

FIELD VERIFY ALL CONDITIONS

NOTE: AS NOTED IN THE SPECIFICATIONS, ALL WIRING LAYOUTS, PIPING LAYOUTS AND DUCT LAYOUTS ARE SCHEMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONSTRUCTION AND STRUCTURE OF THE BUILDING AND SHALL BE VERIFIED AND COORDINATED IN THE FIELD. EACH TRADE CONTRACTOR SHALL VERIFY WITH THE GENERAL CONTRACTOR THAT HE HAS THOROUGHLY REVIEWED AND COORDINATED ALL LOCATIONS AND ROUTINGS WITH ALL OTHER TRADES PRIOR TO FABRICATION OF CONDUITS, DUCTS, OR PIPING, AND START OF INSTALLATION OF SAME (INCLUDING SPRINKLER PIPING WHEN PRESENT ON JOB). ANY INSTALLATION OR CONSTRUCTION CONFLICTS WHICH OCCUR IN THE FIELD SHALL BE RESOLVED BY THE TRADE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ARCHITECT AND AT NO EXPENSE TO THE OWNER, ARCHITECT AND/OR GENERAL CONTRACTOR.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

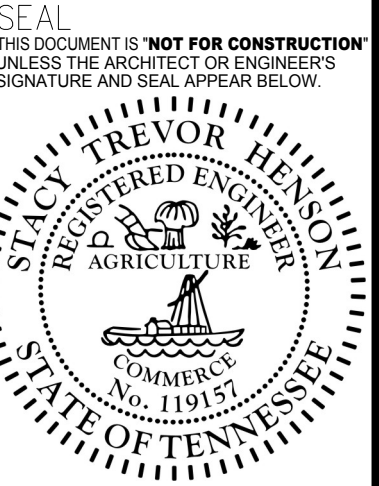


Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

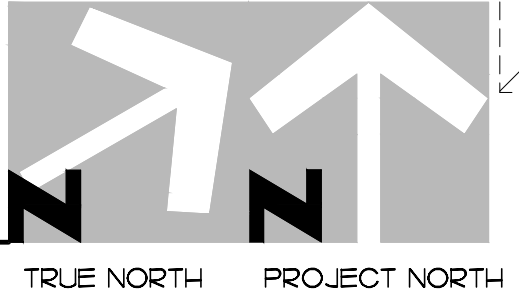
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STACY HENSON, P.E.

MECHANICAL DEMOLITION PLAN

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



DEMOLITION NOTES

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- DISPOSAL OF EQUIPMENT AND MATERIALS REQUIRED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK.
- DE-ENERGIZE ALL ELECTRICAL CIRCUITS RELATED TO EQUIPMENT THAT WILL BE MOVED OR REMOVE PRIOR TO STARTING WORK. DE-ENERGIZE CIRCUITS SHALL BE PROTECTED WITH LOCKING DEVICES USING APPROPRIATE WARNING LABELS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ROOF AFTER REMOVAL OF EXISTING MECHANICAL EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ROOF PATCHING REQUIREMENTS.
- EXCEPT WHERE NOTED, EXISTING REMOTE TEMPERATURE AND/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.
- MECHANICAL CONTRACTOR SHALL PERFORM ROUTINE MAINTENANCE ON EXISTING ROOFTOP UNITS AND MAKE ANY NECESSARY REFRIGERANT WITH NO LEAKS, NEW BELTS AND REPLACE AND FAN MOTORS NECESSARY.
- DISCONNECT GAS PIPING FROM EXISTING ROOFTOP UNIT(S) TO BE REPLACED. PLUMBING CONTRACTOR WILL REMOVE EXISTING GAS PIPING TO BE DEMOLISHED.
- CONTRACTOR SHALL INDICATE SALVAGE VALUE IN BID FOR ROOFTOP UNITS BEING REPLACED.

DEMOLITION KEY NOTES

- DETACH AND DEMOLISH EXISTING AIR DEVICE SEE SHEET M.I. FOR NEW AIR DEVICE LOCATIONS.
- EXISTING AIR CURTAIN TO REMAIN.
- REPLACE EXISTING KITCHEN A/C UNIT AND, SUPPLY/RETURN AIR DROPS, ALL ASSOCIATED SUPPLY/RETURN DUCT, AIR DEVICES AND TEMPERATURE SENSOR. CAP, SEAL AN COVER EXISTING ROOF CURB WEATHER-TIGHT. DISCONNECT GAS, ELECTRICAL, AND UNIT CONTROLS FROM EXISTING ROOFTOP UNIT. EXISTING ROOFTOP UNIT TO BE REPLACED WITH NEW AS SCHEDULED ON SHEET M3.I. SEE SHEETS M.I. AND M3.I FOR FURTHER INFORMATION.
- DEMOLISH EXISTING KITCHEN HOOD, ALL ASSOCIATED GREASE DUCT, AND EXHAUST FAN ON ROOF WITH CURB. COVER ROOF OPENING WEATHER-TIGHT FOR RE-USE. SEE SHEET M.I. M2.I AND M3.I FOR FURTHER INFORMATION. FIELD VERIFY AND COORDINATE ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
- RELOCATE EXISTING AIR CURTAIN. REFER TO SHEET M.I. FOR FURTHER INFORMATION.
- EXISTING AIR DEVICE TO REMAIN. REFER TO SHEET M.I. FOR FURTHER INFORMATION.
- EXISTING A/C UNIT AND ASSOCIATED DUCTWORK AND APPURTENANCES TO REMAIN.

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 ON SHEET M-3.I. IF AIRFLOWS DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER. TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER.
- CONTRACTOR TO VERIFY LOCATION AND CONDITION OF ALL EXISTING DUCTWORK TO BE REUSED. PATCH AND REPAIR AS REQUIRED PRIOR TO BID AND CONSTRUCTION.
- 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 TEST BALANCE, INSPECT, REPAIR, OR REPLACE. 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.

DEMOLITION LEGEND

	EXISTING EQUIPMENT, DUCT, AIR DEVICES ETC. TO REMAIN INTACT.
	EXISTING EQUIPMENT, DUCT, AIR DEVICES ETC. TO BE DEMOLISHED.

LEGEND

A-12-400	TYPE: NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	ACH#1	AIR CONDITIONING UNIT #1 (TYP)
	SPIN-IN HARD/0 FLEXIBLE O DIFFUSER		RETURN/EXHAUST (TYP)
	EXISTING EQUIPMENT, DUCT, & AIR DEVICE		SUPPLY DIFFUSER, SQ FACE (TYP)
	NEW EQUIPMENT, DUCT, & AIR DEVICE		PLAN NOTE REFERENCE
	REMOTE TEMPERATURE SENSOR		MANUAL VOLUME DAMPER
	HUMIDITY SENSOR		DIRECTION OF THROW ON DIFFUSER
	STROBE AUDIO/VISUAL ALARM-ANNUNCIATOR		CO2 SENSOR
	DUCT SIZE (REVERSE FOR ELEVATION VIEWS)		PULL STATION
12X18	1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		CONTROL PANEL
	POINT OF DISCONNECTION.		SMOKE DETECTOR
	POINT OF CONNECTION.		
	INDICATES 2-WAY DIFFUSER. INDICATES BLANKED OFF SIDE		

INTERPLAN:

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STORE
UNION AVENUE FSU
S08E-R

1980 UNION AVE.
MEMPHIS, TN. 38104

SHEET TITLE
FLOOR PLAN
CENTER LINE
KITCHEN

VERSION: S08E-R
ISSUE DATE: 06-2015

Job No. : 17.0134
Store : 2308
Date : 08.15.17
Drawn By : DG
Checked By : JL

Sheet

M-I-O

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HVAC KEY NOTES

- 1 PROVIDE NEW ELECTRIC COOLING/ GAS HEATING ROOFTOP UNIT WITH PRE-FABRICATED, MINIMUM 14" INCH INSULATED ROOF CURB. MAINTAIN MINIMUM HEIGHT OF 8 INCHES FROM ROOF SURFACE. REFER TO HVAC SCHEDULE ON SHEET M-3.1. FIELD VERIFY AND COORDINATE WITH STRUCTURAL AND ALL LOCAL AND STATE REQUIREMENTS PRIOR TO BID AND CONSTRUCTION.
- 2 FIELD VERIFY EXHAUST AIR MAINTAINS A 10 FOOT MINIMUM CLEARANCE FROM ANY FRESH AIR INTAKE AND COMPLIES WITH ALL CODE REQUIREMENTS.
- 3 MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- 4 C-J#3 MOUNTED INSIDE CABINERY SERVING SCJ PLENUM. SEE DETAIL 2/M2-1.
- 5 PROVIDE NEW AIR DEVICE. MAXIMUM LENGTH OF FLEXIBLE DUCT RUN-OUT IS 4 FEET NO EXCEPTIONS. FIELD VERIFY & COORDINATE LOCATIONS PRIOR TO BID & CONSTRUCTION. RE-BALANCE AIR QUANTITY AS SHOWN ON PLAN. PROVIDE WITH MANUAL VOLUME DAMPER WITH ACCESSIBILITY. ANY DEFICIENCIES AND OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY.
- 6 PROVIDE NEW 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 M4.1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- 7 EXISTING AIR DEVICE TO REMAIN. CONTRACTOR SHALL CLEAN & REFURBISH ALL EXISTING AIR DEVICES TO "LIKE NEW" CONDITION, AND SHALL BALANCE, INSPECT, REPAIR, OR REPLACE AS NECESSARY IF REQUIRED. RE-CONNECT AIR DEVICES TO MATCH DUCT FITTING AND REPLACE IN CEILING/WALL. PATCH AND REPAIR CEILING/WALL WHERE NECESSARY. FIELD VERIFY AND COORDINATE EXACT SIZE, AIR QUANTITY, LOCATION, AND CONDITION PRIOR TO BID AND CONSTRUCTION. ANY DEFICIENCIES AND OR DISCREPANCIES SHALL BE REPORTED TO ARCHITECT/ENGINEER IMMEDIATELY. COORDINATE AIR BALANCE RESULTS WITH CONSTRUCTION MANAGER.
- 8 STRONG SYSTEMS SHALL SUPPLY AND INSTALL CO2 SENSOR ANALOG- AX60. 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 MANUFACTURERS 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.
- 9 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 MANUFACTURERS 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.
- 10 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 MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODE. FIELD VERIFY EXACT LOCATION AND ALL REQUIREMENTS PRIOR TO BID AND CONSTRUCTION. COORDINATE WITH ELECTRICAL DRAWING E2.2 FOR EXACT LOCATION. FOR MORE INFORMATION CONTACT : STRONG SYSTEMS INTERNATIONAL, INC. CHRIS VERCH (770) 729-1199 OR (770) 462-2501.
- 11 PROVIDE RUSKIN CD35 MANUAL BALANCING DAMPER WITH 6" MAXIMUM BLADE WIDTH, OPPOSED BLADE ACTION, LOCKING QUADRANT HANDLE WITH 2" STANDOFF AND 16 GA GALVANIZED BLADE AND FRAME CONSTRUCTION
- 12 CONTRACTOR TO INSTALL OVERFLOW SWITCH INSIDE ROOFTOP UNIT DRAIN PAN, ON DOWN-FLOW UNITS AND ALL OTHER COILS THAT DO NOT HAVE A SECONDARY DRAIN AND DO NOT HAVE A MEANS TO INSTALL AN AUXILIARY DRAIN PAN. A WATER-LEVEL MONITORING DEVICE SHALL BE INSTALLED INSIDE THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN BECOMES RESTRICTED. EXTERNALLY INSTALLED DEVICES AND DEVICES INSTALLED IN THE DRAIN LINE SHALL NOT BE PERMITTED.
- 13 NEW MANUAL PULL STATION SHALL BE LOCATED 10 FEET MINIMUM TO 20 FEET MAXIMUM FROM HOOD, ONE AT OR NEAR EVERY POINT OF EGRESS FROM THE HOOD COOKING AREA. PULL STATION SHALL BE SECURELY MOUNTED NOT LESS THAN 42" (INCHES) OR MORE THAN 48" (INCHES) FROM THE FLOOR. PROVIDE SIGNAGE FOR PULL STATION.
- 14 PROVIDE A LENNOX FACTORY INSTALLED RETURN AND SUPPLY SIDE SMOKE DETECTOR. REFER TO SCHEDULE ON SHEET M-3.1 AND LENNOX SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM ON SHEET M4.2. SEE ADDED BOXED NOTE SHEET M-3.1 HVAC SCHEDULE REGARDING SUPPLY SIDE SMOKE DETECTOR
- 15 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.

- 16 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.
- 17 PROVIDE NEW KITCHEN HOOD EXHAUST FAN REPLACING THE EXISTING FAN THROUGH THE EXISTING ROOF OPENING. NEW FAN WITH NEW CURB LOCATION SHOWN ON PLAN. LOCATE A MINIMUM OF 10 FT FROM PARAPET WALLS IF PARAPET IS LOWER THAN 42" OR FROM ANY NEW OR EXISTING OUTSIDE AIR INTAKE AS REQUIRED. COORDINATE EXACT LOCATION IN FIELD WITH EXISTING EQUIPMENT AND PIPING.
- 18 SEE ELEVATION ON M2.1 FOR CJ FAN DUCTING REQUIREMENTS.
- 19 EXTEND 56X18 RETURN DUCT HORIZONTALLY BELOW STRUCTURE TO ACCOMMODATE START COLLARS AS REQUIRED.
- 20 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. PROVIDE TURNING VANES IN ALL ELBOWS OF SUPPLY DUCT. COORDINATE SUPPLY DROP PRIOR TO BID AND CONSTRUCTION (TYP) ALL.
- 21 MOUNT NEW LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 22 MOUNT NEW REMOTE TEMPERATURE SENSOR ON WALL AT 5'-0" AFF AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING KITCHEN ACH1, LOCATE SENSOR AT 5'-8" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PRIOR TO BID AND CONSTRUCTION.
- 23 16X36 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. ELBOW TO BE PARTIALLY LOCATED WITHIN STRUCTURE. BOTTOM OF ELBOW TO BE AT SAME ELEVATION AS BOTTOM OF 36X16 SUPPLY MAIN. 36X16 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 36X16 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- 24 18X24 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. 24X18 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 24X18 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- 25 CONTRACTOR SHALL INSTALL NEW DUCT AS REQUIRED. ALL NEW ADDED DUCTWORK SHALL BE RIGID. INSTALL HARD 90'S DOWN TO SUPPLY AIR GRILLES & RETURN AIR GRILLES. SEE TAKE-OFF DETAIL ON SHEETS M4.1 & SPECIFICATIONS ON M5.1. WHERE DUCTWORK IS BEING RE-USED, PROVIDE A 4 INCHES COLLAR ON EACH HVAC DIFFUSER & STRAP & TAPE THE DIFFUSER TO ANY EXISTING DUCTWORK TO REMAIN. SEE DIFFUSERS DETAIL ON SHEET M4.1. INSULATE AND RECONNECT AS REQUIRED (TYP) ALL. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE LOCATIONS WITH LIGHTING AND CEILING LAYOUT AND ALL WALL ELEMENTS AS REQUIRED PRIOR TO BID.
- 26 EXISTING ROOFTOP HVAC UNIT TO REMAIN. MECHANICAL CONTRACTOR TO CLEAN AND ADJUST UNIT, CHEMICALLY CLEAN COILS, PERFORM AN OIL SAMPLE TEST ON COMPRESSORS TO VERIFY CONDITION, REPLACE BELTS, VERIFY ALL CONTROLS ARE FUNCTIONAL AND MAKE SURE ALL EQUIPMENT IS IN PROPER OPERATING CONDITION. REPLACE ANY DEFECTIVE PARTS OR EQUIPMENT. GREASE AND/OR REPLACE IF REQUIRED FAN BEARINGS. CHECK SHAFT FOR SCORING AND CHECK MOTORS FOR PROPER AMPERAGE DRAW. CLEAN OR REPLACE CONDENSATE DRAIN LINE AS REQUIRED. REBALANCE CFM AS SHOWN ON PLANS, RTU SCHEDULE & KITCHEN PRESSURIZATION SCHEDULE. FLUSH UNIT WITH THREE SETS OF STANDARD FILTERS. CONTRACTOR TO REPLACE FILTERS JUST PRIOR TO AIR BALANCE AND ONCE AGAIN AFTER FINAL STORE CLEANING IS COMPLETE. REFER TO ROOFTOP UNIT SCHEDULE SHEET M3.1 FOR FURTHER INFORMATION AND ADDITIONAL REQUIREMENTS. REPORT IN WRITING ANY PROBLEMS WHICH WOULD REQUIRE REPLACEMENT OF ROOFTOP UNIT INSTEAD OF REUSE TO THE TENANTS CONSTRUCTION MANAGER. FIELD VERIFY EXACT CONDITION AND LOCATION PRIOR TO BID.

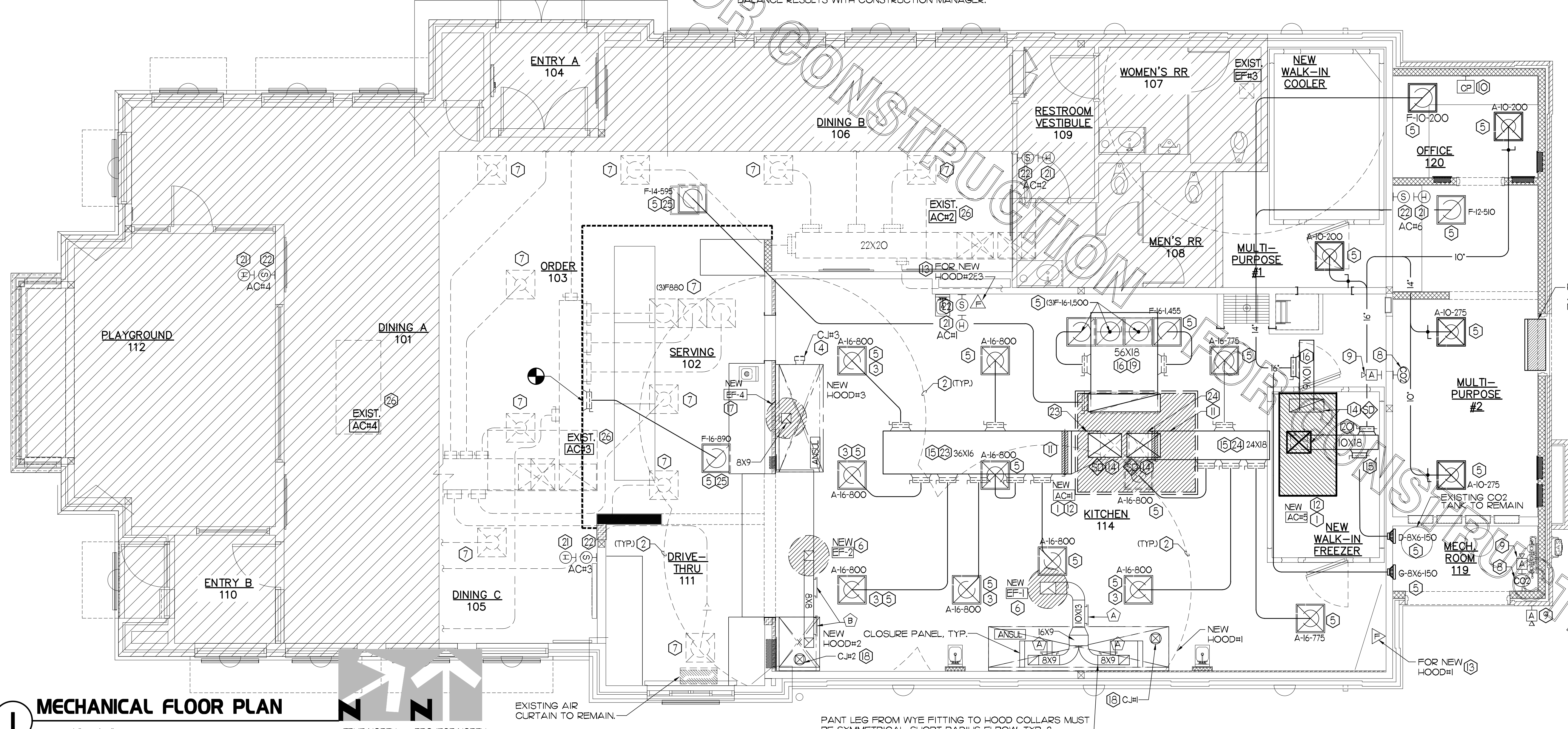
HVAC GENERAL NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. MECHANICAL CONTRACTOR SHALL BALANCE HVAC SYSTEM AS SHOWN ON THE PLAN & RTU SCHEDULE ON SHEET M-3.1. IF AIRFLOW'S DIFFER BY MORE THAN 5%, CONTACT CFA CONSTRUCTION MANAGER.
3. NO PIPING OR DUCTWORK ALLOWED ABOVE ANY ELECTRICAL/CONTROL PANELS.
4. 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.
5. 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.
6. REUSE AND REWORK EXISTING HVAC DUCTWORK. PROVIDE NEW SECTION FOR RECONNECTION AS REQUIRED. FIELD VERIFY ALL REQUIREMENTS PRIOR TO BID.
7. CONTRACTOR SHALL INSPECT, REPAIR, REPLACE OR BALANCE AS NECESSARY 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.

