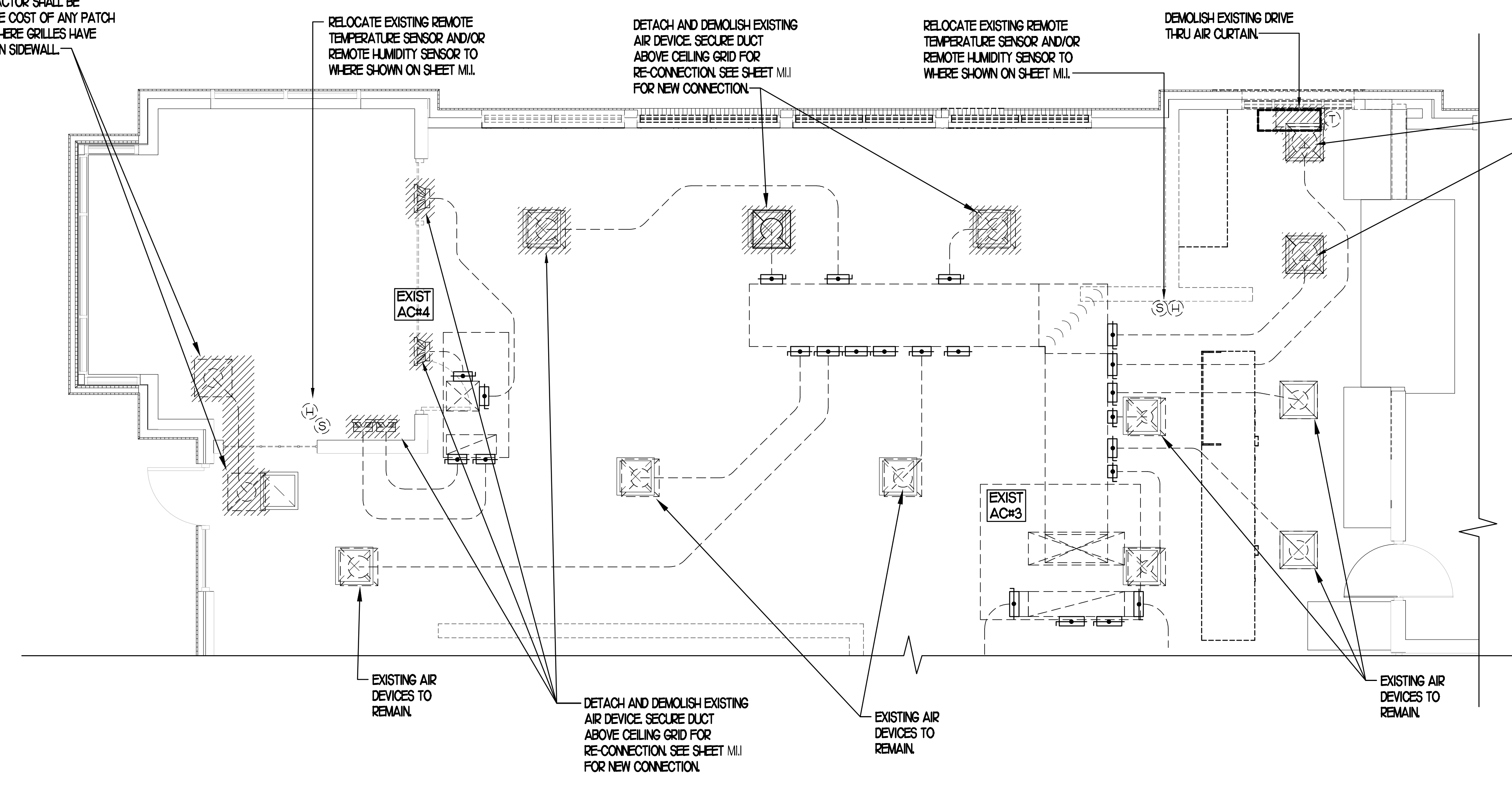
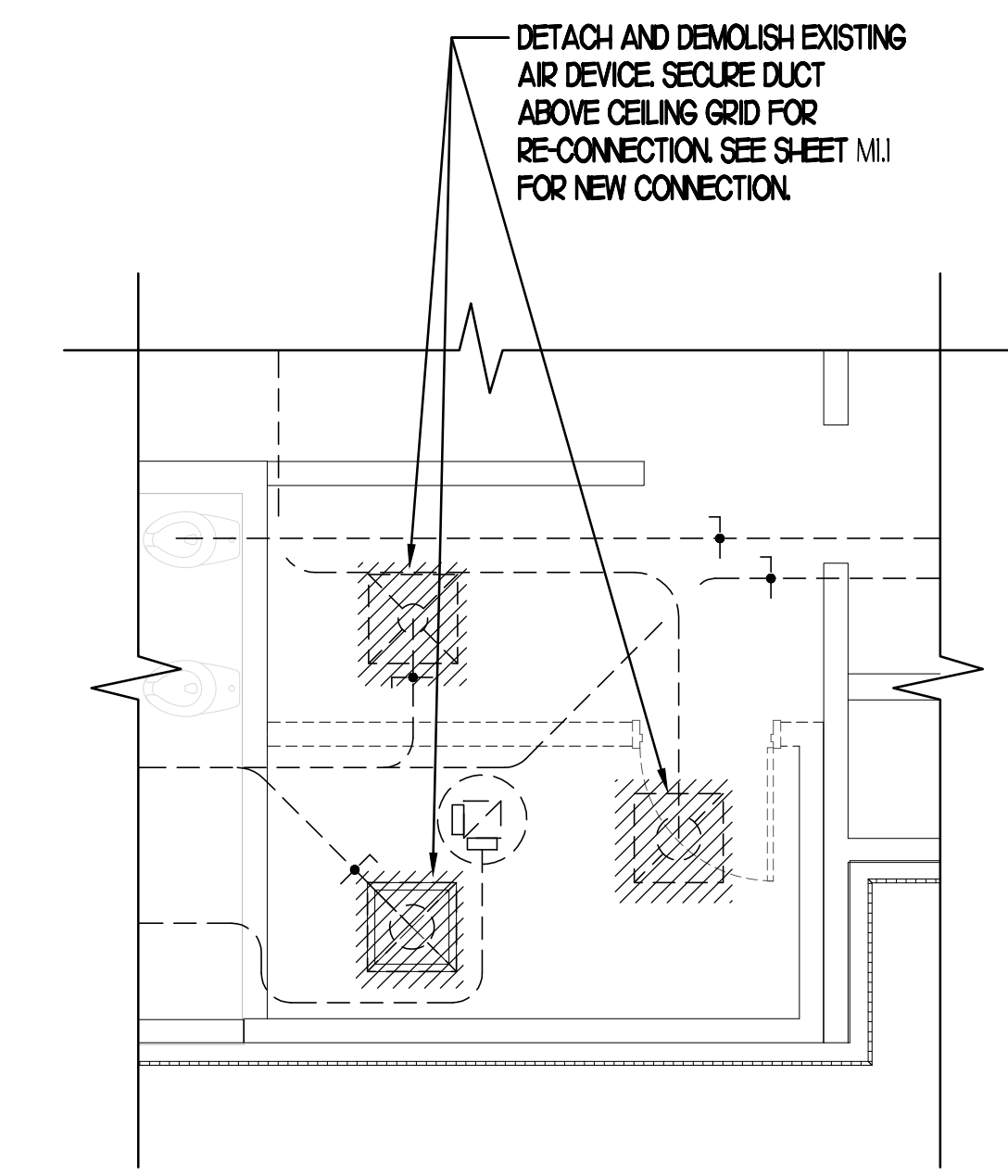


