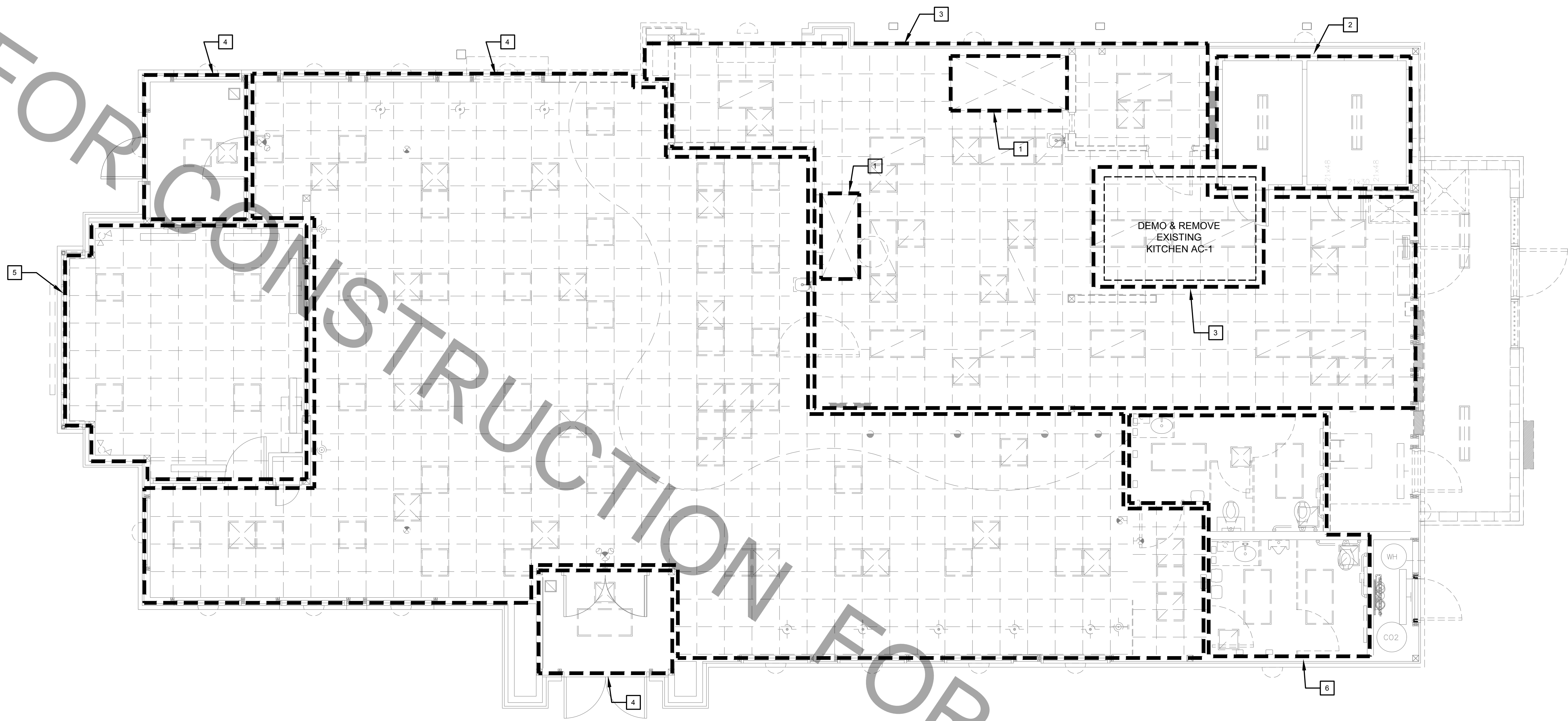
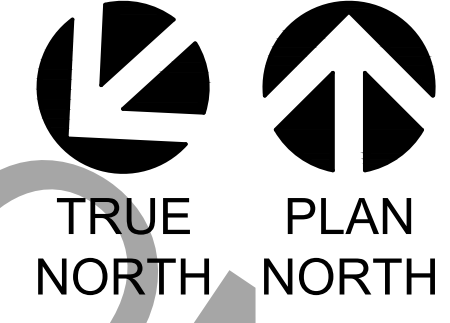


FOR CONSTRUCTION



1 MECHANICAL DEMOLITION FLOOR PLAN

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



MECHANICAL GENERAL NOTES

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
3. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH CHICK-FIL-A SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE CHICK-FIL-A PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE CHICK-FIL-A PROJECT MANUAL SHALL CONTACT THE CHICK-FIL-A AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE CHICK-FIL-A SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
4. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.

KEY NOTES

1. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXHAUST HOOD AND ANSUL FIRE SUPPRESSION. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD INSULATED EXHAUST DUCT UP TO EXISTING EXHAUST FAN LOCATED ON ROOF. CONTRACTOR SHALL RETAIN REMOTE ANSUL PULL STATION FOR RELOCATION DURING NEW WORK PHASE.
2. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD REFRIGERANT PIPING BACK TO REMOTE CONDENSER LOCATED ON ROOF. REFRIGERANTS THAT ARE RECOVERED FROM REFRIGERANT AND AIR-CONDITIONING SYSTEMS SHALL NOT BE REUSED OTHER THAN IN THE SYSTEM FROM WHICH THEY WERE RECOVERED AND IN OTHER SYSTEMS OF THE SAME OWNER. RECOVERED REFRIGERANTS SHALL BE FILTERED AND DRIED BEFORE REUSE. RECOVERED REFRIGERANTS THAT SHOW CLEAR SIGNS OF CONTAMINATION SHALL NOT BE REUSED UNLESS RECLAIMED IN ACCORDANCE WITH SECTION 1102.2.2 OF THE IMC 2018.
3. CONTRACTOR SHALL DEMO/REMOVE AND DISCARD EXISTING KITCHEN AC-1 SUPPLY AIR AND RETURN AIR PLENUM, SUPPLY AIR DIFFUSERS, RETURN AIR DIFFUSERS, SUPPLY AIR DUCT, RETURN AIR DUCT, AND CONDENSATE DRAIN.
4. CONTRACTOR TO DEMO/REMOVE AND DISCARD ALL EXISTING SUPPLY AND RETURN GRILLES IN DINING ROOM/VESTIBULE AREAS. EXISTING SUPPLY AND RETURN DUCTWORK TO REMAIN FOR RECONNECTION TO NEW SUPPLY AND RETURN GRILLES DURING RENOVATION.
5. CONTRACTOR TO DEMO/REMOVE AND DISCARD ALL EXISTING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES IN PLAYGROUND AREA. EXISTING SUPPLY AND RETURN DUCTWORK TO REMAIN FOR RECONNECTION DURING RENOVATION.
6. CONTRACTOR TO DEMO/REMOVE AND DISCARD ALL EXISTING SUPPLY AND EXHAUST GRILLES IN RESTROOM AREAS. EXISTING SUPPLY AND EXHAUST DUCTWORK TO REMAIN FOR RECONNECTION TO NEW SUPPLY AND EXHAUST GRILLES DURING RENOVATION.



Chick-fil-A

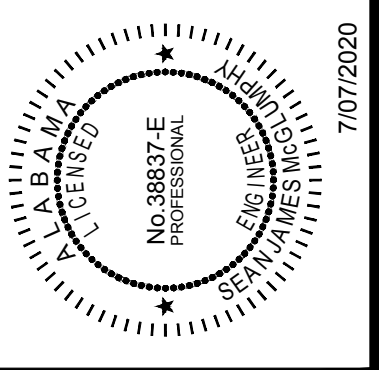
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Plans Prepared By:  
CPH Design, Inc.  
State of Alabama Licenses:  
Engineer No. 2750-E  
Surveyor No. CA-909-LS  
Landscape No. N/A



FOR CONSTRUCTION

No.	Date	Revision

Designed: SJM  
Drawn: JRH  
Checked: SJM  
Job No.: C29114  
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Date: 07/2020 © 2020

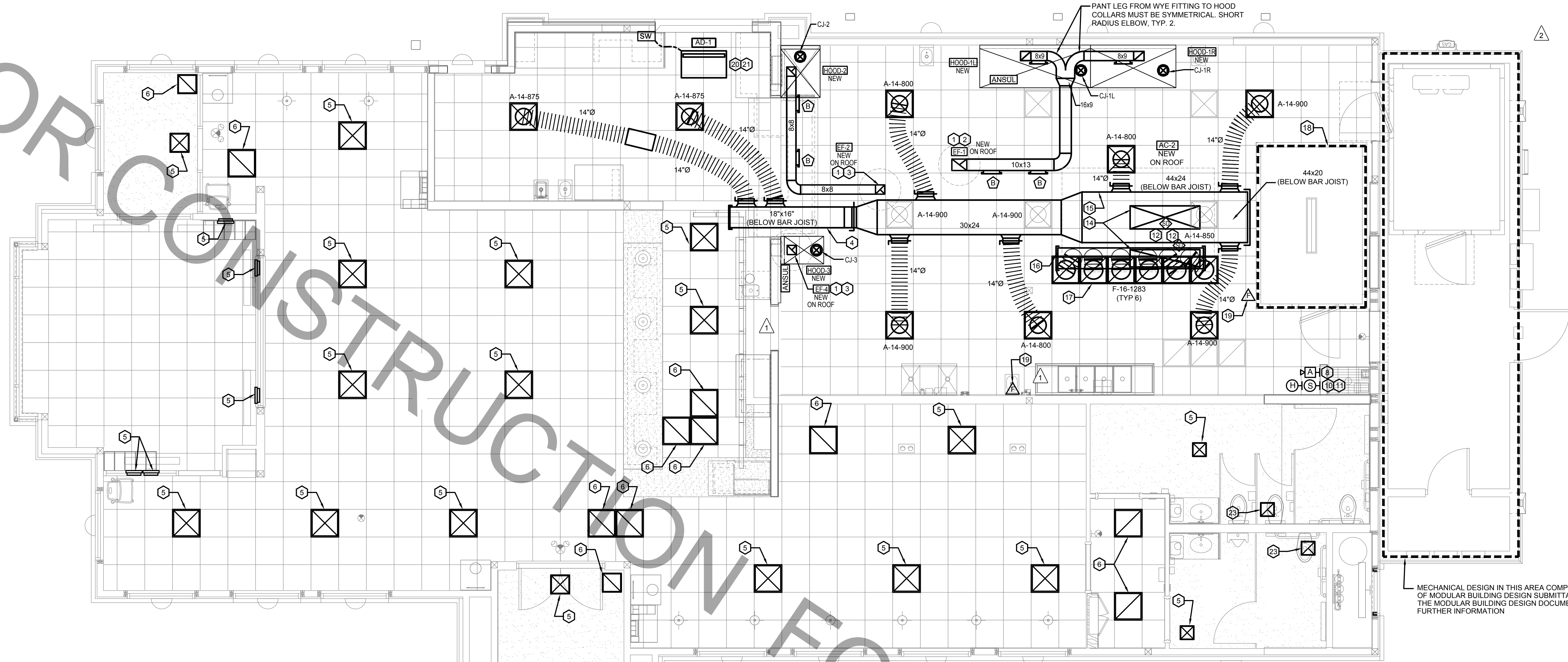
MECHANICAL DEMOLITION FLOOR PLAN  
**CHICK-FIL-A**  
3711 US Highway 280  
PHENIX CITY, ALABAMA 36867

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.  
**M-0.1**



FOR CONSTRUCTION



**1 MECHANICAL RENOVATION FLOOR PLAN**  
SCALE: 1/4"=1'-0"  
TRUE NORTH PLAN NORTH

**SHEET NOTES**

- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
- FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
- AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
- UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
- SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.

**FLEX DUCT SIZE**

RANGE	SIZE	RANGE	SIZE
0 -80 CFM	6" DIA.	511 -750 CFM	14" DIA.
81 -170 CFM	8" DIA.	701 -1100 CFM	16" DIA.
171 -300 CFM	10" DIA.	1101 -1450 CFM	18" DIA.
301 -510 CFM	12" DIA.	1451 -1900 CFM	20" DIA.