LEGEND	
A-12-400	TYPE - NECK SIZE - CFM
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP
	SPIN-IN HARD ϕ FLEXIBLE ϕ DIFFUSER
	EXISTING EQUIPMENT, DUCT, & AIR DEVICE
	NEW EQUIPMENT, DUCT, & AIR DEVICE
	REMOTE TEMPERATURE SENSOR
	HUMIDITY SENSOR
	STROBE AUDIO/VISUAL ALARM-ANNUNCIATOR
I2X18	DUCT SIZE (REVERSE FOR ELEVATION VIEWS) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION
	POINT OF CONNECTION
	EXHAUST FAN # (TYP)
	AIR CONDITIONING UNIT # (TYP)
	RETURN/EXHAUST (TYP)
	SUPPLY DIFFUSER, SQ FACE (TYP)
	PLAN NOTE REFERENCE
	MANUAL VOLUME DAMPER
	DIRECTION OF THROW ON DIFFUSER
	CO2 SENSOR
	PULL STATION
	CONTROL PANEL
	SMOKE DETECTOR

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).

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.

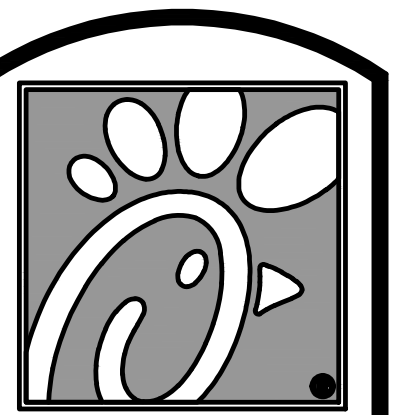


MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

TRUE NORTH PROJECT NORTH

EXISTING AIR CURTAIN TO REMAIN.

PANT LEG FROM WYE FITTING TO HOOD COLLARS MUST BE SYMMETRICAL. SHORT RADIUS ELBOW, TYP. 2.

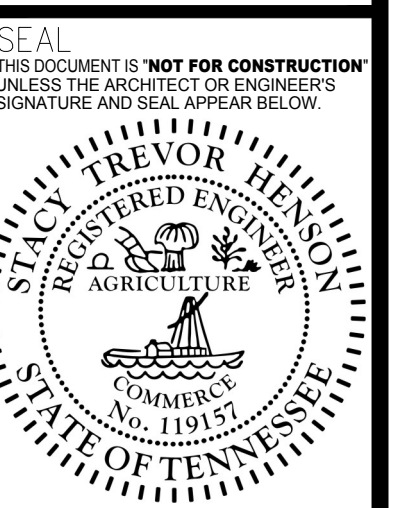


Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
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Revisions:

Mark	Date	By
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STACY HENSON, P.E.

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STORE
UNION AVENUE FSU
S08E-R

1980 UNION AVE.
MEMPHIS, TN. 38104

SHEET TITLE
FLOOR PLAN
CENTER LINE
KITCHEN

VERSION: S08E-R
ISSUE DATE: 06-2015

Job No. : 17.0134
Store : 2308
Date : 08.15.17
Drawn By : DG
Checked By : JL

Sheet
M-1.1

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KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE R-102 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER HIRED BY HALTON.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R-3W/2, NO EXCEPTIONS ALLOWED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH UNIFRAX FyreWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FyreWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT HOOD#2, HOOD#3 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.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP • TAB PORT	CAPTURE JET CFM & SP.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
NEW HOOD#1	1700	0.11"	113 • 0.30"	BACK SHELF	Ø 8"X9"	151"	37"	38"	HALTON	KVL-2	1
NEW HOOD#2	701	0.26"	30 • 0.29"	BACK SHELF	8"X8"	42"	34"	38"	HALTON	KVL-C	1
NEW HOOD#3	804	0.09"	68 • 0.28"	CANOPY	9"X8"	90"	40"	48"	HALTON	KVM	1
NOTES	DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).										
REMARKS	1. TYPICAL INSTALLATION FOR NEW HOODS. FIELD VERIFY & COORDINATE WITH HOOD DRAWINGS BY HALTON. REFER TO SHEET M-111 & M-112 PRIOR TO BID & CONSTRUCTION.										

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 M-111) FOR INFORMATION ON CAPTURE JET FAN.

CLEANOUT DOOR NOTE

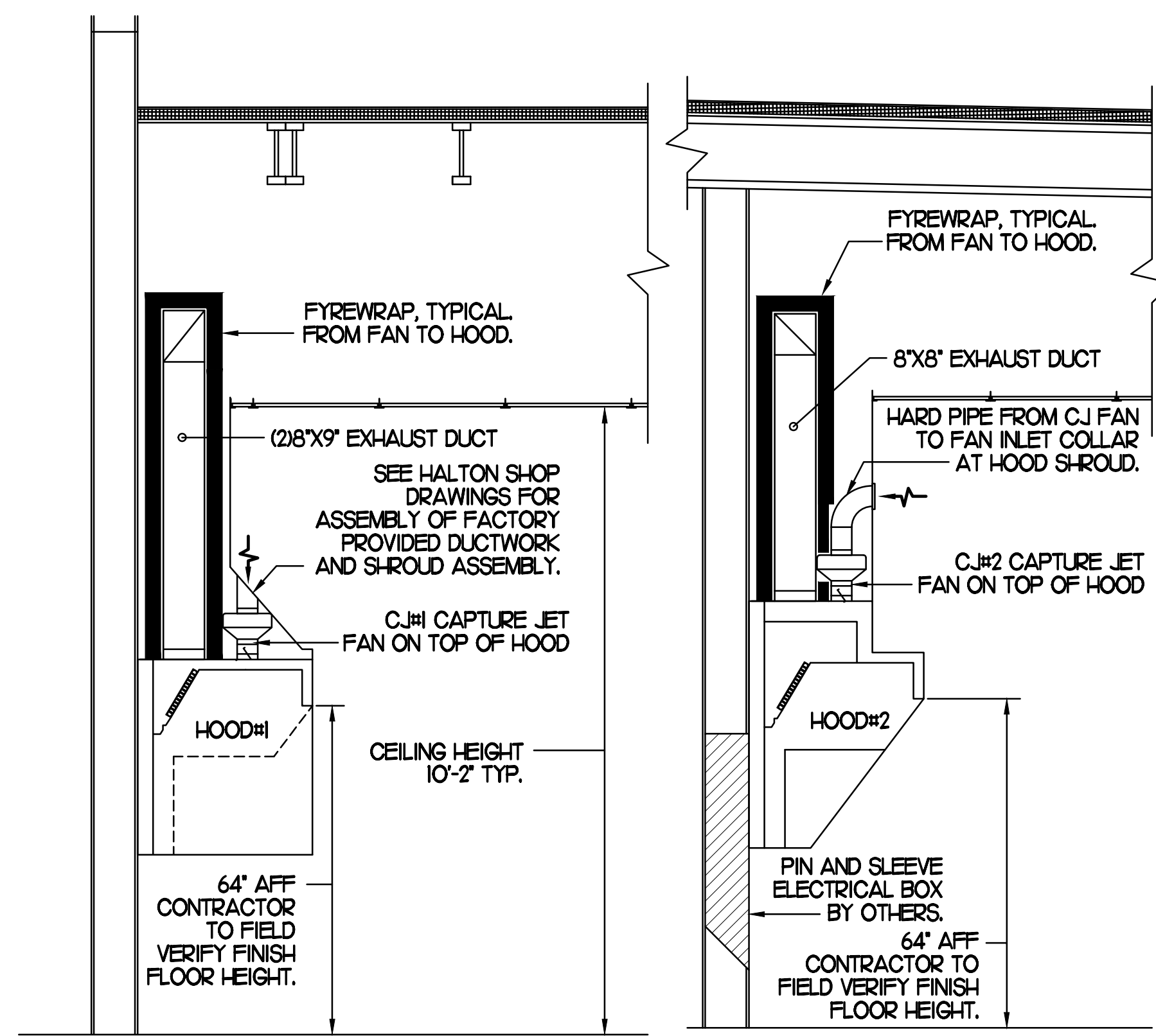
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

HOOD ELEVATION NOTE

HOOD ELEVATIONS ON THIS SHEET ONLY SERVE ILLUSTRATIVE PURPOSES. SEE DETAILS ON HALTON SHOP DRAWINGS ON SHEET M-111 FOR DETAILS ON STANDOFFS, CLEARANCES, AND HOOD CONSTRUCTION.

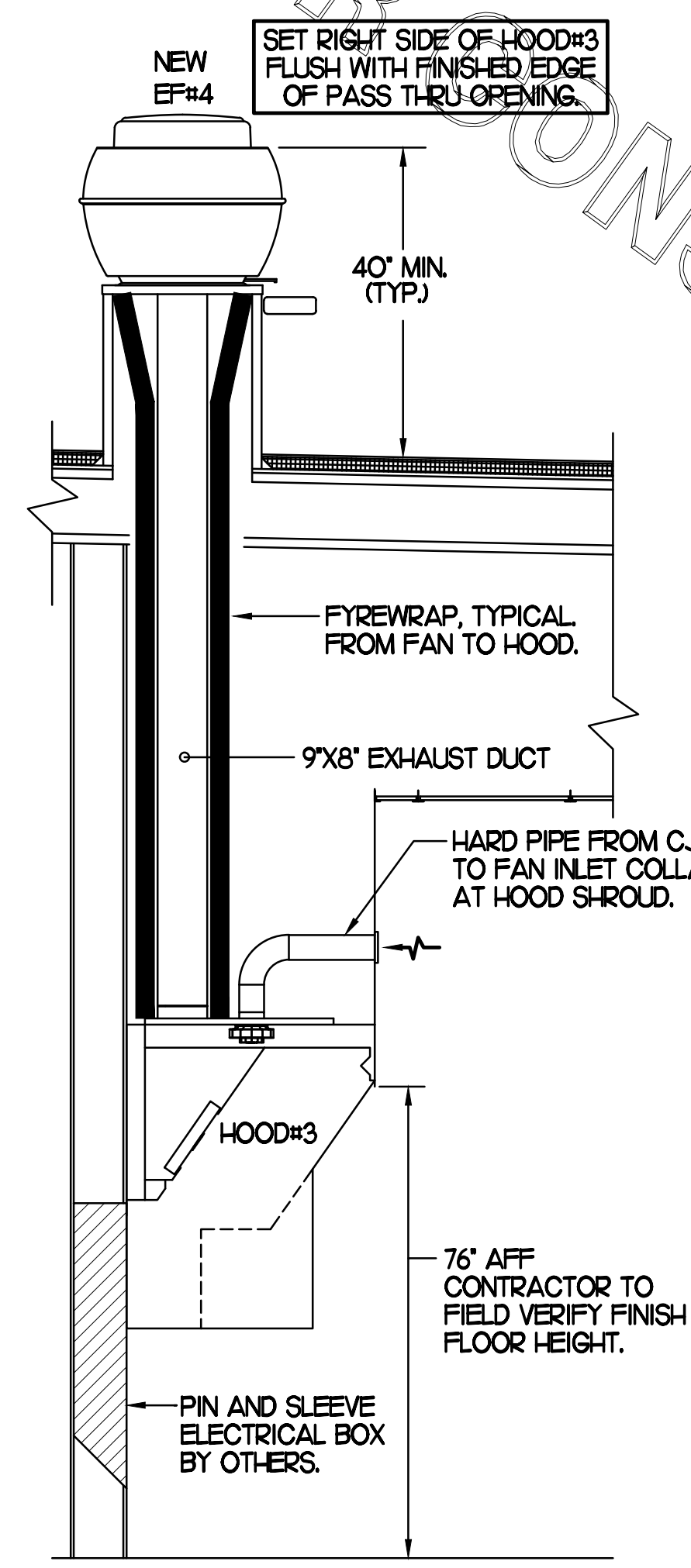
NOTE:

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.

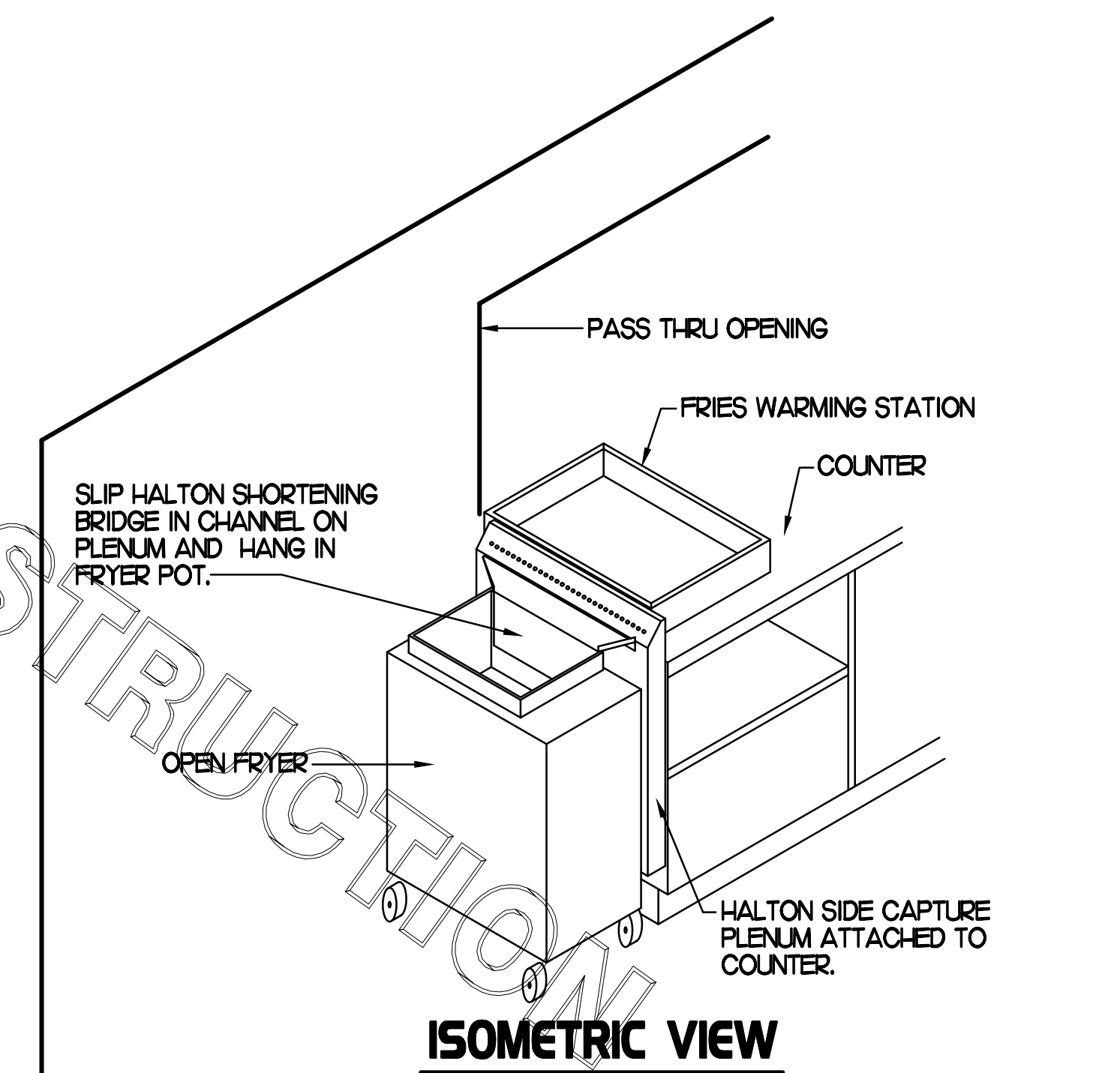


SECTION "A-A"

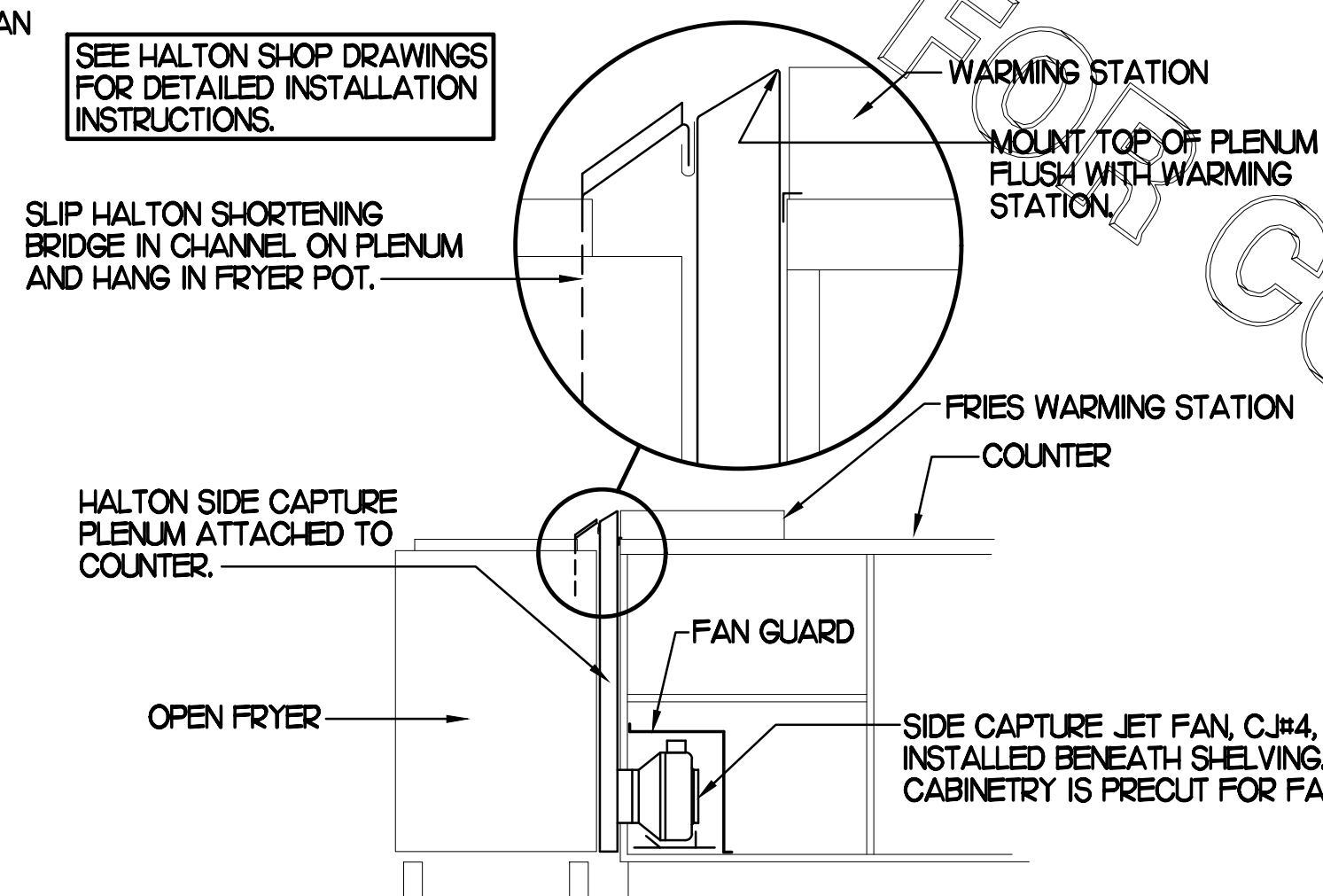
SECTION "B-B"



