

EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND DIFFUSERS. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.

I MECHANICAL DEMOLITION FLOOR PLAN
SCALE: 1/4"=1'-0"

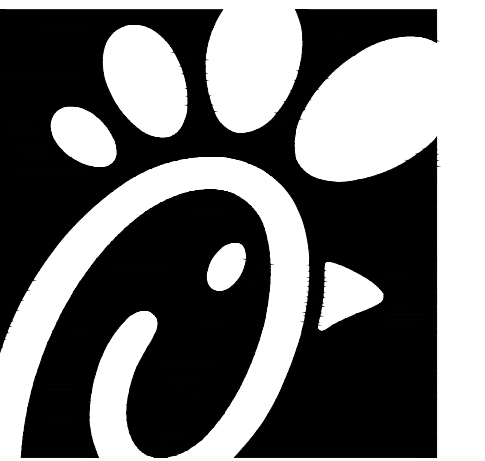
DEMOLITION KEY NOTES

- ① DEMOLISH EXISTING HOOD, ALL ASSOCIATED GREASE DUCT, CAPTURE JET FAN AND DIFFUSER (IF EXISTING), EXHAUST FAN, AND ITS ASSOCIATED ROOF CURB. PATCH AND REPAIR ROOF TO MATCH SURROUNDING CONSTRUCTION.
- ② EXISTING REMOTE TEMPERATURE AND/OR REMOTE HUMIDITY SENSORS TO BE REPLACED WITH NEW. DEMOLISH ASSOCIATED CONTROL WIRING. SEE SHEET MJI FOR FURTHER INFORMATION.
- ③ EXISTING AC UNIT TO BE REPLACED WITH NEW AS SCHEDULED ON SHEET M3.1. UNLESS NOTED OTHERWISE, DEMOLISH ALL EXISTING UNIT CONTROLS (REMOTE TEMP. SENSOR, REMOTE HUMIDITY SENSOR, TSTAT, REMOTE SMOKE DETECTOR TEST/REST STATION, ETC.). EXISTING ROOF CURB AND SUPPLY & RETURN DUCT TO REMAIN. COVER CURB WEATHER-TIGHT FOR RE-USE.
- ④ DETACH AND DEMOLISH EXISTING AIR DEVICE. SECURE DUCT ABOVE CEILING GRID FOR RE-CONNECTION. SEE SHEET MJI FOR NEW CONNECTION.

DEMOLITION LEGEND	
	EXISTING EQUIPMENT, DUCT, AIR DEVICE ETC. TO REMAIN INTACT
	EQUIPMENT, DUCT, AIR DEVICE ETC. TO BE DEMOLISHED

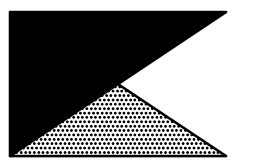
DEMOLITION NOTES

- ① CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- ② DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
- ③ DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED OR REMOVED PRIOR TO STARTING WORK. DE-ENERGIZED CIRCUITS SHALL BE PROTECTED WITH LOCKING DEVICES USING APPROPRIATE WARNING LABELS.
- ④ MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ROOF AFTER REMOVAL OF EXISTING MECHANICAL EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF PATCHING REQUIREMENTS.
- ⑤ EXCEPT WHERE NOTED, EXISTING REMOTE TEMPERATURE &/OR HUMIDITY SENSORS TO REMAIN. IF DURING RENOVATION PURPOSES CONTROLS SHALL BE TAKEN DOWN, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLING AND TO PROVIDE ANY ADDITIONAL WIRING NEEDED. VERIFY EXISTING UNIT CONTROLS ARE IN GOOD WORKING ORDER. IF NOT, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.
- ⑥ MECHANICAL CONTRACTOR SHALL REPLACE FILTERS FOR ALL RTUS AT END OF PROJECT AND PRIOR TO REOPENING. MC TO PROVIDE PROPOSAL TO FACILITIES MANAGER, CONSTRUCTION MANAGER, AND OPERATOR TO CORRECT EXISTING RTU PUNCH ITEMS IDENTIFIED BY HALTON.
- ⑦ CONTRACTOR SHALL INDICATE SALVAGE VALUE IN BID FOR ROOFTOP UNITS BEING REPLACED.

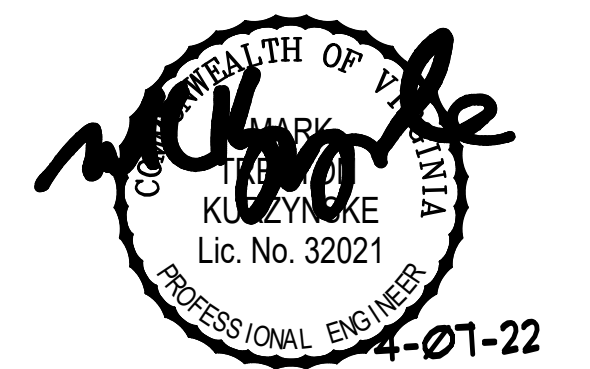


Chick-fil-A

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CHICK-FIL-A
STRATFORD HILLS
7125 FORREST HILL AVE
RICHMOND, VA 23225

FSR#01342

BUILDING TYPE / SIZE: S04E-156
RELEASE: v21.15

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
3	03/04/22	Owner Changes

CONSULTANT PROJECT # 21122.HF.R
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SHEET
MECHANICAL
DEMO PLAN
SHEET NUMBER

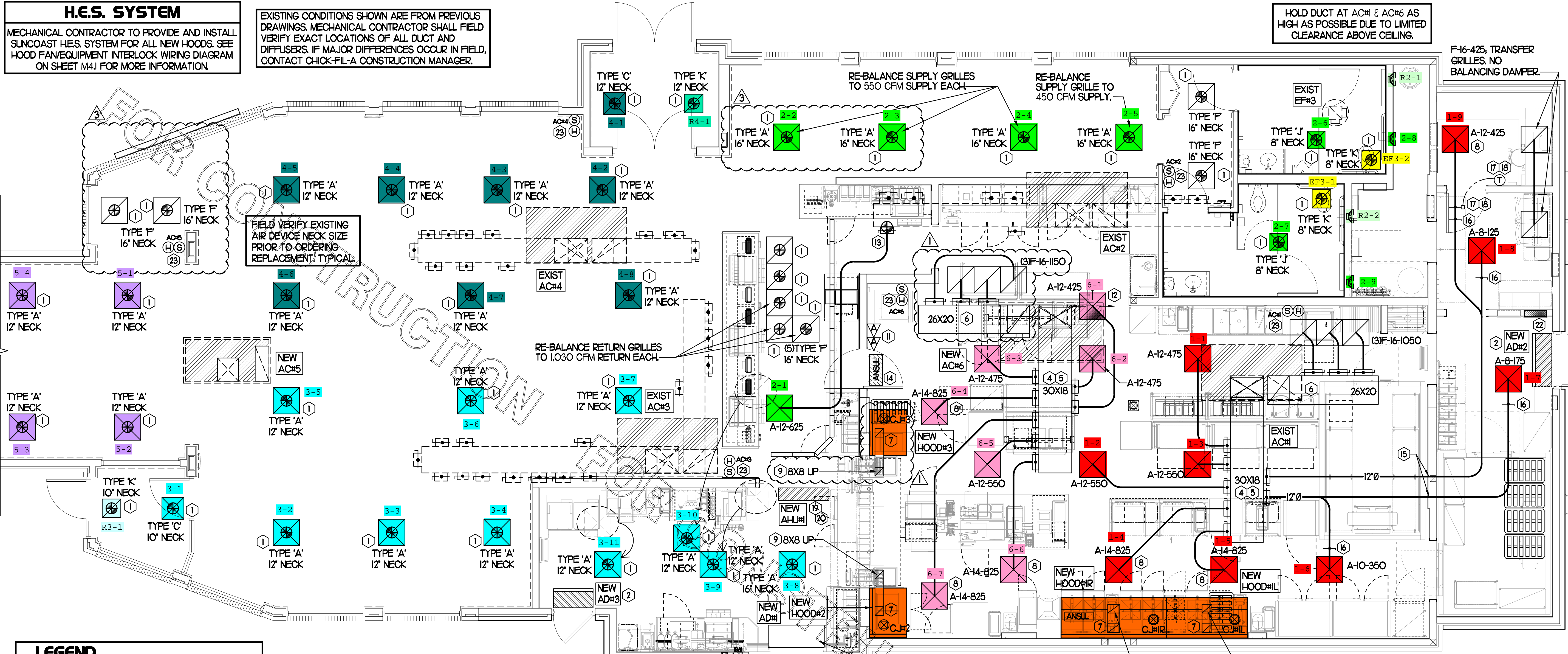
M0.1

CONSTRUCTION

H.E.S. SYSTEM
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL NEW HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON SHEET M4.I FOR MORE INFORMATION.

EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND DIFFUSERS. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.

HOLD DUCT AT AC#1 & AC#6 AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE ABOVE CEILING.



LEGEND

A-12-400	TYPE - NECK SIZE - CFM
+	SPIN-IN FITTING, MVD, NO SCOOP
⊙	REMOTE TEMPERATURE SENSOR
⊕	REMOTE HUMIDITY SENSOR
⊠	SMOKE DETECTOR
△	GREASE ACCESS DOOR TYPE
→	DIRECTION OF THROW
①	KEY NOTE REFERENCE
⊕	EXISTING START COLLAR
⊕	EXISTING RUNNOUT TO REMAIN
⊕	EXISTING RETURN/EXHAUST (TYP)
⊕	EXISTING SUPPLY DIFFUSER (TYP)
⊕	NEW RETURN/EXHAUST, UNO. (TYP)
⊕	NEW SUPPLY DIFFUSER, UNO. (TYP)
⊕	NEW DUCT (TYP)
⊕	SMOKE DETECTOR TEST/RESET STATION

SHEET NOTES

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- REFER TO ELEVATIONS ON M2.I AND HOOD DETAILS ON M.H.I FOR CAPTURE-JET FANS DUCTING REQUIREMENTS.
- HARDPIPE SHALL BE USED FOR ALL TAKE-OFFS EXCEPT WHERE ALLOWED BY DETAIL I/M.3.I. USE OF FLEXIBLE DUCT SHALL BE LIMITED TO THOSE SITUATIONS WHERE NO OTHER MEANS TO ACCOMPLISH ROUTING IS POSSIBLE.
- COORDINATE NEW WORK WITH EXISTING CONDUITS, STRUCTURE AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR TO NOTIFY DESIGN TEAM WITHOUT DELAY IF ACTUAL LOCATION OF EXISTING MECHANICAL EQUIPMENT DOES NOT MATCH FLOOR PLAN.
- MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THIS PLAN & IN SCHEDULES ON SHEET M3.I. IF AIRFLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER. TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER.