- NOTES:**
- BASED ON WIRE HELIX FLEXIBLE DUCT: TYPE FLEX-MASTER
  - UL LISTING: U-181 / ETL CLASS 1 AIR DUCT
  - STANDARD CODE: NFPA 90A AND 90B, BOCA, SBBC HUD/FHA, MIN PROPERTY STD.
  - FLAME SPREAD.....LESS THAN 25
  - SMOKE DEVELOP.....LESS THAN 50
  - MIN R8.0 FOR ATTIC/UNCONDITIONED SPACE.
  - MIN R6.0 FOR RETURN CONDITIONED SPACE.
  - MANUFACTURER IS TO BE USED AS A BASIS FOR DESIGN. CONTACT ENGINEER OF RECORD TO SUBMIT ON APPROVED EQUALS.

**LEGEND**

A-12-400	TYPE - NECK SIZE - CFM	EF-1	EXHAUST FAN #1
⊙	REMOTE TEMPERATURE SENSOR	⚠	PULL STATION
⊕	HUMIDITY SENSOR	⊗	RETURN/EXHAUST
⊠	STROBE AUDIO/VISUAL ALARM-ANNUNCIATOR	⊠	SUPPLY DIFFUSER (TYP.)
12x18	DUCT SIZE (REVERSE FOR ELEVATION VIEWS): 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION	Ⓜ	PLAN NOTE REFERENCE
AC-1	AIR CONDITIONING UNIT #1 (TYP.)	CP	CONTROL PANEL
↔	MANUAL VOLUME DAMPER	SD	SMOKE DETECTOR

**HVAC GENERAL NOTES**

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

**HVAC KEY NOTES**

- 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.
- PROVIDE NEW KITCHEN HOOD EXHAUST FAN REPLACING THE EXISTING FAN THROUGH THE EXISTING ROOF OPENING. PROVIDE NEW FAN WITH NEW CURB LOCATION SHOWN ON PLAN. ENSURE A MINIMUM OF 10 FT FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL ON M3.1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- PROVIDE NEW KITCHEN HOOD EXHAUST FAN WITH NEW CURB LOCATION SHOWN ON PLAN. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING. SEE DETAIL ON M3.1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- CJ-3 MOUNTED INSIDE CABINERY SERVING SCJ PLENUM, SEE DETAIL M6.1.
- CONTRACTOR SHALL REPLACE EXISTING SUPPLY AIR DIFFUSERS. CONTRACTOR SHALL EXTEND SUPPLY AIR DUCT AS REQUIRED. CFM IS EXISTING TO REMAIN.
- CONTRACTOR SHALL REPLACE EXISTING RETURN AIR GRILLES. CONTRACTOR SHALL EXTEND RETURN AIR DUCT AS REQUIRED. CFM IS EXISTING TO REMAIN.
- NOT USED.
- STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 ANNUNCIATOR MOUNTED AT 8' AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- NOT USED.
- MOUNT NEW LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- MOUNT NEW REMOTE TEMPERATURE SENSOR ON WALL AT 5'-0" AFF AND ROUTE WIRING BACK TO TEMP CONTROL PANEL. FOR SENSOR SERVING KITCHEN AC-1. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PRIOR TO BID AND CONSTRUCTION.
- PROVIDE A LENNOX FACTORY INSTALLED SUPPLY SIDE & RETURN SIDE SMOKE DETECTORS. REFER TO SCHEDULE ON SHEET M2.1 AND LENNOX SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM ON SHEET M4.1.
- NOT USED.
- 60x20 SUPPLY AIR RTU DROP AND 60x18 RETURN AIR DROP FROM NEW KITCHEN AC-1.
- SUPPLY AIR DUCT ROUTED BETWEEN BAR JOIST AS HIGH AS POSSIBLE. REFER TO SUPPLY & RETURN DROP GEOMETRY DETAIL ON SHEET M3.1.
- 24x40 RETURN AIR PLENUM ROUTED BETWEEN BAR JOIST AS HIGH AS POSSIBLE. REFER TO SUPPLY & RETURN DROP GEOMETRY DETAIL ON SHEET M3.1.
- 18"Ø BOTTOM TAP RETURN AIR PLENUM WITH SPIN-IN FITTINGS AND DAMPER. REFER TO AIR DEVICE SCHEDULE FOR FURTHER INFORMATION.
- CONTRACTOR SHALL INSTALL AND ROUTE NEW INSULATED REFRIGERANT PIPING FROM ROOF MOUNTED REMOTE CONDENSER TO FREEZER & COOLER EVAPORATORS.
- PROPOSED REMOTE ANSUL PULL LOCATION. ANSUL INSTALLER TO COORDINATE FINAL FIELD LOCATION.
- AIR CURTAIN (AD-1) MOUNTED WITHIN CEILING CENTERED ABOVE DRIVE THRU DOOR 1'-6" FROM THE EXTERIOR WALL. CONTRACTOR TO ADJUST DEFLECTOR ACCORDINGLY TO COVER MAJORITY OF DRIVE THRU DOOR. ATTACH AIR CURTAIN TO STRUCTURE USING 3/8" ALL THREAD SUPPORTS.
- FIELD WIRE FACTORY PROVIDED CONTROLS. SEE KITCHEN ELEVATIONS FOR EXACT LOCATION OF SWITCH.
- NOT USED.
- CONTRACTOR SHALL REPLACE EXISTING EXHAUST AIR DIFFUSERS. CONTRACTOR SHALL EXTEND EXHAUST AIR DUCT AS REQUIRED. CFM IS EXISTING TO REMAIN.

**F2F & OMD CANOPY NOTES**

- REFER TO SHEET M1.3 FOR FURTHER INFORMATION REGARDING CANOPY SCOPE. MECHANICAL CONTRACTOR TO PURCHASE AND MOUNT NEW CIRCULATION FANS & HEATERS. COORDINATE EXACT NUMBER OF FANS & HEATERS WITH CANOPY MANUFACTURER.

**NOTE:**  
GENERAL CONTRACTOR TO HIRE REFRIGERATION CONTRACTOR TO RECLAIM REFRIGERANT FROM EXISTING ICE MAKER AND RECHARGE EXISTING ICE MAKER AFTER KITCHEN TILE IS INSTALLED.

**NOTE:**  
REFER TO SCHEDULES AND DETAILS MECHANICAL SHEET FOR FURTHER INFORMATION.

**NOTE:**  
MECHANICAL CONTRACTOR TO PROVIDE TEST AND BALANCE REPORT BEFORE FINAL INSPECTION.

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

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

MECHANICAL DESIGN IN THIS AREA COMPLETED AS PART OF MODULAR BUILDING DESIGN SUBMITTAL. REFER TO THE MODULAR BUILDING DESIGN DOCUMENTS FOR FURTHER INFORMATION

5200 Buffington Rd.  
Atlanta, Georgia  
30349-2998

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Plans Prepared By:  
**CPH Design, Inc.**  
State of Alabama Licenses:  
Engineer No. 2750-E  
Surveyor No. CA-999-L.S  
Landscape No. N/A

7/07/2020

**FOR CONSTRUCTION**

No.	Date	Revision
1	07/2020	ISSUED FOR CONSTRUCTION
2	07/2020	ADDENDUM #1 - MODULAR CONVERSION
3	07/2020	AS1 #1 - OPERATOR CHANGES

Designed: SJM  
Drawn: JRH  
Checked: SJM  
Job No.: C29114  
Version: 2019-058  
Date: 07/2020 © 2020

MECHANICAL RENOVATION FLOOR PLAN

**CHICK-FIL-A**  
3711 US Highway 280  
PHENIX CITY, ALABAMA 36867

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.  
**M-1.1**

FOR CONSTRUCTION

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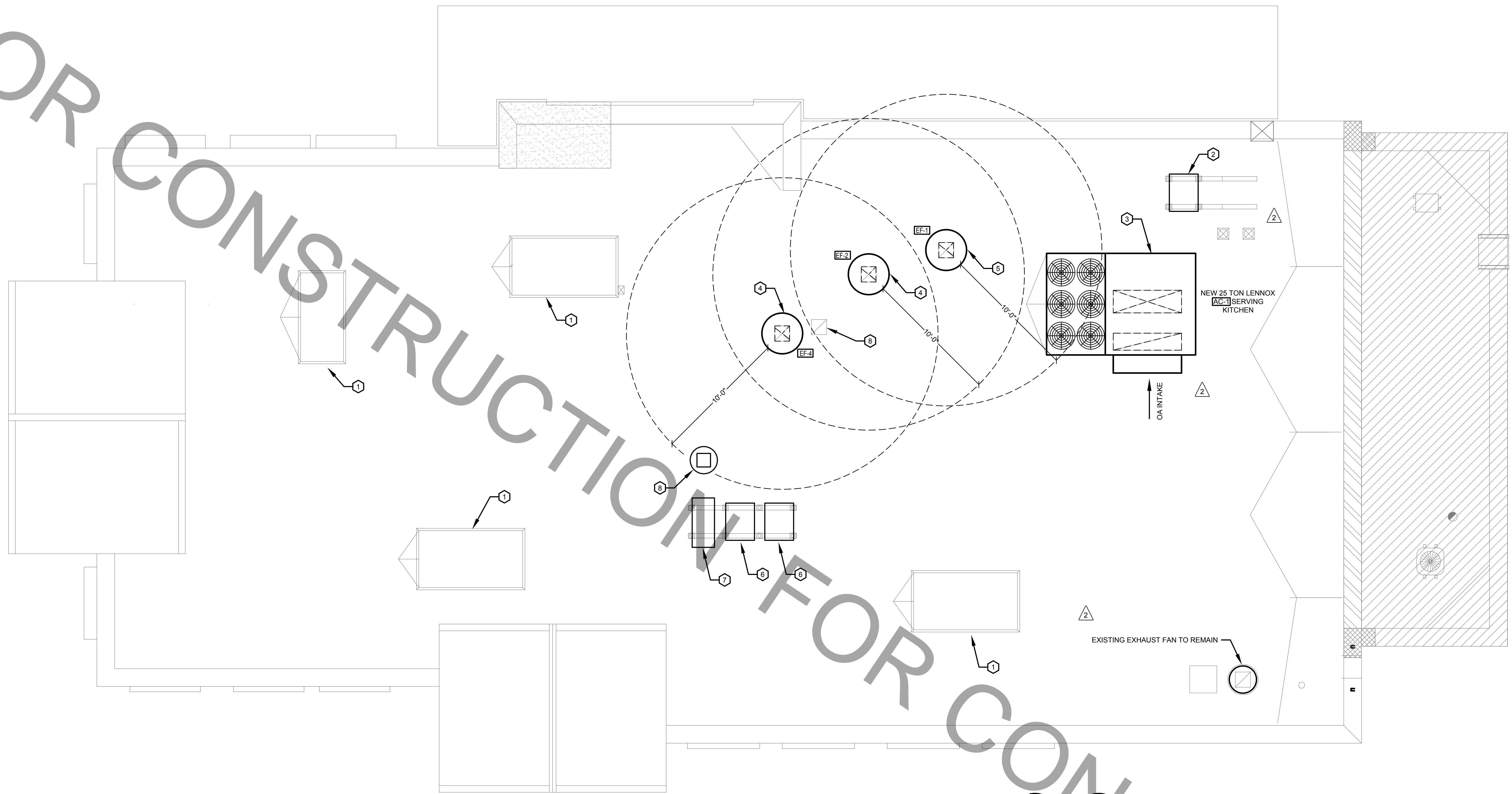
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**1 MECHANICAL RENOVATION ROOF PLAN**  
SCALE: 1/4"=1'-0"



**MECHANICAL GENERAL NOTES**

- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION.
- ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH CHICK-FIL-A SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS ANY VARIANCE FROM THE CHICK-FIL-A SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.

