

KEY NOTES

- 1 MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL.
- 2 CJ#4 MOUNTED INSIDE CABINTRY SERVING SCJ PLENUM, SEE DETAIL 2/M2-1.
- 3 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- 4 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. PROVIDE TURNING VANES IN ELBOW.
- 5 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN WITHIN CURB. NO TURNING VANES IN ELBOW.
- 6 R/A DUCT DROP TO BE FULL SIZE OF CURB CONNECTION. TERMINATE DROP 0'-6" ABOVE CEILING.
- 7 MOUNT LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 8 LOCATE A MINIMUM OF 10 FT FROM PARAPETS. SEE DETAIL 3/M3-1 FOR ORIENTATION OF HINGE SIDE OF FAN ON CURB.
- 9 IOXIO DUCT DOWN.
- 10 MOUNT REMOTE SENSOR FOR PLAYGROUND 10'-4" AFF. ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL.
- 11 NOT USED.
- 12 MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- 13 AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-5" AFF TO BOTTOM OF UNIT. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- 14 SEE ELEVATIONS ON M2-1 FOR CJ FAN DUCTING REQUIREMENTS.
- 15 R/A DUCT DROP TO BE FULL SIZE OF CURB CONNECTION. TERMINATE DROP 0'-6" ABOVE CEILING.
- 16 18X34 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 34X18 SUPPLY MAIN. 34X18 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 18X18 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- 17 16X18 VERTICAL DROP. PROVIDE TURNING VANES IN ELBOW. 18X16 SUPPLY MAIN TO BE LOCATED ENTIRELY BELOW JOISTS. HOLD 18X16 SUPPLY MAIN AS HIGH AS POSSIBLE DUE TO LIMITED CLEARANCE.
- 18 SEE DETAIL 5/M3-1 FOR TEE AND SPLITTER DAMPER CONSTRUCTION.
- 19 PROVIDE 8" GALVANIZED COMBUSTION AIR DUCT WITH VENT CAP AND ROOF JACK. LOCATE COMBUSTION AIR DUCT, MIN 18" AWAY FROM PARAPET. SEE ARCH ROOF PLAN FOR PARAPET LOCATIONS. ROUTE COMBUSTION AIR DUCT STRAIGHT DOWN AND TERMINATE 8" BELOW CEILING. WRAP DUCT ABOVE CEILING WITH 1/2" BATT INSULATION AND PROVIDE CHROME ESCUTCHEON AT CEILING PENETRATION.

GREASE ACCESS DOOR SCHEDULE

| MARK | OPENING SIZE | DOOR SIZE | REMARKS |
|------|--------------|-------------|---------|
| A | 10.5H X 14W | 12.5H X 16W | I |
| B | 5.5H X 14W | 7.5H X 16W | I |

1) ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THREE SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRETON INDUSTRIES, INC (800) 382-2491.

AIR BALANCE SCHEDULE

| AIR TYPE | TOTAL CFM |
|----------------------------|-----------|
| SUPPLY | 16,440 |
| RETURN | 11,785 |
| EXHAUST | 3,975 |
| OUTSIDE AIR | 4,615 |
| BUILDING POSITIVE PRESSURE | 640 |

SHEET NOTES

- 1 DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.

LEGEND

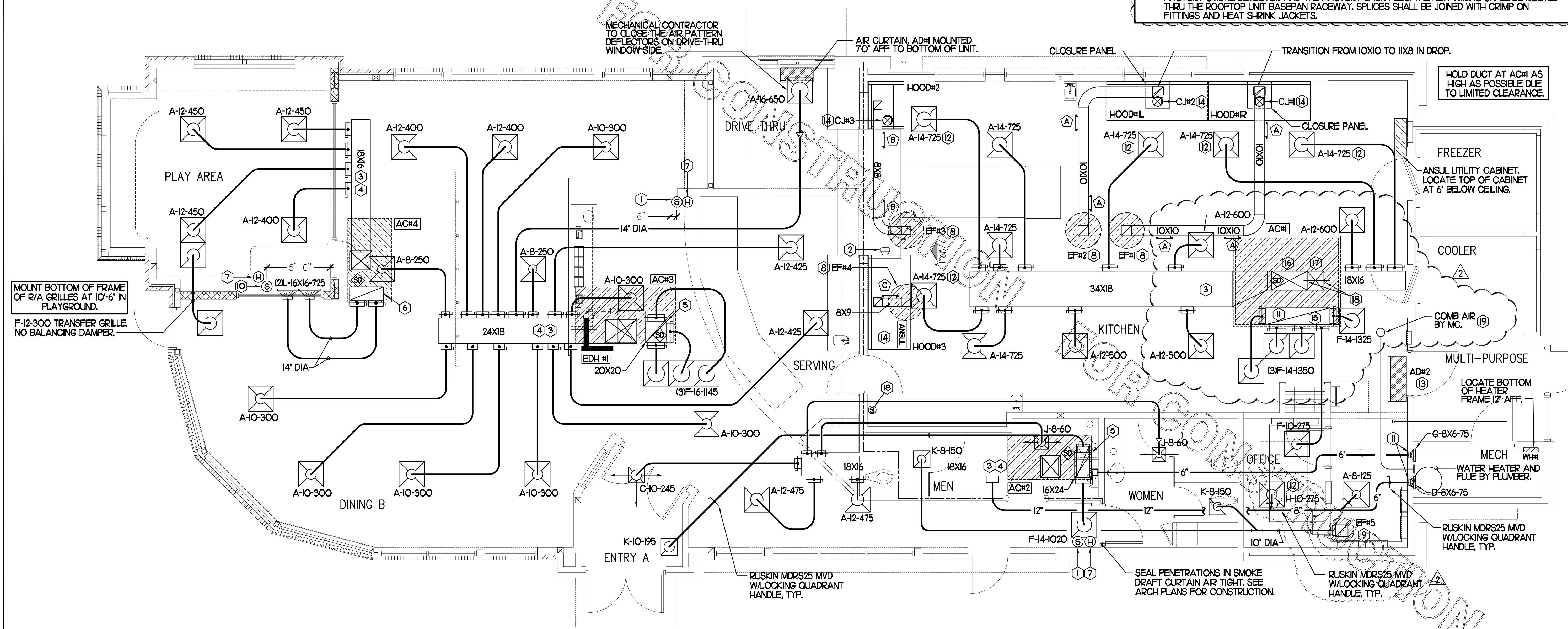
| A-12-400 | TYPE - NECK SIZE - CFM | EF#1 | EX-HAUST FAN #1 (TYP.) |
|----------|---|------|---------------------------------|
| + | SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP | ACH | AIR CONDITIONING UNIT #1 (TYP.) |
| ⊕ | SPIN-IN HARD Ø FLEXIBLE Ø DIFFUSER | ⊗ | RETURN/EXHAUST (TYP.) |
| ⊖ | REMOTE TEMPERATURE SENSOR | ⊗ | SUPPLY DIFFUSER, SQ FACE (TYP.) |
| ⊕ | HUMIDITY SENSOR | ⊕ | PLAN NOTE REFERENCE |
| ⊖ | SMOKE DETECTOR | ⊖ | MANUAL VOLUME DAMPER |
| 12X18 | DUCT SIZE (REVERSE FOR ELEVATION VIEWS) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION | → | DIRECTION OF THROW ON DIFFUSER |

LENNOX FRESH AIR TEMPERING SETUP

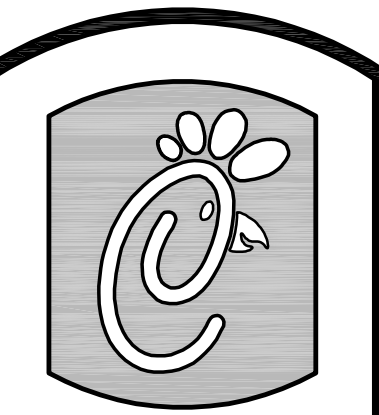
- 1 INSTALL FRESH AIR TEMPERING KIT WIRING HARNESS AS RECOMMENDED BY LENNOX.
- 2 LOCATE SUPPLY AIR TEMPERATURE SENSOR IN SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT OR STRUCTURE WITH RUBBER COATED CLAMPS. DO NOT RUN WIRING INSIDE DUCT WORK. PROTECT ALL WIRING PENETRATIONS WITH RUBBER GROMMETS.
- 3 CHANGE ROOFTOP UNIT ECTO PARAMETER 6.20 TO A VALUE OF 145. THIS WILL PREVENT THE SUPPLY AIR TEMPERATURE FROM DROPPING BELOW 66F DEG DURING HEATING MODE WHEN THERMOSTAT IS NOT ACTIVELY CALLING FOR HEAT. ECTO PARAMETER 6.20 MUST BE CHANGED TO ACTIVATE THE FRESH AIR TEMPERING FEATURE.
- 4 CHANGE ROOFTOP UNIT ECTO PARAMETER 6.21 TO A VALUE OF 21 WHICH WILL MAKE THE DEADBAND VALUE EQUAL 14F.
- 5 CHANGE ROOFTOP UNIT ECTO PARAMETER 6.22 TO A VALUE OF 37 WHICH WILL MAKE THE CYCLE TIME VALUE EQUAL 5 MINUTES.

LENNOX SMOKE DETECTOR INSTALLATION NOTES

- 1 MECHANICAL CONTRACTOR SHALL RELOCATE THE FACTORY INSTALLED SUPPLY SIDE SMOKE DETECTOR FROM THE BLOWER SECTION TO THE SUPPLY DUCT DROP ABOVE THE FIRST 90 DEGREE DUCT FITTING.
- 2 THE MECHANICAL CONTRACTOR SHALL SPLICE NEW PLENUM RATED CABLE BETWEEN THE FACTORY SMOKE DETECTOR AND THE FACTORY JACK PLUG. THE NEW WIRING SHALL BE ROUTED THRU THE ROOFTOP UNIT BASEPAN RACEWAY. SPLICES SHALL BE JOINED WITH CRIMP ON FITTINGS AND HEAT SHRINK JACKETS.



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



Chicken

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By
2 7-22-11 BUILDING COMMENTS

Mark Date By
1

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1

Seal

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Narrow 104

Mantua Square
Mantua, NJ

SHEET TITLE
MECHANICAL
FLOOR PLAN

VERSION: 5
ISSUE DATE: 1-2011

Job No. : CF1103
Store : #2722
Date : 2/21/11
Drawn By :
Checked By :

Sheet
M-11

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 FIBREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FIBREWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT HOOD#1L AND HOOD#1R FROM WALL AND STRUCTURE AS SHOWN ON HALTON SHOP DRAWINGS. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TETRON SDS EDT265. LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD. FRONT EDGE OF HOOD TO BE SUPPORTED FROM STRUCTURE WITH MIN # 1 ATR. SHEATH THE ATR WITH 300 SERIES STAINLESS STEEL TUBING. NO LETTERING OR MARKINGS ON TUBING. TUBING TO EXTEND THRU ACT CEILING. PROVIDE STAINLESS STEEL ESCUTCHEON AT CEILING PENETRATION.
10. SUPPORT HOOD#2 AND HOOD#3 WITH 3/8" DIA. ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWING S5-1.
11. JOIN HOODS #1L AND #1R TOGETHER WITH SAE GRADE 5 HARDWARE AS SHOWN ON HALTON SHOPS.

HOOD SCHEDULE

| MARK | EXHAUST CFM | SP * TAB PORT | CAPTURE JET CFM & SP. | TYPE | COLLAR SIZE | WIDTH | DEPTH | HEIGHT | MANUFACTURER | MODEL | REMARKS |
|---------|-------------|---------------|-----------------------|------------|-------------|-------|-------|--------|--------------|-------|--------------------------------|
| HOOD#1R | 1,085 | 012" | 73 * 0.30" | BACK SHELF | 17X8" | 97" | 37" | 38" | HALTON | KVL-2 | 1,4,5,7,13,19,20,21 |
| HOOD#1L | 1,085 | 012" | 73 * 0.30" | BACK SHELF | 17X8" | 97" | 37" | 38" | HALTON | KVL-2 | 1,4,5,7,10,13,19,20,21 |
| HOOD#2 | 701 | 026" | 30 * 0.29" | BACK SHELF | 8X8" | 45" | 34" | 48" | HALTON | KVL-C | 1,2,4,8,9,10,11,13,16,18,19 |
| HOOD#3 | 804 | 009" | 68 * 0.45" | CANOPY | 9X8" | 90" | 40" | 49" | HALTON | KVM | 1,3,4,6,8,12,14,15,16,17,19,22 |

- NOTES: DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).
- REMARKS:
1. STAINLESS STEEL CONSTRUCTION.
 2. PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN.
 3. PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO SERVICE ANSUL COMPONENTS.
 4. PROVIDE PRE-PIPED ANSUL R-102 WET FIRE EXTINGUISHING SYSTEM.
 5. PROVIDE UTILITY CABINET TO ENCLOSE REMOTE WALL MOUNTED ANSUL COMPONENTS FOR HOOD#1L AND HOOD#1R.
 6. ANSUL CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
 7. PROVIDE 3" BACK SPACER.
 8. PROVIDE 3" CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
 9. PROVIDE 3" RIGHT SIDE SPACER.
 10. PROVIDE NOTCHED LEFT END SIDE PANEL.
 11. PROVIDE 3X3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
 12. PROVIDE SIDE SHIELD ON LEFT END.
 13. PROVIDE TOP PLENUM CAPTURE JET FAN, SPEED CONTROLLER AND COLLAR.
 14. PROVIDE COUNTER MOUNTED SIDE CAPTURE JET PLENUM ASSEMBLY AND FAN ON RIGHT SIDE OF HOOD.
 15. PROVIDE FACTORY INSTALLED CAPTURE JET FAN IN PLENUM.
 16. PROVIDE CAPTURE JET AIR INLET AND COLLAR AT FRONT OF CLOSURE PANEL.
 17. PROVIDE PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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 19. PROVIDE EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
 20. PROVIDE SLOPED FALSE TOP AND DUCT ENCLOSURE.
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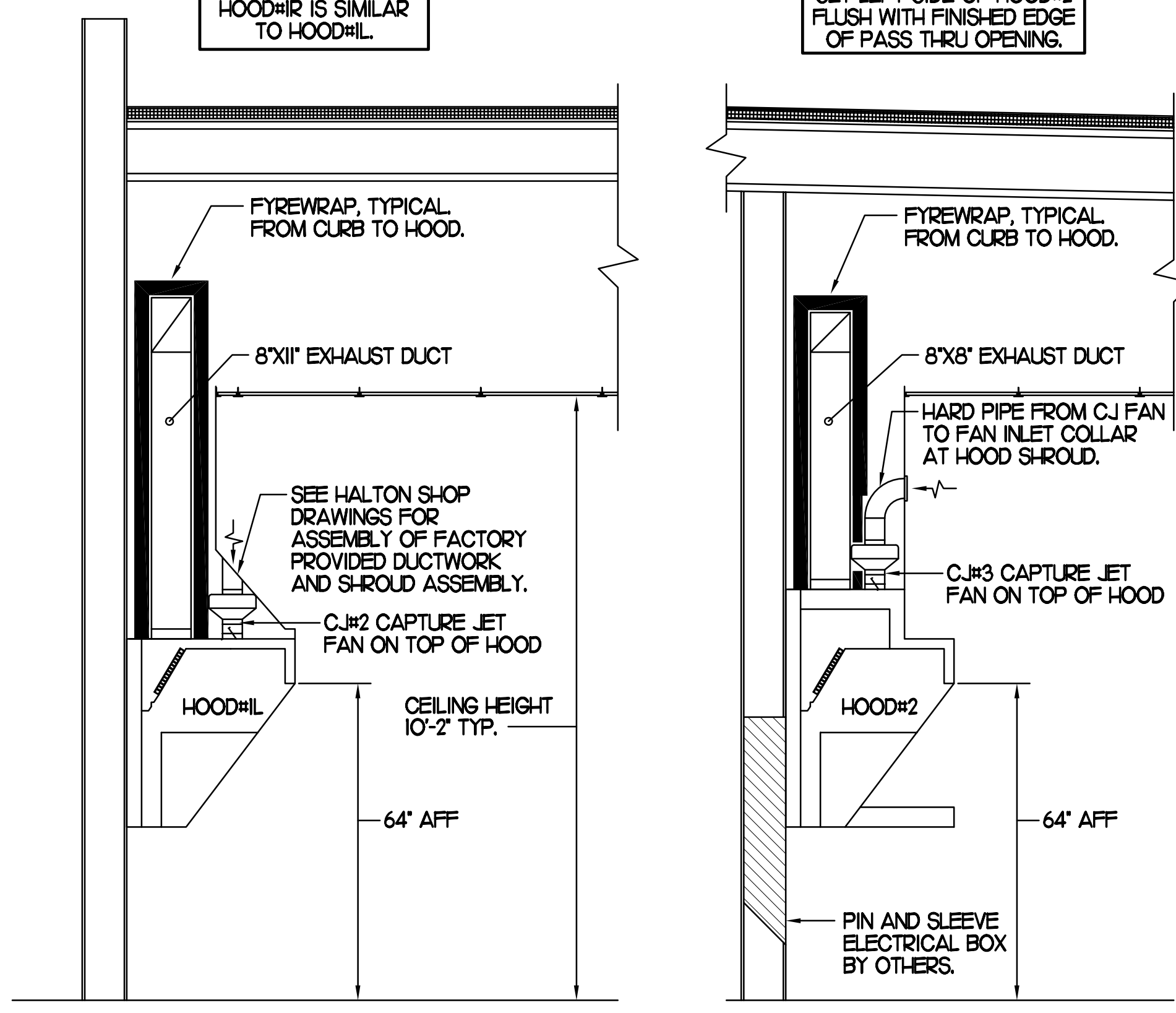
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CLEANOUT DOOR NOTE
 DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS. NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

SET RIGHT SIDE OF HOOD#3 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

SET LEFT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

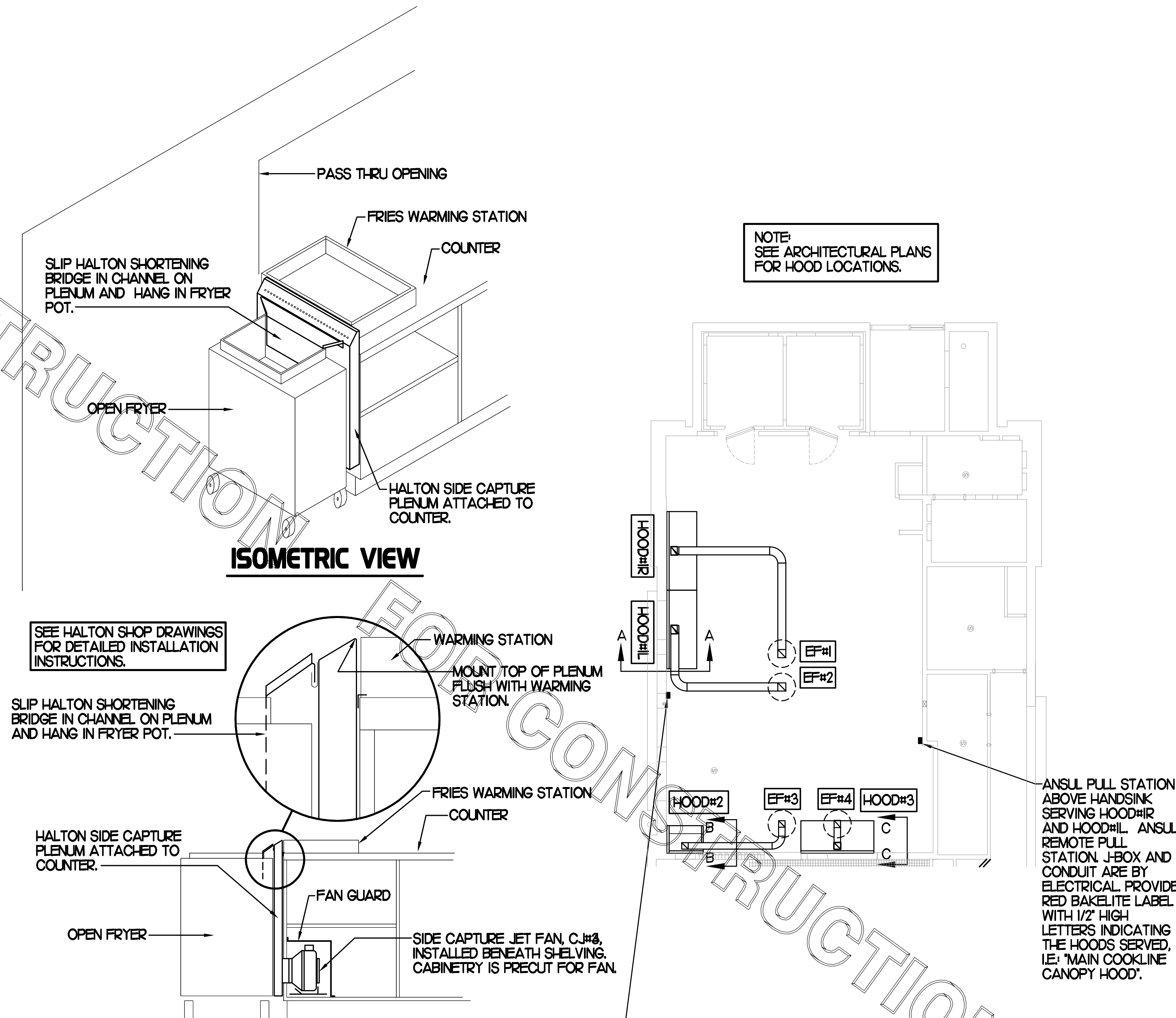
HOOD#1R IS SIMILAR TO HOOD#1L.



SECTION "A-A"

SECTION "B-B"

SECTION "C-C"



ISOMETRIC VIEW

FRONT VIEW

NOTE: SEE ARCHITECTURAL PLANS FOR HOOD LOCATIONS.

SEE HALTON SHOP DRAWINGS FOR DETAILED INSTALLATION INSTRUCTIONS.