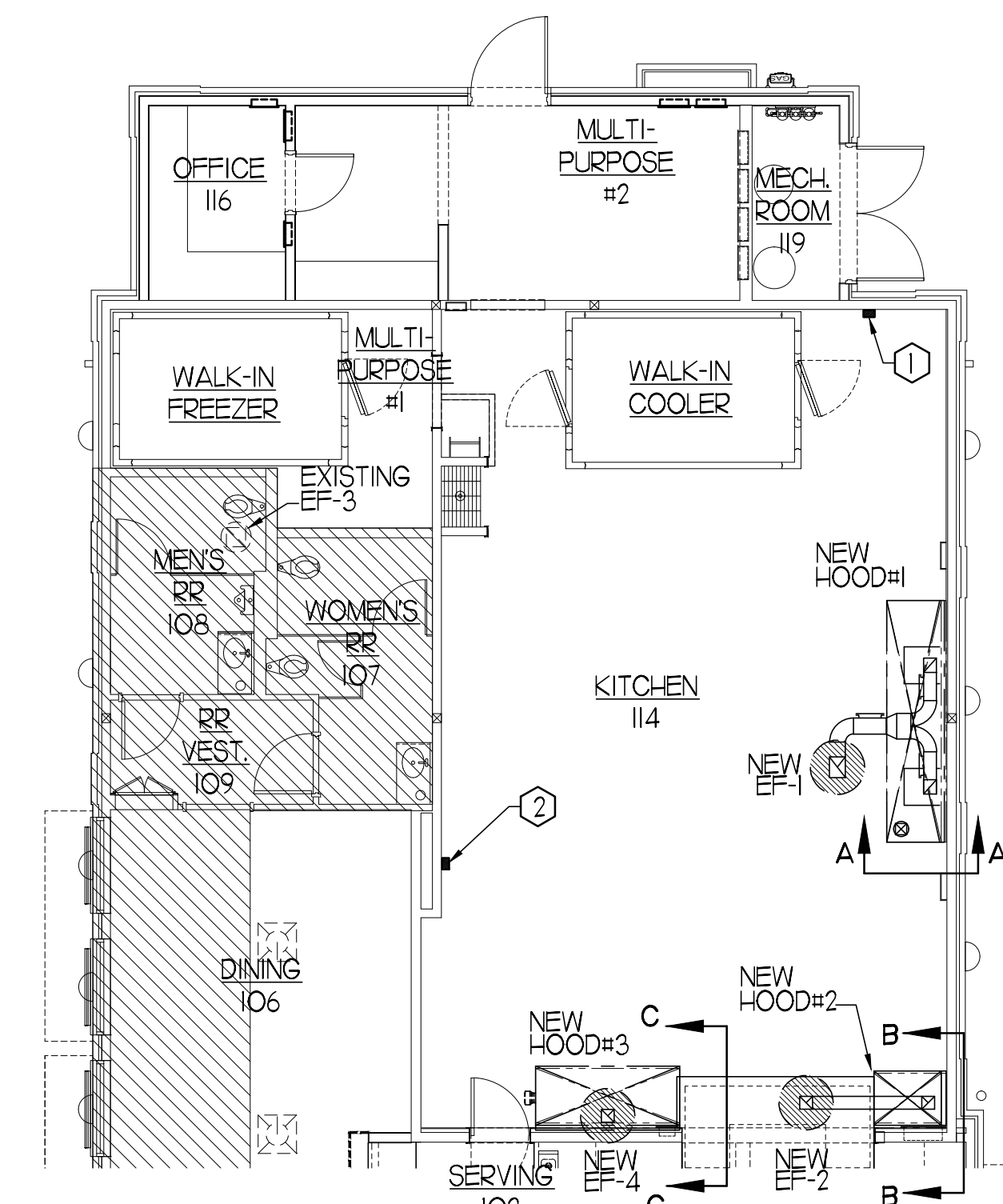
SECTION "C-C"



ISOMETRIC VIEW



FRONT VIEW



HOOD LAYOUT NOTES

1. ANSUL PULL STATION SERVING NEW HOOD #1. 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.
2. ANSUL PULL STATION SERVING NEW HOOD #2 & 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.

HOOD LAYOUT

1/8"=1'-0"

HALTON SIDE CAPTURE JET PLENUM

NOT TO SCALE

HOOD ELEVATIONS

NONE



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark Date By

Mark	Date	By
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STORE
UNION AVENUE FSU
S08E-R

1980 UNION AVE.
MEMPHIS, TN. 38104

SHEET TITLE
MECHANICAL
DETAILS
& SCHEDULES

VERSION: S08E-R
ISSUE DATE: 06-2015

Job No. : 17.0134

Store : 2308

Date : 08.15.17

Drawn By : DG

Checked By: JL

Sheet

M-2.1

FLEX DUCT SIZE

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

BASED ON WIRE HELIX FLEXIBLE DUCT TYPE FLEX-MASTER
 UL LISTING
 L181 / ETL CLASS I AIR DUCT STANDARD CODE
 NFPA 90A AND 90B, BOCA, SEBC, H.D./F.H.A. 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. EQUAL IS APPROVED.

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

I. ACCESS DOORS SHALL BE UL 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.

SEE FIREWRAP INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION ON CONFIGURING INSULATION OVER AN ACCESS DOOR.

ROOFTOP UNIT SCHEDULE

MARK	TONNAGE	AREA SERVED	COOLING CAPACITY (MBH)		HEATING CAPACITY (MBH)		FAN SECTION (CFM)			EXISTING MANUFACTURER/ MODEL	NEW MANUFACTURER/ MODEL	ARI RATINGS	PERCENTAGE OF OUTDOOR AIR	ELECTRICAL DATA			REMARKS	APPROX. NET WEIGHT INCLUDING OPTIONS		
			TOTAL	SENS	INPUT	OUTPUT	STAGES	SUPPLY	O.A.					I.P.	ESP	VOLT/PHASE			MCA	MOCP
NEW AC#1	25.0	KITCHEN	2945	226.8	480.0	384.0	2	8,750	2200	10	10	LENNOX/LGH450S4#5Y	LENNOX/LGH450S4#5Y	10.5 EER/10.9 EER	22.0%	208/3/60	128	150	13,457.8/9,011/23.4	2,917 LBS
EXISTING AC#2	8.5	DINING C	-	-	-	-	-	2,830	665	-	-	LENNOX/LGH402#4B#3Y	-	-	18.0%	-	-	-	15	-
EXISTING AC#3	12.5	DINING A	-	-	-	-	-	5,000	900	-	-	LENNOX/LGH402#4B#3Y	-	-	18.0%	-	-	-	15	-
EXISTING AC#4	5.0	PLAYGROUND	-	-	-	-	-	1,800	360	-	-	LENNOX/LGH402#4B#3Y	-	-	18.0%	-	-	-	15	-
NEW AC#5	3.0	OFFICE	35.8	27.6	65.0	52.0	1	1,000	240	5	65	-	LENNOX/LGH402#4B#3Y	12.7 EER/18.0 SEER	20.0%	208/3/60	23	30	23,467.8/9,011/23.4	796 LBS

NOTES:
 • COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80°FDB/67°FWB, OUTDOOR: 95°FDB, 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:
 ALL NEW ROOFTOP UNITS SHALL INCLUDE A HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR.

1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
 2. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
 3. PROVIDE NEW 14" HIGH ROOF CURB.
 4. SEE DETAIL M4.2 FOR SETTING OF PRODIGY M3 AND MI-8 IMC BOARD CONTROL/ECTO 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 UNIT WITH MSAV BLOWER.
 14. PROVIDE HUMIDITROL OPTION WITH FACTORY WALL MOUNTED HUMIDITY SENSOR (STATES OF CA AND AZ EXCLUDED).
 15. EXISTING UNIT TO REMAIN.

NEW HVAC ROOFTOP UNITS. CONTRACTOR SHALL VERIFY EXACT ELECTRICAL CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT, ETC. FOR THE NEW ROOFTOP UNITS PRIOR TO ORDERING AND BID.
 TEST AND BALANCE REPORT SHALL BE DONE PRIOR TO STORE TURNOVER AND SUBMITTED TO CFA'S CONSTRUCTION MANAGER.
 NEW ROOF TOP UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDING CLEARANCES, & SHALL MEET ALL LOCAL AND STATE CODE REQUIREMENTS. INSTRUCTIONS SHALL BE ON SITE AND AVAILABLE FOR ALL INSPECTIONS, SERVICE, REPAIR, OR REPLACEMENT.
 EMERGENCY HVAC CUT OFF SWITCH LOCATED NEAR ELECTRICAL PANELS IS TO BE RE-USED AND RECONNECTED.

KITCHEN PRESSURIZATION

RETURN AIR FROM SIDE DINING BACK TO KITCHEN	+595
NEW AC-1 OA (25.0 TON)-22.8 OA	+2,200
NEW EF-1 KITCHEN HOOD	-1,700
NEW EF-2 KITCHEN HOOD	-701
NEW EF-4 KITCHEN HOOD	-804
TOTAL	-410

DINING PRESSURIZATION

EXISTING AC-2 OA (8.5 TON)-19.8 OA	+615
EXISTING AC-3 OA (12.5 TON)-18.1 OA	+900
EXISTING AC-4 OA (5.0 TON)-17.5 OA	+360
EXISTING AC-5 OA (3.0 TON)-20.0 OA	+240
EXISTING EF-3 RESTROOM EXHAUST	-400
RETURN AIR FROM SIDE DINING BACK TO KITCHEN	-595
TOTAL	+1,120
BUILDING POSITIVE PRESSURE	+710

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 AREA KITCHEN	SEE PLAN	24X24	LAY-IN	1/8
D	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO SHORT SIDE.	WH. CLOSET	8X6	10X8	SURFACE	1
E	PRICE MODEL 22 DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE FRONT BLADE PARALLEL TO LONG SIDE.	PLAYAREA	16X10	18X12	SURFACE	1
F	PRICE MODEL 80 EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/OFFICE KITCHEN	SEE PLAN	24X24	LAY-IN	1/8
G	PRICE MODEL 21 ALUMINUM SIDEWALL RETURN GRILLE, FRONT BLADE PARALLEL TO LONG SIDE.	WH. CLOSET	8X6	10X8	SURFACE	1
H	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	OFFICE	12	24X24	LAY-IN	1/8
J	PRICE MODEL SMOCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10X10	16X6	BEVELLED	123,57
K	PRICE MODEL APDCR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS ENTRIES	14X4	17X7	SURFACE	14,57

NOTES:
 • MECHANICAL CONTRACTOR SHALL 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.

REMARKS:
 1. STANDARD OFF WHITE FINISH.
 2. PROVIDE MODEL VCS3 NECK DAMPER.
 3. SEE DRAWING M11 FOR THROW.
 4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS.
 5. PROVIDE BACKPAN, MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
 6. PROVIDE VCR7 NECK DAMPER, ADJUSTABLE THRU DIFFUSER FACE.
 7. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL I/M3-1.
 8. FACTORY INSULATED R-6 BACKPAN.

OUTDOOR AIR CALCULATION

ROOM NUMBER & NAME	AREA SQ. FT.	NO. OF PEOPLE	REQD OA CFM/PERSON	REQD OA CFM/SQ FT	TOTAL OSA	REQD EXHAUST AIR PER FIXTURE	REQD OSA AC-1	REQD OSA AC-2	REQD OSA AC-3	REQD OSA AC-4	REQD OSA AC-5
RR VESTIBULE	54	0	5.00	0.06	3.2			5			
MENS RR	86	0	0.00	0.00	0.0	50/70		0			
WOMENS RR	100	0	0.00	0.00	0.0	50/70		0			
DINING B	401	28	7.50	0.18	282.2			282			
KITCHEN	1028	8	7.50	0.18	245.0		455				
DRIVE THRU	123	8	7.50	0.18	82.1				85		
SERVING AREA	210	2	7.50	0.18	52.8				55		
ORDER AREA	270	0	5.00	0.06	16.2				20		
DINING C	185	30	7.50	0.18	258.3				260		
ENTRY 'A'	49	0	5.00	0.06	2.9				5		
ENTRY 'B'	51	0	5.00	0.06	3.1				5		
PLAY AREA	271	12	7.50	0.18	138.8					140	
OFFICE	71	1	5.00	0.06	9.3						10
MULTI-PURPOSE #1E2	293	0	5.00	0.06	17.6						15
TOTALS			REQUIRED OUTSIDE AIR		100/140		455	287	430	140	25
			PROVIDE OUTSIDE AIR				2,200	615	900	360	240

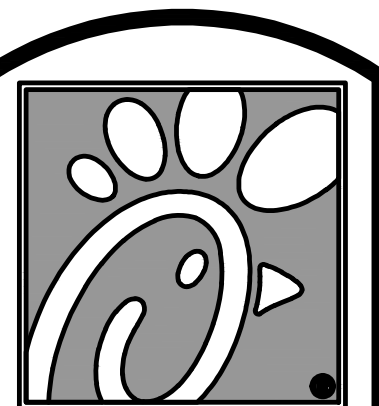
OUTSIDE AIR BASED ON THE 2017 FLORIDA MECHANICAL CODE & PER ASHRAE 62I-2007 MINIMUM VENTILATION RATES.

EXHAUST FAN SCHEDULE

MARK	CFM	ESP	RPM	TIP SPEED (FPM)	IP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
NEW EF-1	1,700	.65	964	4,164	1/2	NEW HOOD#1	165V5B	LOREN COOK	123,456
NEW EF-2	701	.75	1,238	4,861	1/3	NEW HOOD#2	150V4B	LOREN COOK	123,456
EXISTING EF-3	400	-	-	-	-	RESTROOMS	-	-	7
NEW EF-4	804	.75	1,220	4,790	1/3	NEW HOOD#3	150V4B	LOREN COOK	123,456

NOTES:
 • GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
 • GREASE EXHAUST FANS TO BE UL 762 LISTED.
 • CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE FAN/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.

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.
 4. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-919-7034.
 5. PROVIDE FACTORY INSTALLED HELICAL SPRING AUTOMATIC BELT TENSIONER.
 6. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
 7. EXISTING EXHAUST FAN TO REMAIN.



5200 Buffington Rd.
 Atlanta Georgia,
 30349-2998

Revisions:

Mark Date By

1 11/14/17 LE

2 BID COMMENTS

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STORE
 UNION AVENUE FSU
 S08E-R

1980 UNION AVE.
 MEMPHIS, TN. 38104

SHEET TITLE
 MECHANICAL
 SCHEDULES

VERSION: S08E-R
 ISSUE DATE: 06-2015

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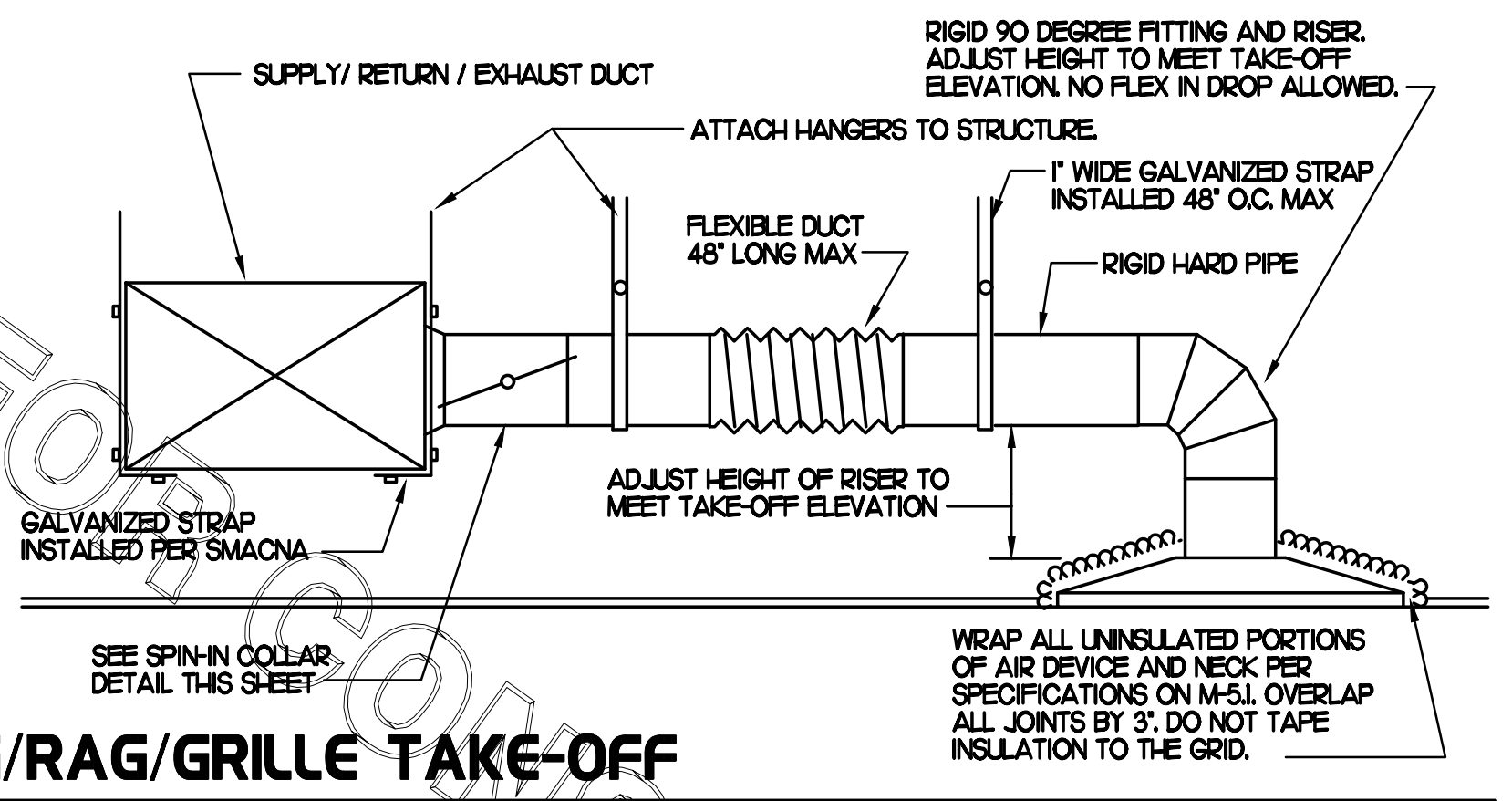
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Drawn By : DG