**KEY NOTES**

- RTU TO BE REPLACED WITH "LIKE FOR LIKE" AS A PART OF FACILITIES SCOPE. CONTRACTOR RESPONSIBILITY FOR COORDINATING ALL ASPECTS OF THE RTU REPLACEMENT TO ENSURE UNIT FUNCTIONS PROPERLY AND MEETS NEC CODE REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR NEW REQUIREMENTS. CONTRACTOR TO CONTACT LENNOX NATIONAL ACCOUNT REPRESENTATIVE FOR RTU'S TO BE REPLACED "LIKE FOR LIKE" FOR RTU INFORMATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING, AND AVAILABILITY.
- CONTRACTOR TO INSTALL NEW FREEZER/COOLER CONDENSING UNIT. ROUTE NEW INSULATED REFRIGERANT PIPING DOWN TO NEW FREEZER/COOLER EVAPORATOR BELOW.
- CONTRACTOR SHALL INSTALL NEW LENNOX AC-1 AND AC-6 NEW ROOF CURB. CONTRACTOR SHALL COORDINATE ROOF PENETRATION OPENINGS. REFER TO RTU SCHEDULE FOR FURTHER INFORMATION.
- CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER HOOD SCHEDULE ON MECHANICAL SHEET M2.1. ENSURE THAT NEW EXHAUST FAN IS INSTALLED A MINIMUM 10'-0" FROM ALL AIR INTAKE OPENINGS. PROVIDE NEW CURB.
- CONTRACTOR SHALL INSTALL NEW GREASE EXHAUST FAN PER EXHAUST FAN SCHEDULE ON MECHANICAL SHEET M2.1 THRU EXISTING EXHAUST FAN OPENING. PROVIDE NEW CURB IN LOCATION SHOWN.
- CONNECT NEW REFRIGERANT PIPING THROUGH NEW REFRIGERANT GOOSENECK TO RELOCATED DRIVE-THRU ICE MAKER AND ROUTE BELOW. CONTRACTOR TO RECHARGE REFRIGERANT SYSTEM.
- INSTALL NEW ICE MAKER CONDENSING UNIT & ROUTE NEW REFRIGERANT PIPING DOWN TO NEW KITCHEN ICE MAKER. PROVIDE NEW CONDENSING UNIT RACK STAND AND NEW REFRIGERANT GOOSENECK.
- ROOF CURB SHALL BE CAPPED AND SEALED AIR AND WATER TIGHT DURING THE DEMOLITION PHASE.

MECHANICAL RENOVATION  
ROOF PLAN

**CHICK-FIL-A**  
3711 US Highway 280  
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Sheet No.  
**M-1.2**



Chick-fil-A

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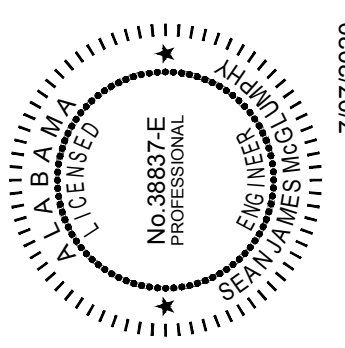


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Landscape No. N/A

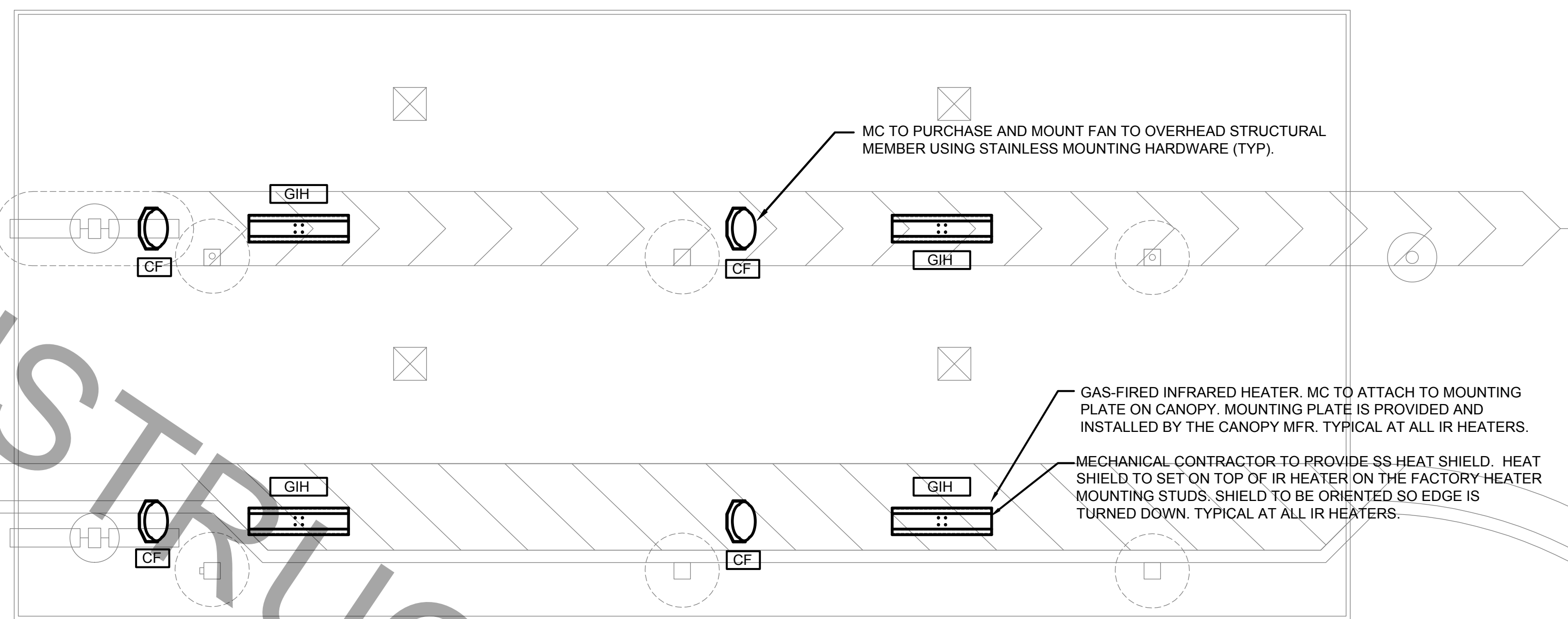


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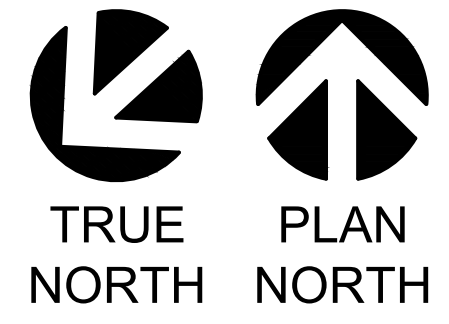
No.	Date	Revision
6-26-20		ADDENDUM #1 - MODULAR CONVERSION

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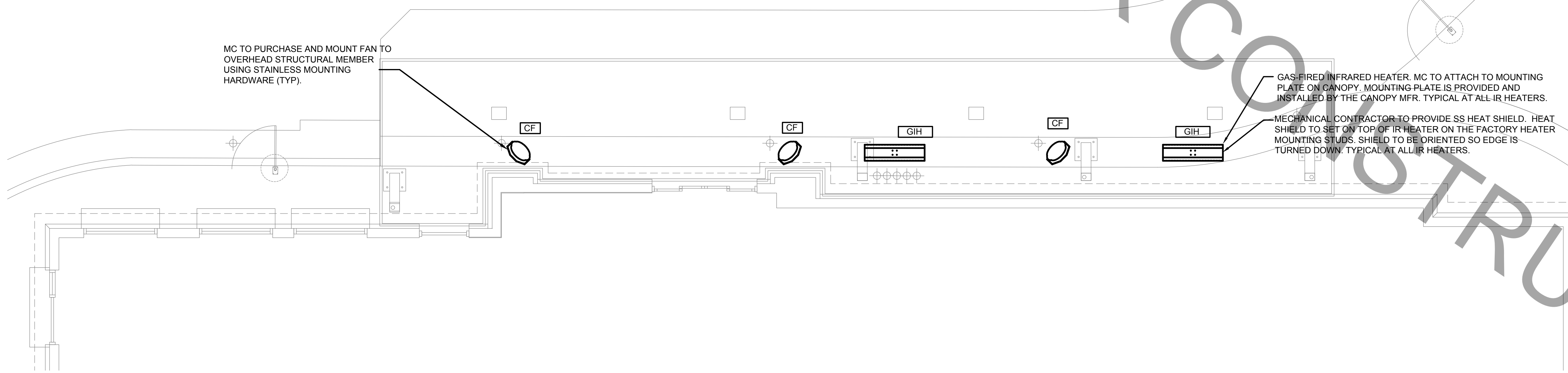
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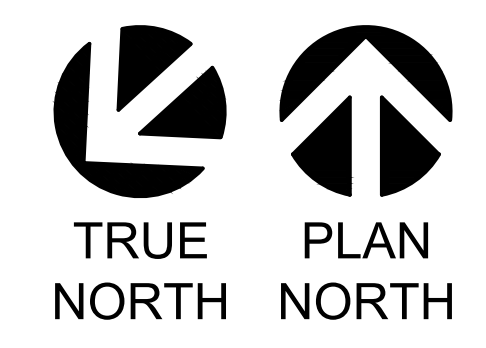
2 HVAC PLAN - DOUBLE LANE ORDER CANOPY  
SCALE: 1/4"=1'-0"



FOR CONSTRUCTION



1 HVAC PLAN - MEAL DELIVERY CANOPY  
SCALE: 1/4"=1'-0"



- CANOPY 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 INSTALLED BY PLUMBING CONTRACTOR AND PAINTED BY GENERAL CONTRACTOR.
  - ACTUAL NUMBER OF GAS INFRARED HEATERS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
  - CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.



Chick-fil-A

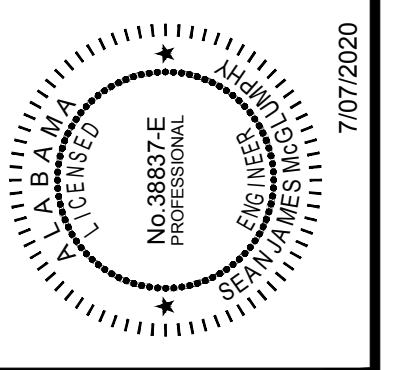
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Engineer No. 2750-E  
Surveyor No. CA-909-LS  
Landscape No. NA



FOR CONSTRUCTION

No.	Date	Revision

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CANOPY MECHANICAL PLANS  
**CHICK-FIL-A**  
3711 US Highway 280  
PHENIX CITY, ALABAMA 36867

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Sheet No.  
**M-1.3**

### EXISTING GAS FIRED ROOFTOP UNIT REPLACEMENT SCHEDULE

MARK	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)				MODEL	MANUFACTURER	REMARKS	ELECTRICAL		
	TOTAL	SENS	INPUT	OUTPUT	SUPPLY	O.A.	HP	ESP				VOLTAGE	MCA	MOCP
AC#2 - DINING A	104.0	71.8	235.0	188.0	3,150	599	2	.65	LGA102H2BH	LENNOX	2,3,5,8,9,10,11,12	208/3	44	50
AC#3 - DINING B	128.0	90.8	235.0	188.0	4,000	760	3	.65	LGA120H2BH	LENNOX	1,3,5,7,8,9,10,11,12	208/3	54	60
AC#4 - DINING B	94.5	69.9	235.0	188.0	2,710	515	2	.65	LGA090H2BH	LENNOX	2,3,5,8,9,10,11,12	208/3	45	50
AC#5 - PLAY AREA	63.9	47.3	125.0	100.0	1,800	342	1.5	.65	LGA060H2BH	LENNOX	3,4,5,7,8,9,10,11,12	208/3	33	45

NOTES:  
 • COOLING CAPACITIES ARE GROSS, BASED ON INDOOR: 75Fdb/62.6Fwb, OUTDOOR: 95Fdb/75.2Fwb  
 • CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT EMILY MURRAY WITH LENNOX NATIONAL ACCOUNTS AT 972-497-6281 (OR BY FAX AT 972-497-5280) FOR PRICING, ORDERING AND AVAILABILITY.

- REMARKS:
- 1) PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
  - 2) PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
  - 3) PROVIDE 14" HIGH ROOF CURB.
  - 4) PROVIDE 0-100% MOTORIZED OUTSIDE AIR DAMPER ASSEMBLY.
  - 5) SEE DETAIL 2/M1.1 FOR SETTING OF ECTO PARAMETERS BY MC.
  - 6) PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
  - 7) PROVIDE FACTORY INSTALLED 115V GFI SERVICE OUTLET.
  - 8) PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
  - 9) PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
  - 10) PROVIDE 2" MERV 7 THROW AWAY FILTERS.
  - 11) PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
  - 12) ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
  - 13) PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF CA AND AZ EXCLUDED).
  - 14) PROVIDE WITH CORROSION RESISTANT COATED COILS.