KEY NOTES (THIS SHEET ONLY)

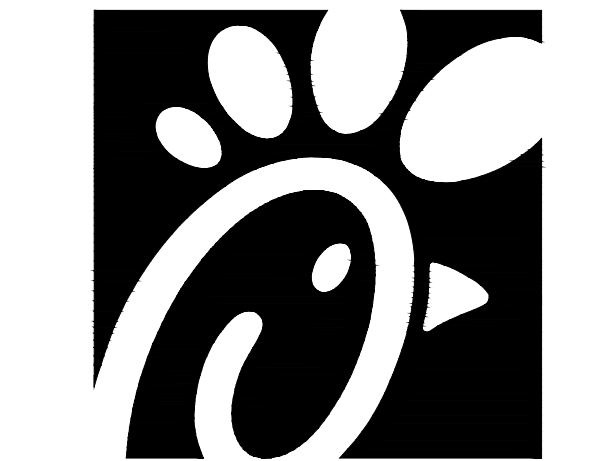
- CONNECT NEW AIR DEVICE TO EXISTING TAKE-OFF. IF NECESSARY, MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW DUCT IN ORDER TO MAKE CONNECTION TO AIR DEVICE IN NEW LOCATION. ANY FLEX DUCT USED SHALL NOT BE LONGER THAN 4'-0". SEE DETAIL I/M.3.I. COORDINATE AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- NOT USED.
- BRANCH TAKE-OFFS SHALL NOT BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. PROVIDE TURNING VANES IN ELBOWS, INCLUDING THE SUPPLY AIR DROP FROM UNIT.
- TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. NO TURNING VANES IN ELBOW.
- HALTON MED DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. REFER TO SHEET M2.I AND M.H.I FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- GREASE DUCT UP THRU ROOF FROM FULL SIZE OF MED COLLAR. OFFSETS THRU ROOF NOT TO BE GREATER THAN 45 DEGREES. SEE SHEET M.I.2 FOR CONTINUATION.
- NOT USED.
- LOCATE NEW SMOKE DETECTOR TEST/RESET STATION FOR NEW AC#6 ON WALL WITH OTHERS AND REPLACE EXISTING SMOKE DETECTOR TEST/RESET STATION FOR AC#5. CONTACT SUNCOAST ENVIRONMENTAL CONTROLS AT 1-877-544-6679 TO PURCHASE THE NEW SMOKE DETECTOR TEST/RESET STATIONS.
- MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON THE SHADED SIDE.
- PROVIDE & INSTALL NEW SPIN-IN COLLAR AND ROUTE NEW DUCT TO NEW GRILLE AS SHOWN.
- ANSUL UTILITY CABINET. LOCATE TOP OF CABINET 0'-2" BELOW CEILING. COORDINATE FINAL MOUNTING LOCATION WITH KITCHEN EQUIPMENT.
- ROUTE DUCT BETWEEN WALL STUDS ABOVE CEILING. COORDINATE WITH ARCH AND STRUCTURAL FOR EXACT LOCATION. USE 1" WRAP AT WALL PENETRATION.
- RUSKIN MODEL MDRS25 OR EQUIVALENT MANUAL VOLUME DAMPER WITH LOCKING QUADRANT HANDLE.

- YOUNG REGULATOR 12" MODEL 2010 ROUND ZONE DAMPER WITH MODEL T-312CE AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT TSTAT AT 4'-0" AFF. POWER OPEN/SRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM AIRFLOW. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0101. FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
- PROVIDE 120V/24V 50 VA TRANSFORMER TO SERVE YOUNG REGULATOR ZONE DAMPER ACTUATOR AND THERMOSTAT. POWER TRANSFORMER FROM 120V POWER CIRCUIT THAT REMAINS LIVE 24/7. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM. SEE DETAIL ON SHEET M4.I FOR MORE INFORMATION.
- MOUNT AIR HANDLER ON OVER-HEAD WALL ABOVE CASED OPENING. MOUNT UNIT AT 12" ABOVE CASED OPENING. ROUTE REFRIGERANT PIPING ABOVE CEILING AND UP THRU ROOF TO CONDENSING UNIT, CU#1. SEE SHEET M.I.2 FOR CONDENSING UNIT LOCATION. REFRIGERANT PIPING BELOW ROOF SHALL BE HIDDEN WITHIN WALLS AND CEILINGS.
- ROUTE CONDENSATE FROM ALU#1 TO TERMINATE INTO FLOOR DRAIN LOCATED BEHIND ICE MAKER IN DRIVE THRU. COORDINATE EXACT LOCATION OF DRAIN WITH PLUMBING PLANS. CONDENSATE PIPING SHALL BE TYPE K COPPER WITH 1/2" ARMAFLEX INSULATION. CONDENSATE MUST SLOPE MIN 1/8" PER FOOT TO TERMINATION POINT. CONTRACTOR SHALL INSTALL A CONDENSATE LIFT PUMP IN ORDER TO ROUTE CONDENSATE ABOVE CEILING.
- MOUNT AH-U#1 THERMOSTAT ON WALL NEXT TO AD#1 REMOTE WALL SWITCHES. SEE SCHEDULE ON SHEET M3.I FOR INTERLOCK WITH T500 PANEL.
- ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL NEW CFA T500 TEMP CONTROL PANEL WITH AUTOMATIC TIMER FOR LIGHTING CONTROLS AND 6-THERMOSTAT TEMP CONTROL CABINET. COORDINATE WITH ELECTRICAL CONTRACTOR FOR NEW LOCATION OF TEMP CONTROL CABINET. CONTROL WIRING TERMINATIONS BETWEEN NEW THERMOSTATS, NEW SENSORS, AND NEW/EXISTING RTUS BY MECHANICAL CONTRACTOR. REFER TO WIRING DIAGRAM ON SHEET M4.I.
- MOUNT NEW REMOTE TEMP SENSOR AND NEW LENOX HUMIDITY SENSOR FOR ROOFTOP UNIT AS NOTED BELOW (OR ABOVE WAINSCOTING IF APPLICABLE). ROUTE NEW WIRING FOR NEW REMOTE TEMP SENSOR TO NEW TSTAT IN CFA T500 PANEL. ROUTE NEW WIRING FOR NEW LENOX HUMIDITY SENSOR TO UNIT ON ROOF. REFER TO WIRING DIAGRAM ON SHEET M4.I.
 - AC#1 & AC#6: MOUNT NEW REMOTE TEMP SENSOR ON WALL AT 5'-8" AFF. COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH KITCHEN EQUIPMENT, SHELVING, AND ELECTRICAL. MOUNT NEW LENOX HUMIDITY SENSOR DIRECTLY ABOVE REMOTE TEMP SENSOR.
 - AC#2, AC#3, & AC#5: MOUNT NEW REMOTE TEMP SENSOR ON WALL AT 5'-0" AFF. MOUNT NEW LENOX HUMIDITY SENSOR DIRECTLY ABOVE REMOTE TEMP SENSOR.
 - AC#4: MOUNT NEW SENSORS IN THE SAME LOCATION AS DEMOLISHED SENSORS.

TOTAL AIR BALANCE SCHEDULE

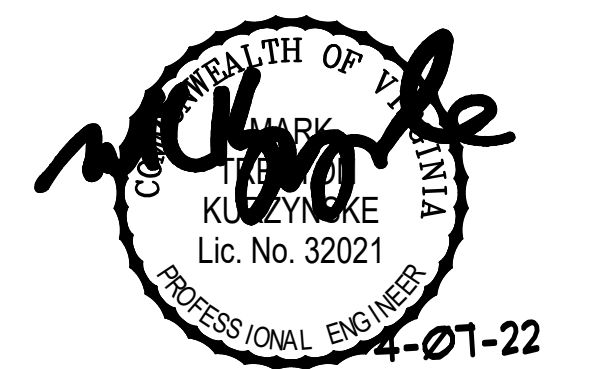
EQUIPMENT MARK	AC#1 (EXIST)	AC#2 (EXIST)	AC#3 (EXIST)	AC#4 (EXIST)	AC#5 (NEW)	AC#6 (NEW)	EF#1 (NEW)	EF#2 (NEW)	EF#3 (EXIST)	TOTAL
SERVES	KITCHEN	SIDE DINING	MAIN DINING	MAIN DINING	DINING	KITCHEN	HOOD#1	HOOD#2	REST-ROOMS	
SUPPLY AIR CFM	4,400	3,150	4,000	2,765	2,000	4,400				20,715
RETURN AIR CFM	3,150	2,400	3,300	2,165	1,700	3,450				16,165
OUTSIDE AIR CFM	1,250	750	700	600	300	950				+4,550
EXHAUST CFM							1,912	1,402	500	-3,814
PRESSURIZATION										+736
REMARKS	ADJUST AND VERIFY BALANCE OF ALL HVAC EQUIPMENT IS AS SHOWN IN ORDER TO MAINTAIN BUILDING AIR BALANCE.									

MECHANICAL FLOOR PLAN
SCALE: 1/4"=1'-0"



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CHICK-FIL-A
STRATFORD HILLS
7125 FORREST HILL AVE
RICHMOND, VA 23225

FSR#01342
BUILDING TYPE / SIZE: S04E-156
RELEASE: v21.15

REVISION SCHEDULE

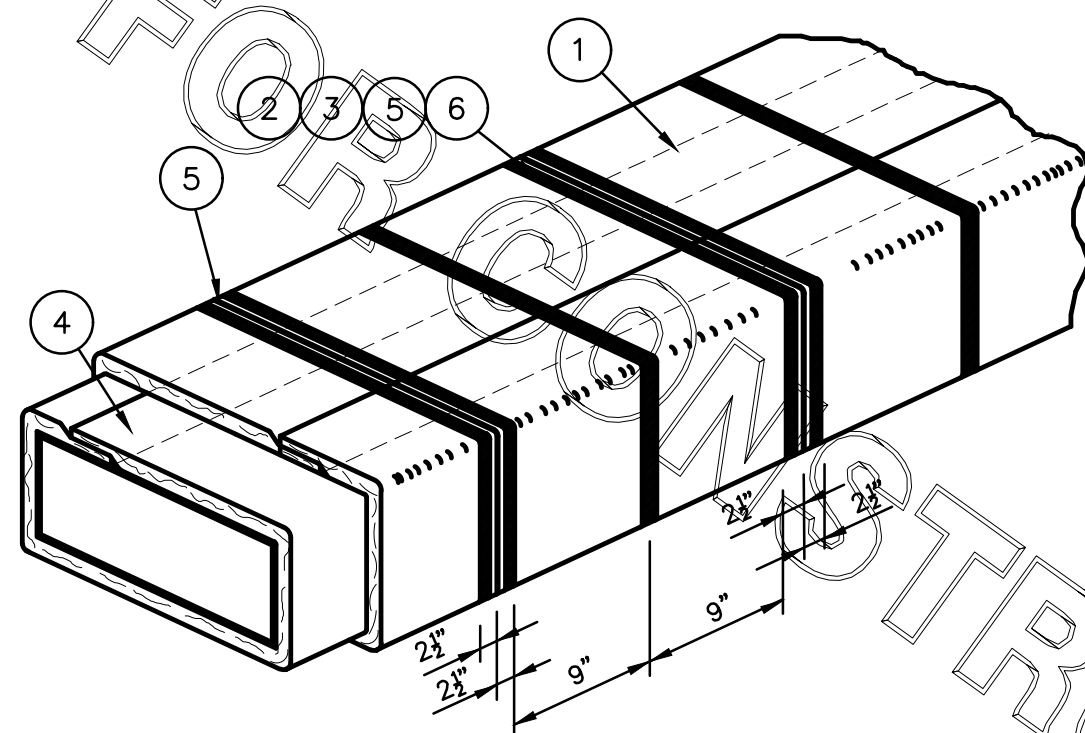
NO.	DATE	DESCRIPTION
1	11/10/21	Equipment Update
3	03/04/22	Owner Changes

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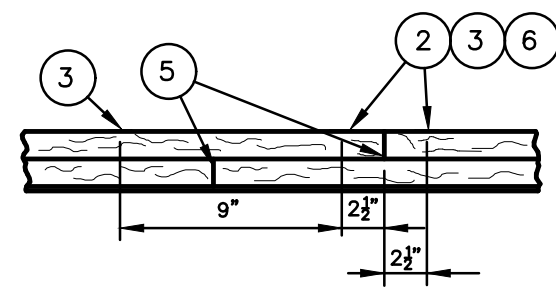
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SHEET
MECHANICAL FLOOR PLAN
SHEET NUMBER

M1.1

FyreWrap® Elite™ 1.5 Duct Insulation
 Commercial Kitchen Grease Duct System
 ASTM E 2336/ICCES AC101 System
 1 and 2 Hour Fire-Rated Enclosure, Shaft Alternative
 Zero Clearance to Combustibles
 Intertek Design No. UNI/BI 120-02
 Butt Joint System (Both Layers, Max. 24"x24" Duct)



INSTALLATION METHOD:



LEGEND:

- 1 FYREWAP ELITE 1.5 DUCT INSULATION, TWO LAYERS (EACH 1 1/2" TOTAL THICKNESS - 3")
- 2 FILAMENT TAPE (TEMPORARY HOLD)
- 3 1/2" CARBON OR SS BANDING STRAPS (PERMANENT HOLD)
- 4 3" MINIMUM LONGITUDINAL OVERLAP
- 5 1" COMPRESSED BUTT JOINT
- 6 3" WIDE ALUMINUM FOIL TAPE AT 90 DEGREE TRANSVERSE BUTT JOINTS

Butt-Joint
Adjacent Blanket Pieces

Revisions	Comments

SUBJECT: _____
 LOCATION: _____
 BLDG. NO.: _____ DATE: 04-05-2018 DRAWING NO. FP-693
 DRAWN: SARJATA APPROVAL: _____ PROJECT NO. _____
 SCALE: N.T.S. SIZE: _____

KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE R-102 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER SELECTED AND HIRED BY HALTON. COST FOR ANSUL 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, NO EXCEPTIONS ALLOWED. 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 FYREWAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.
10. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON SHEET M4.1 FOR MORE INFORMATION.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP • TAB PORT	CAPTURE JET CFM & SP.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#L	832	0.13'	55 • 0.30'	BACK SHELF	8'X9'	74"	37"	38"	HALTON	KVL-2	I
HOOD#R	1,080	0.13'	72 • 0.30'	BACK SHELF	8'X11'	96"	37"	38"	HALTON	KVL-2	I
HOOD#2	701	0.30'	30 • 0.29'	BACK SHELF	8'X8'	45"	34"	38"	HALTON	KVL-C	I
HOOD#3	701	0.30'	30 • 0.29'	BACK SHELF	8'X8'	42"	34"	38"	HALTON	KVL-C	I

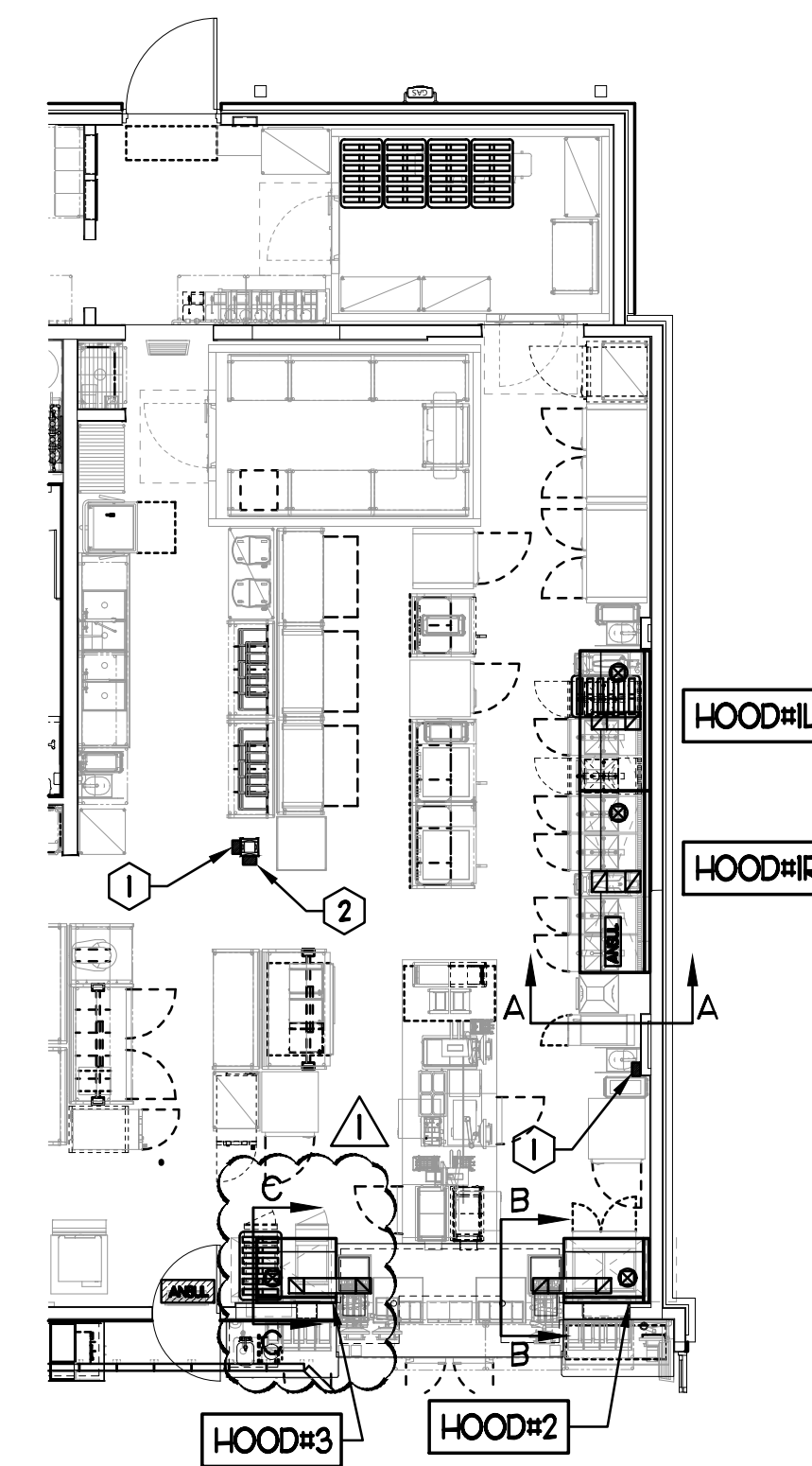
NOTES: DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).

REMARKS: I. HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEETS M4.1 AND M4.2. REFER TO SHOP DRAWINGS FOR HOOD OPTIONS AND CONSTRUCTION.

NOTE:
SEE ARCHITECTURAL PLANS
FOR HOOD LOCATIONS.

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.

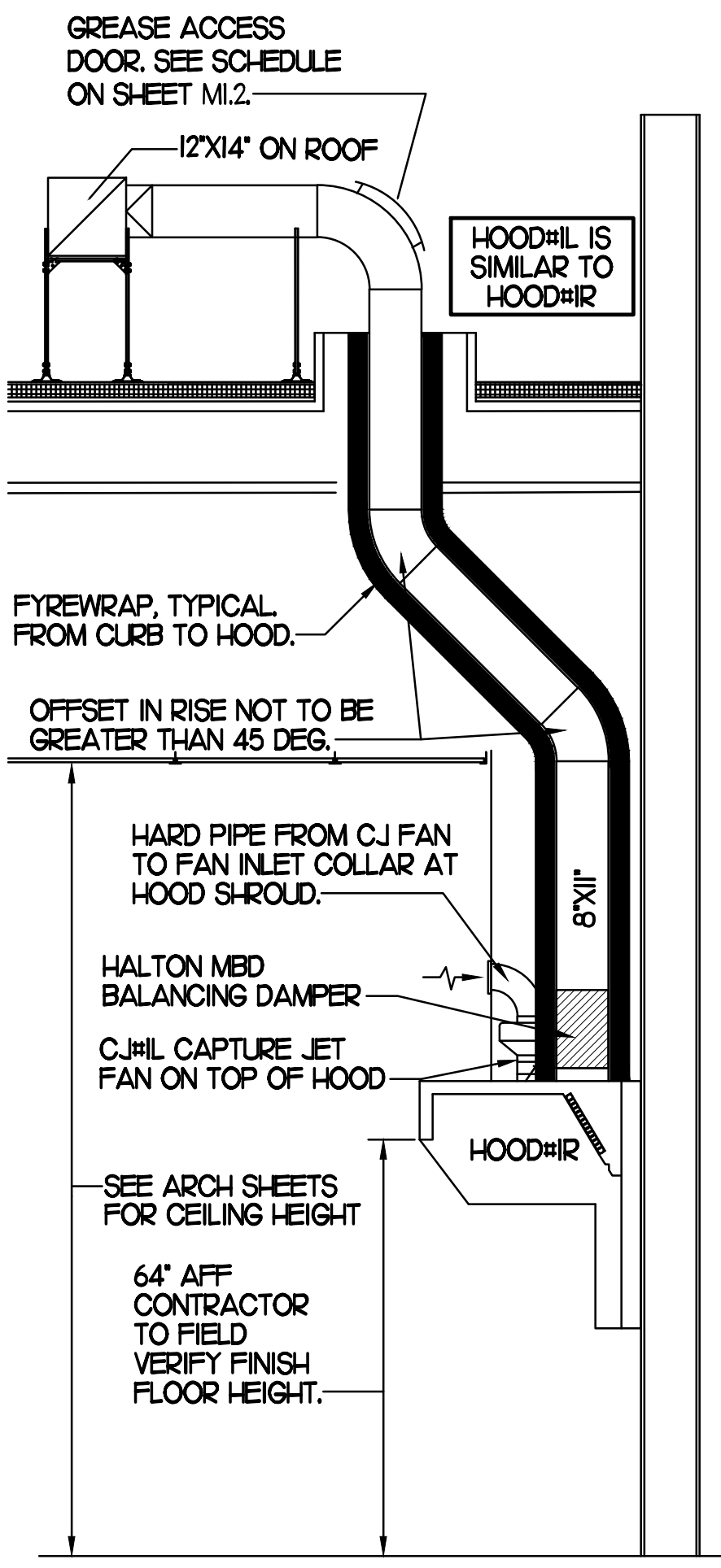


KEY NOTES

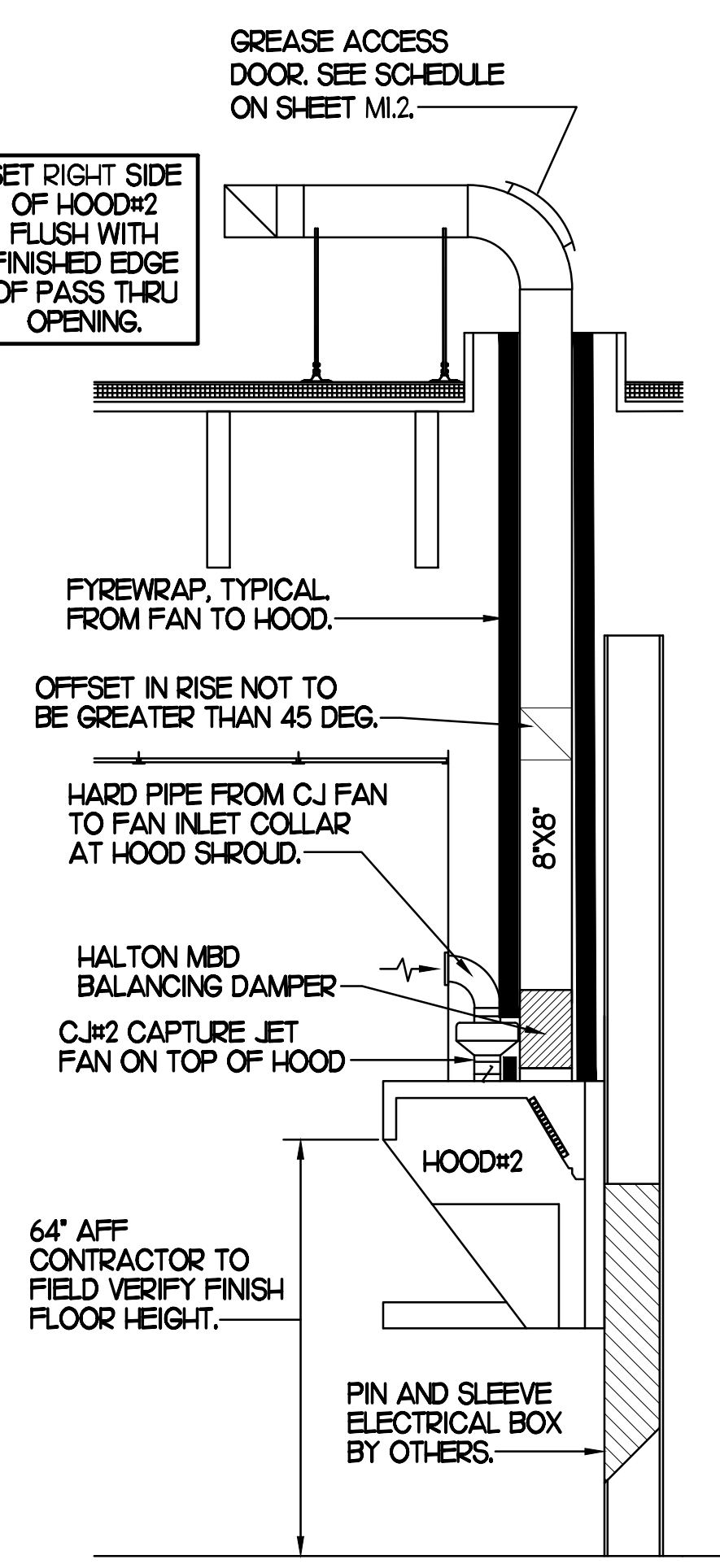
1. ANSUL PULL STATIONS SERVING HOOD#2 AND HOOD#3. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE WHITE BAKELITE LABEL WITH 1/4" HIGH LETTERS INDICATING THE HOODS SERVED, I.E. 'PASS-THRU HOODS'. BOTH PULL STATIONS SERVE THE SAME REMOTE MOUNTED ANSUL TANKS.
2. ANSUL PULL STATION SERVING HOOD#L AND HOOD#R. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE WHITE BAKELITE LABEL WITH 1/4" HIGH LETTERS INDICATING THE HOODS SERVED, I.E. 'MAIN COOKLINE HOODS'.