DEMOLISH EXISTING AIR DEVICES AND TRANSFER DUCT ABOVE CEILING. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY PATCH AND REPAIR WORK WHERE GRILLES HAVE BEEN REMOVED WITHIN SIDEWALL.



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

DETACH AND DEMOLISH EXISTING AIR DEVICE. SECURE DUCT ABOVE CEILING GRID FOR RE-CONNECTION. SEE SHEET MJI FOR NEW CONNECTION.



2 MECHANICAL DEMOLITION OFFICE PLAN
SCALE: 1/4"=1'-0"

DEMOLITION NOTES

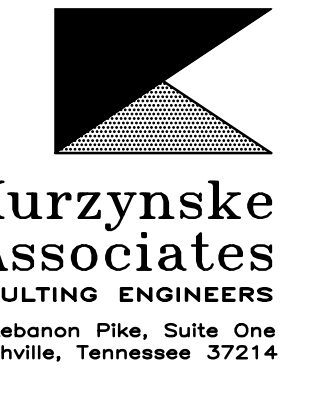
- 1 CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- 2 DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
- 3 DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE 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.

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

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



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



HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THEY COMPLY WITH ALL RULES, REGULATIONS, AND ORDINANCES OF DEDHAM, MA RELATING TO STRUCTURES AND BUILDINGS.



9-23-23

**CHICK-FIL-A
DEDHAM**

140 PROVIDENCE HWY
DEDHAM, MA 02026

FSR#03683
INTERNAL DRIVE-THRU EXPANSION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # RO 23070
PRINTED FOR FOR CONSTRUCTION
DATE 06/09/2023
DRAWN BY BF
CHECKED BY MK