NOTE:  
 SCHEDULE PROVIDED FOR REFERENCE TO ASSIST IN THE "LIKE FOR LIKE" REPLACEMENT OF THE EXISTING ROOFTOP UNITS. CONTRACTOR TO VERIFY ALL DATA, ACCESSORIES, SIZES, ETC. SHOWN ON THE EXISTING SCHEDULE WITH EQUIPMENT IN THE FIELD. COORDINATE ALL CURB SIZES, DUCT CONNECTIONS, GAS AND CONDENSATE CONNECTIONS WITH NEW EQUIPMENT INPUT AND OUTPUT LOCATIONS. PROVIDE CURB ADAPTERS, DUCT EXTENSIONS, AND PIPE EXTENSIONS AS REQUIRED. CONTRACTOR TO REBALANCE OUTSIDE AIR DAMPERS TO VALUES INDICATED ABOVE.

### GAS FIRED INFRARED HEATER SCHEDULE

MARK	INPUT (MBH)	FRAME SIZE			MOUNTING TYPE	MODEL	MANUFACTURER
		LENGTH	WIDTH	DEPTH			
GIH	50.0	48"	13"	10"	BRACKET	2352-NG	SCHWANK

REMARKS:

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
CF	5,750	1,625	1/8	U18TE-HD	TPI

REMARKS:

1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER
2. 360° 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. SEE MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS
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

### SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (FOR REFERENCE ONLY)

MARK	AREA SERVED	TONNAGE	COOLING CAPACITY (MBH)		HEATING CAPACITY (KW)	FAN SECTION (CFM)				AIR HANDLING UNIT MODEL #	% OA	CONDENSING UNIT MODEL #	MANUFACTURER	SEER	ELECTRICAL DATA			REMARKS		APPROX. WEIGHT WITH OPTIONS (LBS)	
			TOTAL	SENS		SUPPLY	O.A.	HP	ESP						V/PH/Hz	MCA	MOCP	AHU	CU		
NEW AHU-1/CU-1	BOH/OFFICE	3	34.6	27.0	15.0	1,200	228	1.5	0.75	CBA38MV036	19%	13ACXN036	LENNOX	14.0	208/1/60	74	80	1 THRU 4	159	151	

NOTES:  
 • COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80FDB/67FWB, OUTDOOR: 95FDB, AND 400 CFM PER TON.  
 • CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.  
 • MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS:

1. PROVIDE 2" MERV 8 THROW AWAY FILTERS.
2. PROVIDE FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
3. PROVIDE UNIT WITH MSAV BLOWER.
4. PROVIDE FACTORY STAINLESS STEEL HEAT EXCHANGER.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. PRIOR TO ORDERING AND BID.

### AIR BALANCE SCHEDULE

MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC-1 (NEW)	9,500	7,695	1,805		1,805
AC-2	3,150	2,551	599		599
AC-3	4,000	3,240	760		760
AC-4	2,710	2,195	515		515
AC-5	1,800	1,458	342		342
AHU-1 (NEW)	1,200	972	228		228
EF-1				1,912	-1,912
EF-2				701	-804
EF-3				500	-500
EF-4				390	-701
TOTALS:	22,360	18,111	4,248	3,503	+745

NOTES:  
 • CONTRACTOR SHALL REBALANCE AIR CONDITIONING SYSTEMS TO VALUES LISTED ABOVE.

### GREASE ACCESS DOOR SCHEDULE

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

REMARKS:

1. 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 ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRETON INDUSTRIES, INC (800) 382-2491.

### EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
EF-1	1,912	0.75	1,078	3/4	HOOD-1L & R	165VCR	LOREN COOK	1,2,3,4,5
EF-2	701	0.75	1,295	1/3	HOOD-2	150VH4B	LOREN COOK	1,2,3,4,5
EF-3	500				RESTROOMS			6
EF-4	390	0.63	1,016	.109	HOOD-3	150VH4B	LOREN COOK	1,2,3,4,5

NOTES:  
 • GREASE FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.  
 • GREASE EXHAUST FANS SHALL BE UL 762 LISTED.  
 • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FAN/CURB PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:

1. PROVIDE FACTORY 1'-0" BASE CURB AND EXTENSION.
2. PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
3. PROVIDE FACTORY INSTALLED HINGED BASE KIT. REFER TO DETAIL SHEET M3.1 FOR HINGE LOCATION INFORMATION.
4. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GAURD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
5. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
6. EXISTING EXHAUST FAN TO REMAIN.

### AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAPACITY	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD-1	1,543	2,240 FPM	10 KW	3/4 HP	DRIVE THRU	CHA-1-48-(E)	POWERED AIRE	1,2

NOTES:  
 • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:

1. FACTORY PROVIDED, FIELD WIRED WALL SWITCH (HEAT/OFF/FAN).
2. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ON BOTTOM
3. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.

### AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
C	PRICE MODEL SMDC STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	19"x19"	BEVELLED	1,5,6
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	18"x10"	20"x12"	SURFACE	1
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE. FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/ OFFICE/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
J	PRICE MODEL SMDC STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	15"x15"	BEVELLED	1,2,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS/ ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6
L	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE.	PLAY AREA	12"x12"	14"x14"	SURFACE	1

NOTES:  
 • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:

1. STANDARD OFF WHITE FINISH
2. PROVIDE MODEL VCS3 NECK DAMPER.
3. NOT USED
4. PROVIDE MODEL VCR7 NEC DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
5. PROVIDE BACKPAN MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 2 ON SHEET M3.1.
7. FACTORY INSULATED R-6 BACKPAN.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.

### GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	TONNAGE	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM) INCLUDING EXISTING AC UNITS REBALANCE				MODEL	% OA	MODEL	MANUFACTURER	ELECTRICAL DATA			REMARKS	APPROX. WEIGHT WITH OPTIONS (POUNDS)
			TOTAL	SENS	INPUT	OUTPUT	SUPPLY	O.A.	HP	ESP					V/PH/Hz	MCA	MOCP		
NEW AC-1	KITCHEN	25.0	288.4	219.2	260	208	9,500	1,805	10	0.8	-	19%	LGH300H4BM	LENNOX	208/3/60	137	150	1,3,4,5,7,8,9,10,11,12,13,14,15,16	2,735

NOTES:  
 • COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80FDB/67FWB, OUTDOOR: 95FDB, AND 400 CFM PER TON.  
 • CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.  
 • MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS:

1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
2. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST. PROVIDE CURBS PLUS RESTRAINT CLIP KIT.
3. PROVIDE 14" HIGH ROOF CURB.
4. SEE DETAIL ON SHEET M4.1 FOR SETTING OF PRODIGY M3 BOARD CONTROL PARAMETERS BY MC.
5. PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
6. PROVIDE FACTORY INSTALLED 115V GFI SERVICE OUTLET.
7. PROVIDE FACTORY INSTALLED SUPPLY AND RETURN SIDE SMOKE DETECTOR.
8. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
9. PROVIDE 2" MERV 8 THROW AWAY FILTERS.
10. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
11. ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
12. PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED.
13. PROVIDE FRESH AIR TEMPERING KIT.
14. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.
15. PROVIDE FACTORY INSTALLED BELT TENSIONER.
16. PROVIDE FACTORY CONFIGURED PHASE LOSS PROTECTION.
17. PROVIDE FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
18. PROVIDE UNIT WITH MSAV BLOWER.
19. PROVIDE FACTORY STAINLESS STEEL HEAT EXCHANGER.
20. PROVIDE WITH COATED EVAPORATOR AND CONDENSER COILS.



Chick-fil-A

5200 Buffington Rd.  
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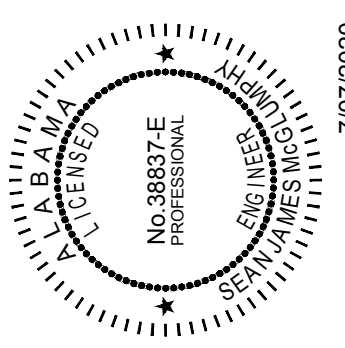


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FOR CONSTRUCTION

No.	Date	Revision
6-26-20		ADDENDUM #1 - MODULAR CONVERSION

Designed: SJM  
 Drawn: JRH  
 Checked: SJM  
 Job No.: C29114  
 Version: 2019-058  
 Date: 07/2020 © 2020

MECHANICAL SCHEDULES  
 CHICK-FIL-A  
 3711 US Highway 280  
 PHEENIX CITY, ALABAMA 36867

THIS SHEET NOT VALID FOR CONSTRUCTION WITHOUT COMPLETE SET OF PLANS.

Sheet No.  
 M-2.1





# FOR CONSTRUCTION

## SECTION C15000 - MECHANICAL SPECIFICATIONS

### PART I - GENERAL

#### 1.01 SCOPE

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

### PART II - PRODUCTS

#### 2.01 HEATING AND COOLING EQUIPMENT (C15730)

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

#### 2.02 DUCTWORK (C15735) (SEE DWG M3.1 FOR ADDITIONAL GREASE DUCT SYSTEM REQ.)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.
- D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.
- E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.

- F. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL-KRAFT FACING.

- G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

- H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

- I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

- J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.

- K. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

- L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0". NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M3.1.

- M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR NYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.

- N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

- O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

- P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

- Q. RADIIUSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO: R=W PER FIGURE NO. 2.2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

- R. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

#### 2.03 CONTROLS (C15735)

- A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.

- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.

- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE SUPPLY AIR & RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.

- D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.

- E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUNCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.

- F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.

- G. LENNOX UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A VENSTAR T2700 THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT.

- H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

### PART III - EXECUTION

#### 3.01 SCOPE

- A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

- B. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NCI OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. B.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.

- C. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

- D. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNERS REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

- E. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.

#### 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. C.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.

- F. THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.

## NATIONAL ACCOUNTS

1. LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6280 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
2. LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
3. PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
4. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
5. SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.
6. HALTON HOODS - CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
7. ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
8. TPI FAN PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
9. SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.



Chick-fil-A

5200 Buffington Rd.  
Atlanta, Georgia  
30349-2998

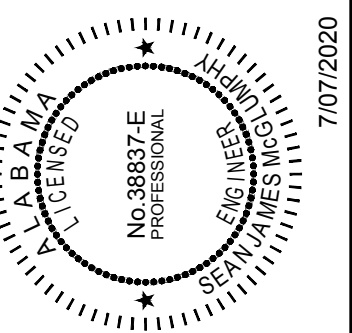


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No.	Date	Revision

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Drawn: JRH  
Checked: SJM  
Job No.: C29114  
Version: 2019-058  
Date: 07/2020 © 2020

