TAKE-OFFS SHALL NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROPS.
9. ALL OVERHEAD REFRIGERANT PIPING SHALL BE INSTALLED USING TRAPEZE HANGERS, OR CLEVIS HANGERS. PROVIDE PROTECTION AGAINST DAMAGE TO INSULATION.
10. 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.
11. ALL ROOFTOP CONDENSING UNITS THAT DISCHARGE HORIZONTALLY SHALL BE ORIENTED SUCH THAT THE DISCHARGE DOES NOT BLOW IN THE DIRECTION OF AN OUTDOOR AIR INTAKE.
12. PULL STATIONS FOR KITCHEN HOOD FIRE SUPPRESSION SHALL BE LOCATED 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.: "PASS THRU HOODS" OR "MAIN COOKLINE HOODS".

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF	EXHAUST FAN
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	RTU	ROOFTOP UNIT
	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		REMOTE ANNUNCIATOR
	INFRARED HEATER		TRANSFER FAN
	PULL STATION		THERMOSTAT
	CIRCULATING FAN		

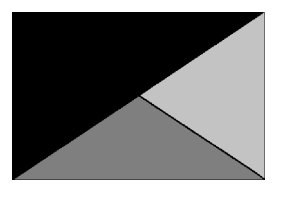
ABBREVIATIONS

CP	CONDENSATE PIPING
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
GR	GENERAL REQUIREMENTS
KE	KITCHEN EXHAUST
MC	MECHANICAL CONTRACTOR
NG	NATURAL GAS
PC	PLUMBING CONTRACTOR
RP	REFRIGERANT PIPING & EQUIPMENT
VS	VENTILATION SYSTEMS

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10/27/2025 7:06:50 PM
30-LE-05767-A-M-001-GENERAL NOTES, LEGENDS, SYMBOLS, AND ABBREVIATIONS



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



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



10/29/25

CHICK-FIL-A
FAIRPORT NINE MILE FSU
2051 FAIRPORT NINE MILE RD
PENFIELD, NY 14526

FSR#05767

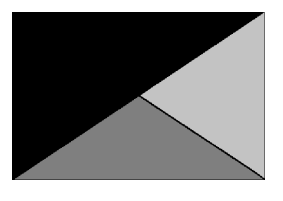
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RELEASE:	25.06	
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REVISION SCHEDULE:		
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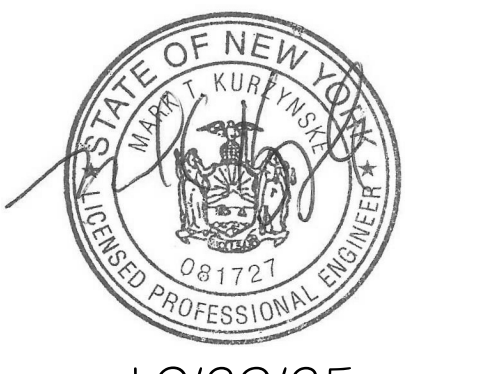
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Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998



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



10/29/25

CHICK-FIL-A
 FAIRPORT NINE MILE FSU
 2051 FAIRPORT NINE MILE RD
 PENFIELD, NY 14526

FSR#05767

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COMMISSIONING REQUIREMENTS - MECHANICAL
 SHEET NUMBER

M-002

Chick-fil-A HVAC Commissioning Scope

HVAC COMMISSIONING REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

B. OPR, BoD, and BoD-HVAC documentation prepared by Owner and Architect contains requirements that apply to this Section.

1.2 SUMMARY

A. This Section includes requirements for commissioning the HVAC system and its subsystems and equipment. This Section supplements the general requirements specified in Division 1 Section "General Commissioning Requirements."

B. Related Sections include the following:

- Division 1 Section "General Commissioning Requirements" for general requirements for commissioning processes that apply to this Section.

1.3 DEFINITIONS

A. Architect: Includes Architect identified in the Contract for Construction between Owner and Contractor, plus consultant/design professionals responsible for design of HVAC, electrical, communications, controls for HVAC systems, and other related systems.

B. BoD: Basis of Design.

C. BoD-HVAC: HVAC systems basis of design.

D. CxA: Commissioning Authority.

E. OPR: Owner's Project Requirements.

F. Systems, Subsystems, and Equipment: Where these terms are used together or separately, they shall mean "as-built" systems, subsystems, and equipment.

G. TAB: Testing, Adjusting, and Balancing.

HVAC COMMISSIONING REQUIREMENTS 1

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TESTING PREPARATION

A. Prerequisites for Testing:

- Certify that HVAC systems, subsystems, and equipment have been completed, calibrated, and started; are operating according to the OPR, BoD, and Contract Documents; and that Certificates of Readiness are signed and submitted.
- Certify that TAB procedures and control systems have been completed and calibrated; are operating according to the OPR, BoD, and Contract Documents; and that pretest set points have been recorded.
- Certify that TAB procedures have been completed, and that TAB reports have been submitted, discrepancies corrected, and corrective work approved.
- Test systems and intersystem performance after approval of test checklists for systems, subsystems, and equipment.
- Set systems, subsystems, and equipment into operating mode to be tested (e.g., normal shut down, normal auto position, normal manual position, unoccupied cycle, emergency power, and alarm conditions).
- Verify each operating cycle after it has been running for a specified period and is operating in a steady-state condition.
- Inspect and verify the position of each device and interlock identified on checklists. Sign off each item as acceptable, or failed. Repeat this test for each operating cycle that applies to system being tested.
- Check safety cutouts, alarms, and interlocks with smoke control and life-safety systems during each mode of operation.
- Annotate checklist or data sheet when a deficiency is observed.
- Verify equipment interface with monitoring and control system and TAB criteria; include the following:
 - Supply and return flow rates for systems in each operational mode.
 - Minimum outdoor-air intake in each operational mode and at minimum and maximum airflow.
 - Building pressurization.
 - Total exhaust airflow and total outdoor-air intake.
- Verify proper responses of monitoring and control system controllers and sensors to include the following:
 - For each controller or sensor, record the indicated monitoring and control system reading and the test instrument reading. If initial test indicates that the test reading is outside of the control range of the installed device, check calibration of the installed device and adjust as required. Retest malfunctioning devices and record results on checklist or data sheet.
 - Report deficiencies and prepare an issues log entry.

HVAC COMMISSIONING REQUIREMENTS 4

Chick-fil-A HVAC Commissioning Scope

HVAC COMMISSIONING REQUIREMENTS

B. Test Checklists: CxA shall develop test checklists for HVAC systems, subsystems, and equipment, including interfaces and interlocks with other systems. CxA shall prepare separate checklists for each mode of operation and provide space to indicate whether the mode under test responded as required. Checklists shall include, but not be limited to, the following:

- Calibration of sensors and sensor function.
- Testing conditions under which test was conducted, including (as applicable) ambient conditions, set points, override conditions, and status and operating conditions that impact the results of test.
- Control sequences for HVAC systems.
- Strength of control signal for each set point at specified conditions.
- Responses to control signals at specified conditions.
- Sequence of response(s) to control signals at specified conditions.
- Electrical demand or power input at specified conditions.
- Power quality and related measurements.
- Expected performance of systems, subsystems, and equipment at each step of test.
- Narrative description of observed performance of systems, subsystems, and equipment. Notation to indicate whether the observed performance at each step meets the expected results.
- Interaction of auxiliary equipment.
- Issues log.

1.6 SUBMITTALS

A. The following submittals shall be submitted to the Owner's Agent.

B. Testing Procedures: CxA shall submit detailed testing plan, procedures, and checklists for each series of tests. Submittals shall include samples of data reporting sheets that will be part of the reports.

C. Certificate of Readiness: CxA shall compile certificates of readiness from Contractor certifying that systems, subsystems, equipment, and associated controls are ready for testing.

D. Certificate of Completion of Installation, Prestart, and Startup: CxA shall certify that installation, prestart, and startup activities have been completed. Certification shall include completed checklists provided by TAB as result of TAB activities.

E. Test and Inspection Reports: CxA shall compile and submit preliminary report, test and inspection reports and certificates, and shall include them in systems manual and final commissioning report.

F. Corrective Action Documents: CxA shall submit corrective action documents.

G. Certified TAB Reports: CxA shall submit verified, certified TAB reports.

HVAC COMMISSIONING REQUIREMENTS 3

Chick-fil-A HVAC Commissioning Scope

HVAC COMMISSIONING REQUIREMENTS

1.4 CONTRACTOR'S RESPONSIBILITIES

A. The following responsibilities are in addition to those specified in Division 1 Section "General Commissioning Requirements."

B. Mechanical, General Contractor and CxA:

- Attend procedures meeting for TAB Work.
- Certify that TAB Work is complete.

C. CxA:

- Attend TAB verification testing.
- Provide measuring instruments and logging devices to record test data, and data acquisition equipment to record data for the complete range of testing for the required test period.

D. Mechanical Contractor: With the CxA, review control designs for compliance with the OPR and BoD, controllability with respect to actual equipment to be installed, and recommend adjustments to control designs and sequence of operation descriptions.

E. TAB Agency:

- Contract Documents Review: With the CxA, review the Contract Documents before developing TAB procedures.
 - Verify the following:
 - Accessibility of equipment and components required for TAB Work.
 - Adequate number and placement of duct balancing dampers to allow proper balancing while minimizing sound levels in occupied spaces.
 - Adequate number and placement of balancing valves to allow proper balancing and recording of water flow.
 - Adequate number and placement of test ports and test instrumentation to allow reading and compilation of system and equipment performance data needed to conduct both TAB and commissioning testing.
 - Air and water flow rates have been specified and compared to central equipment output capacities.
 - Identify discontinuities and omissions in the Contract Documents.

1.5 COMMISSIONING DOCUMENTATION

A. BoD HVAC: Owner will provide BoD-HVAC documents, prepared by Architect and approved by Owner, to the CxA and Contractor for use in developing the commissioning plan, systems manual, and operation and maintenance training plan.

HVAC COMMISSIONING REQUIREMENTS 2

Chick-fil-A HVAC Commissioning Scope

HVAC COMMISSIONING REQUIREMENTS

B. Testing Instrumentation: Install measuring instruments and logging devices to record test data for the required test period. Instrumentation shall monitor and record full range of operating conditions and shall allow for calculation of total capacity of system for each mode of operation. For individual room cooling tests, provide temporary heaters to impose a cooling load indicated in BoD. Operational modes include the following:

- Occupied and unoccupied.
- Warm up and cool down.
- Economizer cycle.
- Power loss recovery.
- Life-safety and safety systems.
- Fire safety.

3.2 TAB VERIFICATION

A. TAB Agency shall coordinate with CxA for work required during TAB activities and shall copy CxA with required reports, sample forms, checklists, and certificates.

B. Mechanical, General Contractor, and CxA shall witness TAB Work.

C. TAB Preparation:

- TAB shall provide CxA with data required for Pre-Grid Inspection activities as applicable.
 - CxA shall use this data to certify that prestart and startup activities have been completed for systems, subsystems, and equipment installation.

D. Verification of Final TAB Report:

- CxA shall select, at random, 10 percent of report for field verification.
- CxA shall notify TAB 10 days in advance of the date of field verification; however, notice shall not include data points to be verified. The TAB shall use the same instruments (by model and serial number) that were used when original data were collected.
- Failure of an item is defined as follows:
 - For all readings other than sound, a deviation of more than 10 percent.
- Failure of more than 10 percent of selected items shall result in rejection of final TAB report.

E. If deficiencies are identified during verification testing, CxA shall notify the Mechanical and General Contractor, whom shall take immediate action to remedy the deficiency. Architect shall review final tabulated checklists and data sheets to determine if verification is complete and that system is operating according to the Contract Documents.

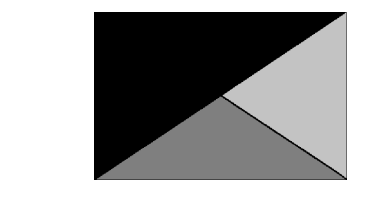
HVAC COMMISSIONING REQUIREMENTS 5

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 30-LE-05767-M-002-COMMISSIONING REQUIREMENTS - MECHANICAL



Chick-fil-A

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



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



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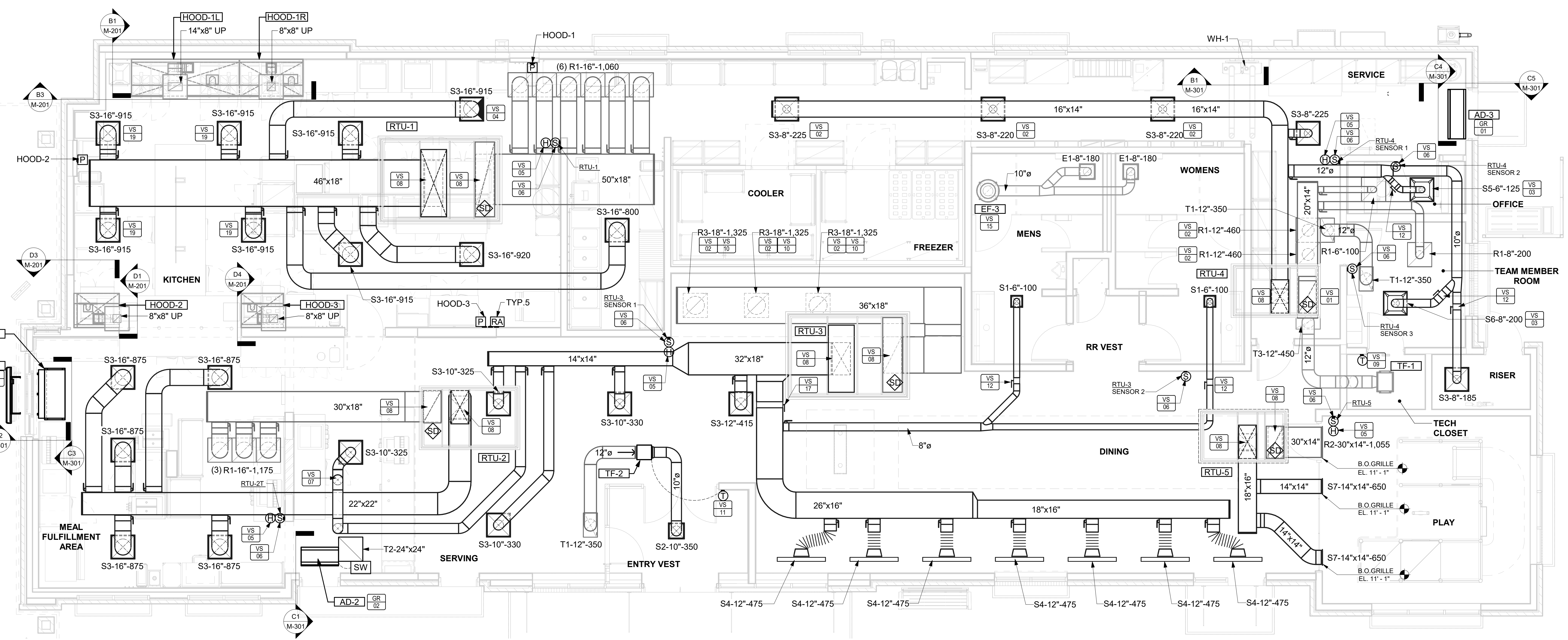
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SHEET
EQUIPMENT AND
DUCTWORK PLAN
(TRANE)
SHEET NUMBER

M-101



1 EQUIPMENT AND DUCTWORK PLAN (LENNOX)
1/4" = 1'-0"

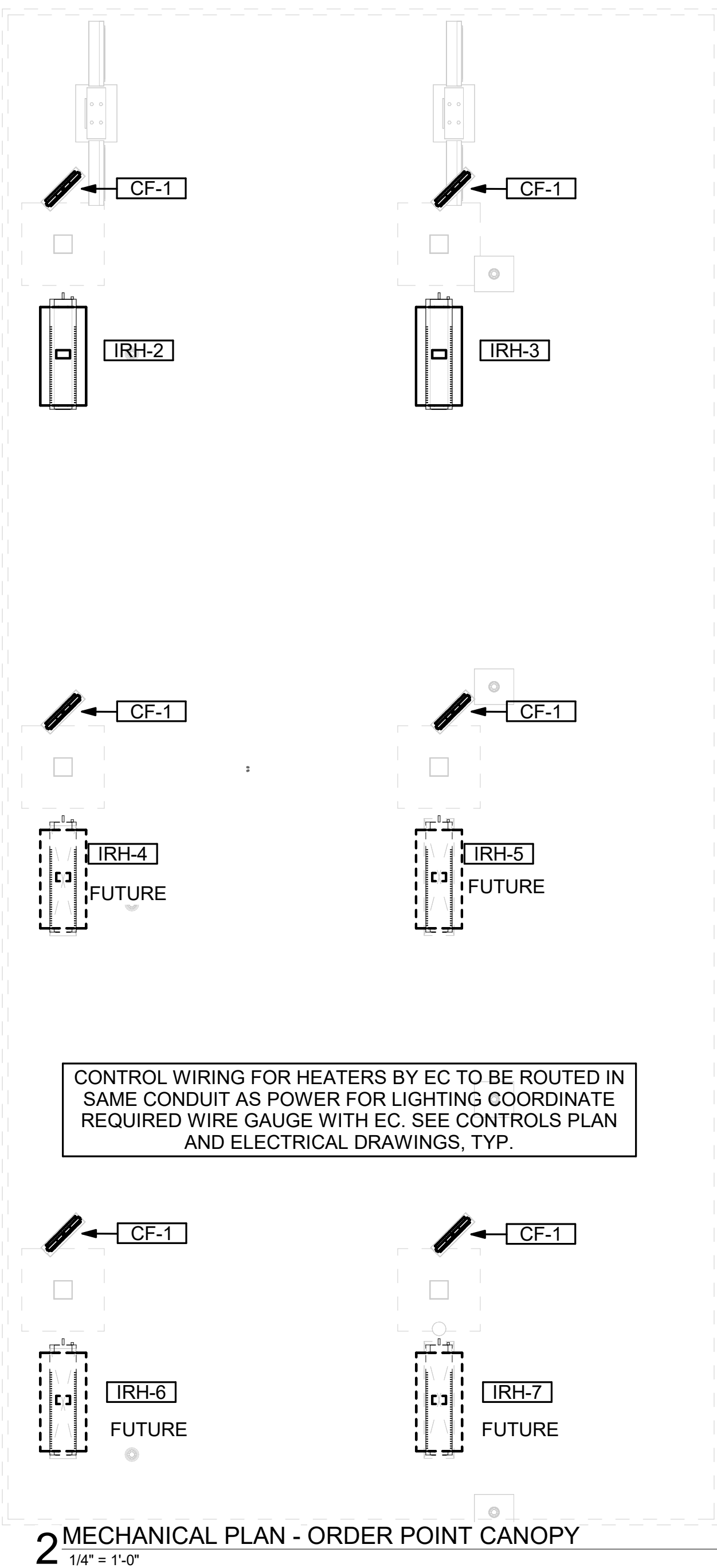
KEY NOTES

- GR 01 WALL-MOUNTED AIR CURTAIN INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- GR 02 AIR CURTAIN INSTALLED ABOVE CEILING AND CENTERED OVER DOOR OPENING.
- GR 03 MC TO MOUNT HEATER ON WALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AT 8'-0" A.F.F.
- VS 01 INSTALL 45-DEGREE TAP IN VERTICAL DUCT INTO THE TOP OF HORIZONTAL DUCTWORK.
- VS 02 TAKE OFF WITH DAMPER ON THE BOTTOM OF DUCTWORK.
- VS 03 MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.
- VS 04 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- VS 05 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- VS 06 MOUNT TEMPERATURE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. SEE WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
- VS 07 ROUTE DUCT IN JOIST SPACE.
- VS 08 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE.
- VS 09 MOUNT THERMOSTAT ON WALL AT 4'-0" AFF.
- VS 10 DAMPER HANDLE SHALL BE INSTALLED FACING THE ACT CEILING FOR ACCESS.
- VS 11 PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT, OCCUPIED/UNOCCUPIED TERMINALS. MOUNT THERMOSTAT ON WALL AT 4'-0" AFF.
- VS 12 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
- VS 15 10" DIA. DUCT UP, TRANSITION TO 10"x10" DUCT BELOW ROOF OPENING AND INSTALL FLEXIBLE CONNECTION IN VERTICAL 10"x10" DUCT.
- VS 17 PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH, OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION.
- VS 19 CONTRACTOR TO ADJUST AIR PATTERN CONTROLLERS TO BLOW STRAIGHT DOWN.

AIR BALANCE SCHEDULE - TRANE

Mark	SUPPLY AIR (CFM)	RETURN AIR (CFM)	OUTSIDE AIR (CFM)	EXHAUST AIR (CFM)	PRESSURE (CFM)
EF-1	0	0	0	1,913	-1,913
EF-2	0	0	0	1,402	-1,402
EF-3	0	0	0	360	-360
RTU-1	8,125	6,360	1,765	0	1,765
RTU-2	4,375	3,525	850	0	850
RTU-3	5,250	5,250	1,275	0	1,275
RTU-4	1,400	1,220	180	0	180
RTU-5	1,300	1,055	245	0	245
	20,450	17,410	4,315	3,675	640

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.



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

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

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



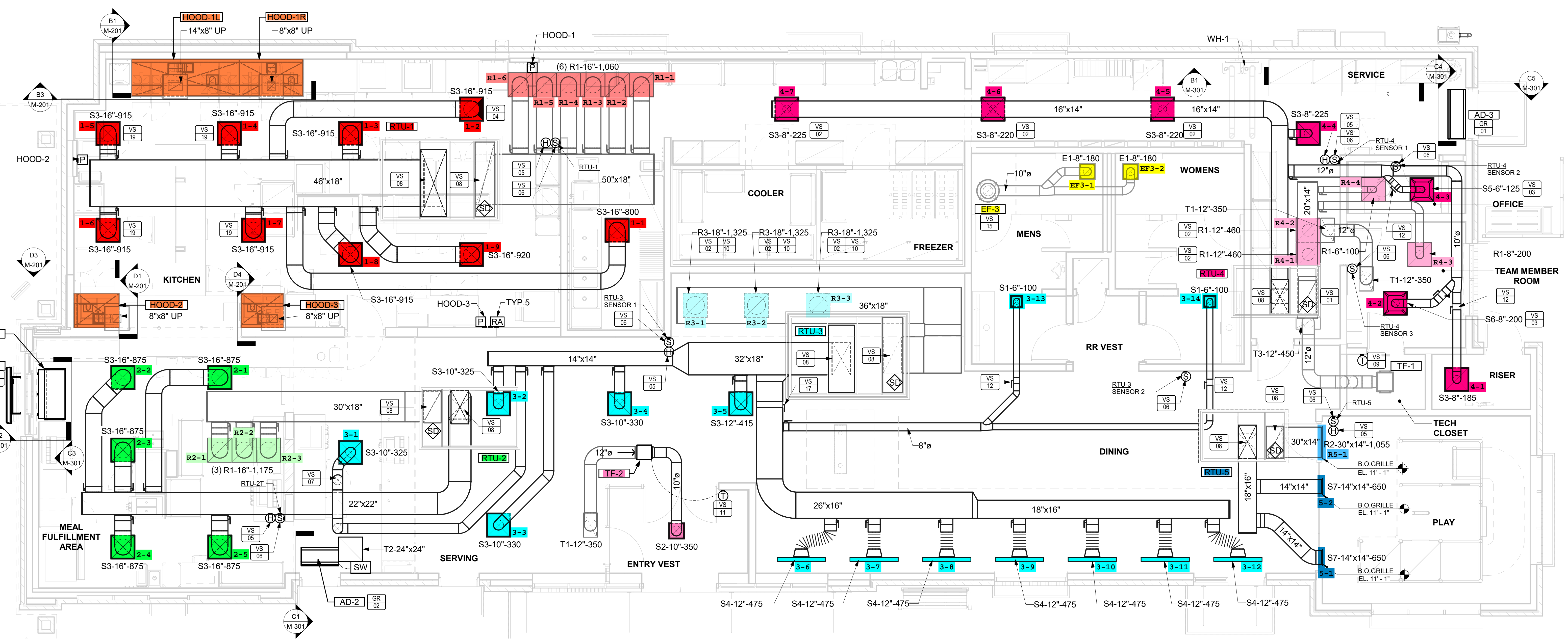
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 SHEET
 EQUIPMENT AND DUCTWORK PLAN (TRANE)
 SHEET NUMBER

M-101



1 EQUIPMENT AND DUCTWORK PLAN (LENNOX)
 1/4" = 1'-0"

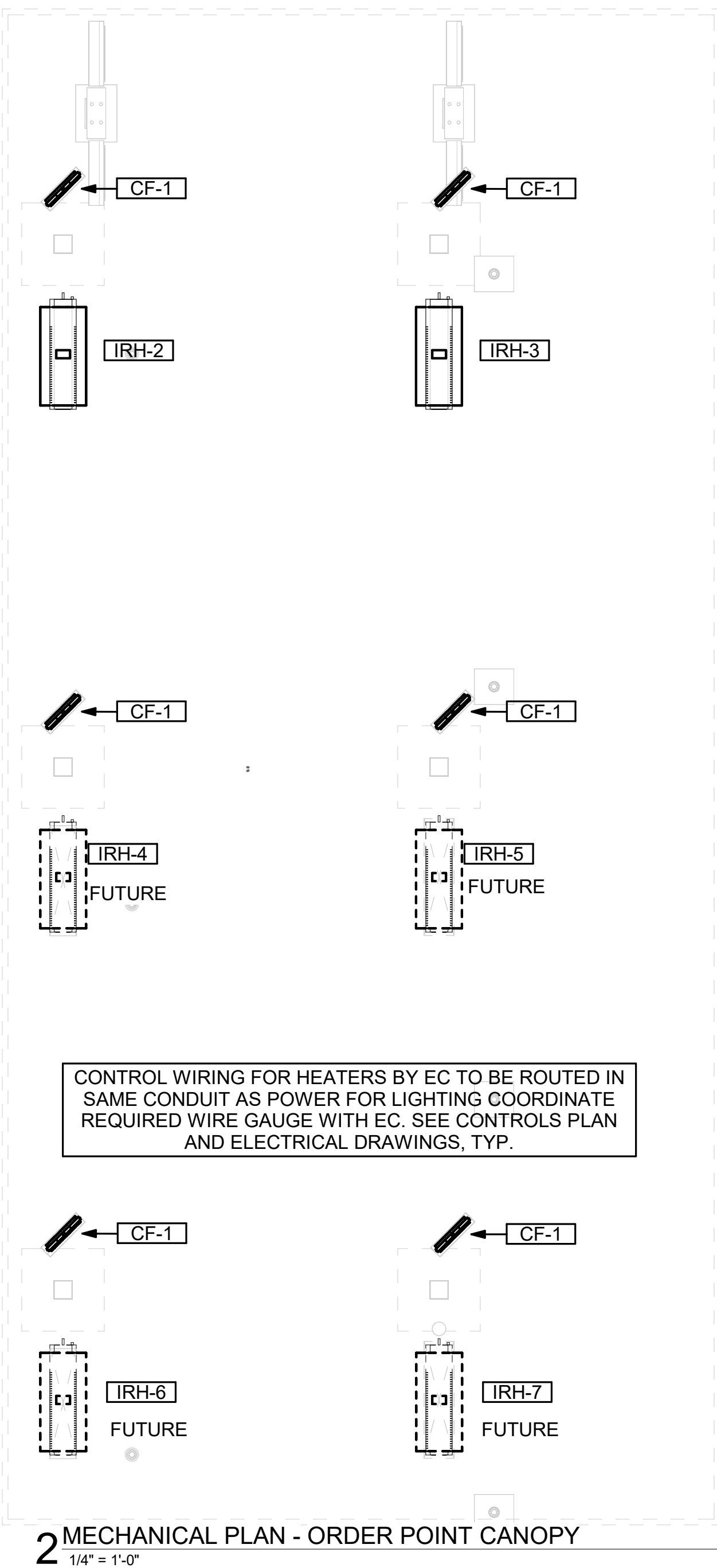
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RTU-2	4,375	3,525	850	0	850
RTU-3	5,250	5,250	1,275	0	1,275
RTU-4	1,400	1,220	180	0	180
RTU-5	1,300	1,055	245	0	245
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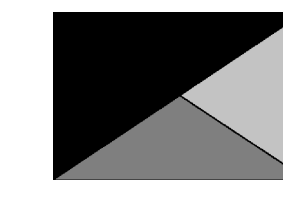


2 MECHANICAL PLAN - ORDER POINT CANOPY
 1/4" = 1'-0"

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



Kurzynske & Associates
 2705 Lebanon Pike - Suite One
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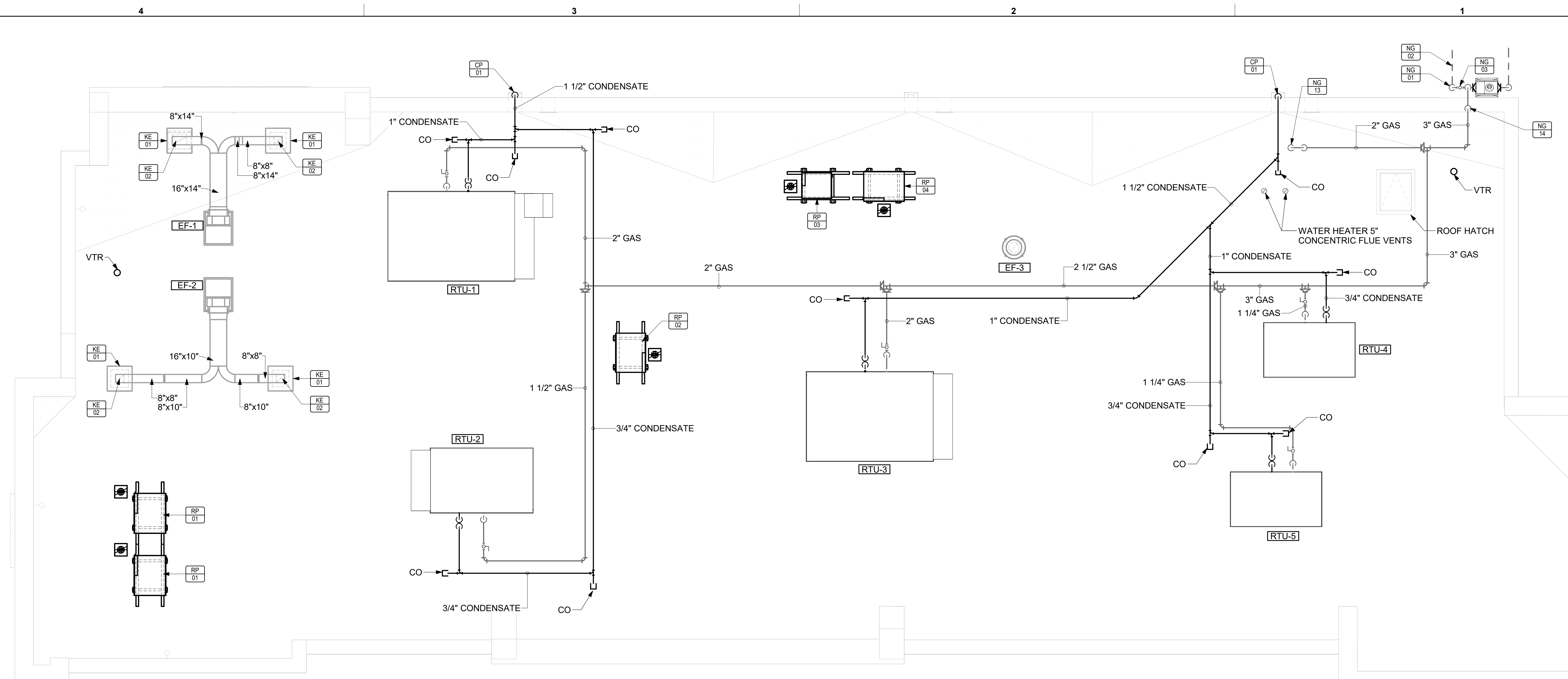
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 EQUIPMENT ROOF PLAN (TRANE)
 SHEET NUMBER

M-102



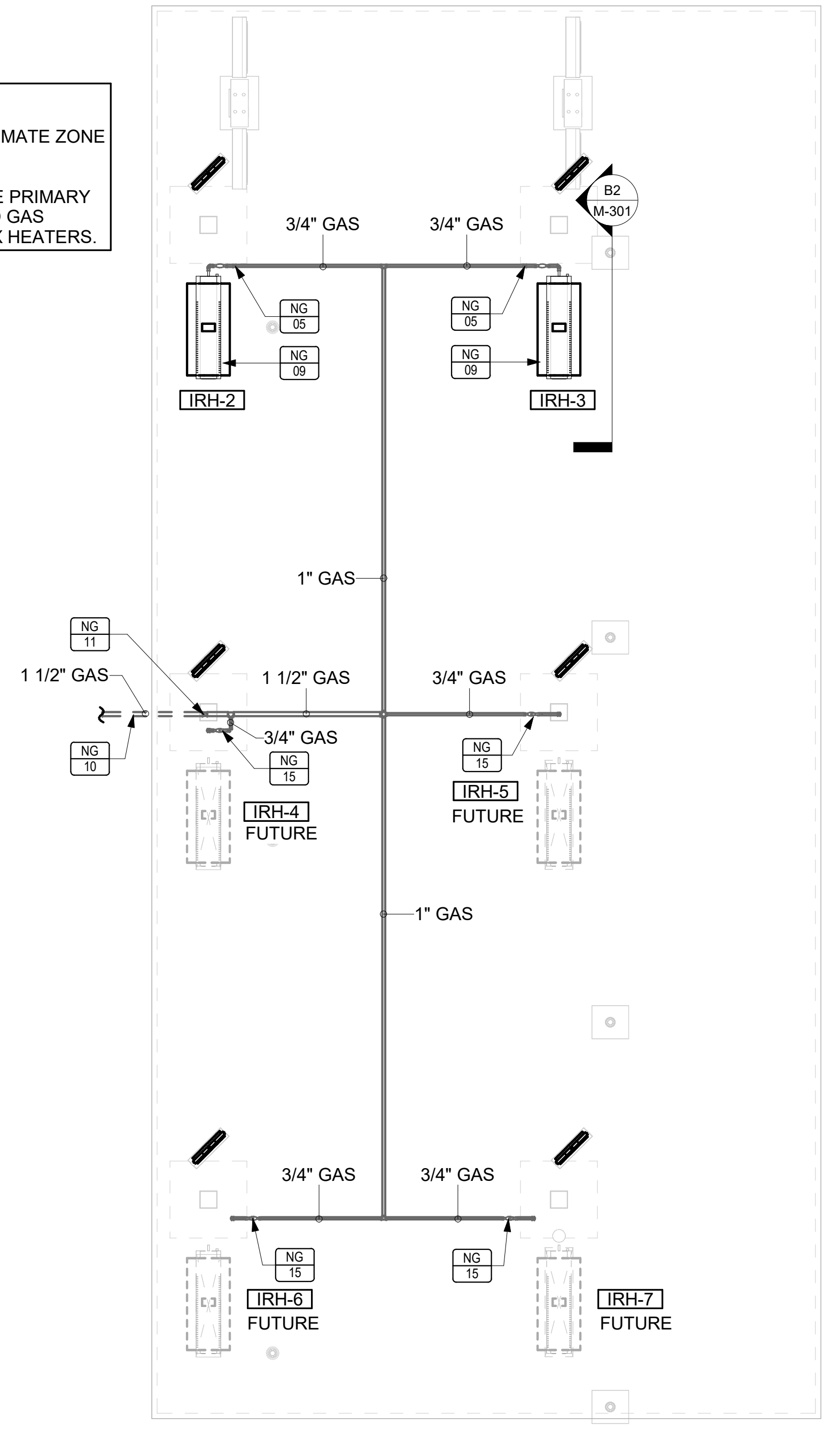
1 MECHANICAL ROOF PLAN (TRANE)
 1/4" = 1'-0"

KEY NOTES

- CP 01 TERMINATE CONDENSATE PIPE ABOVE ROOF SCUPPER WITH 90 DEGREE ELBOW AND ALUMINUM OR STAINLESS STEEL SCREEN.
- KE 01 ROOF CURB FOR DUCT PENETRATION. REFER TO MH-1.4 AND MH-1.5 FOR DETAILS.
- KE 02 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.
- NG 01 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.
- NG 02 1-1/2" GAS UNDERGROUND TO ORDER CANOPY (SEE PLAN 2/M102 FOR CONTINUATION).
- NG 03 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."
- NG 05 3/4" GAS PIPING DOWN THROUGH CANOPY TO INFRARED HEATER.
- NG 09 SEE DETAIL B2/M-301 FOR PIPING AT IRH, TYPICAL.
- NG 10 1-1/2" GAS UNDERGROUND FROM METER. SEE PLAN 1/M-102 FOR CONTINUATION.
- NG 11 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.
- NG 13 2" DOWN THROUGH ROOF (SEE M-101 FOR CONTINUATION) PROVIDE FLASHING AT PIPE PENETRATION.
- NG 14 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.
- NG 15 NATURAL GAS PIPING FOR FUTURE HEATERS. PROVIDE SHUT-OFF VALVE AND CAP PIPING ABOVE DECK.
- RP 01 REMOTE CONDENSING UNIT FOR 1800 LB. ICE MAKER (KEQ#380D).
- RP 02 REMOTE CONDENSING UNIT FOR 1400 LB. ICE MAKER (KEQ#380).
- RP 03 REMOTE CONDENSING UNIT FOR WALK-IN COOLER (KEQ#449).
- RP 04 REMOTE CONDENSING UNIT FOR WALK-IN FREEZER (KEQ#410).