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SHEET MECHANICAL DEMO PLAN

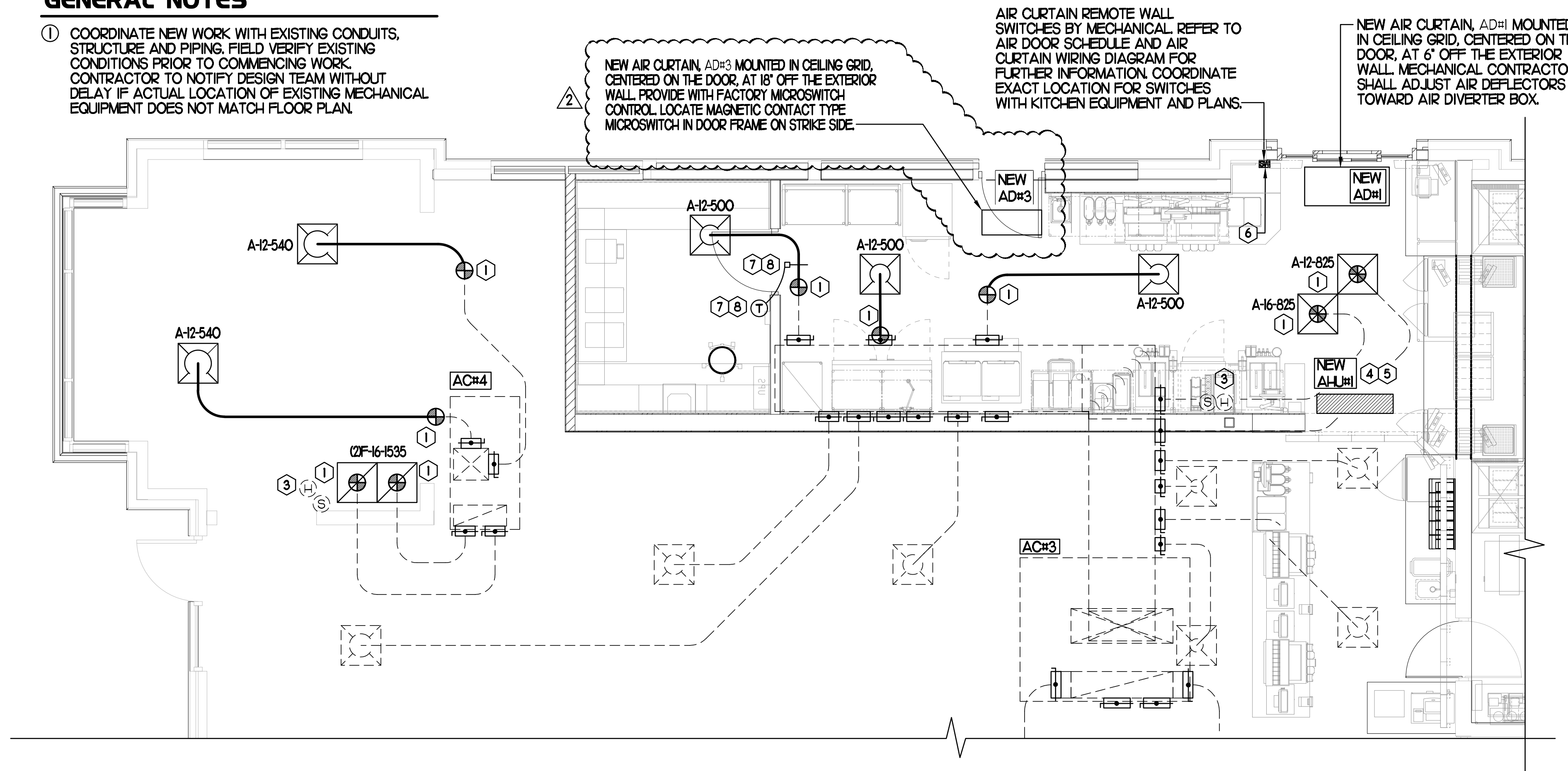
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M0.1

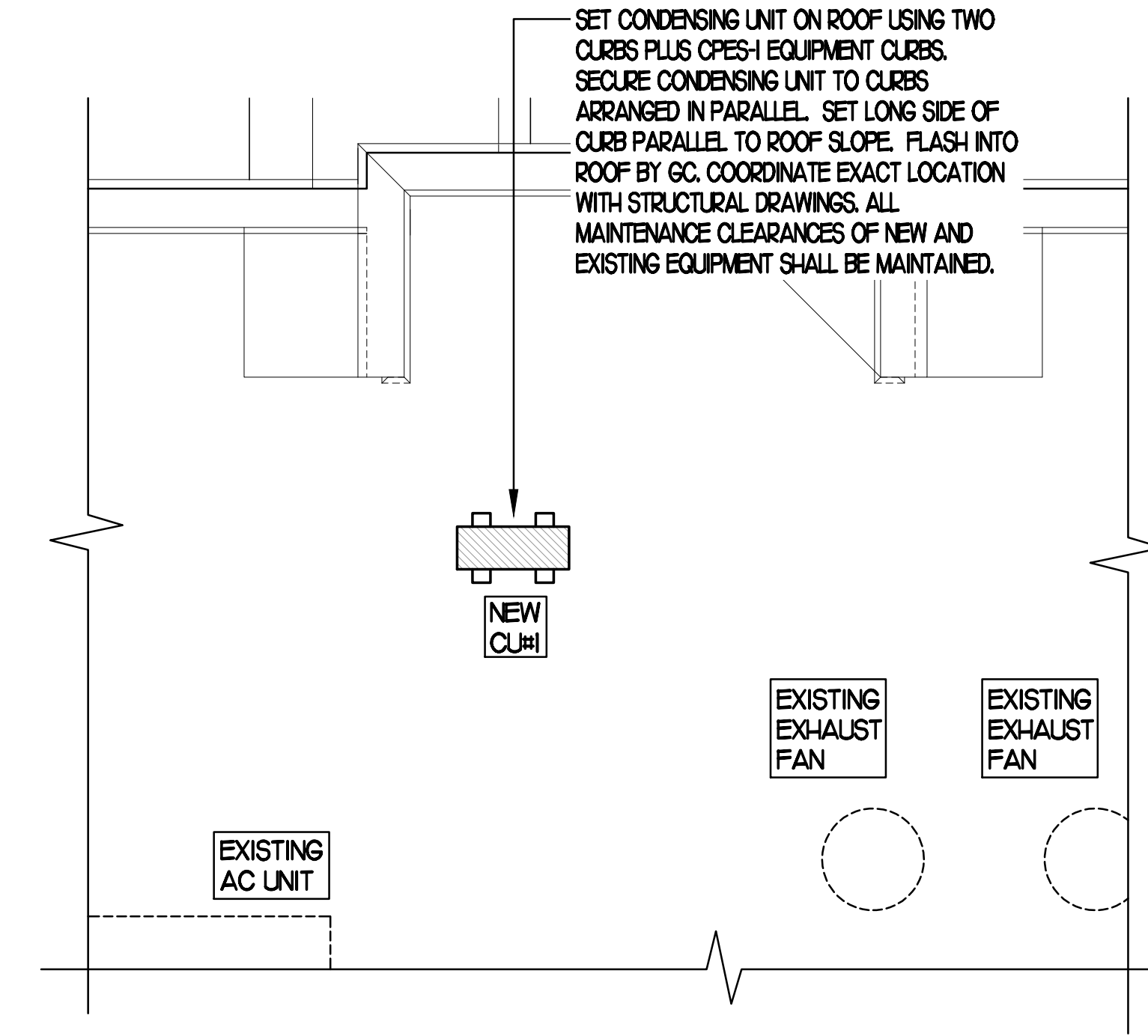
ISSUED FOR CONSTRUCTION

GENERAL NOTES

- 1. 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.