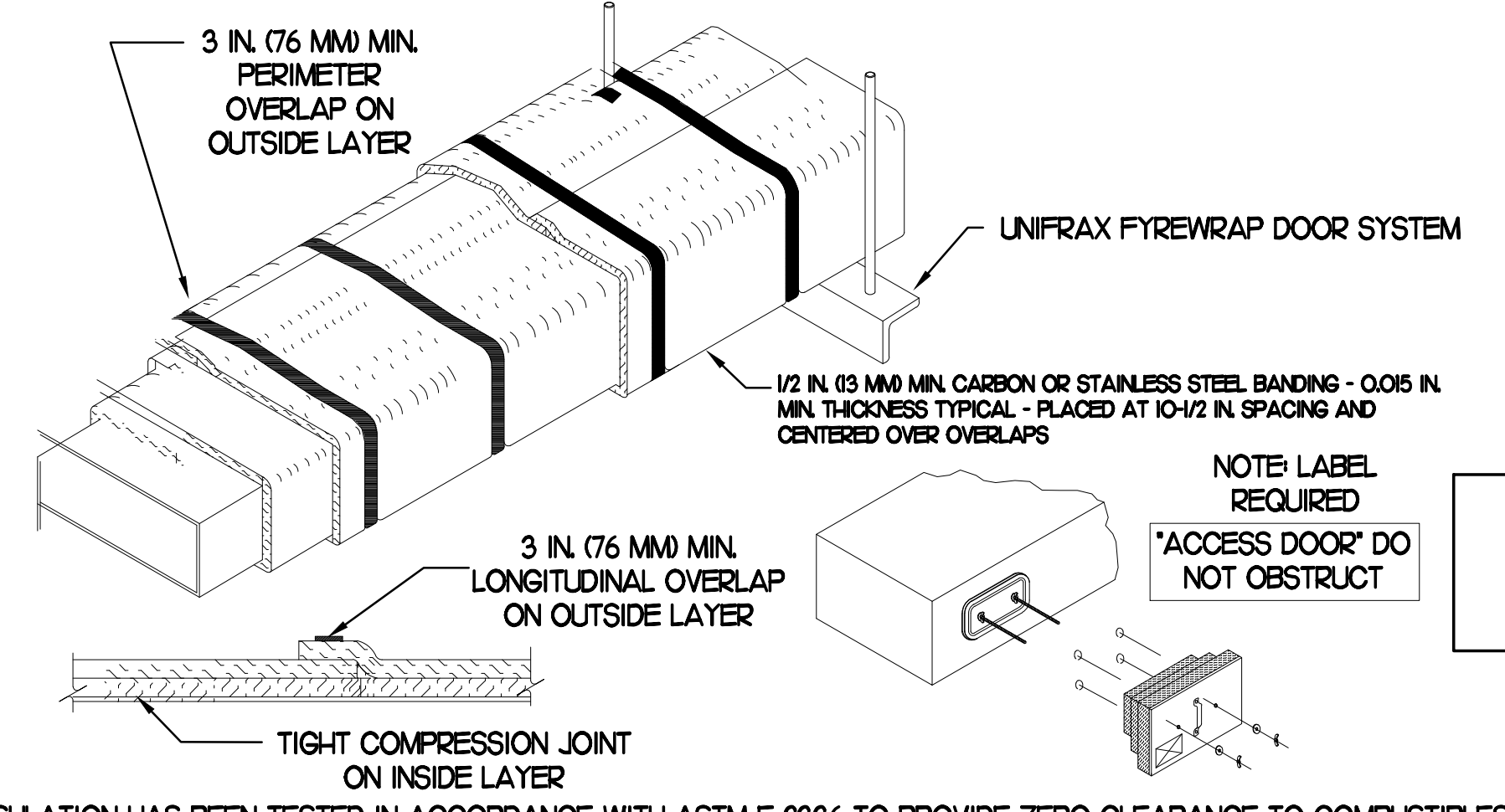
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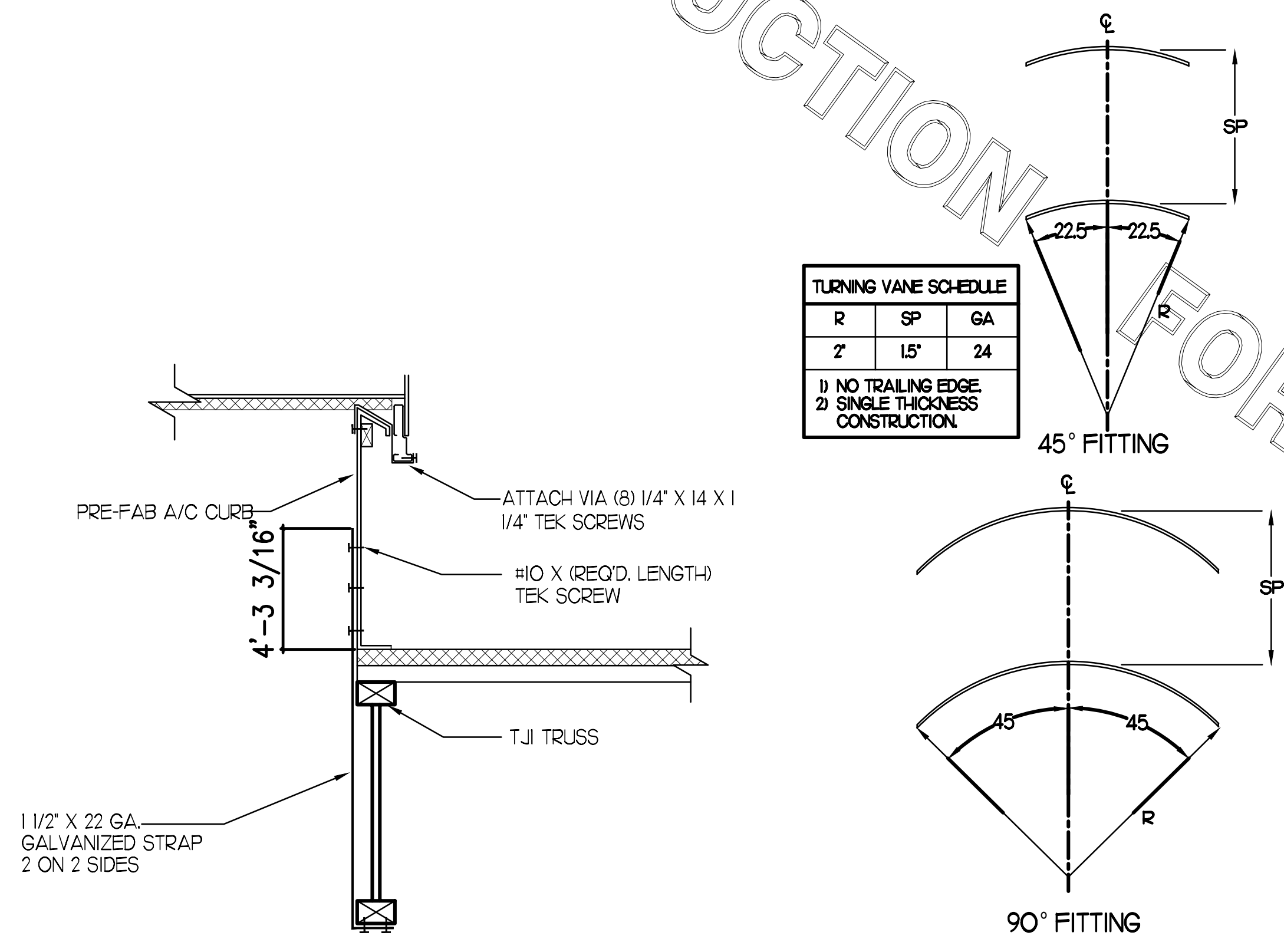


1 SAG/RAG/GRILLE TAKE-OFF
NO SCALE

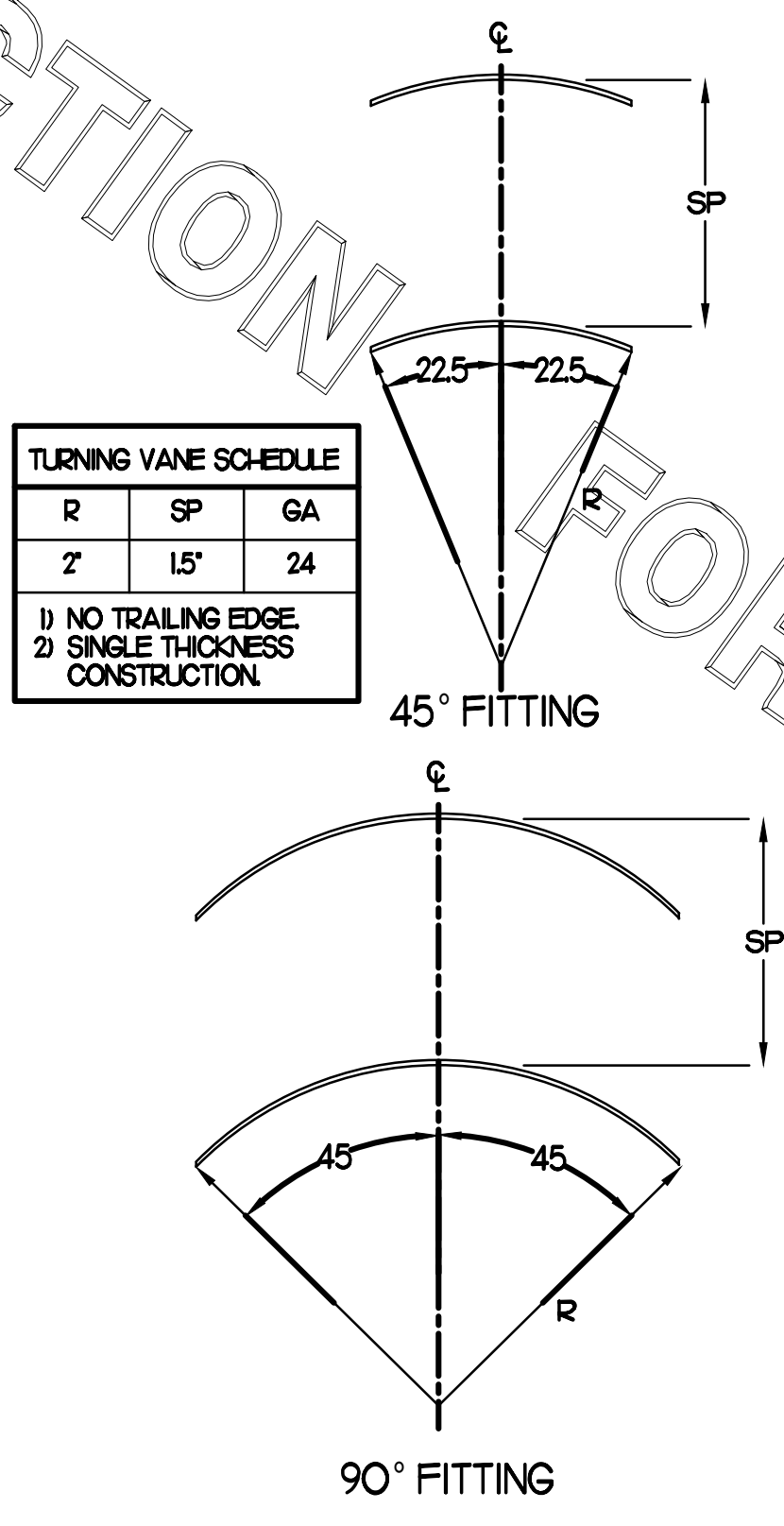


- UNIFRAX FyreWRAP ELITE 15 DUCT INSULATION HAS BEEN TESTED IN ACCORDANCE WITH ASTM E 2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
- COMPLIANT TO THE FOLLOWING CODES:

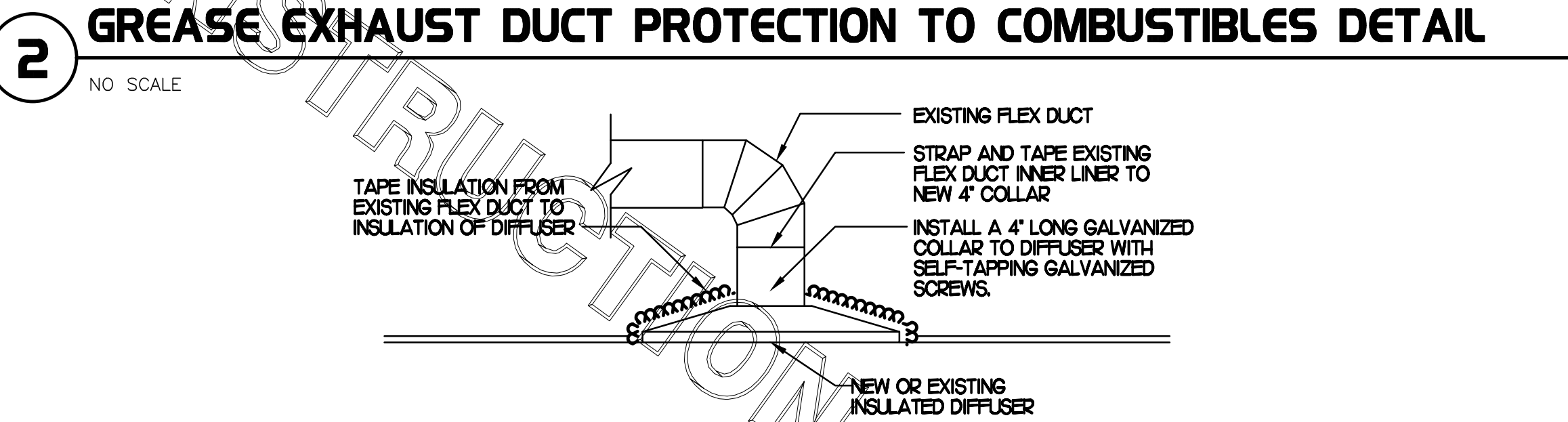
BUILDING CODE: 2014 FLORIDA BUILDING CODE, 5TH EDITION	ELECTRICAL CODE: 2011 NATIONAL ELECTRICAL CODE
PLUMBING CODE: 2014 FLORIDA PLUMBING CODE, 5TH EDITION	ENERGY CODE: 2014 FLORIDA BUILDING CODE, 5TH EDITION ENERGY CONSERVATION
MECHANICAL CODE: 2014 FLORIDA MECHANICAL CODE, 5TH EDITION	FIRE CODE: 2012 FLORIDA FIRE PREVENTION CODE, 5TH EDITION
FUEL GAS CODE: 2014 FLORIDA FUEL GAS CODE, 5TH EDITION	ACCESSIBILITY CODE: 2014 FLORIDA BUILDING CODE, 5TH EDITION ACCESSIBILITY
- INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
- GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
- UNIFRAX FyreWRAP ELITE 15 ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.
- ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.
- SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
- UNIFRAX FyreWRAP ELITE 15 DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- UNIFRAX FyreWRAP ELITE 15 DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.



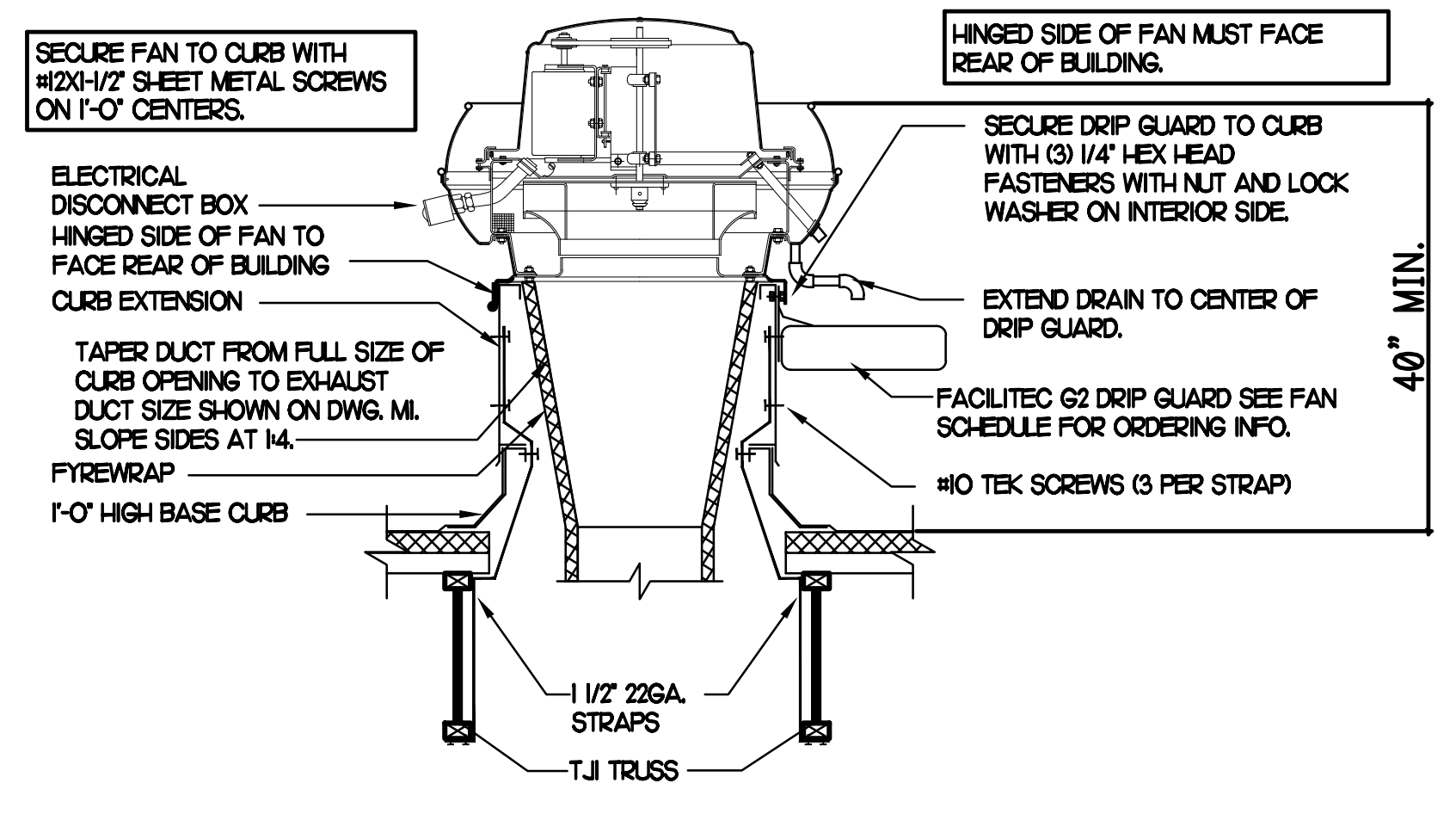
3 ROOFTOP A/C UNIT TIE-DOWN DETAIL
NO SCALE



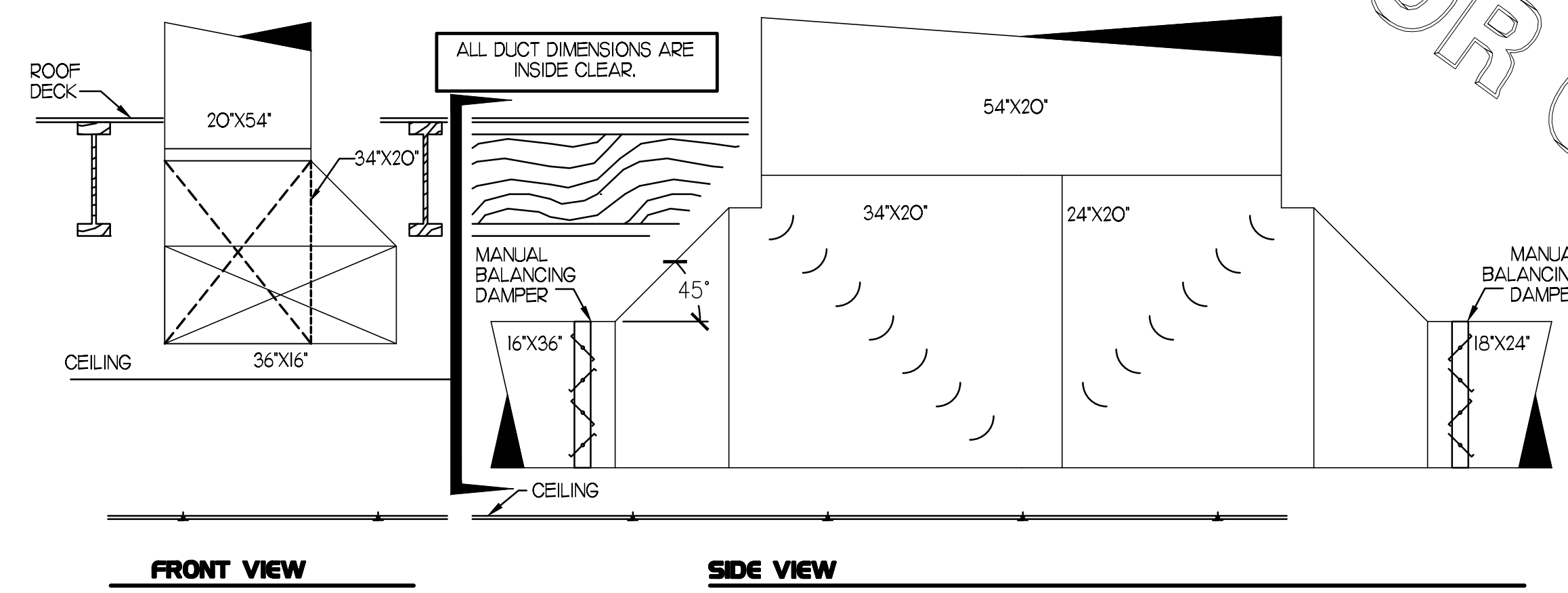
4 TURNING VANES
NO SCALE



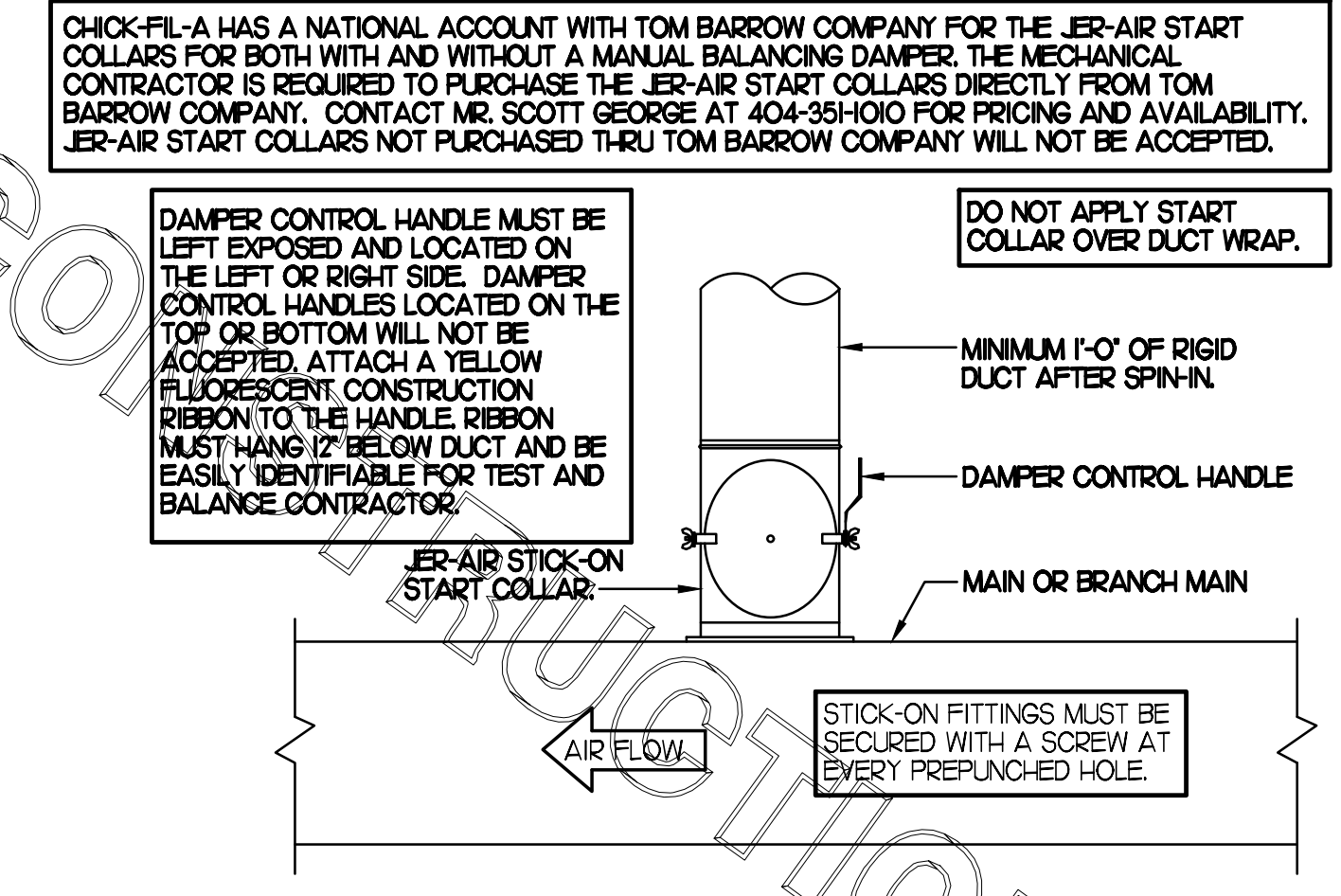
5 NEW OR EXISTING DIFFUSERS GRILLE WHEN CEILING REPLACED
NO SCALE



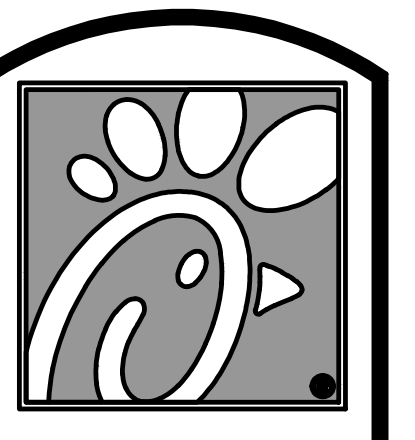
6 TYPICAL FAN TIE-DOWN SYSTEM DETAIL
NO SCALE