GAS LOAD SCHEDULE	
EQUIPMENT	GAS LOAD
RTU-1T	400,000 BTUS
RTU-2T	250,000 BTUS
RTU-3T	400,000 BTUS
RTU-4T	130,000 BTUS
RTU-5T	130,000 BTUS
IRH (2 @ 50,000 BTU EA.)	100,000 BTUS
IRH (FUTURE 4 @ 50,000 BTU EA.)	200,000 BTUS
WATER HEATER	398,000 BTUS
TOTAL FUTURE CONNECTED LOAD	2,008,000 BTUS
REMARKS:	1. EQUIVALENT TO 2,008.0 CFH 2. 7" W.C. DELIVERY PRESSURE 3. DEVELOPED LENGTH: 250 FT. (METER TO RTU-2) 4. GAS PIPING SIZED FOR FUTURE LOAD PER IFGC TABLE 402.4(2).

NOTE TO DESIGNER:
 THE USE OF INFRARED HEATERS (IRH) IS DETERMINED BY CLIMATE ZONE (SEE CLIMATE ZONE TABLE).
 THE STANDARD IS TWO HEATERS AT THE PRIMARY ORDER POSITION WITH ELECTRICAL AND GAS PIPING INFRASTRUCTURE FOR UP TO SIX HEATERS.



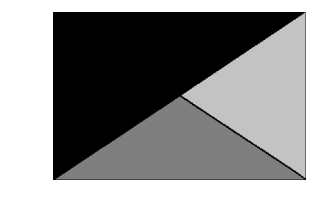
2 GAS PIPING PLAN - ORDER POINT CANOPY
 1/4" = 1'-0"

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 30-LE-05767-M-102-EQUIPMENT ROOF PLAN (TRANE)



Chick-fil-A

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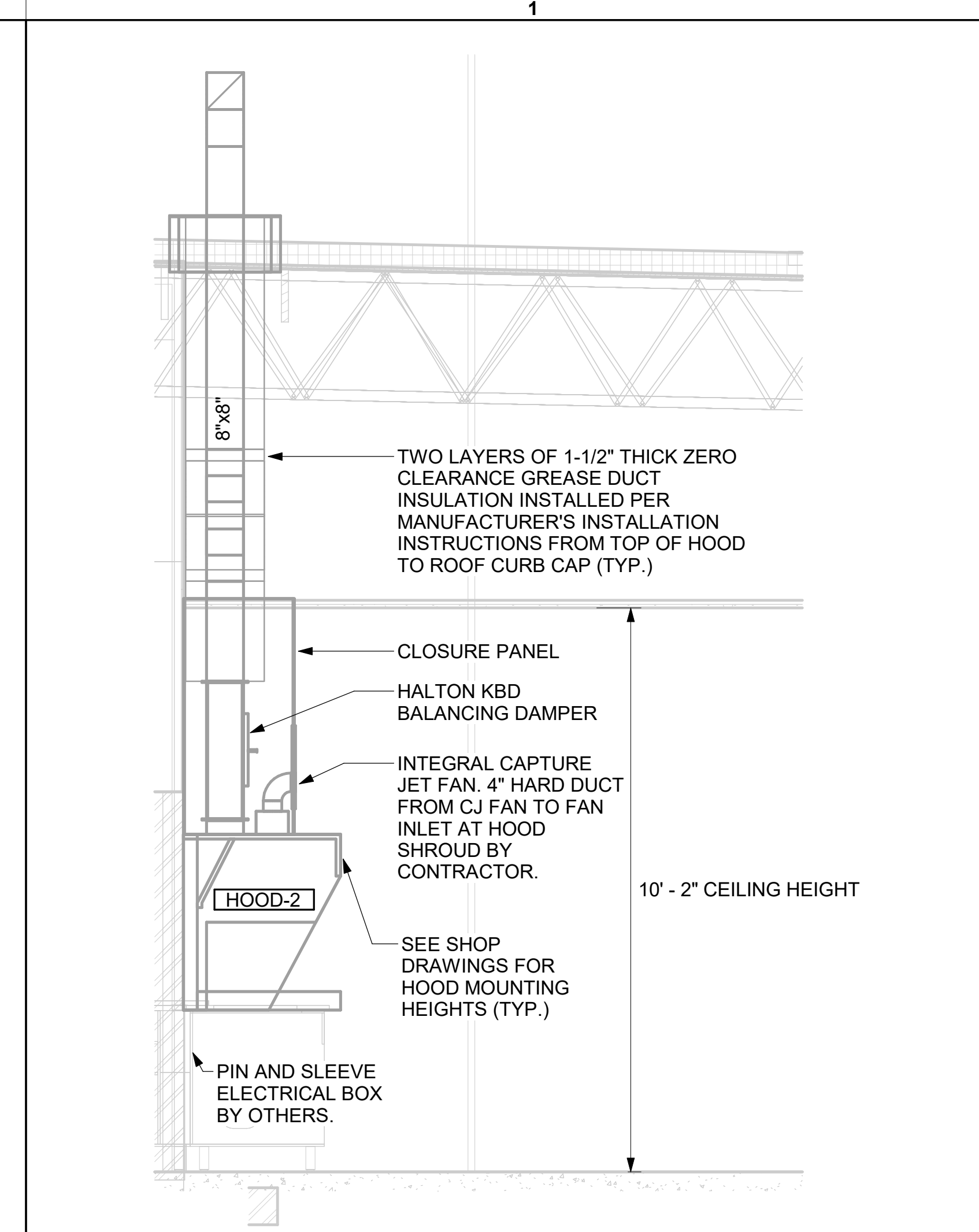
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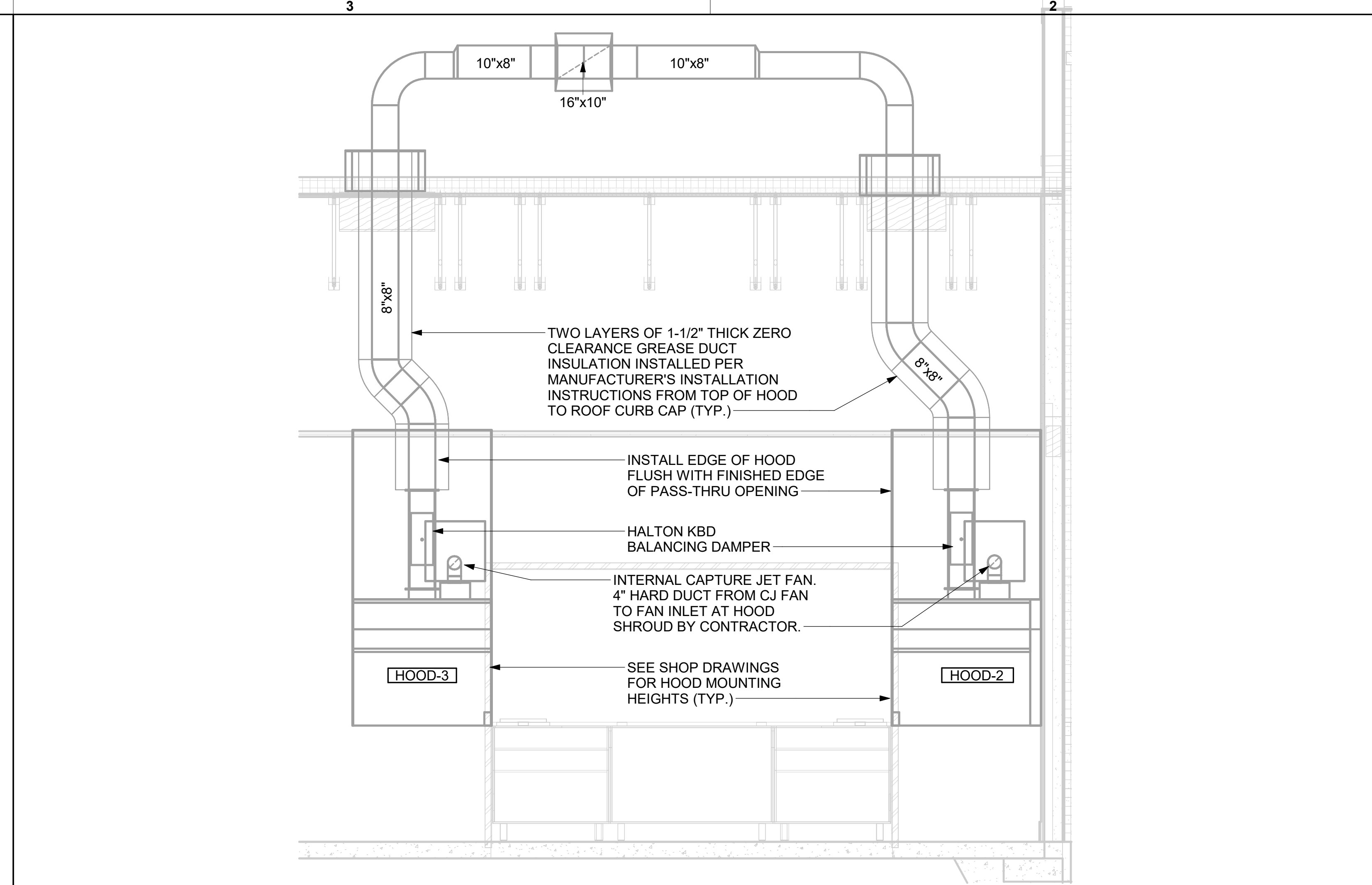
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SHEET
EXHAUST HOOD
ELEVATIONS

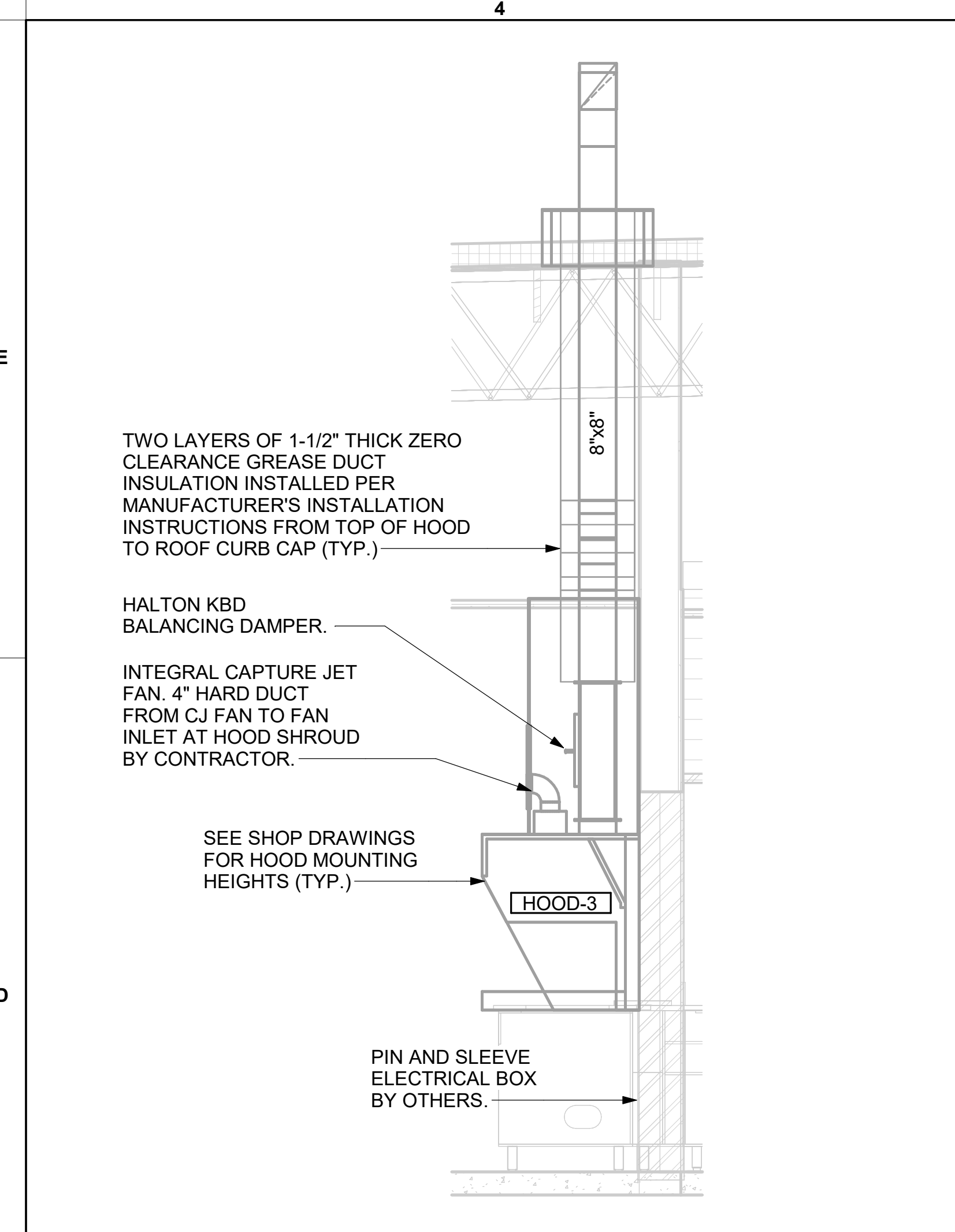
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M-201



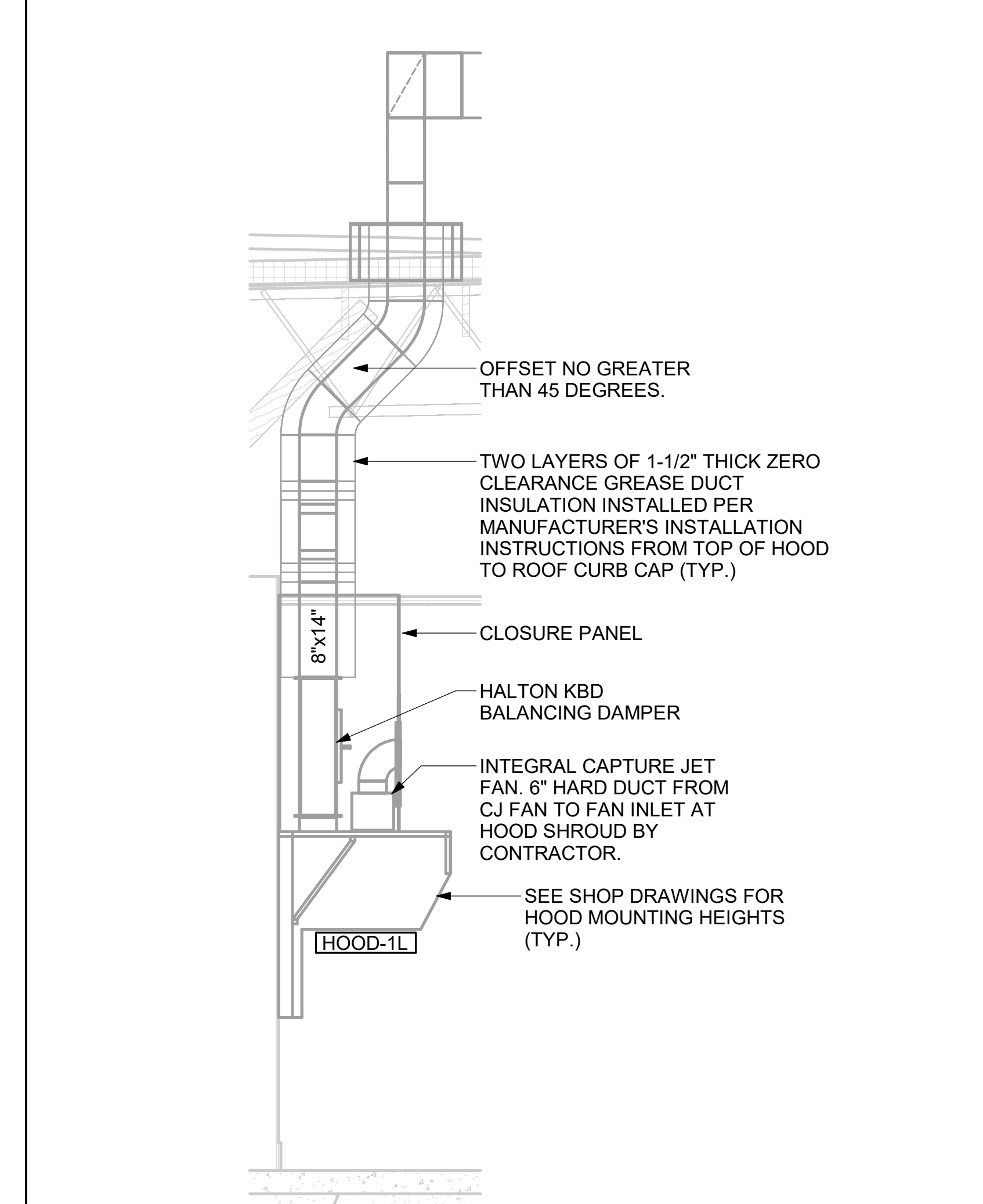
D1 ELEVATION - HOOD-2 - SIDE
NOT TO SCALE



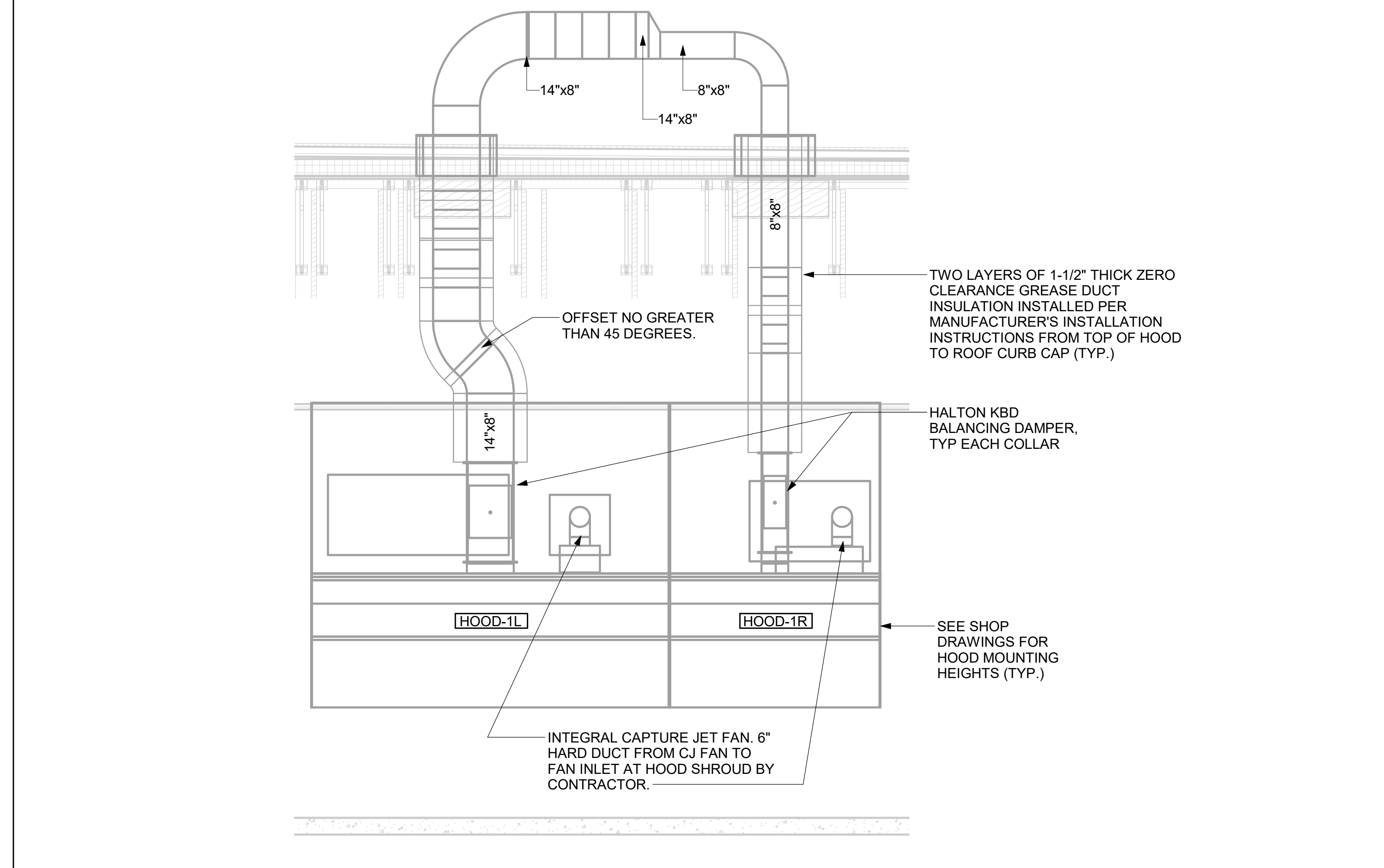
D3 ELEVATION - HOOD-2 & 3 - FRONT
NOT TO SCALE



D4 ELEVATION - HOOD-3 - SIDE
NOT TO SCALE



B1 ELEVATION - HOOD-1 - SIDE
NOT TO SCALE

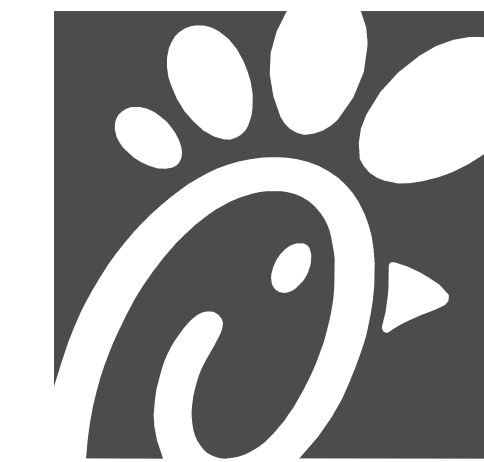


B3 ELEVATION - HOOD-1 - FRONT
NOT TO SCALE

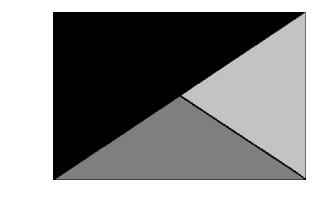
CLEANOUT DOOR NOTE:
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS. NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

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.

Autodesk Docs: \NY_05767_Fairport Nine Mile FSU_2024.7_FSR05767_Fairport Nine Mile FSU_K&A_MEC.rvt
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30-LE-05767-M-201-EXHAUST HOOD ELEVATIONS