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



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

LEGEND		KEY NOTE REFERENCE	
A-12-400	TYPE - NECK SIZE - CFM	1	KEY NOTE REFERENCE
+	SPIN-IN FITTING, MVD, NO SCOOP	2	EXISTING START COLLAR
+	SPIN-IN HARD Ø FLEXIBLE Ø DIFFUSER	3	EXISTING RUNNOUT TO REMAIN
⊙	REMOTE TEMPERATURE SENSOR	4	EXISTING RETURN/EXHAUST (TYP)
⊕	REMOTE HUMIDITY SENSOR	5	EXISTING SUPPLY DIFFUSER (TYP)
		6	EXISTING DUCT (TYP)

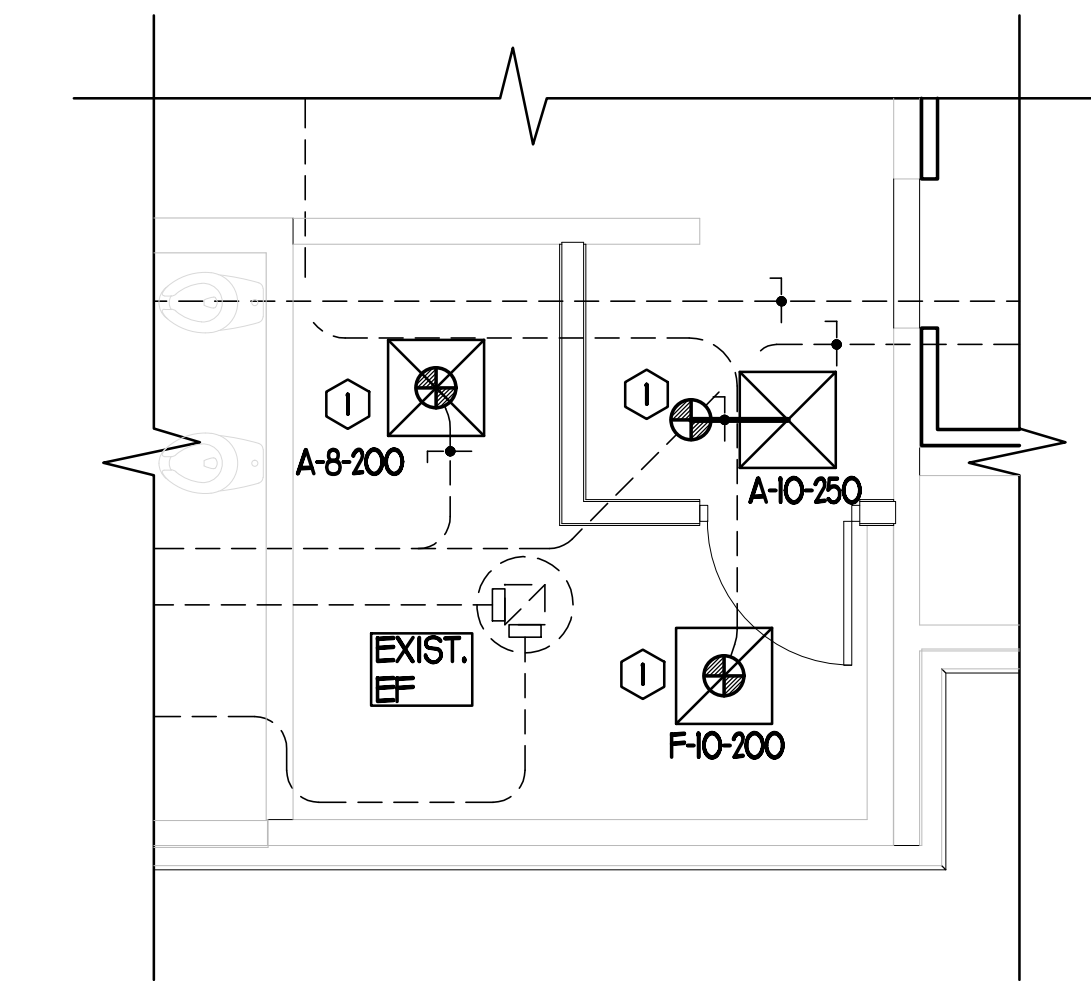
DUCTLESS SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE													
MARK	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		EFFICIENCIES		FAN SECTION (CFM)		ELECTRICAL DATA		R-410A MODEL		MFR
	MIN	MAX	MIN	MAX	SEER	HSPFF	AIR FLOW (MET)	MCA	MOCP	VOLTAGE	AHU	CU	
AH1/OUH (NEW)	11.0	39.0	9.5	47.0	18.6	10.1	635-790-830	2.4	35	208V/160	A0026BNDCHAA	A0036BVDCHAA	SAMSUNG
NOTES	<ul style="list-style-type: none"> 1. MECHANICAL CONTRACTOR SHALL PURCHASE THE SPLIT SYSTEM HEAT PUMP DIRECTLY FROM SAMSUNG. CONTACT MR. CHRIS LOMAX/CHAD FISHER AT 479-957-1277 / 479-256-0790, FOR PRICING AND AVAILABILITY. 												
REMARKS	<ul style="list-style-type: none"> 1. ELECTRICIAN TO PROVIDE NON-FUSED DISCONNECT. 2. MECHANICAL TO PROVIDE AND INSTALL REFRIGERANT PIPING AS PER MFR RECOMMENDATIONS. 3. PROVIDE ENGRAVED PLASTIC LABEL AT AHU AND CU WITH HIGH WHITE LETTERS ON A BLACK BACKGROUND RIVETED TO UNIT CABINET. 4. PROVIDE WITH ADEQUATE REFRIGERANT LINE SET. FIELD VERIFY DISTANCE FROM WHERE CONDENSER IS TO BE SET TO AIR HANDLER LOCATION PRIOR TO ORDERING. 5. PROVIDE OUTDOOR UNIT WITH SNOW ACCUMULATION PREVENTION OPTION. 6. PROVIDE WITH WALL MOUNTED THERMOSTAT (MMR-WISCOLN). USE TWO-WIRE, STANDARD, NON-POLAR CONTROL WIRE TO CONNECTOR COM2 ON INDOOR UNIT CONTROLLER. PROGRAM THERMOSTAT CONTROLS TO MATCH DRIVE-THRU SETPOINTS. 7. PROVIDE MIN-84 CONNECTOR AT INDOOR UNIT (CONNECTOR C83). WIRE ORANGE AND RED WIRES TO SPARE POLE ON RELAY R4 IN SUNCOAST T-500 PANEL (TERMINALS 5 AND 6 RESPECTIVELY) AND CAP THE BROWN WIRE. 8. PROVIDE WITH CONDENSATE PUMP (BLUE DIAMOND MAXI BLUE MODEL# X87-72). 												