HOOD LAYOUT

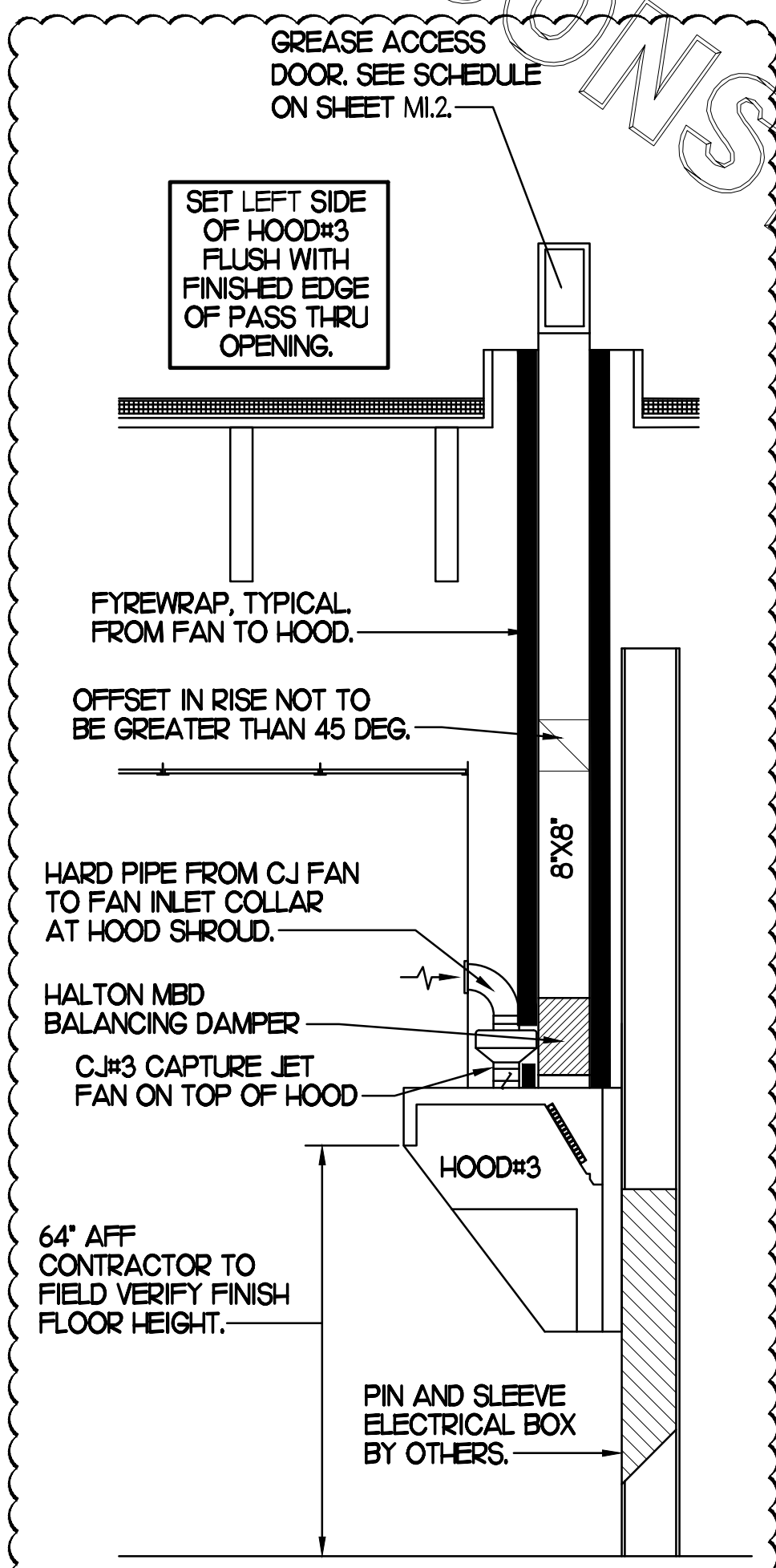
1/8"=1'-0"



SECTION "A-A"



SECTION "B-B"



SECTION "C-C"

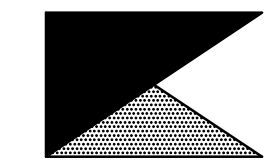
HOOD ELEVATIONS

3 NONE



Chick-fil-A

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CHICK-FIL-A
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FSR#01342

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RELEASE: v21.15

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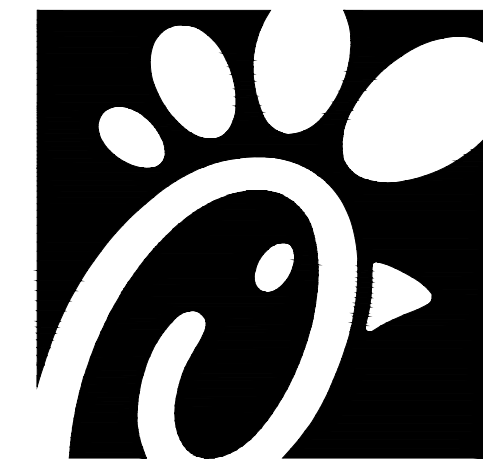
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SHEET HOOD DETAILS & SCHEDULES
SHEET NUMBER