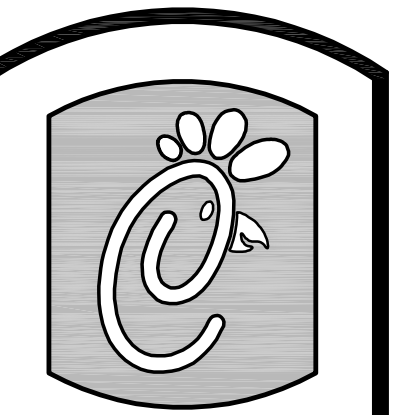
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3 HOOD ELEVATIONS
 NONE

2 HALTON SIDE CAPTURE JET PLENUM
 NOT TO SCALE

1 HOOD LAYOUT
 1/8"=1'-0"



Chick-fil-A
 5200 Buffington Rd.
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Revisions:
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Seal

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 Email: mail@kurzynske.com

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Mantua Square
 Mantua, NJ

SHEET TITLE
 HOOD DETAILS
 & SCHEDULES

VERSION: 5
 ISSUE DATE: 1-2011

Job No. : CE1103
 Store : #2722
 Date : 2/21/11
 Drawn By : BF
 Checked By : MTK

Sheet
M-2.1

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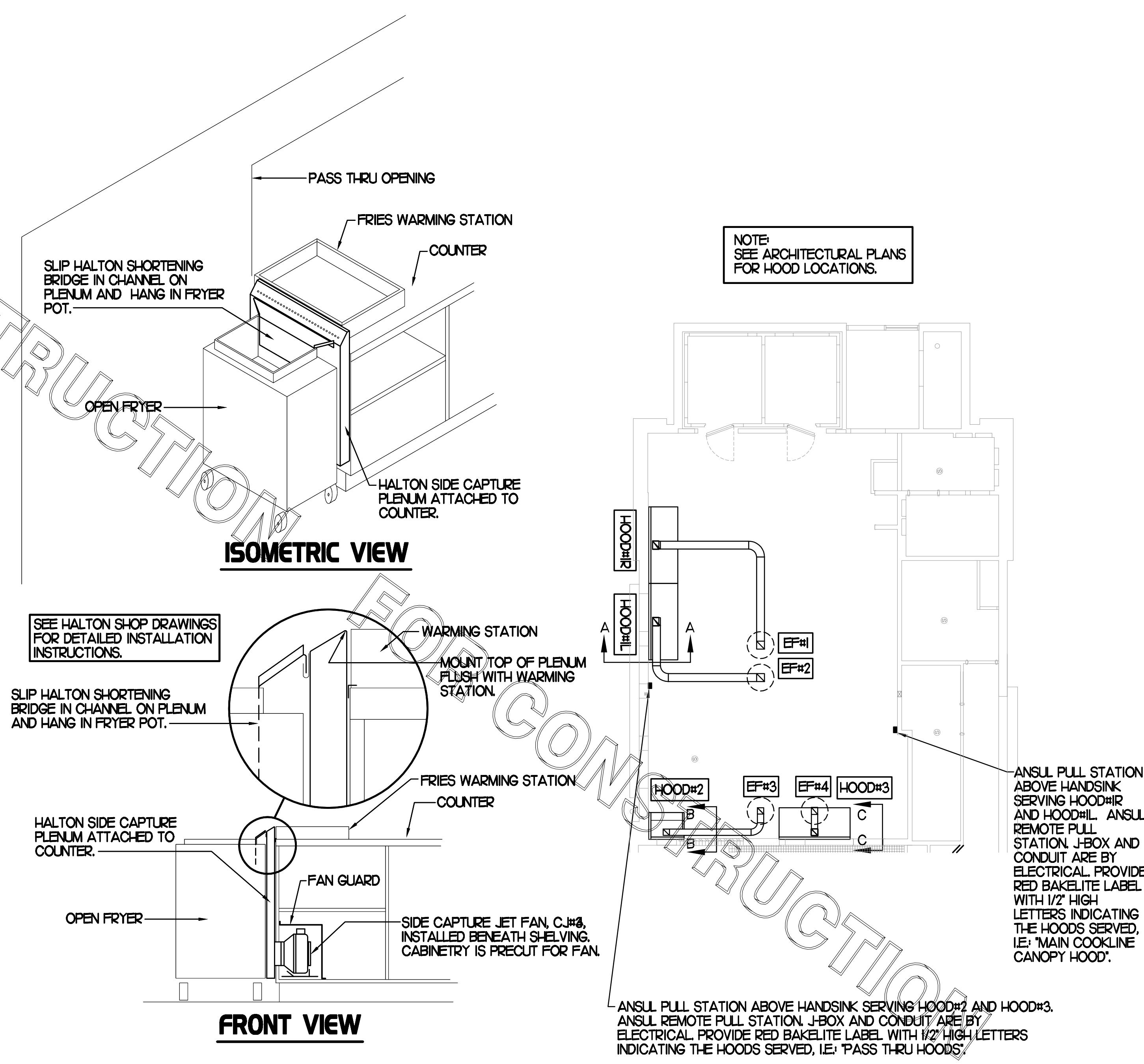
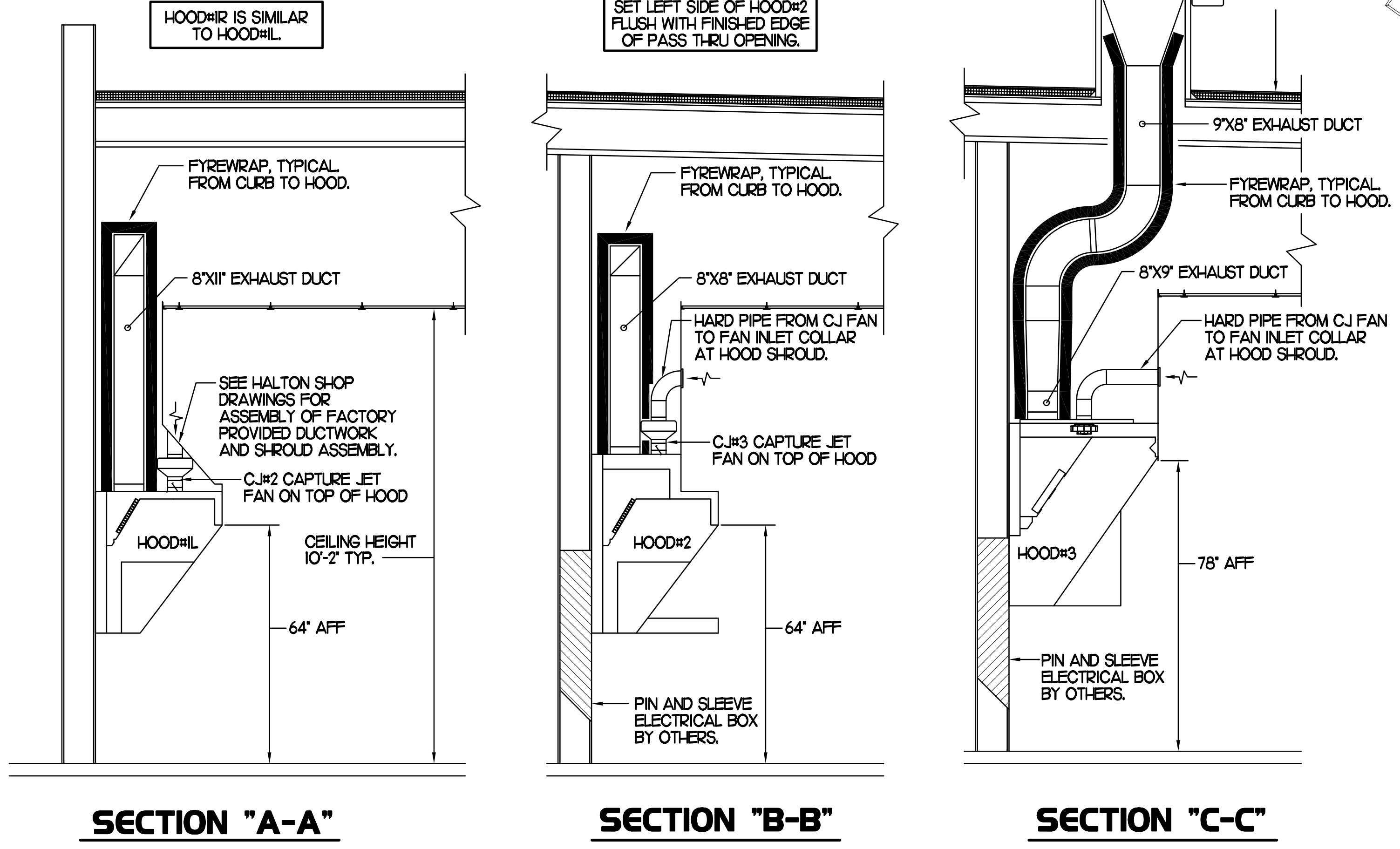
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CLEANOUT DOOR NOTE
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SET RIGHT SIDE OF HOOD#3 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

SET LEFT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

HOOD#1R IS SIMILAR TO HOOD#1L.



NOTE: SEE ARCHITECTURAL PLANS FOR HOOD LOCATIONS.

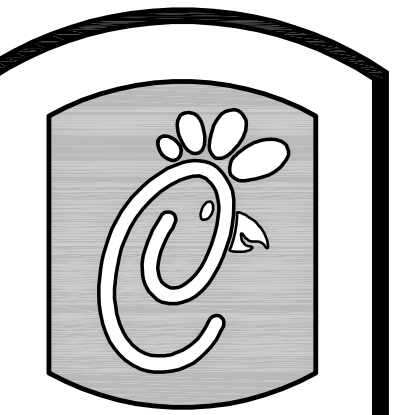
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 Email: mail@kurzynske.com

STORE
 Mantua FSU
 Narrow 104

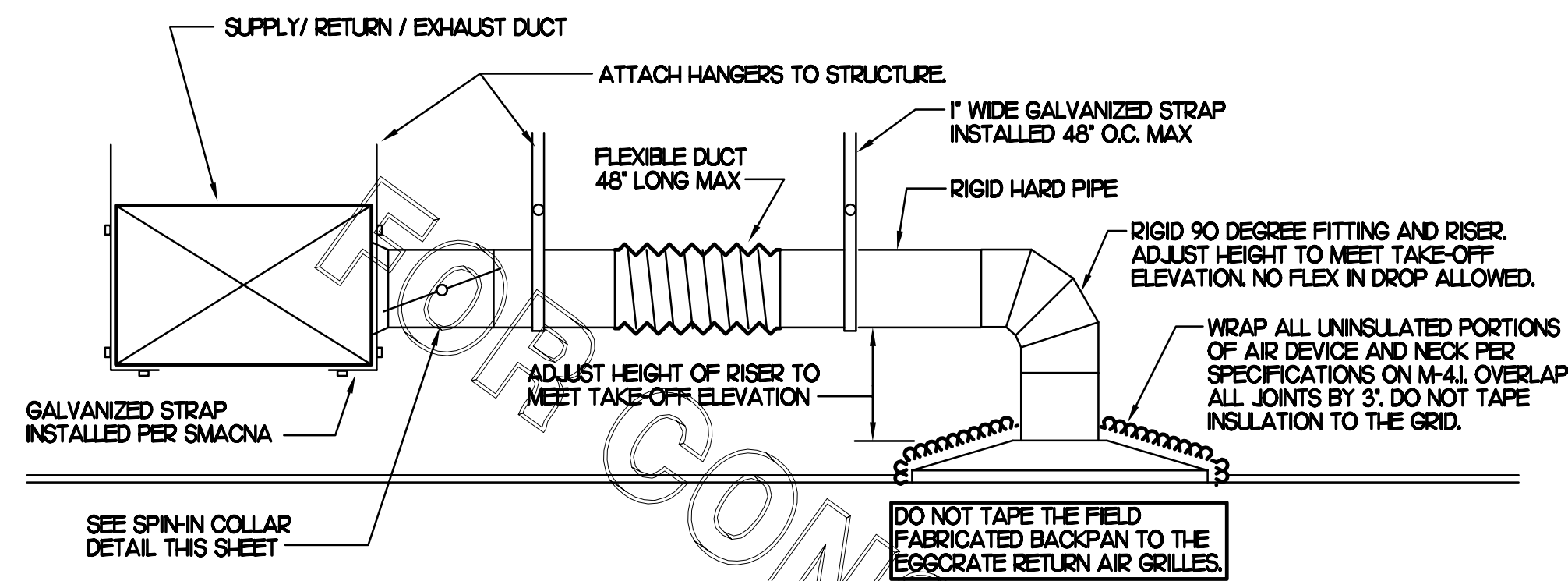
Mantua Square
 Mantua, NJ

SHEET TITLE
 HOOD DETAILS
 & SCHEDULES

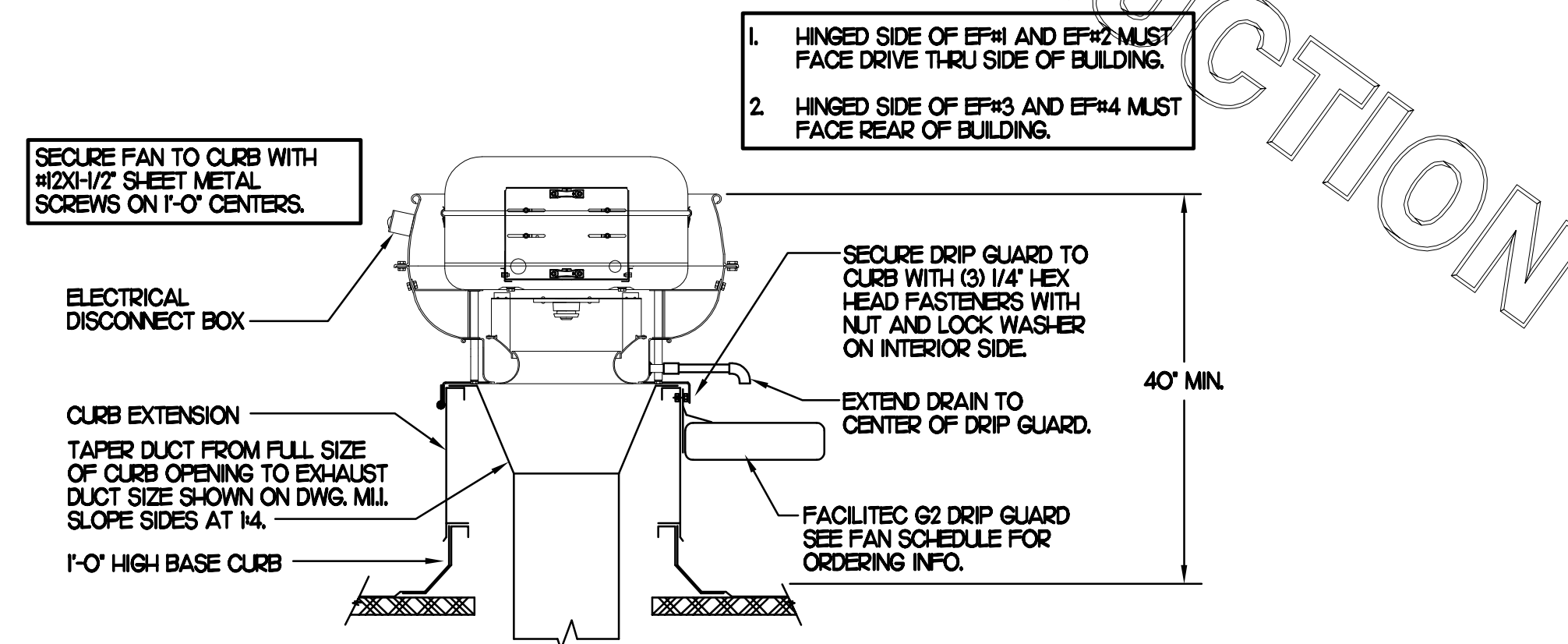
VERSION: 5
 ISSUE DATE: 1-2011

Job No. : CE1103
 Store : #2722
 Date : 2/21/11
 Drawn By : BF
 Checked By : MTK

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M-2.1

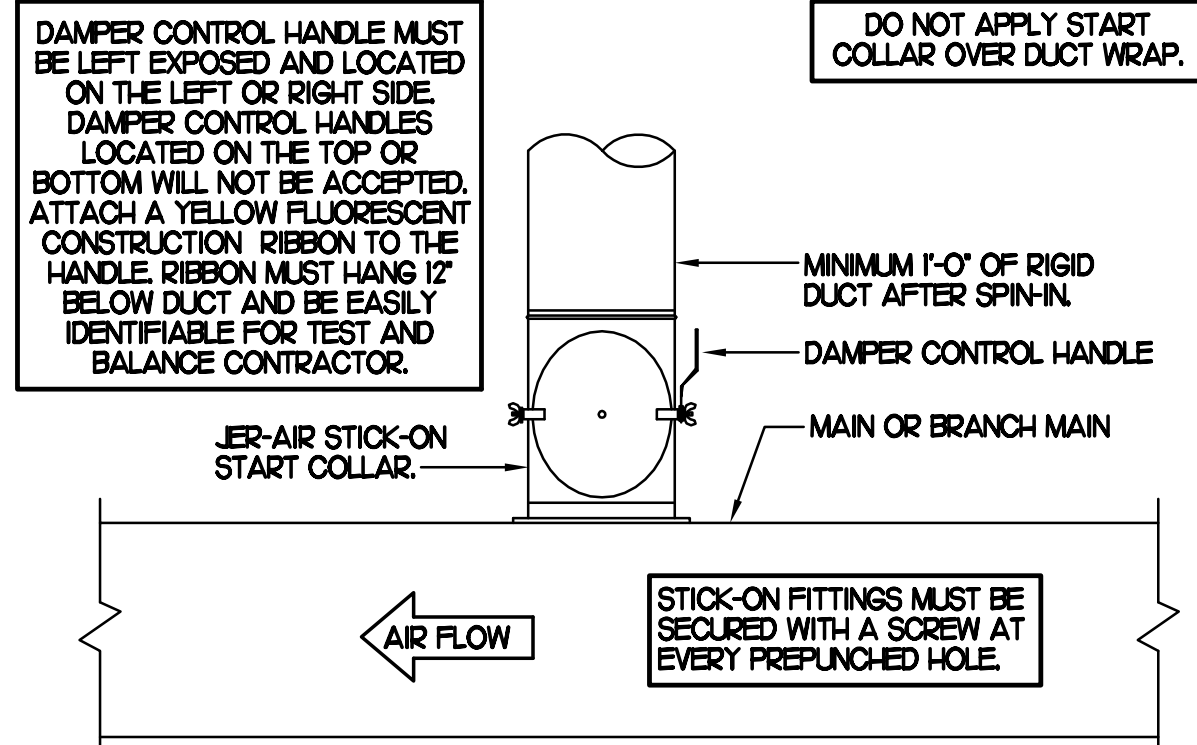


1 SAG/RAG/GRILLE TAKE-OFF
NO SCALE

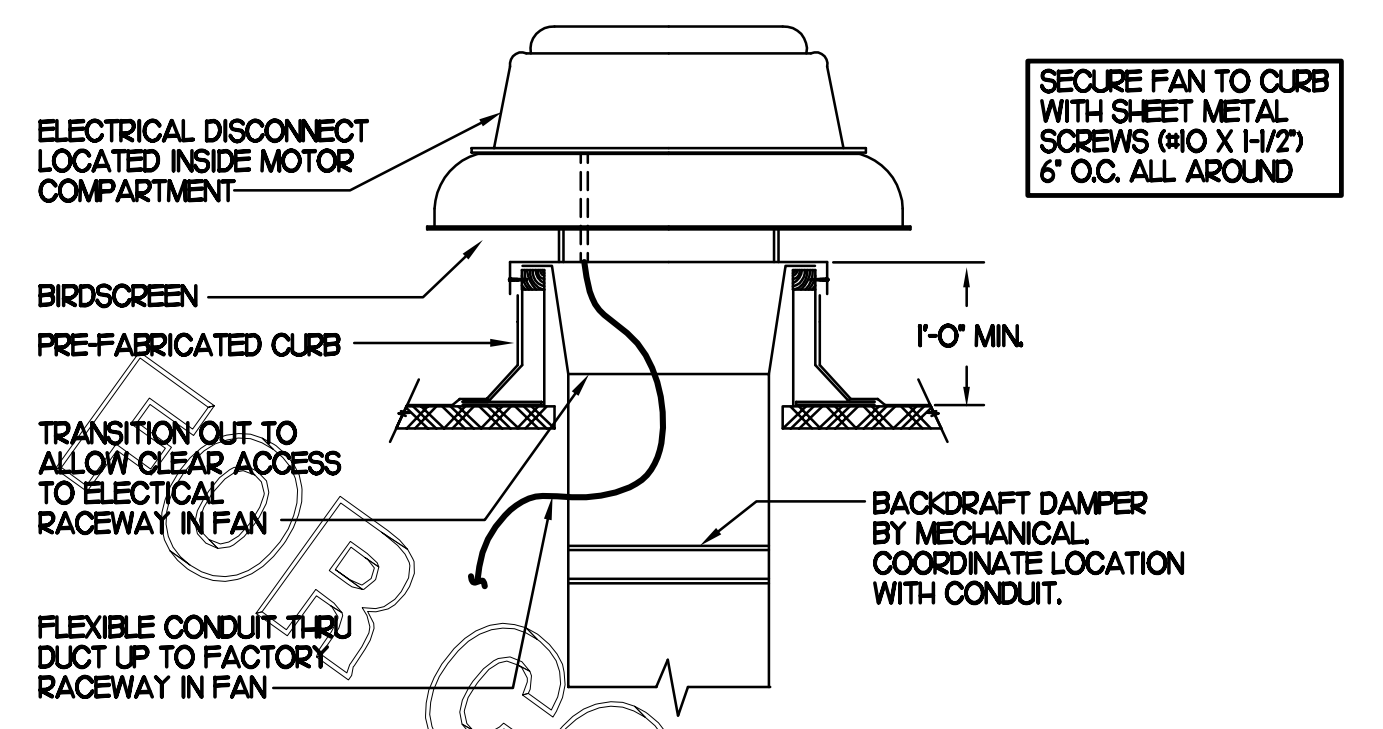


3 KITCHEN HOOD EXHAUST FAN
NO SCALE

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE JER-AIR START COLLARS. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE JER-AIR START COLLARS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. JER-AIR START COLLARS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.



2 START COLLAR
NO SCALE



4 RESTROOM EXHAUST FAN
NO SCALE

GAS FIRED ROOFTOP UNIT SCHEDULE

| MARK | COOLING CAPACITY (MBH) | | HEATING CAPACITY (MBH) | | FAN SECTION (CFM) | | | MODEL R-40A | MANUFACTURER | REMARKS |
|------|------------------------|-------|------------------------|--------|-------------------|-------|--------|-------------|--------------|------------------------------------|
| | TOTAL | SENS | INPUT | OUTPUT | SUPPLY | O.A. | HP ESP | | | |
| AC#1 | 294.5 | 226.8 | 480.0 | 384.0 | 8,000 | 2,350 | 7.5 | 1.0 | LGH-800G4 | LENNOX 13,5,6,8,9,10,11,12,13,14 |
| AC#2 | 63.3 | 47.5 | 150.0 | 120.0 | 1,790 | 500 | 1 | .70 | LGH-060H4 | LENNOX 23,4,6,7,8,9,10,11,12,13 |
| AC#3 | 149.0 | 111.8 | 240.0 | 192.0 | 4,900 | 1,465 | 5 | .70 | LGH-50G4 | LENNOX 12,4,6,7,8,9,10,11,12,13,14 |
| AC#4 | 63.3 | 47.5 | 150.0 | 120.0 | 1,750 | 300 | 1 | .70 | LGH-060H4 | LENNOX 23,4,7,8,9,10,11,12,13 |

NOTES

- COOLING CAPACITIES ARE GROSS, BASED ON INDOOR: 75°FDB/62°FWB, OUTDOOR: 95°FDB/75.2°FWB.
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5121) FOR PRICING, ORDERING AND AVAILABILITY.