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



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



10/29/25

CHICK-FIL-A
FAIRPORT NINE MILE FSU
 2051 FAIRPORT NINE MILE RD
 PENFIELD, NY 14526

FSR#05767

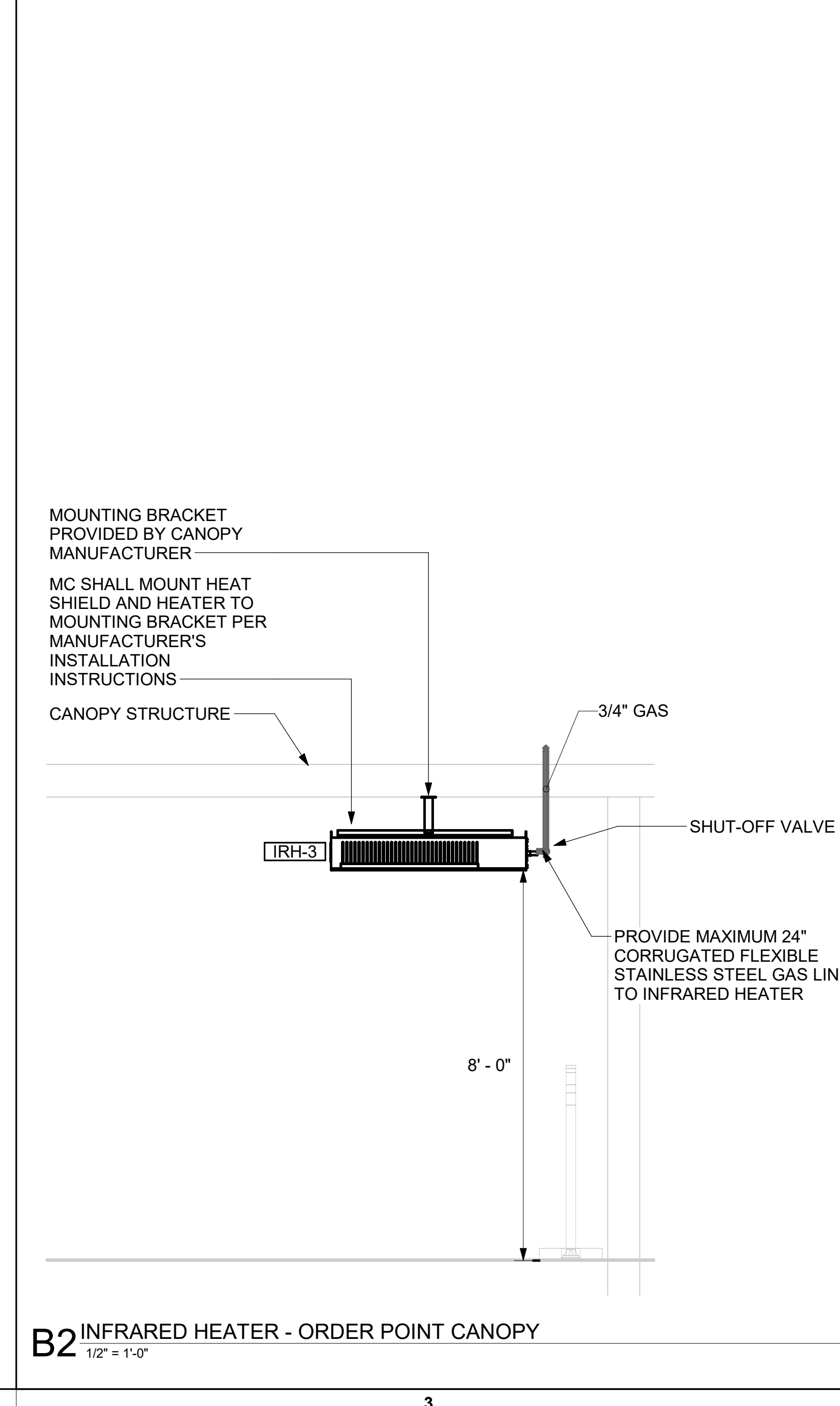
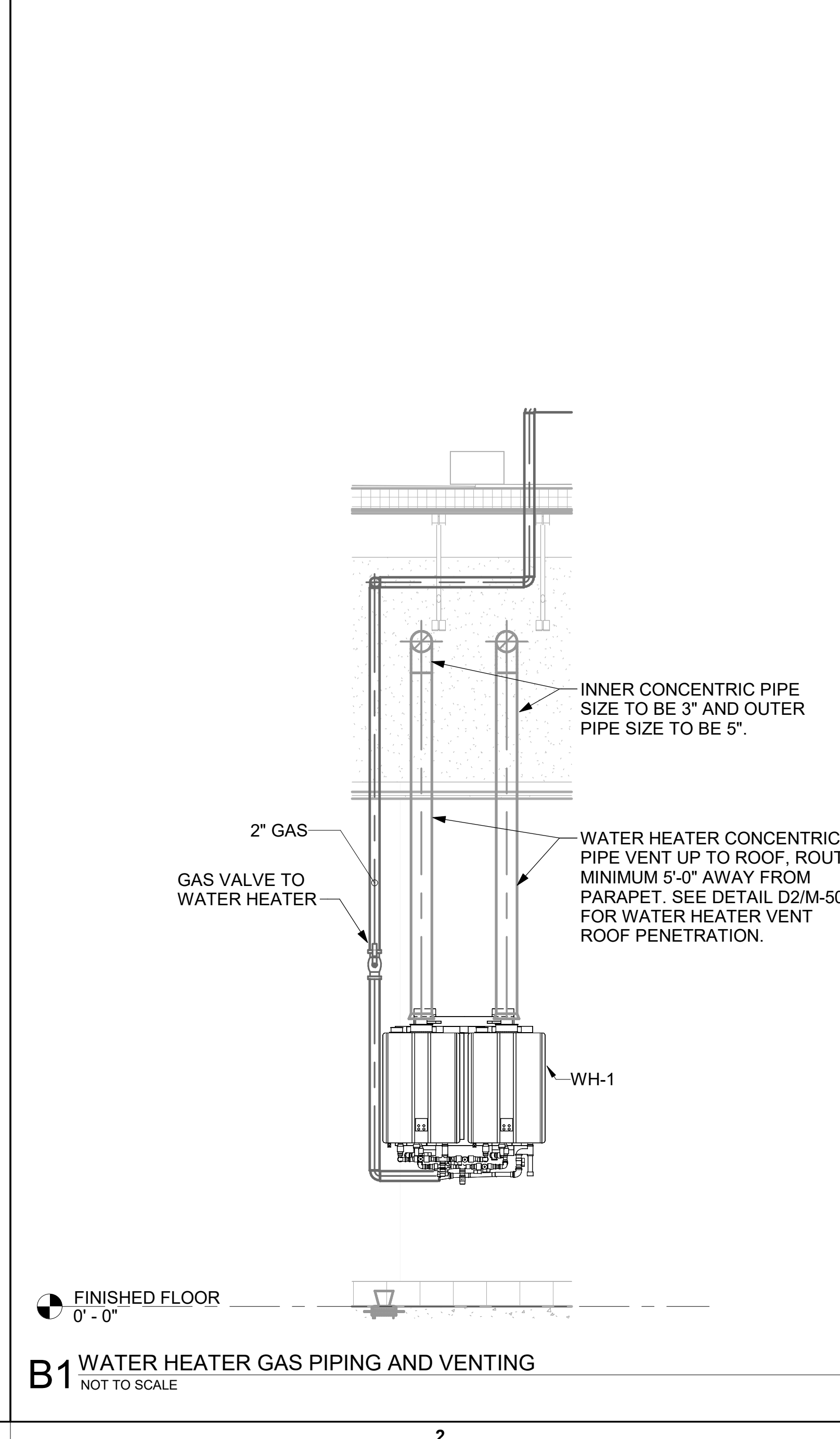
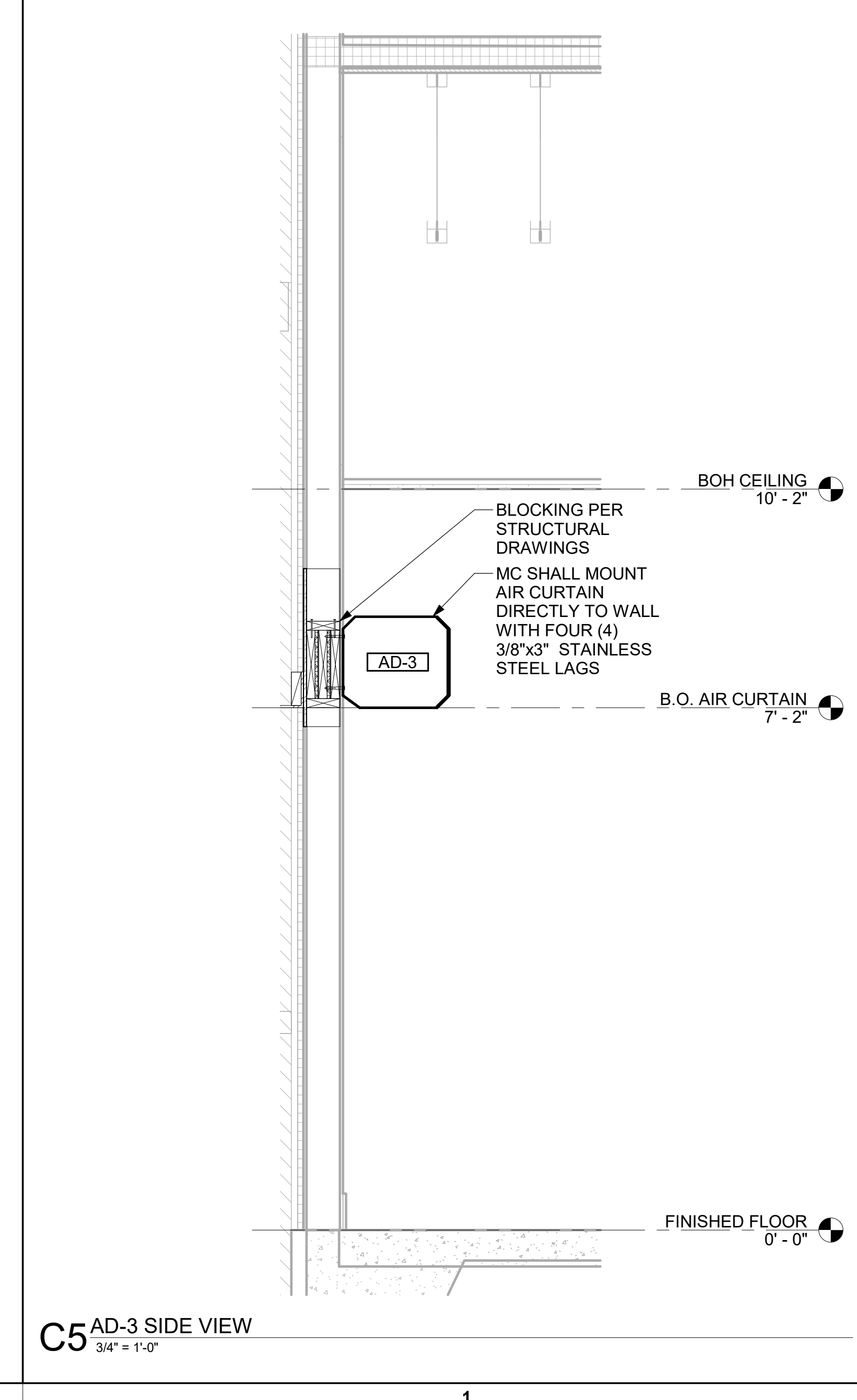
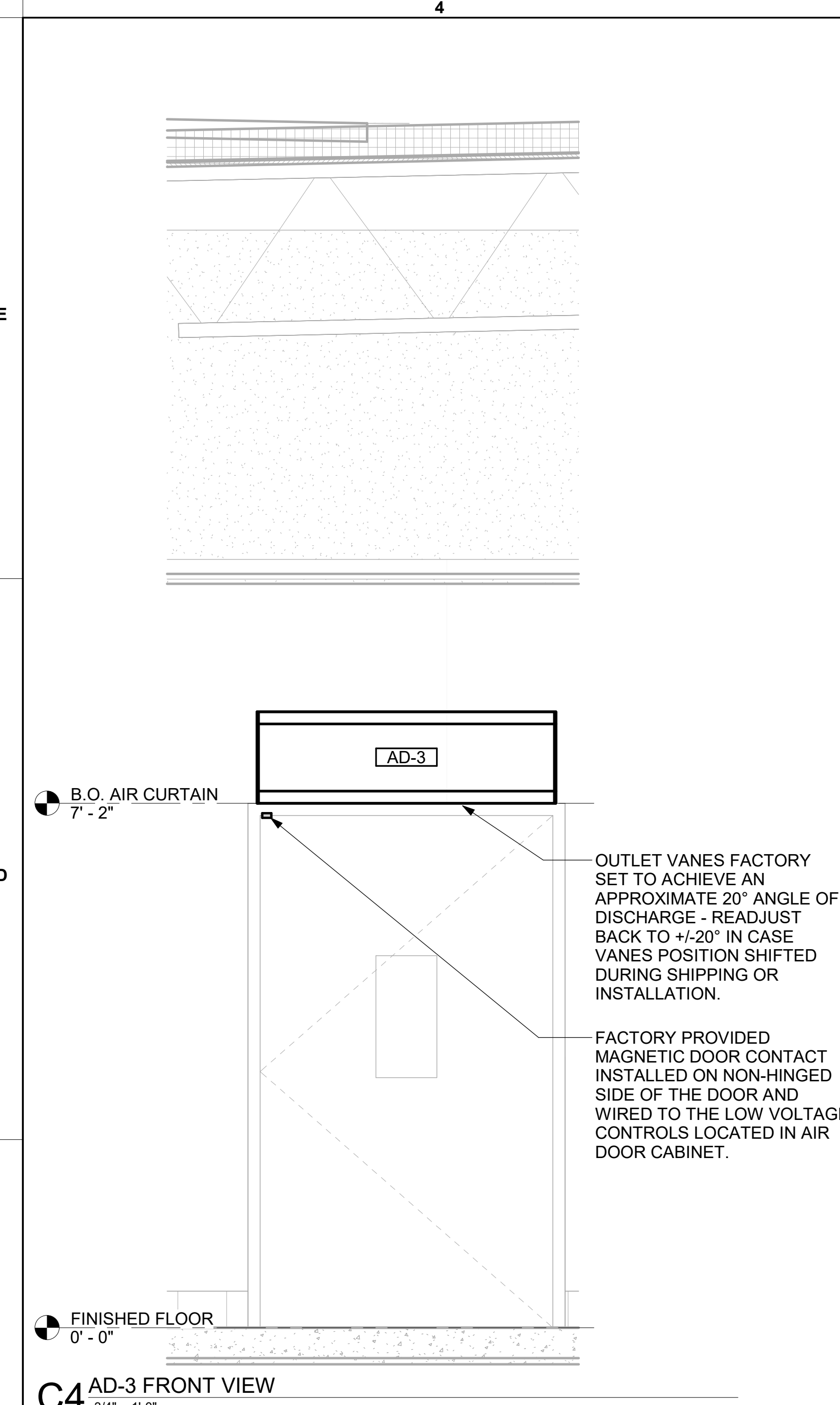
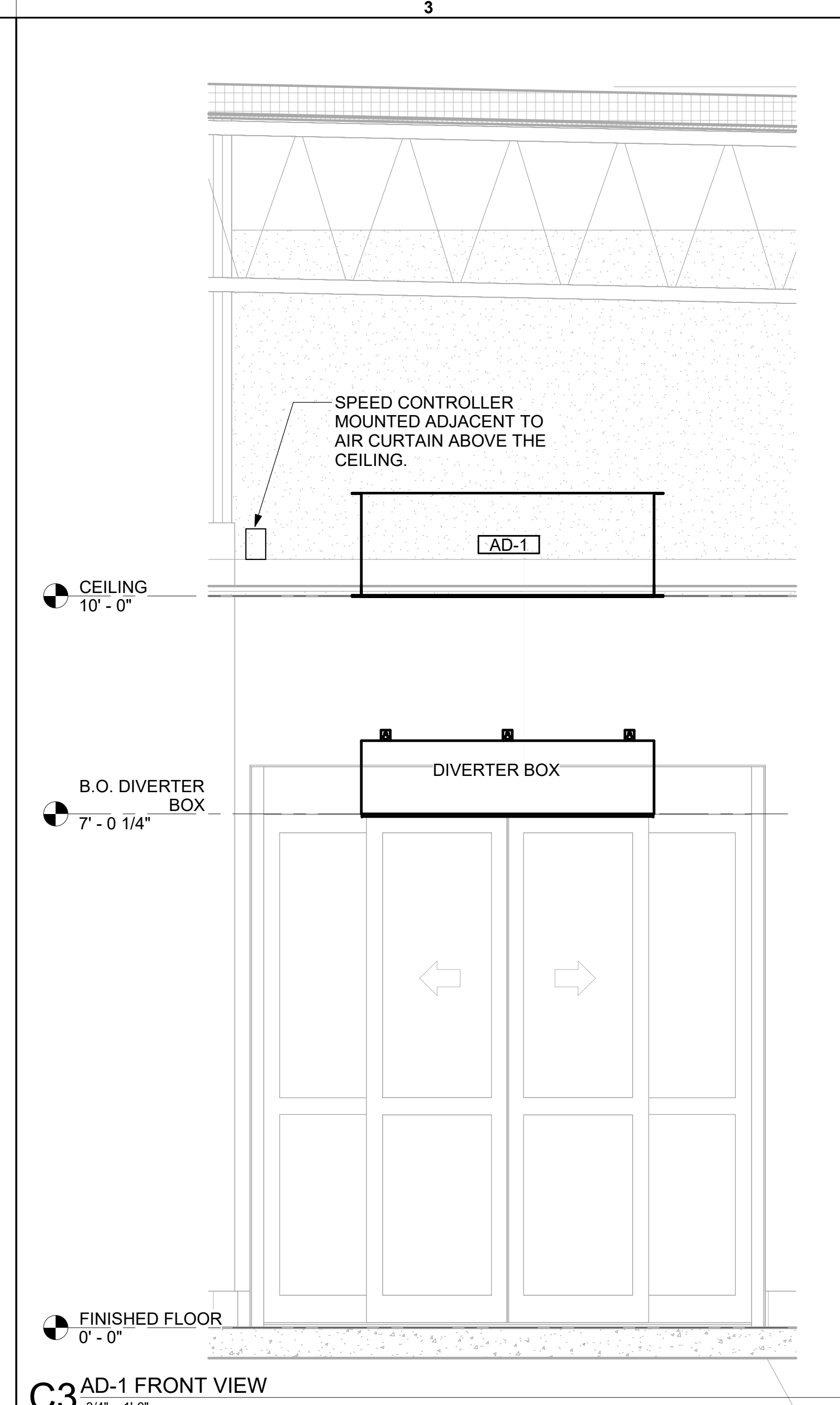
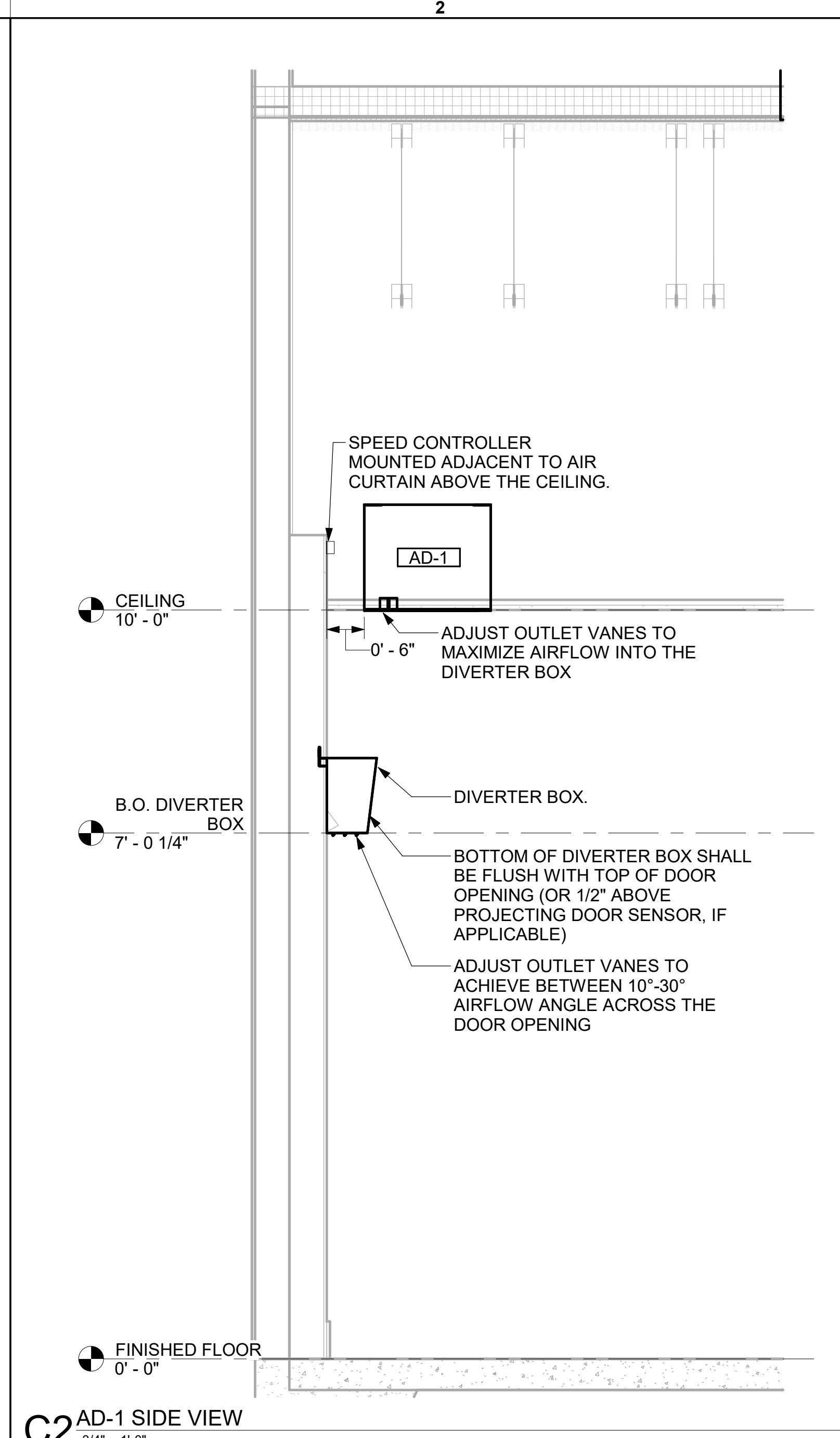
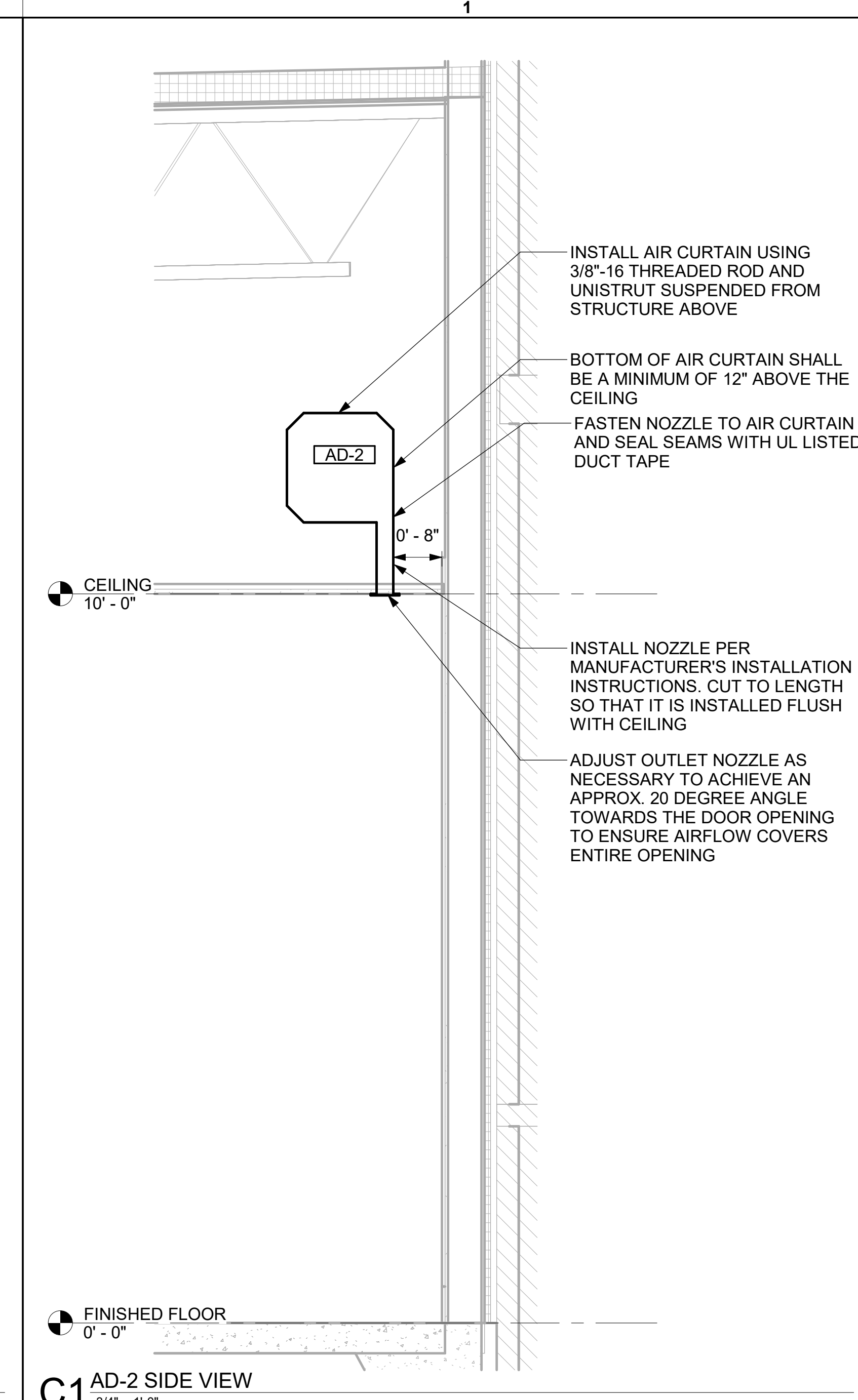
BUILDING TYPE / SIZE: P14 LE BASE
 RELEASE: 25.06
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REVISION SCHEDULE
 NO. DATE DESCRIPTION
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CONSULTANT PROJECT # 25104.CD.S
 DATE 10/29/2025
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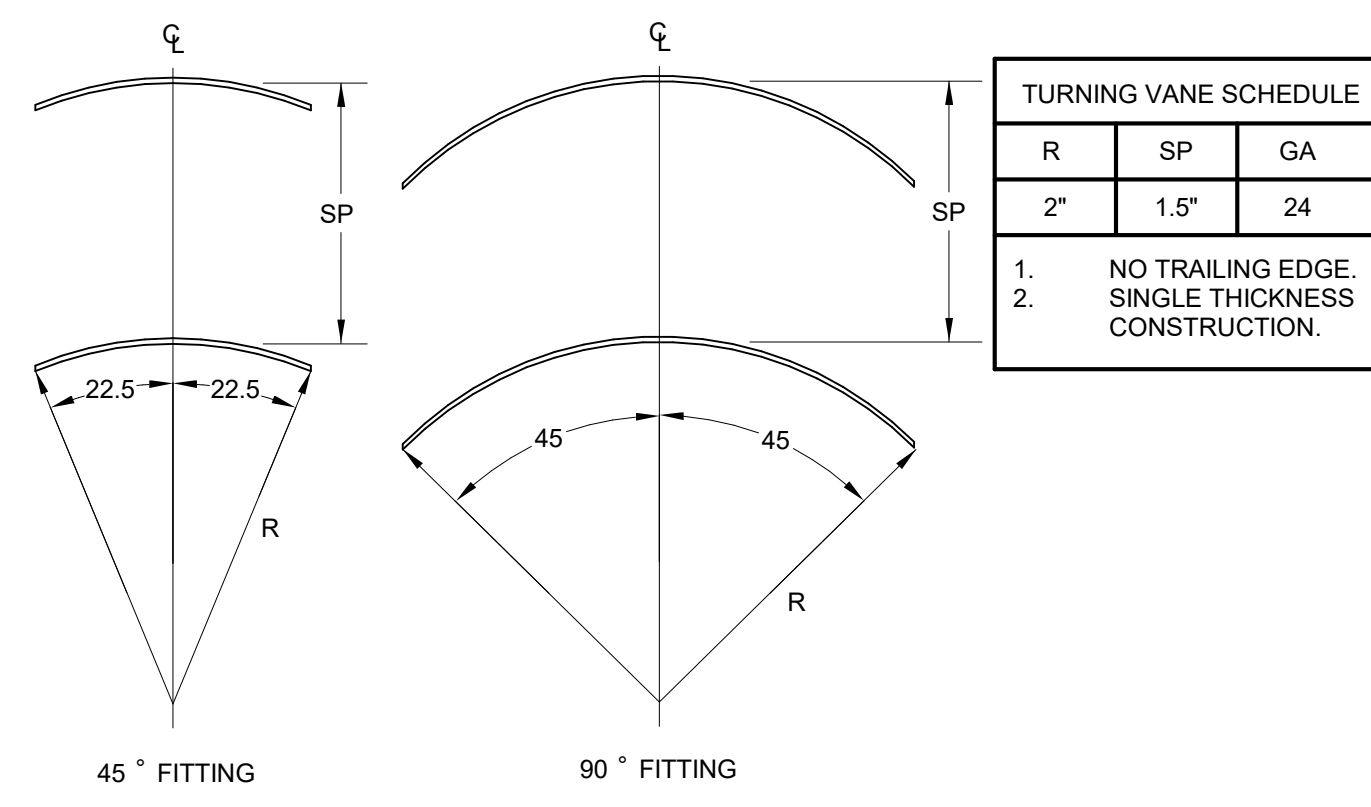
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SHEET SECTIONS

SHEET NUMBER
M-301



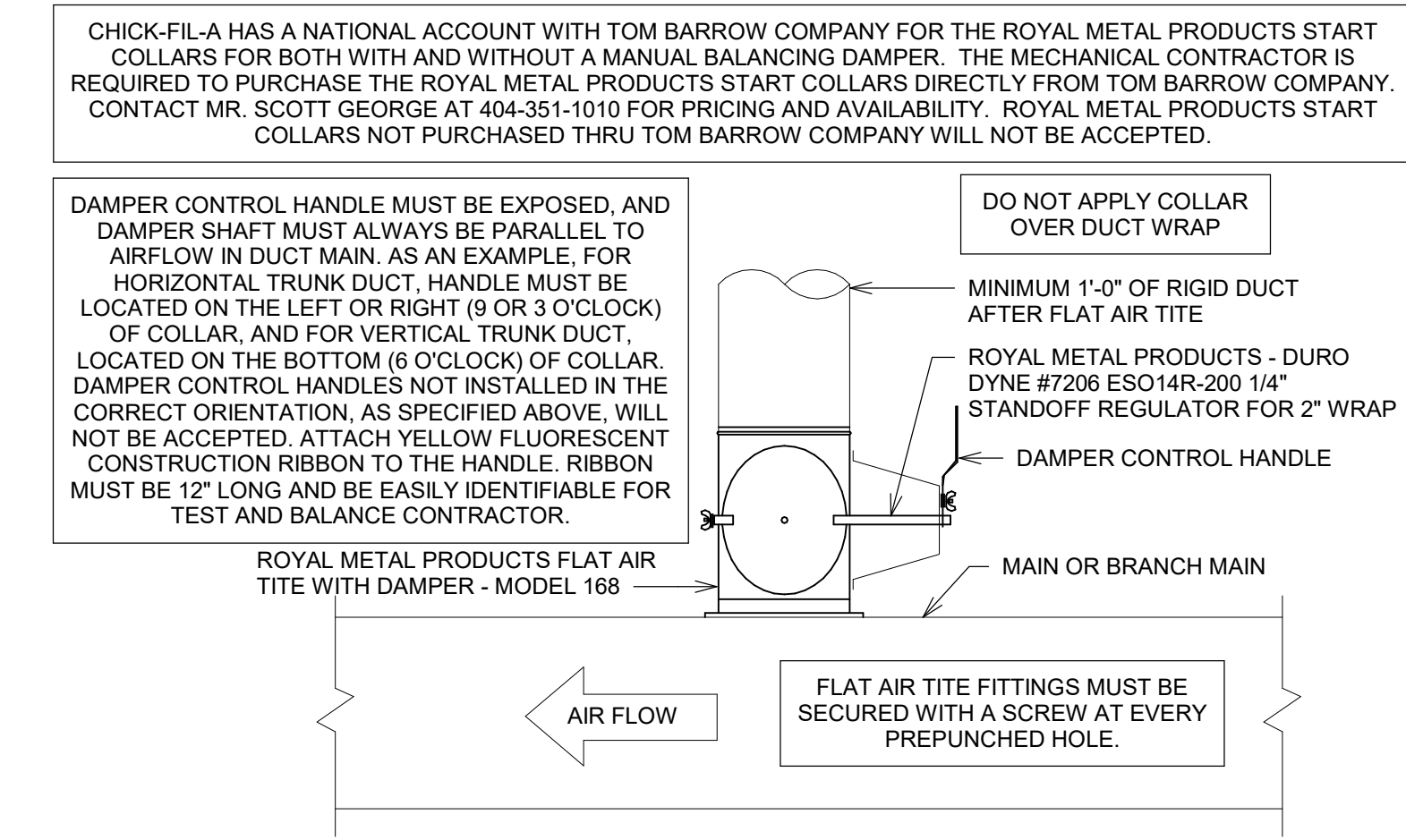
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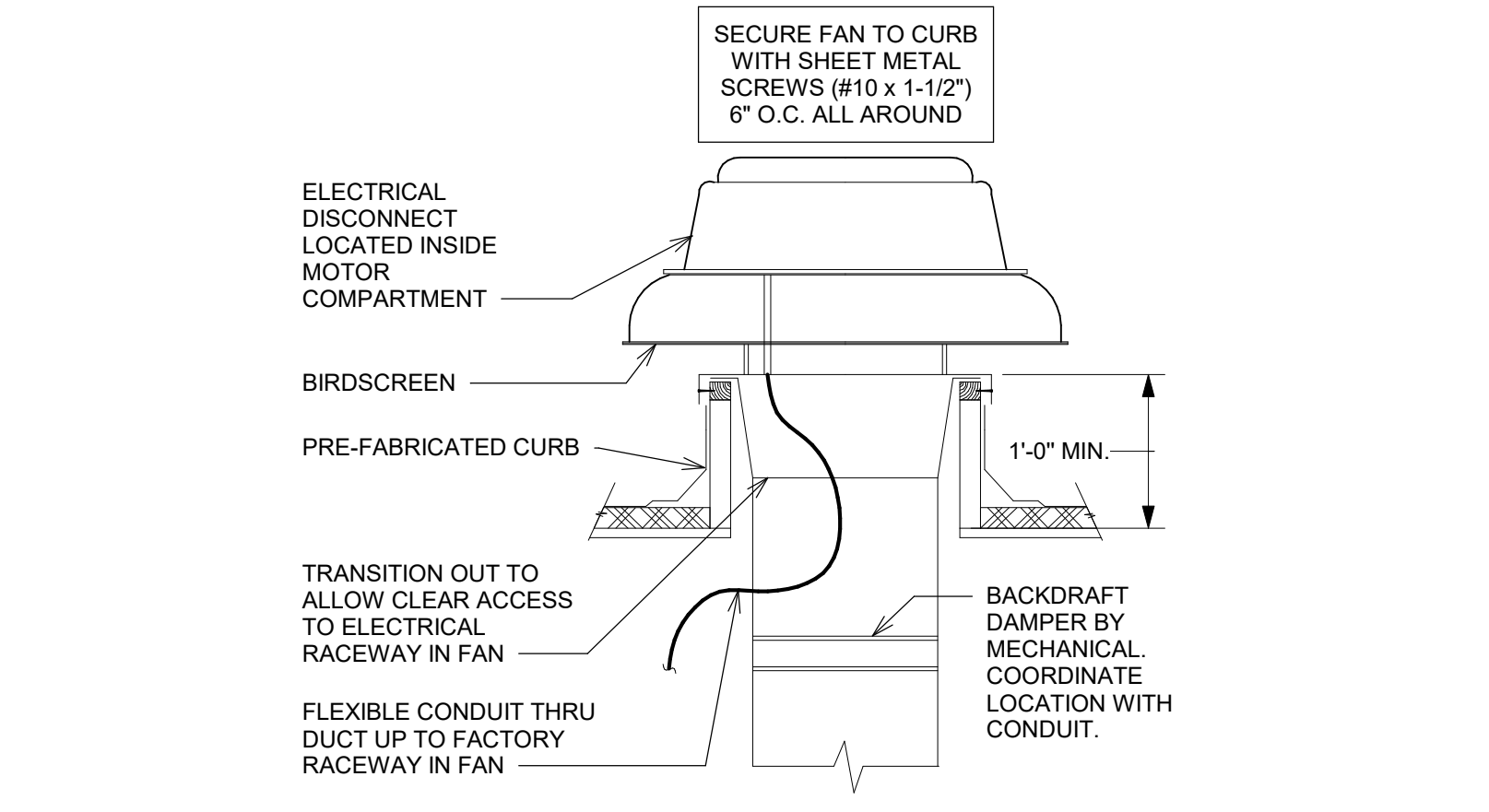
TURNING VANE SCHEDULE		
R	SP	GA
2"	1.5"	24

1. NO TRAILING EDGE. SINGLE THICKNESS CONSTRUCTION.

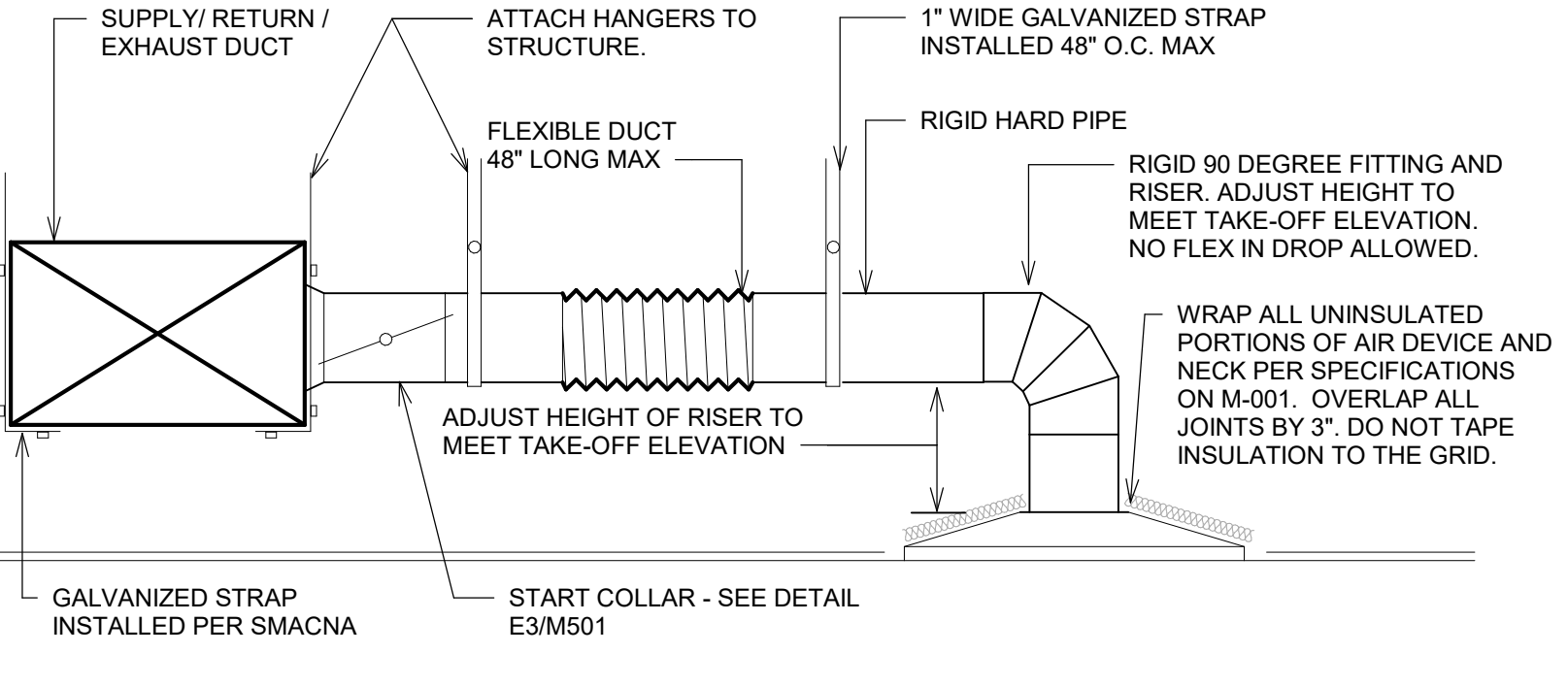
E4 TURNING VANES
NTS



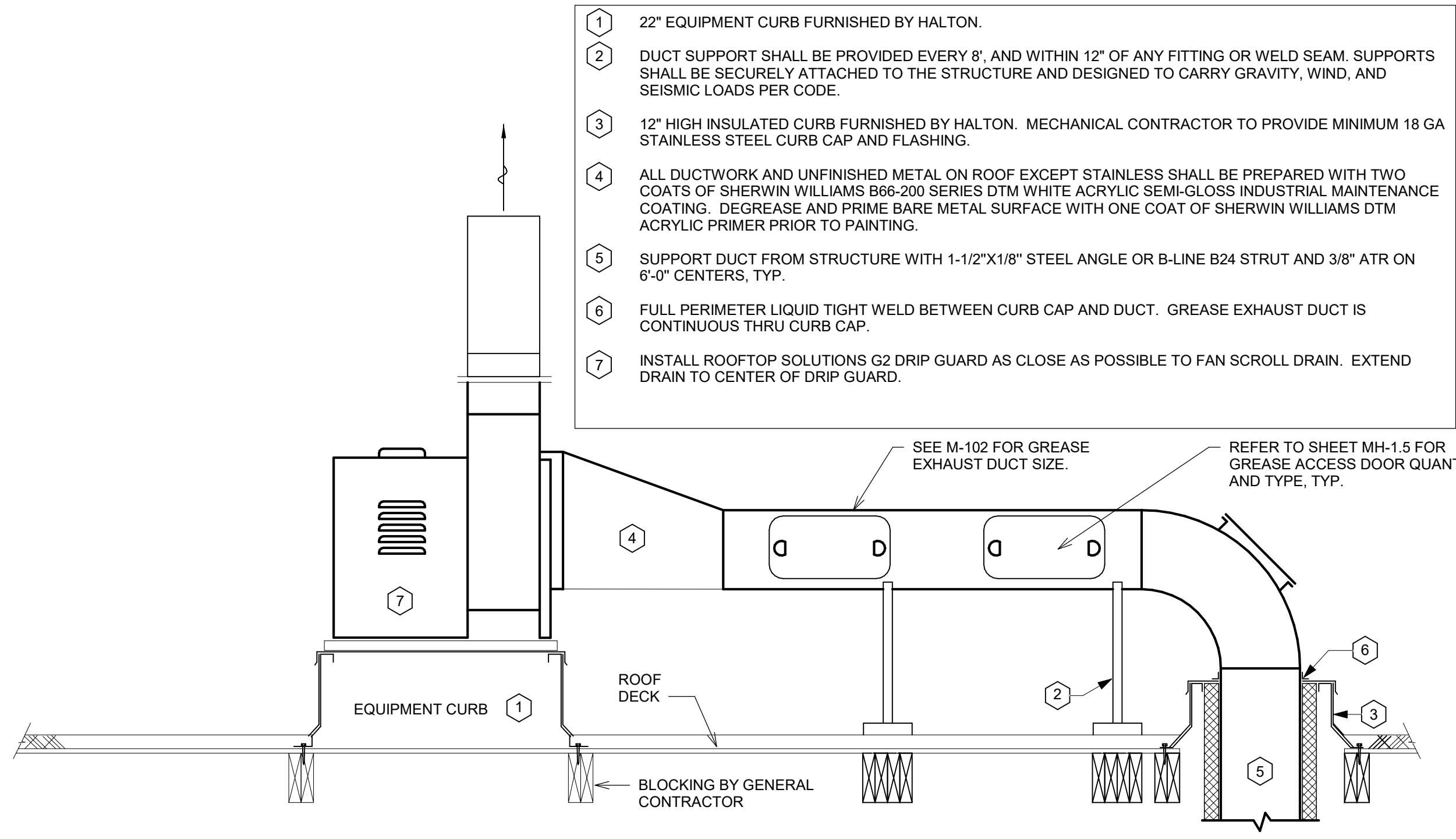
E3 START COLLAR
NTS



E2 RESTROOM EXHAUST FAN
NTS



E1 SAG/RAG/GRILLE TAKE-OFF
NTS

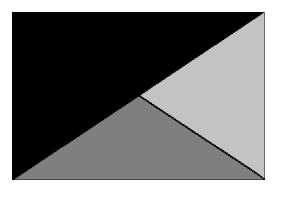


- 22" EQUIPMENT CURB FURNISHED BY HALTON.
- DUCT SUPPORT SHALL BE PROVIDED EVERY 8', AND WITHIN 12" OF ANY FITTING OR WELD SEAM. SUPPORTS SHALL BE SECURELY ATTACHED TO THE STRUCTURE AND DESIGNED TO CARRY GRAVITY, WIND, AND SEISMIC LOADS PER CODE.
- 12" HIGH INSULATED CURB FURNISHED BY HALTON. MECHANICAL CONTRACTOR TO PROVIDE MINIMUM 18 GA STAINLESS STEEL CURB CAP AND FLASHING.
- ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS 896-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.
- SUPPORT DUCT FROM STRUCTURE WITH 1-1/2"x1/8" STEEL ANGLE OR B-LINE B24 STRUT AND 3/8" ATR ON 6'-0" CENTERS, TYP.
- FULL PERIMETER LIQUID TIGHT WELD BETWEEN CURB CAP AND DUCT. GREASE EXHAUST DUCT IS CONTINUOUS THRU CURB CAP.
- INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD AS CLOSE AS POSSIBLE TO FAN SCROLL DRAIN. EXTEND DRAIN TO CENTER OF DRIP GUARD.