M2.1

CONSTRUCTION

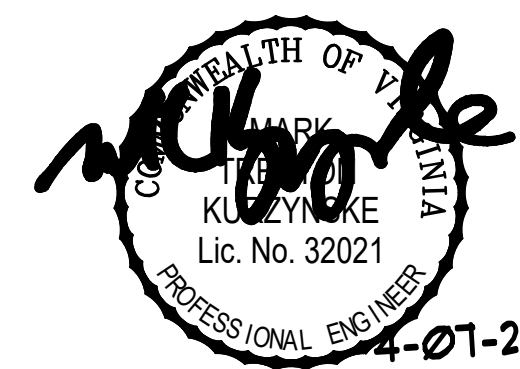


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4-01-22

CHICK-FIL-A
STRATFORD HILLS
7125 FORREST HILL AVE
RICHMOND, VA 23225

FSR#01342

BUILDING TYPE / SIZE: S04E-156
RELEASE: v21.15

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
4	04/07/22	CD Coordination

CONSULTANT PROJECT # 21122.HF.R
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SHEET HVAC CONTROLS

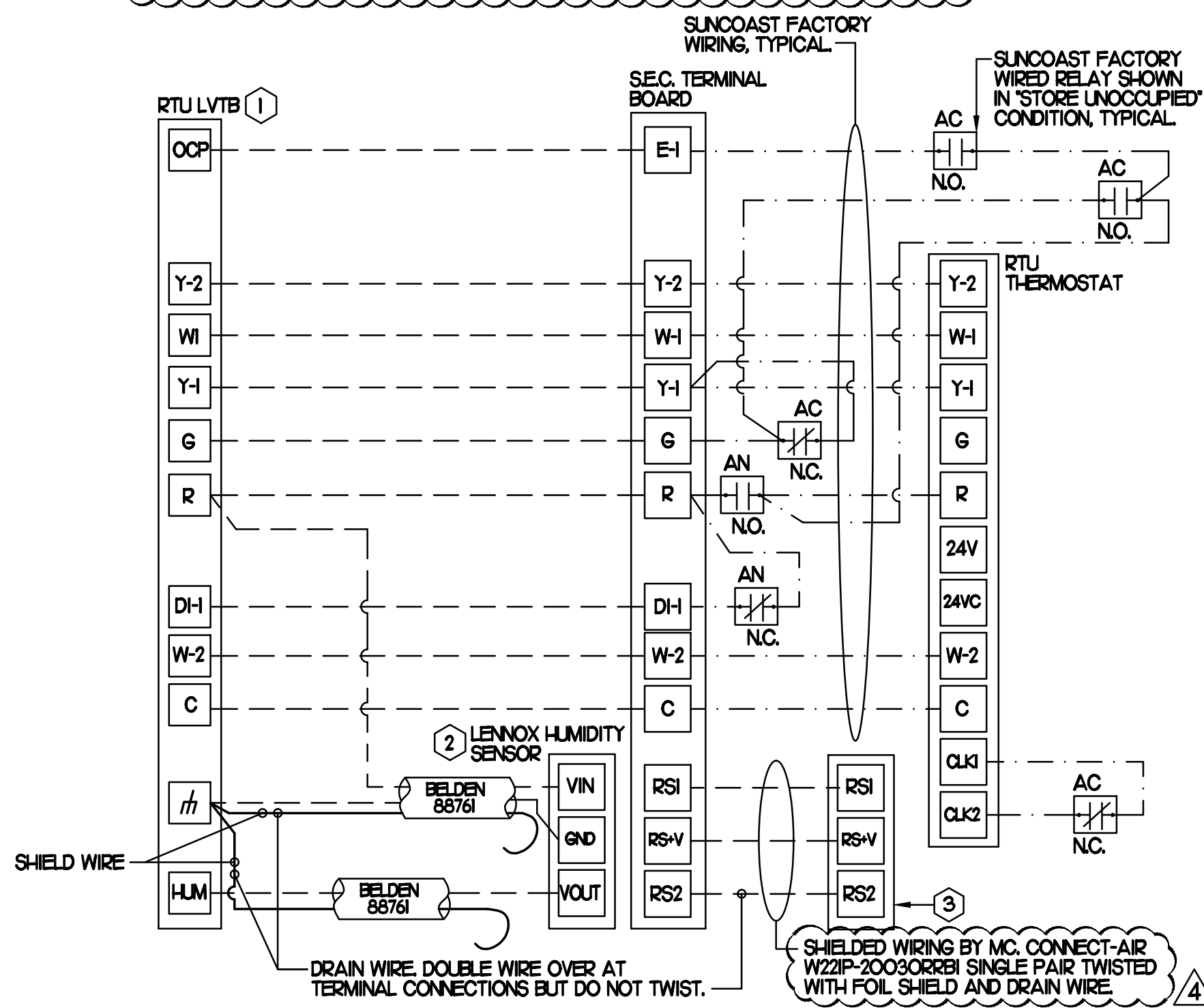
SHEET NUMBER

M4.1

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

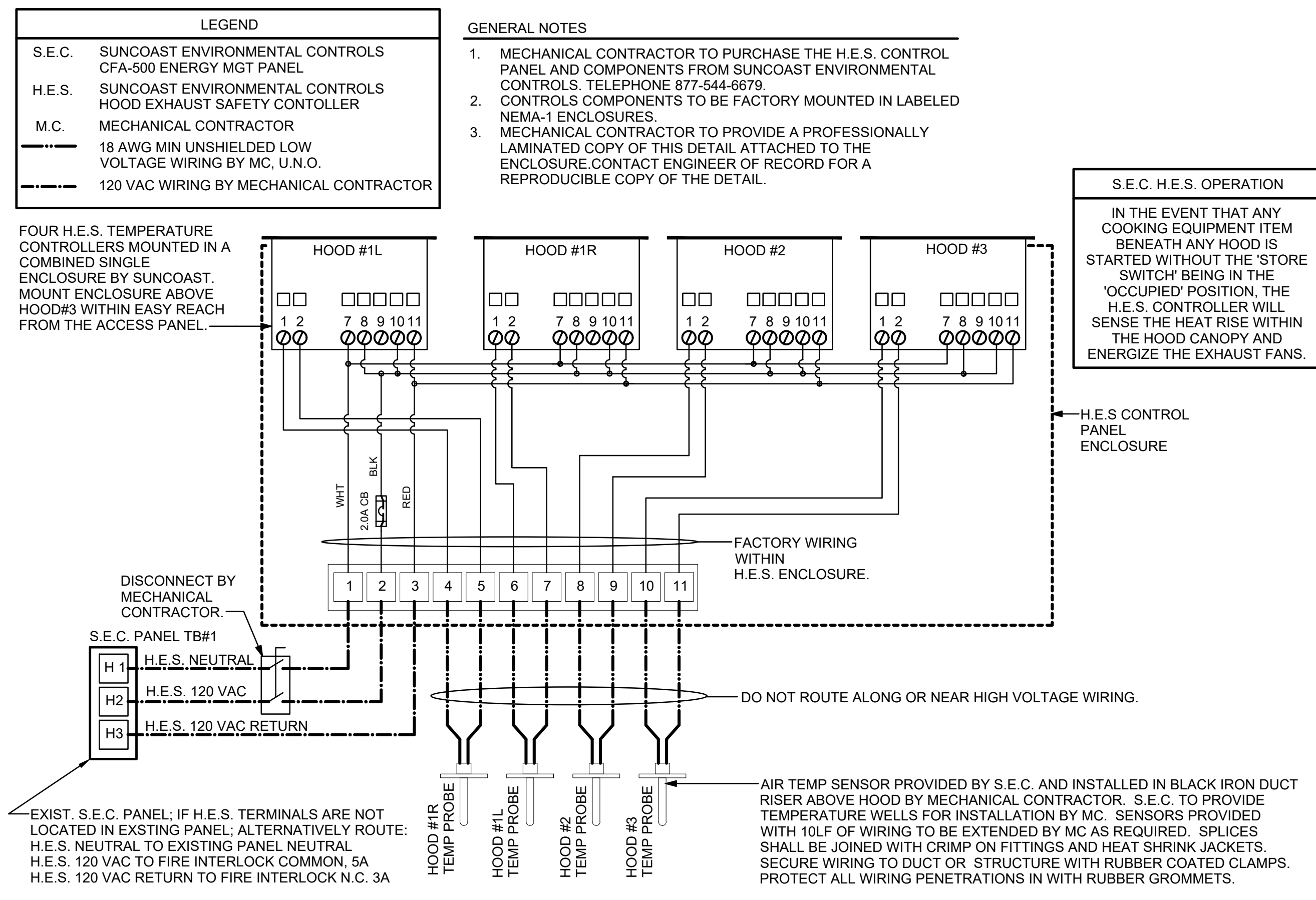
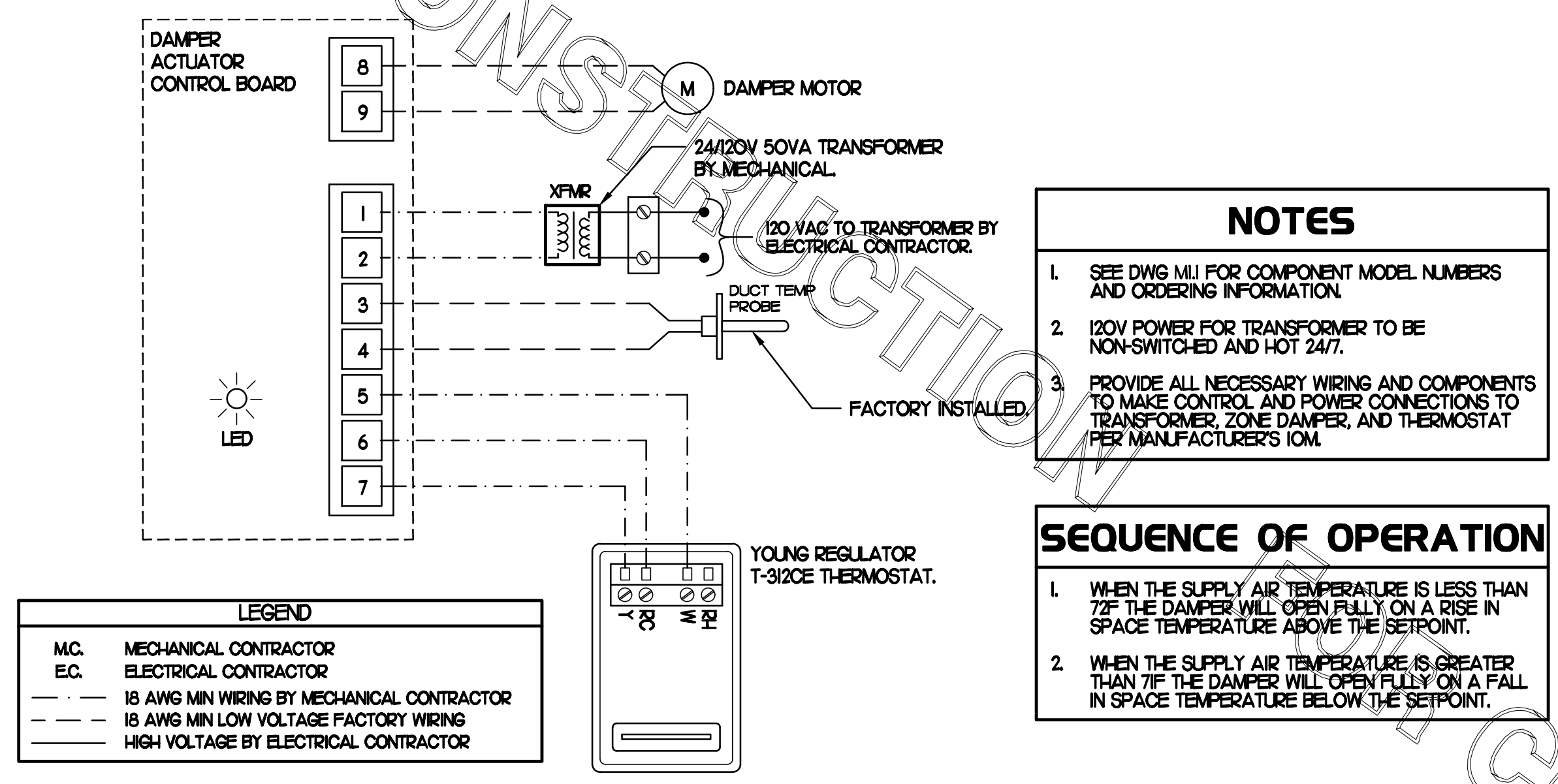
- NOTES:**
- FOR ALL RTUS EXCEPT AT KITCHEN RTUS, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #65 TO ZERO (#58 ON LCH UNITS). ON OLDER BOARDS THIS IS ECTO PARAMETER 3.01 FOR LCH UNITS OR ECTO 2.01 FOR LCH UNITS. THIS WILL CAUSE THE O.A. DAMPER TO OPEN ON 'OCCUPIED' START. AT KITCHEN RTUS LCH TYPE LEAVE THE SETTING AT THE DEFAULT VALUE SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 60 MINUTES AFTER 'OCCUPIED' START. AT KITCHEN RTUS (LCH TYPE) CHANGE THE VALUE TO 5400 SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 90 MINUTES AFTER 'OCCUPIED' START.
 - MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
 - SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
 - AT HUMIDITROL RTUS SET PRODIGY-M3 BOARD CONTROL PARAMETER #106 FOR DEHUMIDIFICATION SET POINT TO A VALUE OF 60 (#60 RH).
 - AT HUMIDITROL RTUS, SET PRODIGY-M3 BOARD CONTROL PARAMETER #107 FOR DEHUMIDIFICATION MODE DEAD BAND TO A VALUE OF 2 (#2 RH).
 - SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
 - FOR MS4V UNITS, SET THE MS4V LOW SPEED SETTING TO THE SAME VALUE AS THE HIGH SPEED SETTING AFTER TAB IS COMPLETE.
 - PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/2" HIGH WHITE LETTERING ON BLACK BACKGROUND, IE: "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY TO DEVICE.
- KEYED NOTES:**
- LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
 - HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH TWO SEPARATE RUNS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB4, LEAVE OPEN AT SENSOR.
 - NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. FIELD CALIBRATE EACH SENSOR.

- LEGEND**
- S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
 - 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. DE-ENERGIZED WHEN ANSL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
 - 22 AWG MIN LOW VOLTAGE WIRING BY MC. UNO. USE CONNECT-AIR SINGLE PAIR TWISTED WITH FOIL SHIELD AND DRAIN WIRE FOR TEMPERATURE SENSORS. (NOT FOR HUMIDITY SENSORS)
 - LOW VOLTAGE WIRING BY S.E.C.
 - LINE VOLTAGE BY ELECTRICIAN OR S.E.C.