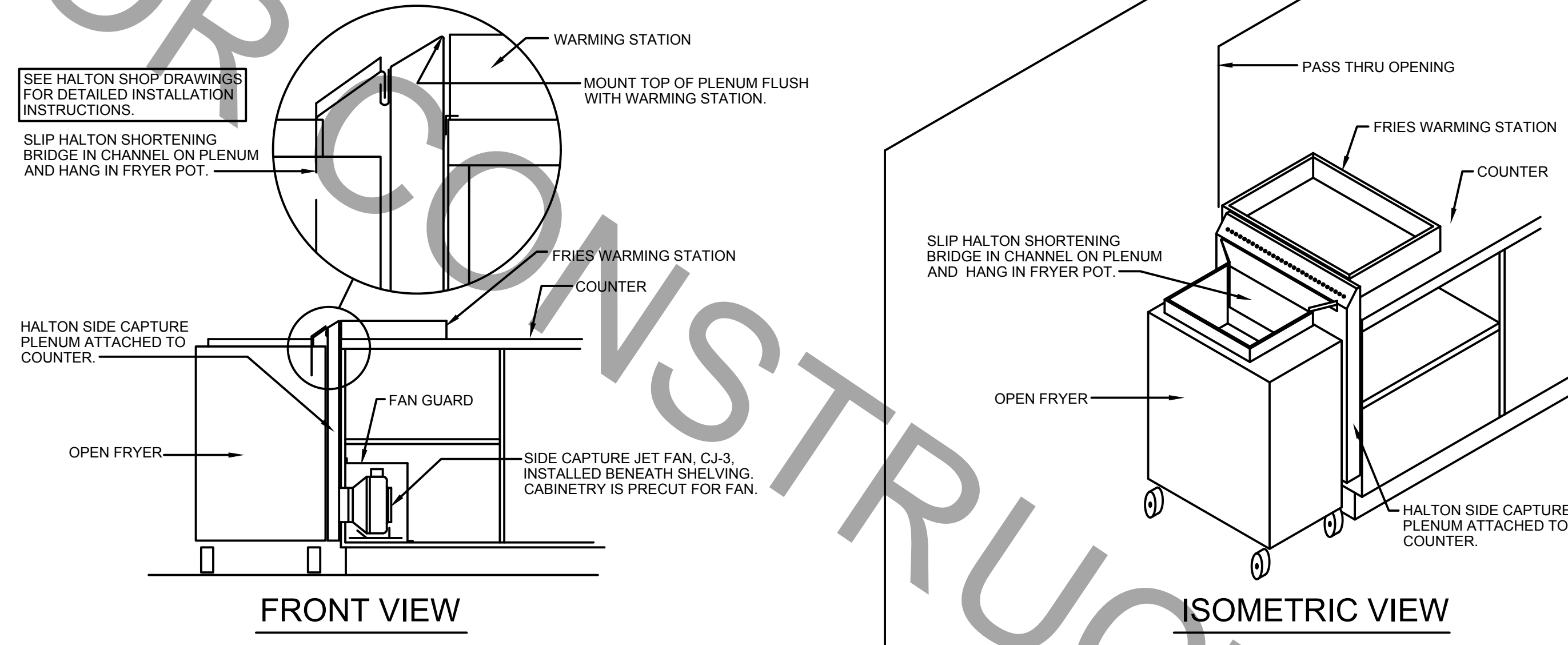
MECHANICAL SPECIFICATIONS

CHICK-FIL-A  
3711 US Highway 280  
PHENIX CITY, ALABAMA 36867

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Sheet No.  
M-5.1

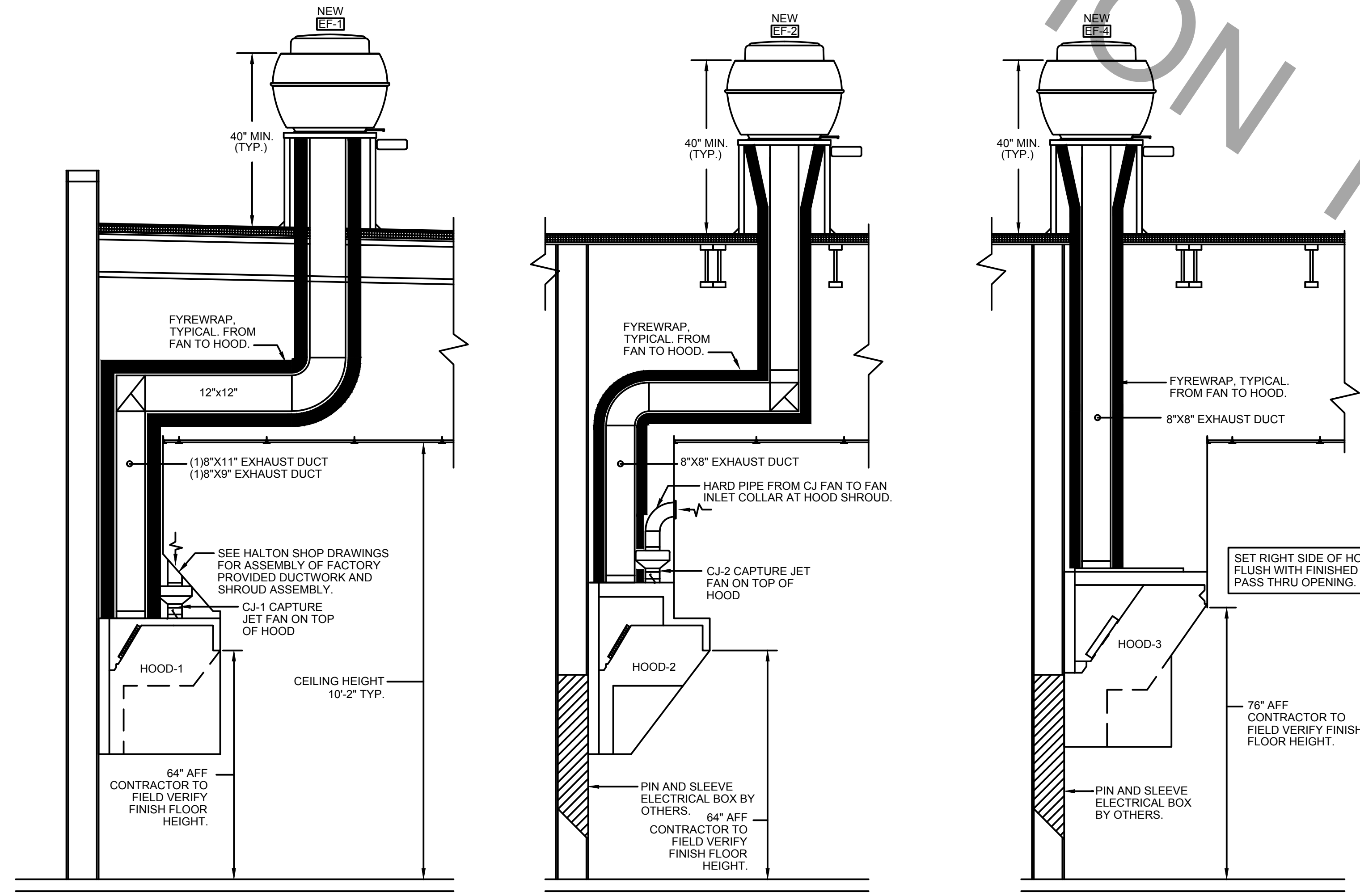
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FRONT VIEW

ISOMETRIC VIEW

**3 HALTON SIDE CAPTURE JET PLENUM**  
SCALE: N.T.S.

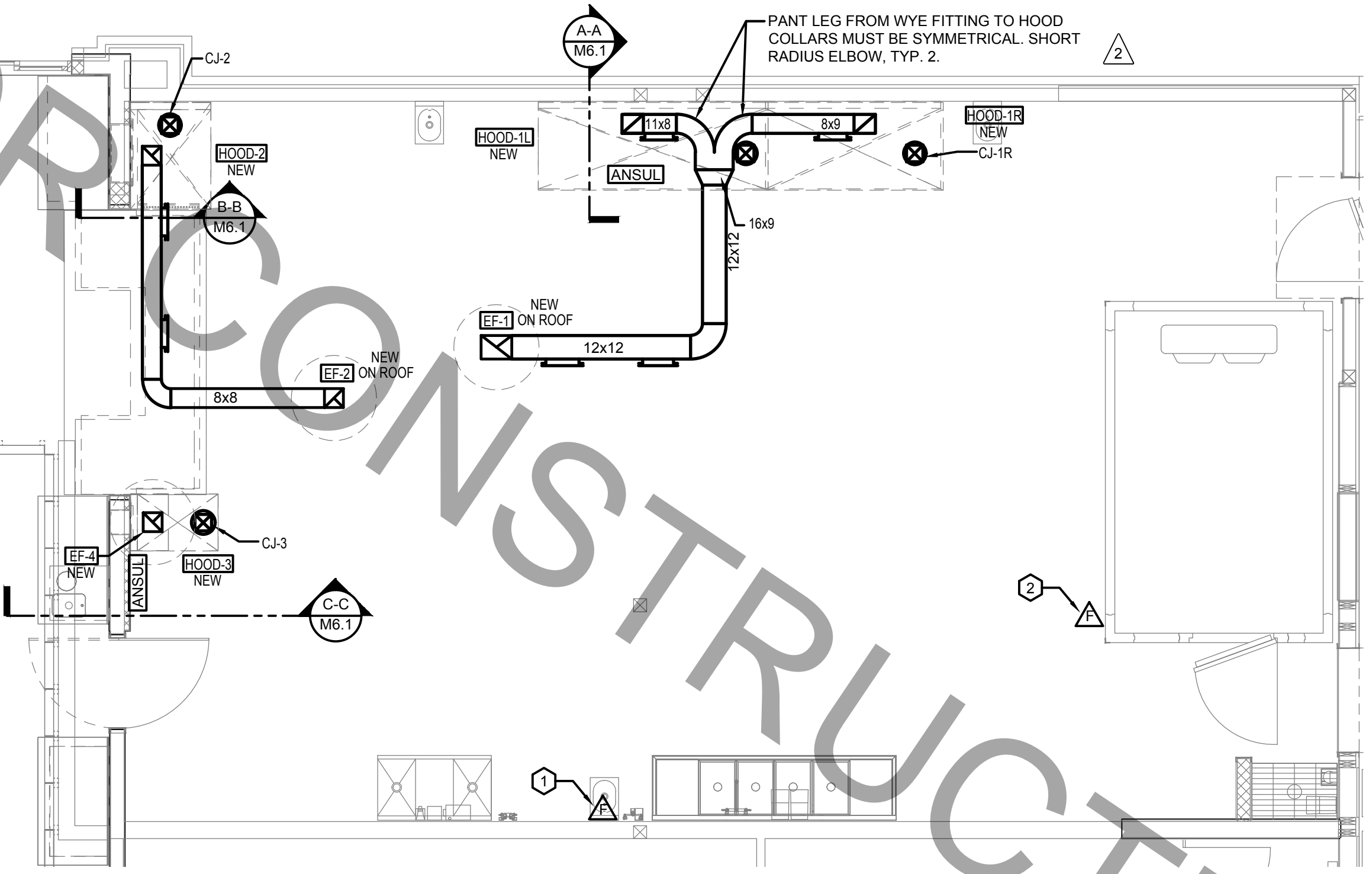


SECTION "A-A"

SECTION "B-B"

SECTION "C-C"

**2 HOOD ELEVATIONS**  
SCALE: N.T.S.



**1 HOOD LAYOUT**  
SCALE: 1/4"=1'-0"

- KITCHEN HOOD SYSTEMS NOTES**
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
  - THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
  - THE R-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 HIRED BY HALTON.
  - HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
  - TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2. NO EXCEPTIONS ALLOWED. NO MITERED FITTINGS ALLOWED.
  - ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  - SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
  - WRAP NEW GREASE DUCT WITH UNIFRAX FyreWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FyreWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
  - 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.

- GREASE EXHAUST DUCT CLEARANCE NOTE**
- CLEARANCES ABOVE CEILING ARE TIGHT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND CLEARANCES PRIOR TO FABRICATING GREASE EXHAUST DUCT.
- CAPTURE JET NOTE**
- REFER TO 'CAPTURE-JET FAN INSTALLATION AND DIMENSIONAL DATA' SCHEDULE ON HALTON SHOP DRAWINGS (SHEET MH.1) FOR INFORMATION ON CAPTURE JET FAN.
- HOOD ELEVATION NOTE**
- HOOD ELEVATIONS ON THIS SHEET ONLY SERVE ILLUSTRATIVE PURPOSES. SEE DETAILS ON HALTON SHOP DRAWINGS ON SHEET MH.1 FOR DETAILS ON STANDOFFS, CLEARANCES, AND HOOD CONSTRUCTION.
- CLEANOUT DOOR NOTE**
- DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS. NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.
- HOOD COMBUSTIBLE CLEARANCE NOTE**
- ALL NEW HOODS SHALL BE RATED WITH ONE INCH THICK LAYER OF FACTORY INSTALLED INSULATION TO MEET "ZERO INCH CLEARANCE" TO COMBUSTIBLE MATERIALS. HOOD SHALL BE CERTIFIED BY ETL SPECIFICATIONS, AND SHALL CONFORM TO UL STANDARD 710, BUILT PER NFPA 96 SECTION 4.2.2., AND NSF LISTED.

**H.E.S.S. SYSTEM NOTE**

MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S.S. SYSTEM FOR ALL NEW HOODS. SEE FAN AND EQUIPMENT INTERLOCK WIRING DIAGRAM ON SHEET M4.1.