C1 KITCHEN HOOD EXHAUST FAN
NTS



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



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



10/29/25

CHICK-FIL-A
FAIRPORT NINE MILE FSU
2051 FAIRPORT NINE MILE RD
PENFIELD, NY 14526

FSR#05767

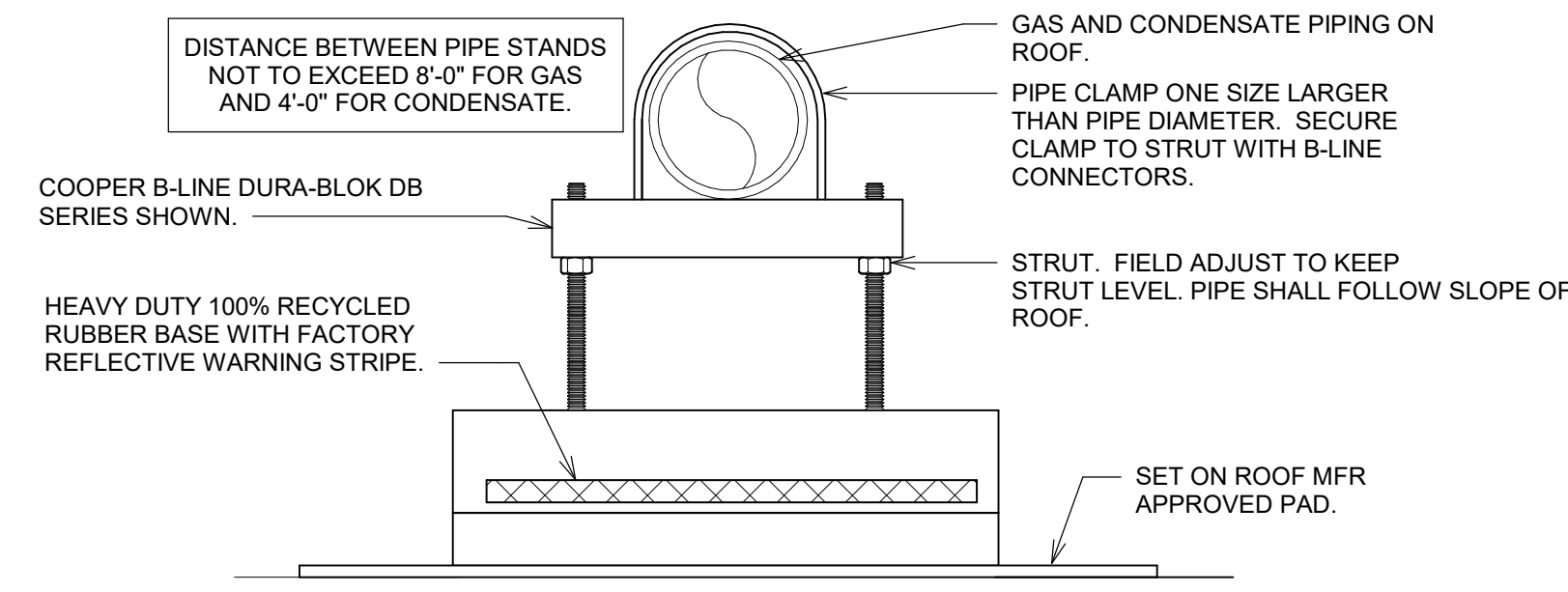
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RELEASE:	25.06	
PRINTED FOR:	ISSUE FOR PERMIT	
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT #	25104.CD.S
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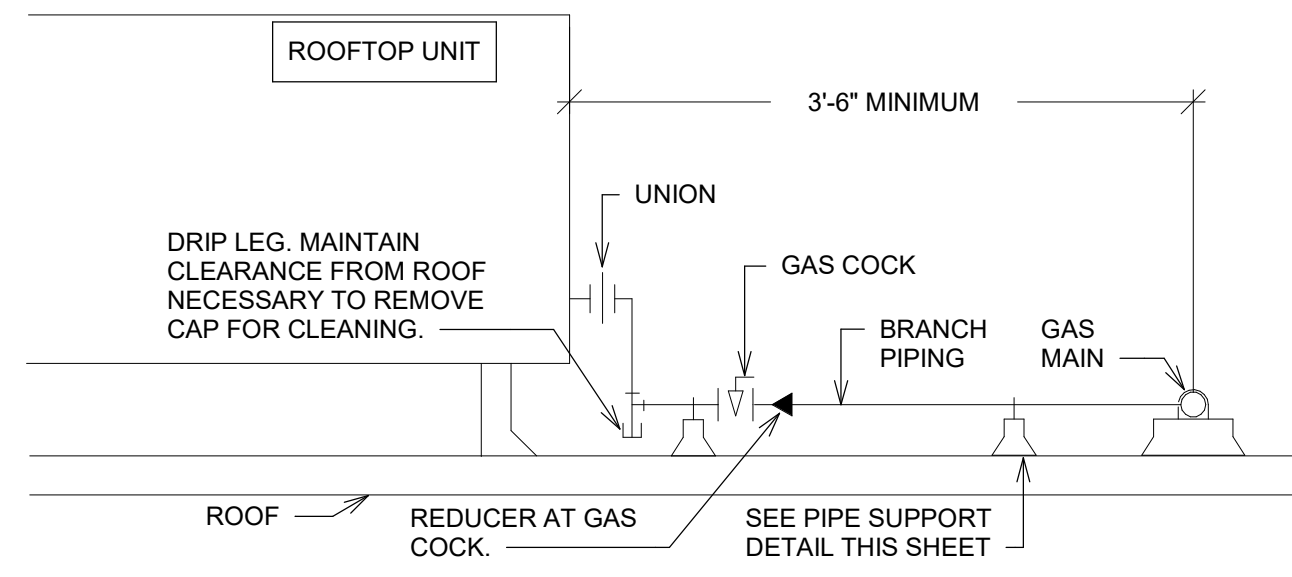
SHEET
DETAILS
SHEET NUMBER
M-501

- NOTES:**
- NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 - 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.
 - 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.

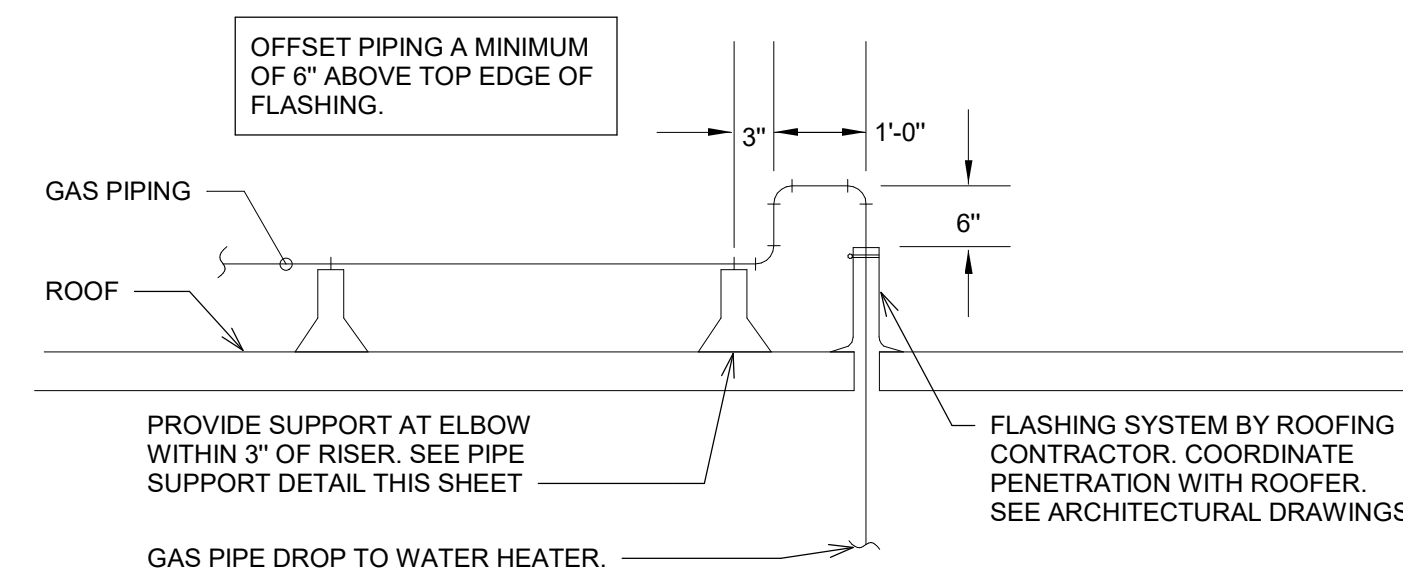


E4 PIPING SUPPORT ON ROOF
NTS

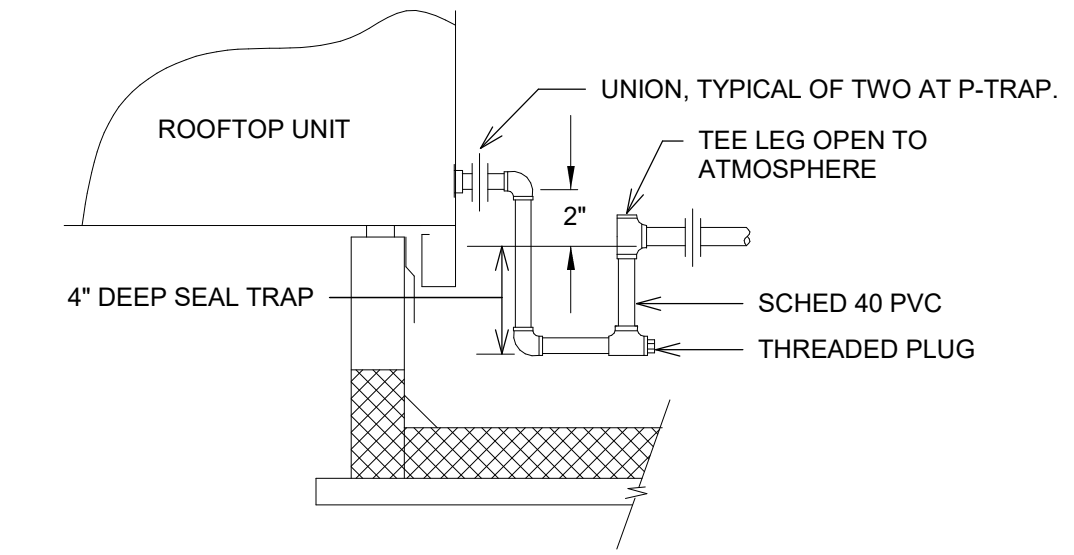
- NOTES:**
- INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
 - TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-0" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
 - ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



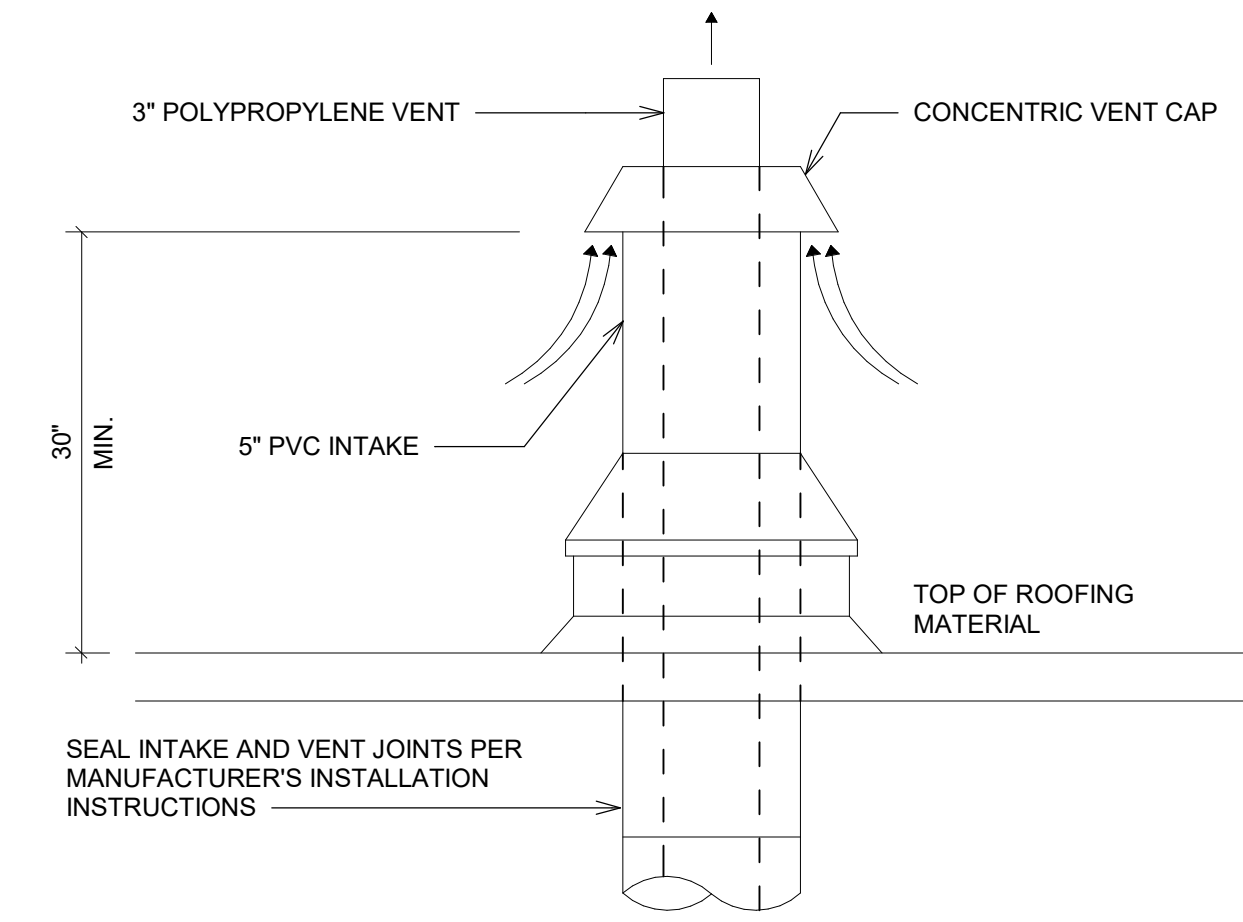
E3 GAS PIPING AT RTU
NTS



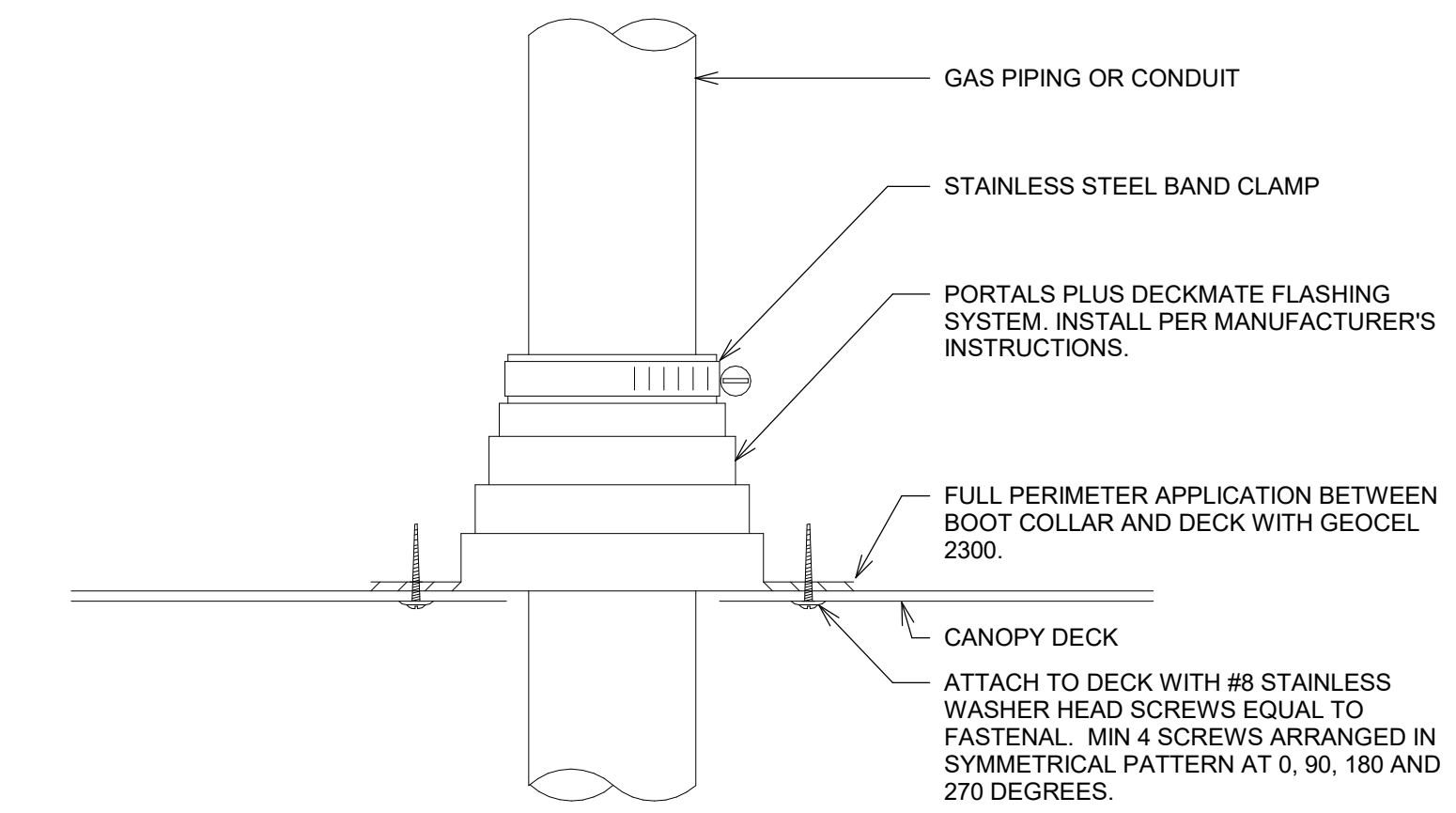
E2 GAS PIPE DROP TO WATER HEATER
NTS



E1 CONDENSATE DRAIN PIPING
NTS



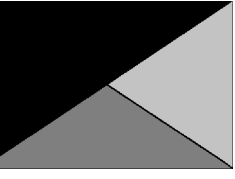
D2 WATER HEATER VENT ROOF PENETRATION
NTS



D1 WEATHERPROOFING AT CANOPY PENETRATION
NTS



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



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



10/29/25

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FAIRPORT NINE MILE FSU
2051 FAIRPORT NINE MILE RD
PENFIELD, NY 14526

FSR#05767

BUILDING TYPE / SIZE: P14 LE BASE
RELEASE: 25.06
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SHEET
DETAILS

SHEET NUMBER
M-502

ROOFTOP UNIT SCHEDULE - TRANE

MARK	AREA SERVED	MANUFACTURER	MODEL	TOTAL WEIGHT (LB)	HP	SUPPLY AIRFLOW (CFM)	OA (CFM)	ESP (in-wg)	COOLING CAPACITY					HEATING CAPACITY				ELECTRICAL DATA				ACCESSORIES				
									TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	AMBIENT TEMPERATURE (°F)	ENTERING AIR DRY BULB (°F)	ENTERING AIR WET BULB (°F)	COOLING STAGES	EER/IEER	SEER	REFRIGERANT	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING STAGES	THERMAL EFFICIENCY (%)		VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)
RTU-1	KITCHEN	TRANE	YSK300A3	3043	6	8,125	1,765	0.80	274.9	195.3	95	79	67	2	9.8/13.0		R-454B	400	324	2	81	208	3	124	150	1,3-14
RTU-2	MFA	TRANE	YSK150A3	1856	4.6	4,375	850	0.80	148.3	98.9	95	79	68	2	10.8/14		R-454B	250	202	2	81	208	3	73	100	1,3-14
RTU-3	DINING/SERVING	TRANE	YSK180A3	2893	6	5,250	1,275	0.80	189.4	117.8	95	79	69	2	10.8/14		R-454B	400	324	2	81	208	3	85	110	1,3-14
RTU-4	BOH	TRANE	YHK048A3	1287	3	1,400	180	0.80	46.1	29.9	95	77	66	2	12.2	16.4	R-454B	130	105	2	81	208	3	32	45	2-14
RTU-5	PLAY	TRANE	YHK048A3	1357	3	1,300	245	0.80	46.3	29.9	95	77	66	2	12.2	16.4	R-454B	130	105	2	81	208	3	38	50	1,3-14

NOTES
 1. MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
 2. SEE DETAIL 1M-701T FOR SETTING OF CONTROL PARAMETERS BY MC.

ACCESSORIES
 1. DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
 2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
 3. 14" HIGH ROOF CURB.
 4. SEE DETAIL 2M-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. 2" MERV 8 THROW AWAY FILTERS.
 8. HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
 9. FACTORY INSTALLED COIL HAIL GUARD.
 10. HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
 11. FACTORY HIGH FAULT SCCR (65K) AND FACTORY CIRCUIT BREAKER.
 12. FACTORY CONFIGURED PHASE LOSS PROTECTION.
 13. FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
 14. FACTORY PROVIDED FIELD INSTALLED FRESH AIR TEMPERING KIT.
 15. STAINLESS STEEL HEAT EXCHANGER.

HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	EXHAUST CFM	SP @ TAB PORT (in-wg)	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	REMARKS
HOOD-1L	HALTON	KVL-2 IC	1,204	0.13	80 @ 0.30"	BACKSHELF	14"X8"	107"	37"	40"	1
HOOD-1R	HALTON	KVL-2 IC	709	0.13	47 @ 0.30"	BACKSHELF	8"X8"	63"	37"	40"	1
HOOD-2	HALTON	KVL-C IC	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	45"	34"	38"	1
HOOD-3	HALTON	KVL-C IC	701	0.3	30 @ 0.29"	BACKSHELF	8"X8"	42"	34"	38"	1

NOTES
 1. 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. HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEETS MH-1.1, MH-1.2, AND MH-1.3.

AIR DOOR SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	CFM	VELOCITY (FPM)	HEATING (KW)	MOTOR HP	ELECTRICAL DATA				ACCESSORIES
								VOLTAGE (V)	PHASE	MCA (A)	MOCP (A)	
AD-1	DRIVE THRU	POWERED AIRE	CHA-1-48E	1,543	2,338	10	0.75	208	3	42	45	1,2,3,5
AD-2	SERVING	POWERED AIRE	ETA-1-36E	1,310	1,845	10	0.75	208	3	42	45	1,2,3,4,6
AD-3	REAR DOOR	POWERED AIRE	RBT-1-48	3,867	4,218	0	0.75	120	1	10	15	4

NOTES
 1. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

ACCESSORIES
 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 ON M-301.

FAN SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	TOTAL WEIGHT (LB)	FAN CFM	ESP (in-wg)	HP	MOTOR RPM	FAN RPM	ELECTRICAL DATA				ACCESSORIES
										VOLTAGE (V)	PHASE	FLA (A)	MOCP (A)	
CF-1	OUTDOOR CANOPY	TPI	U-18-TE-HD	20	1,900	0.01	0.1	1,625	120	1	1.1	20	18	
EF-1	HOOD#1	HALTON	KEFB-14-CFA	393	1,913	0.75	0.75		1620	115	1	25	1,2,3,4,5,6,7,8,9	
EF-2	HOOD#2 & HOOD#3	HALTON	KEFB-14-CFA	393	1,402	0.95	0.75		1410	115	1	25	1,2,3,4,5,6,7,8,9	
EF-3	RESTROOMS	ACCUREX	XRED-095-VG	49	360	0.375	0.167	1,725		115	1	2.2	20	
TF-1	TECH CLOSET	GREENHECK	SP-A510-VG	33	450	0.3	0.127	1,144		120	1	2.5	20	
TF-2	VESTIBULE	ACCUREX	XID-7-VG	41	350	0.3	0.067	1,725		115	1	1.3	20	

NOTES
 1. GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
 2. FANS SUPPLIED BY HALTON. PURCHASED BY OWNER. WIRING DIAGRAMS PROVIDED BY HALTON UNLESS NOTED OTHERWISE.
 3. INSTALL FANS "CF-1" AND "TF-2" PER MANUFACTURER'S RECOMMENDATIONS.
 4. FAN "CF-1" SUPPLIED BY TOM BARROW OR POWERS OF ARKANSAS FOR THE SOUTHWEST REGION.
 5. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034 FOR G2 DRIP GUARD.
 6. U.L. 705 LISTED AND LABELED FOR RESTUARANT APPLICATIONS.

ACCESSORIES
 1. FACTORY INSTALLED PREWIRED DISCONNECT SWITCH.
 2. 19" HIGH ROOF CURB.
 3. INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD.
 4. FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
 5. FACTORY DRAIN CONNECTION.
 6. FACTORY BOLTED ACCESS DOOR ON SCROLL.
 7. FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE, SPARE BELT, AND BELT TENSIONER.
 8. FACTORY INSTALLED OUTLET WITH QUICK RELEASE, HINGED ACCESS, AND GRAVITY BACKDRAFT DAMPER.
 9. INTEGRAL THERMAL OVERLOAD.
 10. BIRDSCREEN.
 11. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 5/M-501.
 12. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
 13. 12" HIGH CURB.
 14. FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
 15. PROVIDE NEMA 1 PREWIRED DISCONNECT.
 16. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
 17. PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F.
 18. PROVIDE WITH ON/OFF SWITCH.

HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	HEATING INPUT		MOUNTING TYPE	ELECTRICAL DATA				ACCESSORIES	
			INPUT (KW)	INPUT (MBH)		VOLTAGE (V)	PHASE	CONTROL VOLTAGE (V)	FLA (A)		MOCP (A)
IRH-1	BROMIC	BH0420035	6.00		WALL	208	1		28.9	40	1,2
IRH-2	SPACE-RAY	WB50	50.0		CEILING	120	1	24		20	1,3,4,5
IRH-3	SPACE-RAY	WB50	50.0		CEILING	120	1	24		20	1,3,4,5
IRH-4	SPACE-RAY	WB50	50.0		CEILING	120	1	24		20	1,3,4,5,6
IRH-5	SPACE-RAY	WB50	50.0		CEILING	120	1	24		20	1,3,4,5,6
IRH-6	SPACE-RAY	WB50	50.0		CEILING	120	1	24		20	1,3,4,5,6
IRH-7	SPACE-RAY	WB50	50.0		CEILING	120	1	24		20	1,3,4,5,6

NOTES
 1. NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.
 2. CONFIRM HEATER QUANTITY PRIOR TO ORDERING.
 3. HEATERS ARE POWERED OF SUNCOAST PANEL VIA INTEGRAL 240VA TRANSFORMER.

ACCESSORIES
 1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
 2. PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
 3. PROVIDE WITH HEAT SHIELD.
 4. PROVIDE WITH HI/LOW SWITCH.
 5. MC SHALL FURNISH A 2 HOUR ROTARY TIMER SWITCH FOR EACH HEATER. COORDINATE INSTALLATION WITH EC.
 6. HEATER IS NOTED FOR FUTURE INSTALLATION. CONFIRM IF HEATER IS TO BE ORDERED FOR INITIAL CONSTRUCTION PRIOR TO BID

AIR DEVICE SCHEDULE

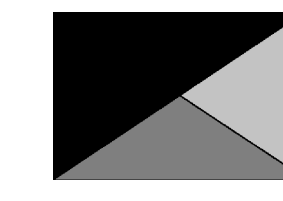
MARK	LOCATION	DESCRIPTION	NECK SIZE	FACE SIZE	FRAME TYPE	ACCESSORIES
E1	RESTROOMS	PRICE MODEL APDDR ALUMINUM PERFORATED FACE EXHAUST AIR GRILLE.	12"x12"	16"x16"	LAY-IN	1,3,5,10
R1	KITCHE/MFA/BOH	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	VARIES	24"x24"	LAY-IN	1,5
R2	PLAY	PRICE MODEL 60 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	30"x14"	32.5"x16.5"	SURFACE	1,9
R3	DINING	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	18"	24"x24"	LAY-IN	1,5,10
S1	RESTROOMS	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	6"	12"x12"	LAY-IN	1,2,4,6,10
S2	VESTIBULE	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	10"	16"x16"	LAY-IN	1,2,4,6,10
S3	DINING / KITCHEN / MFA/BOH	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	VARIES	24"x24"	LAY-IN	1,2,6
S4	DINING	PRICE MODEL TBDI2150 T-BAR SUPPLY DIFFUSERS	12"	48"x5"	LAY-IN	1,8
S5	OFFICE	PROCE MODEL VARITHERM PLAQUE DIFFUSER	6"	24"x24"	LAY-IN	1,6,7
S6	TEAM MEMBERS	PROCE MODEL VARITHERM PLAQUE DIFFUSER	8"	24"x24"	LAY-IN	1,6,7
S7	PLAY	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	14"x14"	16.5"x16.5"	SURFACE	1,9
T1	VESTIBULE / TEAM ROOM	PRICE MODEL 80 EGGCRATE TRANSFER AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	12"	24"x14"	LAY-IN	1,5,6
T2	SERVING	PRICE MODEL 80FF STEEL FILTER RETURN EGGCRATE TRANSFER AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	24"x24"	24"x24"	LAY-IN	1,5,6
T3	TECH CLOSET	PRICE MODEL 60 TB AIR FOIL RETURN GRILLE	12"	24"x14"	LAY-IN	1,5,6

NOTES
 1. NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

ACCESSORIES
 1. STANDARD OFF WHITE FINISH.
 2. PROVIDE 4-WAY BLOW UNLESS OTHERWISE NOTED. REFER TO M-101L(T) FOR THROW.
 3. PROVIDE MODEL VCR7 NECK DAMPER.
 4. PROVIDE BACKPAN, MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
 5. PROVIDE SQUARE TO ROUND ADAPTOR.
 6. FACTORY INSULATED R-6 BACKPAN.
 7. PROVIDE RELIEF COLLAR ACCESSORY FOR VAV DIFFUSER.
 8. PROVIDE 2 SLOTS, CENTER NOTCH, AND ONE WAY DISCHARGE.
 9. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL E1/M-501.
 10. PROVIDE ALUMINUM PLASTER FRAME.



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



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



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 2051 FAIRPORT NINE MILE RD
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FSR#05767

BUILDING TYPE / SIZE: P14 LE BASE
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SHEET
 EQUIPMENT SCHEDULES (TRANE)

SHEET NUMBER
M-601

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 30-LE-05767-A-601-EQUIPMENT SCHEDULES (TRANE)

VENTILATION SCHEDULE

General			Ventilation											Exhaust						Served by		
Room #	Room Name	Area Az ft2	People			Area				Breathing Zone Outdoor Airflow CFM	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			Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/Rt2							Total Required Exhaust CFM	Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM		
1	Kitchen	878	20	18	7.5	135	0.12	105	240	0.8	301	7,325	0.04	1,591	0.70	615	-	-	-	3,315	RTU-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	174	-	-	-	-	-	-	RTU-1	-
Total Area 1,006						Total Vbz 278				Total Supply Airflow 8,125				1,765		Actual Outdoor Airflow						
						Diversity (D) 1.00				Maximum Zp 0.06												
						Uncorrected Outdoor Air Intake (Vou) 278				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	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			Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/Rt2							Total Required Exhaust CFM	Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM		
1	Meal Fulfillment Area	425	15	7	7.5	52.5	0.18	77	129	0.8	162	4,375	0.04	850	-	-	-	-	-	-	RTU-2	-
Total Area 425						Total Vbz 129				Total Supply Airflow 4,375				850		Actual Outdoor Airflow						
						Diversity (D) 1.00				Maximum Zp 0.03												
						Uncorrected Outdoor Air Intake (Vou) 129				System Ventilation Efficiency (Ev) 1.00												
						Required Outdoor Air Intake (CFM) 129																

VENTILATION SCHEDULE

General			Ventilation											Exhaust						Served by		
Room #	Room Name	Area Az ft2	People			Area				Breathing Zone Outdoor Airflow CFM	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			Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/Rt2							Total Required Exhaust CFM	Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM		
1	Dining	1,077	100	108	7.5	810	0.18	194	1,004	0.8	1,255	4,345	0.29	1,055	-	-	-	-	-	-	RTU-3	-
2	Serving	542	15	8	7.5	60	0.12	65	125	0.8	156	655	0.24	160	-	-	-	-	-	-	RTU-3	-
3	Men's RR	161	-	-	-	-	-	-	-	0.8	-	100	-	24	-	-	Continuous	50	150	180	RTU-3	EF-3
4	Women's RR	170	-	-	-	-	-	-	-	0.8	-	100	-	24	-	-	Continuous	50	150	180	RTU-3	EF-3
5	RR Vestibule	33	-	-	-	-	0.06	2	2	0.8	3	50	0.06	12	-	-	-	-	-	-	RTU-3	-
Total Area 1,983						Total Vbz 1,131				Total Supply Airflow 5,250				1,275		Actual Outdoor Airflow						
						Diversity (D) 0.85				Maximum Zp 0.29												
						Uncorrected Outdoor Air Intake (Vou) 1,001				System Ventilation Efficiency (Ev) 0.80												
						Required Outdoor Air Intake (CFM) 1,251																

VENTILATION SCHEDULE

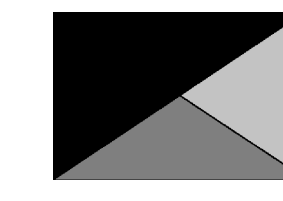
General			Ventilation											Exhaust						Served by		
Room #	Room Name	Area Az ft2	People			Area				Breathing Zone Outdoor Airflow CFM	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow CFM Voz	Primary Zone Airflow CFM Vpz	Primary Outdoor Air Fraction Zp	Actual Outdoor Airflow CFM	Area		Toilet			Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/Rt2							Total Required Exhaust CFM	Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM		
1	Team Member Room	102	50	6	5	30	0.06	6	36	0.8	46	200	0.23	26	-	-	-	-	-	-	RTU-4	-
2	Service	682	-	-	-	-	0.12	82	82	0.8	103	890	0.11	114	-	-	-	-	-	-	RTU-4	-
3	Riser	38	-	-	-	-	0.12	5	5	0.8	6	200	0.03	26	-	-	-	-	-	-	RTU-4	-
4	Office	43	5	1	5	5	0.06	3	8	0.8	10	110	0.09	14	-	-	-	-	-	-	RTU-4	-
Total Area 865						Total Vbz 130				Total Supply Airflow 1,400				180		Actual Outdoor Airflow						
						Diversity (D) 1.00				Maximum Zp 0.23												
						Uncorrected Outdoor Air Intake (Vou) 130				System Ventilation Efficiency (Ev) 0.90												
						Required Outdoor Air Intake (CFM) 144																

VENTILATION SCHEDULE

General			Ventilation											Exhaust						Served by		
Room #	Room Name	Area Az ft2	People			Area				Breathing Zone Outdoor Airflow CFM	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			Supply	Exhaust
			Occupant Density People/1,000 ft2	Occupants Pz	Outdoor Airflow Rate CFM/Person Rp	Outdoor Airflow CFM Pz x Rp	Outdoor Airflow Rate CFM/Ra	Outdoor Airflow CFM Az x Ra	Required Exhaust Rate CFM/Rt2							Total Required Exhaust CFM	Exhaust Control/Operation	Fixture Exhaust Rate CFM/Fixture	Required Fixture Exhaust CFM	Actual Exhaust CFM		
1	Play	268	7	2	20	40	0.18	48	88	0.8	110	1,300	0.08	245	-	-	-	-	-	-	RTU-5	-
Total Area 268						Total Vbz 88				Total Supply Airflow 1,300				245		Actual Outdoor Airflow						
						Diversity (D) 1.00				Maximum Zp 0.08												
						Uncorrected Outdoor Air Intake (Vou) 88				System Ventilation Efficiency (Ev) 1.00												
						Required Outdoor Air Intake (CFM) 88																



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



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



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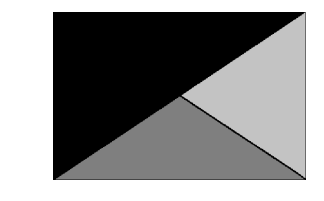
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SHEET
VENTILATION SCHEDULES

SHEET NUMBER
M-602



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



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



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SHEET CONTROL WIRING DIAGRAMS (TRANE)