AIR DOOR SCHEDULE								
MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
ADH (NEW)	1543	2338	10 KW	3/4	DRIVE THRU	GHA-148HD	POWERED-AIRE	1235
AD2 (EXIST)	-	-	-	-	REAR DOOR	EXISTING	EXISTING	-
AD3 (NEW)	1268	2757	NA	3/4	DRIVE THRU DOOR	GHA-136	POWERED-AIRE	124
NOTES	<ul style="list-style-type: none"> 1. 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 404-951-0101, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED. 							
REMARKS	<ul style="list-style-type: none"> 1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING. 2. FACTORY WIRED DISCONNECT. 3. FACTORY PROVIDED, FIELD INSTALLED REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE AIR CURTAIN WIRING DIAGRAM DETAIL. 4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET. UNIT TO BE MOUNTED PER FOUR 3/8" - 16-THREAD INSERTS FOR INSTALLING RODS. RODS SHALL NOT EXTEND MORE THAN 3/4" INTO AIR CURTAIN. 5. PROVIDE WITH DIVERTER BOX FROM TOM BARROW COMPANY. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL PER MANUFACTURER'S MOUNTING INSTRUCTIONS. 							

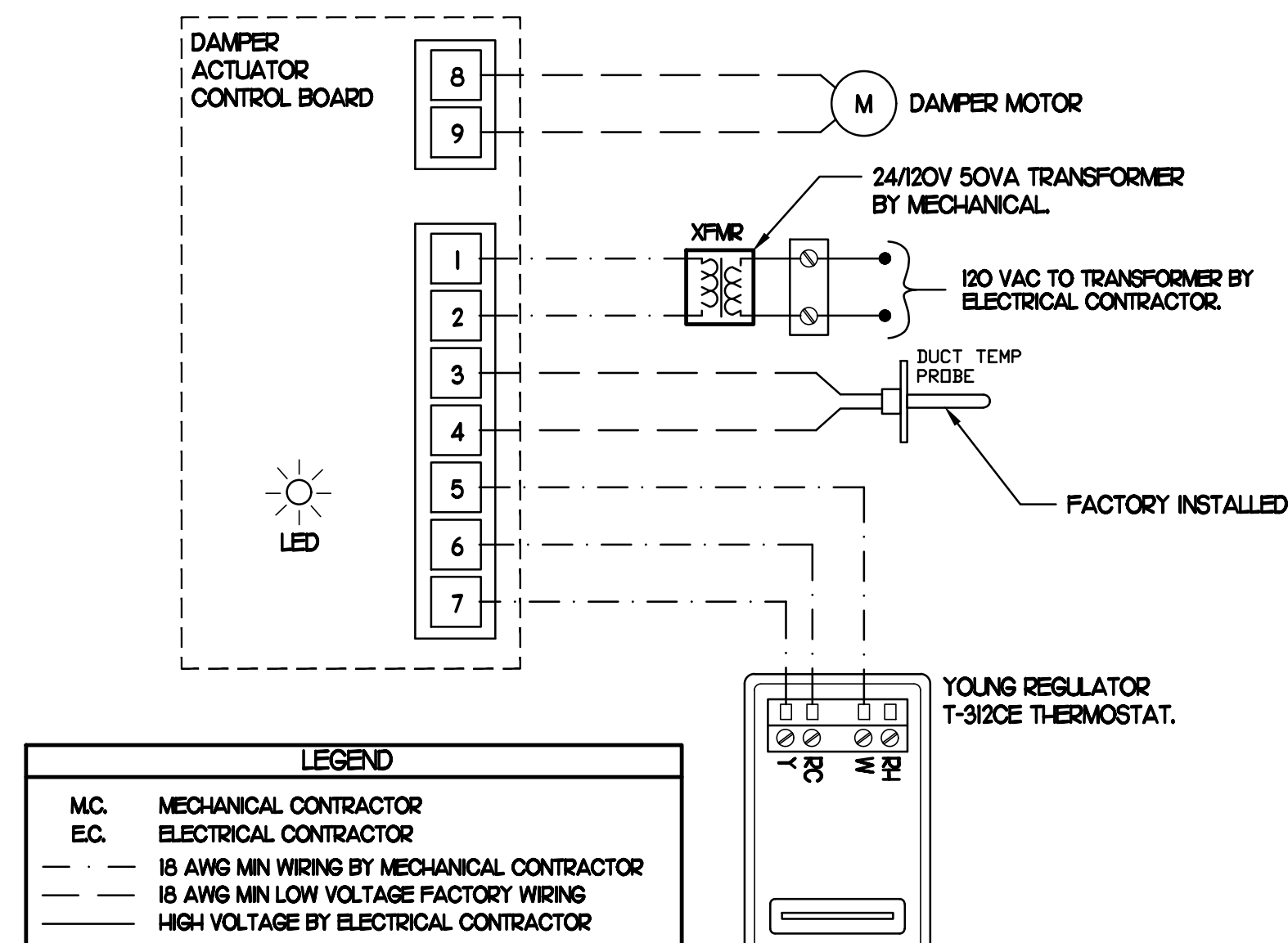
LEGEND		KEY NOTE REFERENCE	
A-12-400	TYPE - NECK SIZE - CFM	1	KEY NOTE REFERENCE
+	SPIN-IN FITTING, MVD, NO SCOOP	2	EXISTING START COLLAR
+	SPIN-IN HARD Ø FLEXIBLE Ø DIFFUSER	3	EXISTING RUNNOUT TO REMAIN
⊙	REMOTE TEMPERATURE SENSOR	4	EXISTING RETURN/EXHAUST (TYP)
⊕	REMOTE HUMIDITY SENSOR	5	EXISTING SUPPLY DIFFUSER (TYP)
		6	EXISTING DUCT (TYP)