**HOOD SCHEDULE**

MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
NEW HOOD-1L	1,080	0.24	72 @ 0.30"	CANOPY	11"x8"	96	37	38	HALTON	KVL-2	1,2,3,5,7,8,9,12,16
NEW HOOD-1R	832	0.23	55 @ 0.30"	CANOPY	9"x8"	74	37	38	HALTON	KVL-2	1,2,3,4,5,7,8,9,12,20
NEW HOOD-2	701	0.39	30 @ 0.29"	BACK-SHELVIE	8"x8"	42	34	38	HALTON	KVL-C	1,2,3,6,7,8,9,12,13,15,16,18,21
NEW HOOD-3	390	0.30	18 @ 0.42"	BACK-SHELVIE	8"x8"	24	34	38	HALTON	KVL-D	1,2,3,4,6,7,8,10,11,12,14,17,19,21

**NOTES**

- DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).
- TYPICAL INSTALLATION FOR NEW HOODS. FIELD VERIFY & COORDINATE WITH HOOD DRAWINGS BY HALTON. REFER TO SHEET MH.1 & MH.2 PRIOR TO BID & CONSTRUCTION.

**REMARKS**

- STAINLESS STEEL CONSTRUCTION.
- PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, SERVICE ANSUL COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
- PROVIDE PRE-PIPED ANSUL R-102 WET FIRE EXTINGUISHING SYSTEM.
- ANSUL CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
- PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
- PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
- PROVIDE EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
- PROVIDE FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
- PROVIDE TOP PLENUM CAPTURE JET FAN, SPEED CONTROLLER AND COLLAR.
- PROVIDE COUNTER MOUNTED SIDE CAPTURE JET PLENUM ASSEMBLY AND FAN ON RIGHT SIDE OF HOOD.
- PROVIDE FACTORY INSTALLED CAPTURE JET FAN IN PLENUM.
- PROVIDE CAPTURE JET AIR INLET AND COLLAR AT FRONT OF CLOSURE PANEL.
- PROVIDE PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCH. AND ELEC. DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE PIN AND SLEEVE ELECTRICAL BOX (SINGLE CONNECTION). SEE ARCH. AND ELEC. DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
- PROVIDE NOTCHED LEFT END SIDE PANEL.
- PROVIDE NOTCHED RIGHT END SIDE PANEL.
- PROVIDE 3"x3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR LEFT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
- PROVIDE FULL LEFT END SIDE PANEL.
- PROVIDE FULL RIGHT END SIDE PANEL.
- PROVIDE HALTON KBD EQUALIZER.

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

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ADDENDUM #1 - MODULAR CONVERSION  
6-26-20

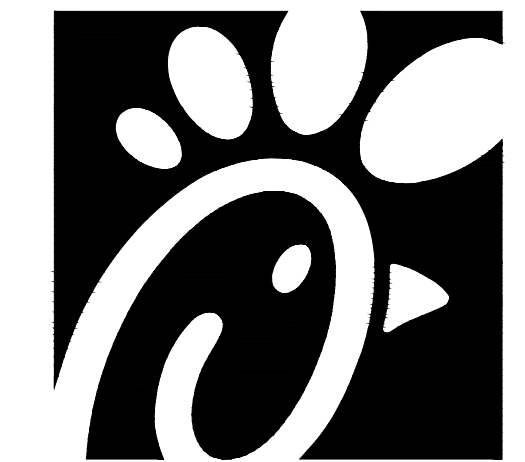
Designed: SJM  
Drawn: JRH  
Checked: SJM  
Job No.: C29114  
Version: 2019-058  
Date: 07/2020 © 2020

HOOD DETAILS & SCHEDULES  
**CHICK-FIL-A**  
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PHENIX CITY, ALABAMA 36867

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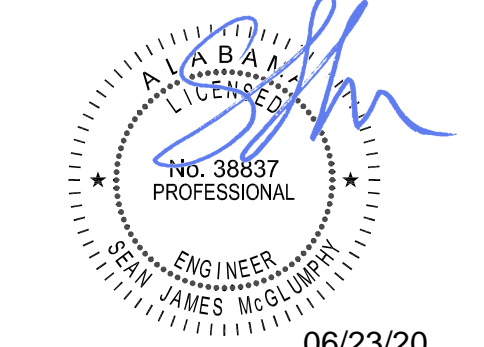
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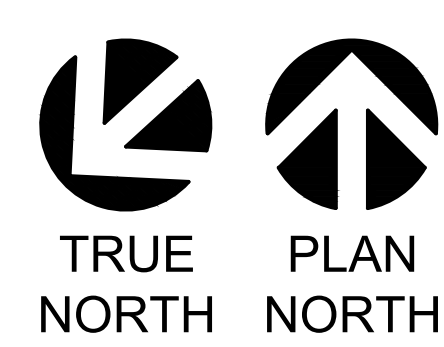
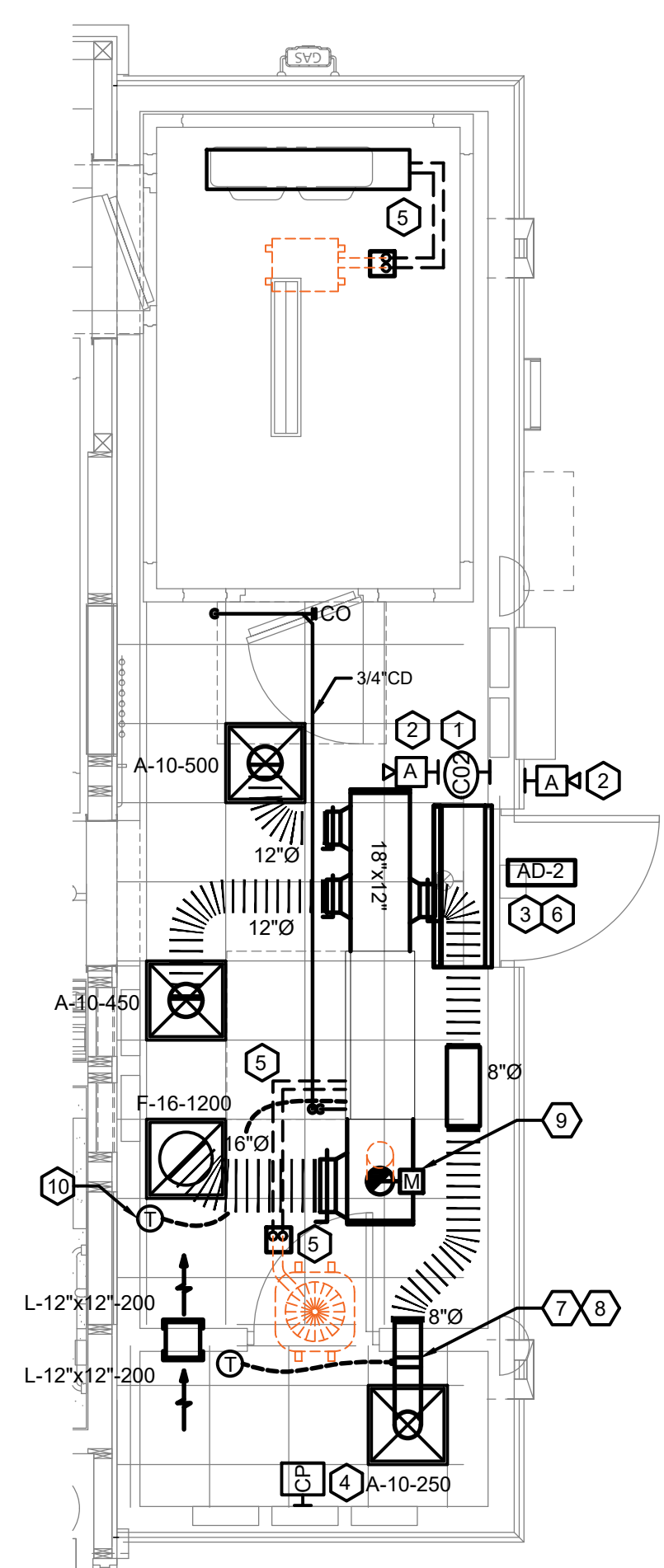
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06/23/20



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

OUTSIDE AIR VENTILATION CALCULATION									
MARK	AREA SERVED	SQFT	# OF PEOPLE	CFM REQ PER PERSON	CFM REQ PER SQFT	ZONE EFFECT	OA CFM REQUIRED	OA CFM DESIGNED	
AHU-1	MULTIPURPOSE	166	1	5	0.06	0.8	19	180	
	OFFICE	35	1	5	0.06	0.8	9	48	
TOTAL CALCULATED OA CFM FOR: RTU-9							0.8	28	228

NOTE:  
 1. ALL CALCULATIONS PERFORMED IN ACCORDANCE WITH IMC 2015 CHAPTER 4.

AIR DOOR SCHEDULE								
MARK	CFM	VELOCITY	HEATING CAPACITY	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD-2	3867	4220 FPM	N/A	3/4 HP	REAR DOOR	RBT-1-48	POWERED AIRE	1

NOTES:  
 • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:  
 1. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.

AIR DEVICE SCHEDULE								
MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS		
A	PRICE MODEL APCD ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	BOH	VARIES	24"x24"	LAY-IN	1,2		
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE. FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	BOH	VARIES	24"x24"	LAY-IN	1,2		
L	PRICE MODEL ZT ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	BOH	12"x12"	14"x14"	SURFACE	1		

NOTES:  
 • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010. FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS:  
 1. STANDARD OFF WHITE FINISH  
 2. FACTORY INSULATED R-6 BACKPAN.

- HVAC KEY NOTES**
- STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 SENSOR ANALOG AX80. SENSOR SHALL BE MOUNTED AT 12" AFF WITH SPLASH GUARD AND CAGE. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE REQUIREMENTS. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 728-1199 OR (770) 462-2501.
  - STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 ANNUNCIATOR MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 728-1199 OR (770) 462-2501.
  - PROVIDE NEW AIR CURTAIN (AD-2) AS SHOWN ON PLAN. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BID.
  - STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 CENTRAL CONTROL UNIT MOUNTED AT 60" AFF. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE-GANG J-BOX WITH 1/2" CONDUIT EXTENDED TO ABOVE ACCESSIBLE CEILING SPACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. COORDINATE WITH ELECTRICAL DRAWING FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT: STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 728-1199 OR (770) 462-2501.
  - CONTRACTOR SHALL INSTALL AND ROUTE NEW INSULATED REFRIGERANT PIPING FROM ROOF MOUNTED REMOTE CONDENSER TO EVAPORATORS. PROVIDE PIPE PORTALS FOR REFRIGERANT PENETRATION THRU ROOF.
  - 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.
  - YOUNG REGULATOR 8" MODEL 2010 ROUND ZONE DAMPER WITH MODEL T-312CE AUTOMATIC CHANGEOVER THERMOSTAT. MOUNT TSTAT AT 4'-0" AFF. POWER OPEN/SPRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM ARIELOW. 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 404-351-1010. 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. THERE IS NO INTERLOCKING OR MONITORING BY WAY OF THE S.E.C. CFA-500 PANEL. SEE WIRING DIAGRAMS ON M-501.
  - 10"Ø OUTSIDE AIR DUCT ROUTED UP THRU ROOF. PROVIDE MOTORIZED DAMPER IN OUTSIDE AIR DUCT AND INTEGRATE WITH AIR HANDLING UNIT CONTROLS. TERMINATE OUTSIDE AIR DUCT ON ROOF WITH GOOSENECK AND BIRDSCREEN OVER OPENING.
  - MOUNT TEMPERATURE SENSOR 48" AFF IN BOH SPACE. COORDINATE EXACT LOCATION WITH OWNER.

- SHEET NOTES**
- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
  - FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
  - AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
  - UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
  - SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.

**FLEX DUCT SIZE**

RANGE	SIZE	RANGE	SIZE
0-80 CFM	6" DIA.	511-750 CFM	14" DIA.
81-170 CFM	8" DIA.	701-1100 CFM	16" DIA.
171-300 CFM	10" DIA.	1101-1450 CFM	18" DIA.
301-510 CFM	12" DIA.	1451-1900 CFM	20" DIA.

- NOTES:**
- BASED ON WIRE HELIX FLEXIBLE DUCT. TYPE FLEX-MASTER
  - UL LISTINGS: U-181 / ETL CLASS 1 AIR DUCT
  - STANDARD CODE: NFPA 90A AND 90B, BOCA, SBBC HUD/FHA, MIN PROPERTY STD.
  - FLAME SPREAD.....LESS THAN 25
  - SMOKE DEVELOP.....LESS THAN 50
  - MIN R6.0 FOR ATTIC/CONDITION SPACE.
  - MIN R6.0 FOR RETURN CONDITIONED SPACE.
  - MANUFACTURER IS TO BE USED AS A BASIS FOR DESIGN. CONTACT ENGINEER OF RECORD TO SUBMIT ON APPROVED EQUALS.