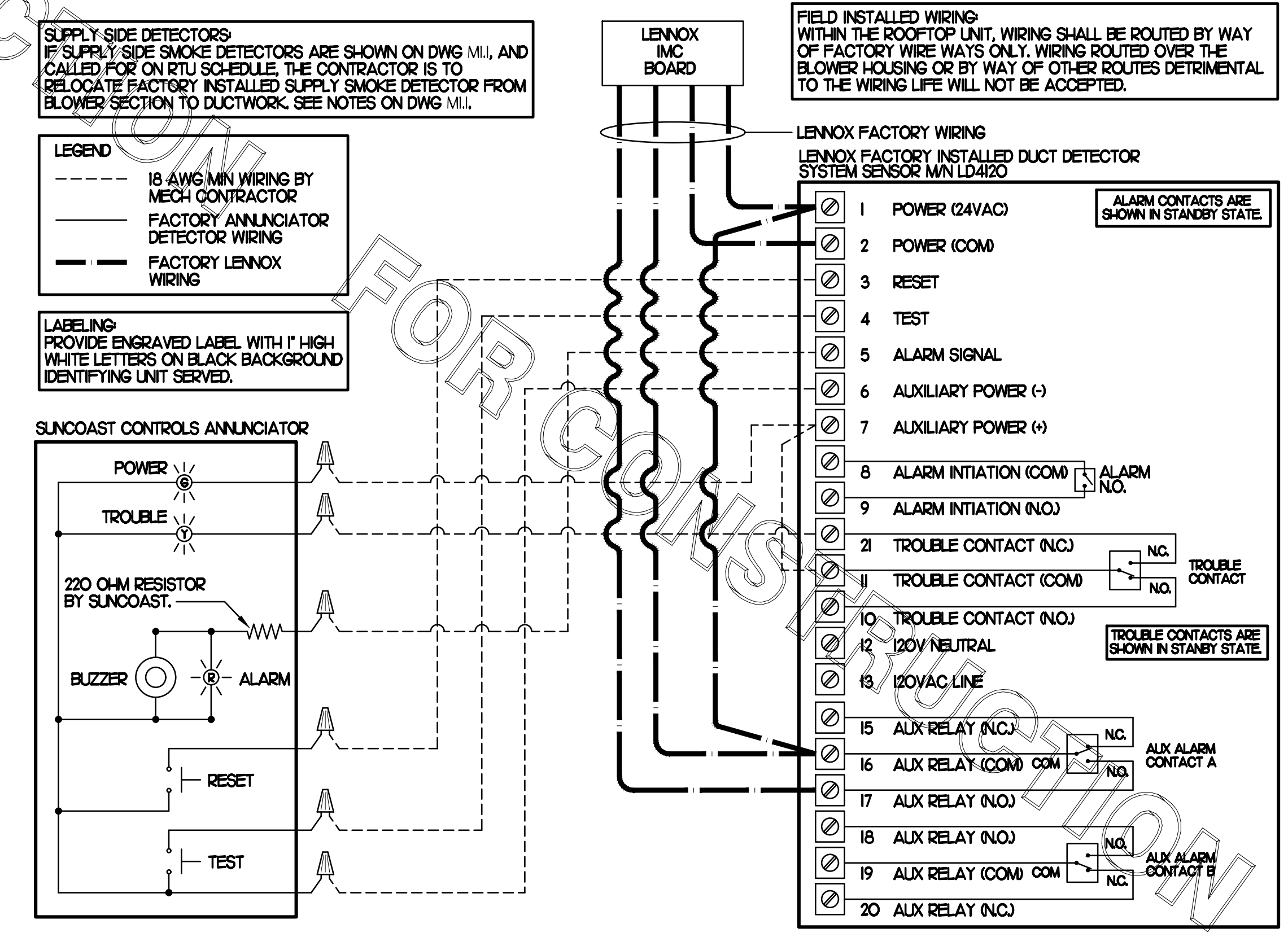


2 ROOFTOP UNIT CONTROL WIRING - LENNOX

4 OFFICE VAV DAMPER AND TSTAT



3 HOOD EXHAUST SAFETY SWITCH (H.E.S.) WIRING DIAGRAM



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

FOR CONSTRUCTION

FOR CONSTRUCTION

FOR CONSTRUCTION

E

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A

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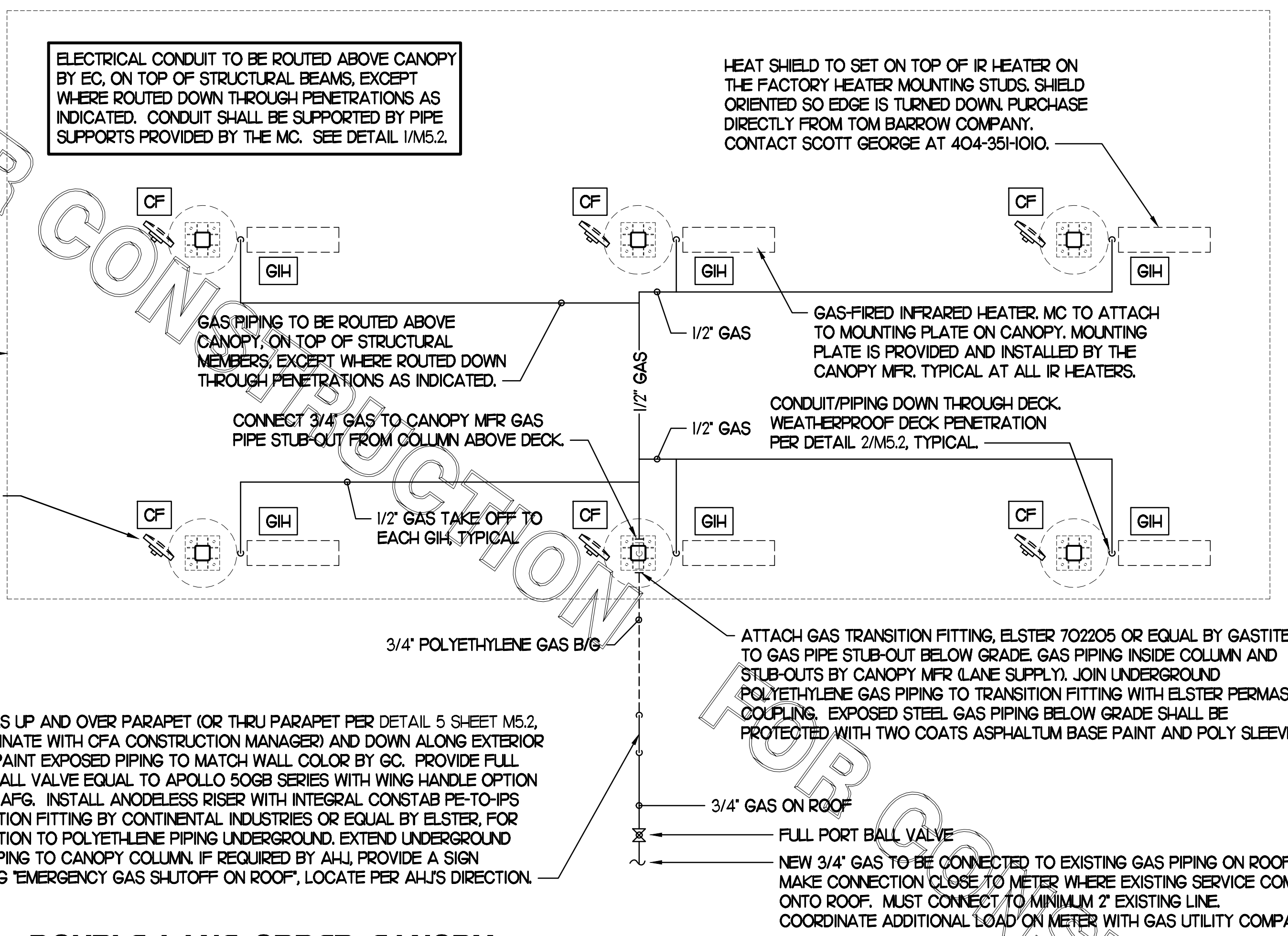
B

A

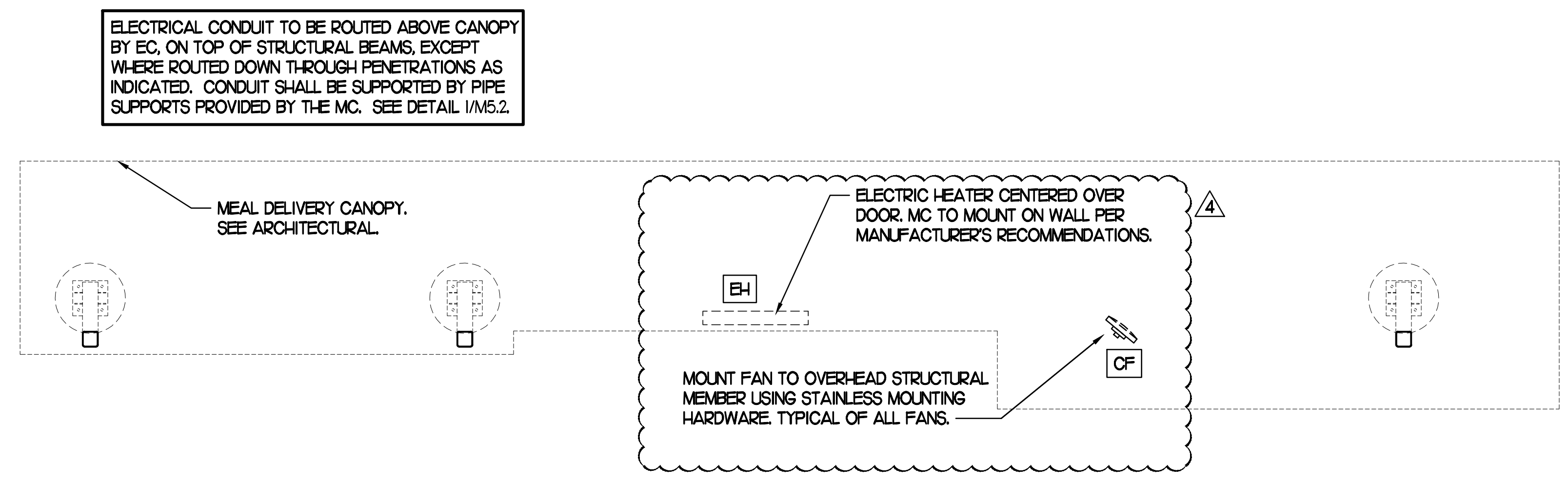
LEGEND			
CF#1	CIRCULATING FAN #1 (TYP.)	B/G	BELOW GRADE
GIH#1	GAS INFRARED HEATER #1 (TYP.)	EC	ELECTRICAL CONTRACTOR
---	NEW GAS PIPING ABOVE GRADE	MC	MECHANICAL CONTRACTOR
---	NEW GAS PIPING BELOW GRADE	---	CONDUIT ABOVE CANOPY DECK

GENERAL NOTES

- COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
- COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
- EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
- ACTUAL NUMBER OF GAS INFRARED HEATERS & COOLING FANS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
- CONTROL WIRING FOR HEATERS BY EC. COORDINATE WIRE GAUGE WITH EC. SEE ELECTRICAL AND CONTROLS DRAWINGS, TYP.



1 HVAC PLAN - DOUBLE LANE ORDER CANOPY



2 HVAC PLAN - MEAL DELIVERY CANOPY



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 Atlanta, Georgia 30349

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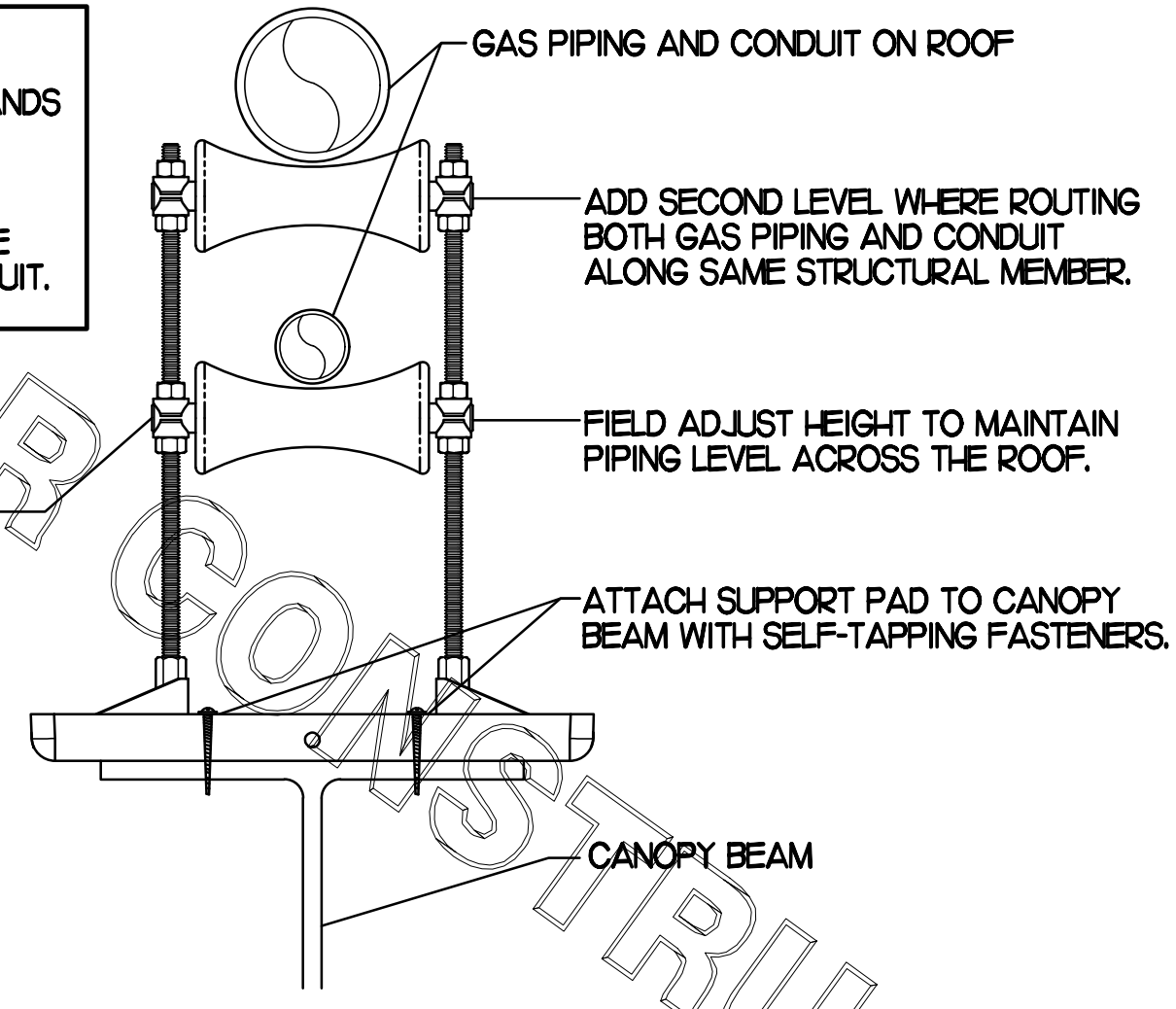
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 SHEET
 CANOPY HVAC
 PLANS
 SHEET NUMBER

M5.1

- NOTES:
1. DISTANCE BETWEEN PIPESTANDS NOT TO EXCEED 8'-0".
 2. MC TO PROVIDE DUAL LEVEL SUPPORT TO ACCOMMODATE BOTH GAS PIPING AND CONDUIT.