KEY NOTES (THIS SHEET ONLY)

- 1. CONNECT NEW AIR DEVICE TO EXISTING TAKE-OFF (OR NEW BRANCH DUCT TO EXISTING). 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 1A/2.1. COORDINATE AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- 2. NOT USED
- 3. RELOCATE EXISTING REMOTE TEMP SENSOR FOR ROOFTOP UNIT ON WALL SHOWN AT 5'-0" AFF (OR ABOVE) WAINSCOTTING IF APPLICABLE. ROUTE NEW WIRING FOR REMOTE TEMP SENSOR TO TSTAT IN TEMP CONTROL CABINET. ROUTE NEW WIRING FOR HUMIDITY SENSOR TO UNIT ON ROOF.
- 4. MOUNT AIR HANDLER ON OVER-HEAD WALL ABOVE CASER OPENING. MOUNT UNIT AT 12" ABOVE CASER OPENING. ROUTE REFRIGERANT PIPING ABOVE CEILING AND UP THRU ROOF TO CONDENSING UNIT, CUH, SEE ROOF PLAN, THIS SHEET. FOR CONDENSING UNIT LOCATION, REFRIGERANT PIPING BELOW ROOF SHALL BE HIDDEN WITHIN WALLS AND CEILINGS.
- 5. ROUTE CONDENSATE FROM AH-UH1 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.
- 6. MOUNT AH-UH1 THERMOSTAT ON WALL NEXT TO ADH1 REMOTE WALL SWITCHES. SEE SCHEDULE ON THIS SHEET FOR INTERLOCK WITH T500 PANEL.
- 7. YOUNG REGULATOR 10" MODEL 2010 ROUND ZONE DAMPER WITH MODEL T-312CE AUTOMATIC CHANGE-OVER THERMOSTAT. MOUNT TSTAT AT 4'-0" AFF. POWER OPEN/SPRING 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 404-951-0101, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
- 8. 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 M21 FOR MORE INFORMATION.



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



LEGEND	
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
---	18 AWG MIN WIRING BY MECHANICAL CONTRACTOR
---	18 AWG MIN LOW VOLTAGE FACTORY WIRING
---	HIGH VOLTAGE BY ELECTRICAL CONTRACTOR

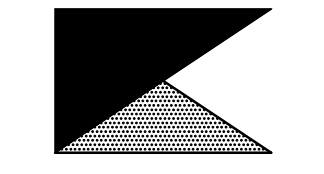
- NOTES**
- 1. SEE DWG M11 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
 - 2. 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND HOT 24/7.
 - 3. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM.

- SEQUENCE OF OPERATION**
- 1. WHEN THE SUPPLY AIR TEMPERATURE IS LESS THAN 77°F THE DAMPER WILL OPEN FULLY ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
 - 2. WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 77°F THE DAMPER WILL OPEN FULLY ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.

1 OFFICE VAV DAMPER AND TSTAT
NO SCALE



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



Kurzynske & Associates
CONSULTING ENGINEERS
2705 Lebanon Pike, Suite One
Nashville, Tennessee 37214

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THEY COMPLY WITH ALL RULES, REGULATIONS, AND ORDINANCES OF SEVERAL MAJORITY STATES RELATING TO STRUCTURES AND BUILDINGS.