**LEGEND**

A-12-400	TYPE - NECK SIZE - CFM	EF-1	EXHAUST FAN #1
⊙	REMOTE TEMPERATURE SENSOR	⊠	PULL STATION
⊕	HUMIDITY SENSOR	⊞	RETURN/EXHAUST
⊠	STROBE AUDIO/VISUAL ALARM-ANNUNCIATOR	⊞	SUPPLY DIFFUSER (TYP.)
12x18	DUCT SIZE (REVERSE FOR ELEVATION VIEWS): 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION	⊞	PLAN NOTE REFERENCE
AC-1	AIR CONDITIONING UNIT #1 (TYP.)	CP	CONTROL PANEL
↔	MANUAL VOLUME DAMPER	⊞	SMOKE DETECTOR

- HVAC GENERAL NOTES**
- DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
  - MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THE PLAN & RTU SCHEDULE. IF AIRFLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER.
  - NO PIPING OR DUCTWORK ALLOWED ABOVE ANY ELECTRICAL/CONTROL PANELS.
  - COORDINATE NEW WORK WITH CONDUITS, STRUCTURE, & PIPING.

**SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE**

MARK	AREA SERVED	TONNAGE	COOLING CAPACITY (MBH)		HEATING CAPACITY		FAN SECTION (CFM)				AIR HANDLING UNIT MODEL #	% OA	CONDENSING UNIT MODEL #	MANUFACTURER	SEER	ELECTRICAL DATA			REMARKS	APPROX. WEIGHT WITH OPTIONS (LBS)	
			TOTAL	SENS	KW	SUPPLY	O.A.	HP	ESP	V/PH/Hz						MCA	MCCP	AHU		CU	
NEW AHU-1/UCU-1	BOH/OFFICE	3	34.6	27.0	15.0	1,200	228	.5	0.75		CBA38MV-036	19%	13ACXN036	LENNOX	14.0	208/1/60	74	80	1 THRU 4	159	151

NOTES:  
 • COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80FDB/67FWB, OUTDOOR: 95FDB, AND 400 CFM PER TON.  
 • CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-4219 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.  
 • MECHANICAL CONTRACTOR TO VERIFY LENNOX SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS:  
 1. PROVIDE 2" MERV 8 THROW AWAY FILTERS.  
 2. PROVIDE FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.  
 3. PROVIDE UNIT WITH MSAV BLOWER.  
 4. PROVIDE FACTORY STAINLESS STEEL HEAT EXCHANGER.

CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. PRIOR TO ORDERING AND BID.

**CHICK-FIL-A**  
**PHENIX CITY CFA**  
**MODULAR ADDITION**

**FSR#01815**

BUILDING TYPE / SIZE:  
 RELEASE:

NO.	DATE	DESCRIPTION

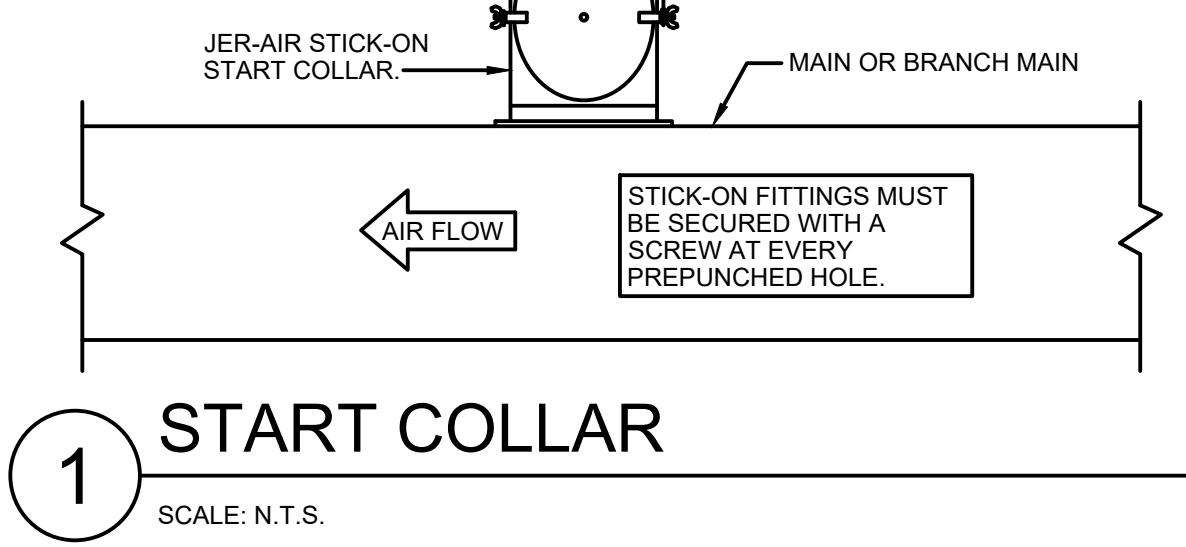
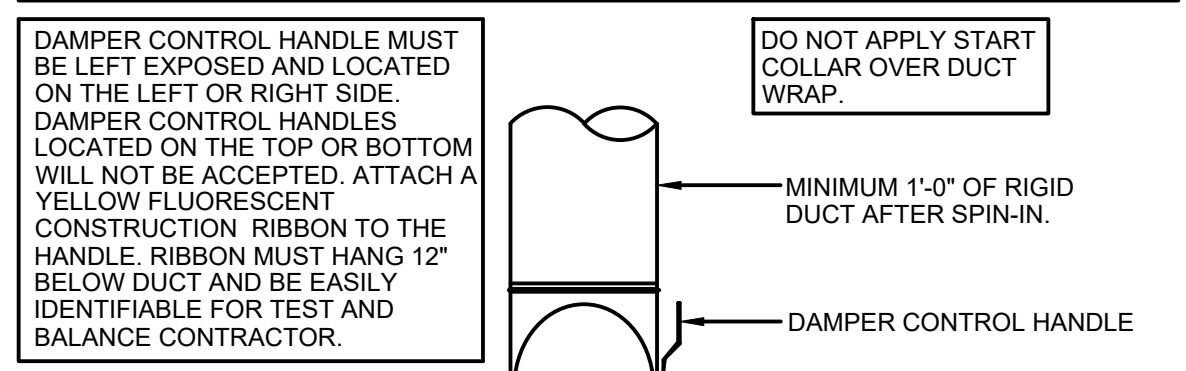
CONSULTANT PROJECT # 29114  
 PRINTED FOR Permit Submittal  
 DATE 06-18-20  
 DRAWN BY S.J.M.

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 SHEET  
 MECHANICAL RENOVATION FLOOR PLAN

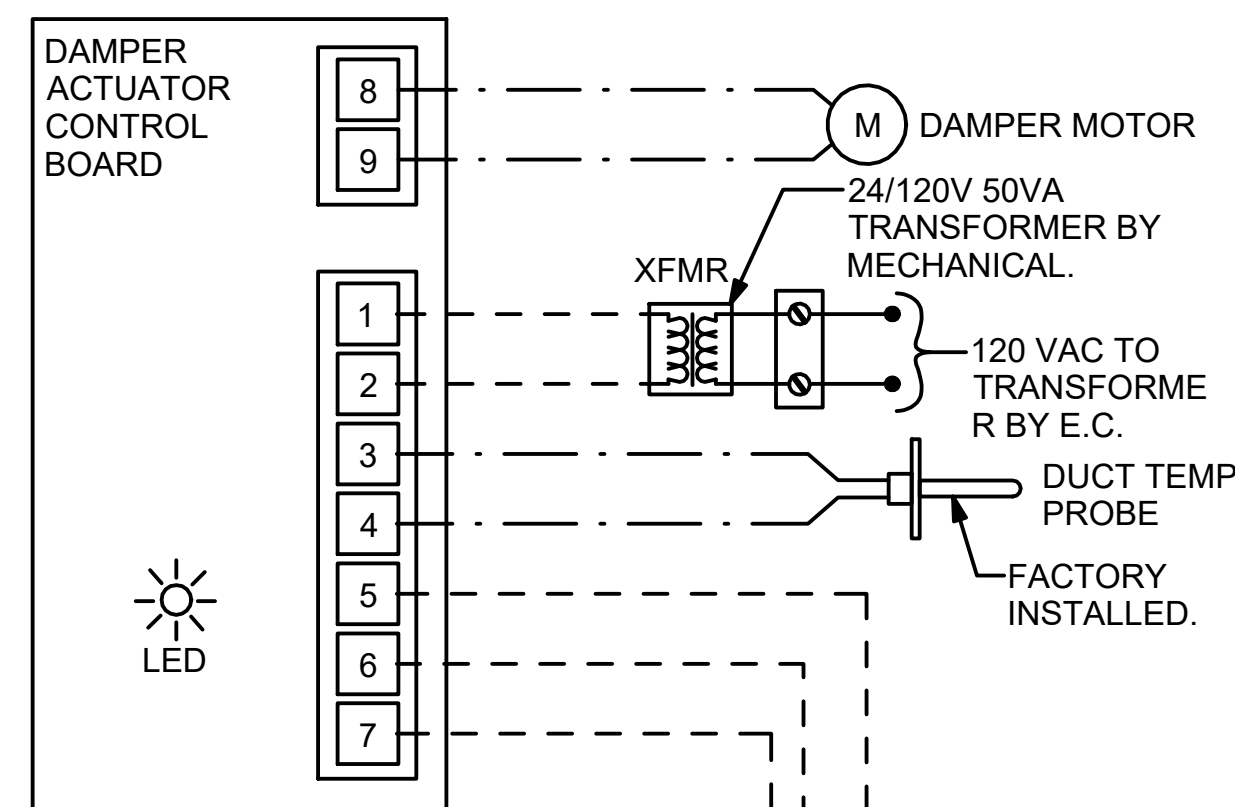
SHEET NUMBER  
**M101.MOD**

Permit Submittal

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



1 START COLLAR  
SCALE: N.T.S.



2 VAV DAMPER AND TSTAT - MGRS OFFICE  
SCALE: N.T.S.

**NOTES**

- THIS SHEET FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
- 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND LIVE 24 HOURS EACH DAY.
- PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM.
- PROVIDE MYLAR LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "OFFICE THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY ON DEVICE.

**SEQUENCE OF OPERATION**

- WHEN THE SUPPLY AIR TEMPERATURE IS LESS THAN 72F THE DAMPER WILL OPEN FULLY ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
- WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 71F THE DAMPER WILL OPEN FULLY ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.

**SECTION C15000 - MECHANICAL SPECIFICATIONS**

**PART I - GENERAL**

1.01 SCOPE

- IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.
- COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.
- 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.
- 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.
- UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK SHALL BE INSPECTED AND THOROUGHLY CLEANED, READY FOR USE, AT COMPLETION OF JOB. ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

**PART II - PRODUCTS**

2.01 HEATING AND COOLING EQUIPMENT (C15730)

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

CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735)

- ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.
- ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.
- CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.
- DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.

F. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 5.8 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOLKRAFT FACING.

G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION.

K. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWINGS M3.1.

M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.

N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

Q. RADIUS ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO: R=W PER FIGURE NO. 2-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

R. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS (C15735)

- 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.
- THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- A FACTORY INSTALLED SMOKE DETECTOR IN THE SUPPLY AIR & 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.
- 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.
- 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.
- 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.
- LENNOX UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE

CONTROL PANEL BY SUNCOAST ENVIRONMENTAL CONTROLS. SUNCOAST WILL PROVIDE A VENSTAR T7700 THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT.