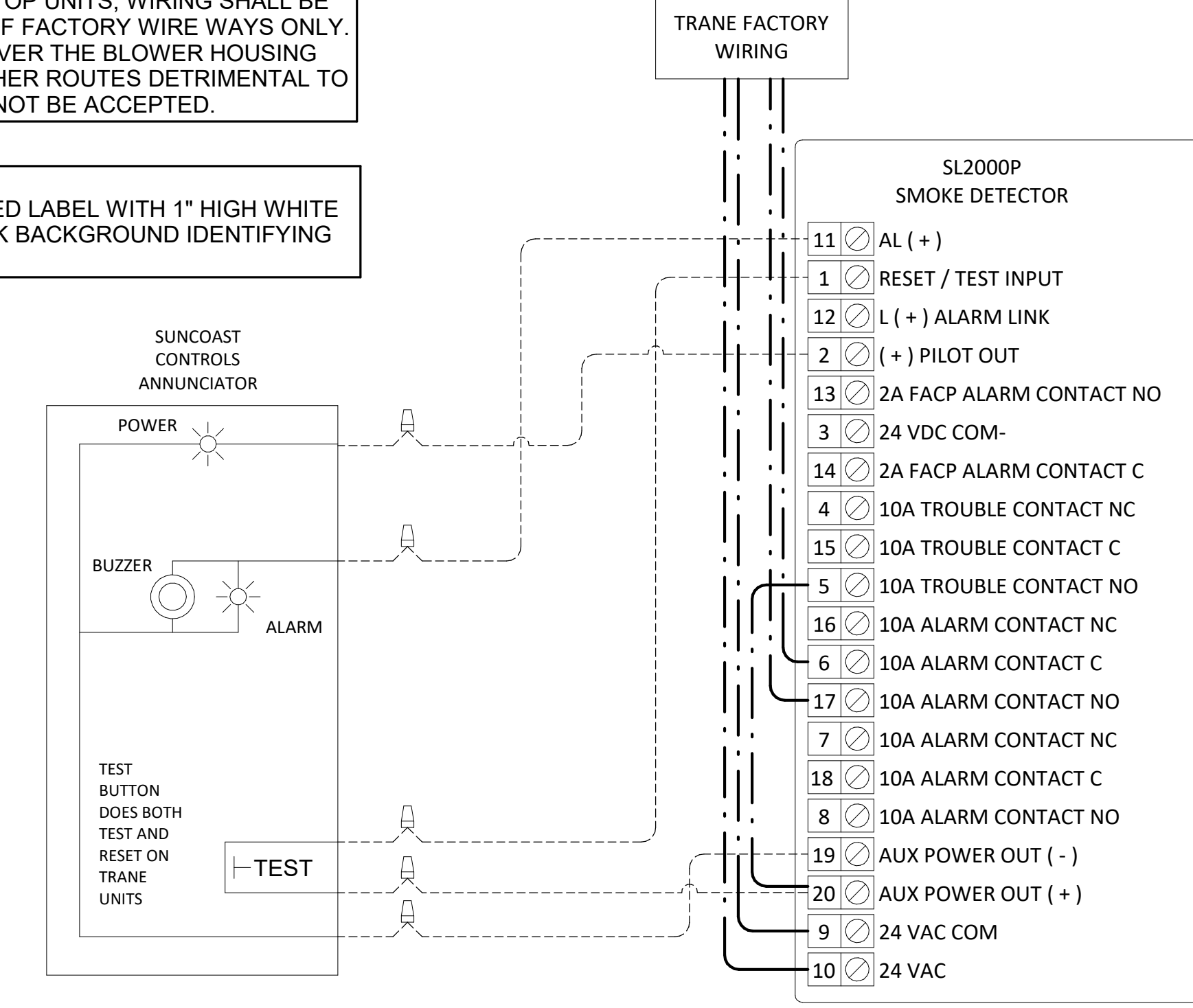
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LEGEND

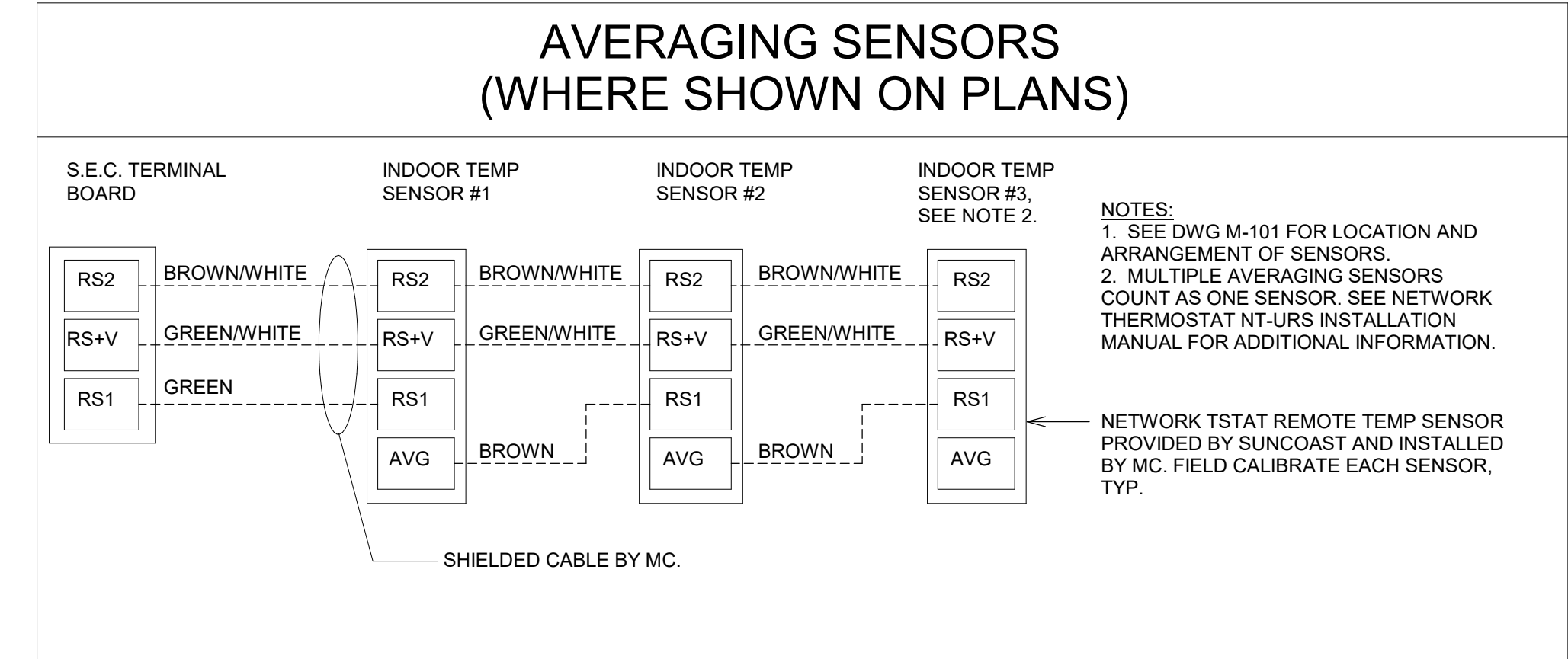
-----	18 AWG MIN WIRING BY MECH CONTRACTOR
————	FACTORY ANNUNCIATOR DETECTOR WIRING
---	FACTORY TRANE WIRING

FIELD INSTALLED WIRING:
WITHIN THE ROOFTOP UNITS, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIREWAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO WIRING LIFE WILL NOT BE ACCEPTED.

LABELING:
PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING (TRANE)
NTS



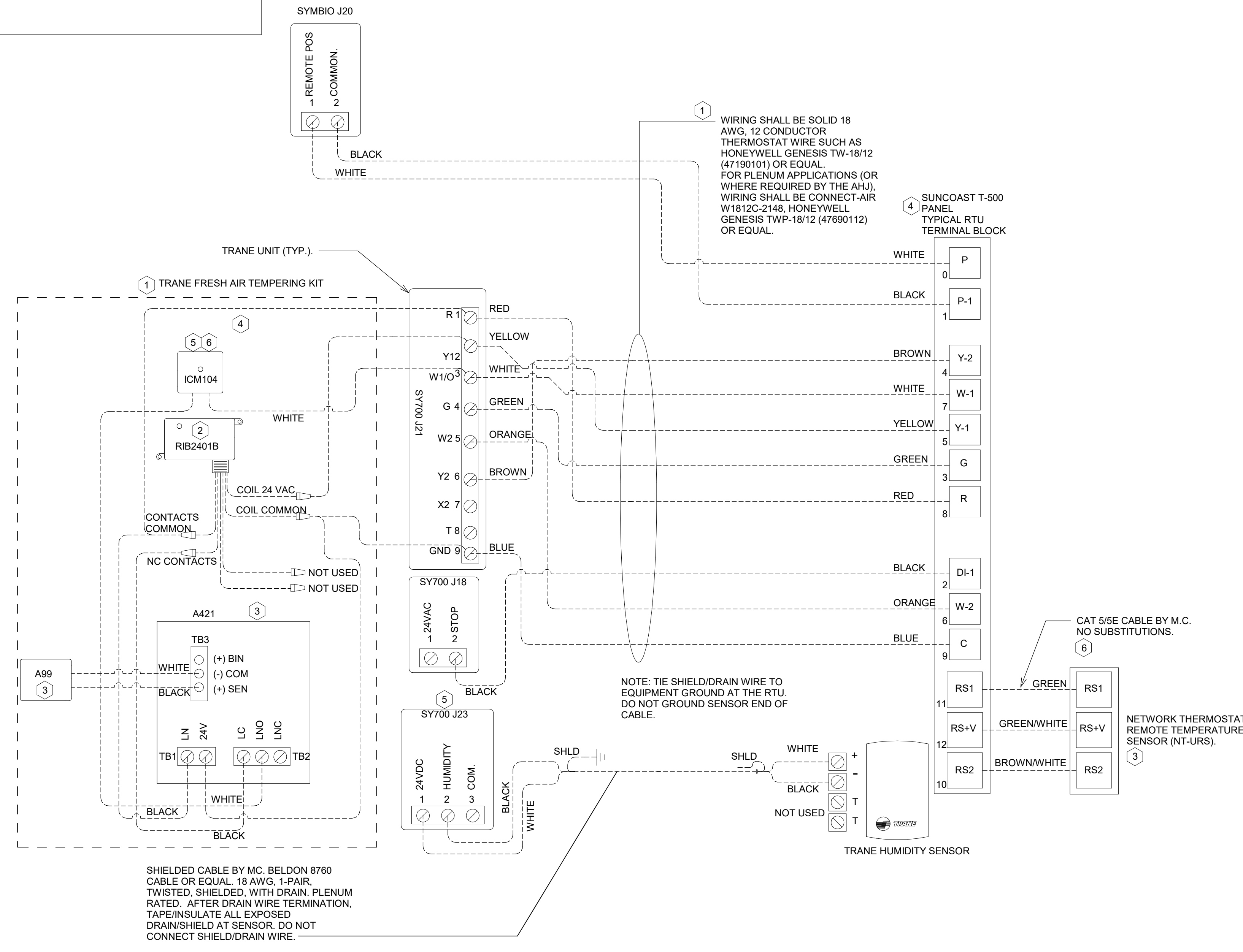
- KEYED NOTES:**
1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
 2. WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE; BELDEN 8760 OR EQUAL.
 3. NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR. SEAL CABLE PENETRATION AT ALL WALL LOCATIONS.
 4. FACTORY WIRING IN SUNCOAST T-500 PANEL NOT SHOWN FOR CLARITY. SEE SUNCOAST WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
 5. SY700 INTERFACE TO SET RELATIVE HUMIDITY. SET TO 60%.
 6. CAT 5/6E CABLE BY M.C. NO SUBSTITUTIONS.

- NOTES:**
1. PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #6824 TELEPHONE NUMBER 800-243-8624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER FOR RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.
 2. SEE DETAILS IN THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
 3. SET ALL THERMOSTATS TO AUTO CHANGEOVER.
 4. PROVIDE PLASTIC ENGRAVABLE AT ALL SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND (E.G. "RTU-2 HUMIDITY SENSOR" OR "RTU-2 TEMP SENSOR"). PLACE LABELS ON WALL DIRECTLY ABOVE OR BELOW THE SENSOR. DO NOT APPLY LABEL DIRECTLY TO DEVICE.

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, DEENERGIZED WHEN ANSUL FIR 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.

- FRESH AIR TEMPERING KEYED NOTES:**
1. INSTALL FRESH AIR TEMPERING KIT AS RECOMMENDED BY TRANE.
 2. RIB2401B SPDT RELAY FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
 3. JCI A421 TEMPERATURE CONTROLLER FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN RTU CONTROL CABINET. CONTRACTOR SHALL INSTALL TRANE FURNISHED JCI A99 SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT WITH TEB601-1 SENSOR DUCT MOUNTING PLATE FURNISHED BY TRANE. DO NOT RUN WIRING INSIDE DUCTWORK. SET A421 CONTROLLER PARAMETERS TO THE FOLLOWING:
• RELAY ON TEMPERATURE: 80°F
• RELAY OFF TEMPERATURE: 80°F
 4. 18 AWG MIN. LOW VOLTAGE WIRING BY MC.
 5. ICM104 TIME DELAY RELAY FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF ROOFTOP UNIT.
 6. SET TIME DELAY RELAY (ICM104) TO 15 MINUTES.

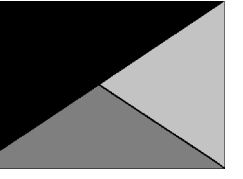


2 ROOFTOP UNIT CONTROL WIRING (TRANE)
NTS

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



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



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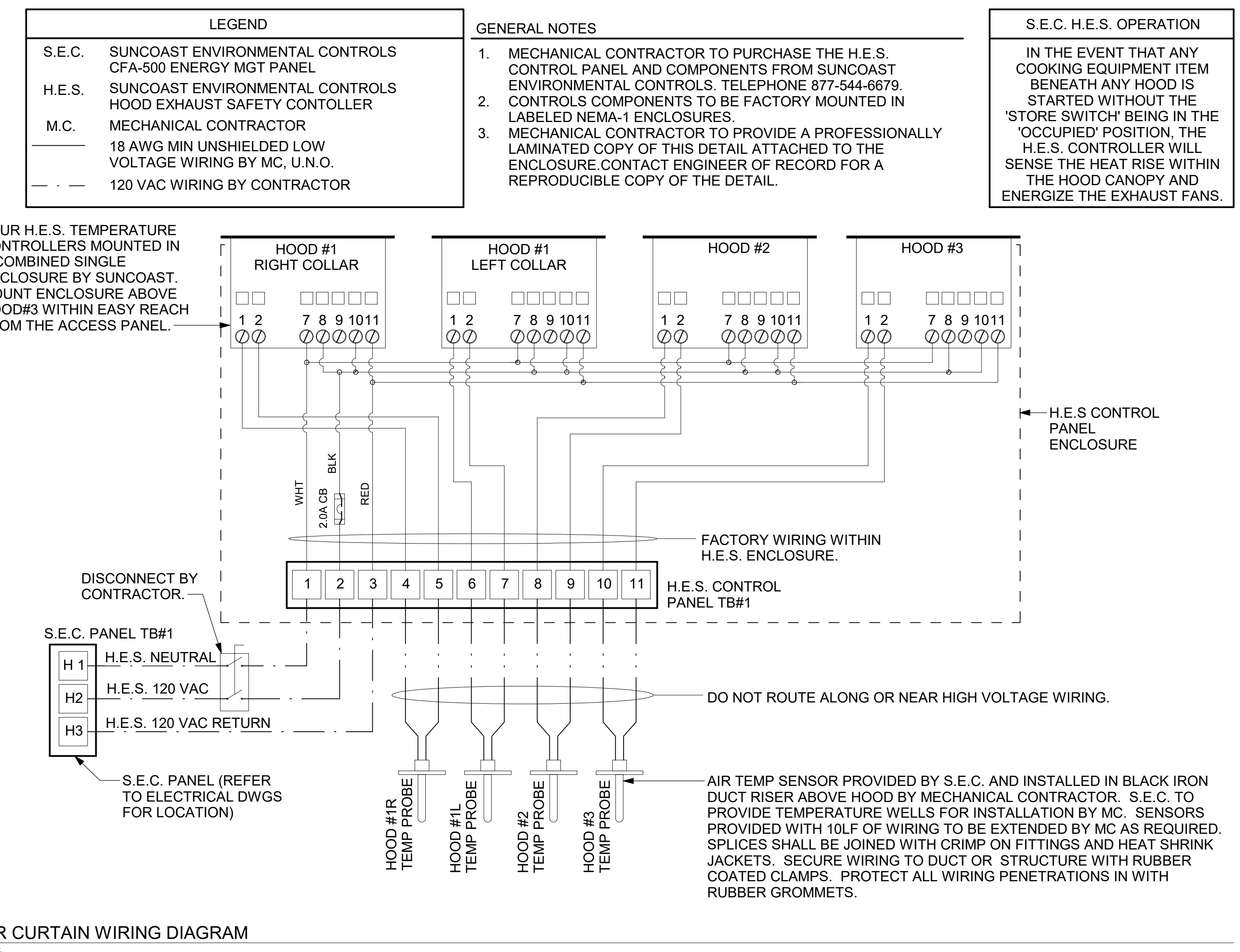
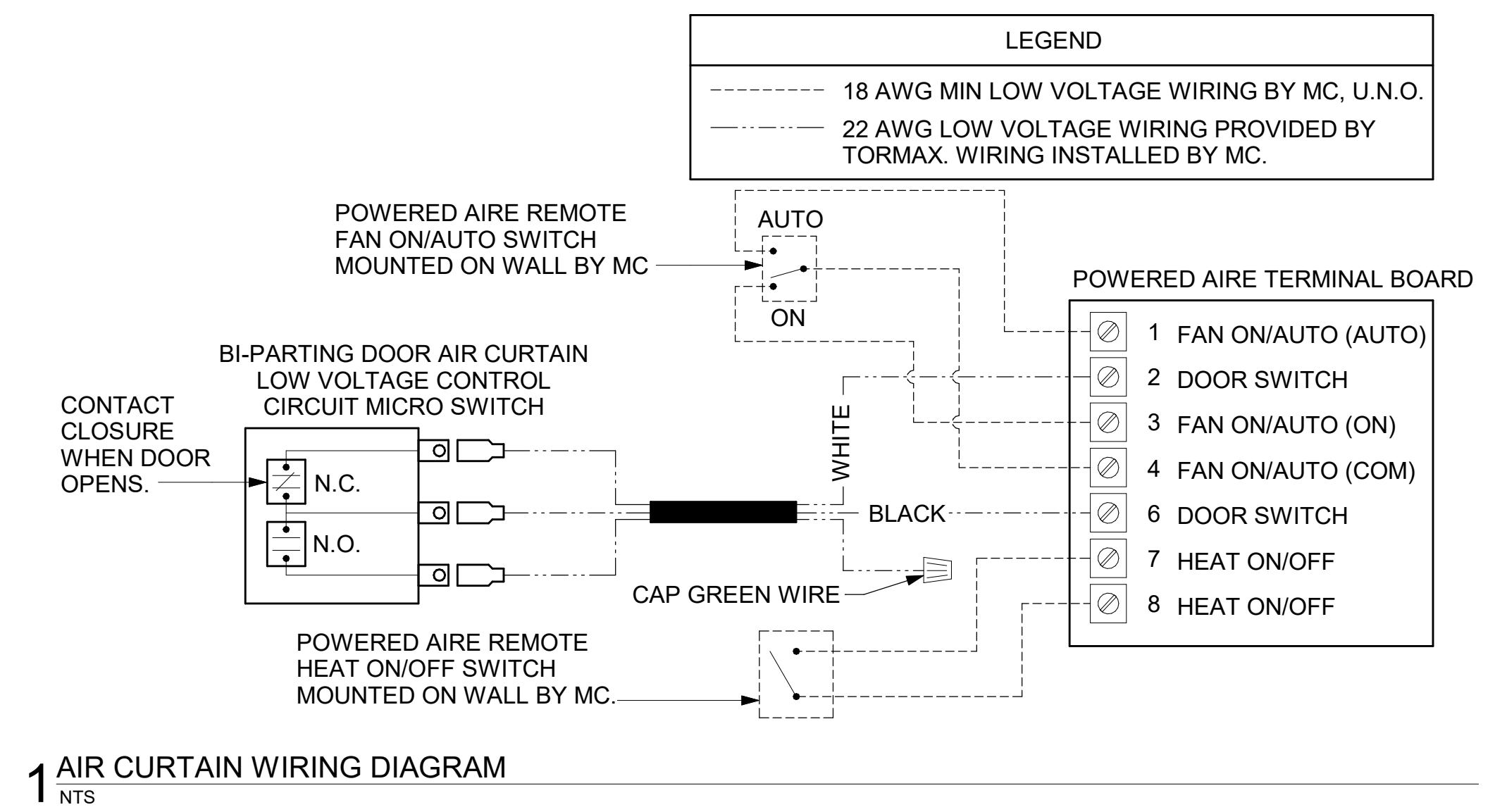
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SHEET CONTROL WIRING DIAGRAMS

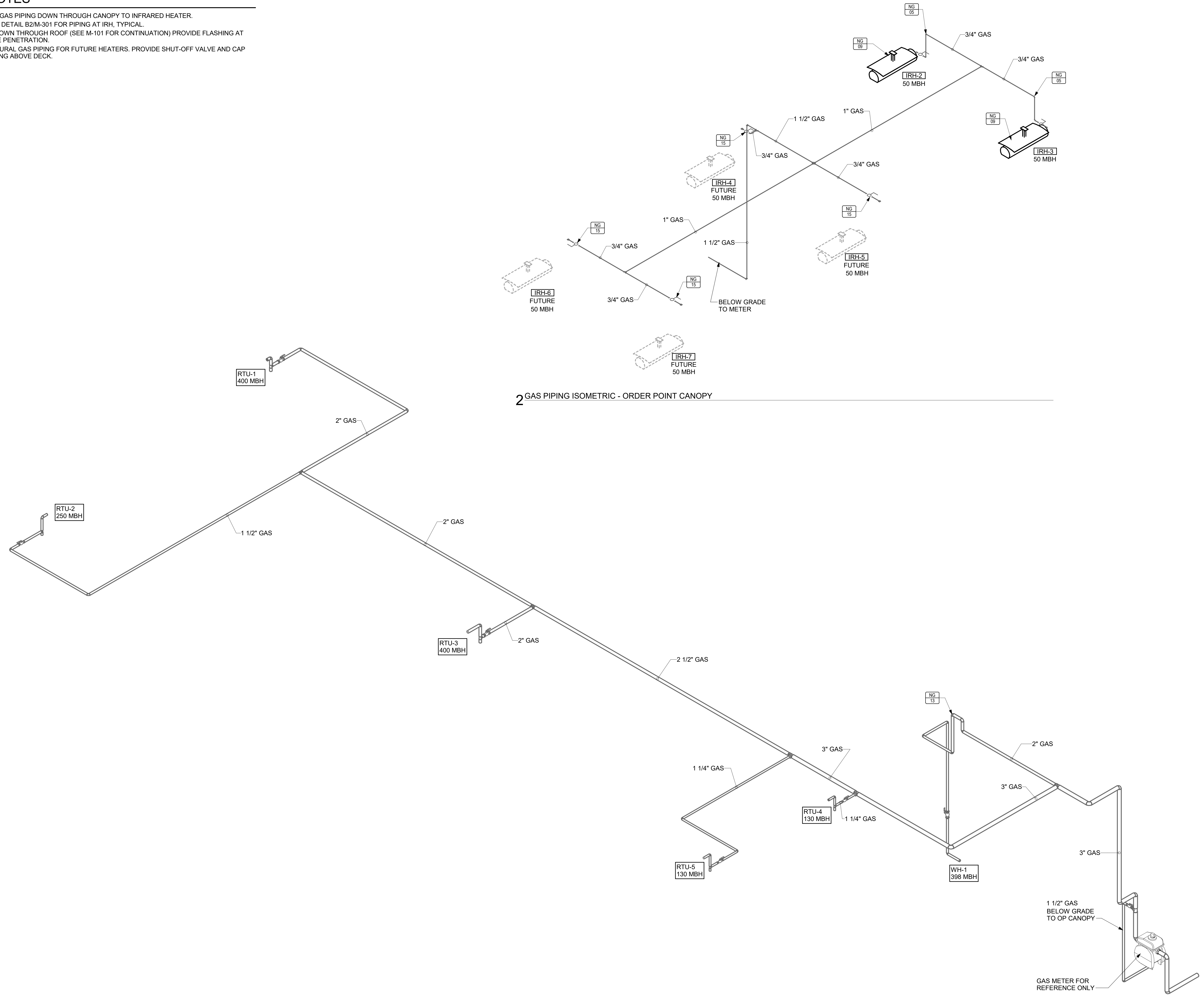
SHEET NUMBER

M-702



KEY NOTES

- NG 05 3/4" GAS PIPING DOWN THROUGH CANOPY TO INFRARED HEATER.
- NG 09 SEE DETAIL B2/M-301 FOR PIPING AT IRH, TYPICAL.
- NG 13 2" DOWN THROUGH ROOF (SEE M-101 FOR CONTINUATION) PROVIDE FLASHING AT PIPE PENETRATION.
- NG 15 NATURAL GAS PIPING FOR FUTURE HEATERS. PROVIDE SHUT-OFF VALVE AND CAPPING ABOVE DECK.



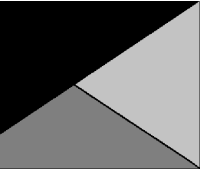
1 GAS PIPING ISOMETRIC (TRANE)

2 GAS PIPING ISOMETRIC - ORDER POINT CANOPY

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5200 Buffington Road
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Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203



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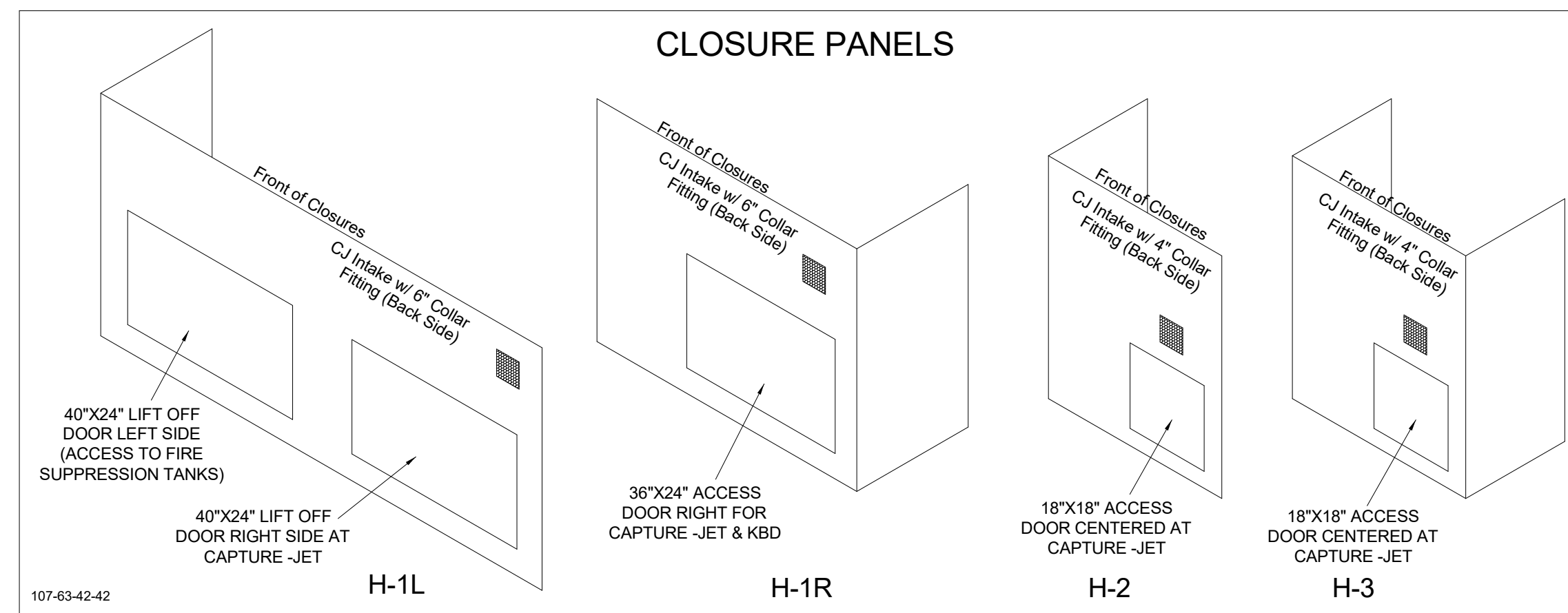
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SHEET
GAS PIPING ISOMETRIC (TRANE)

SHEET NUMBER
M-901

FOR REFERENCE ONLY

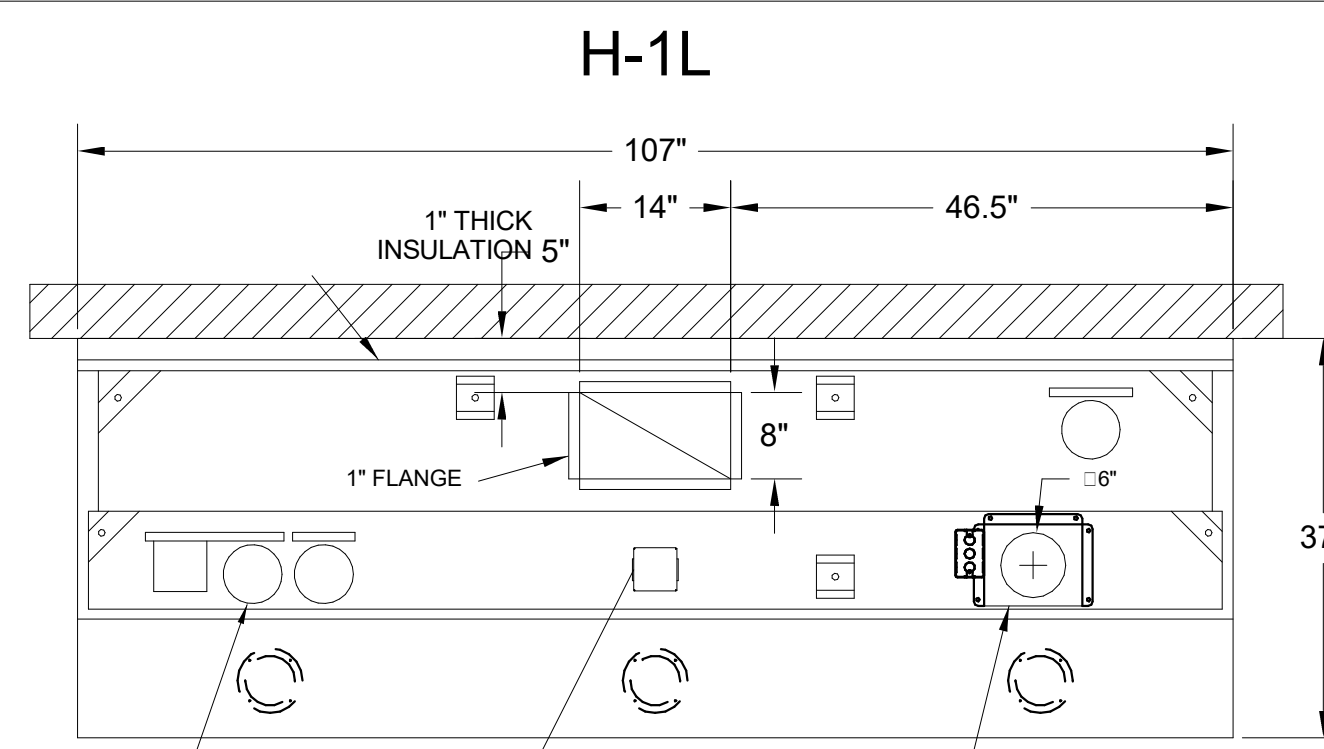
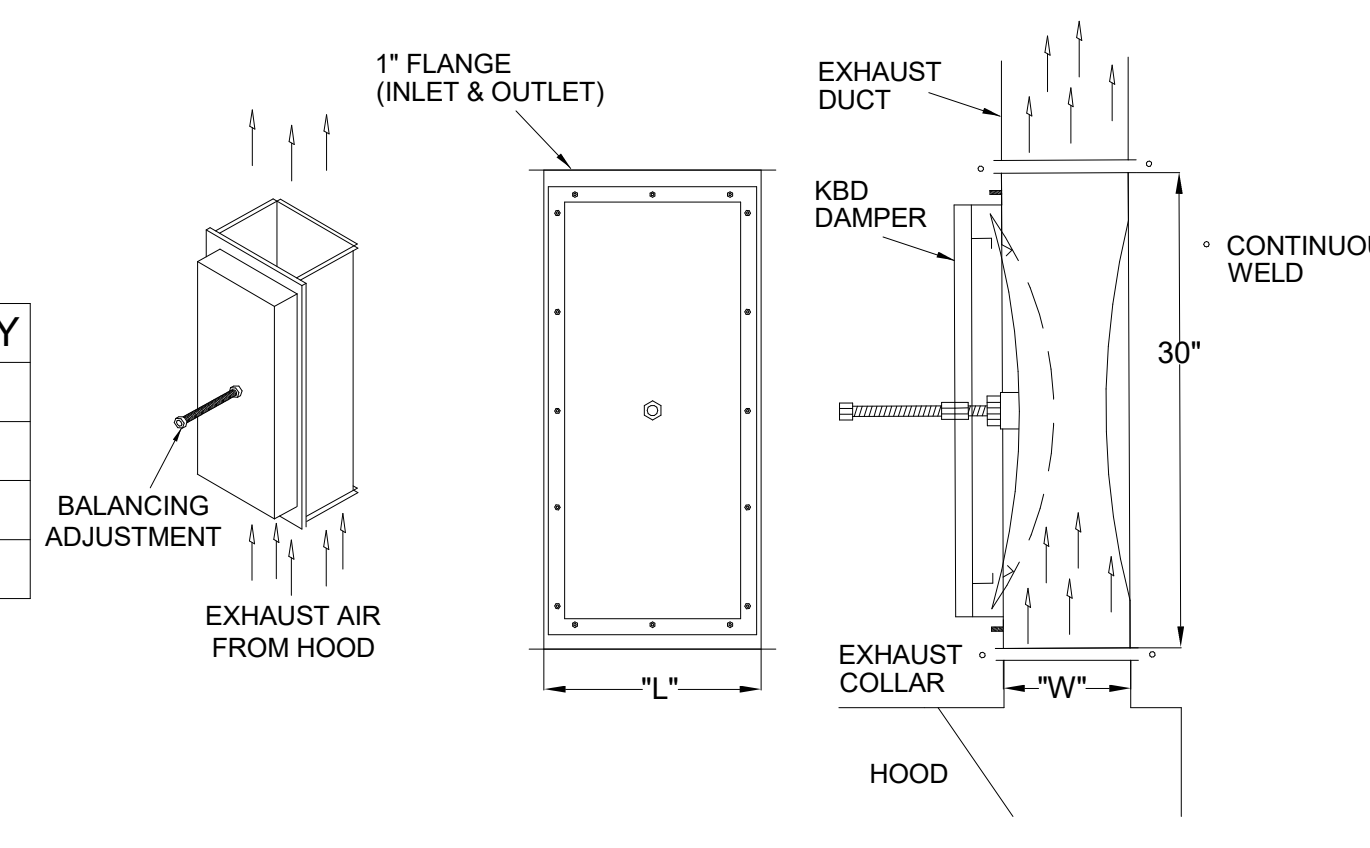
HOOD MODEL	HOOD NUMBER	QTY	EXHAUST COLLAR			EXHAUST AIR INFORMATION			CAPTURE AIR INFORMATION		S.S. KSA FILTERS		CEILING CLOSURES			KBD DAMPER	K FACTOR (CFM = K FACTOR * √DP)	MATERIAL	
			LENGTH	WIDTH	CFM	TAB	SP	CFM	SP	FULL	HALF	LED LIGHTS	QTY	CLOSURE HEIGHT	CEILING HEIGHT				HOOD WEIGHT
KVL-2-IC	H-1L	1	14"	8"	1204	0.13"	0.22"	80	0.30"	5	-	3	2	49"	122"	669 LBS	*	3369	ALL 18 GA 430 S.S.
KVL-2-IC	H-1R	1	8"	8"	709	0.13"	0.23"	47	0.30"	3	-	2	2			394 LBS	*	1971	
KVL-C-IC	H-2	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	2	245 LBS	*	1291			
KVL-C-IC	H-3	1	8"	8"	701	0.30"	0.39"	30	0.29"	2	-	1	3	245 LBS	*	1291			



MODEL:KBD
CALIBRATED KBDs
KITCHEN BALANCING DAMPER
EXHAUST VOLUME DAMPER

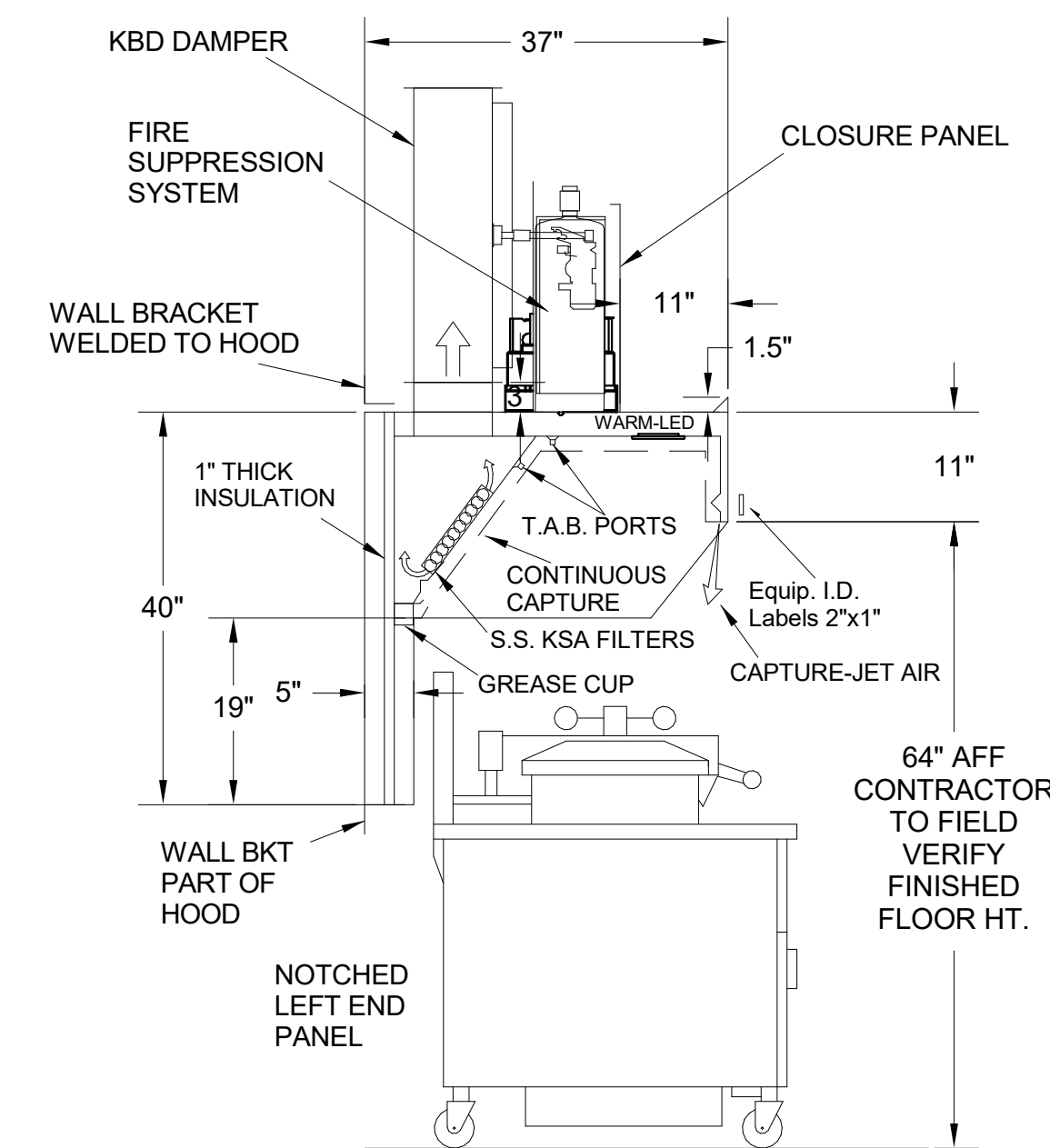
TAG	"L"	"W"	QUANTITY
H-1L	14"	8"	1
H-1R	8"	8"	1
H-2	8"	8"	1
H-3	8"	8"	1

MATERIAL: FRAME - 16GA CONT.
GALV. ADJUSTABLE PANEL 18GA S.S.