REMARKS

1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
2. PROVIDE 14\"/>

EXHAUST FAN SCHEDULE

| MARK | CFM | ESP | RPM | TIP SPEED (FPM) | HP | AREA SERVED | MODEL | MANUFACTURER | REMARKS |
|------|-------|------|-------|-----------------|-----|-------------|-------------|--------------|--------------|
| EF#1 | 1,085 | .75 | 1,071 | 4,626 | 1/2 | HOOD#L | 165V-5B | LOREN COOK | 123,4,5 |
| EF#2 | 1,085 | .75 | 1,071 | 4,626 | 1/2 | HOOD#R | 165V-5B | LOREN COOK | 123,4,5 |
| EF#3 | 701 | .75 | 1,238 | 4,861 | 1/4 | HOOD#2 | 150V-2B | LOREN COOK | 123,4,5 |
| EF#4 | 804 | .75 | 1,295 | 5,085 | 1/4 | HOOD#3 | 150V-2B | LOREN COOK | 123,4,5 |
| EF#5 | 300 | .375 | 1,294 | 3,091 | 1/8 | RESTROOMS | ACED-90C5DH | LOREN COOK | 2,6,7,8,9,10 |

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\"/>

AIR DOOR SCHEDULE

| MARK | CFM | VELOCITY | HEATING CAP | HP | AREA SERVED | MODEL | MANUFACTURER | REMARKS |
|------|-------|----------|-------------|-----|-------------|---------|--------------|---------|
| AD#1 | 750 | 3,050 | 72 KW | 1/5 | DRIVE THRU | MP1-30E | POWERED-AIRE | 1,2,4 |
| AD#2 | 3,384 | 4,000 | NA | 3/4 | REAR DOOR | BCT1-42 | POWERED-AIRE | 3,4 |

REMARKS

- 1) FACTORY PROVIDED, WIRED, AND UNIT MOUNTED THERMOSTAT LOCATED ON RIGHT SIDE.
- 2) FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ON BOTTOM.
- 3) FACTORY PROVIDED SECO-LARM SM-258C MAGNETIC CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- 4) CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

ELECTRIC WALL HEATER SCHEDULE

| MARK | KW | FRAME SIZE WIDTH HEIGHT | CFM | MOUNTING TYPE | MODEL | MANUFACTURER |
|------|----|-------------------------|-----|---------------|-------|--------------|
| WH#1 | 15 | 16\"/> | | | | |

REMARKS

- 1) AUTOMATIC FAN DELAY SWITCH AND INTEGRAL DISCONNECT.
- 2) INTEGRAL TAMPERPROOF THERMOSTAT SET AT 65 DEG. F.
- 3) CAPACITY SHOWN IS FOR 208V SERVICE.
- 4) CONFIRM ELECTRICAL CHARACTERISTICS PRIOR TO ORDERING EQUIPMENT.
- 5) POWDER COATED 18 GA. STEEL GRILLE WITH ALUMINUM FRAME.
- 6) AUTOMATIC RESET THERMAL LIMIT SWITCH.
- 7) TUBULAR STEEL ELEMENT WITH STEEL FINS.

ELECTRIC DUCT HEATER SCHEDULE

| MARK | KW | DUCT SIZE (IN) WIDTH HEIGHT | CFM | TEMP RISE | TYPE | MODEL | MANUFACTURER |
|------|------|-----------------------------|-----|-----------|------|-------|--------------|
| ED#1 | 25.0 | 26\"/> | | | | | |

REMARKS

- 1) PROVIDE FACTORY AIR FLOW SWITCH, NON ADJUSTABLE, .05\"/>

AIR DEVICE SCHEDULE

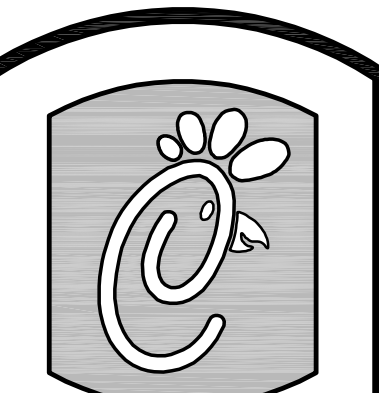
| MARK | DESCRIPTION | LOCATION | NECK SIZE | FACE SIZE | FRAME TYPE | REMARKS |
|------|---|---------------------------------|-----------|-----------|------------|-----------|
| A | TITUS MODEL PSS-AA ALUMINUM SUPPLY AIR DIFFUSER WITH AIR PATTERN CONTROLLER. | DINING AREA KITCHEN | SEE PLAN | 24X24 | LAY-IN | 1,8 |
| C | TITUS MODEL MCO STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS. | ENTRY 'A' | 14X14 | 19X9 | SURFACE | 1,3,5,7 |
| D | TITUS MODEL 272FS DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO SHORT SIDE. | MECH ROOM/ELEC ROOM | 8X6 | 10X8 | SURFACE | 1 |
| F | DONDO MODEL OPDF EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BACKPAN AND ROUND NECK. | DINING/OFFICE KITCHEN PLAY AREA | SEE PLAN | 24X24 | LAY-IN | 1,7 |
| G | TITUS MODEL 56FL ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE. | MECH ROOM/ELEC ROOM | 8X6 | 10X8 | SURFACE | 1 |
| H | TITUS MODEL PSS-AA ALUMINUM SUPPLY AIR DIFFUSER WITH AIR PATTERN CONTROLLER. | OFFICE | 10 | 24X24 | LAY-IN | 1,6,8 |
| J | TITUS MODEL MCO STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS. | RESTROOMS | 10X10 | 15X6 | SURFACE | 1,2,3,5,7 |
| K | TITUS MODEL PAR STEEL PERFORATED FACE RETURN AIR GRILLE. | RESTROOMS ENTRY 'A' | 14X14 | 16X6 | SURFACE | 1,4,7 |
| L | TITUS MODEL 56FL ZERO DEGREE DEFLECTION ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE. | PLAYGROUND | 16X6 | 18X8 | SURFACE | 1 |

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 AG-55 NECK DAMPER.
3. SEE DRAWING MLI FOR THROW.
4. PROVIDE MODEL AG-75 NECK DAMPER ON GRILLES IN RESTROOMS.
5. FIELD FABRICATE 8\"/>



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

| Mark | Date | By |
|------|---------|----------|
| 2 | 7-22-11 | BUILDING |

Mark Date By

| Mark | Date | By |
|------|------|----|
| 1 | | |

Mark Date By

| Mark | Date | By |
|------|------|----|
| 1 | | |

Seal

Kurzynske & Associates
CONSULTING ENGINEERS
825 Third Avenue, South
Nashville, Tennessee 37210
Telephone: (615) 255-5203
Fax: (615) 255-5207
Email: mail@kurzynske.com

STORE
Mantua FSU
Narrow 104

Mantua Square
Mantua, NJ

SHEET TITLE
HVAC DETAILS
& SCHEDULES

VERSION: 5
ISSUE DATE: 1-2011

Job No. : CE1103

Store : #2722

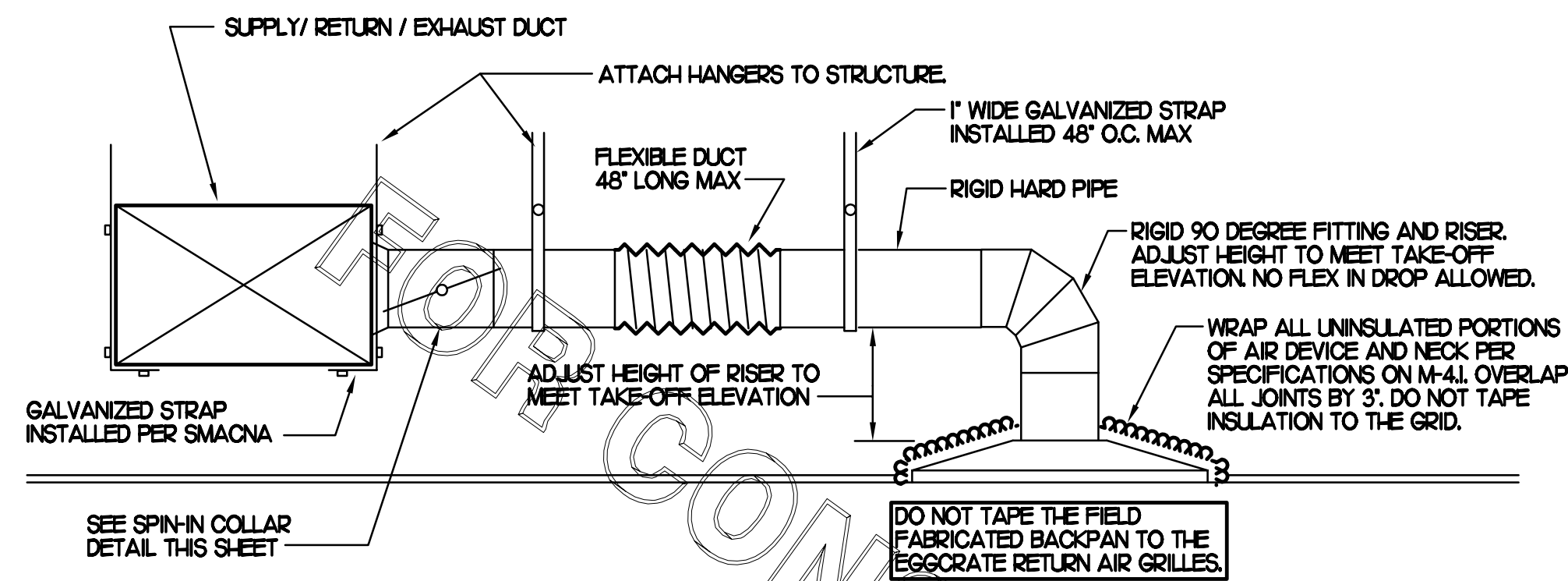
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Drawn By : BF

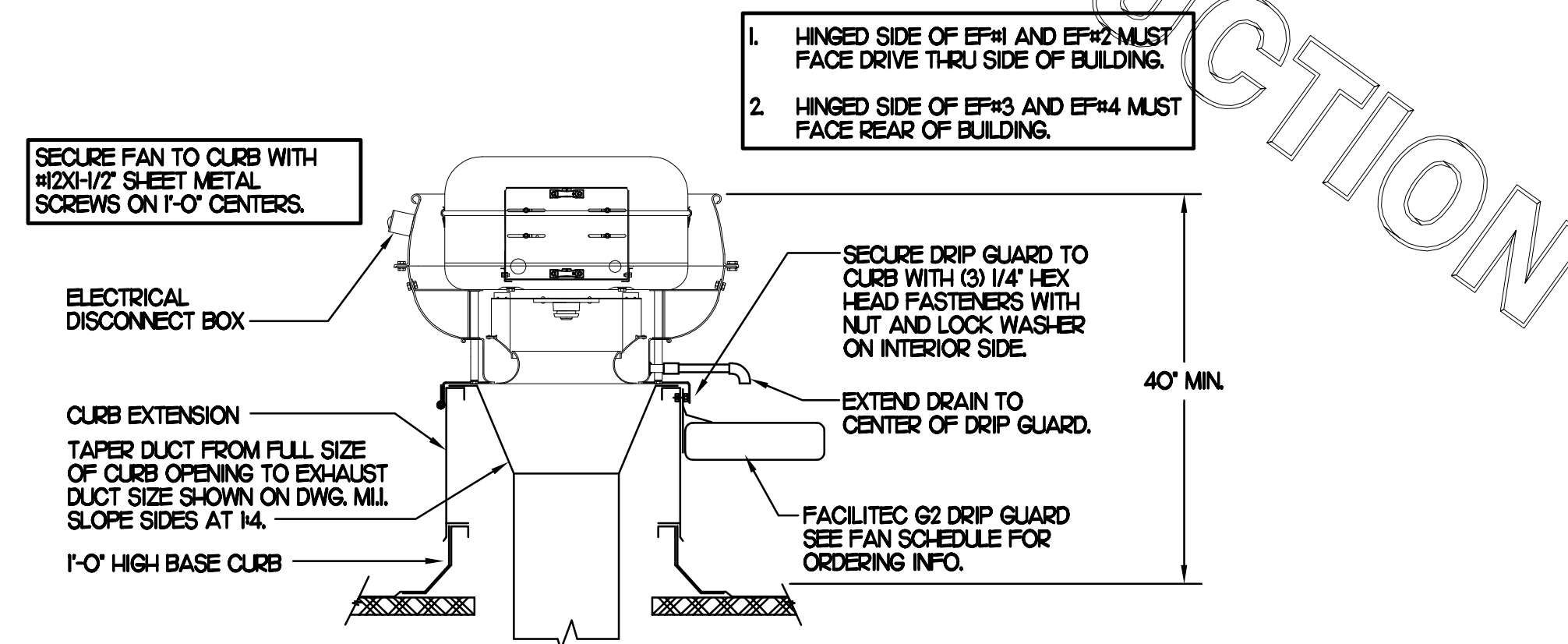
Checked By : MTK

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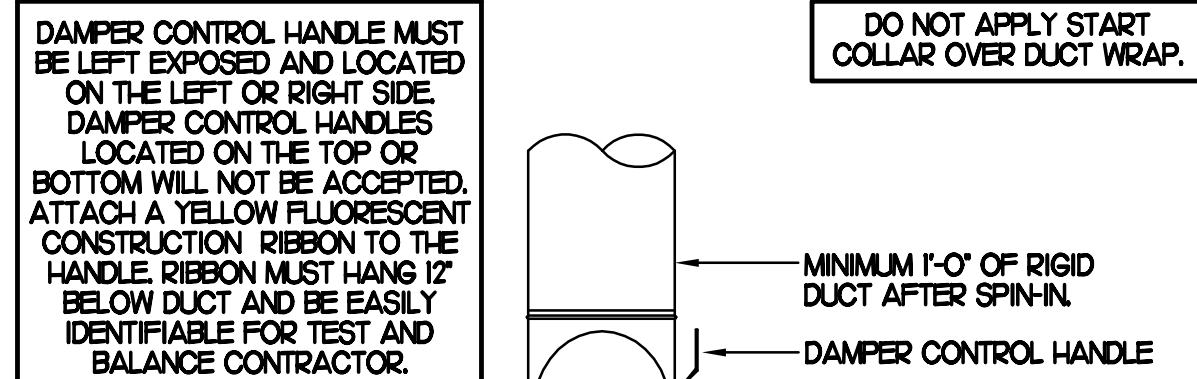


1 SAG/RAG/GRILLE TAKE-OFF
NO SCALE

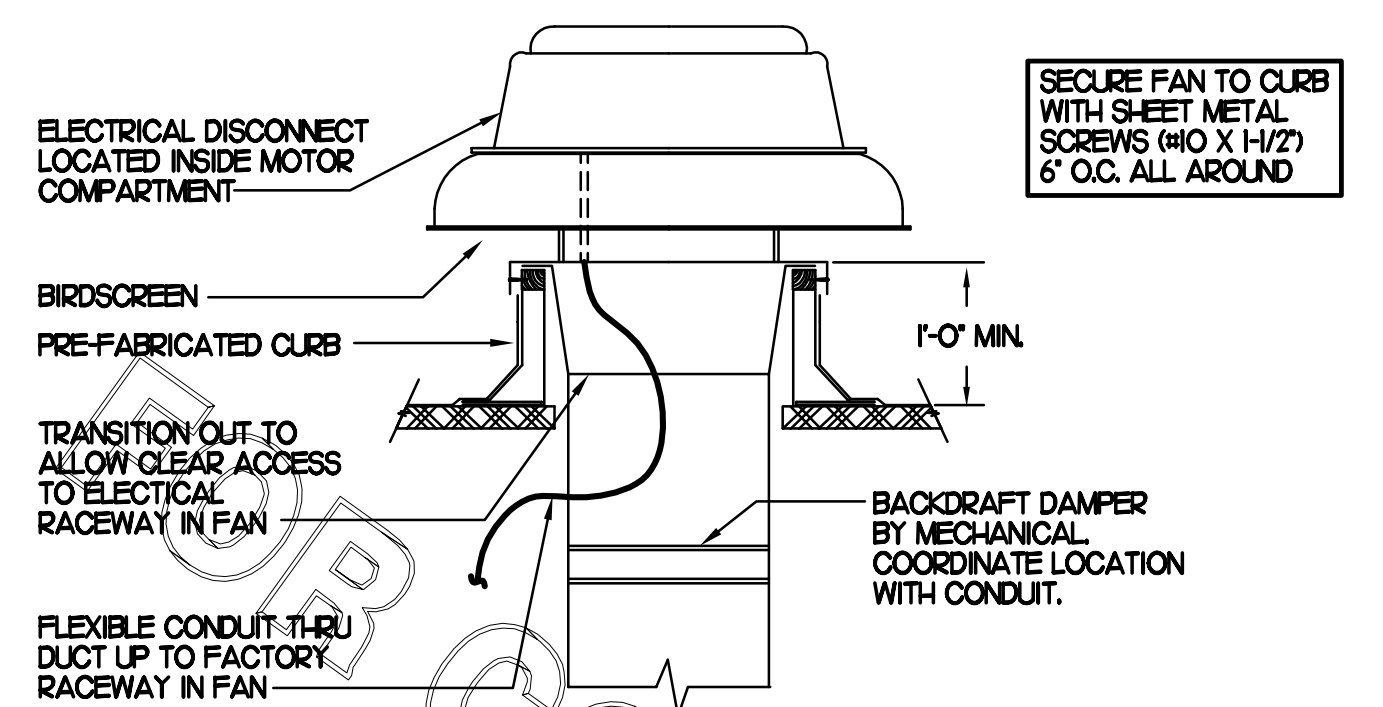


3 KITCHEN HOOD EXHAUST FAN
NO SCALE

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2 START COLLAR
NO SCALE



4 RESTROOM EXHAUST FAN
NO SCALE

GAS FIRED ROOFTOP UNIT SCHEDULE

| MARK | COOLING CAPACITY (MBH) | | HEATING CAPACITY (MBH) | | FAN SECTION (CFM) | | | MODEL R-40A | MANUFACTURER | REMARKS |
|------|------------------------|-------|------------------------|--------|-------------------|-------|--------|-------------|--------------|------------------------------------|
| | TOTAL | SENS | INPUT | OUTPUT | SUPPLY | O.A. | HP ESP | | | |
| AC#1 | 294.5 | 226.8 | 480.0 | 384.0 | 8,000 | 2,350 | 7.5 | 1.0 | LGH-800G4 | LENNOX 13,5,6,8,9,10,11,12,13,14 |
| AC#2 | 63.3 | 47.5 | 150.0 | 120.0 | 1,790 | 500 | 1 | .70 | LGH-060H4 | LENNOX 23,4,6,7,8,9,10,11,12,13 |
| AC#3 | 149.0 | 111.8 | 240.0 | 192.0 | 4,900 | 1,465 | 5 | .70 | LGH-50G4 | LENNOX 12,4,6,7,8,9,10,11,12,13,14 |
| AC#4 | 63.3 | 47.5 | 150.0 | 120.0 | 1,750 | 300 | 1 | .70 | LGH-060H4 | LENNOX 23,4,7,8,9,10,11,12,13 |

NOTES

- COOLING CAPACITIES ARE GROSS, BASED ON INDOOR: 75°FDB/62°FWB, OUTDOOR: 95°FDB/75.2°FWB.
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH LENNOX CORPORATION. CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6219 (OR BY FAX AT 972-497-5121) FOR PRICING, ORDERING AND AVAILABILITY.

REMARKS

1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
2. PROVIDE 14\"/>

EXHAUST FAN SCHEDULE

| MARK | CFM | ESP | RPM | TIP SPEED (FPM) | HP | AREA SERVED | MODEL | MANUFACTURER | REMARKS |
|------|-------|------|-------|-----------------|-----|-------------|-------------|--------------|--------------|
| EF#1 | 1,085 | .75 | 1,071 | 4,626 | 1/2 | HOOD#L | 165V-5B | LOREN COOK | 123,4,5 |
| EF#2 | 1,085 | .75 | 1,071 | 4,626 | 1/2 | HOOD#R | 165V-5B | LOREN COOK | 123,4,5 |
| EF#3 | 701 | .75 | 1,238 | 4,861 | 1/4 | HOOD#2 | 150V-2B | LOREN COOK | 123,4,5 |
| EF#4 | 804 | .75 | 1,295 | 5,085 | 1/4 | HOOD#3 | 150V-2B | LOREN COOK | 123,4,5 |
| EF#5 | 300 | .375 | 1,294 | 3,091 | 1/8 | RESTROOMS | ACED-90C5DH | LOREN COOK | 2,6,7,8,9,10 |

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 FACILITEC G2 DRIP GUARD.
5. PROVIDE FACTORY INSTALLED HELICAL SPRING AUTOMATIC BELT TENSIONER.
6. PROVIDE BIRDSCREEN.
7. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 4M-3L.
8. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
9. PROVIDE 12" HIGH CURB.
10. PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER.

AIR DOOR SCHEDULE

| MARK | CFM | VELOCITY | HEATING CAP | HP | AREA SERVED | MODEL | MANUFACTURER | REMARKS |
|------|-------|----------|-------------|-----|-------------|---------|--------------|---------|
| AD#1 | 750 | 3,050 | 72 KW | 1/5 | DRIVE THRU | MP1-30E | POWERED-AIRE | 1,2,4 |
| AD#2 | 3,384 | 4,000 | NA | 3/4 | REAR DOOR | BCT1-42 | POWERED-AIRE | 3,4 |

REMARKS

- 1) FACTORY PROVIDED, WIRED, AND UNIT MOUNTED THERMOSTAT LOCATED ON RIGHT SIDE.
- 2) FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ON BOTTOM.
- 3) FACTORY PROVIDED SECO-LARM SM-258C MAGNETIC CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- 4) CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARRROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRROW COMPANY WILL NOT BE ACCEPTED.

ELECTRIC WALL HEATER SCHEDULE

| MARK | KW | FRAME SIZE (W x H) | CFM | MOUNTING TYPE | MODEL | MANUFACTURER |
|------|----|--------------------|-----|---------------|--------------|--------------|
| WH#1 | 15 | 16" x 24" | 175 | SURFACE | HF3324TTD-RP | MARKEL |

REMARKS

- 1) AUTOMATIC FAN DELAY SWITCH AND INTEGRAL DISCONNECT.
- 2) INTEGRAL TAMPERPROOF THERMOSTAT SET AT 65 DEG. F.
- 3) CAPACITY SHOWN IS FOR 208V SERVICE.
- 4) CONFIRM ELECTRICAL CHARACTERISTICS PRIOR TO ORDERING EQUIPMENT.
- 5) POWDER COATED 18 GA. STEEL GRILLE WITH ALUMINUM FRAME.
- 6) AUTOMATIC RESET THERMAL LIMIT SWITCH.
- 7) TUBULAR STEEL ELEMENT WITH STEEL FINS.

ELECTRIC DUCT HEATER SCHEDULE

| MARK | KW | DUCT SIZE (W x H) | CFM | TEMP RISE | TYPE | MODEL | MANUFACTURER |
|------|------|-------------------|-------|-----------|---------|-------|--------------|
| ED#1 | 25.0 | 26" x 18" | 5,000 | 16 | SLIP-IN | 1F | MARKEL |

REMARKS

- 1) PROVIDE FACTORY AIR FLOW SWITCH, NON ADJUSTABLE, .05"WC MINIMUM.
- 2) PROVIDE FACTORY INTEGRAL DOOR DISCONNECT WITH INTERLOCK.
- 3) CONTROL AS A SINGLE STAGE HEATER, SEE DETAIL 2/MIL.
- 4) CONFIRM ELECTRICAL CHARACTERISTICS PRIOR TO ORDERING EQUIPMENT.
- 5) PROVIDE FACTORY INTEGRAL CONTROL TRANSFORMER.
- 6) PROVIDE FACTORY DEFINITE PURPOSE MAGNETIC CONTACTOR(S).
- 7) PROVIDE FACTORY OVERCURRENT AND THERMAL OVER-TEMPERATURE PROTECTION.
- 8) SEE FLOOR PLAN FOR HEATER AND CABINET ORIENTATION.