9-23-23

CHICK-FIL-A
DEDHAM
140 PROVIDENCE HWY
DEDHAM, MA 02026

FSR#03683
INTERNAL DRIVE-THRU EXPANSION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
2	09/29/2023	Issue for Construction

ISSUED FOR CONSTRUCTION

CONSULTANT PROJECT # RO 23070
PRINTED FOR FOR CONSTRUCTION
DATE 06/09/2023
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SHEET
MECHANICAL FLOOR PLAN

SHEET NUMBER
M1.1



COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Chick-fil-A #3683
 Location: Dedham, Massachusetts
 Climate Zone: 5a
 Project Type: Alteration

Construction Site: 140 Providence Hwy, Dedham, MA 02026
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349
 Designer/Contractor: Kurzynske & Associates, 2900 Lebanon Pike Ste. 201, Nashville, TN 37214, 615-255-5203

Mechanical Systems List

Quantity System Type & Description
 1 AHU#1/CU#1 (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

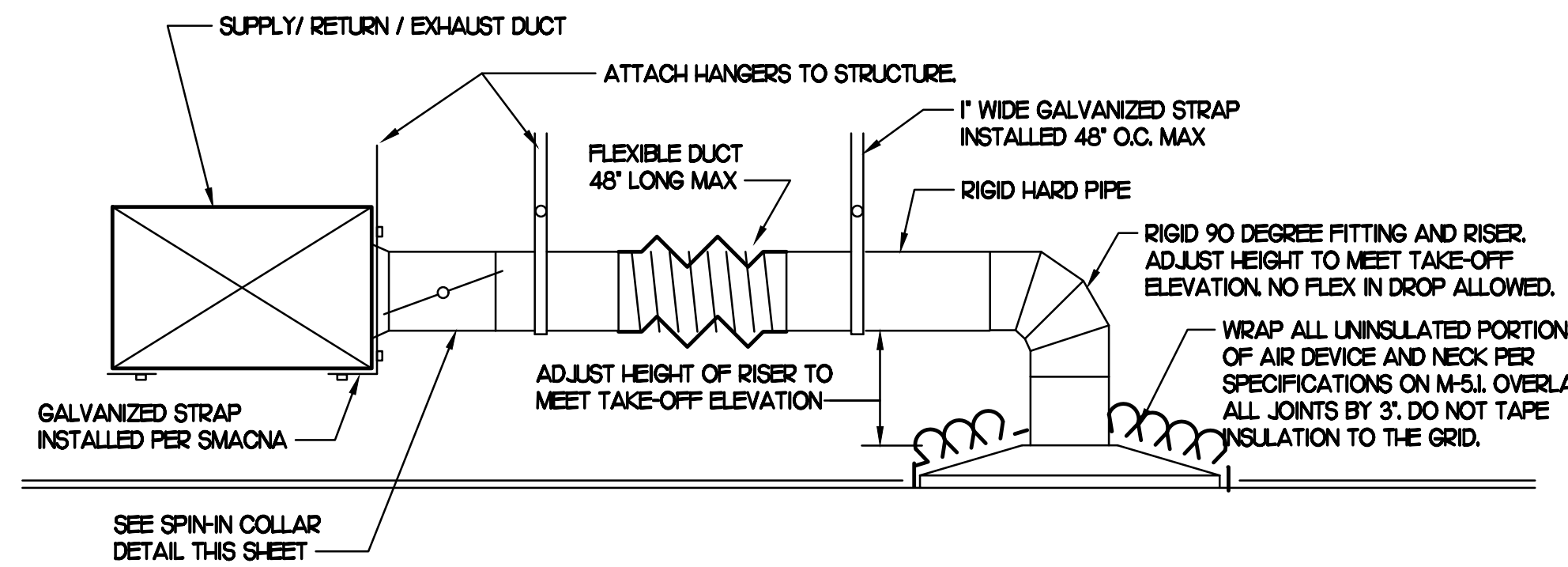
Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project 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 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