FIRE SUPPRESSION COMPONENTS
120/1 INCOMING LIGHT & CAPTURE JET FAN POWER
INTERNAL CAPTURE-JET FAN ASSEMBLY

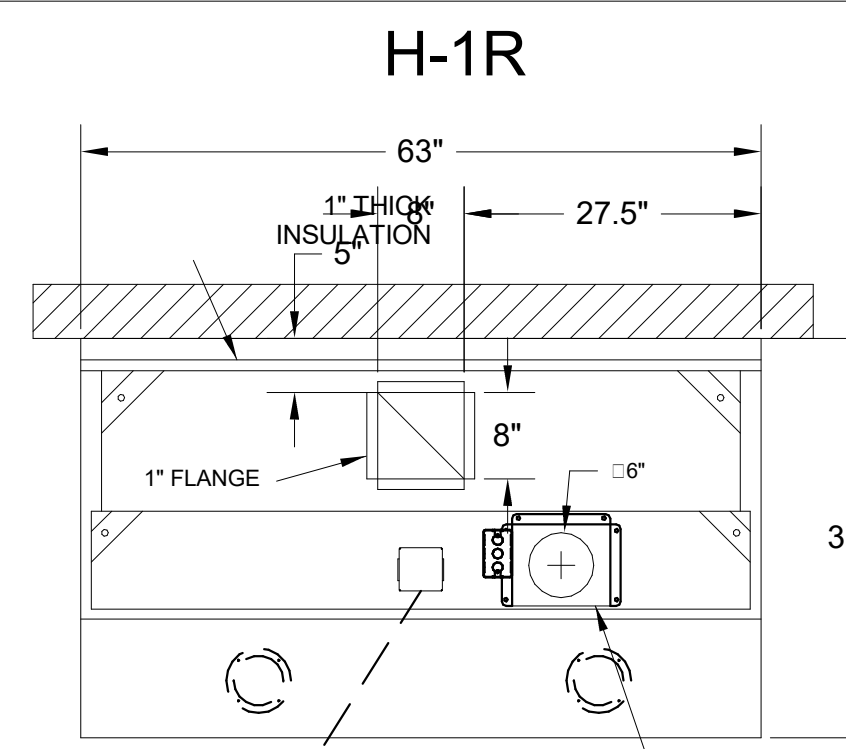
PLAN VIEW



H-1L SECTION VIEW

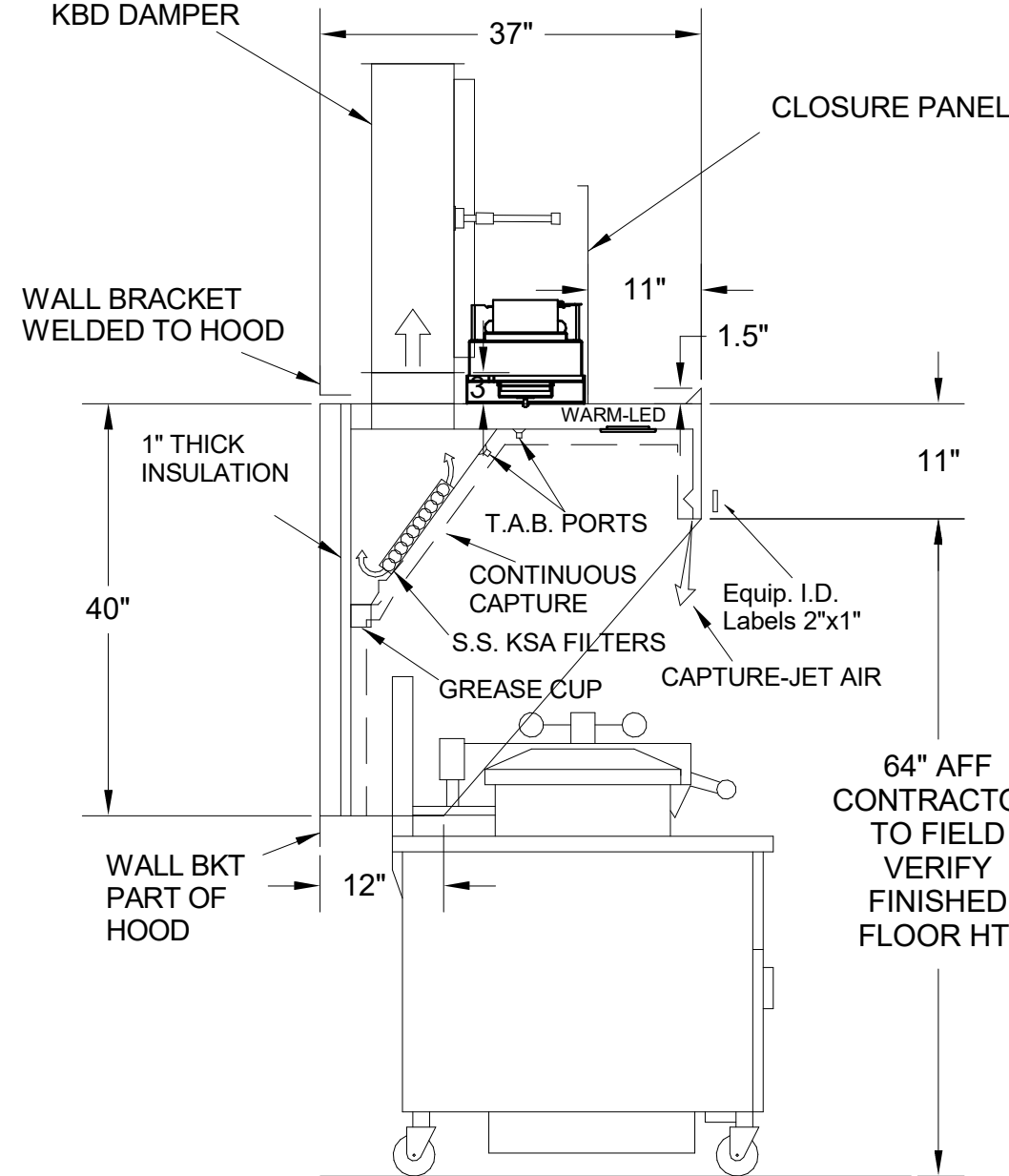
- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 40"x24" LIFT OUT DOOR LEFT SIDE (ACCESS TO FIRE SUPPRESSION)
- 40"x24" LIFT DOOR RIGHT SIDE AT CAPTURE-JET WITH FRONT CJ INTAKE
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- NOTCHED LEFT END PANEL
- GREASE CUP RIGHT END
- AMEREX WEIGHT = 264 LBS

Halton
FACTORY CONTROLLED BY SERIAL NO. APPROVED BY DATE
MODEL NO. SERIAL NO. ITEM NO.
REVISIONS
REVISION NO. DATE DESCRIPTION



120/1 INCOMING LIGHT & CAPTURE JET FAN POWER
INTERNAL CAPTURE-JET FAN ASSEMBLY

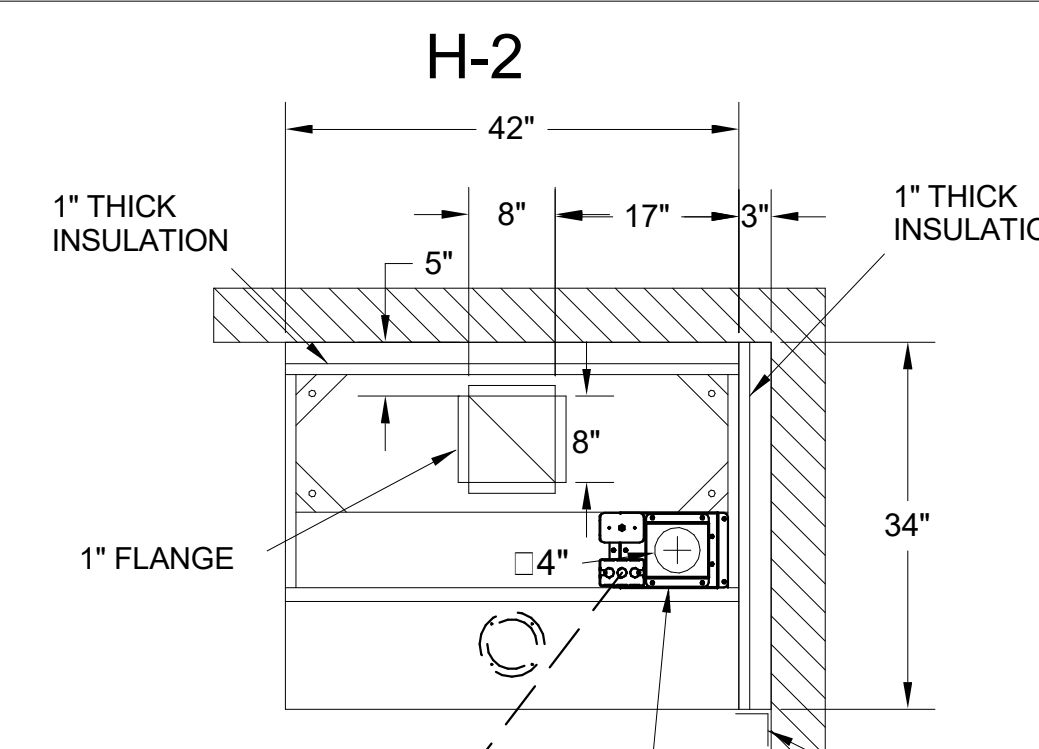
PLAN VIEW



H-1R SECTION VIEW

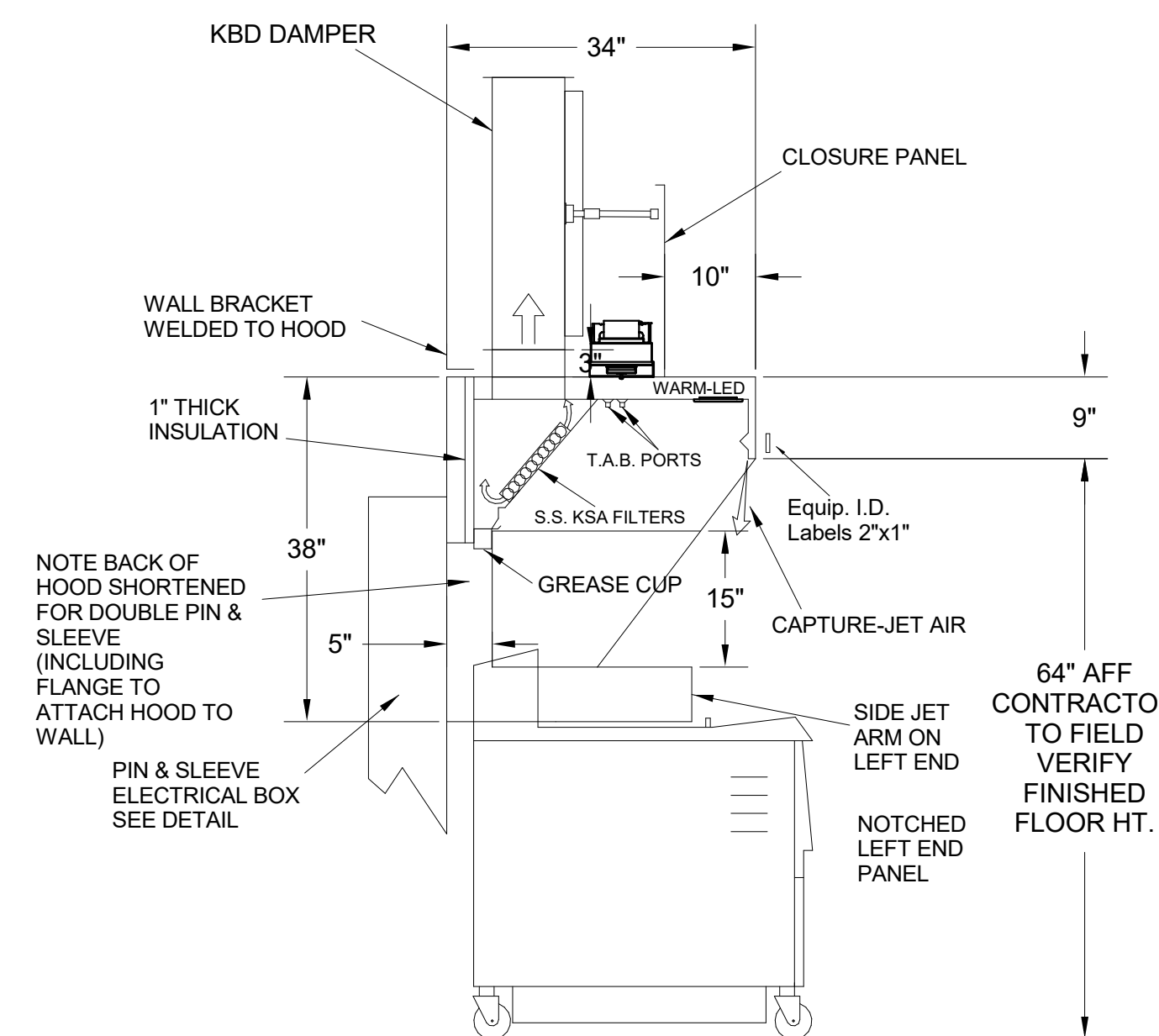
- CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH 36"x24" ACCESS DOOR FOR ACCESS TO CAPTURE-JET
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END

Halton
FACTORY CONTROLLED BY SERIAL NO. APPROVED BY DATE
MODEL NO. SERIAL NO. ITEM NO.
REVISIONS
REVISION NO. DATE DESCRIPTION



120/1 INCOMING LIGHT & CAPTURE JET FAN POWER
INTERNAL CAPTURE-JET FAN ASSEMBLY

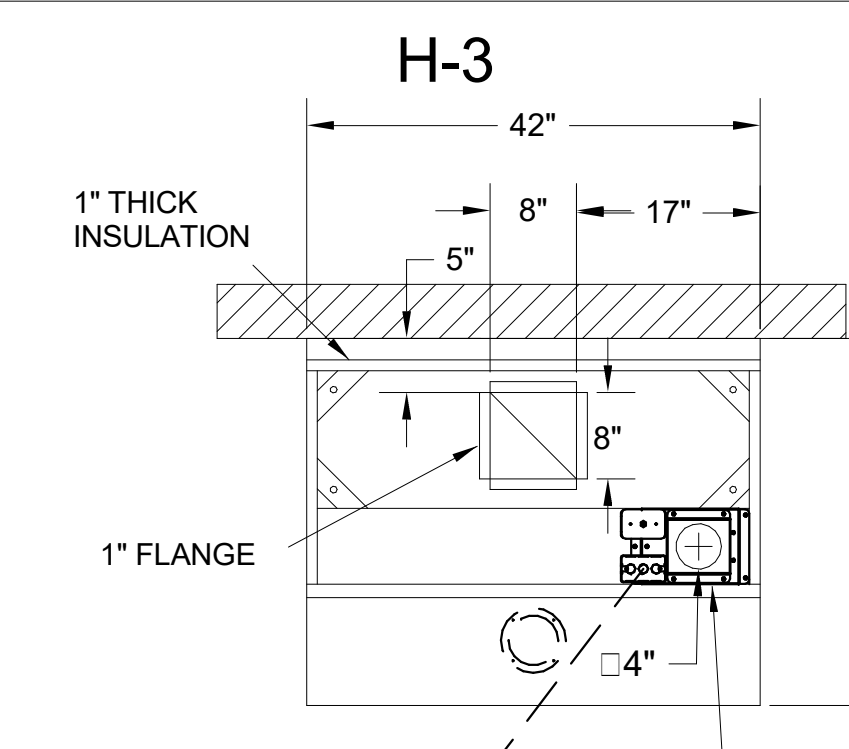
PLAN VIEW



H-2 SECTION VIEW

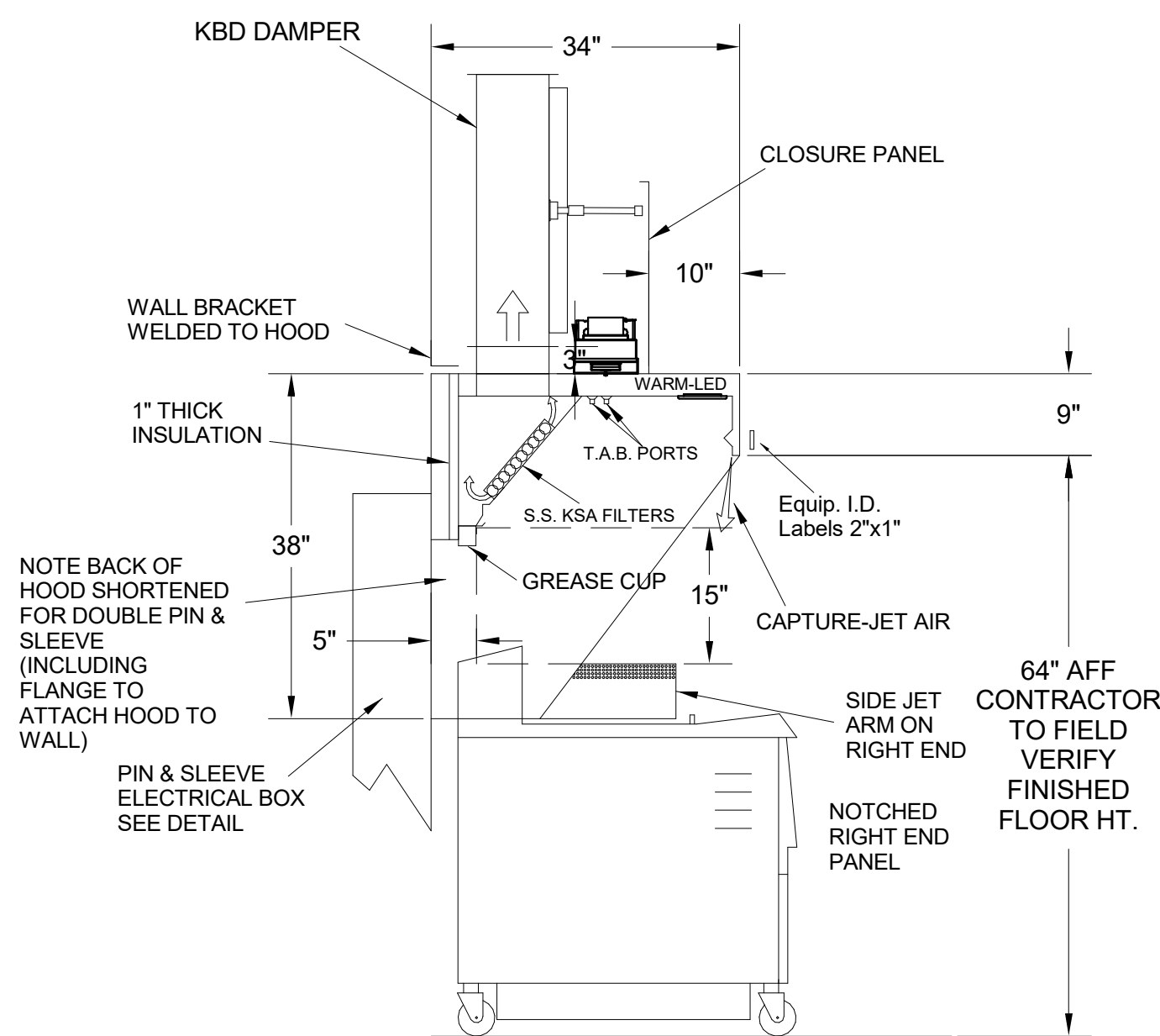
- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED LEFT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3"x3" TRIM STRIP FOR STANDOFF ON RIGHT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END

Halton
FACTORY CONTROLLED BY SERIAL NO. APPROVED BY DATE
MODEL NO. SERIAL NO. ITEM NO.
REVISIONS
REVISION NO. DATE DESCRIPTION



120/1 INCOMING LIGHT & CAPTURE JET FAN POWER
INTERNAL CAPTURE-JET FAN ASSEMBLY

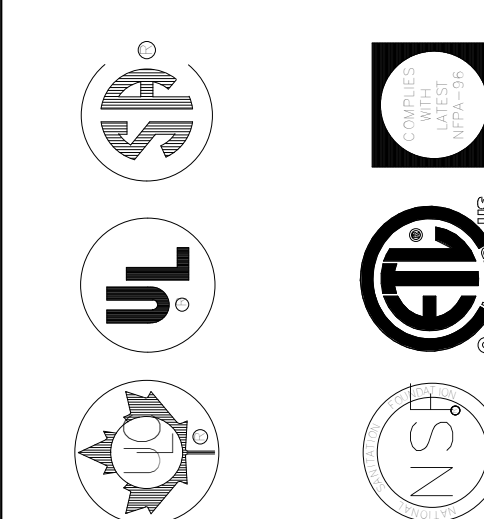
PLAN VIEW



H-3 SECTION VIEW

- CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
- 18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET WITH FRONT CJ INTAKE
- NOTCHED RIGHT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- GREASE CUP RIGHT END

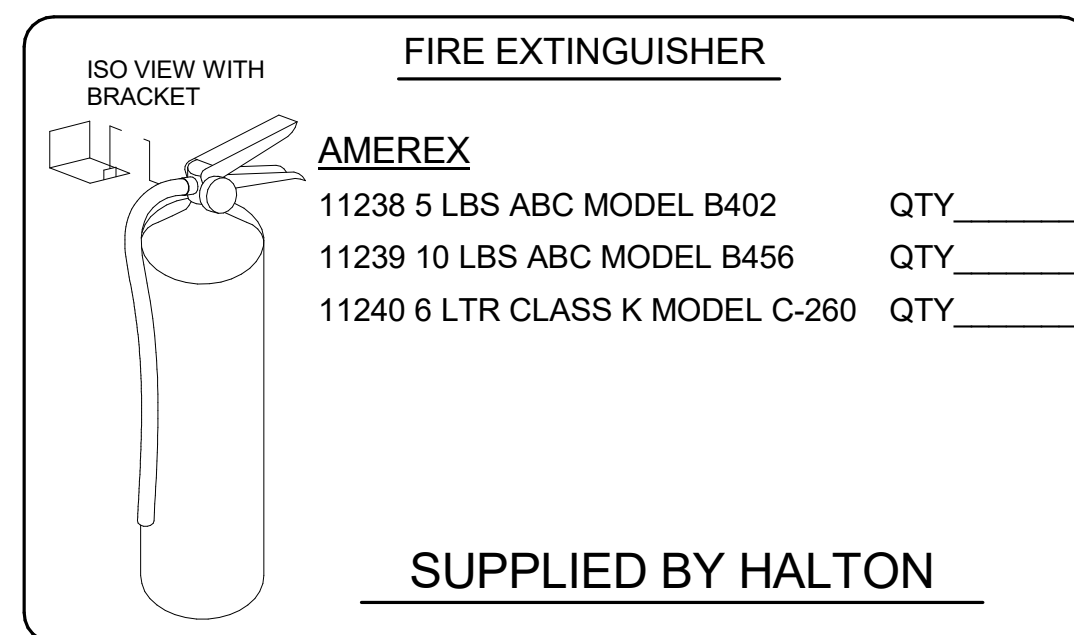
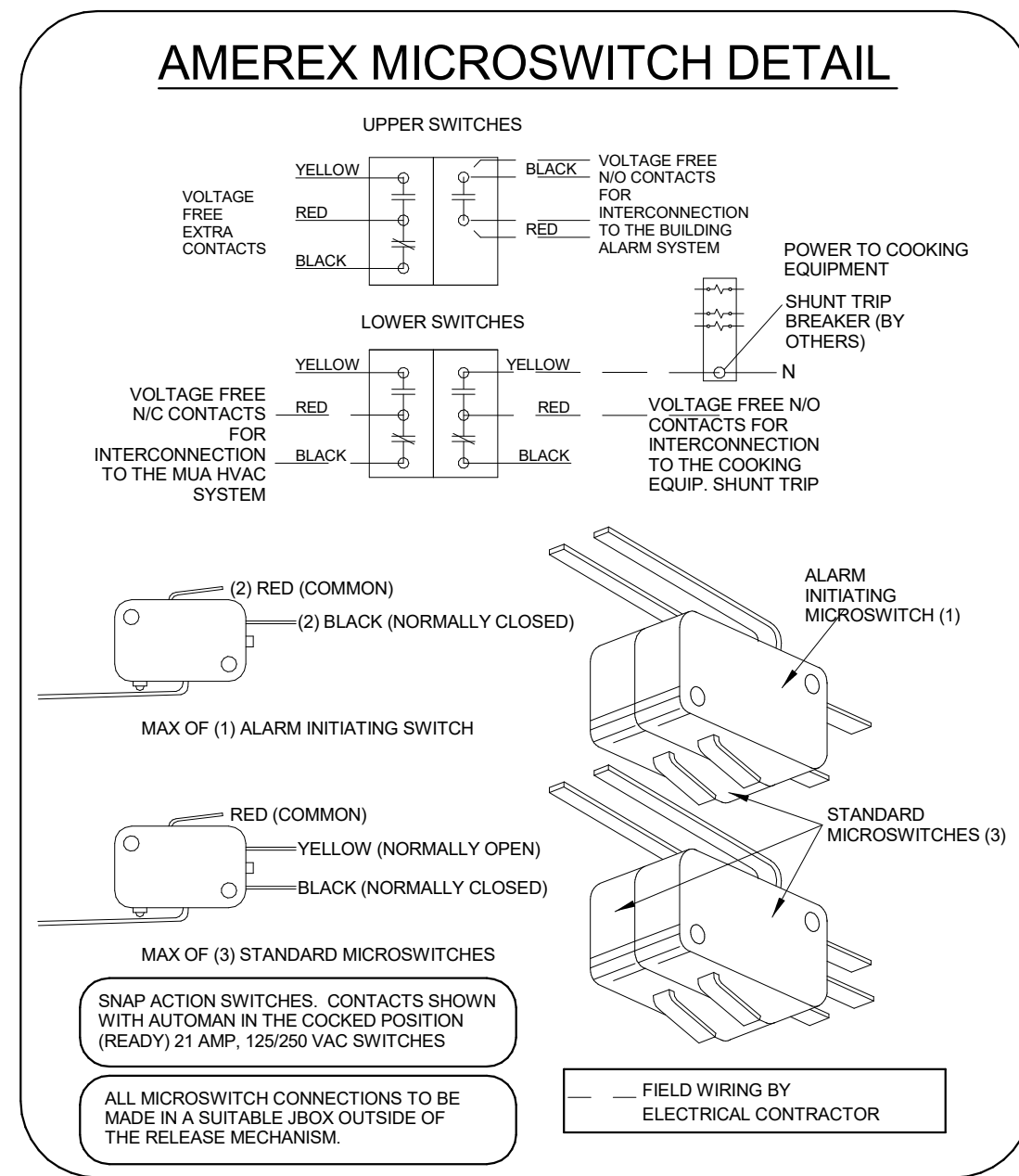
Halton
FACTORY CONTROLLED BY SERIAL NO. APPROVED BY DATE
MODEL NO. SERIAL NO. ITEM NO.
REVISIONS
REVISION NO. DATE DESCRIPTION



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW WEBSITE: WWW.HALTONCOMPANY.COM

DATE	BY	REVISION DESCRIPTION

PROJECT: **CHICK-FL-A**
LOCATION: FAIRPORT NINE MILE FSU
DRAWN BY: NTS
DATE: 10/29/2025
SCALE: NTS
SN#: 05767
Halton Dwg: U25-802-01



AMEREX

FIRE SYSTEM HOODS H-2 & H-3

- (1) KP475 TANK SYSTEM REMOTE MOUNTED FOR HOODS H-2 & H-3
- MAXIMUM FLOWPOINTS = 14
- 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

AMEREX PART #	HALTON PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	12148	2	DUCT NOZZLES	2
11982	12147	2	PLENUM NOZZLES	2
28147	13384	4	APPLIANCE NOZZLES	8
TOTAL FLOW POINTS				12
ITEM	QTY	DESCRIPTION		
12508-P001	11897	2	DETECTORS BRACKET ASSEMBLY	
17379	11939	1	KP475 AGENT CYLINDER (4.75 GALLON TANK)	
18001	11940	1	MECHANICAL RELEASE MODULE WITH ENCLOSURE WITH DOUBLE POLE MICRO SWITCH	
12524	11942	2	EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)	
21481	12155	1	REMOTE MANUAL PULL STATION	