AIR DEVICE SCHEDULE

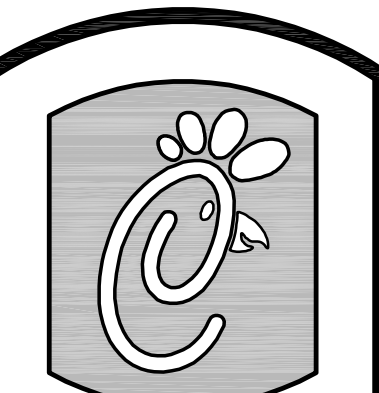
| MARK | DESCRIPTION | LOCATION | NECK SIZE | FACE SIZE | FRAME TYPE | REMARKS |
|------|---|---------------------------------|-----------|-----------|------------|-----------|
| A | TITUS MODEL PSS-AA ALUMINUM SUPPLY AIR DIFFUSER WITH AIR PATTERN CONTROLLER. | DINING AREA KITCHEN | SEE PLAN | 24X24 | LAY-IN | 1,8 |
| C | TITUS MODEL MCO STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS. | ENTRY 'A' | 14X14 | 19X9 | SURFACE | 1,3,5,7 |
| D | TITUS MODEL 272FS DOUBLE DEFLECTION ALUMINUM SIDEWALL SUPPLY GRILLE. FRONT BLADE PARALLEL TO SHORT SIDE. | MECH ROOM/ELEC ROOM | 8X6 | 10X8 | SURFACE | 1 |
| F | DONDO MODEL OPDF EGGRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BACKPAN AND ROUND NECK. | DINING/OFFICE KITCHEN PLAY AREA | SEE PLAN | 24X24 | LAY-IN | 1,7 |
| G | TITUS MODEL 56FL ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE. | MECH ROOM/ELEC ROOM | 8X6 | 10X8 | SURFACE | 1 |
| H | TITUS MODEL PSS-AA ALUMINUM SUPPLY AIR DIFFUSER WITH AIR PATTERN CONTROLLER. | OFFICE | 10 | 24X24 | LAY-IN | 1,6,8 |
| J | TITUS MODEL MCO STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS. | RESTROOMS | 10X10 | 15X6 | SURFACE | 1,2,3,5,7 |
| K | TITUS MODEL PAR STEEL PERFORATED FACE RETURN AIR GRILLE. | RESTROOMS ENTRY 'A' | 14X14 | 16X6 | SURFACE | 1,4,7 |
| L | TITUS MODEL 56FL ZERO DEGREE DEFLECTION ALUMINUM SIDEWALL RETURN GRILLE. FRONT BLADE PARALLEL TO LONG SIDE. | PLAYGROUND | 16X6 | 18X8 | SURFACE | 1 |

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 AG-55 NECK DAMPER.
3. SEE DRAWING MLI FOR THROW.
4. PROVIDE MODEL AG-75 NECK DAMPER ON GRILLES IN RESTROOMS.
5. FIELD FABRICATE 8" DEEP BACKPAN. SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. PROVIDE AG-75 NECK DAMPER, ADJUSTABLE, THRU DIFFUSER FACE.
7. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-3L.
8. FACTORY INSULATED R-6 BACKPAN.



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By
2 7-22-11 BUILDING COMMENTS

Mark Date By
1

Mark Date By
1

Kurzynske & Associates
CONSULTING ENGINEERS
825 Third Avenue, South
Nashville, Tennessee 37210
Telephone: (615) 255-5203
Fax: (615) 255-5207
Email: mail@kurzynske.com

STORE
Mantua FSU
Narrow 104

Mantua Square
Mantua, NJ

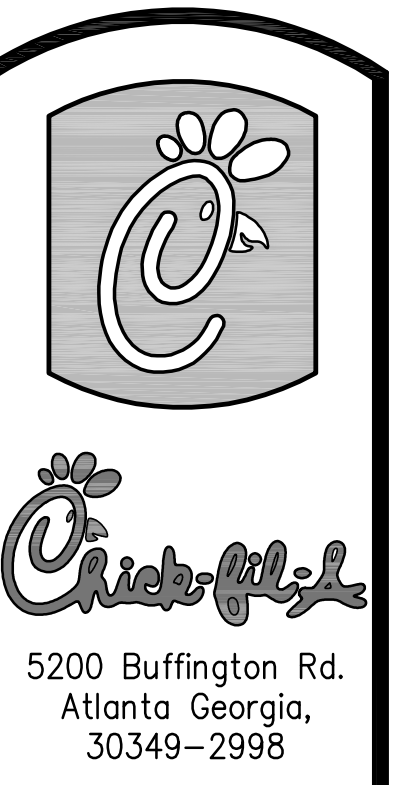
SHEET TITLE
HVAC DETAILS
& SCHEDULES

VERSION: 5
ISSUE DATE: 1-2011

Job No. : CE1103
Store : #2722
Date : 2/21/11
Drawn By : BF
Checked By : MTK

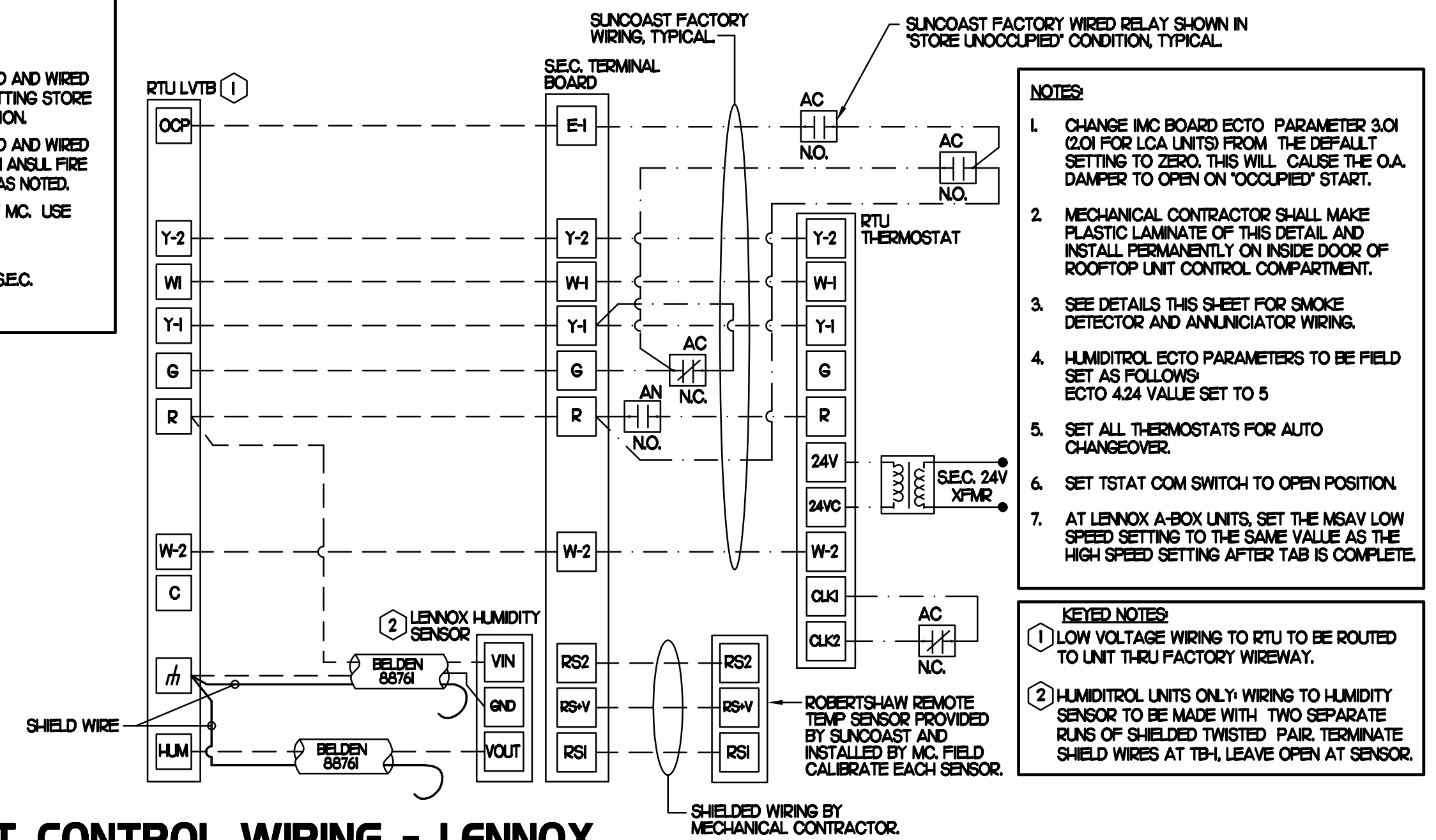
Sheet
M-3.I

PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #37987, TELEPHONE NUMBER 800-243-6624. FOR MOUNTING THE DETAIL, ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT BENNOR ENGINEERING AT 770-728-1422 FOR A REPRODUCIBLE COPY OF THE DETAIL.

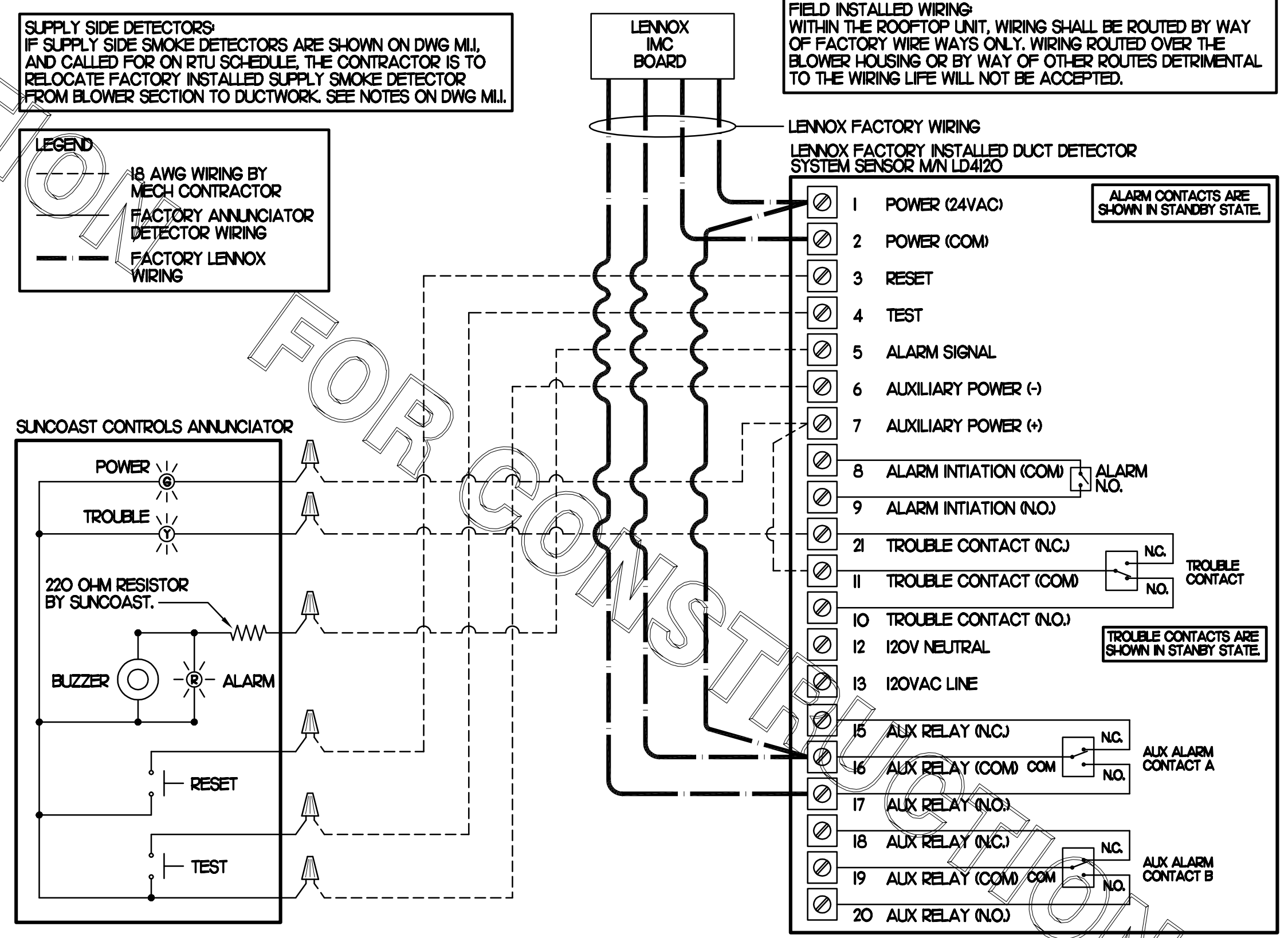
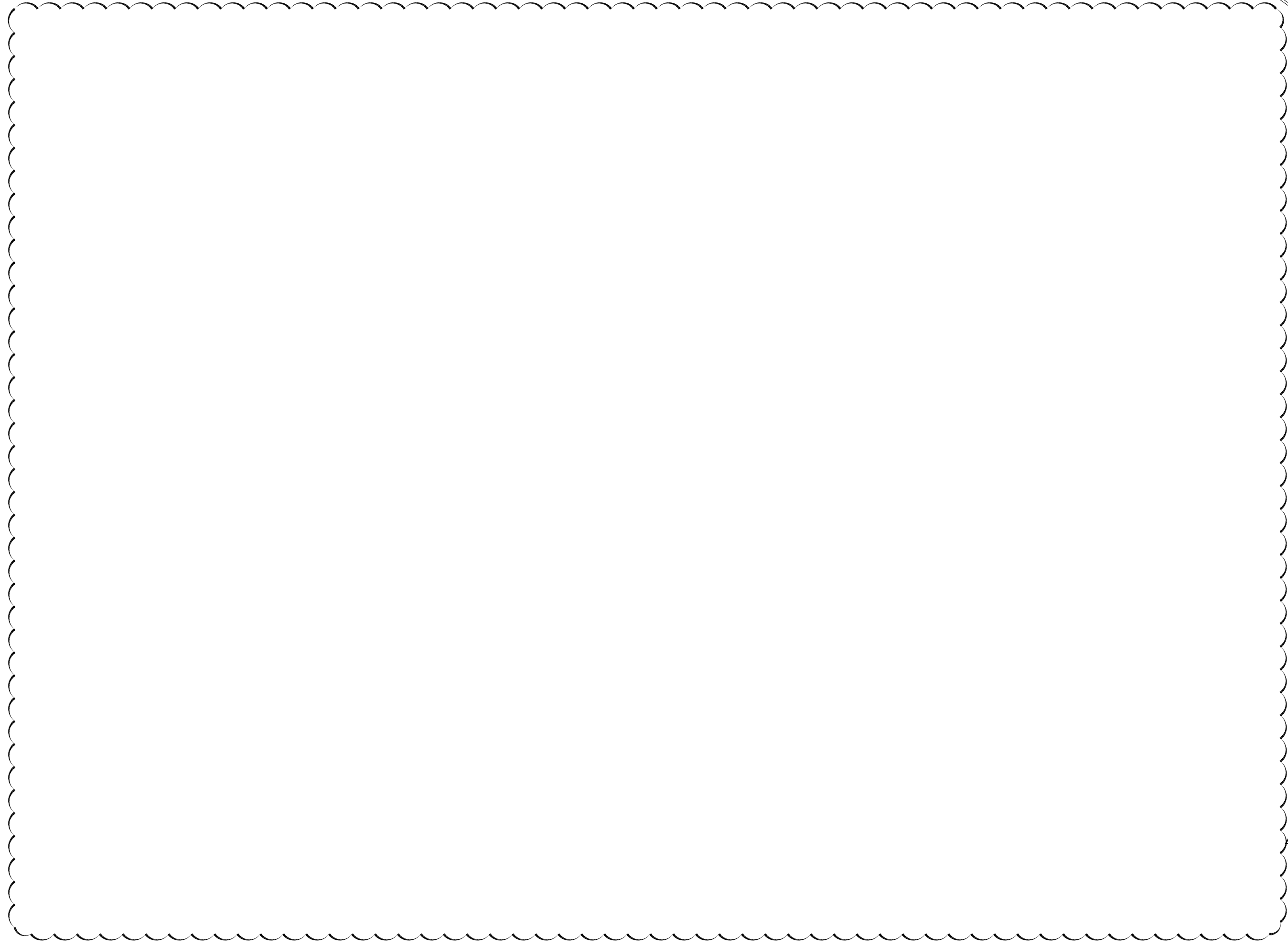


FOR CONSTRUCTION

- LEGEND**
- SEC. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL LOCATED IN KITCHEN)
 - ① KEY NOTE REFERENCE
 - MC MECHANICAL CONTRACTOR
 - ⓐ SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN OFA-500 PANEL, ENERGIZED BY PUTTING STORE SWITCH IN 'STORE OCCUPIED' POSITION
 - ⓐ SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN OFA-500 PANEL, ENERGIZED WHEN ANSLL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
 - 18 GA. MIN LOW VOLTAGE WIRING BY MC. USE SHIELDED WIRING FOR SENSORS.
 - - - LOW VOLTAGE WIRING BY SEC.
 - LINE VOLTAGE BY ELECTRICIAN OR SEC.



2 ROOFTOP UNIT CONTROL WIRING - LENNOX



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

Revisions:

| Mark | Date | By | COMMENTS |
|------|---------|----------|----------|
| ② | 7-22-11 | BUILDING | |
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| △ | | | |

Seal

Kurzynske & Associates
 CONSULTING ENGINEERS
 825 Third Avenue, South
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 Fax: (615) 255-5207
 Email: mail@kurzynske.com

STORE
 Mantua FSU
 Narrow 104

Mantua Square
 Mantua, NJ

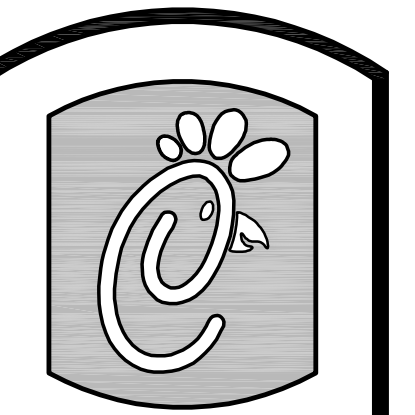
SHEET TITLE
 HVAC
 CONTROLS

VERSION: 5
 ISSUE DATE: 1-2011

Job No. : CF1103
 Store : #2722
 Date : 2/21/11
 Drawn By : BF
 Checked By : MTK

Sheet
M-4.1

PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINET. USE A SETON CHART FRAME STYLE #37987, TELEPHONE NUMBER 800-243-6624. FOR MOUNTING THE DETAIL, ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT BENNOR ENGINEERING AT 770-728-1422 FOR A REPRODUCIBLE COPY OF THE DETAIL.



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

FOR CONSTRUCTION

FOR CONSTRUCTION

LEGEND

SEC. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN

① KEY NOTE REFERENCE

MC MECHANICAL CONTRACTOR

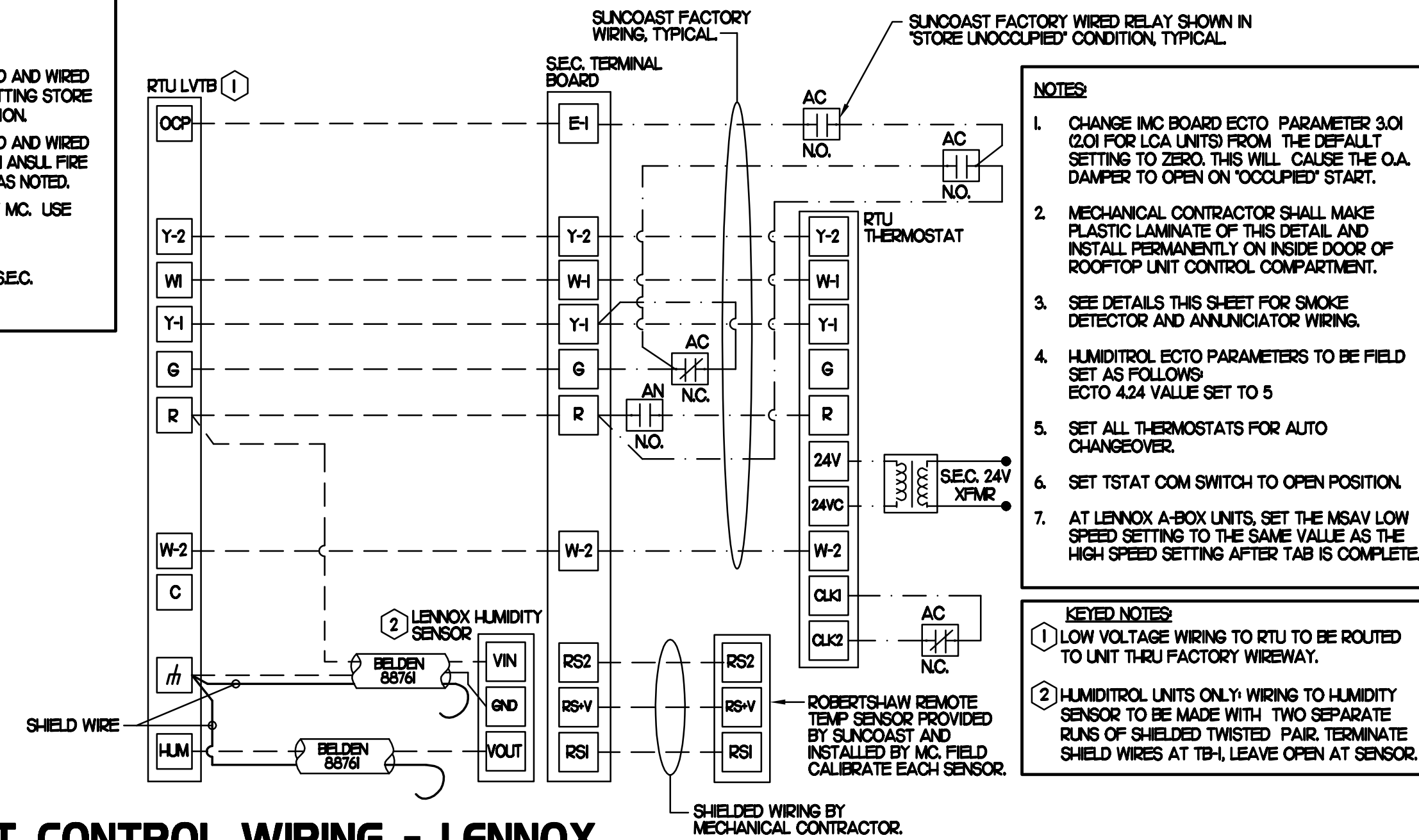
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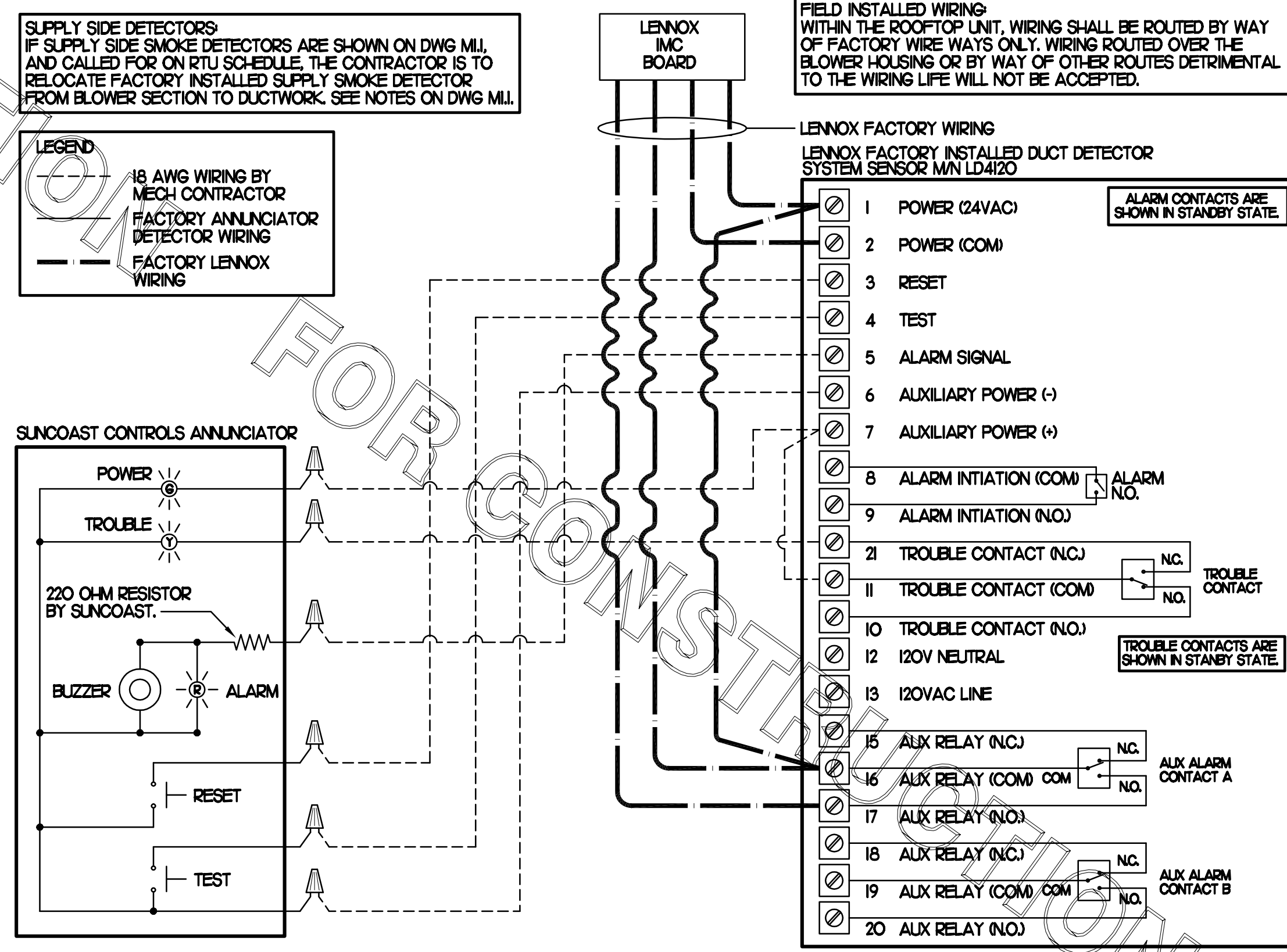
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2 ROOFTOP UNIT CONTROL WIRING - LENNOX