MIRO INDUSTRIES PIPESTAND.



1 PIPING SUPPORT ON CANOPY

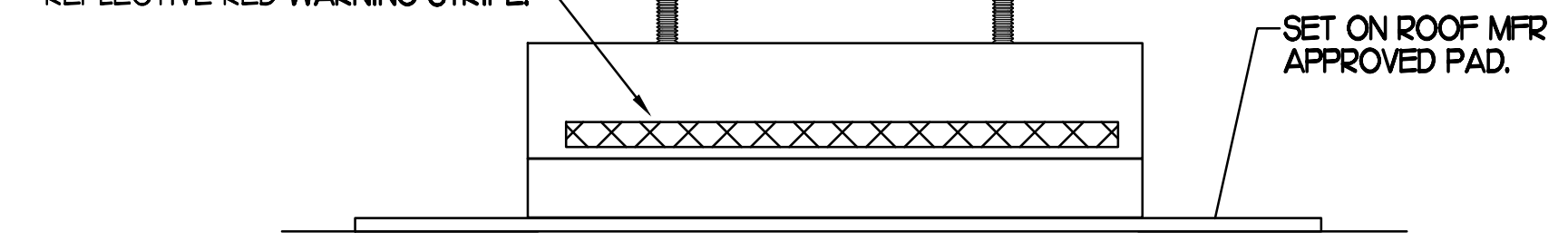
NO SCALE

- NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING PIPING FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 3. ENSURE GAS PIPING DOES 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.

DISTANCE BETWEEN PIPE STANDS NOT TO EXCEED 8'-0"

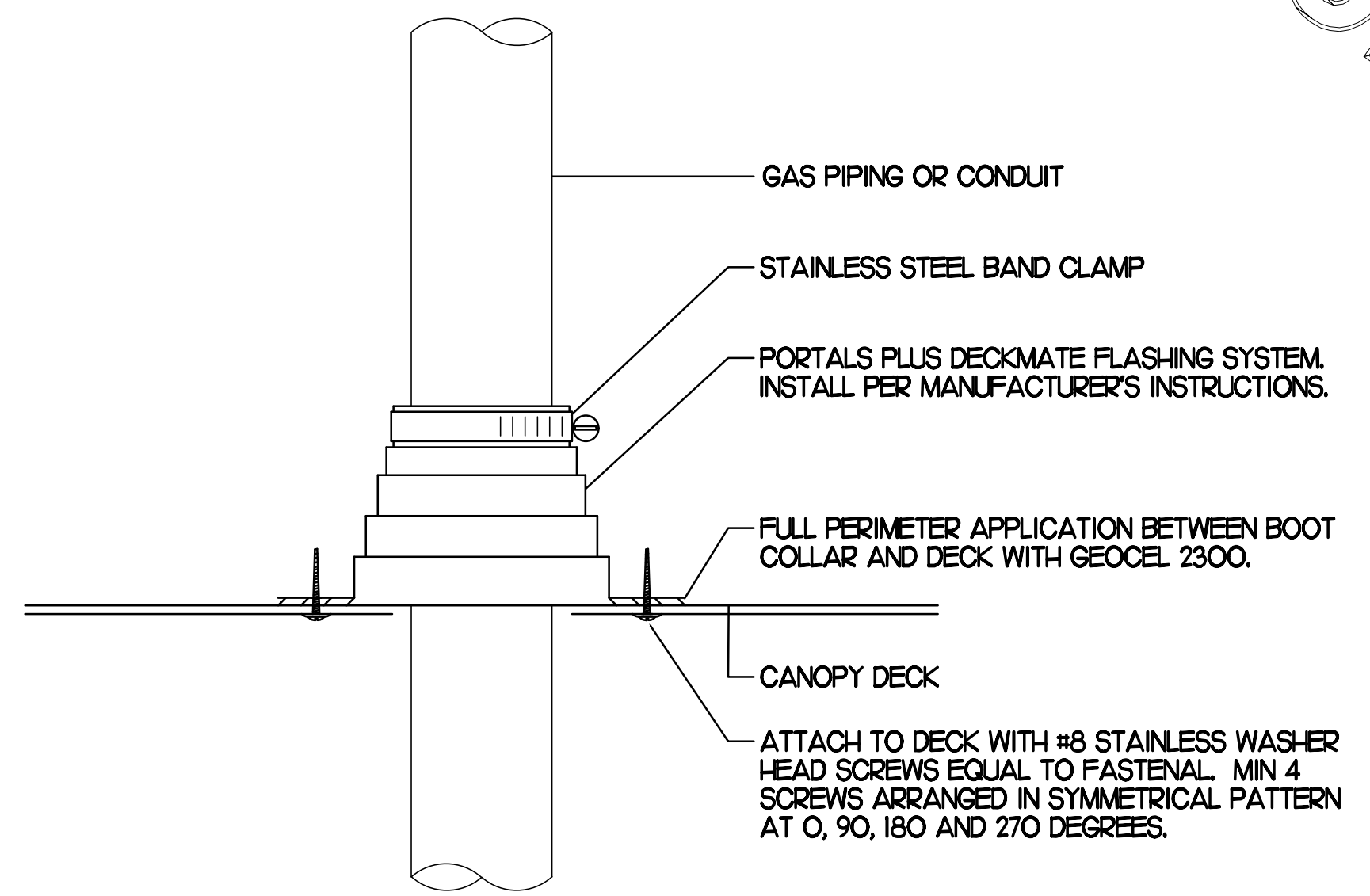
COOPER B-LINE DURA-BLOK DB SERIES SHOWN.

HEAVY DUTY 100% RECYCLED RUBBER BASE WITH FACTORY REFLECTIVE RED WARNING STRIPE.