FIRE SYSTEM HOODS H-1L & H-1R

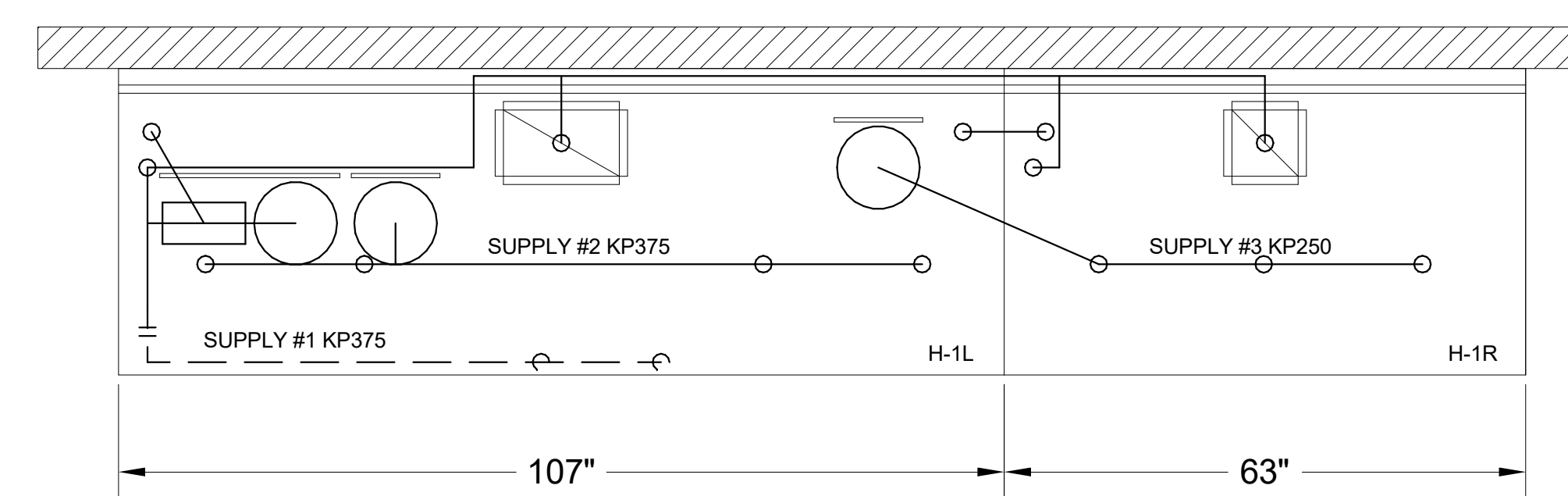
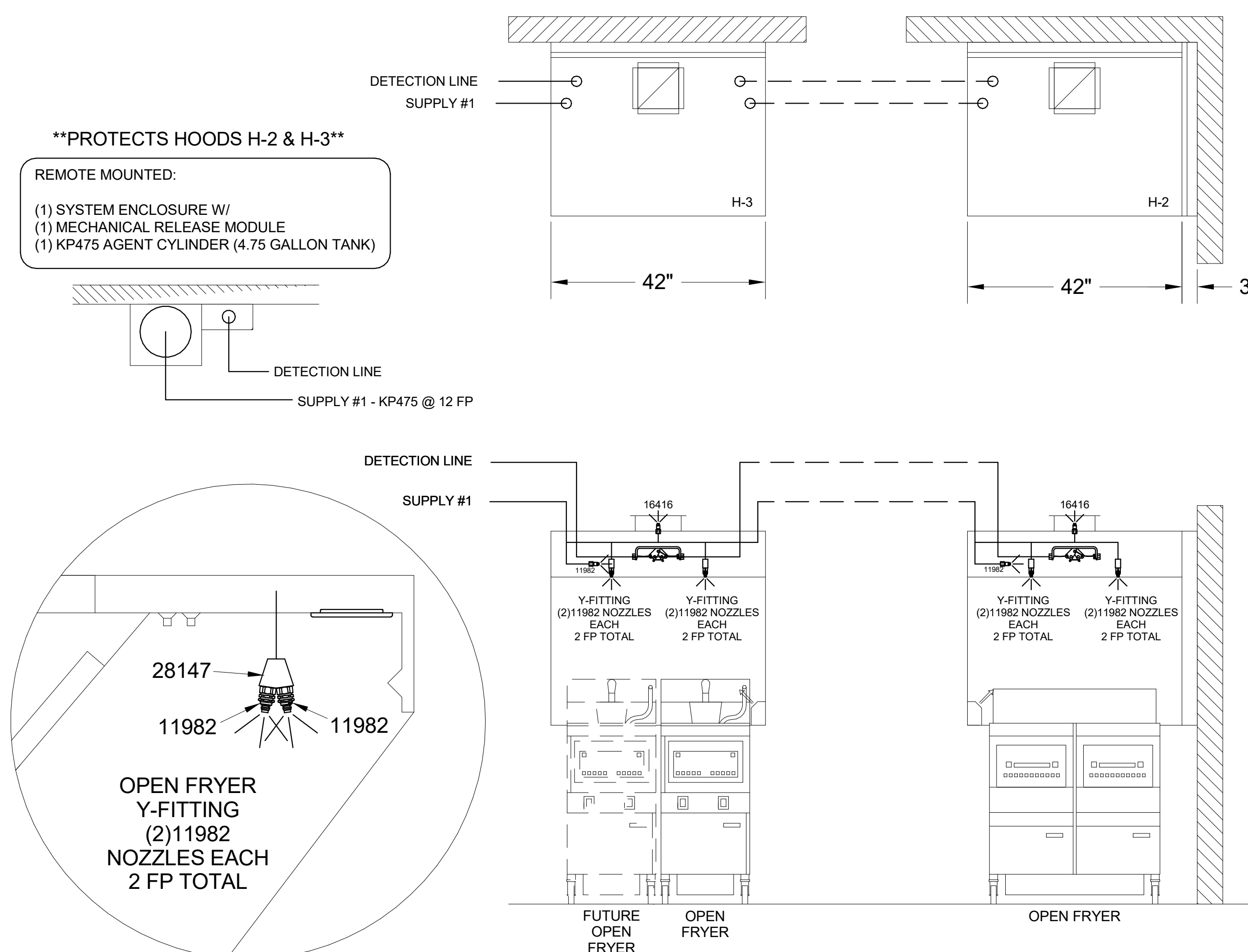
- (2) KP375 TANKS & (1) KP250 TANK MOUNTED ON HOOD H-1L FOR HOODS H-1L & H-1R
- MAXIMUM FLOWPOINTS = 29
- 1/2" & 3/8" BLACK IRON PIPING WITH 3/8" S.S. APPLIANCE DROPS

AMEREX PART #	HALTON PART #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	12148	2	DUCT NOZZLES	2
11982	12147	2	PLENUM NOZZLES	2
14178	12149	2	APPLIANCE NOZZLES	4
11984	13387	7	APPLIANCE NOZZLES	3.5
TOTAL FLOW POINTS				11.5
ITEM	QTY	DESCRIPTION		
12508-P001	11897	8	DETECTORS BRACKET ASSEMBLY	
26948	13389	1	KP250 AGENT CYLINDER (2.61 GALLON TANK)	
13334	11938	2	KP375 AGENT CYLINDER (3.75 GALLON TANK)	
11977	12152	1	MECHANICAL RELEASE MODULE WITHOUT ENCLOSURE WITH DOUBLE POLE MICRO SWITCH	
12524	11942	2	EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN MECHANICAL REL. MODULE)	
21481	12155	1	REMOTE MANUAL PULL STATION	

NOZZLE	ID	QTY	DESCRIPTION
16416	0R-0G	1 EA.	DUCT NOZZLES
11982	2R-0G	1 PER 10'	PLENUM NOZZLES
11982 Y-FITTING	2R-0G	1 FITTING WITH 2 NOZZLES PER FRYER	ALL OPEN FRYERS
11984	4R-0G	1 PER FRYER	ALL PRESSURE FRYERS
14178	0R-1G	1 PER GRILL	ALL GRILLS

FOR REFERENCE ONLY

1/2" BLACK IRON SUPPLY LINE REQ'D FROM TANK TO FIRST BRANCH LINE FOR 475 TANKS ONLY!



PRESSURE FRYER AND GRILL NOZZLES WITH SWIVELS ONLY

AMEREX FIRE SYSTEM LAYOUT

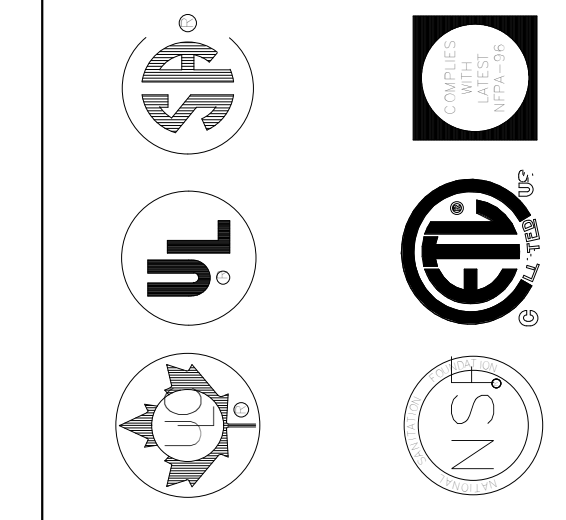
FUSIBLE LINK RATINGS

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

AMEREX FIRE SYSTEM

UL LISTED PER STD LATEST STD 300

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



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, AZ 85264
1-905-624-0001

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-270-237-5600

REV. 1 2 3 4 5 6 7

DATE _____ BY _____

CHICK-FL-A

PROJECT: _____

LOCATION: FAIRPORT NINE MILE FSU

DRAWN BY: NTS DATE: 10/29/2025

SCALE: NTS

SN#: 05767

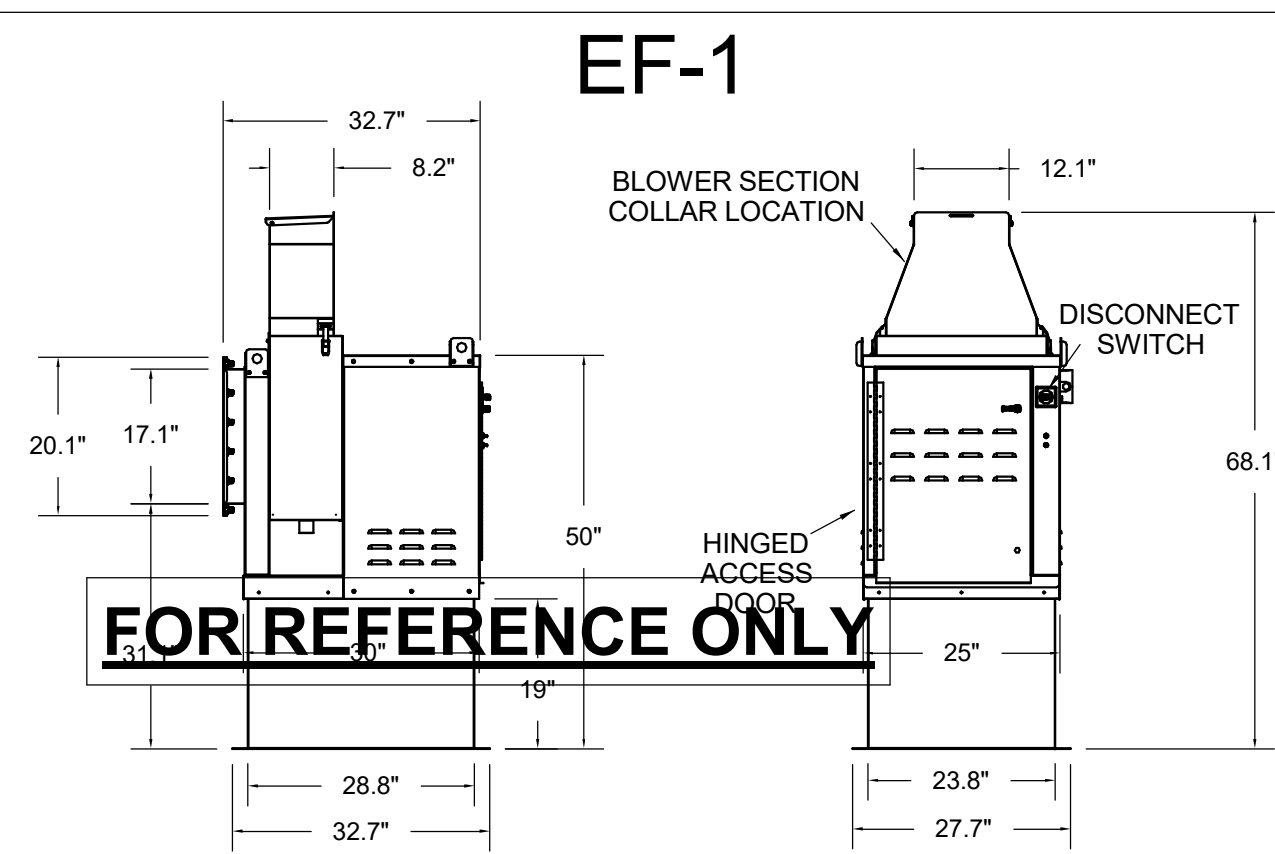
Halton Dwg: U25-902-03

Halton Dwg: U25-902-03

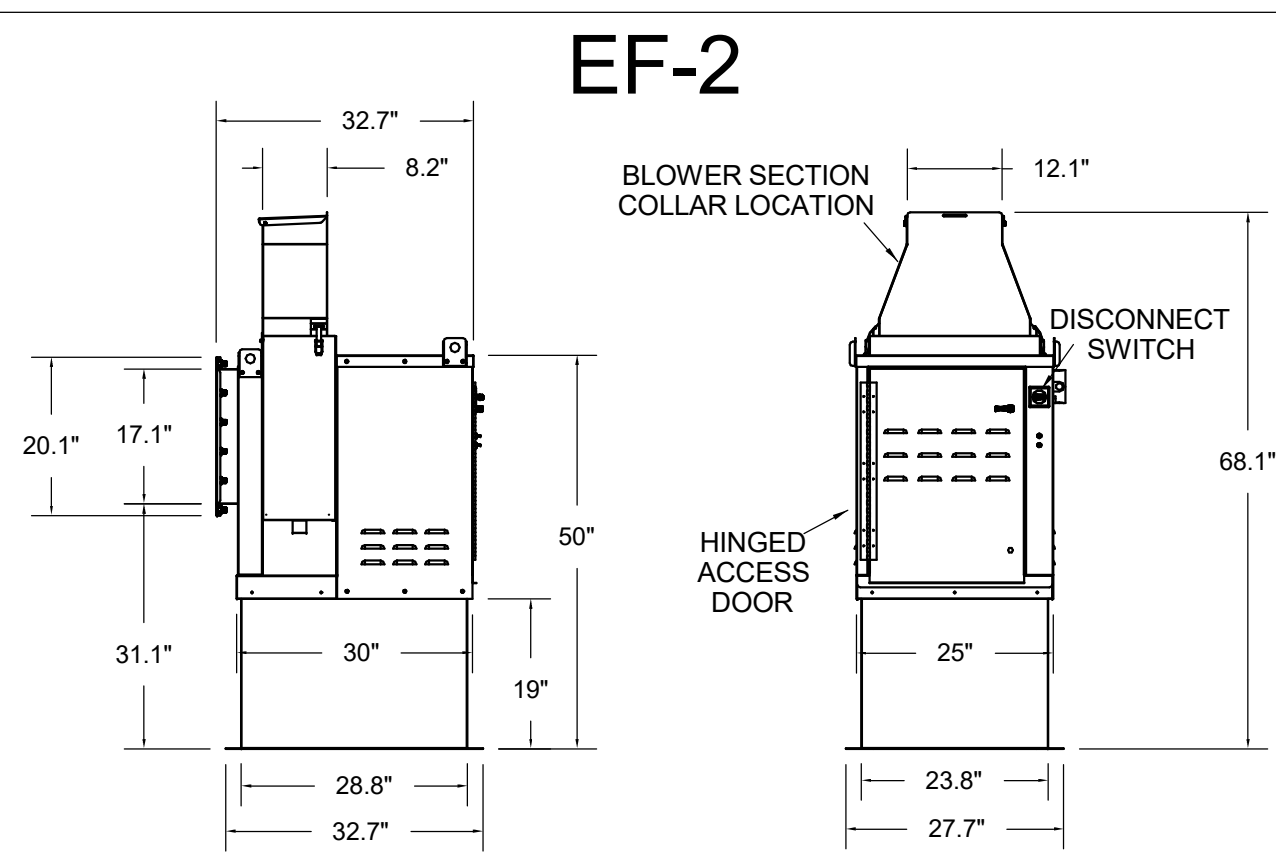
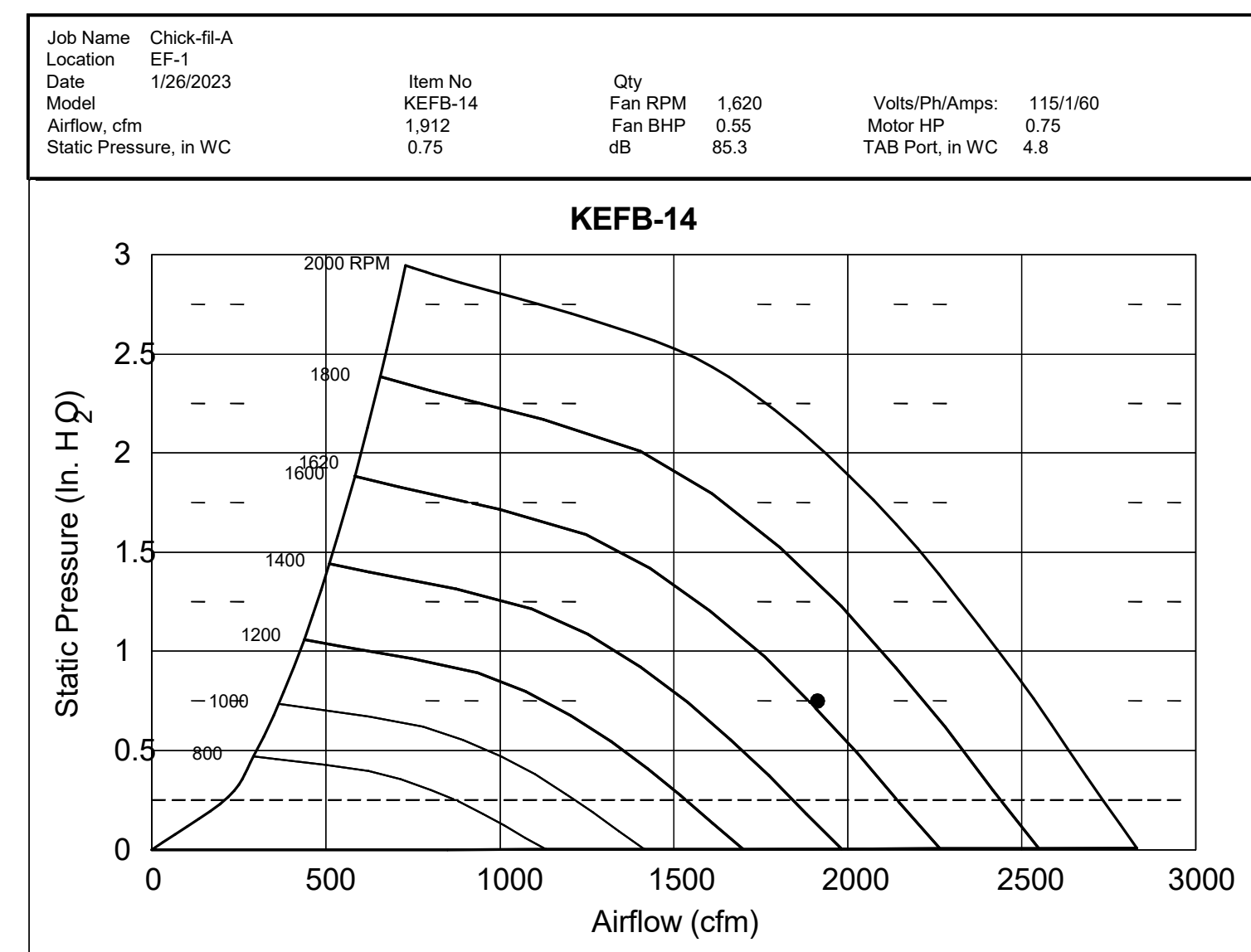
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MH-1.3

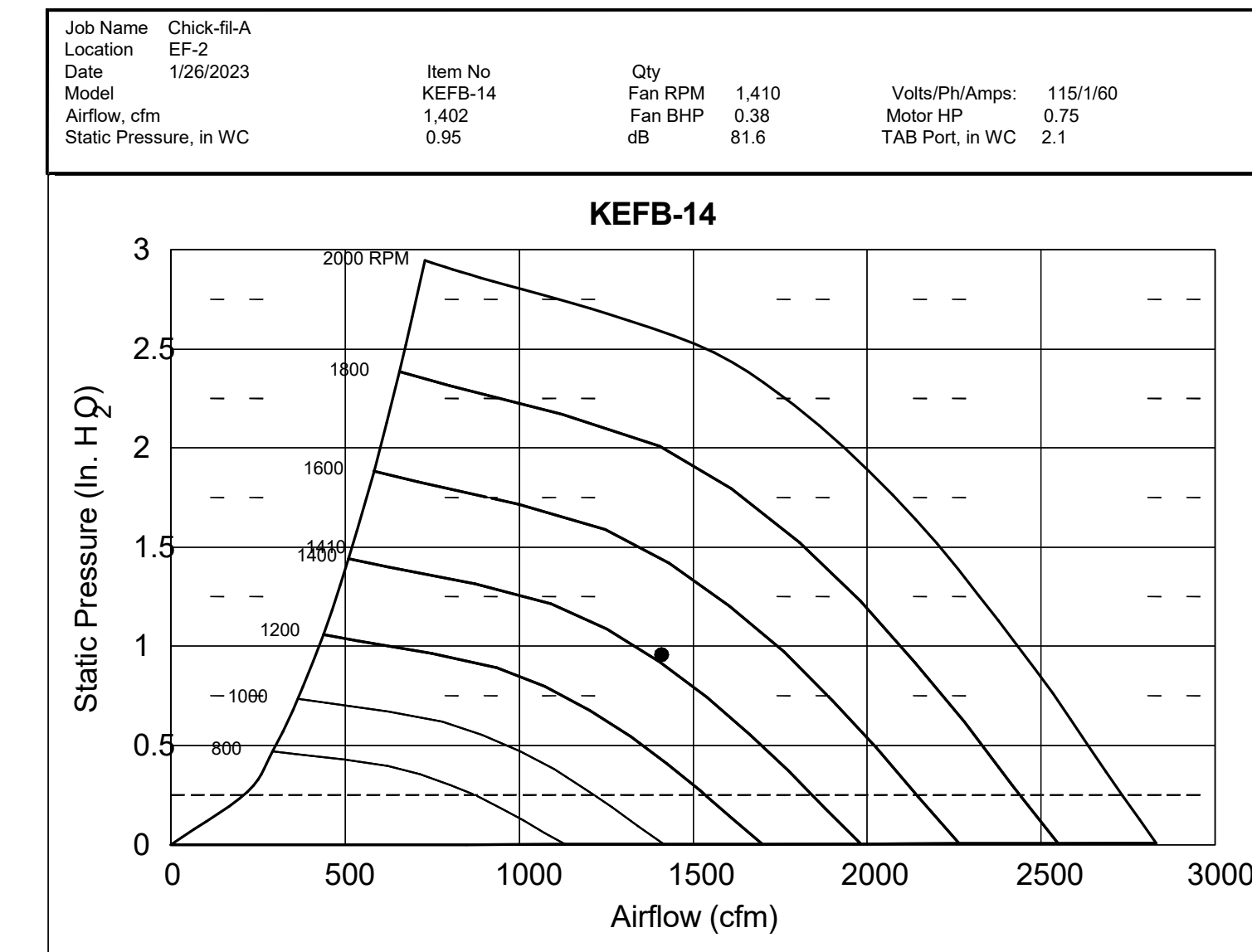
halton CARE FOR INDOOR AIR



Halton KEFB Exhaust Fan

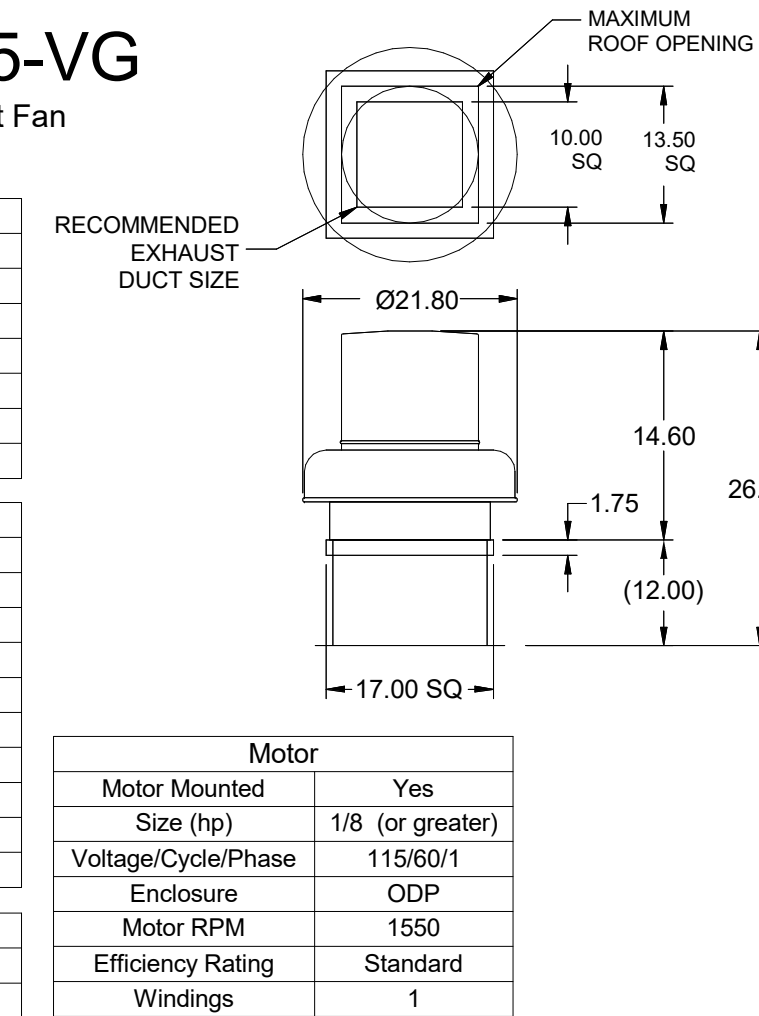


Halton KEFB Exhaust Fan

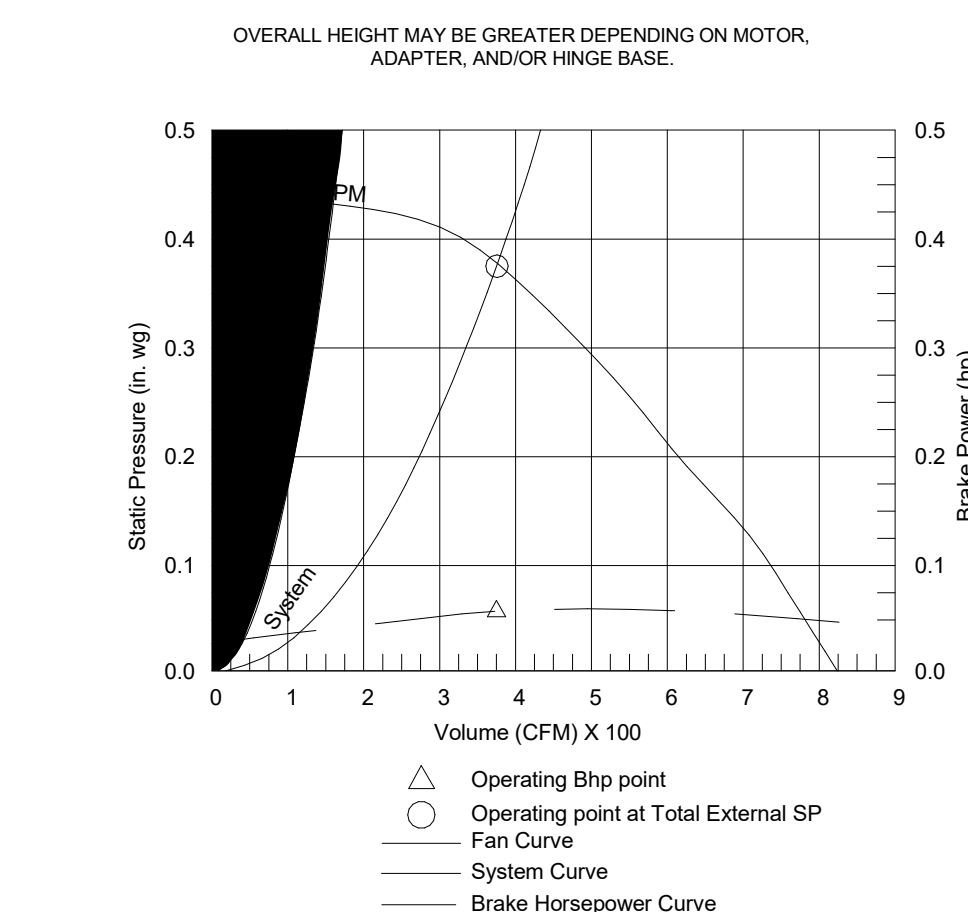


Model: XRED-095-VG
Direct Drive Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	28
Weight w/ Acc's (lb)	35
Weight w/ Acc's and Curb (lb)	49
Standard Curb Cap Size (in.)	17 x 17
Optional Damper (in.)	10 x 10
Roof Opening (in.)	13.5 x 13.5
Performance	
Requested Volume (CFM)	360
Actual Volume (CFM)	375
Total External SP (in. wg)	0.375
Fan RPM	1207
Operating Power (hp)	0.05
Elevation (ft)	23
Airstream Temp. (F)	70
Air Density (lb/ft ³)	0.075
Tip Speed (ft/min)	3,437
Static Eff. (%)	41
Misc Fan Data	
Fan Eff. Index (EEI)	-
Outlet Velocity (ft/min)	323

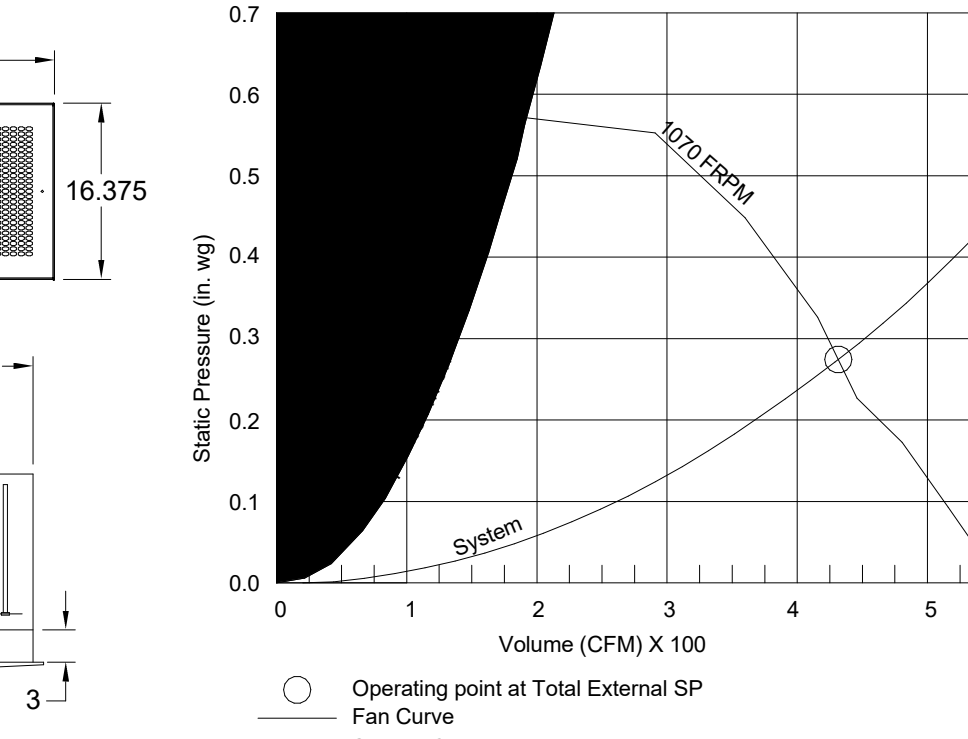
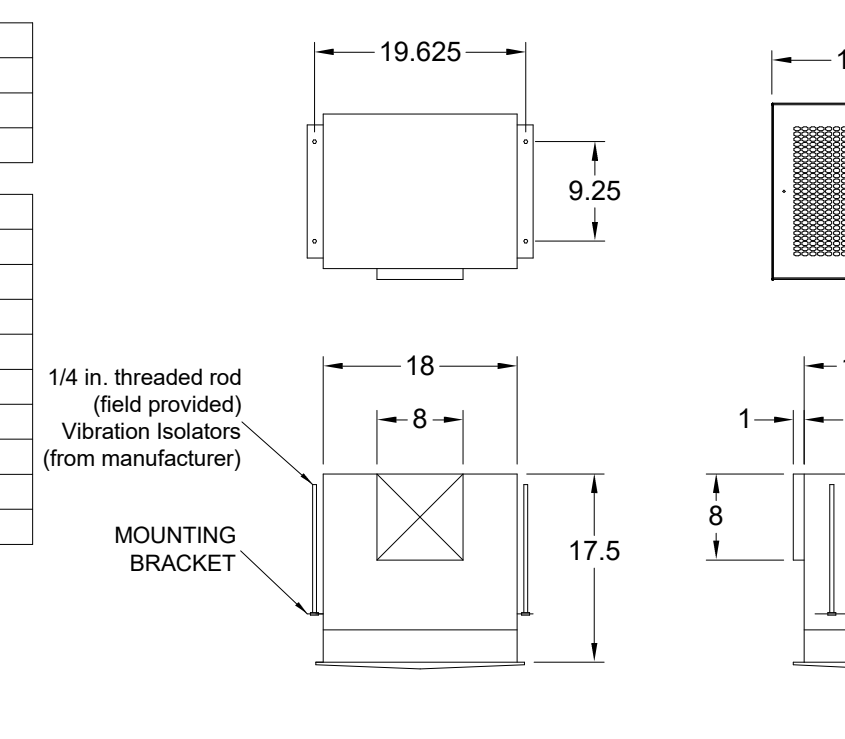


EF-3



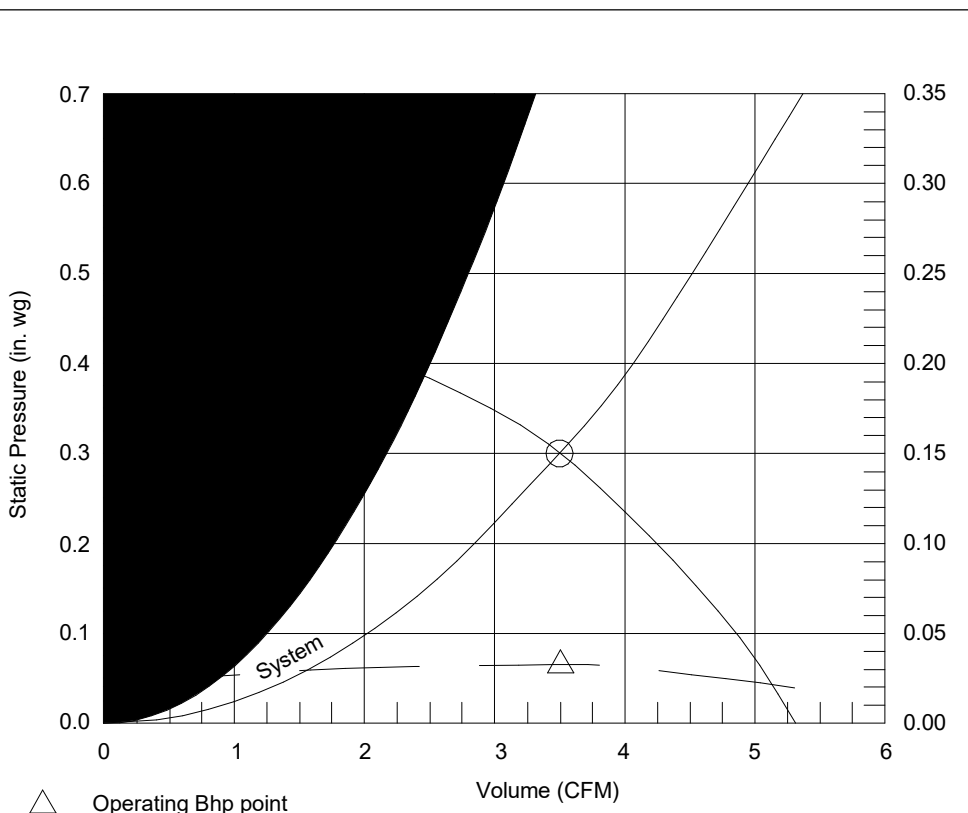
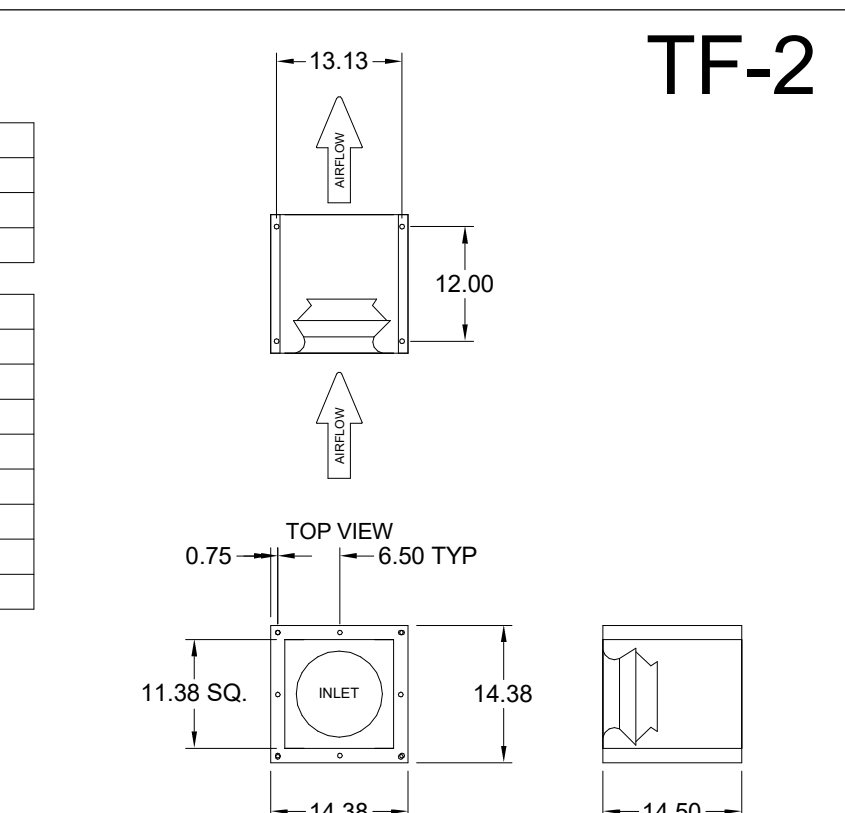
Model: SP-A510-VG