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

Revisions:

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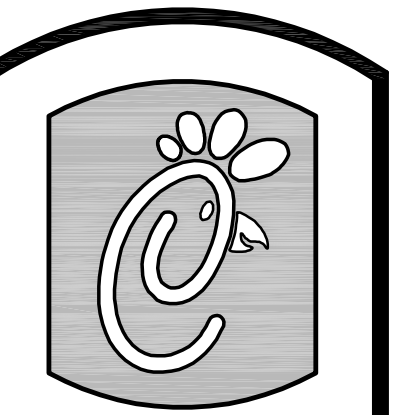
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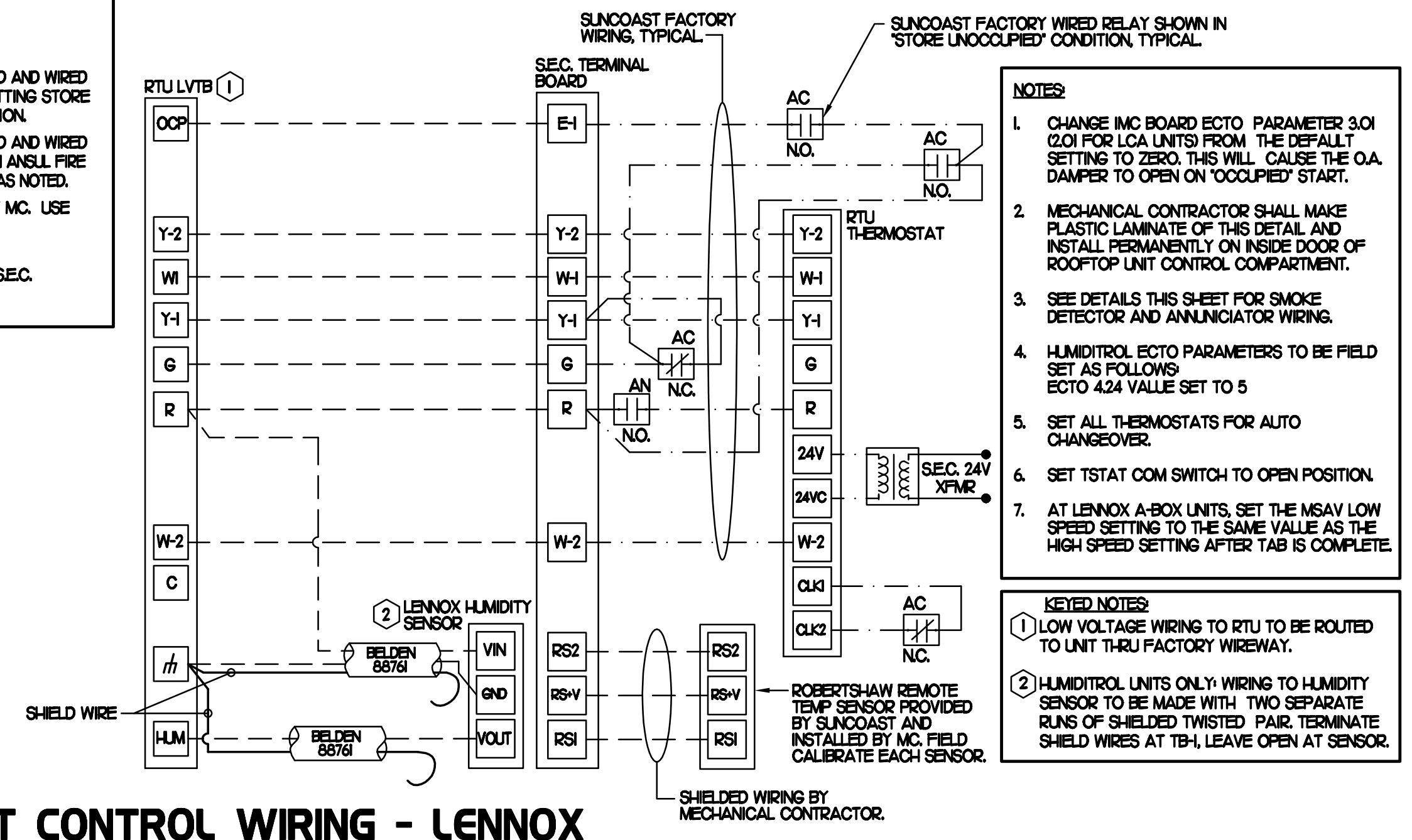
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FOR CONSTRUCTION

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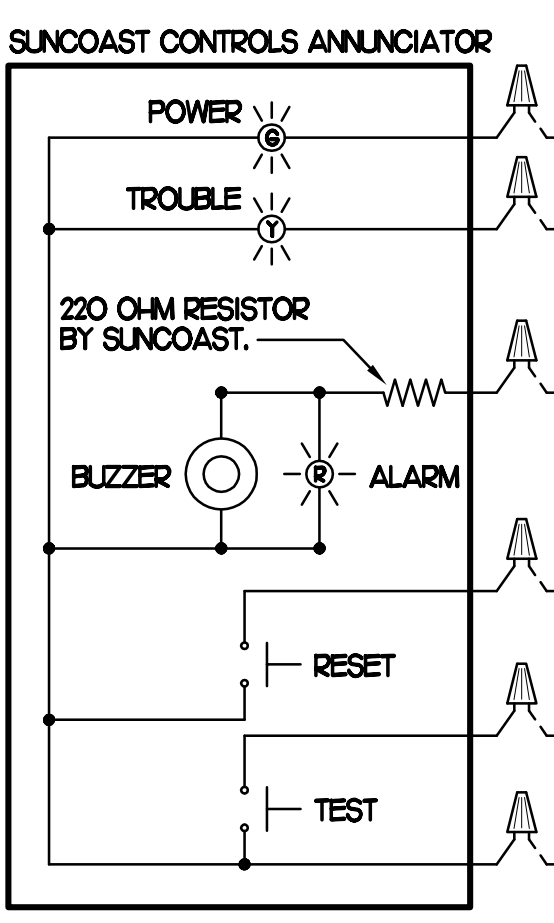
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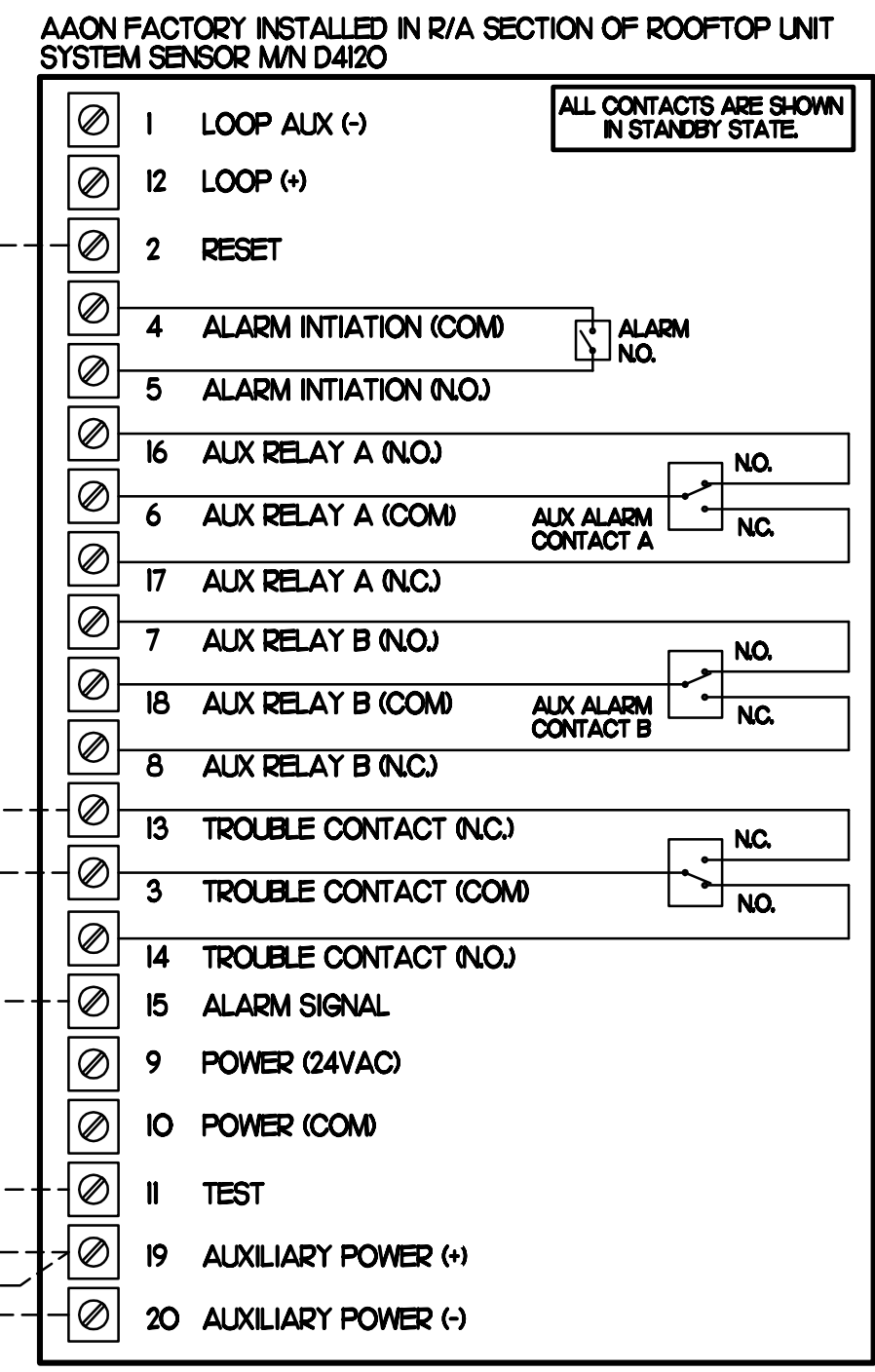
2 ROOFTOP UNIT CONTROL WIRING - LENNOX
NONE

- LEGEND**
- 18 AWG WIRING BY MECH CONTRACTOR
 - ANNUNCIATOR DETECTOR WIRING
 - FACTORY RTU WIRING

SEE AAON FFACORY WIRING DIAGRAM FOR FACTORY CONNECTIONS TO SMOKE DETECTOR.



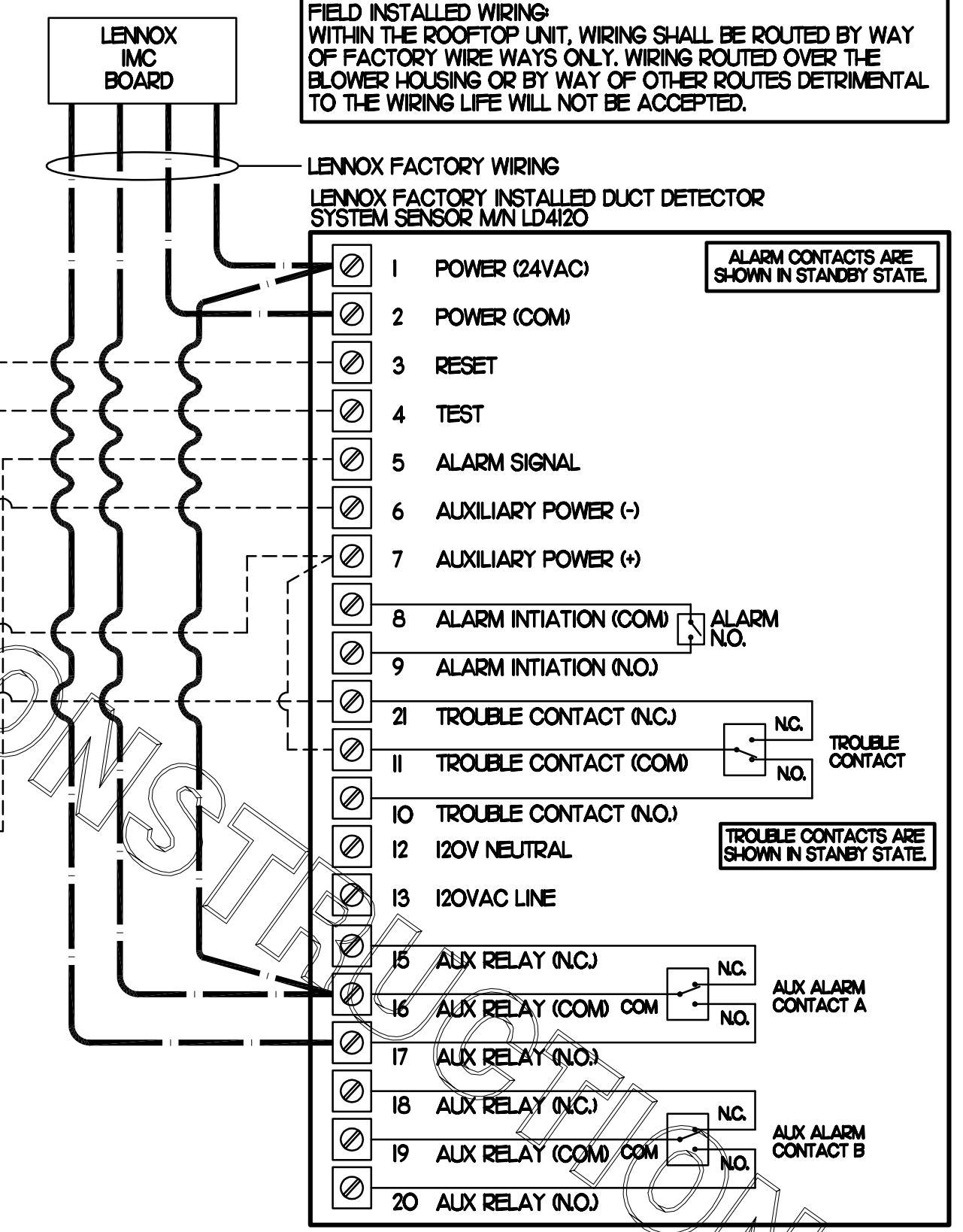
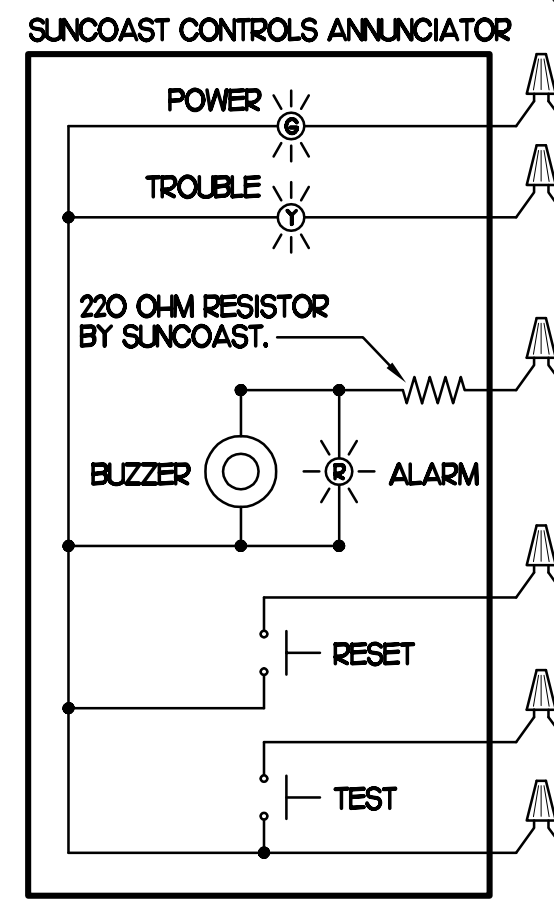
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1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - AAON
NO SCALE

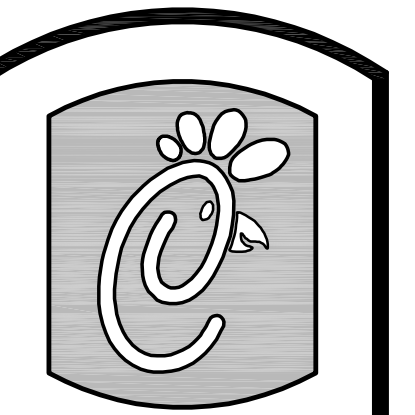
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- LEGEND**
- 18 AWG WIRING BY MECH CONTRACTOR
 - FACTORY ANNUNCIATOR DETECTOR WIRING
 - FACTORY LENNOX WIRING



3 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX
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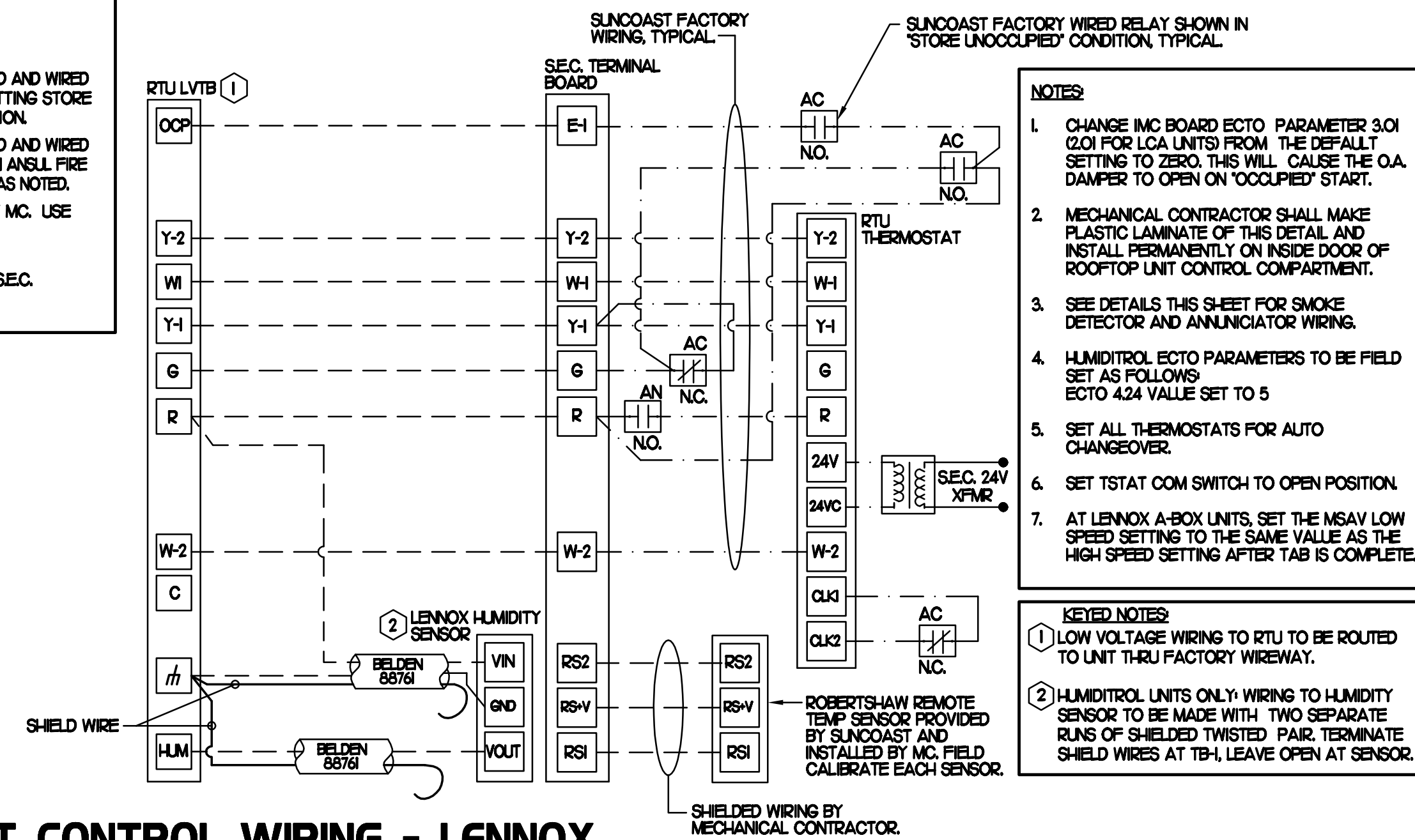


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- NOTES**
1. CHANGE IMC BOARD ECTO PARAMETER 3.01 (2.0) FOR LOA UNITS FROM THE DEFAULT SETTING TO ZERO. THIS WILL CAUSE THE O.A. DAMPER TO OPEN ON 'OCCUPIED' START.
 2. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
 3. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
 4. HUMIDITROL ECTO PARAMETERS TO BE FIELD SET AS FOLLOWS ECTO 4.24 VALLE SET TO 5
 5. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
 6. SET TSTAT COM SWITCH TO OPEN POSITION
 7. AT LENNOX A-BOX UNITS, SET THE MSV LOW SPEED SETTING TO THE SAME VALUE AS THE HIGH SPEED SETTING AFTER TAB IS COMPLETE.

- KEYED NOTES**
- ① LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
 - ② HUMIDITROL UNITS ONLY: WIRING TO HUMIDITY TEMP SENSOR TO BE MADE WITH TWO SEPARATE PINS OF SHIELDED TWISTED PAIR. TERMINATE SHIELD WIRES AT TB. LEAVE OPEN AT SENSOR.