7 TEE CONSTRUCTION
NO SCALE



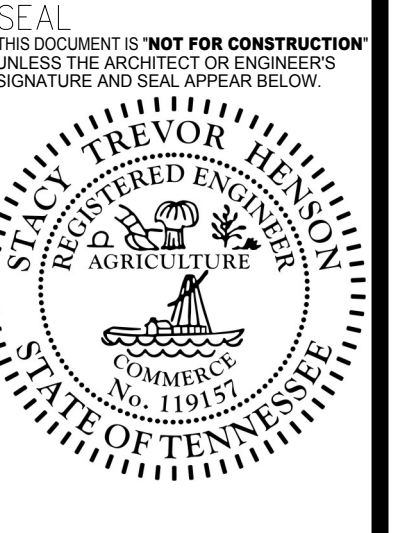
8 START COLLAR
NO SCALE



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△		
△		
△		
△		



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CLEARANCE NOTE:

CONTRACTOR TO VERIFY THICKNESS OF ROOF ASSEMBLY. 18" CLEARANCE REQUIRED FROM BOTTOM OF SUPPORT RACK STRUCTURAL MEMBER TO TOP OF ROOF ASSEMBLY. IF ANY PIECE OF EQUIPMENT MOUNTED ON RACK EXCEEDS 36" IN THE LATERALLY MOUNTED DIMENSION, THE CLEARANCE NEEDS TO BE INCREASED TO 24". INSTALLATION TO BE IN COMPLIANCE WITH FBC 1511.7

PROVIDE 4-22 GA. - 1 1/8" WIDE HURRICANE STRAPS PER REF. UNIT.

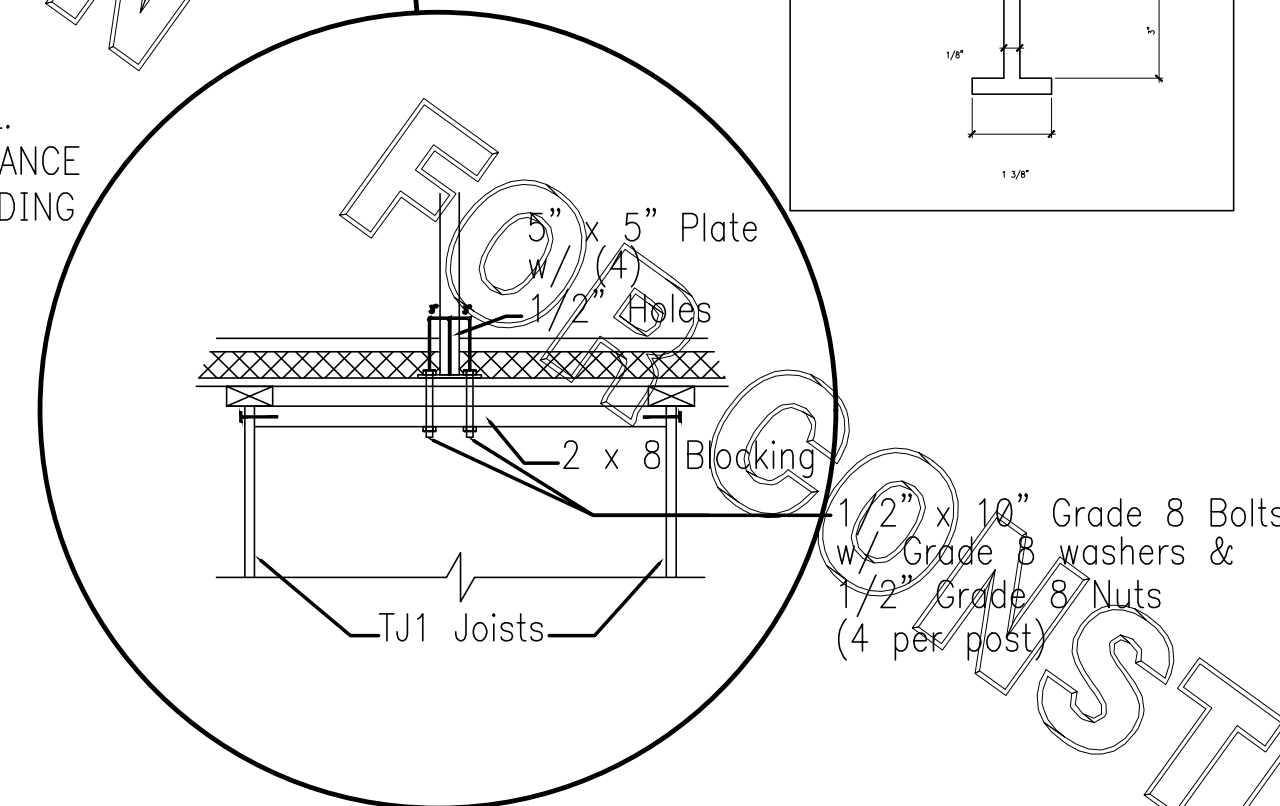
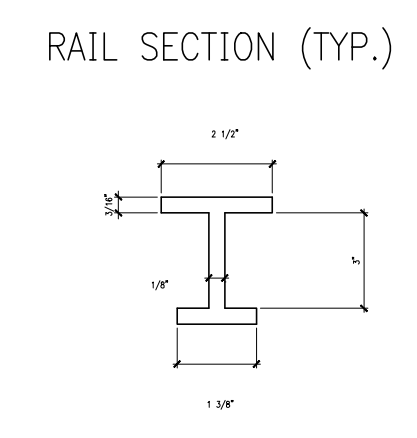
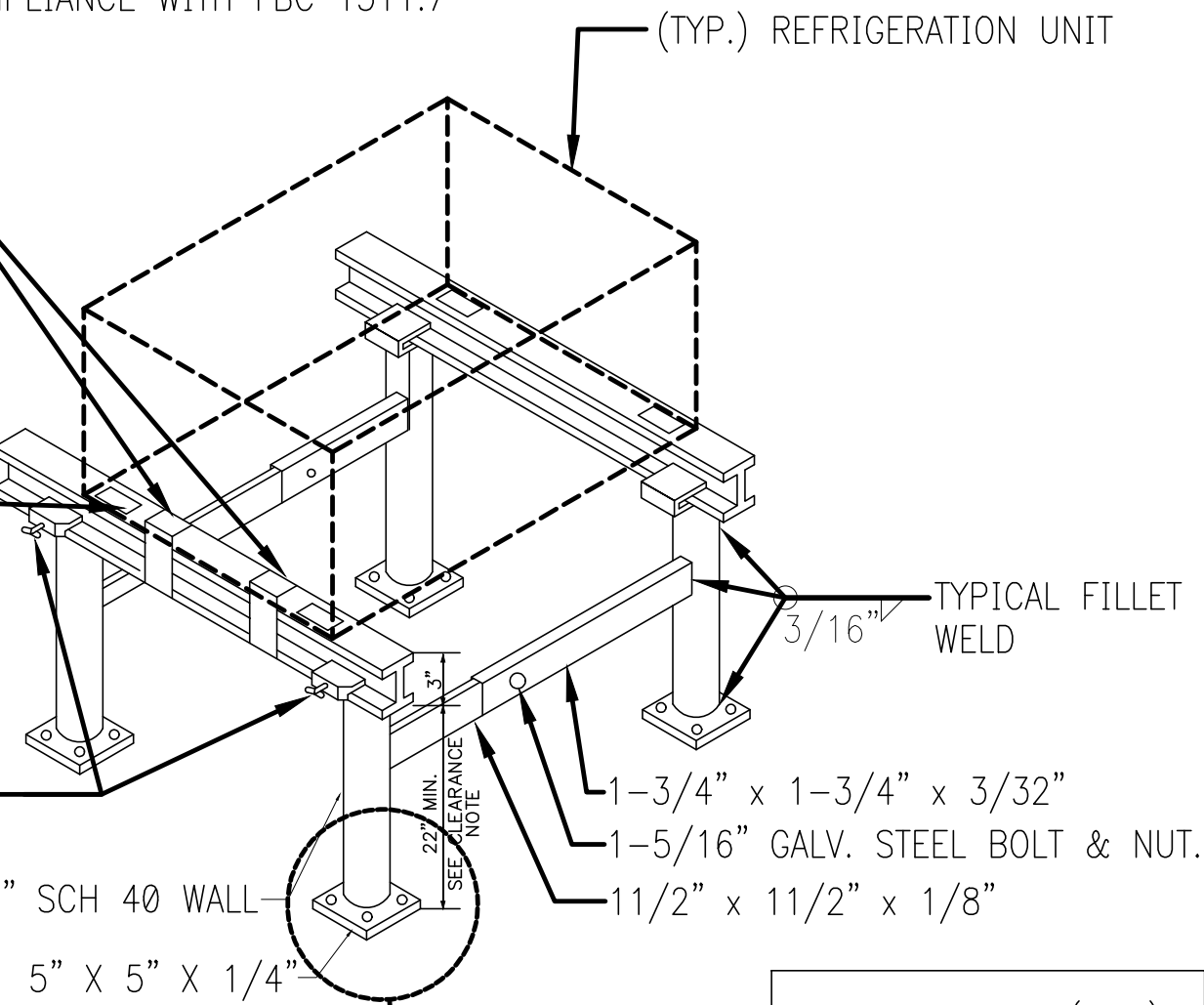
- A.) 2-3/8" X 3/4" LONG A307 STEEL GALV. BOLTS AND NUTS FASTENED TO WEB OF ALUMINUM STAND RAIL.
- B.) 3-10-16 X 3/4" HWH #3 SELF DRILLING HILTI KWIK-FLEX SCREWS TO WEB OF ALUMINUM STAND RAIL.

PAD (TYP.) BY A/C CONTRACTOR
 EXAMPLES:
 RUBBER VIBRATION PAD (RP. 3/4" X 2" X 2")
 (RP. 3/8" X 2" X 2")

1/4" X 3/4" GALVANIZED STEEL THUMBSCREW TIGHTEN WITH TORQUE WRENCH TO REFUSAL.

NOTES:

- 1.) ALL CONSTRUCTION TO MEET ALUMINUM ASSOCIATION SPECS.
- 2.) VIBRATION INSULATOR PADS SHALL BE PROVIDED BY THE A/C CONTRACTOR SO AS NOT TO CAUSE VIBRATION TO EXISTING SUB-STRUCTURE.
- 3.) ALUMINUM EQUIPMENT STAND SUPPORTS AS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLA. OR APPROVED EQUAL. STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE AND SHALL BE SIZED AND INSTALLED ACCORDING TO THE MANUFACTURERS LOAD CHARTS AND PRINTED INSTALLATION DETAILS. CONTACT: (800) 266-7212
- 4.) STRAP DOWN UNITS WITH 22 GAUGE STRAPS AT 4 CORNERS WITH TEK SCREWS



1 REFRIGERATION SYSTEM FRAMING SUPPORT DETAIL

NO SCALE

LEGEND

SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
 KEY NOTE REFERENCE

MC MECHANICAL CONTRACTOR

SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN 'STORE OCCUPIED' POSITION.

SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL, DE-ENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.

18 AWG MIN LOW VOLTAGE WIRING BY MC, UNO. USE BELDEN OR SOUTH-WIRE SINGLE PAIR TWISTED WITH FOIL SHIELD AND DRAIN WIRE FOR SENSORS.

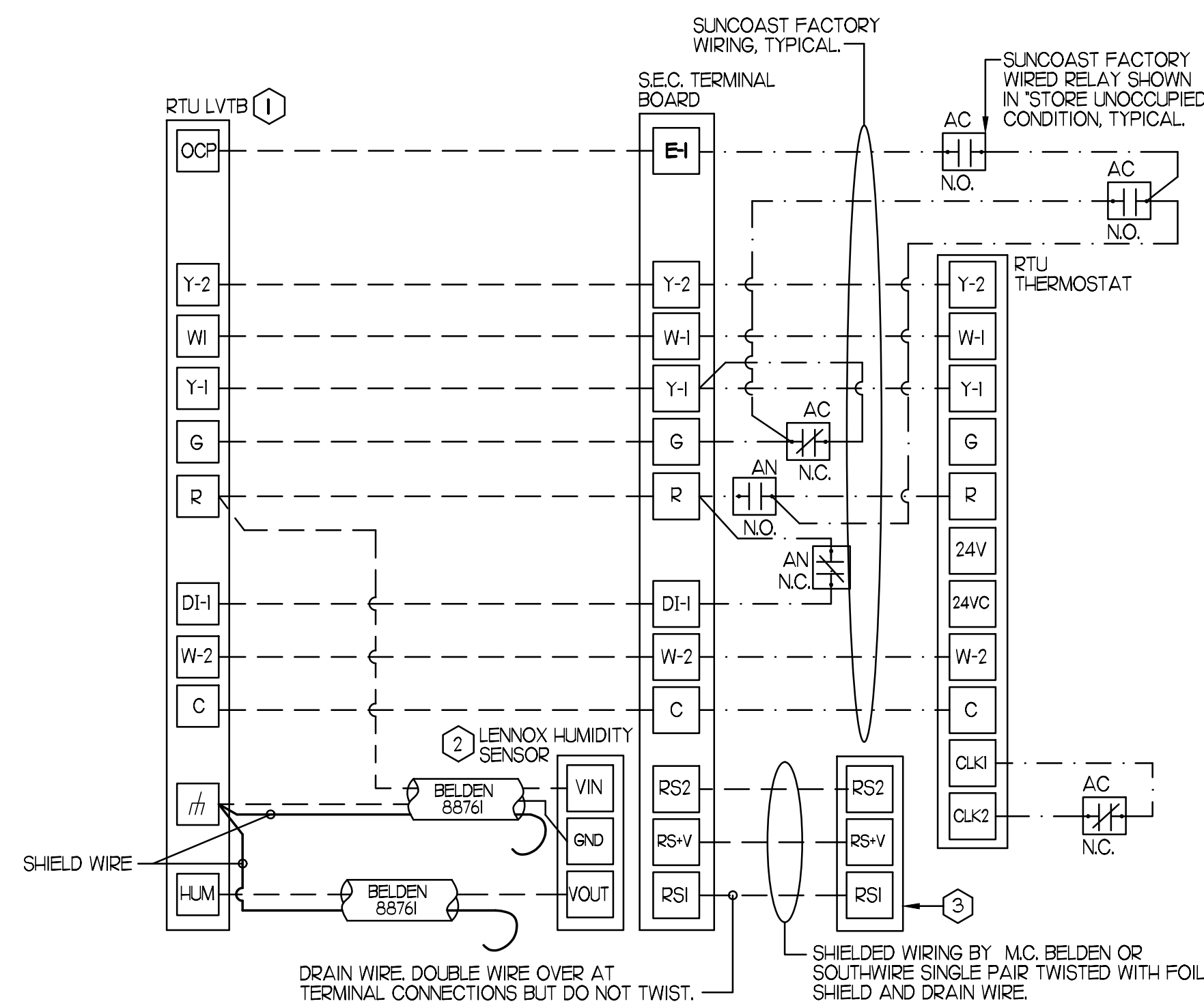
LOW VOLTAGE WIRING BY SEC.

LINE VOLTAGE BY ELECTRICIAN OR SEC.

PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #8624, TELEPHONE NUMBER 800-243-6624. FOR MOUNTING THE DETAIL, ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN FLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

NOTES:

1. FOR ALL RTUS EXCEPT AT ACH, CHANGE PRODIGY-M3 BOARD CONTROL PARAMETER #65 TO ZERO (#68 ON LGH UNITS). ON OLDER BOARDS THIS IS ECTO PARAMETER 3.01 FOR LGH UNITS OR ECTO 2.01 FOR LCH UNITS. THIS WILL CAUSE THE O.A. DAMPER TO OPEN ON 'OCCUPIED' START. AT ACH (LGH TYPE) LEAVE THE SETTING AT THE DEFAULT VALUE SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 60 MINUTES AFTER 'OCCUPIED' START. AT ACH (LGH TYPE) CHANGE THE VALUE TO 5400 SO THE O.A. DAMPER WILL REMAIN CLOSED FOR THE FIRST 90 MINUTES AFTER 'OCCUPIED' START.
2. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
3. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
4. AT HUMIDITROL RTUS SET PRODIGY-M3 BOARD CONTROL PARAMETER #105 FOR DEHUMIDIFICATION OPERATION TO A VALUE OF 5. OLDER MI-8 IMC BOARD ECTO PARAMETER 4.24 VALUE TO BE SET TO A VALUE OF 5.
5. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
6. SET TSTAT COM SWITCH ON PRODIGY BOARD TO OPEN POSITION.
7. FOR MSAY UNITS, SET THE MSAY LOW SPEED SETTING TO THE SAME VALUE AS THE HIGH SPEED SETTING AFTER TAB IS COMPLETE.
8. PROVIDE MYLAR LABEL AT ALL NEW SENSORS WITH 1/2" HIGH BLACK LETTERING ON WHITE BACKGROUND, I.E. 'ACH2 HUMIDITY SENSOR' OR 'ACH2 TEMP SENSOR'. PLACE LABELS DIRECTLY ON SENSOR DEVICE.



2 ROOFTOP UNIT CONTROL WIRING - LENNOX

NO SCALE

SUPPLY SIDE DETECTORS:
 IF SUPPLY SIDE SMOKE DETECTORS ARE SHOWN ON DWG M.I. AND CALLED FOR ON RTU SCHEDULE, THE CONTRACTOR IS TO RELOCATE FACTORY INSTALLED SUPPLY SMOKE DETECTOR FROM BLOWER SECTION TO DUCTWORK. SEE NOTES ON DWG M.I.