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	31
Weight w/ Acc's (lb)	40
Performance	
Requested Volume (CFM)	450
Actual Volume (CFM)	431
Total External SP (in. wg)	0.275
Fan RPM	1070
FLA (A)	3.3
Elevation (ft)	23
Airstream Temp. (F)	70
Air Density (lb/ft ³)	0.075
Sones	4.5
Motor	
Motor Mounted	Yes
Size (hp)	1/8 (or greater)
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP



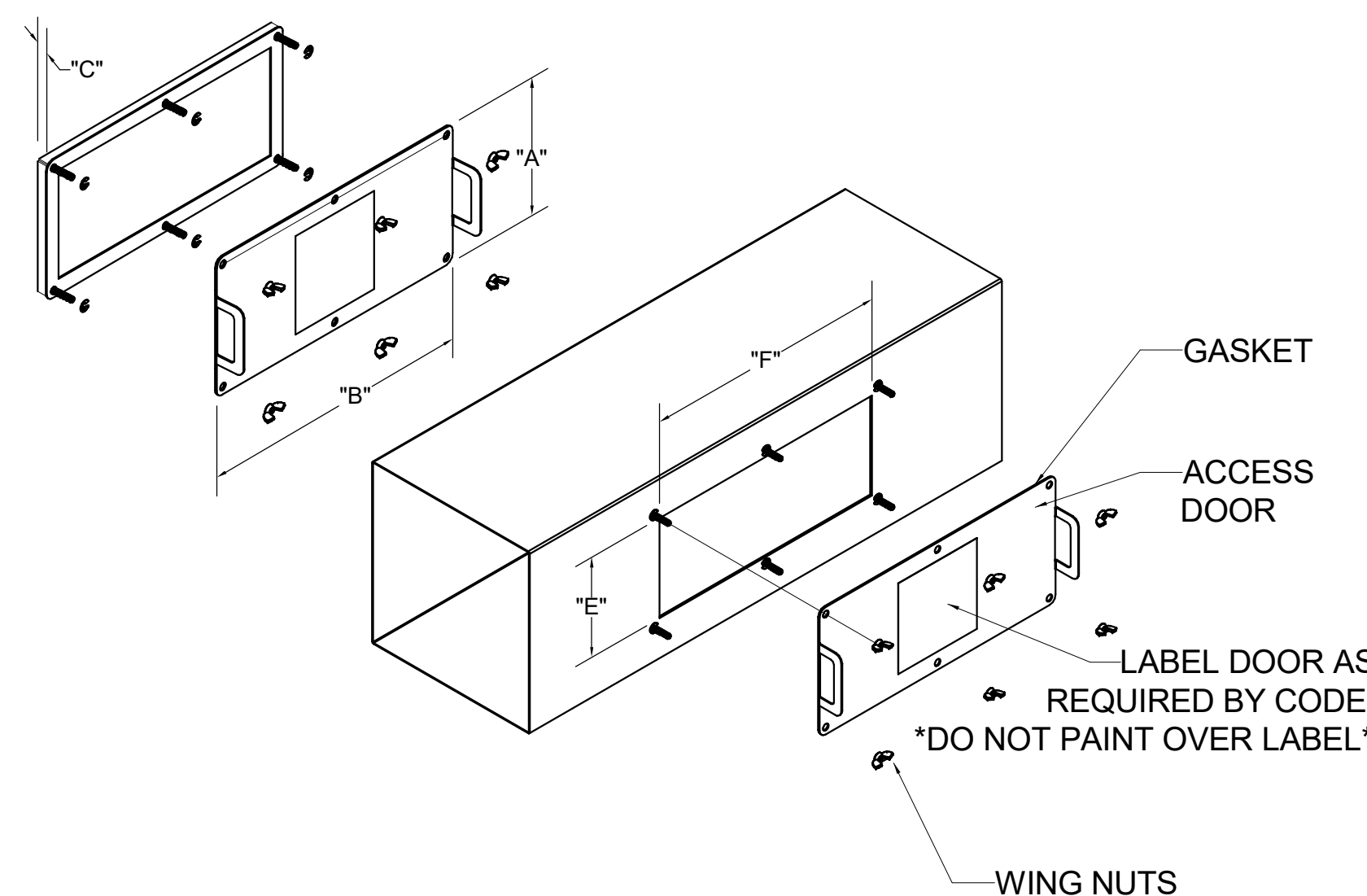
Model: XID-7-VG

Dimensional	
Quantity	1
Weight w/o Acc's (lb)	31
Weight w/ Acc's (lb)	41
Performance	
Requested Volume (CFM)	350
Actual Volume (CFM)	350
Total External SP (in. wg)	0.3
Fan RPM	1603
Operating Power (hp)	0.03
Elevation (ft)	325
Airstream Temp. (F)	70
Air Density (lb/ft ³)	0.074
Motor	
Motor Mounted	Yes
Size (hp)	1/15
Voltage/Cycle/Phase	115/60/1
Enclosure	TENV



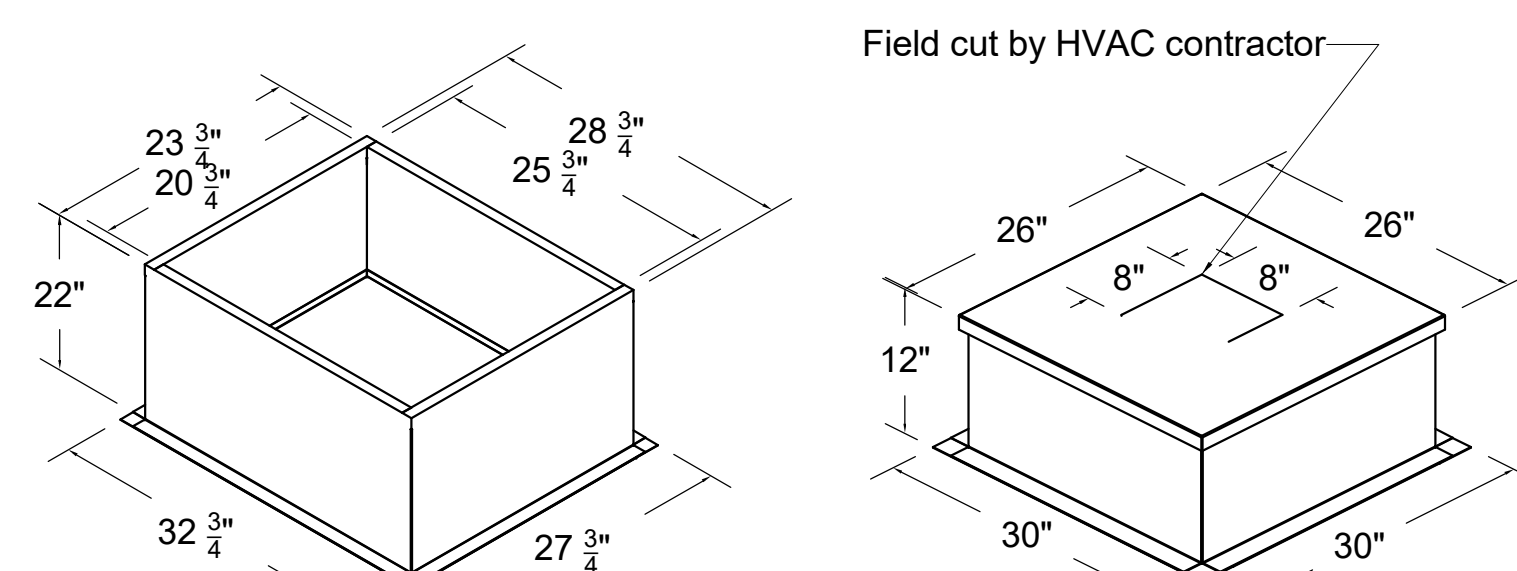
GREASE ACCESS DOOR SCHEDULE					
MODEL	"A"	"B"	"C"	"E"	"F"
KAP0715	7	15	FLAT	5.5	13.5
KAP1015	10	15	1/2	7	12

ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL



INSTALL PER MANUFACTURER'S INSTRUCTIONS

Halton Kitchen Exhaust Fan Curb Insulated Duct Curb



Kitchen Exhaust Fan Roof Curb
Standard Construction Features:
- Roof Curb fits between the building roof and the fan mounted directly to the roof support structure
- Constructed of 18 ga aluminum steel
- Straight Sided without a cant
- 2 in. mounting flange
- Height is 22 in.

Insulated Duct Curb
Standard Construction Features:
- Duct Curb fits between the building roof and the fan mounted directly to the roof support structure
- Constructed of 18 ga aluminum steel
- Straight Sided without a cant
- 2 in. mounting flange
- Height is 12 in.
- 16 ga. cap

Model: GPI
For Model: XRED-090-VG
Curb & Damper Tray

ACCESSORIES				
MATERIAL	SECURITY BARS	LINER	INSULATION (R VALUE)	INSULATION R VALUE
GALVANIZED	NO	NO	1	R4.3

GENERAL									
TAG	QTY	MODEL	SIZING METHOD	UNDERSIZING (in.)	WEIGHT (lb)	SHIPPED ASSEMBLED	UNION LABEL		
EF-3	1	GPI-17	NOMINAL	1.5	14	YES	NO PREFERENCE		

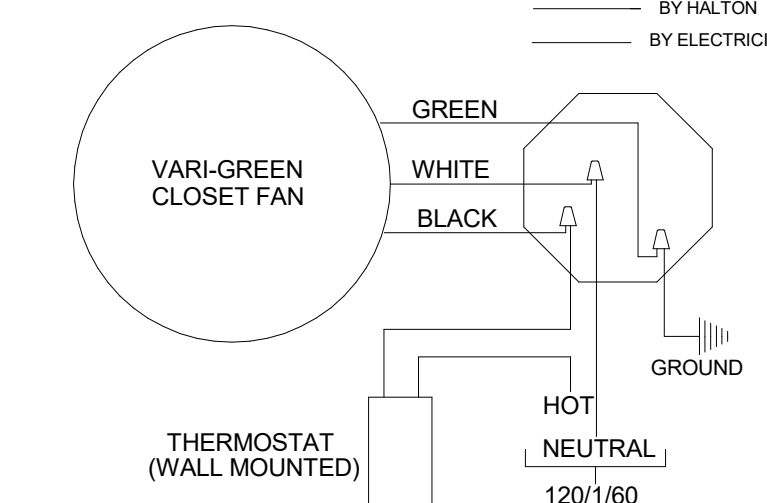
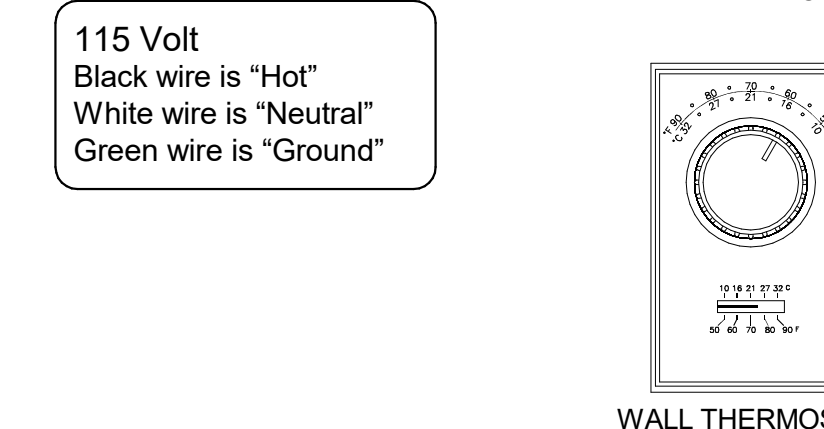
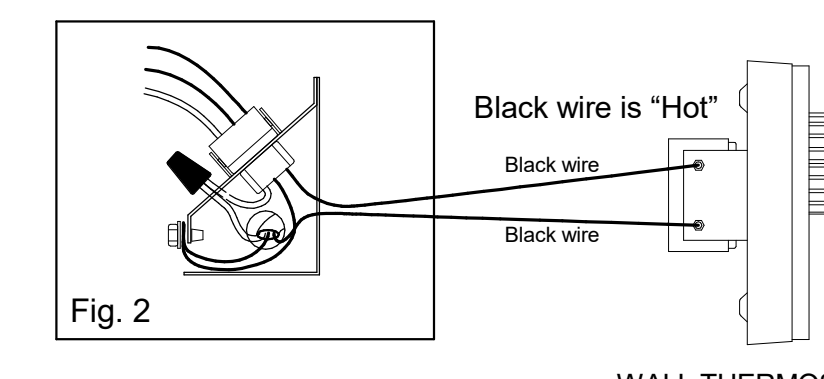
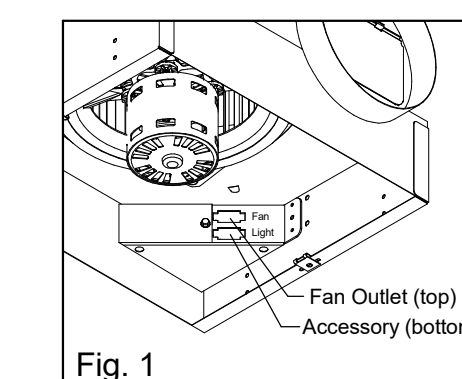
DIMENSIONS										
CURB HEIGHT (in.)	NOMINAL OUTSIDE WIDTH (in.)	NOMINAL OUTSIDE LENGTH (in.)	ACTUAL OUTSIDE WIDTH (in.)	ACTUAL OUTSIDE LENGTH (in.)	ACTUAL INSIDE WIDTH (in.)	ACTUAL INSIDE LENGTH (in.)	FLANGE WIDTH (in.)	FLANGE LENGTH (in.)	HINGE BASE WIDTH* (in.)	HINGE BASE LENGTH* (in.)
12	17	17	15.5	15.5	12	12		19.5	16	

*MAY NOT BE APPLICABLE

SP-A510-VG TECHNICAL CLOSET FAN WIRING AND SPEED CONTROL

Wire the Thermostat

- The wiring harness for the thermostat is factory installed in the location shown in Figure 1. There is a small removable cover on the exterior of the portion shown in Figure 2 and a knockout for installation of conduit. Install conduit and run wires to thermostat location. See Figure 2 and Wall Thermostat detail for wiring connections.
- Replace wiring cover. The fan has its power leg interrupted by the thermostat on the wall, turning it on or off. The variable speed is the Balance Dial set point at the fan and is the speed setting you want the fan to run when it's "on".



The tri-voltage feature allows the motor to operate at 115/208-230/277V. The operating voltage is selected via the voltage jumper wire. When the jumper wire is connected, the motor operates at 115V, see Figure 3. When the jumper wire is disconnected and capped, the motor operates at 208-230/277V, see Figure 4.

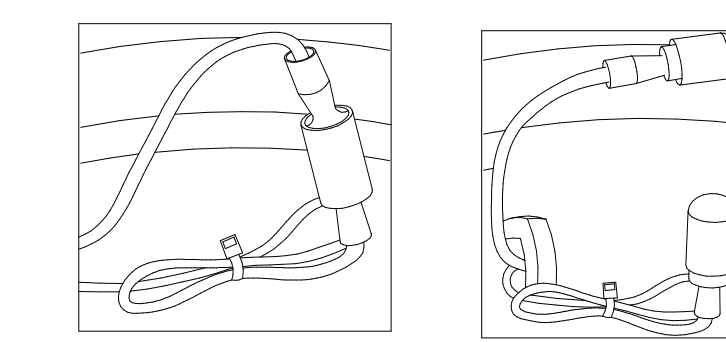


Figure 3 115V Operation

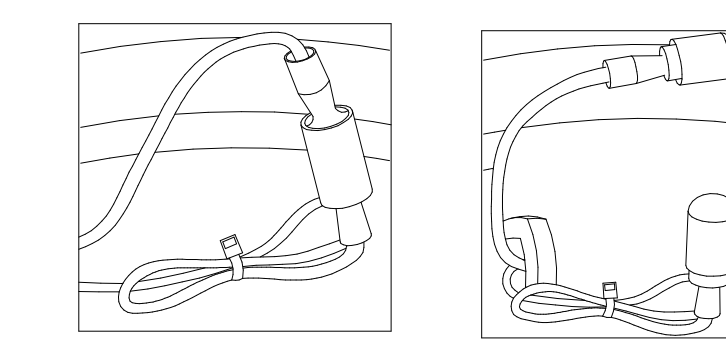
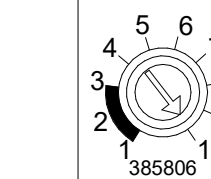


Figure 4 208-230/277V Operation

Balance Dial

The speed control dial (P/N 385806) is mounted on the power pack bracket and will be plugged into the 9-pin connector on the motor. To increase speed, rotate the dial clockwise. To decrease speed, rotate the dial counterclockwise. From 0-1.9V the motor will be off and will operate in the 2-10V range.



CHICK-FL-A PROJECT: CHICK-FL-A

LOCATION: FAIRPORT NINE MILE FSU DATE: 10/29/2025

DRAWN BY: NTS DATE: 10/29/2025

SCALE: NTS

Halton Dwg: U25-902-04

Sheet MH-1.4

MAIL APPROVED: DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

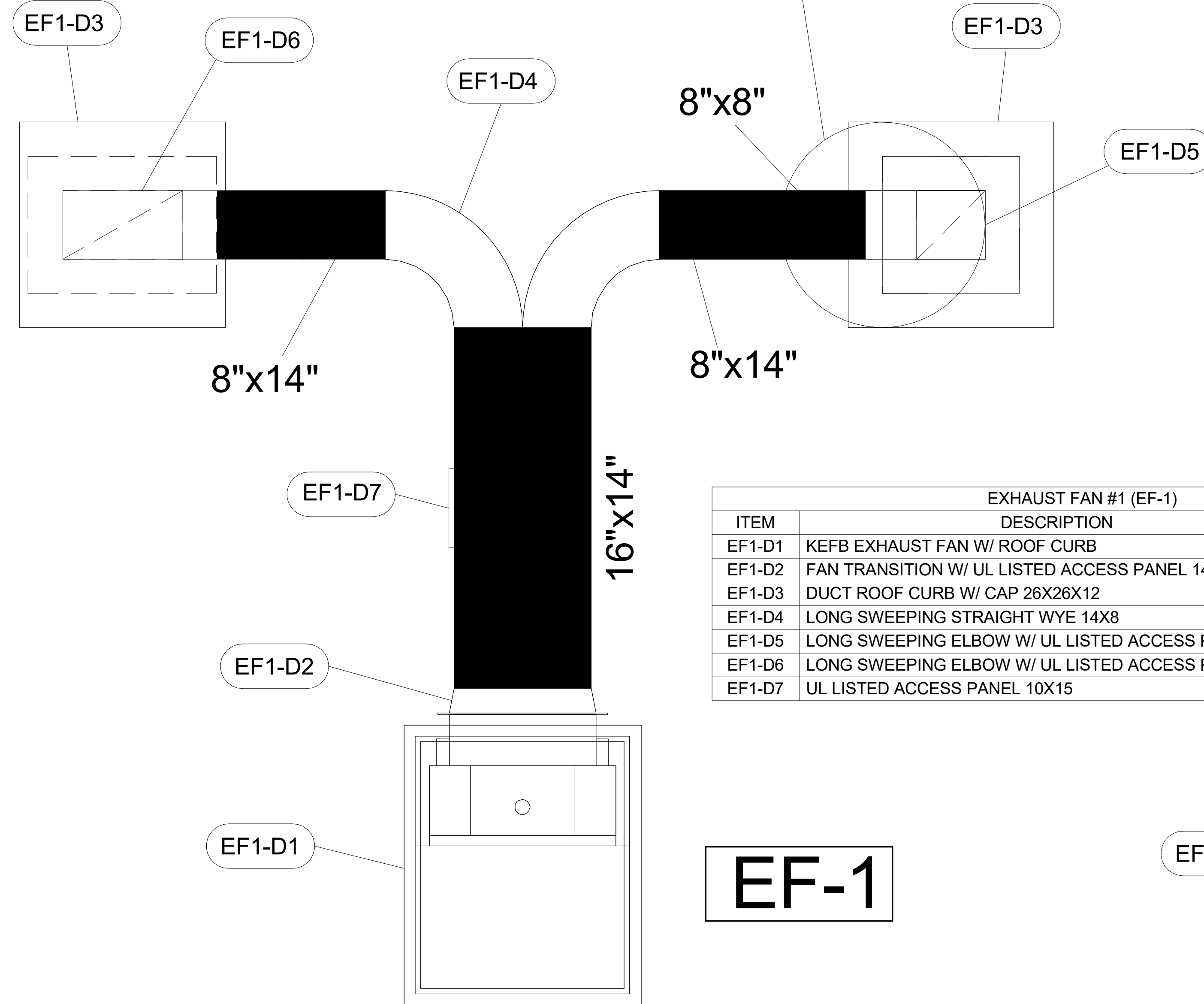
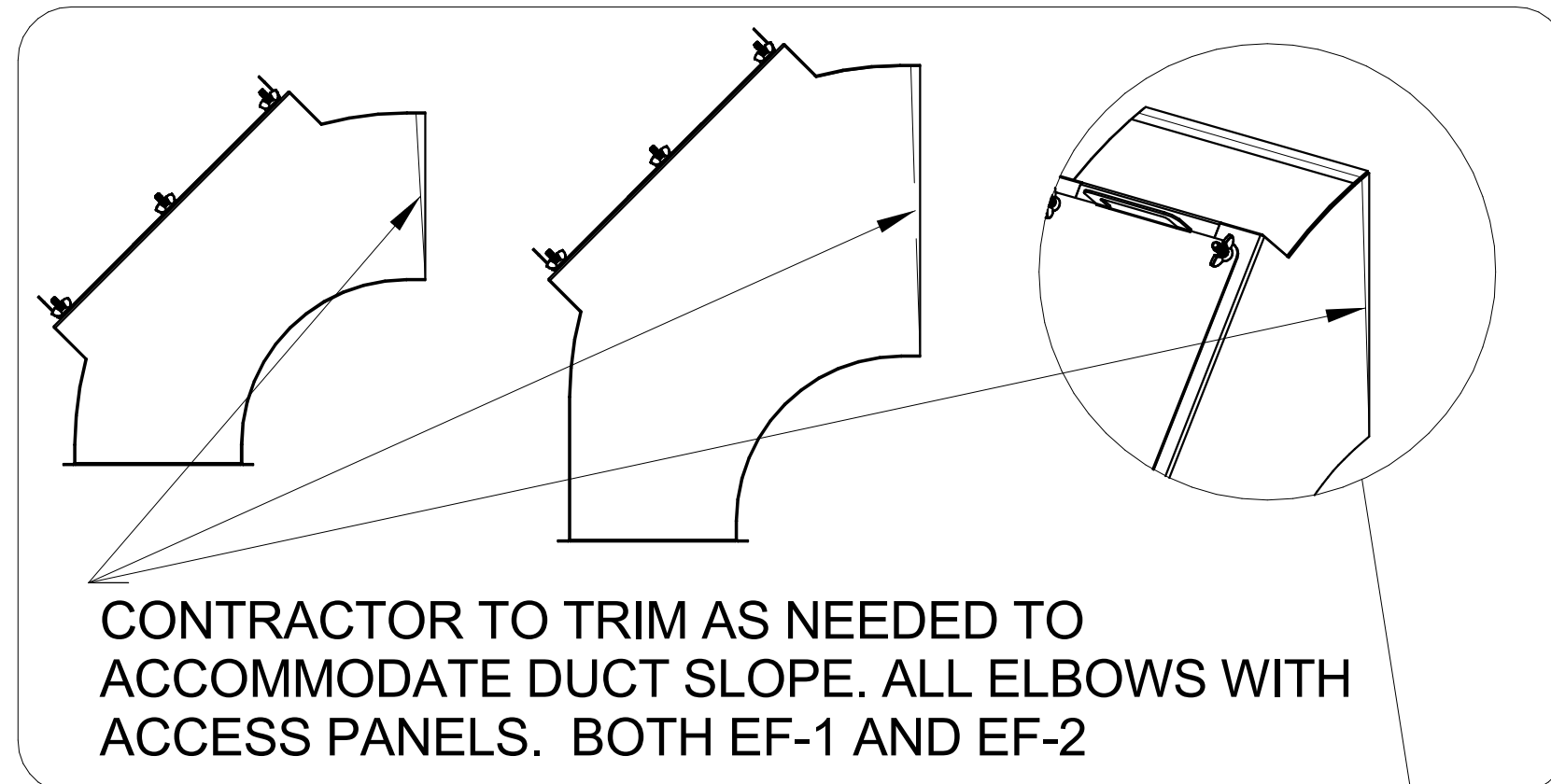
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301

HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42764 1-270-237-5600

REVISION DESCRIPTION

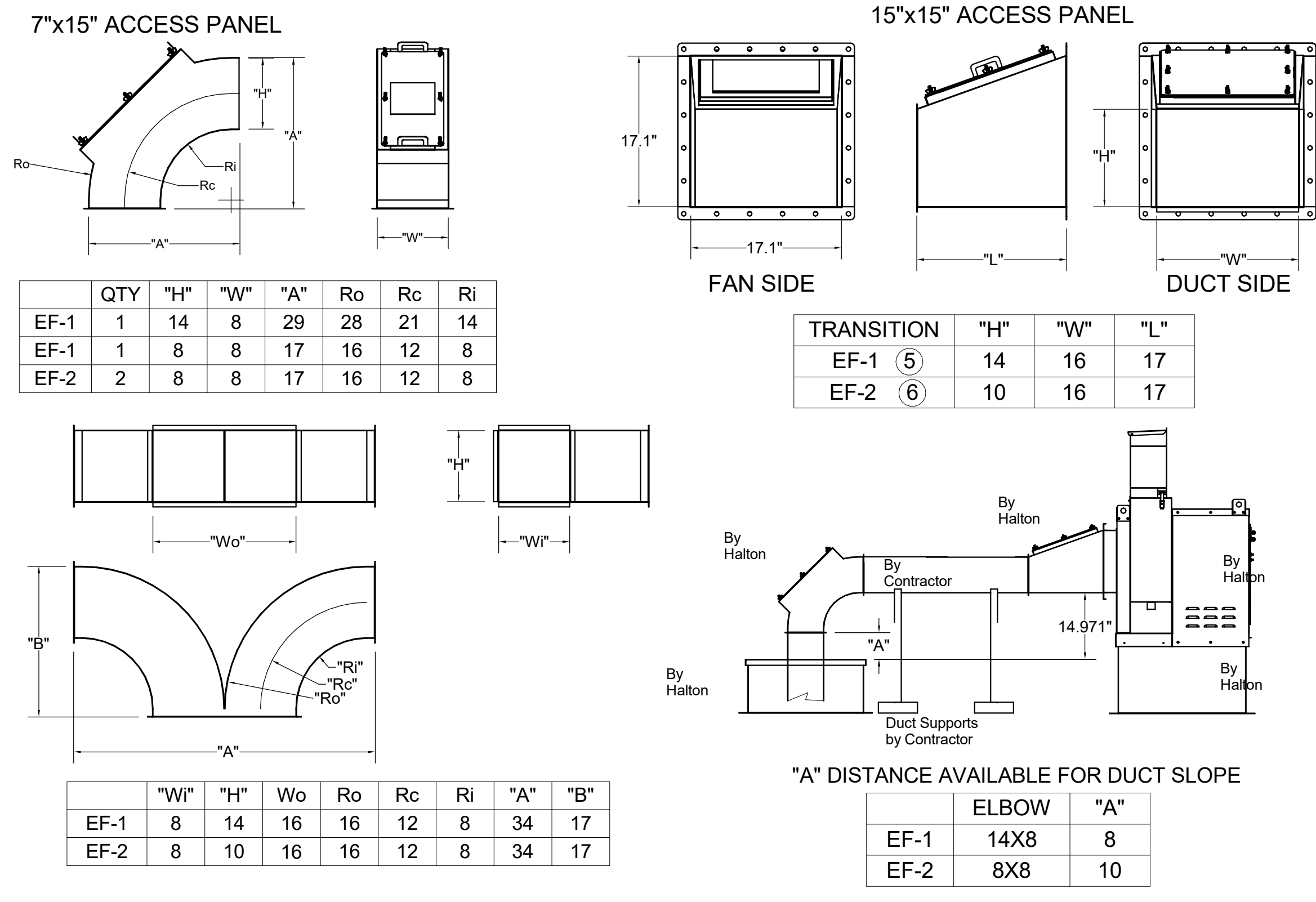
REV.	DATE	BY
1		
2		
3		
4		
5		
6		
7		

UL, NSF, and other certification logos are present.



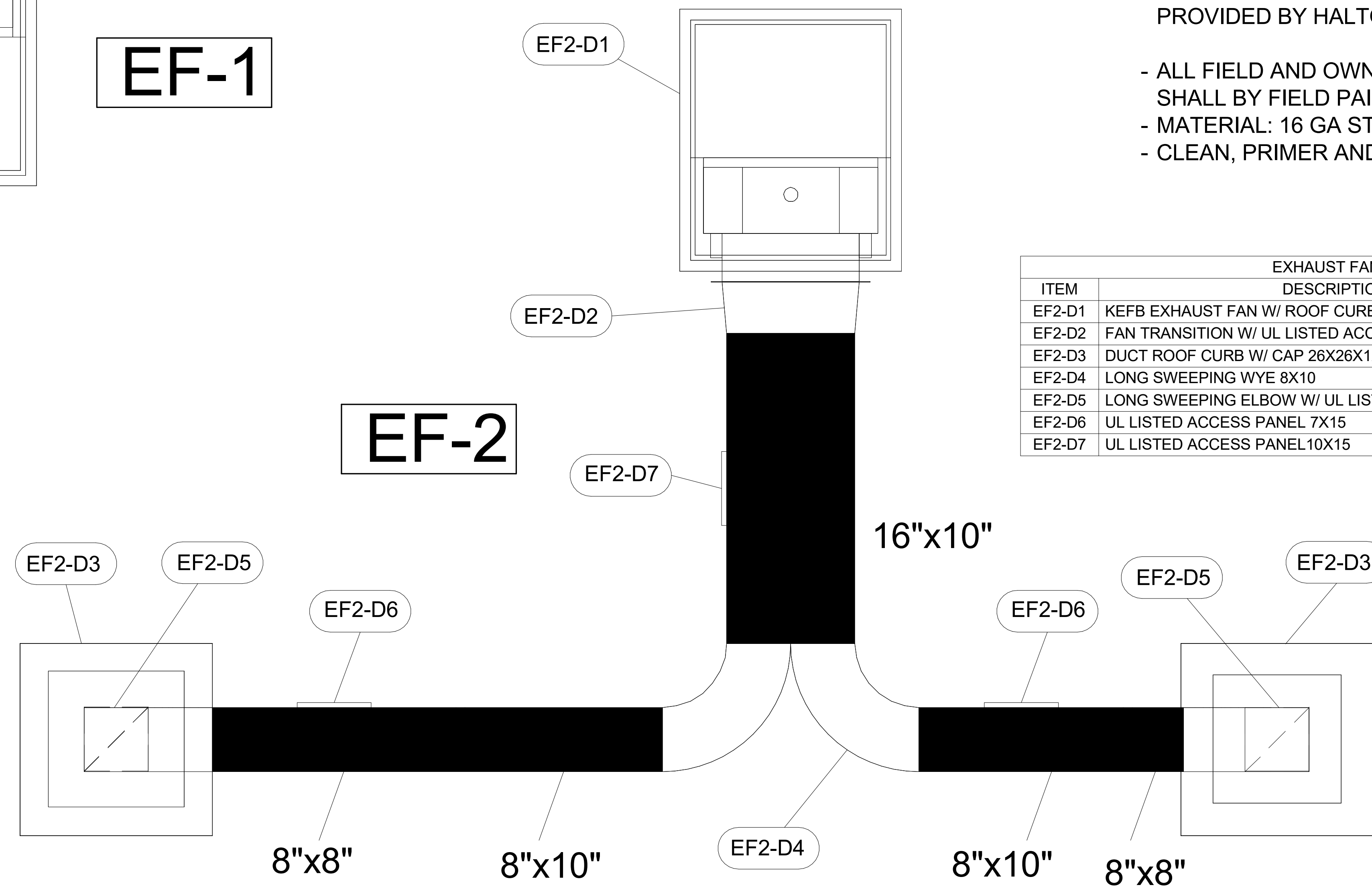
EXHAUST FAN #1 (EF-1)			
ITEM	DESCRIPTION	QTY	PART #S
EF1-D1	KEFB EXHAUST FAN W/ ROOF CURB	1	60437
EF1-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 14X16	1	60441
EF1-D3	DUCT ROOF CURB W/ CAP 26X26X12	2	13146
EF1-D4	LONG SWEEPING STRAIGHT WYE 14X8	1	60448
EF1-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	1	60443
EF1-D6	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 14X8	1	60450
EF1-D7	UL LISTED ACCESS PANEL 10X15	1	60440

EF-1



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

- 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. THE UL LISTED ACCESS PANELS PROVIDED BY HALTON MUST BE INSTALLED IN DUCT SECTIONS NOT PROVIDED BY HALTON BY HVAC CONTRACTOR.
- ALL FIELD AND OWNER SUPPLIED EXTERIOR ROOF GREASE DUCT SHALL BY FIELD PAINTED ONCE COMPLETE.
- MATERIAL: 16 GA STEEL WITH ALUMINIZED CORROSION PROTECTION.
- CLEAN, PRIMER AND PAINT PER CHICK-FIL-A SPECIFICATIONS.



EXHAUST FAN #2 (EF-2)			
ITEM	DESCRIPTION	QTY	PART #S
EF2-D1	KEFB EXHAUST FAN W/ ROOF CURB	1	60437
EF2-D2	FAN TRANSITION W/ UL LISTED ACCESS PANEL 10X16	1	60442
EF2-D3	DUCT ROOF CURB W/ CAP 26X26X12	2	13146
EF2-D4	LONG SWEEPING WYE 8X10	1	60447
EF2-D5	LONG SWEEPING ELBOW W/ UL LISTED ACCESS PANEL 8X8	2	60443
EF2-D6	UL LISTED ACCESS PANEL 7X15	2	60438
EF2-D7	UL LISTED ACCESS PANEL 10X15	1	60440

EF-2

FOR REFERENCE ONLY

30-LE-BN

PROJECT: **CHICK-FIL-A**

LOCATION: FAIRPORT NINE MILE FSU

DRAWN BY: NTS DATE: 10/29/2025

SCALE: NTS

Halton Dwg: U25-802-05

Sheet **MH-1.5**

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY. BELOW WEBSITE: WWW.HALTONCOMPANY.COM

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

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, AZ 85264
1-270-237-5600

REVISION: DESCRIPTION BY DATE

1		
2		
3		
4		
5		
6		
7		

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

APPROVED BY: _____ DATE: _____

UL LISTED ACCESS PANELS

NSI