2 ROOFTOP UNIT CONTROL WIRING - LENNOX

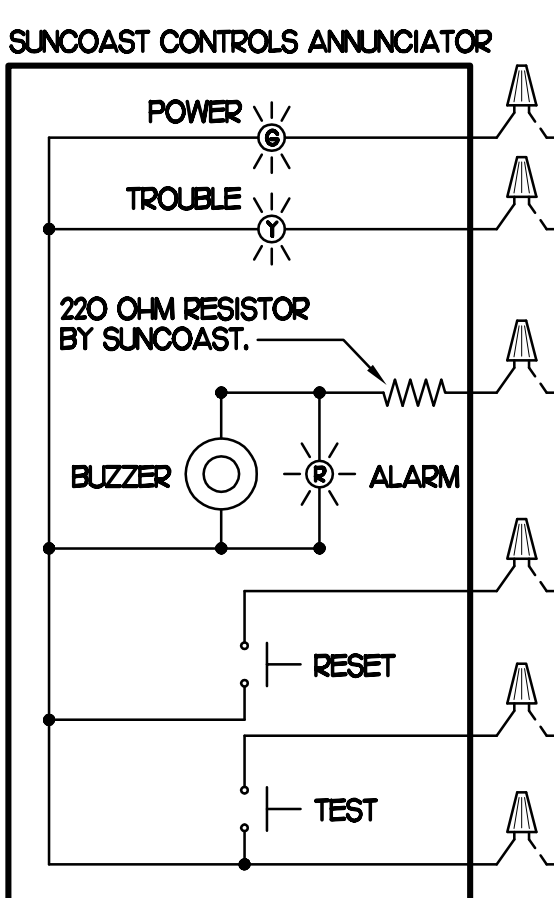
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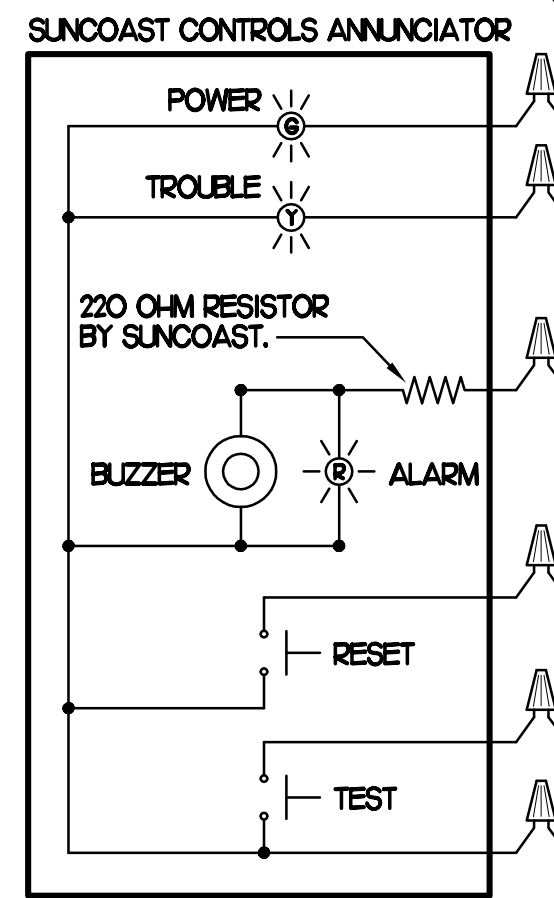
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 - FACTORY RTU WIRING

SEE AAON FFACORY WIRING DIAGRAM FOR FACTORY CONNECTIONS TO SMOKE DETECTOR.



- AAON FACTORY INSTALLED IN R/A SECTION OF ROOFTOP UNIT SYSTEM SENSOR M/N D4120
- | | | |
|----|-----------------------|---------------------|
| 1 | LOOP ALX (-) | ALX ALARM CONTACT A |
| 2 | LOOP (+) | |
| 3 | RESET | |
| 4 | ALARM INTIATION (COM) | ALARM NO. |
| 5 | ALARM INTIATION (NO.) | |
| 6 | ALX RELAY A (NO.) | ALX ALARM CONTACT A |
| 7 | ALX RELAY A (COM) | |
| 8 | ALX RELAY A (NC) | |
| 9 | ALX RELAY B (NO.) | ALX ALARM CONTACT B |
| 10 | ALX RELAY B (COM) | |
| 11 | ALX RELAY B (NC) | |
| 12 | TROUBLE CONTACT (NC) | |
| 13 | TROUBLE CONTACT (COM) | |
| 14 | TROUBLE CONTACT (NO.) | |
| 15 | ALARM SIGNAL | |
| 16 | POWER (24VAC) | |
| 17 | POWER (COM) | |
| 18 | TEST | |
| 19 | AUXILIARY POWER (+) | |
| 20 | AUXILIARY POWER (-) | |

- LEGEND**
- 18 AWG WIRING BY MECH CONTRACTOR
 - FACTORY ANNUNCIATOR DETECTOR WIRING
 - FACTORY LENNOX WIRING



- LENNOX IMC BOARD
- | | | |
|----|-----------------------|--|
| 1 | POWER (24VAC) | ALARM CONTACTS ARE SHOWN IN STANDBY STATE |
| 2 | POWER (COM) | |
| 3 | RESET | |
| 4 | TEST | |
| 5 | ALARM SIGNAL | |
| 6 | AUXILIARY POWER (+) | |
| 7 | AUXILIARY POWER (-) | |
| 8 | ALARM INTIATION (COM) | ALARM NO. |
| 9 | ALARM INTIATION (NO.) | |
| 10 | TROUBLE CONTACT (NC) | TROUBLE CONTACT |
| 11 | TROUBLE CONTACT (COM) | |
| 12 | TROUBLE CONTACT (NO.) | |
| 13 | 120V NEUTRAL | TROUBLE CONTACTS ARE SHOWN IN STANBY STATE |
| 14 | 120VAC LINE | |
| 15 | ALX RELAY (NC) | ALX ALARM CONTACT A |
| 16 | ALX RELAY (COM) | |
| 17 | ALX RELAY (NO.) | |
| 18 | ALX RELAY (NC) | ALX ALARM CONTACT B |
| 19 | ALX RELAY (COM) | |
| 20 | ALX RELAY (NO.) | |

1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - AAON

3 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - LENNOX

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NATIONAL ACCOUNTS

1. LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
2. LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.
3. TITUS AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.
4. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.
5. SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.
6. HALTON HOODS - CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
7. JER-AIR START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

I. MECHANICAL SPECIFICATIONS

PART I GENERAL

1. 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.
2. 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.
3. 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.
4. 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.
5. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNER'S 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.
6. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 7 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

1. HEATING AND COOLING EQUIPMENT

- 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 EXCHANGERS 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 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2. DUCTWORK, INSULATION & INSTALLATION (SEE DWG M2) FOR GREASE DUCT)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (UNO).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, UNO.
- 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.
- 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 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- F. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- G. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- H. 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.
- I. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1/2 PCF INSULATION.
- J. 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.
- K. 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.
- L. 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.
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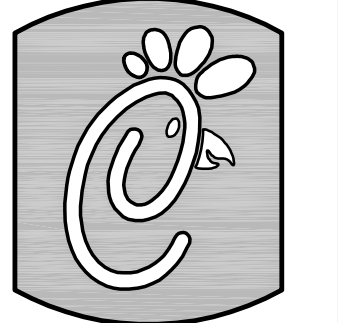
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- B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.
- C. A FACTORY INSTALLED SMOKE DETECTOR IN THE SUPPLY AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. 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.
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5. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER.



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

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Seal

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SHEET TITLE
MECHANICAL
SPECIFICATIONS

VERSION: 5
ISSUE DATE: 1-2011

Job No. : CE1103
Store : #2722
Date : 2/21/11
Drawn By : BF
Checked By: MTK

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NATIONAL ACCOUNTS

1. LENNOX EQUIPMENT - CONTACT LENNOX NATIONAL ACCOUNTS AT 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY. LENNOX EQUIPMENT NOT PURCHASED THRU LENNOX NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
2. LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.
3. TITUS AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.
4. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.
5. SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.
6. HALTON HOODS - CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
7. JER-AIR START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARRON COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARRON COMPANY WILL NOT BE ACCEPTED.

I. MECHANICAL SPECIFICATIONS

PART I GENERAL

1. 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.
2. 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.
3. 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.
4. 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.
5. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNER'S 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.
6. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 7 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

I. HEATING AND COOLING EQUIPMENT

- 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 EXCHANGERS 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 972-497-6260 (OR BY FAX AT 972-497-5112) FOR PRICING, ORDERING AND AVAILABILITY.