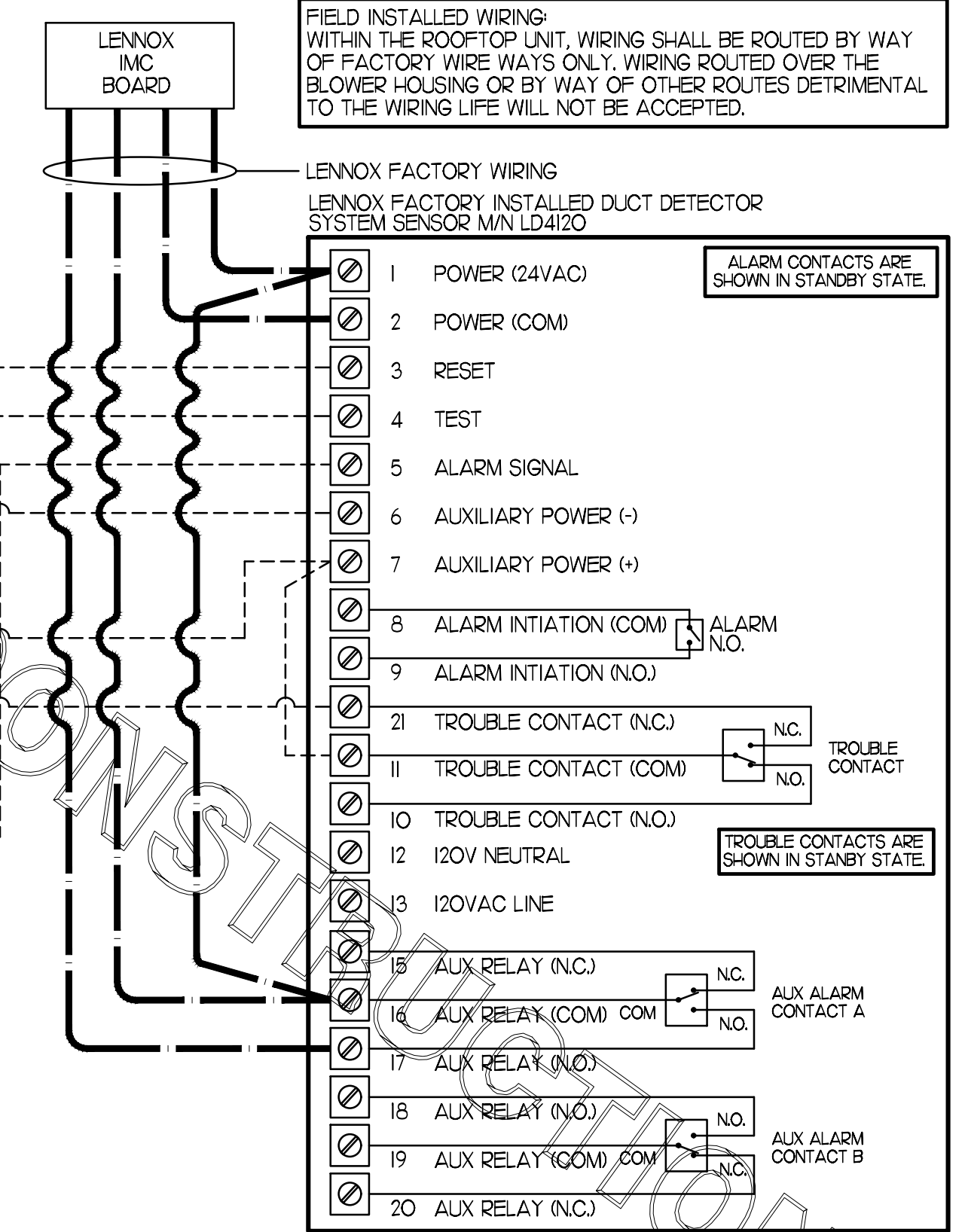
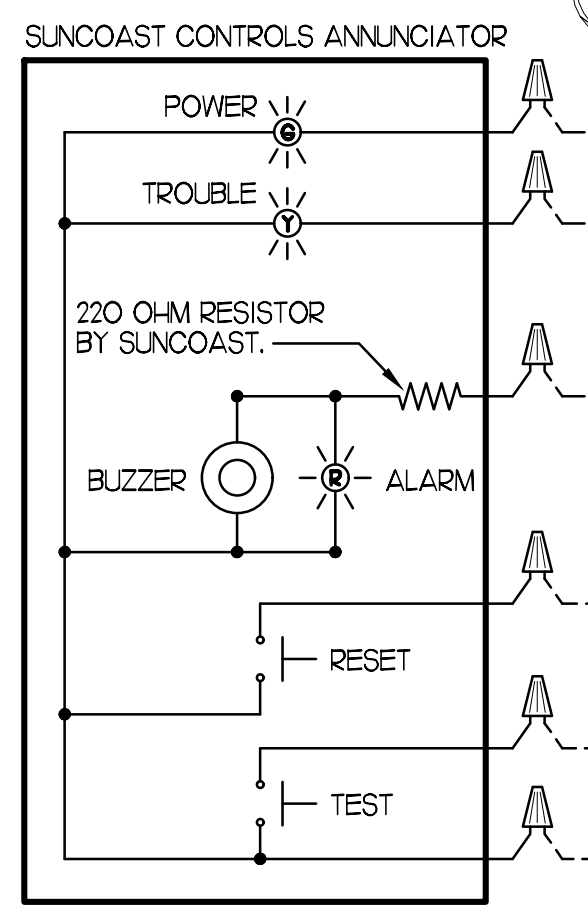
LEGEND

18 AWG MIN WIRING BY MECH CONTRACTOR

FACTORY ANNUNCIATOR DETECTOR WIRING

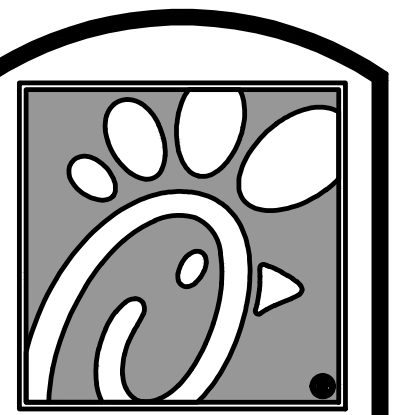
FACTORY LENNOX WIRING

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



3 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

NO SCALE

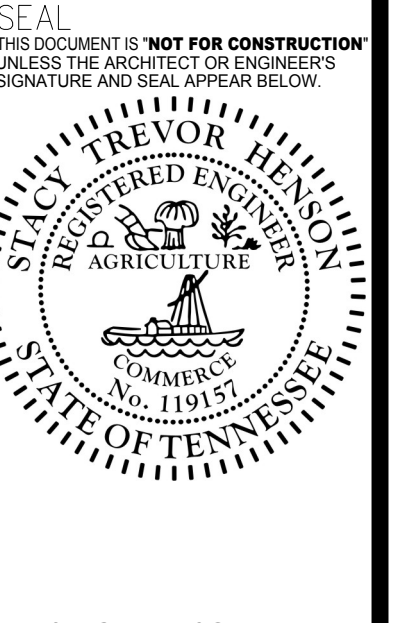


Chick-fil-A

5200 Buffington Rd.
 Atlanta Georgia,
 30349-2998

Revisions:

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STORE
 UNION AVENUE FSU
 S08E-R

1980 UNION AVE.
 MEMPHIS, TN. 38104

SHEET TITLE
 MECHANICAL
 DETAILS

VERSION: S08E-R
 ISSUE DATE: 06-2015

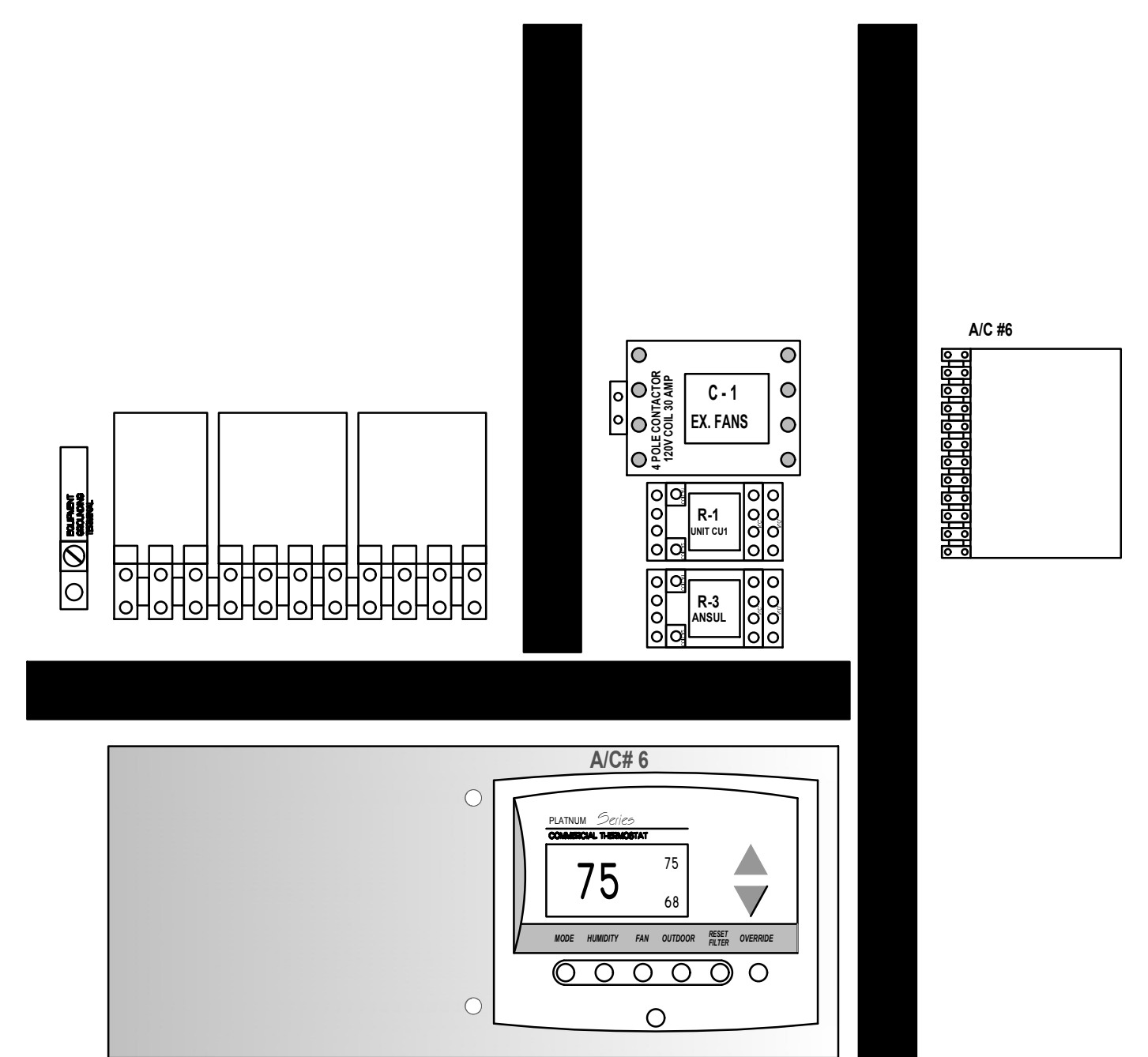
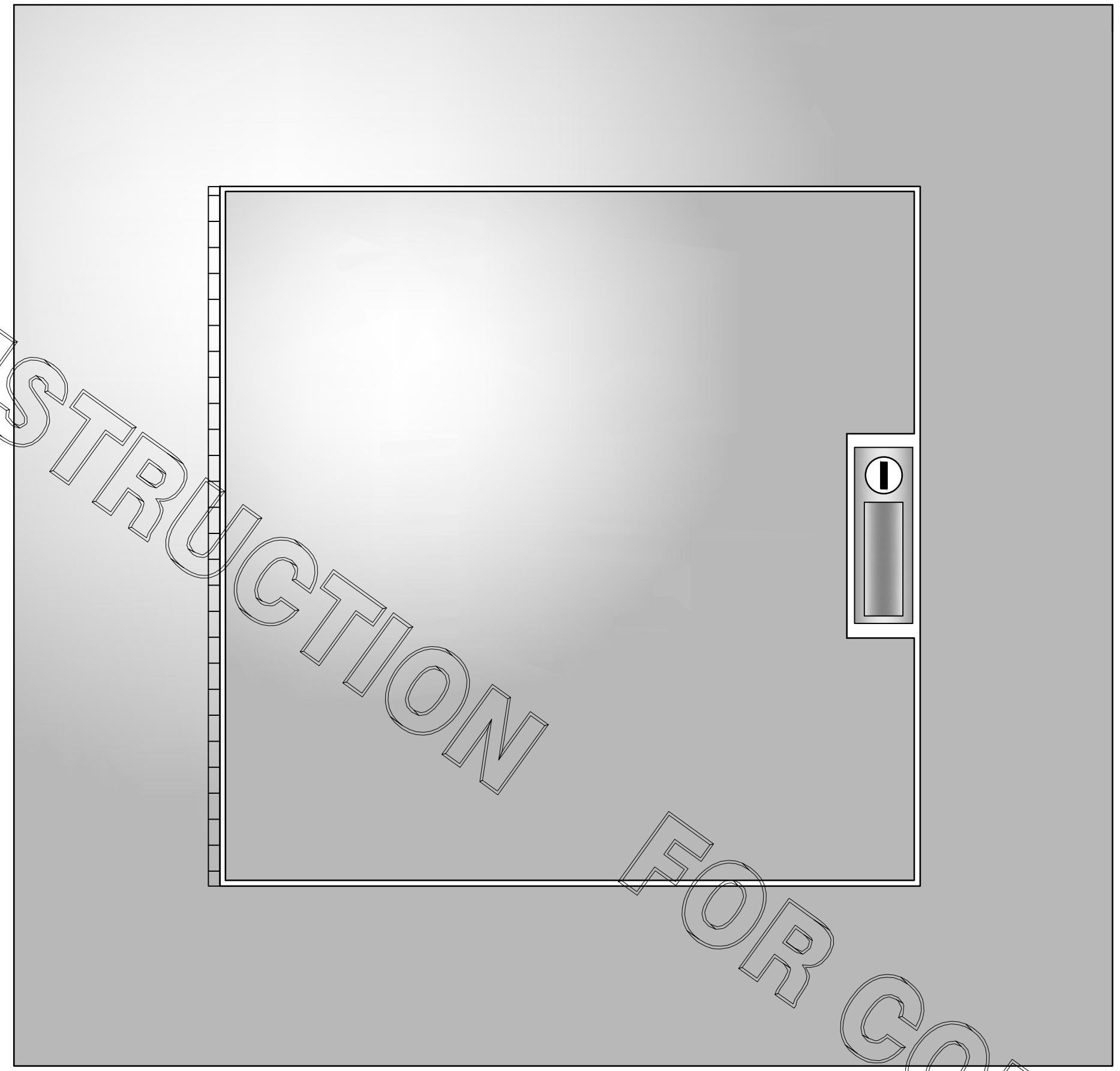
Job No. : 17.0134
 Store : 2308
 Date : 08.15.17
 Drawn By : DG
 Checked By : JL

Sheet

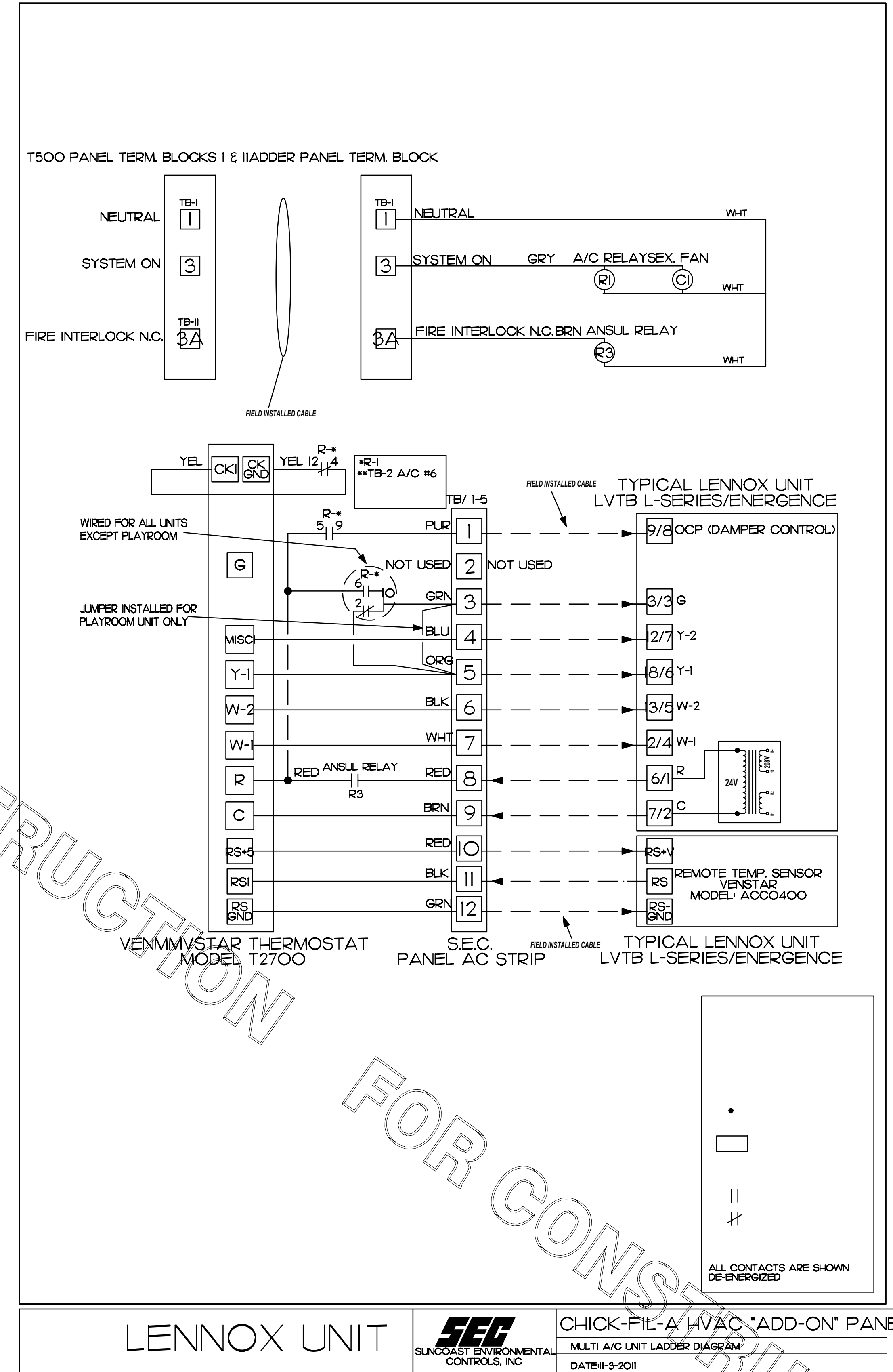
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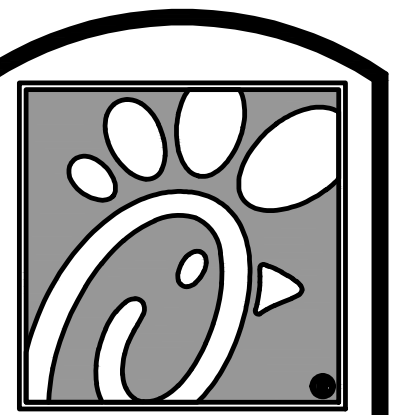
FOR CONSTRUCTION



1 SUNCOAST PANEL
NONE



LENNOX UNIT
CHICK-FIL-A HVAC "ADD-ON" PANEL
MULTI A/C UNIT LADDER DIAGRAM
DATE: 11-3-2011

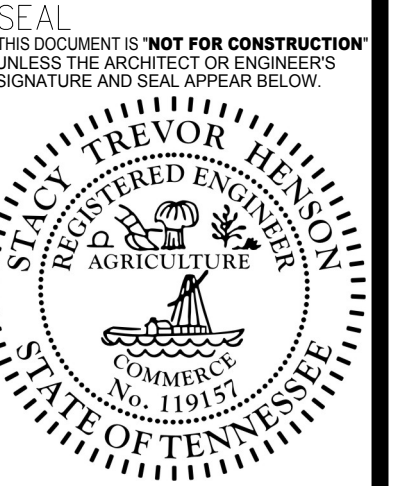


Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

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STORE
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S08E-R

1980 UNION AVE.
MEMPHIS, TN. 38104

SHEET TITLE
HVAC CONTROLS

VERSION: S08E-R
ISSUE DATE: 06-2015

Job No. : 17.0134
Store : 2308
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Drawn By : DG
Checked By: JL

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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.
- 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 M2.1 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 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. RADIUSSED 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 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. 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 OWNER'S 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.

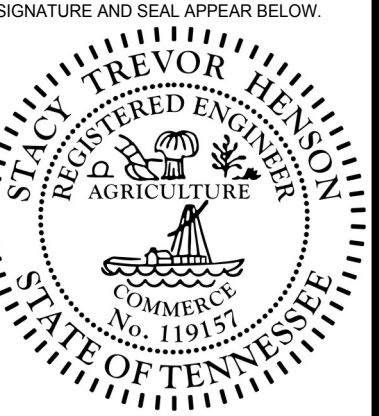


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STACY HENSON, P.E.