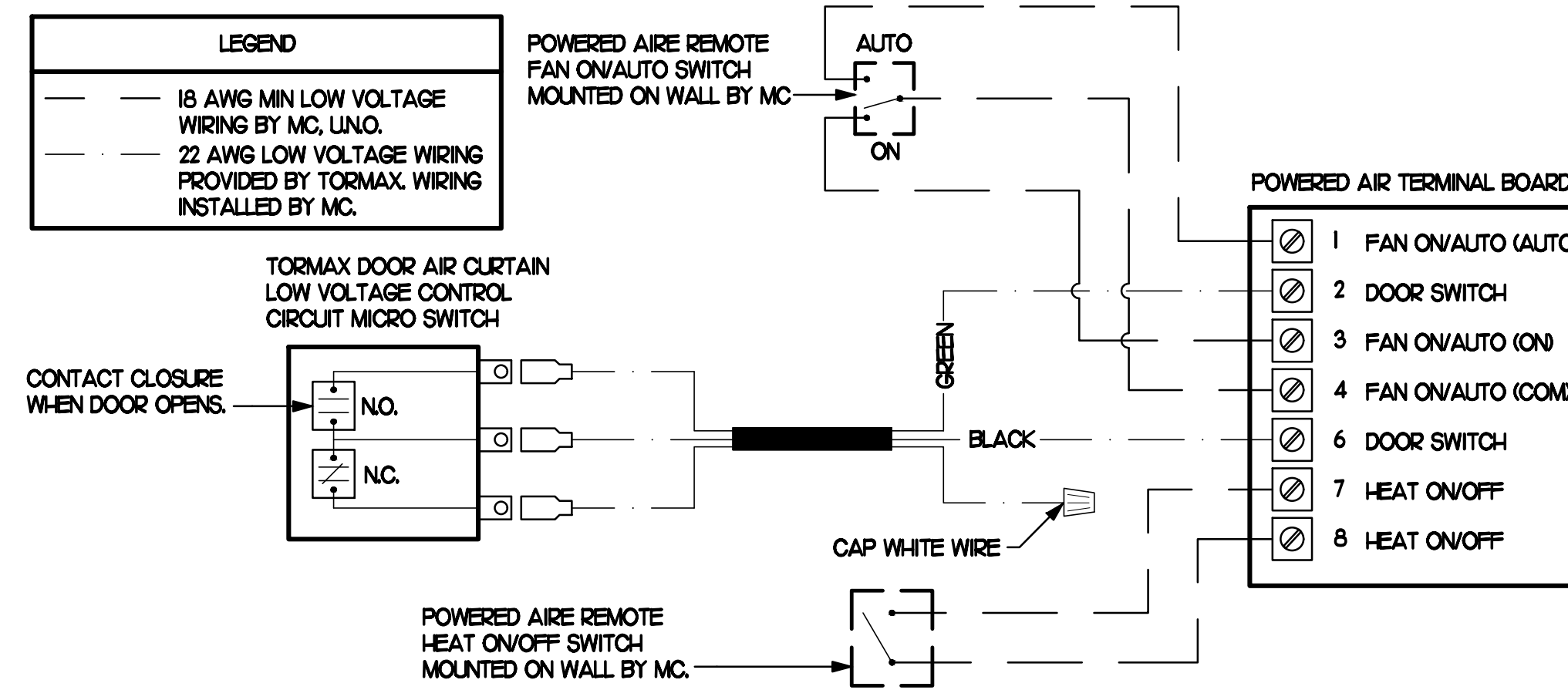
Name - Title Signature Date

Project Title: Chick-fil-A #3683 Report date: 06/01/23
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2023\Roll-outs\RO.23070 - Dedham, MA - 3683\ComCheck\CFA#03683 - Mechanical ComCheck.cck Page 1 of 9

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSERS WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING AREA	SEE PLAN	24X24	LAY-IN	12
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING KITCHEN	SEE PLAN	24X24	LAY-IN	17
NOTES	MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100, 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					

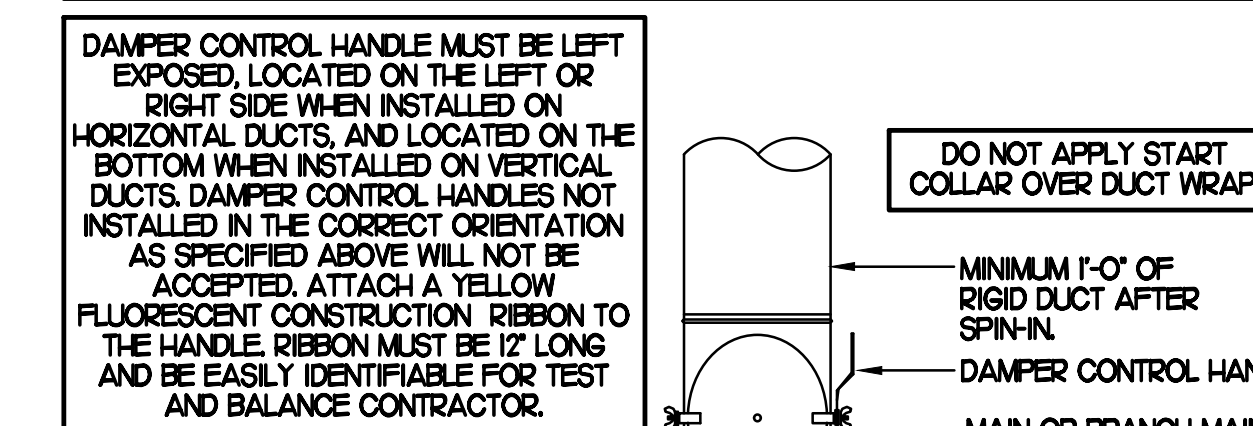


3 SAG/RAG/GRILLE TAKE-OFF
NO SCALE



4 AIR CURTAIN WIRING DIAGRAM
NO SCALE

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL START COLLARS. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-0100 FOR PRICING AND AVAILABILITY. ROYAL METAL START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.



2 START COLLAR
NO SCALE

I. 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.

PART II - PRODUCTS

- 2.02 DUCTWORK (C15735)
 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 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. 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 FOIL/KRAFT FACING.
 F. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
 G. 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.
 H. 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.
 I. 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 M1.2.

- J. 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.
 K. 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.
 L. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.
 M. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".
 N. 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.
 O. 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 EXISTING CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.
 B. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO

PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

PART III - EXECUTION

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

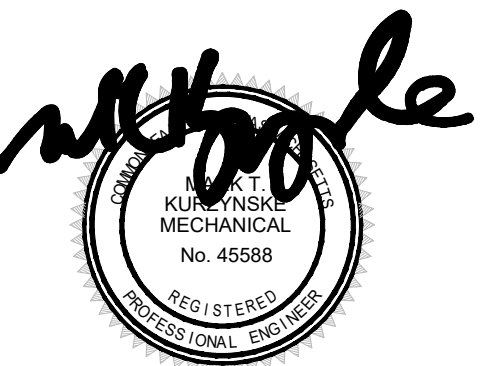


Chick-fil-A
 5200 Buffington Road
 Atlanta, Georgia
 30349-2998



Kurzynske & Associates
 CONSULTING ENGINEERS
 2705 Lebanon Pike, Suite One
 Nashville, Tennessee 37214

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THEY COMPLY WITH ALL RULES, REGULATIONS, AND ORDINANCES OF SEVERAL MA RELATING TO STRUCTURES AND BUILDINGS.



9-23-23

CHICK-FIL-A
DEDHAM

140 PROVIDENCE HWY
 DEDHAM, MA 02026

FSR#03683
 INTERNAL DRIVE-THRU EXPANSION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # RO.23070
 PRINTED FOR FOR CONSTRUCTION
 DATE 06/09/2023
 DRAWN BY BF
 CHECKED BY MK

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SHEET MECHANICAL COMCHECK

SHEET NUMBER

M2.1

ISSUED FOR CONSTRUCTION