H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

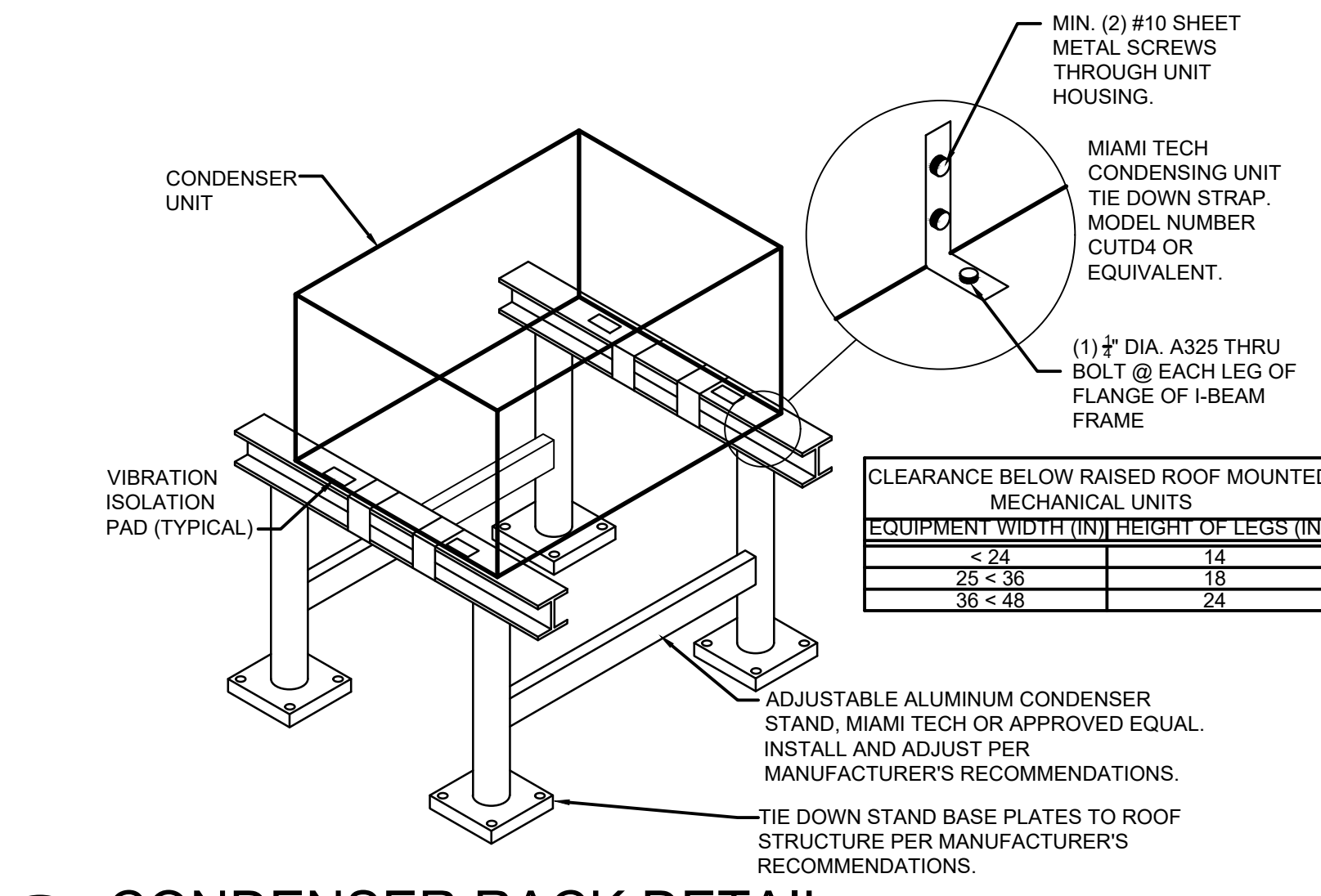
**PART III - EXECUTION**

3.01 SCOPE

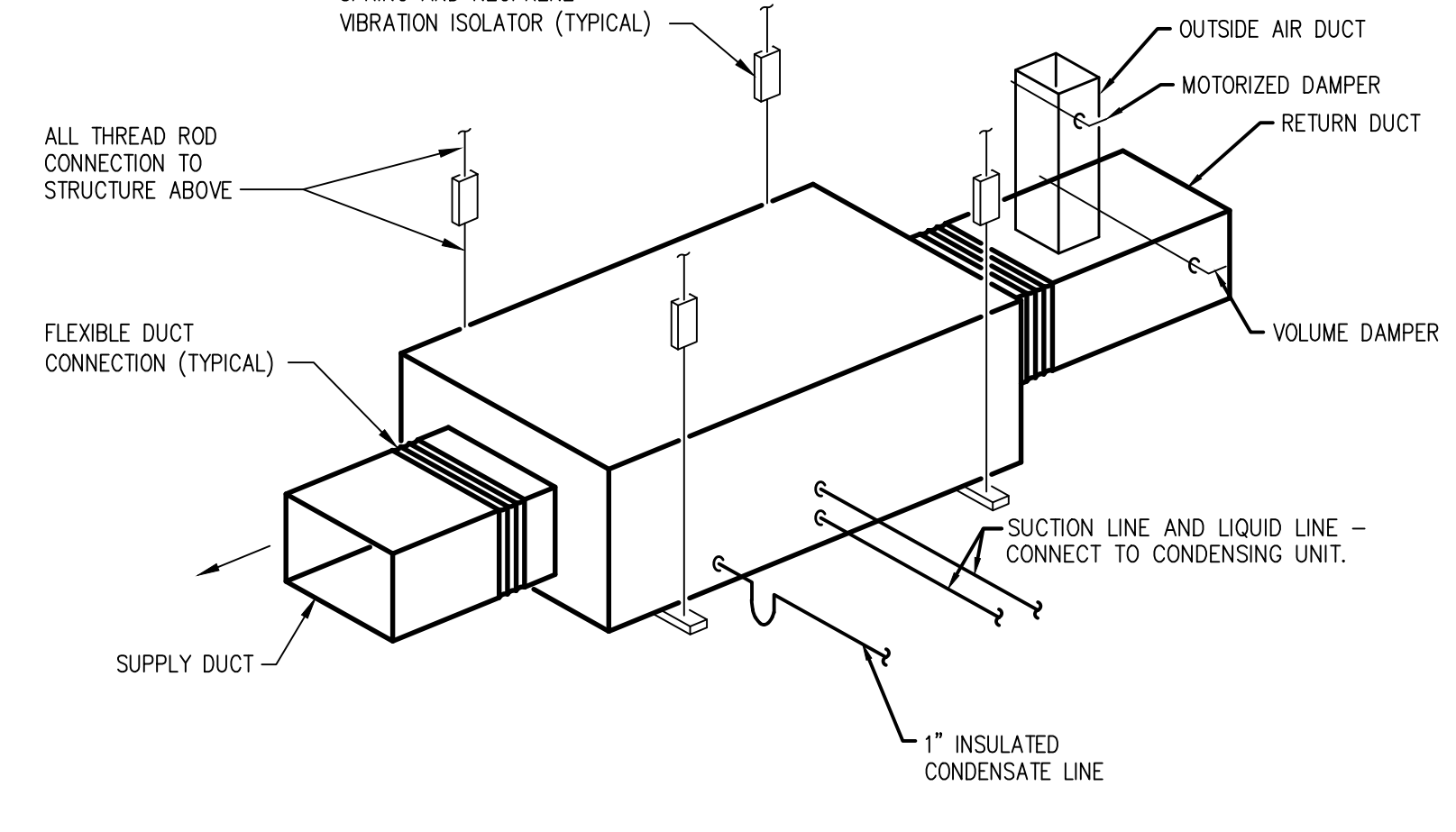
- FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.
- OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NCI OR ASBC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR 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.
- 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.
- 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.
- CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.

3.03 TEST & BALANCE

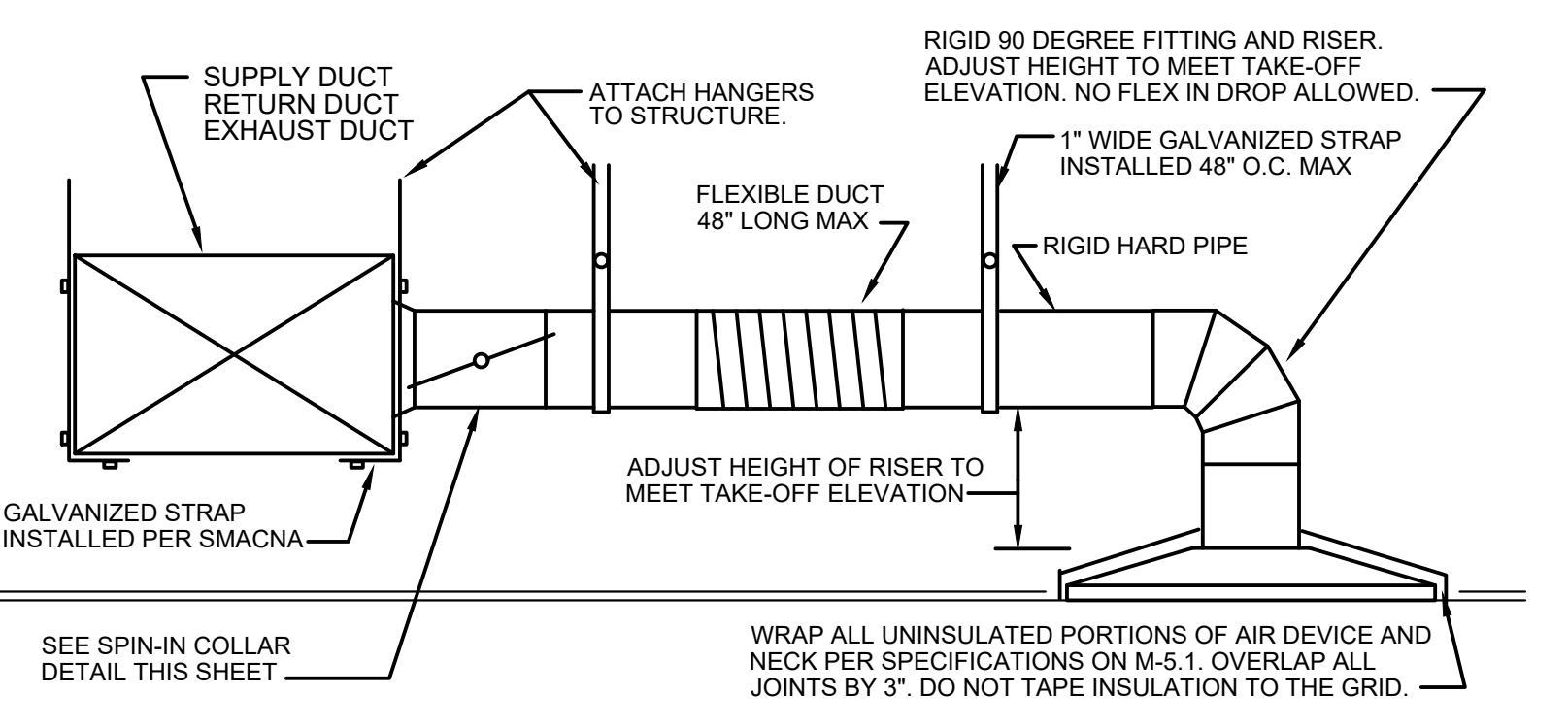
- OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NCO OR ASBC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.
- ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.
- 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.
- EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC.
- PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.
- THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.



5 CONDENSER RACK DETAIL  
SCALE: N.T.S.



4 TYPICAL SUSPENDED AHU DETAIL  
SCALE: N.T.S.



3 SAG/RAG/GRILLE TAKE-OFF  
SCALE: N.T.S.

**NATIONAL ACCOUNTS**

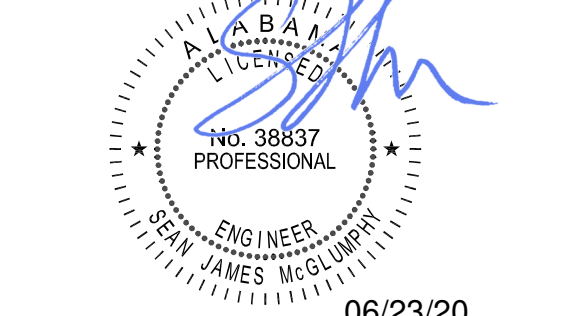
- LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6280 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
- PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.
- SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.
- ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.



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



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Architect No. N/A  
Landscape No. N/A



06/23/20

**CHICK-FIL-A**  
PHENIX CITY CFA  
MODULAR ADDITION

**FSR#01815**

BUILDING TYPE / SIZE:  
RELEASE:

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 29114  
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DATE 06-19-20  
DRAWN BY S.J.M.

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SHEET  
MECHANICAL  
SCHEDULES

SHEET NUMBER  
**M201.MOD**

BIM 360//AL\_01815\_Phenix\_City\_Phenix\_City\_ARC\_Building Addition A.rvt  
6/22/2020 4:53:16 PM  
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