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Sheet

M-5.I

NATIONAL ACCOUNTS

1.	LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 800-367-6285 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.	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.
2.	LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE 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.	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.
3.	PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO 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.	7. ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
4.	AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO 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.	
5.	SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE	

FOR CONSTRUCTION

MODEL: KVL-2

STANDARD FEATURES

- S.S. FILTERS (KSA) 7
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET FAN FIRE DAMPER *
- STAND-OFF *

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED V/D EXHAUST DAMPER *
- CEILING CLOSURE 3
- STD. BACKSPLASH *
- INSULATED BACKSPLASH *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS:

- CLOSURE HEIGHT = TBD (THREE SIDES)
- CEILING HEIGHT = ADVISE CEILING CLOSURE RECESSES 1" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH LEFT SIDE ACCESS TO INSUL. TANKS
- 18"x18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET W/ FRONT C.J. INTAKE
- GREASE CUP ON LEFT END FULL LEFT END PANEL
- NOTCHED RIGHT END PANEL 3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED BY PRESSURE FRYERS (2) OR GRILLS

DATE: 09.18.17 **DWG. NO.:** U17-706-01 **ITEM NO.:** H-1 **EXHAUST AIR INFORMATION:** CFM 1700 T.A.B. SP .11' .28'

PROJECT: CHICK-FIL-A #2308 UNION AVENUE

LOCATION: MEMPHIS, TN

SUBMITTED BY: HALTON CO.

Halton

MODEL: KVL-C

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET FAN FIRE DAMPER *
- STAND-OFF *

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED V/D EXHAUST DAMPER *
- CEILING CLOSURE 2
- STD. BACKSPLASH *
- INSULATED BACKSPLASH *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS:

- CLOSURE HEIGHT = TBD (TWO SIDES)
- CEILING HEIGHT = ADVISE CEILING CLOSURE RECESSES 1" FROM FRONT TO CREATE SHELF
- 18"x18" ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT C.J. INTAKE
- NOTCHED RIGHT END PANEL
- DOUBLE RECEPTACLE PIN & SLEEVE
- 3" x 3" TRIM STRIP FOR STAND-OFF ON LEFT END
- 3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED (2) FRYERS

DATE: 09.18.17 **DWG. NO.:** U17-706-01 **ITEM NO.:** H-2 **EXHAUST AIR INFORMATION:** CFM 701 T.A.B. SP .26' .48'

PROJECT: CHICK-FIL-A #2308 UNION AVENUE

LOCATION: MEMPHIS, TN

SUBMITTED BY: HALTON CO.

Halton

MODEL: KVM

STANDARD FEATURES

- S.S. FILTERS (KSA) 4
- CAPTURE-JET FAN FIRE DAMPER *
- STAND-OFF *
- INCANDESCENT LIGHT 1

OPTIONS

- REMOTE SWITCH PANEL *
- FIRE PROTECTION *
- ETL LISTED V/D EXHAUST DAMPER *
- CEILING CLOSURE 3
- STD. BACKSPLASH *
- INSULATED BACKSPLASH *

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

ALL 18 GA. S.S.

COMMENTS:

- CLOSURE HEIGHT = TBD (THREE SIDES)
- CEILING HEIGHT = ADVISE CEILING CLOSURE RECESSES 1" FROM FRONT TO CREATE SHELF
- FRONT CLOSURE PANEL WITH CUSTOM 60" SINGLE ACCESS DOOR LEFT SIDE
- SIZE-JET PLENUM SUPPLIED BY HALTON INSTALLER BY OTHERS (DETAIL "A")
- CUSTOM 60" SINGLE ACCESS DOOR LEFT SIDE
- NOTCHED LEFT END PANEL SIDE SHIELD ON RIGHT SIDE
- NEEDS TO GET ADJUSTABLE TRIM ANGLES
- EQUIPMENT COVERED BY FRYERS, GRILLS, ETC. (VEN ANNUAL WEIGHT= 63 LBS HOOD WEIGHT= 600 LBS)

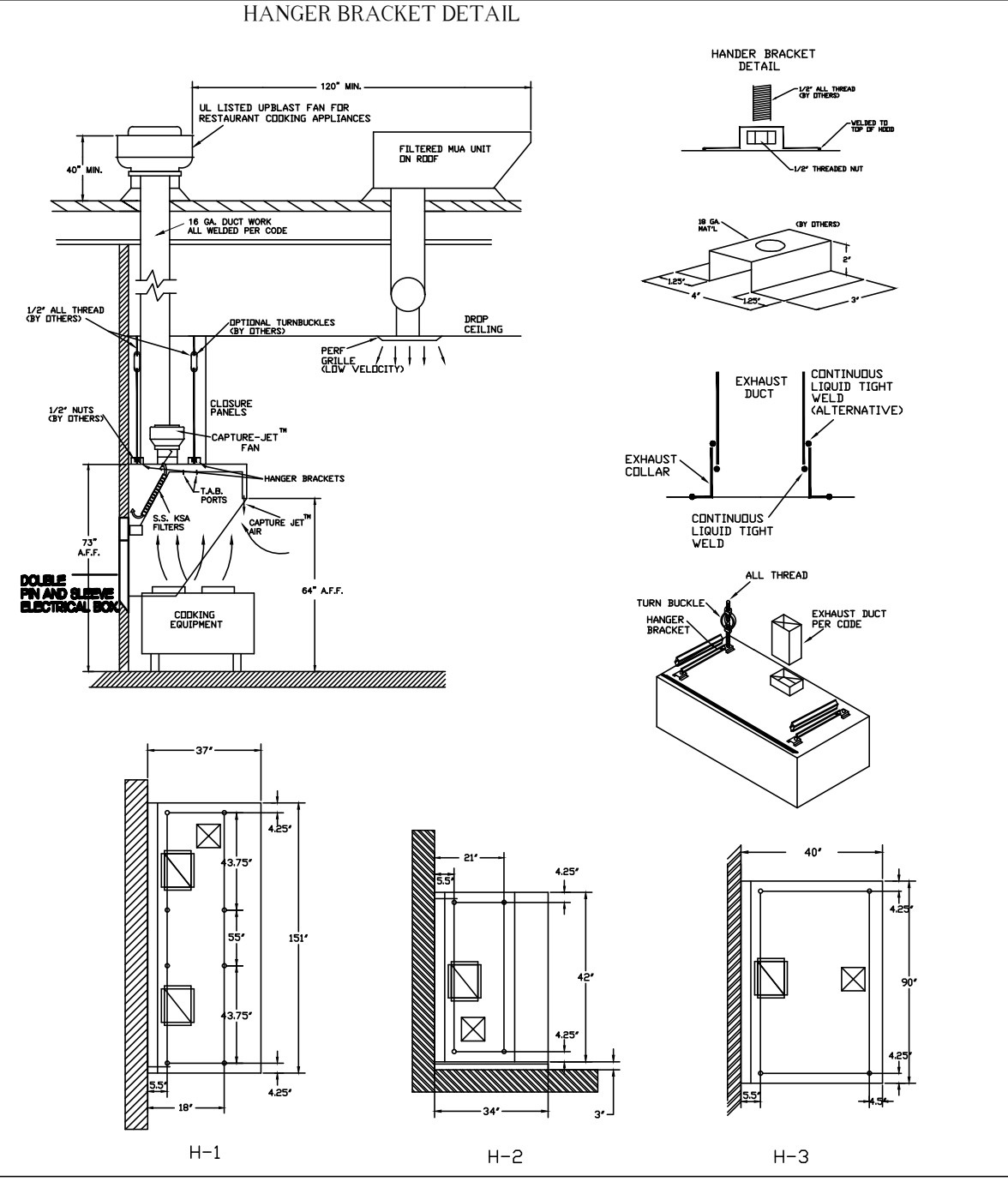
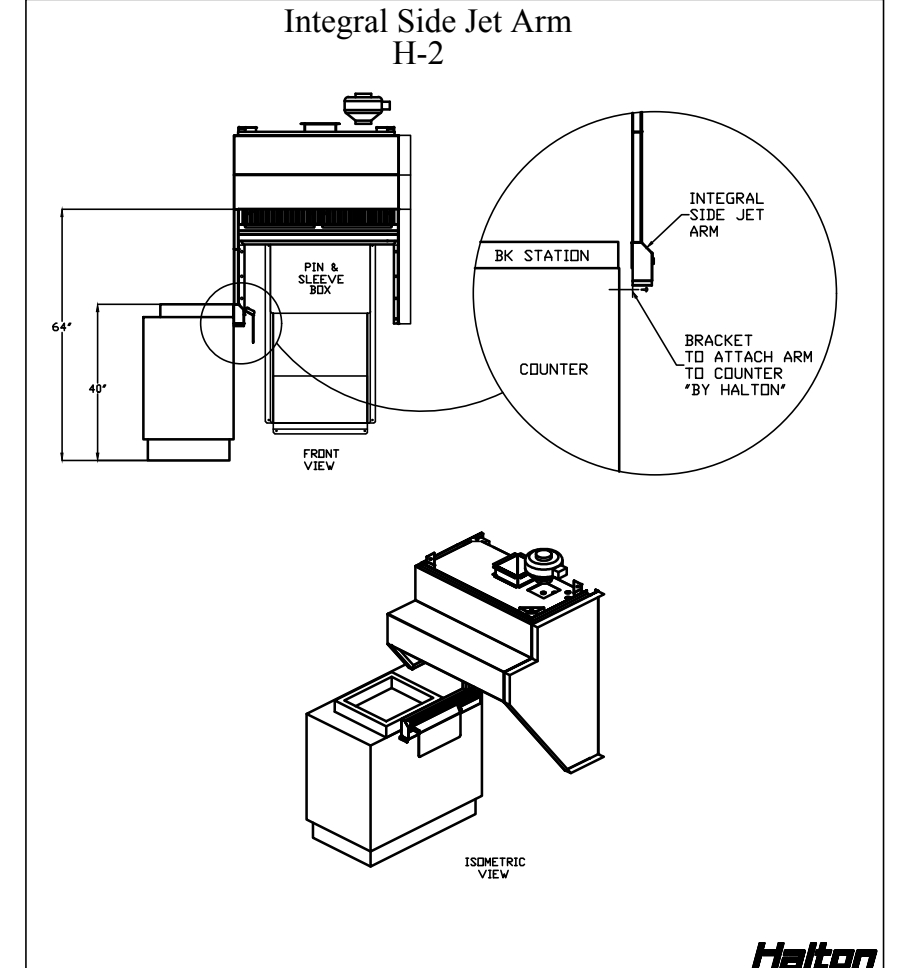
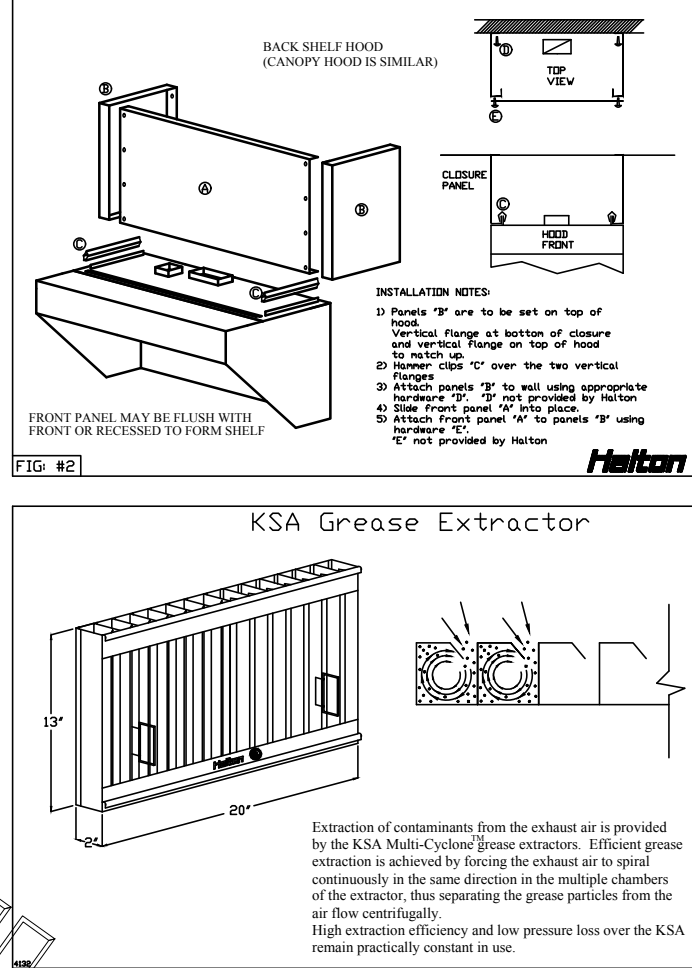
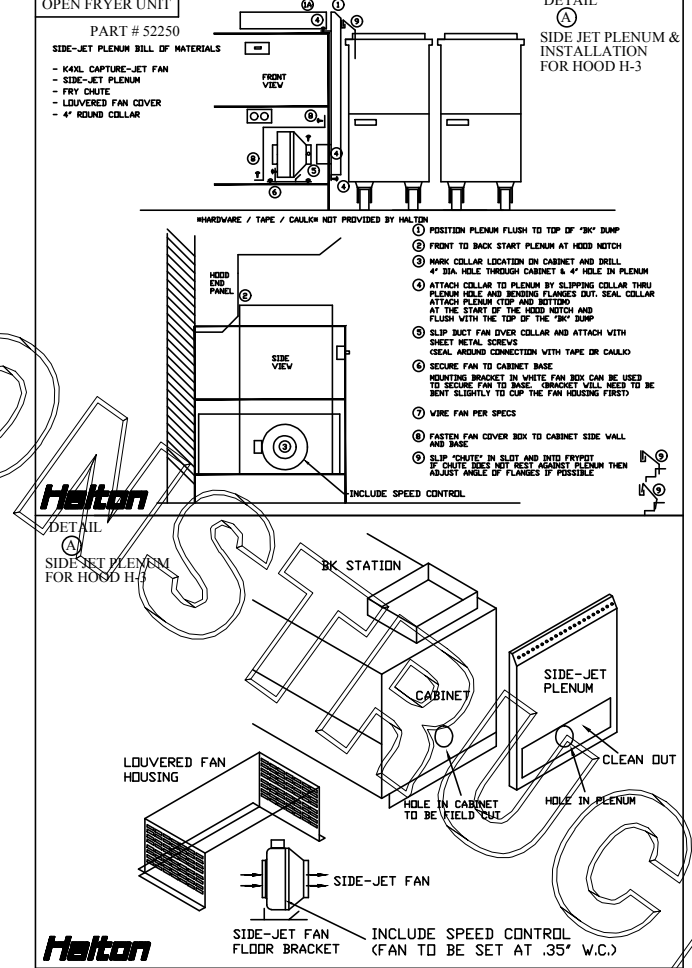
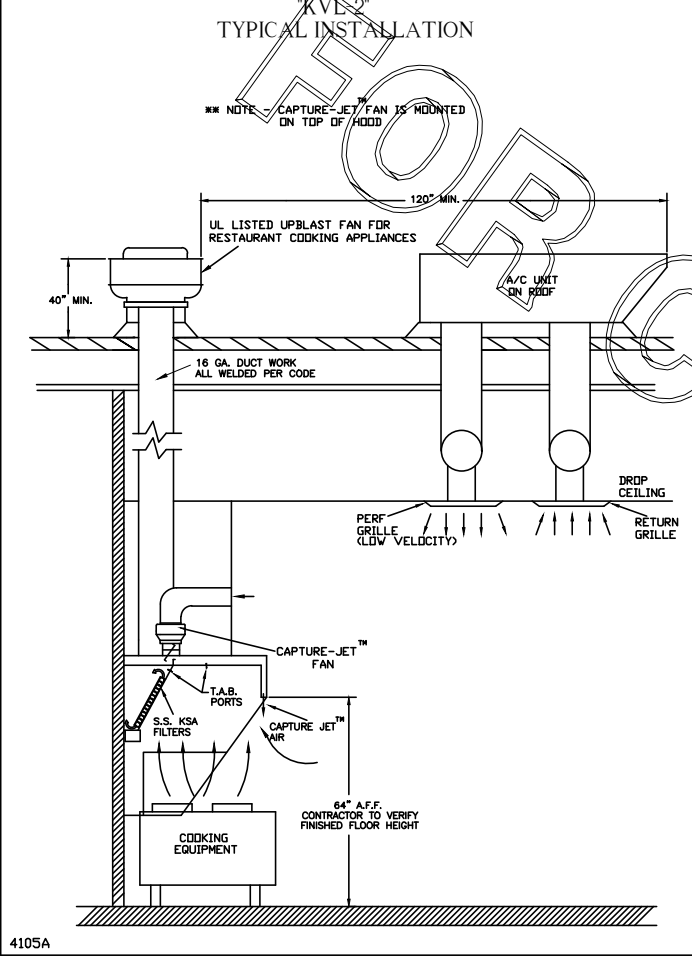
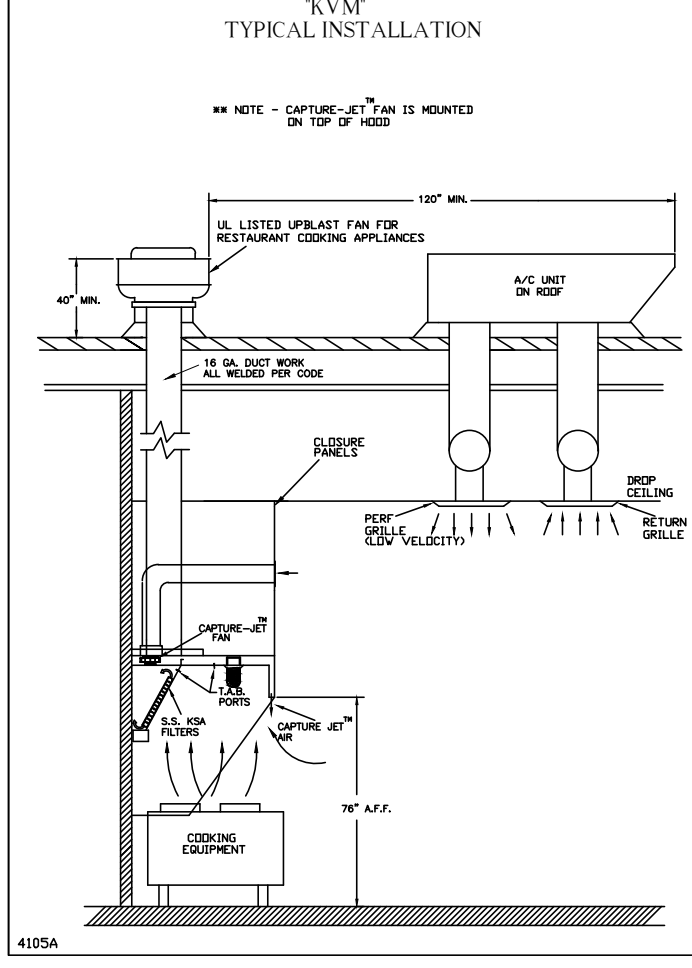
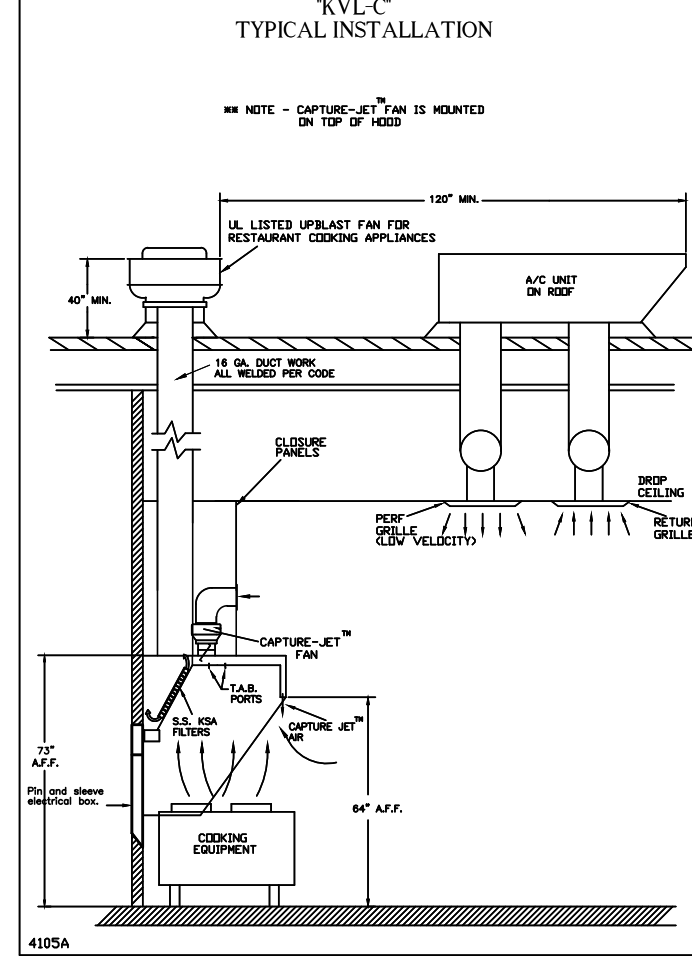
DATE: 09.18.17 **DWG. NO.:** U17-706-01 **ITEM NO.:** H-3 **EXHAUST AIR INFORMATION:** CFM 804 T.A.B. SP .09' .31'

PROJECT: CHICK-FIL-A #2308 UNION AVENUE

LOCATION: MEMPHIS, TN

SUBMITTED BY: HALTON CO.