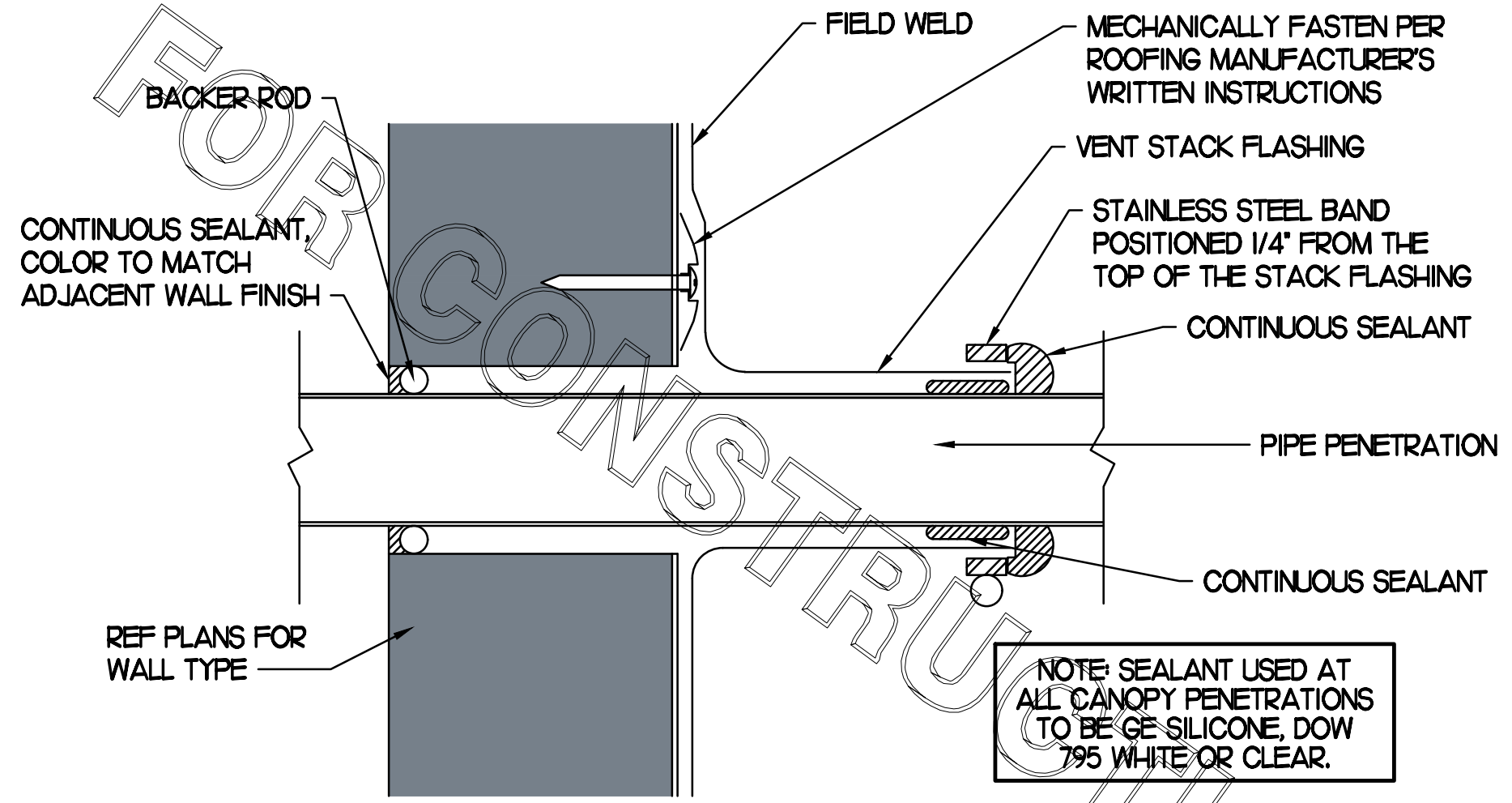
4 PIPING SUPPORT ON MAIN BLDG ROOF

NO SCALE



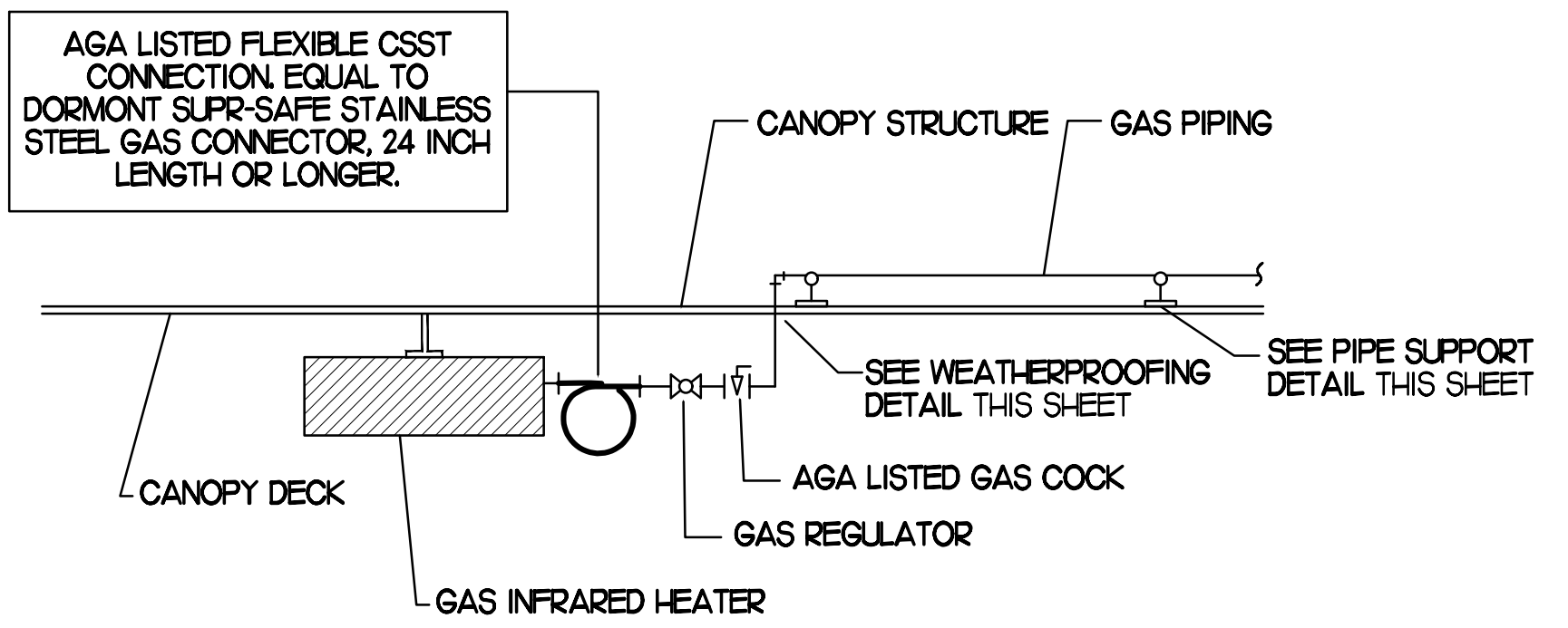
2 WEATHERPROOFING AT CANOPY PENETRATION

NO SCALE



5 PARAPET PENETRATION DETAIL

NO SCALE



3 GAS CONNECTION AT APPLIANCE

NO SCALE

BROMIC ELECTRIC HEATER SCHEDULE

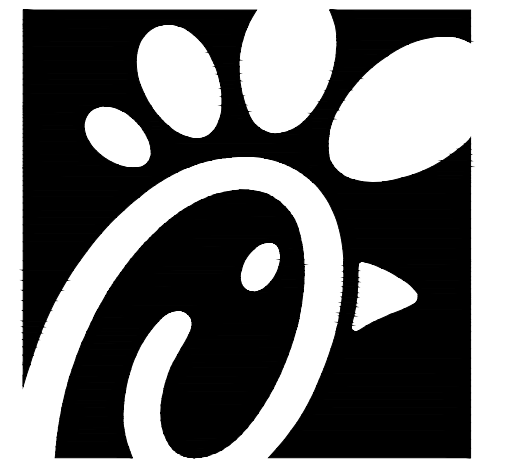
MARK	INPUT (KW)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
ALL EH	6.0	56"	8.5"	3.5"	BRACKET	BH0420005	BROMIC
NOTES	<ul style="list-style-type: none"> • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH BROMIC COMPANY FOR THE ELECTRIC HEATER PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ELECTRIC HEATERS DIRECTLY FROM BROMIC COMPANY. CONTACT BLAKE RUSSIE AT 858-381-4850, FOR PRICING AND AVAILABILITY. BROMIC HEATERS NOT PURCHASED THRU BROMIC COMPANY WILL NOT BE ACCEPTED. 						
REMARKS	<ol style="list-style-type: none"> 1. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. 2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. 3. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. 						

GAS FIRED INFRARED HEATER SCHEDULE

MARK	INPUT (MBH)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
ALL GH	50.0	48"	13"	10"	BRACKET	2352-NG	SCHWANK
REMARKS	<ol style="list-style-type: none"> 1. STEEL BURNER WITH CERAMIC BURNER TILES. 2. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING. 3. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING DOWNWARD, 12" Laterally FROM THE SIDE OF THE HEATER. 4. MOUNTING BRACKET PROVIDED AND INSTALLED BY CANOPY MFR. 5. PROVIDE HEAT SHIELD ABOVE EACH HEATER AT THE BOTTOM OF THE BRACKET. 						

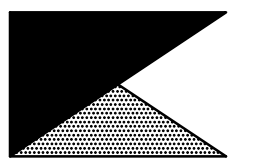
CIRCULATING FAN SCHEDULE

MARK	CFM	RPM	HP	MODEL	MANUFACTURER
REMARKS	<ol style="list-style-type: none"> 1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 2. 360 DEG. ROTATING HEAD HORIZONTALLY AND VERTICALLY. 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD. 4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. 5. FACTORY PRE-WIRED POWER CORD. 6. PROVIDE FACTORY WALL MOUNTING BRACKET. 7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" Laterally FROM THE FAN LOCATION. 8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. 9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION. 				

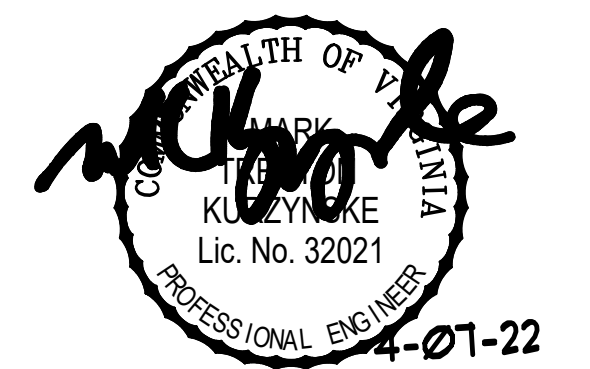


Chick-fil-A

Chick-fil-A
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Atlanta, Georgia 30349



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



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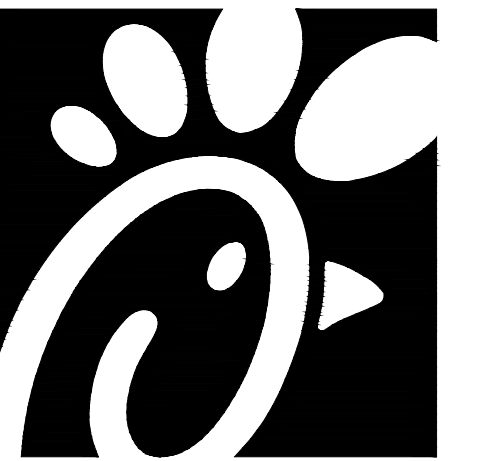
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SHEET CANOPY DETAILS & SCHEDULES
SHEET NUMBER

CONSTRUCTION

M5.2

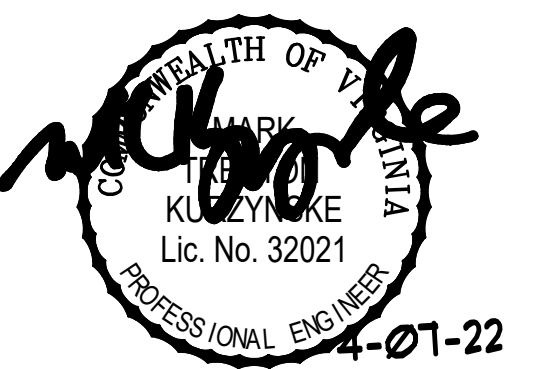


Chick-fil-A

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SHEET
MECH & ENVELOPE
COMCHECK

SHEET NUMBER

M6.1

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement
 Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E. Signature *Mark Kurzynske* 9/10/21
 Name - Title Date

COMcheck Software Version 4.1.5.1
Envelope Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: Chick-fil-A #1342
 Location: Richmond, Virginia
 Climate Zone: 4a
 Project Type: Addition
 Vertical Glazing / Wall Area: 2%

Construction Site: 7125 Forest Hill Ave, Richmond, VA 23225
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

Building Area **Floor Area**
 1-Storage/Office (Dining, Cafeteria/Fast Food) : Nonresidential 379
 2-Drive thru (Dining, Cafeteria/Fast Food) : Nonresidential 39

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cent. R-Value	Proposed U-Factor	Budget U-Factor ₉₀
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Storage/Office]	406	---	30.0	0.032	0.032
Floor 1: Slab-On-Grade Unheated, Vertical 2 ft., [Bldg. Use 1 - Storage/Office] (a)	100	---	10.0	0.540	0.540
Roof 2: Insulation Entirely Above Deck, [Bldg. Use 2 - Drive thru]	47	---	30.0	0.032	0.032
Floor 2: Slab-On-Grade Unheated, Vertical 2 ft., [Bldg. Use 2 - Drive thru] (c)	38	---	10.0	0.540	0.540
NORTH					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Storage/Office]	130	21.0	0.0	0.062	0.064
Exterior Wall 5: Wood-Framed, 16" o.c., [Bldg. Use 2 - Drive thru]	210	21.0	0.0	0.062	0.064
Door 2: Glass (> 50% glazing) Metal Frame, Non-Entrance Door, Pref. Spica: Product ID NA, SHGC 0.40, PF 1.25, [Bldg. Use 2 - Drive thru] (b)	21	---	---	0.770	0.450
EAST					
Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Storage/Office]	571	21.0	0.0	0.062	0.064
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Storage/Office]	28	---	---	0.330	0.610
SOUTH					
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Storage/Office]	130	21.0	0.0	0.062	0.064
WEST					
Exterior Wall 4: Wood-Framed, 16" o.c., [Bldg. Use 2 - Drive thru]	42	21.0	0.0	0.062	0.064

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Fenestration product performance must be certified in accordance with NFRC and require supporting documentation.
 (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske, P.E. Signature *Mark Kurzynske* 4/7/22
 Name - Title Date

COMcheck Software Version 4.1.5.1
Mechanical Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: Chick-fil-A #1342
 Location: Richmond, Virginia
 Climate Zone: 4a
 Project Type: Addition

Construction Site: 7125 Forest Hill Ave, Richmond, VA 23225
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

Mechanical Systems List

Quantity System Type & Description

1 ACRS (5 ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et, or 78% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 63 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 17.10 SEER, Required Efficiency: 14.00 SEER
 Fan System: ACRS | Play Area -- Compliance (Motor nameplate HP method) : Passes
 Fans:
 Supply Supply, Constant Volume, 2000 CFM, 1.0 motor nameplate hp, 0.0 fan efficiency grade
 Exhaust Exhaust, Constant Volume, 300 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade

1 ACRS (12.5 ton) (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 192 kBtu/h
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et, or 78% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 150 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 10.80 EER, Required Efficiency: 10.80 EER, + 12.2 IEER
 Fan System: ACRS | Kitchen -- Compliance (Motor nameplate HP method) : Passes
 Fans:
 Supply Supply, Constant Volume, 4400 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade
 Exhaust Exhaust, Constant Volume, 950 CFM, 0.3 motor nameplate hp, 0.0 fan efficiency grade

1 AHU1ICU1 (Single Zone):
 Split System Heat Pump
 Heating Mode: Capacity = 40 kBtu/h,
 Proposed Efficiency = 10.00 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 34 kBtu/h,
 Proposed Efficiency = 16.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: None

6 GIH (Infrared Heater) (Single Zone):
 Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h
 No minimum efficiency requirement applies
 Fan System: None

1 EH (Infrared Heater) (Single Zone):
 Heating: 1 each - Radiant Heater, Electric, Capacity = 20 kBtu/h
 No minimum efficiency requirement applies
 Fan System: None

FOR CONSTRUCTION

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