Halton



Capture-Jet Fan Installation and Dimensional Data

Front of Closures

CJ Intake w/ Collar Fitting (Back side)

Closure Front

MODEL	AIR FLOW @1" SP	βD	βd	A	HP	FLA	VOLTAGE	LBS.
K4XL	30 CFM - 80 CFM	9.50"	4.0"	6.0"	.11	.75	120/1/60	6.6
K6XL	70 CFM - 170 CFM	13.20"	6.0"	6.0"	.20	1.31	120/1/60	10.6
K8XL	100 CFM - 240 CFM	13.20"	6.0"	6.0"	.20	1.32	120/1/60	11

TAG	MODEL	QTY	AIRFLOW
H-1	K6XL	1	113
H-2	K4XL	1	30

5 AMP SPEED CONTROLLER LOCATION

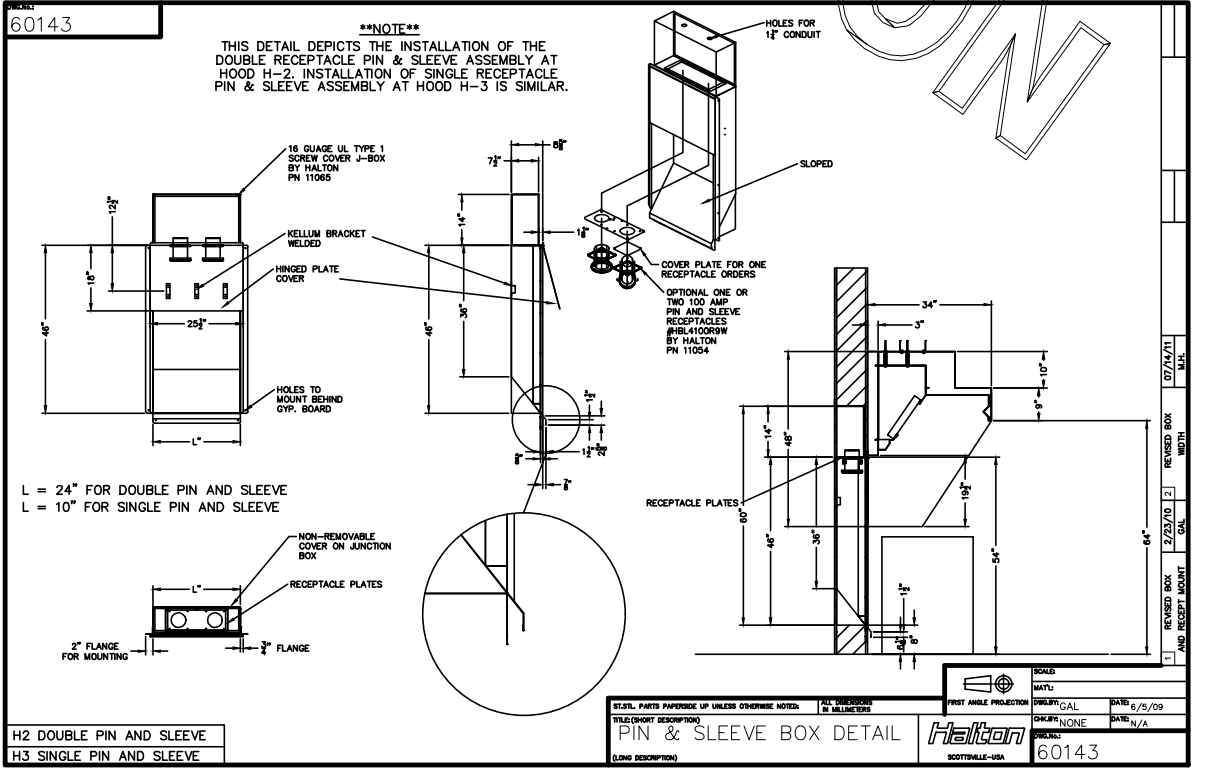
TOP OF HOOD

MOTOR CTRL. PANEL

PROJECT: CHICK-FIL-A #2308 **DATE:** 09.18.17

LOCATION: MEMPHIS, TN **DWG:** U17-706-01

Halton



Halton

HALTON COMPANY, 30 INDUSTRIAL DR., SCOTTSDALE, KY 42564

MODEL NO. SERIAL NO.

UL LISTED

NSF LISTED

NSF 710 STANDARD

NSF 96

Halton

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSDALE, KY 42564

MODEL NO. SERIAL NO.

UL LISTED

NSF LISTED

NSF 710 STANDARD

NSF 96

Halton

HALTON COMPANY, 30 INDUSTRIAL DR., SCOTTSDALE, KY 42564

MODEL NO. SERIAL NO.

UL LISTED

NSF LISTED

NSF 710 STANDARD

NSF 96

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

- ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS
- THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER: ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES REQUIRING A RECALCULATION EXHAUST AIRFLOW MUST BE RECALCULATED.

REVISE AND RESUBMIT

APPROVED FOR FABRICATION

WITH NO CHANGES

WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____

WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSDALE, KY 42564 1-270-637-5600

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

REVISION DESCRIPTION

REV	DATE	BY
1		
2		
3		
4		
5		
6		
7		

PROJECT: CHICK-FIL-A #2308 UNION AVENUE

LOCATION: MEMPHIS, TN

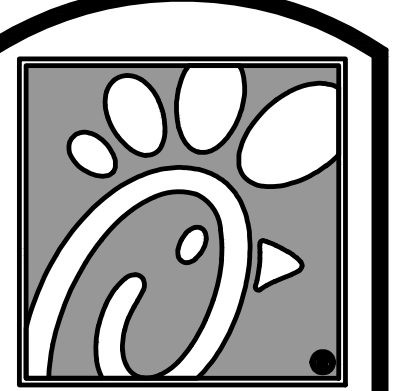
DRAWN BY: M.H. DATE: 09.18.17

SCALE: NTS

Halton Dwg: U17-706-01

Halton

CARE FOR INDOOR AIR



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
△		
△		
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FOR INFORMATION ONLY

STACY HENSON, P.E.

INTERPLAN

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
PROJECT MANAGEMENT

604 COURTLAND STREET SUITE 100
ORLANDO, FLORIDA 32804
PH 407.645.5008
FX 407.629.9124

STORE UNION AVENUE FSU S08E-R

1980 UNION AVE. MEMPHIS, TN. 38104

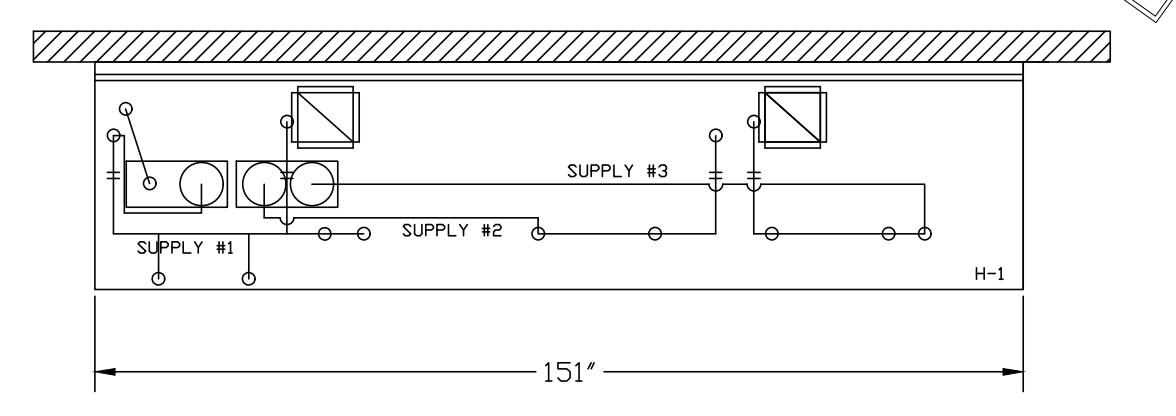
SHEET TITLE HALTON HOODS DETAILS

VERSION: S08E-R
ISSUE DATE: 06-2015

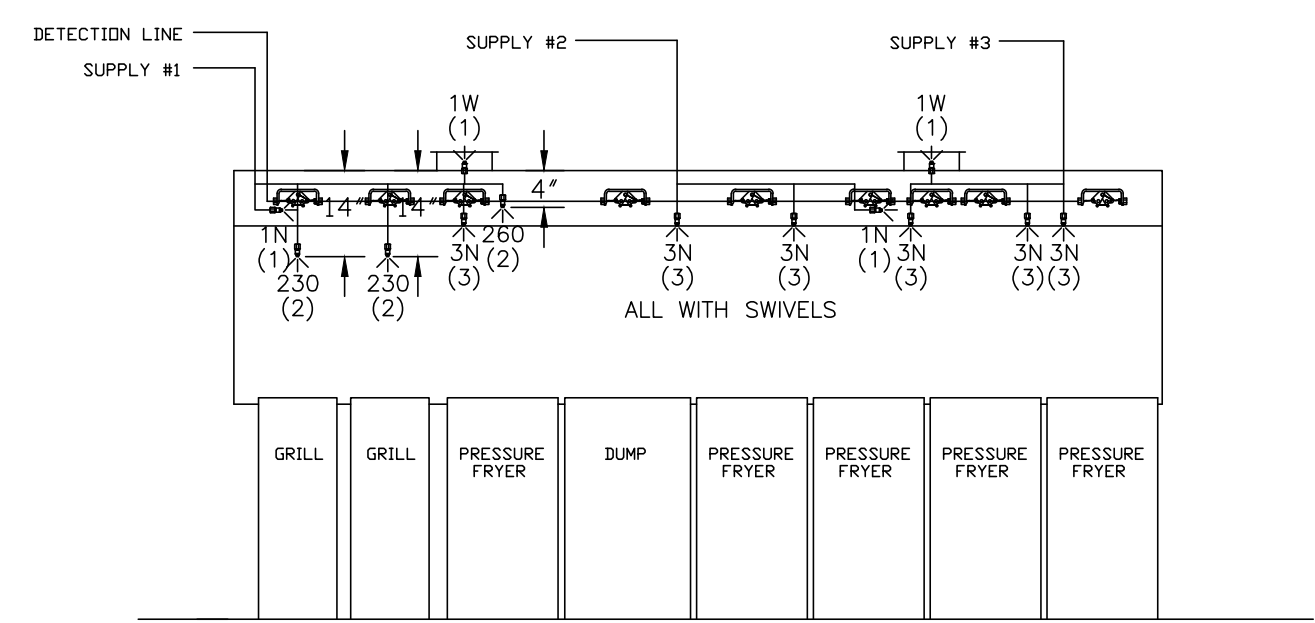
Job No. : 17.0134
Store : 2308
Date : 08.15.17
Drawn By : DG
Checked By : JL

Sheet **MH-1.1**

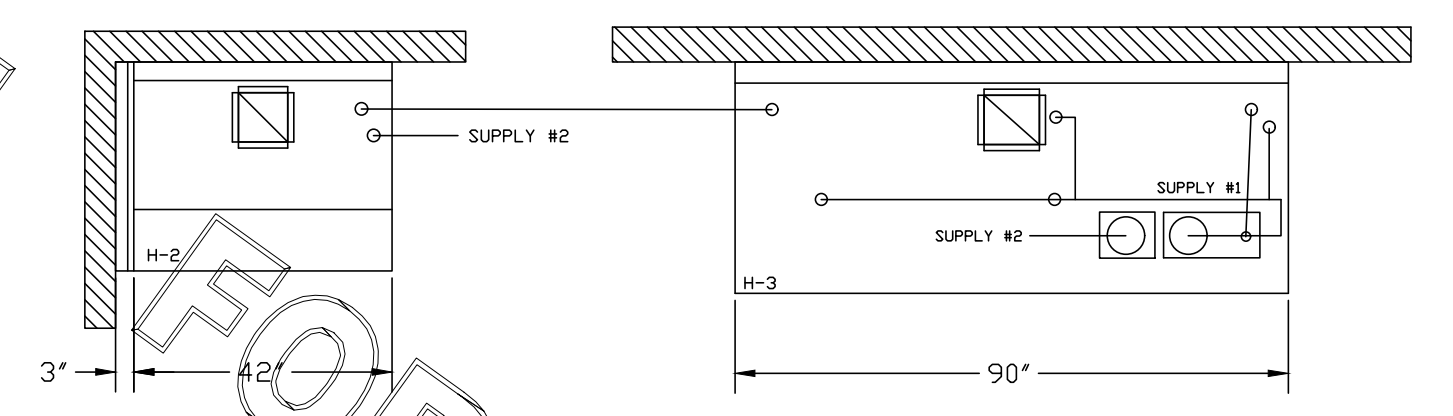
FOR CONSTRUCTION



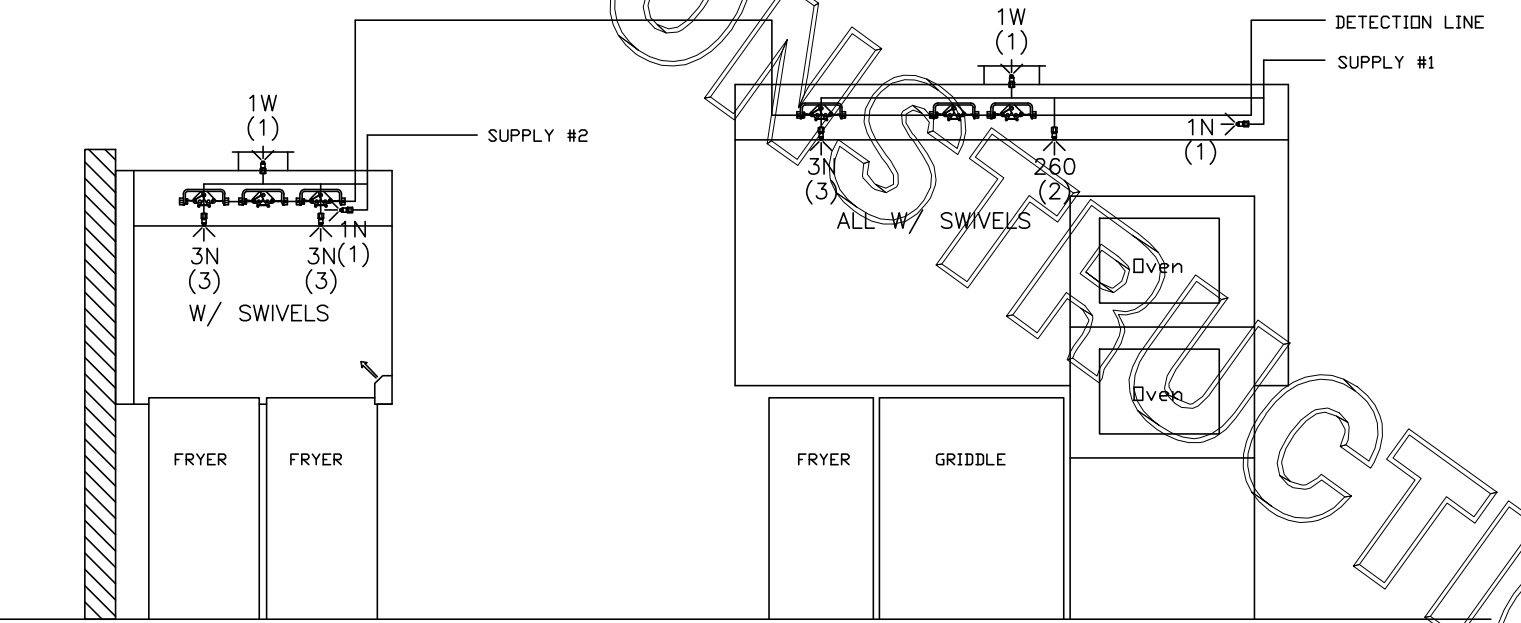
- ANSUL R-102 FIRE SYSTEM
- (1) REGULATED RELEASE
 - (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
 - (3) DOUBLE TANK ENCLOSURE
 - (4) 3 GALLON TANKS
- A) 9 GALLON SYSTEM (3 TANKS) MOUNTED ON HOOD H-1 FOR HOOD H-1
- B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS



ANSUL R-102 FIRE SYSTEM LAYOUT



- ANSUL R-102 FIRE SYSTEM
- (1) REGULATED RELEASE
 - (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
 - (3) SINGLE TANK ENCLOSURE
 - (4) 3 GALLON TANK
- A) 6 GALLON SYSTEM (2 TANKS) MOUNTED ON HOOD H-2 FOR HOOD H-2 & H-3
- B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS



ANSUL R-102 FIRE SYSTEM LAYOUT

FUSIBLE LINK RATINGS

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

ANSUL R-102 FIRE SYSTEM NOTES
THREE TANK SYSTEM MOUNTED ON TOP OF (H-1)
MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES
TWO TANK SYSTEM MOUNTED ON TOP OF (H-3)
MAXIMUM FLOW POINTS = 22

ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	4	DUCT NOZZLES	4
1N	4	PLENUM NOZZLES	4
230	2	APPLIANCE NOZZLES	4
3N	9	APPLIANCE NOZZLES	27
260	2	APPLIANCE NOZZLES	4
TOTAL FLOW POINTS = 43			

ITEM #	QTY	DESCRIPTION
#200	13	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	2	REGULATED RELEASE
#203	5	W/ DOUBLE POLE MICRO SWITCH
#204	1	3 GALLON TANKS
#205	1	SINGLE TANK ENCLOSURE
#206	2	DOUBLE TANK ENCLOSURE REMOTE PULL STATION

- ANSUL R-102 FIRE SYSTEM
UL LISTED PER STD LATEST STD 300
- FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
 - ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN. MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
 - REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

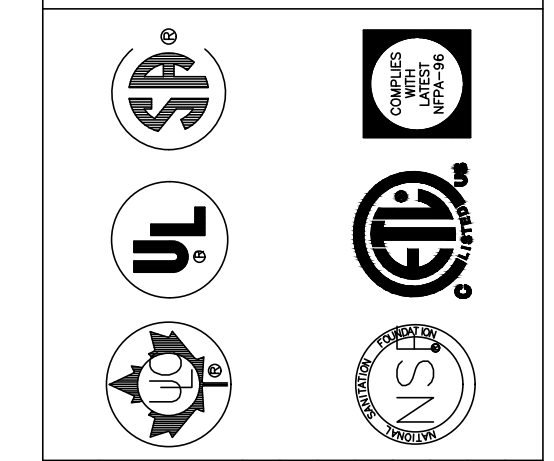
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NOTE TO APPROVER
ANY CHANGES IN COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT CHANGES REQUIRING RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

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

APPROVED BY: _____ DATE: _____



MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:		WEBSITE: WWW.HALTONCOMPANY.COM	
HALTON CO. (USA)	101 INDUSTRIAL DRIVE	SCOTSDALE, AZ 85264	1-278-2637-5600
HALTON CO. (CANADA)	1021 BREVIK PLACE	MISSISSAUGA, ON L4W 3R7	1-905-624-0301
REV	DATE	DESCRIPTION	
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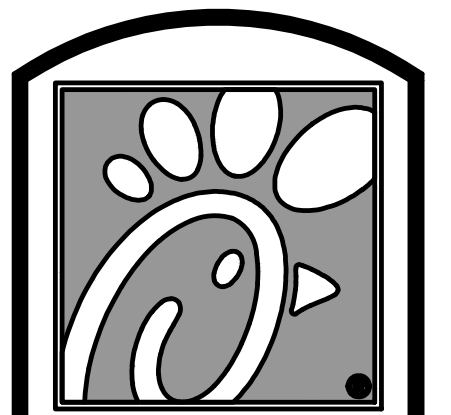
PROJECT: CHICK-FIL-A #2308
UNION AVENUE

LOCATION: MEMPHIS, TN

DRAWN BY: M.H. | DATE: 09.18.17

SCALE: NTS

Halton
CARE FOR INDOOR AIR



5200 Buffington Rd.
Atlanta Georgia,
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Revisions:

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FOR INFORMATION ONLY

STACY HENSON, P.E.

INTERPLAN
ARCHITECTURE
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604 COURTLAND STREET
SUITE 100
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PH 407.645.5008
FX 407.629.9124

STORE
UNION AVENUE FSU
S08E-R

1980 UNION AVE.
MEMPHIS, TN. 38104

SHEET TITLE
HALTON HOODS
DETAILS

VERSION: S08E-R
ISSUE DATE: 06-2015

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Drawn By : DG
Checked By : JL

Sheet
MH-I.2

FOR CONSTRUCTION