2. DUCTWORK, INSULATION & INSTALLATION (SEE DWG M2) FOR GREASE DUCT)

- A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.
- B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (UNO).
- C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, UNO.
- 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 UL DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC.
- 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 5.6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.
- F. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.
- G. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.
- H. 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.
- I. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1/2 PCF INSULATION.
- J. 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.
- K. 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.
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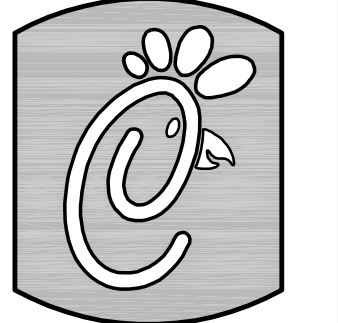
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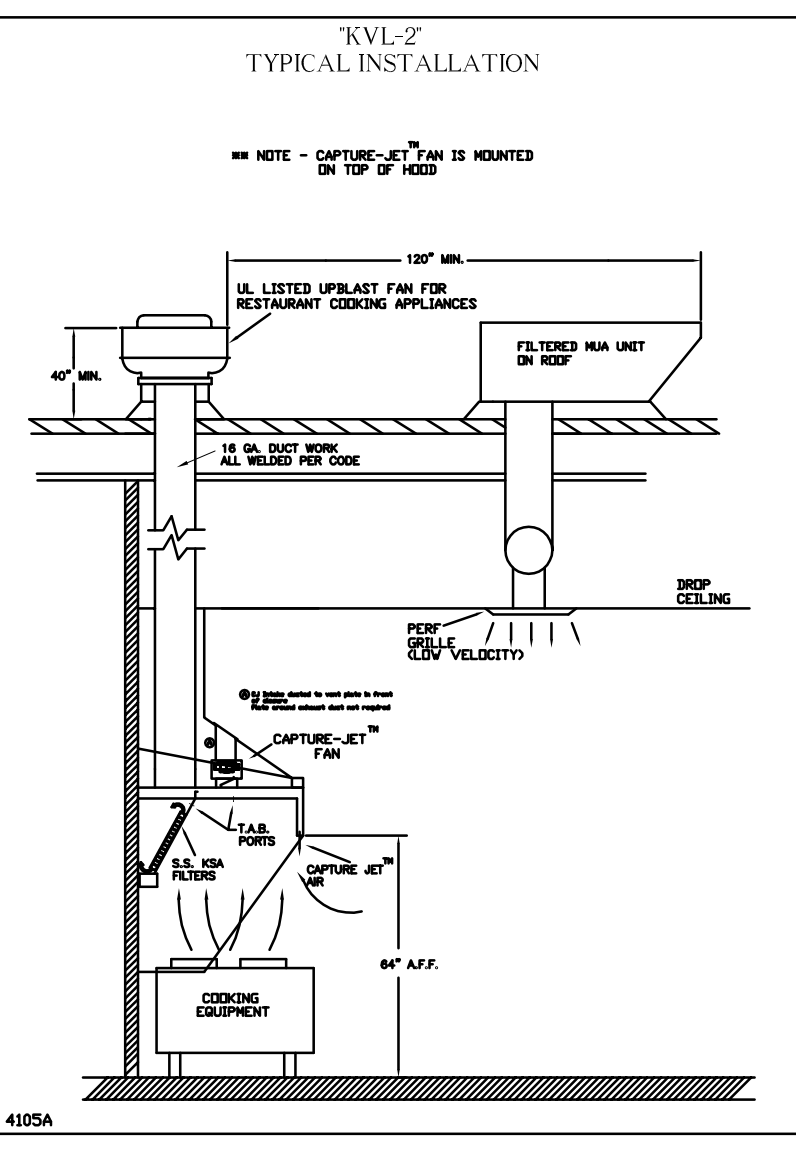
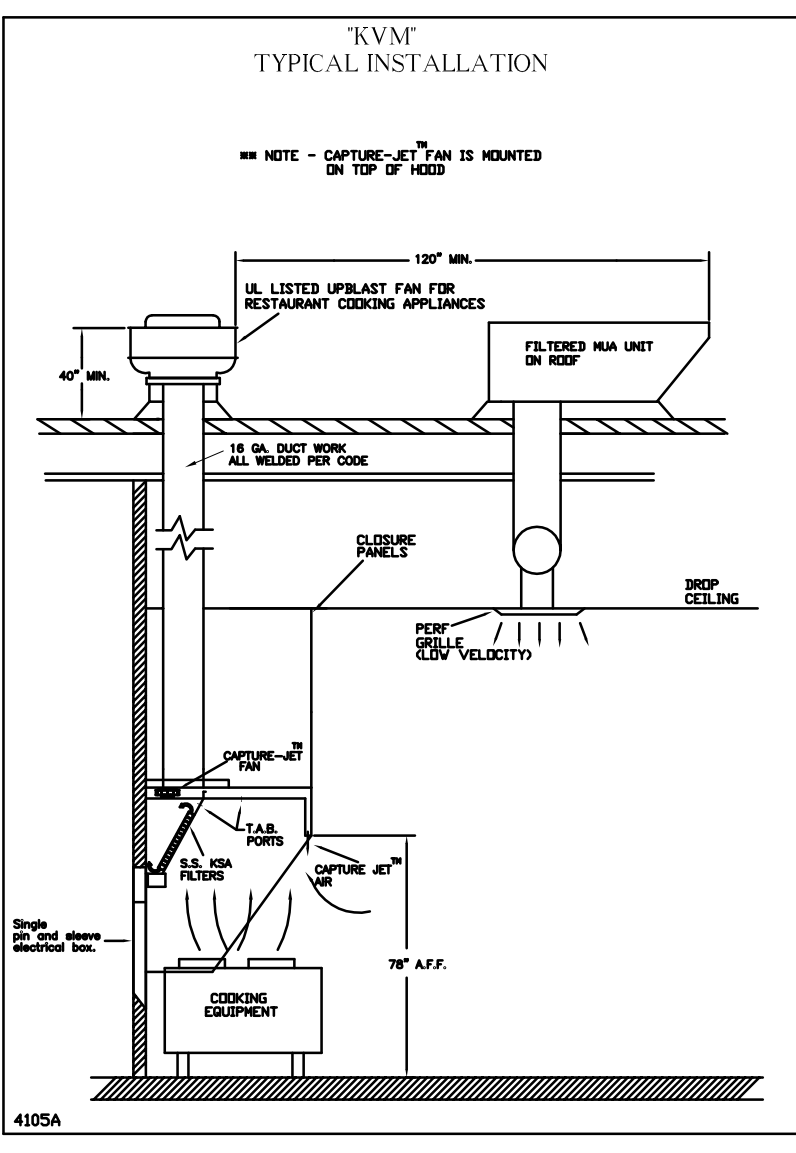
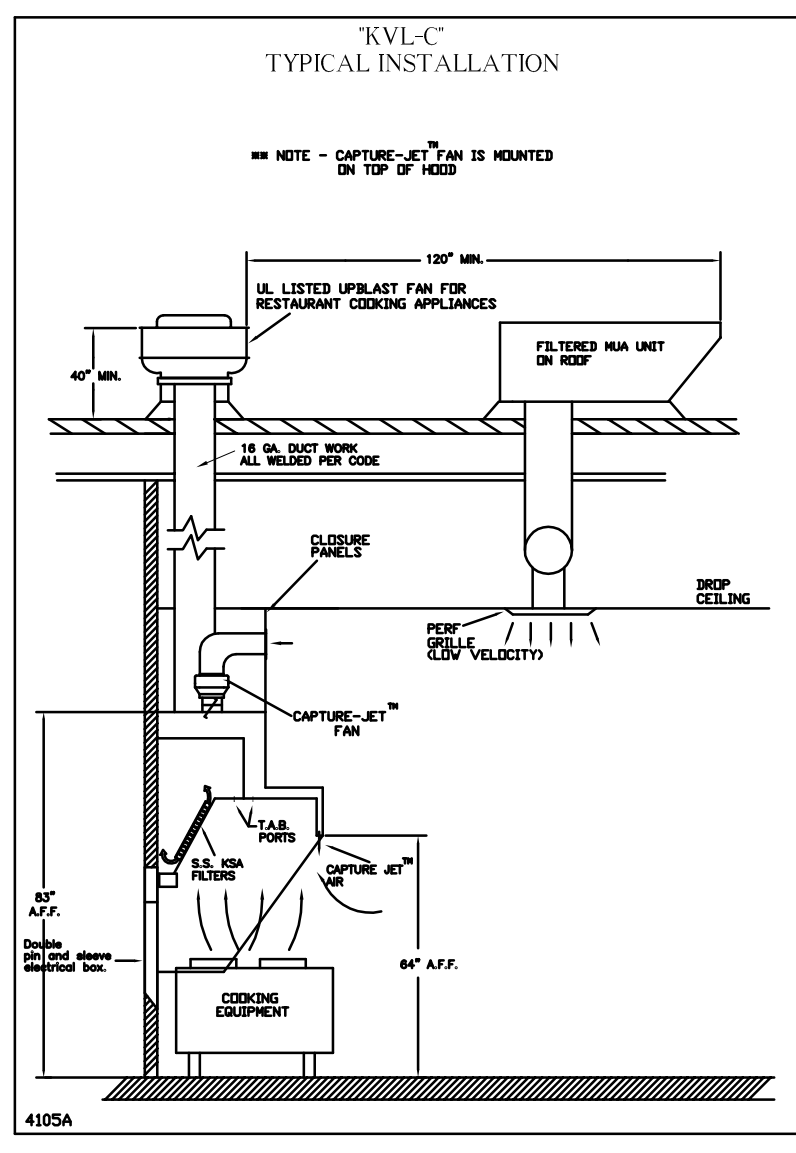
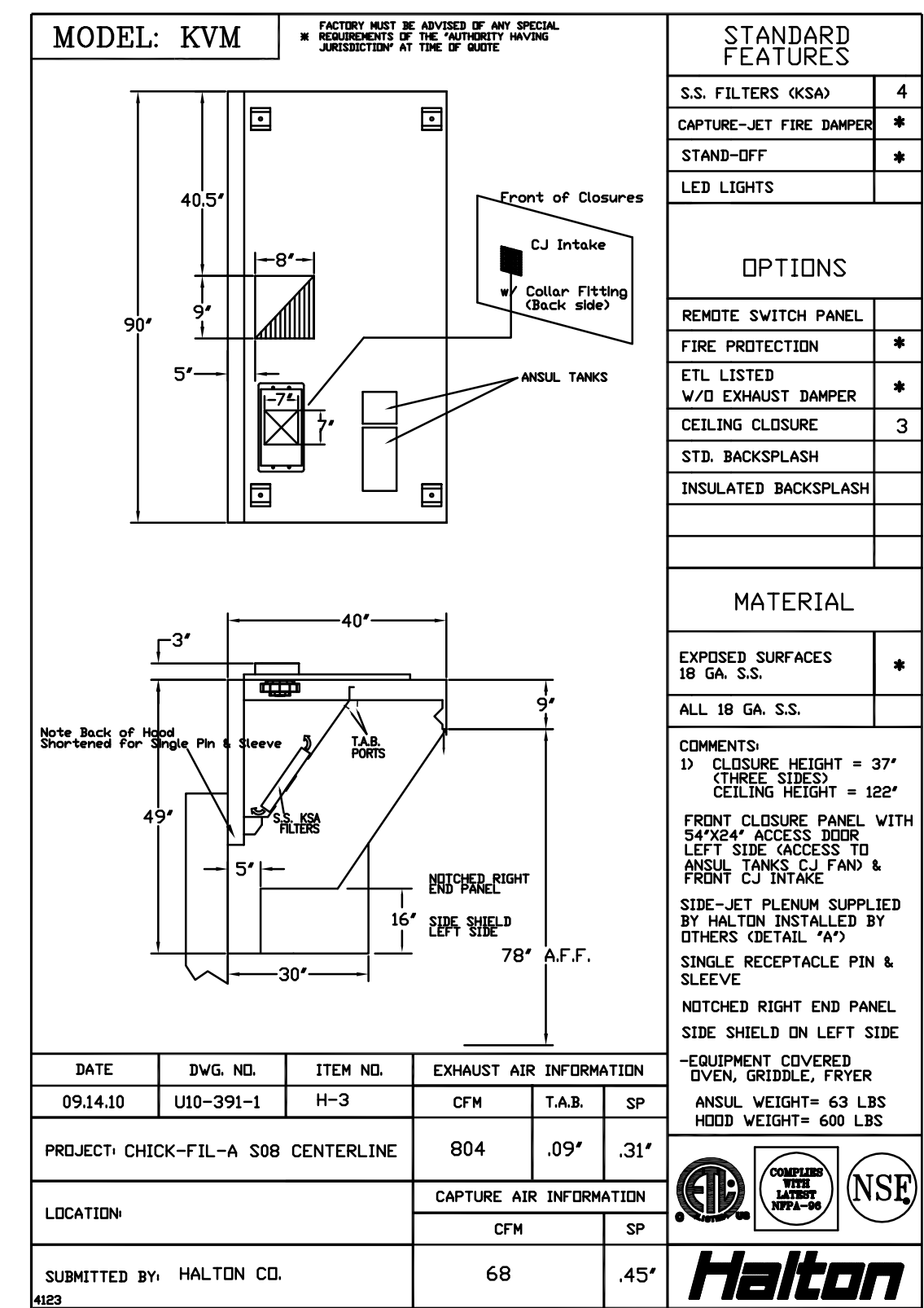
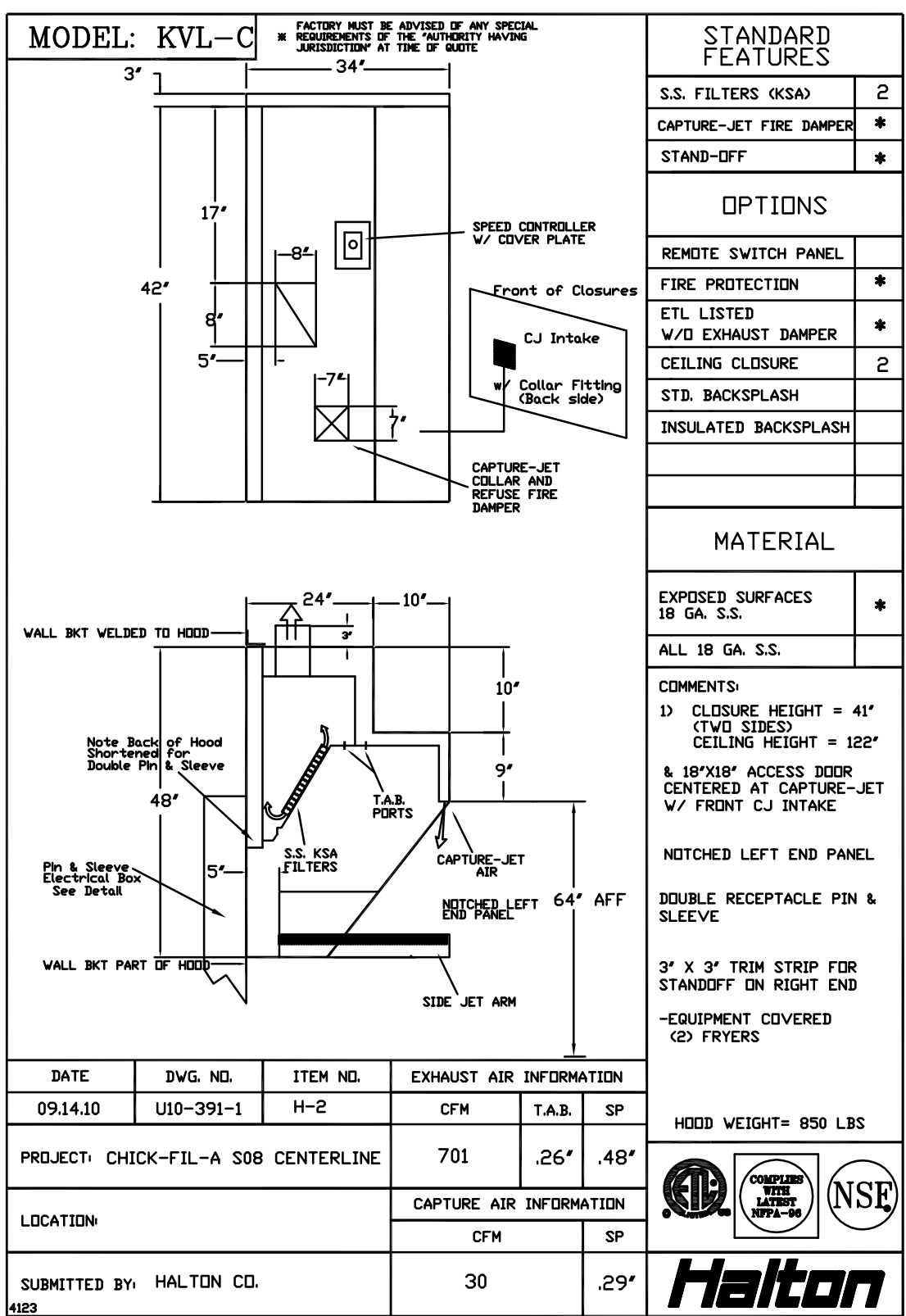
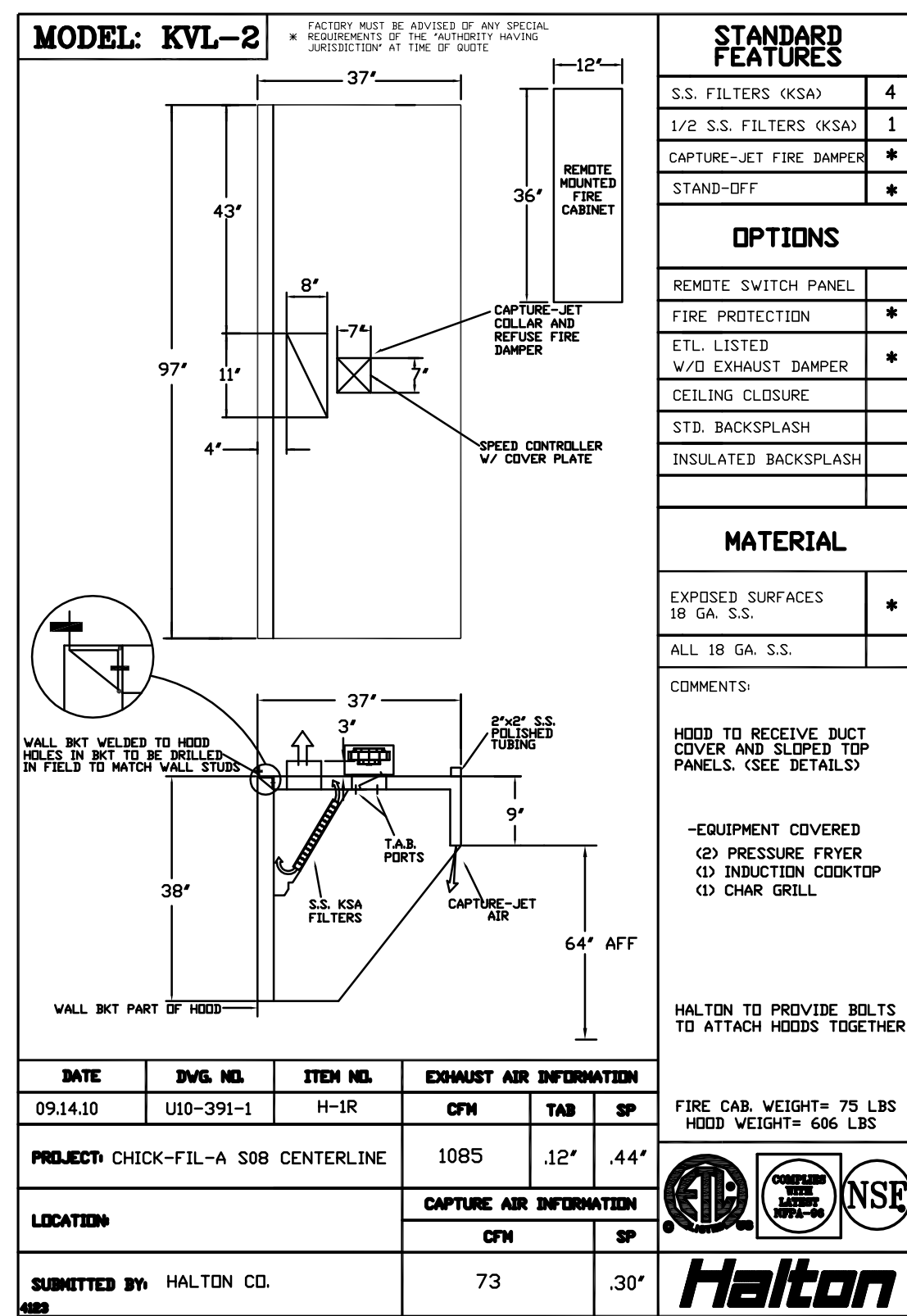
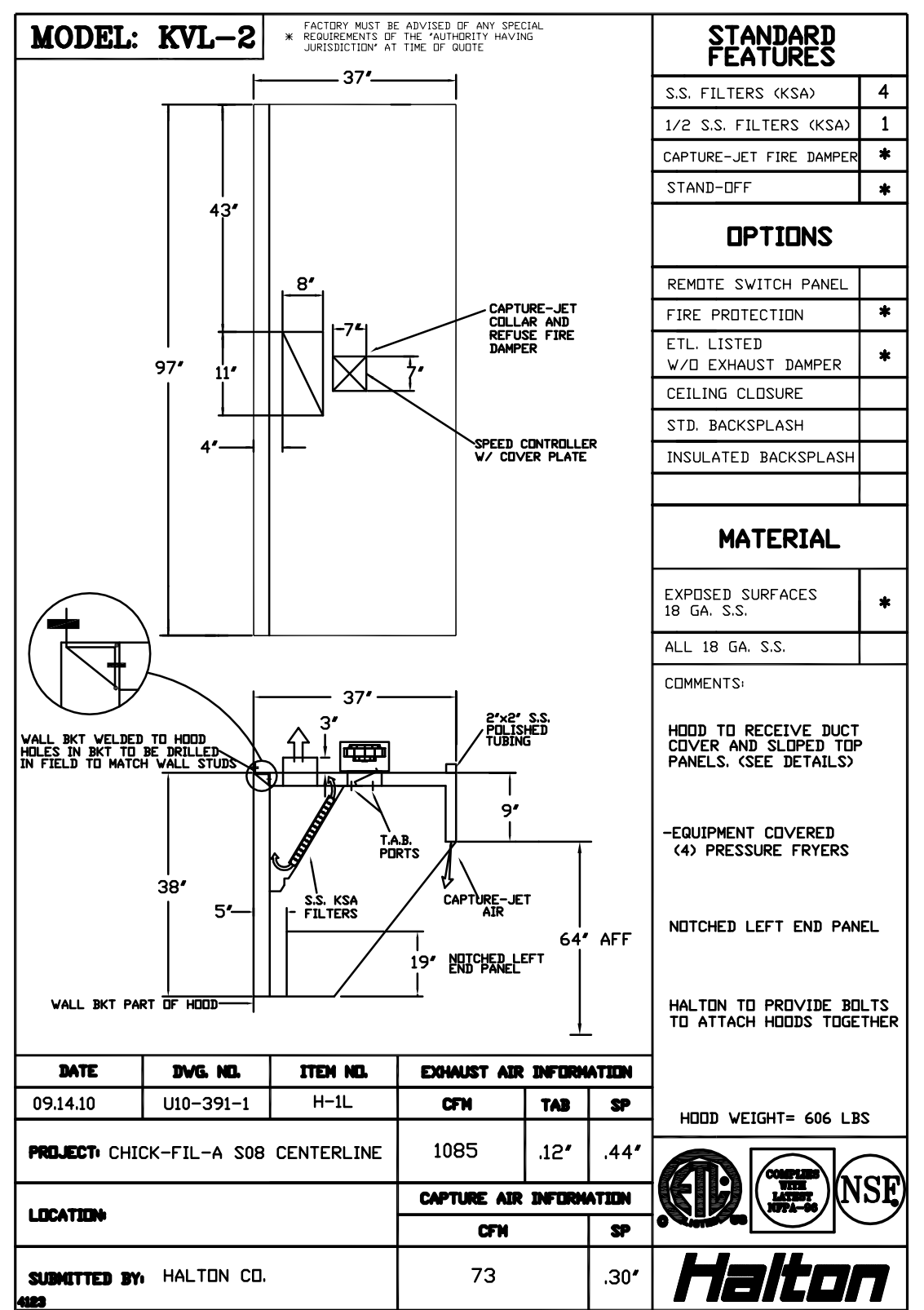
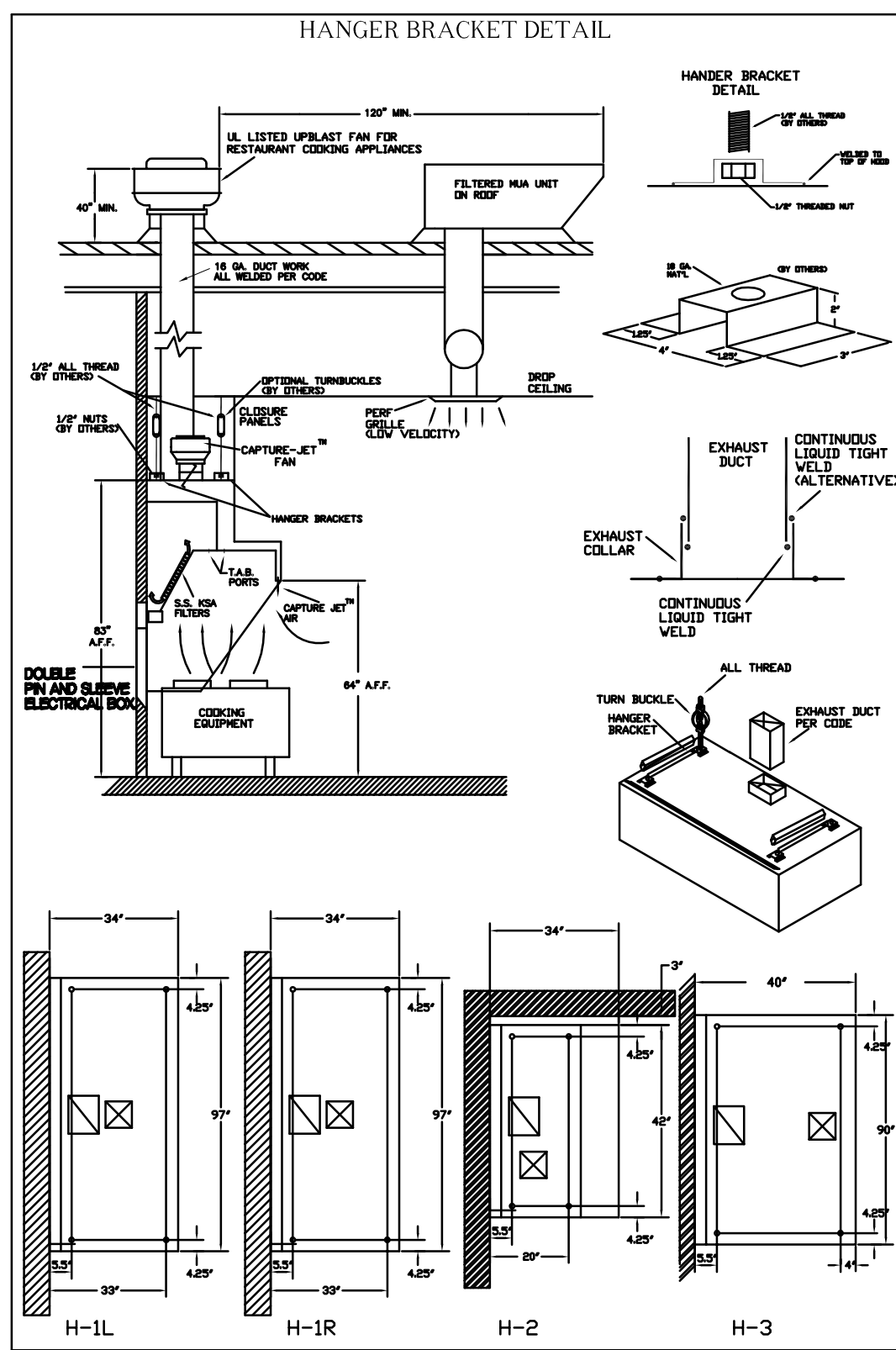
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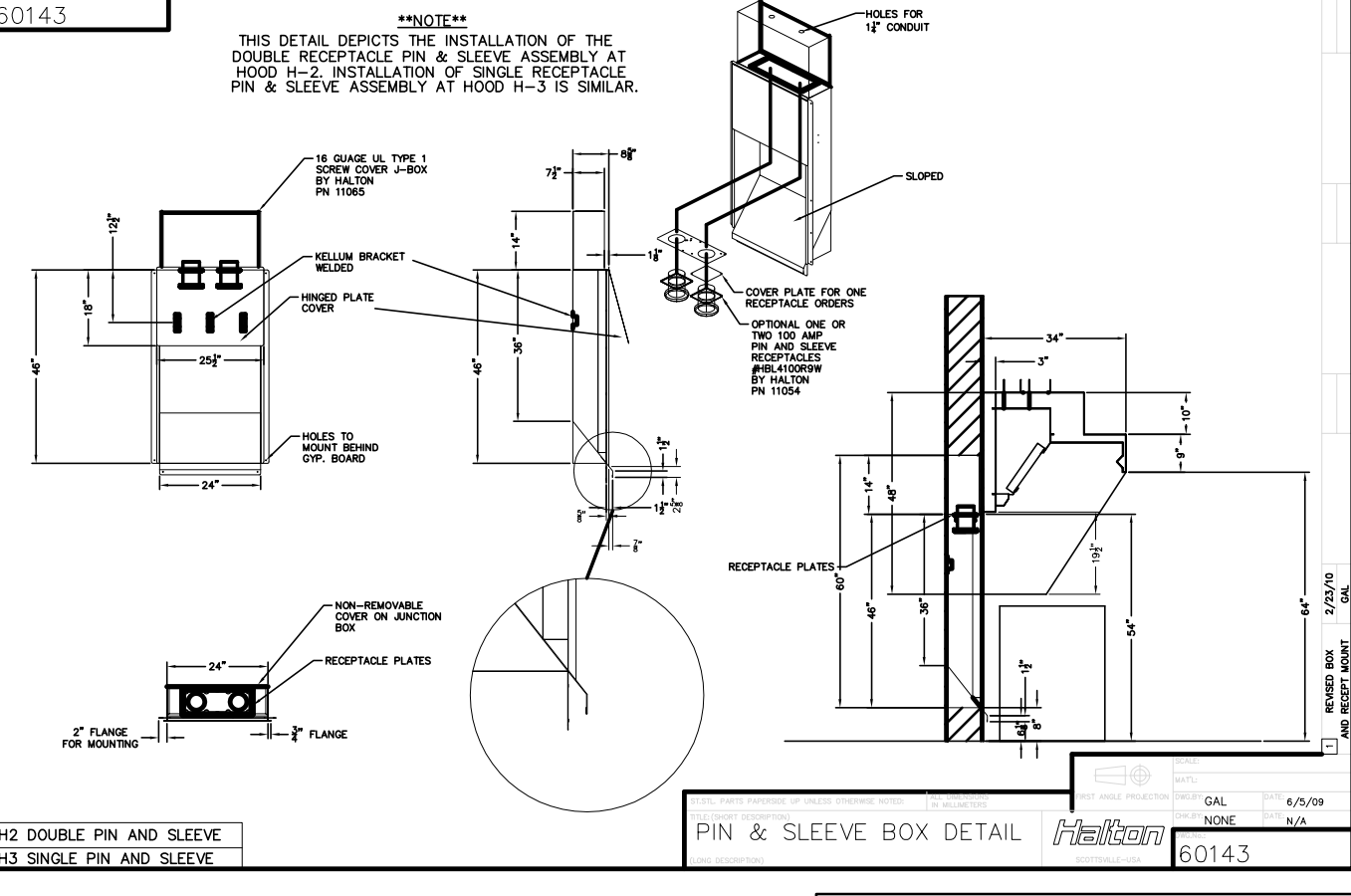
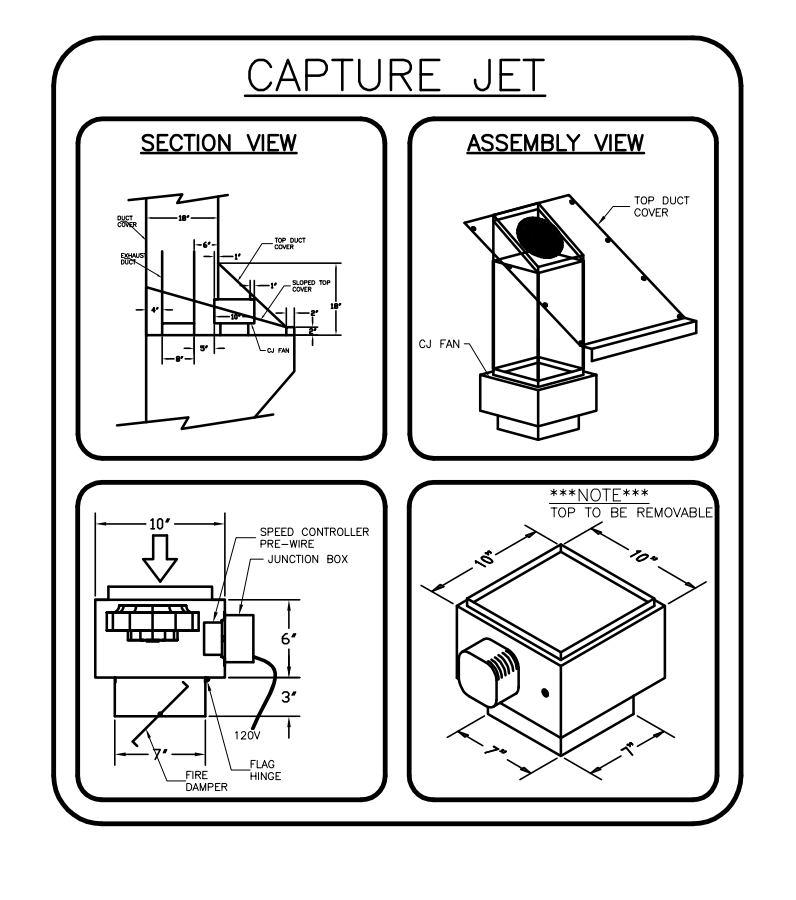
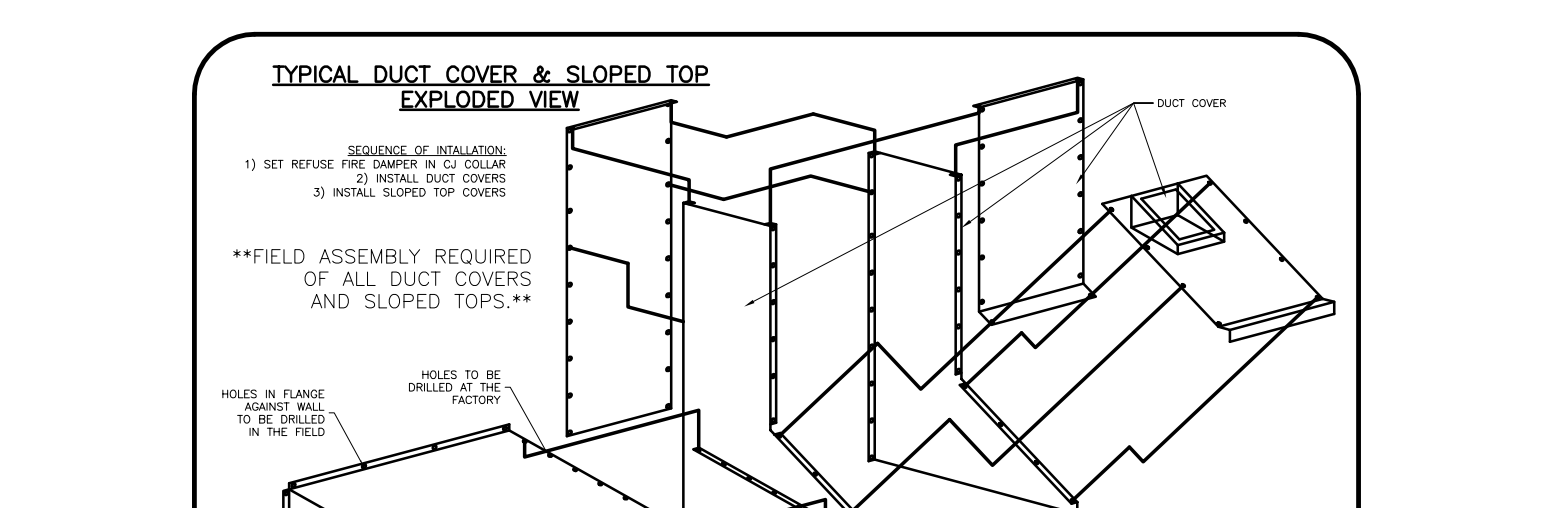
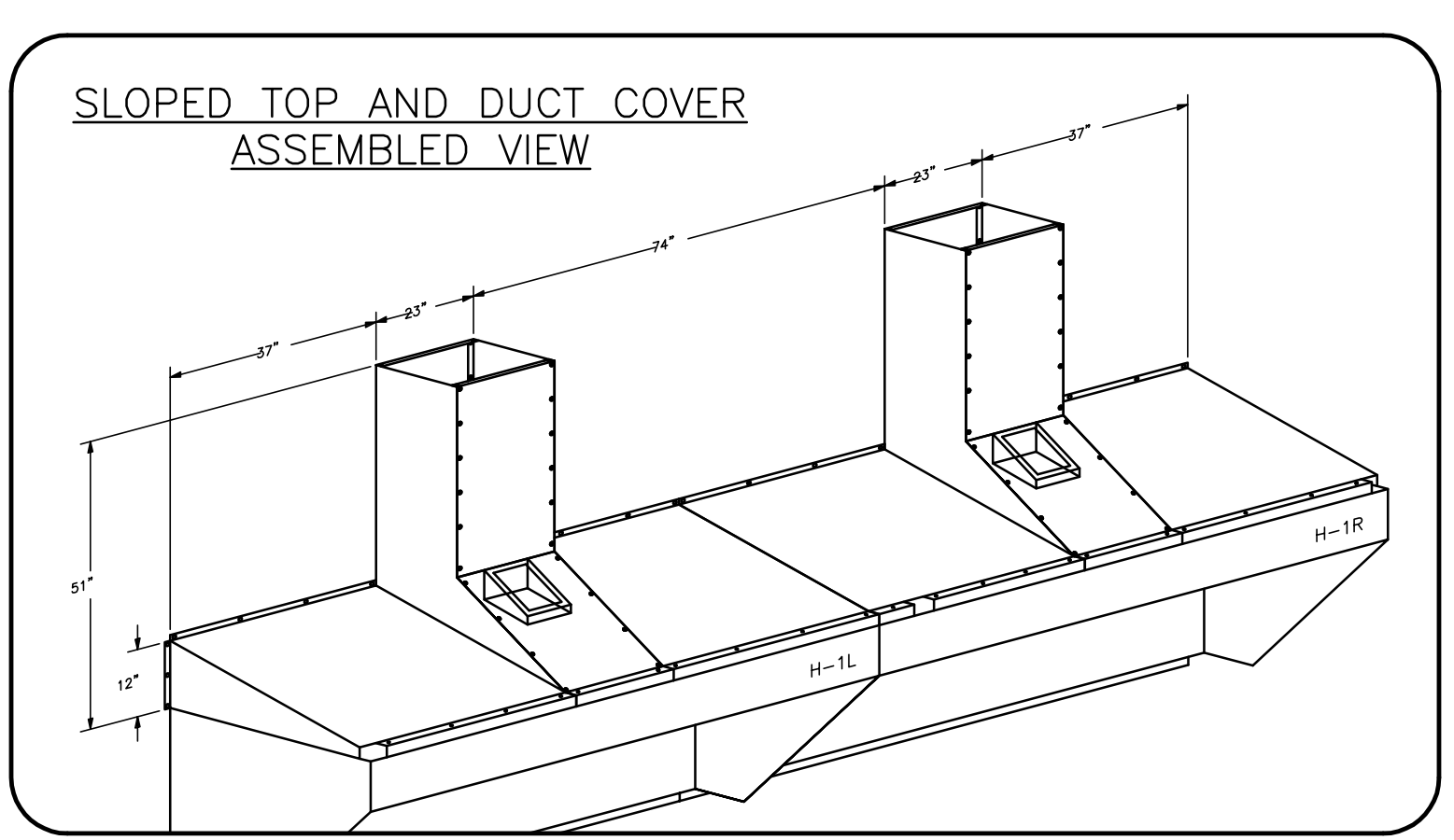
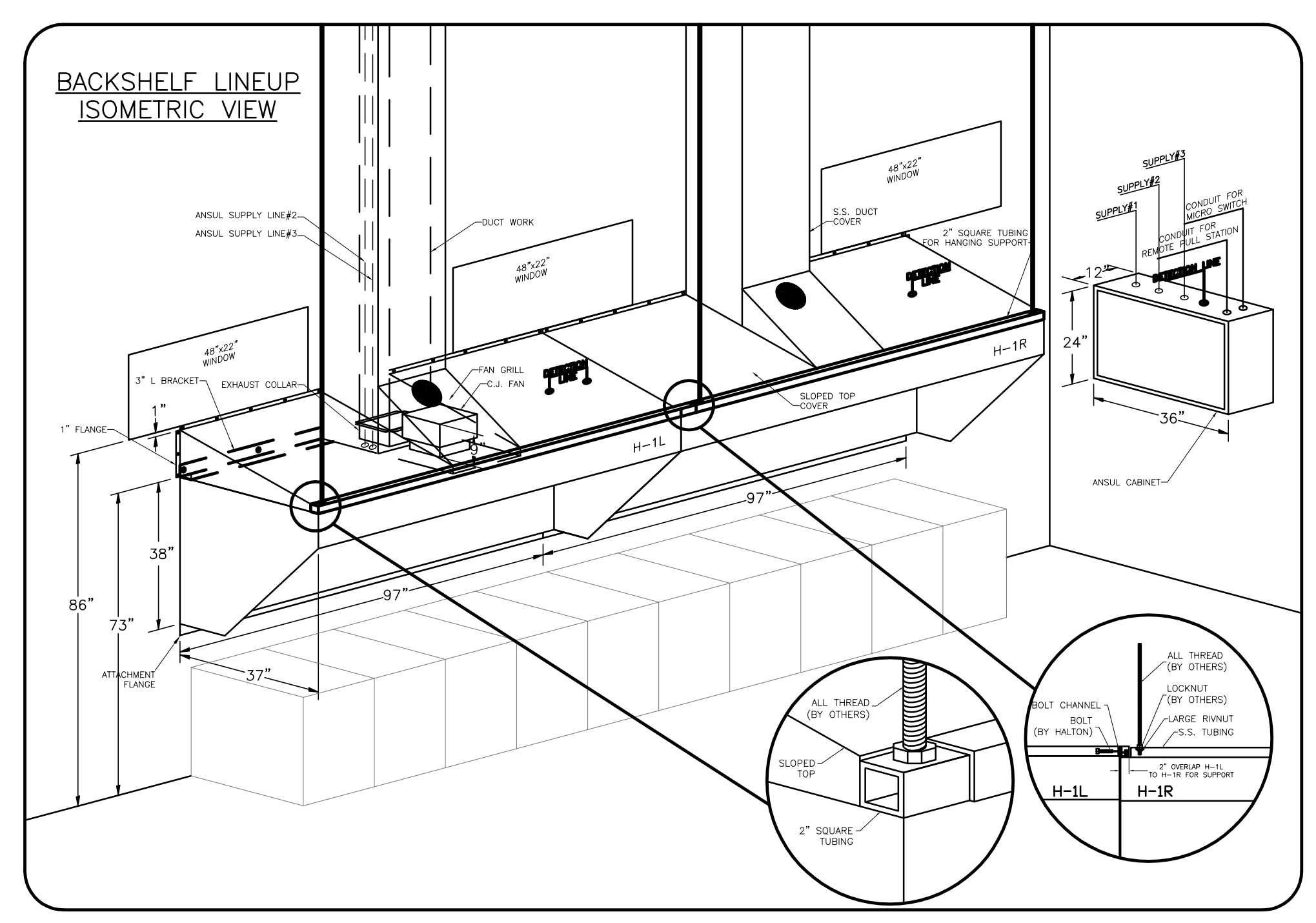
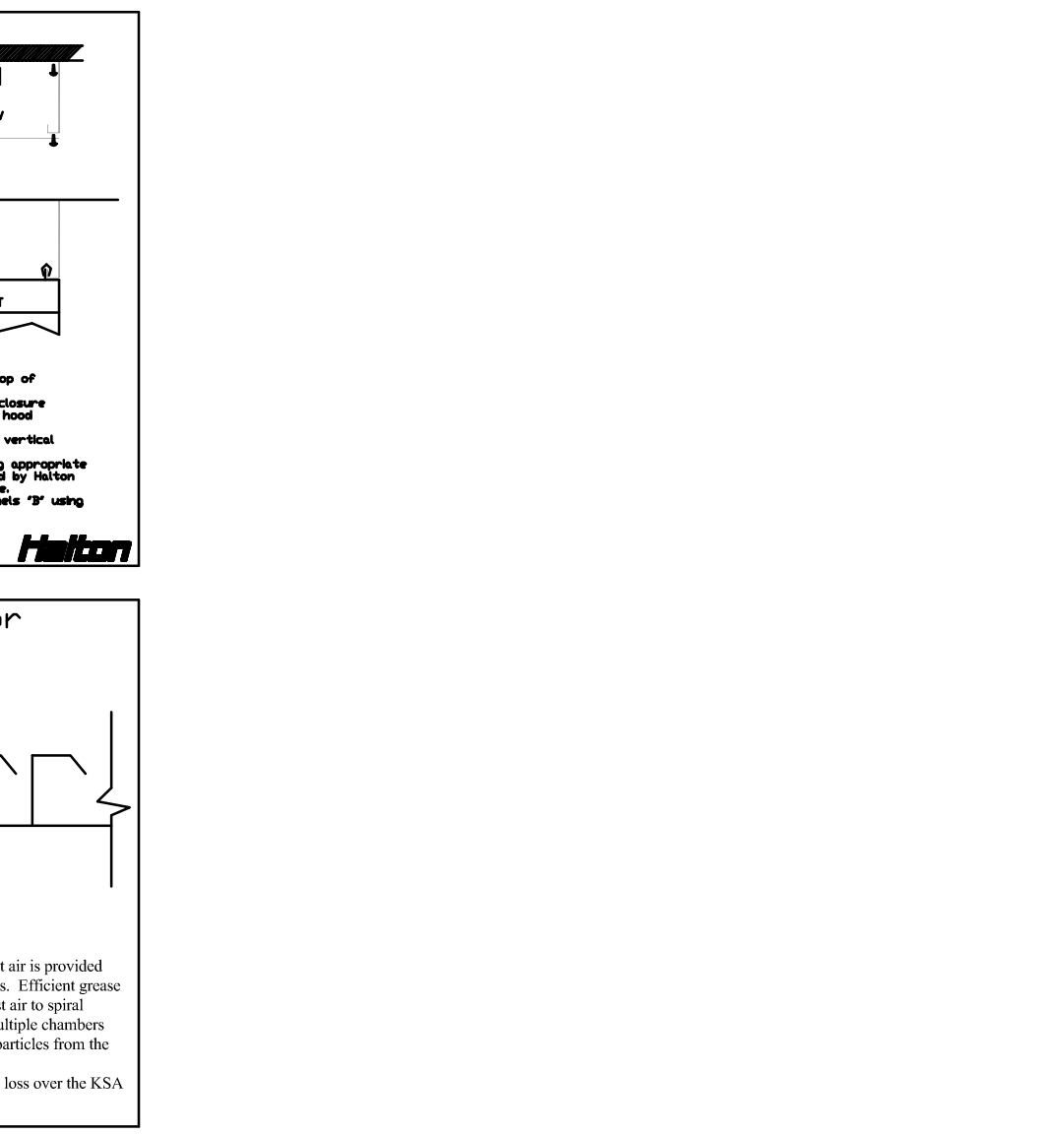
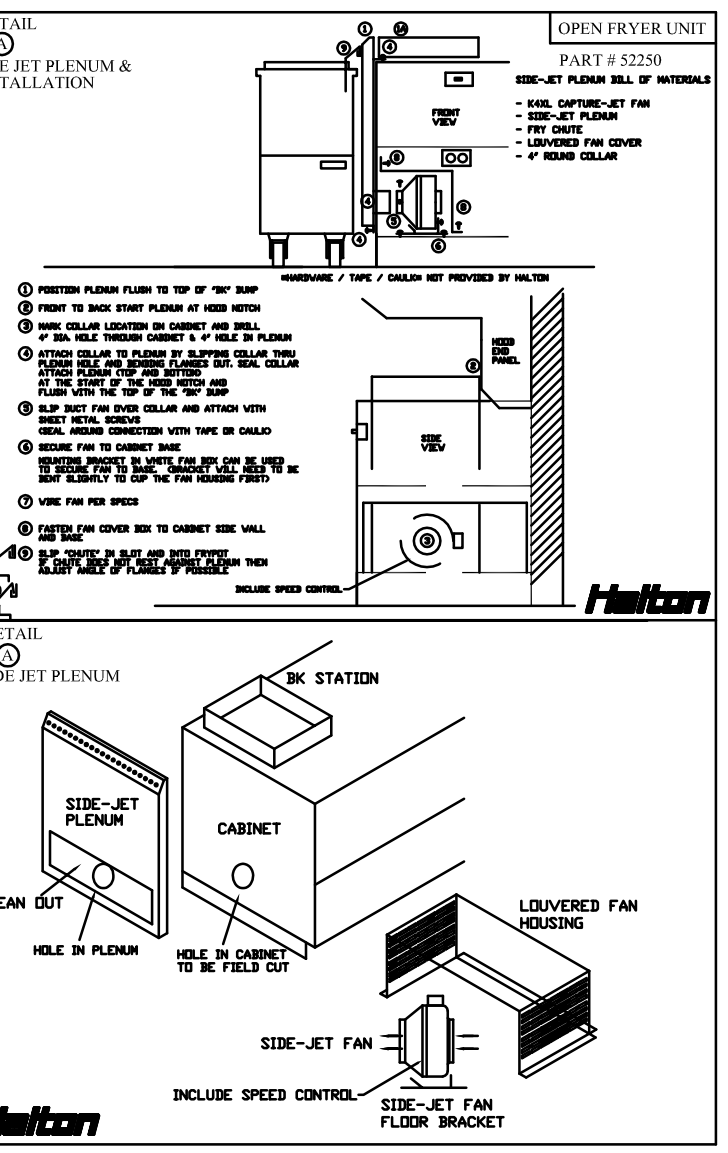
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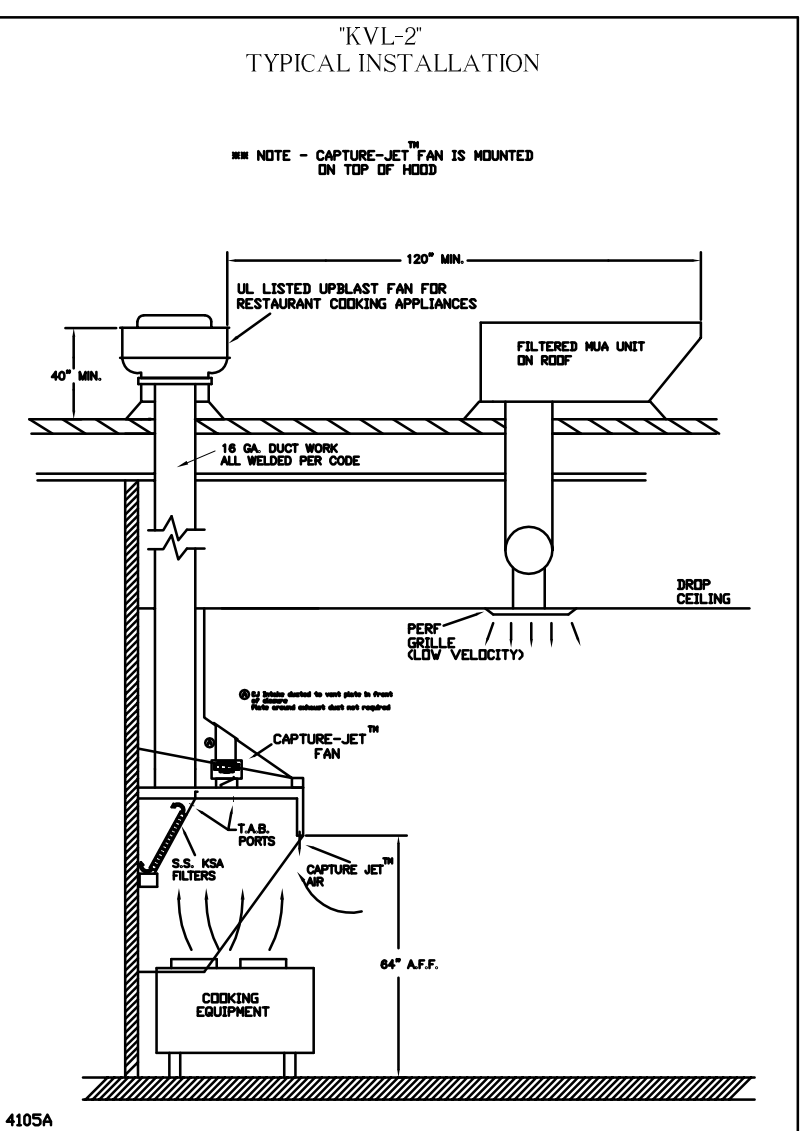
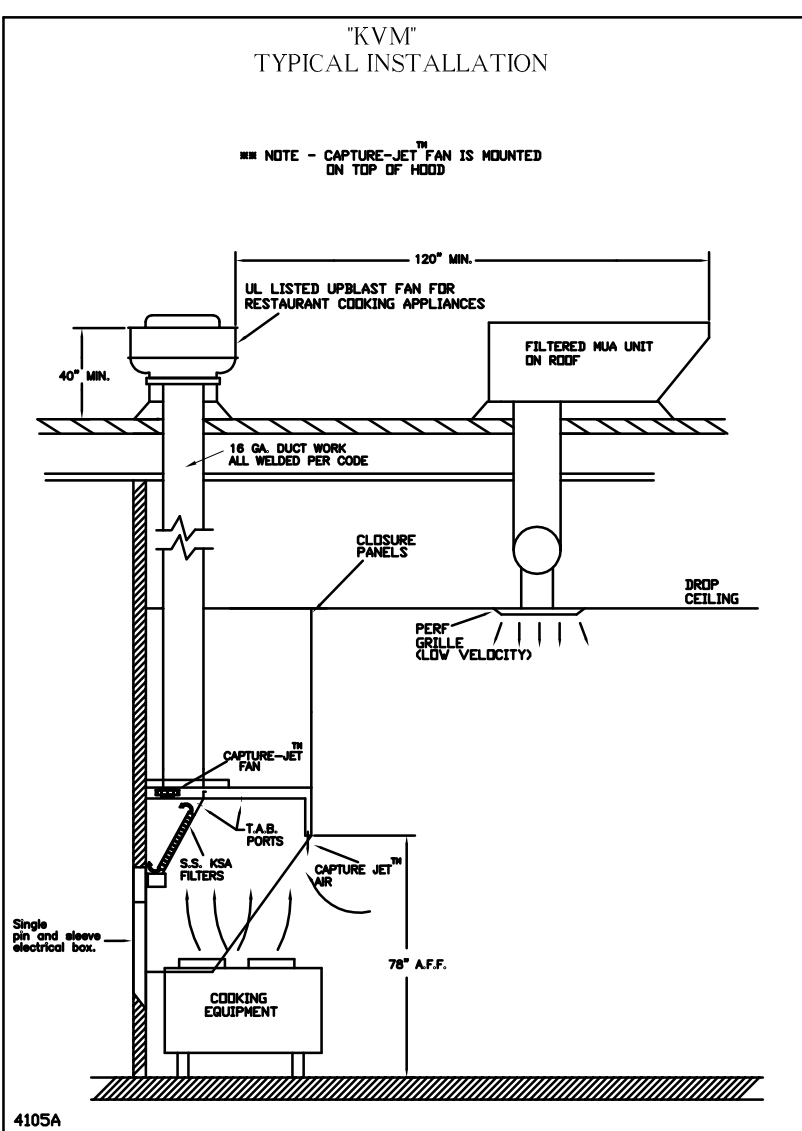
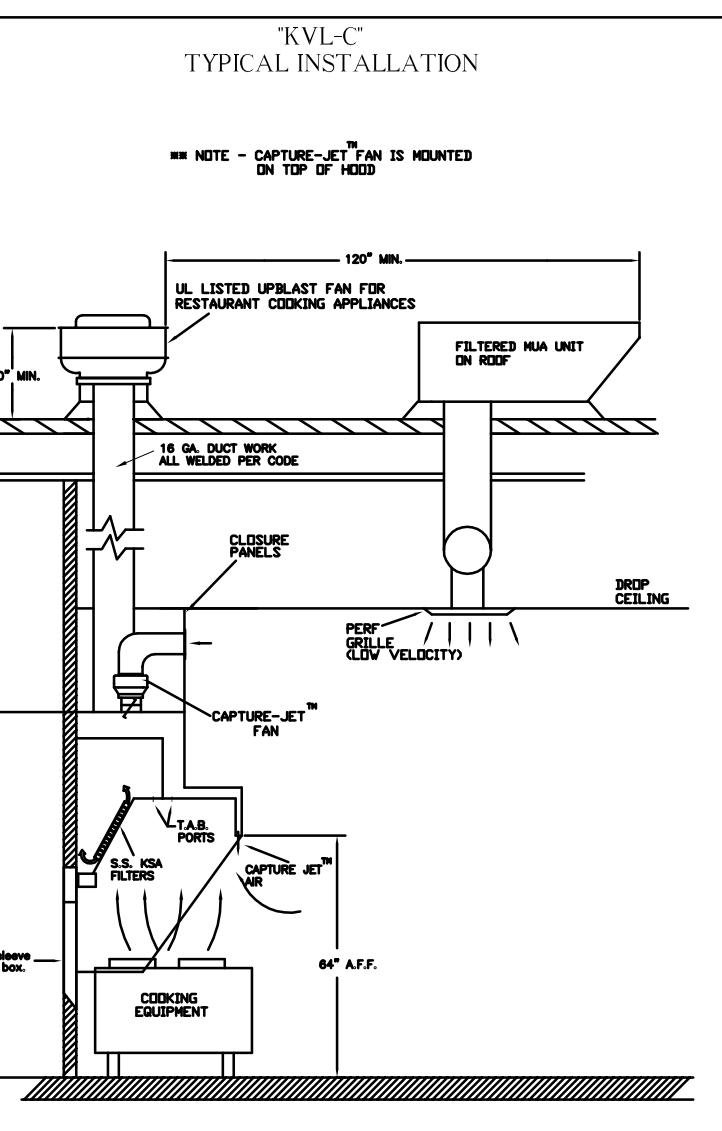
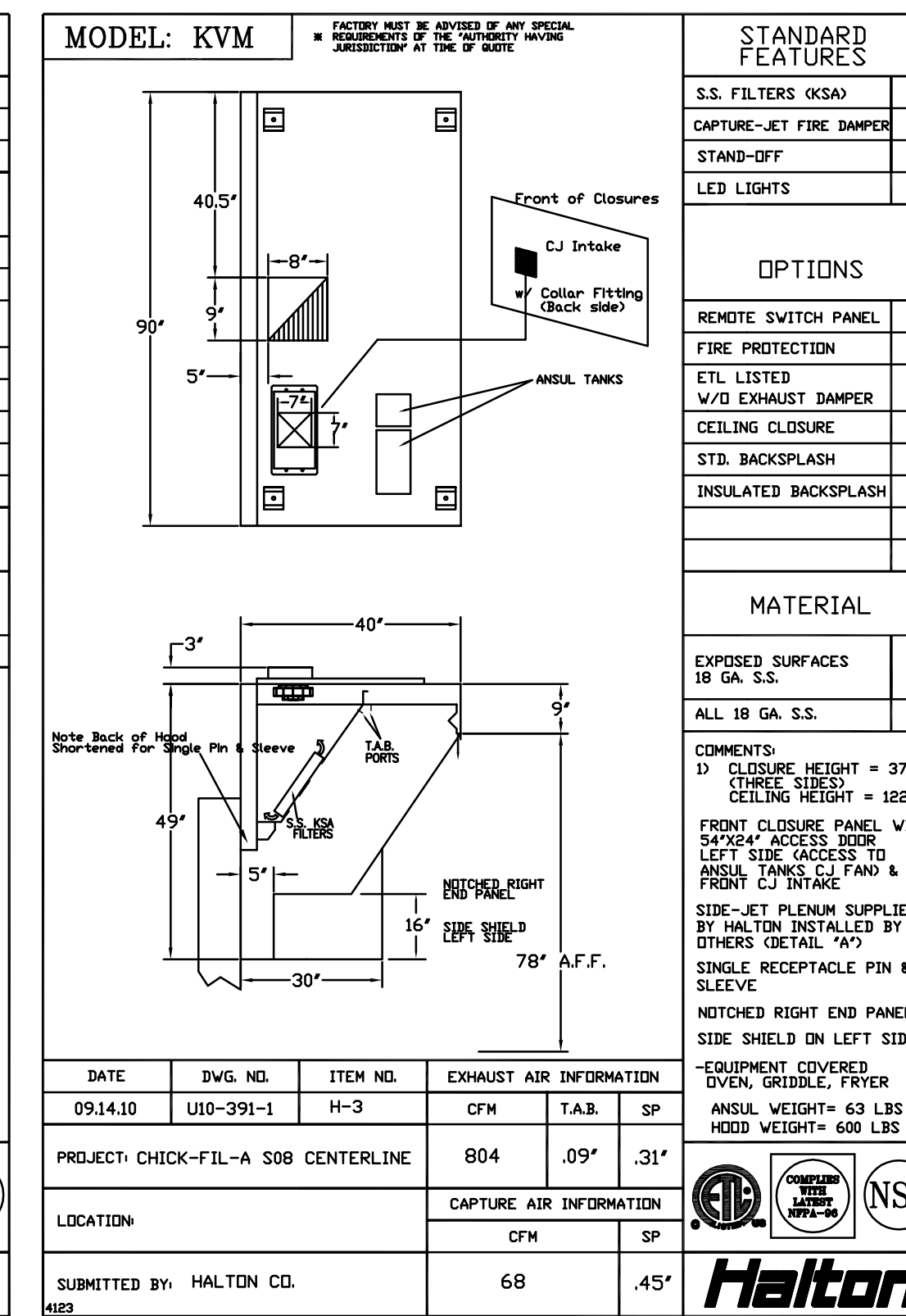
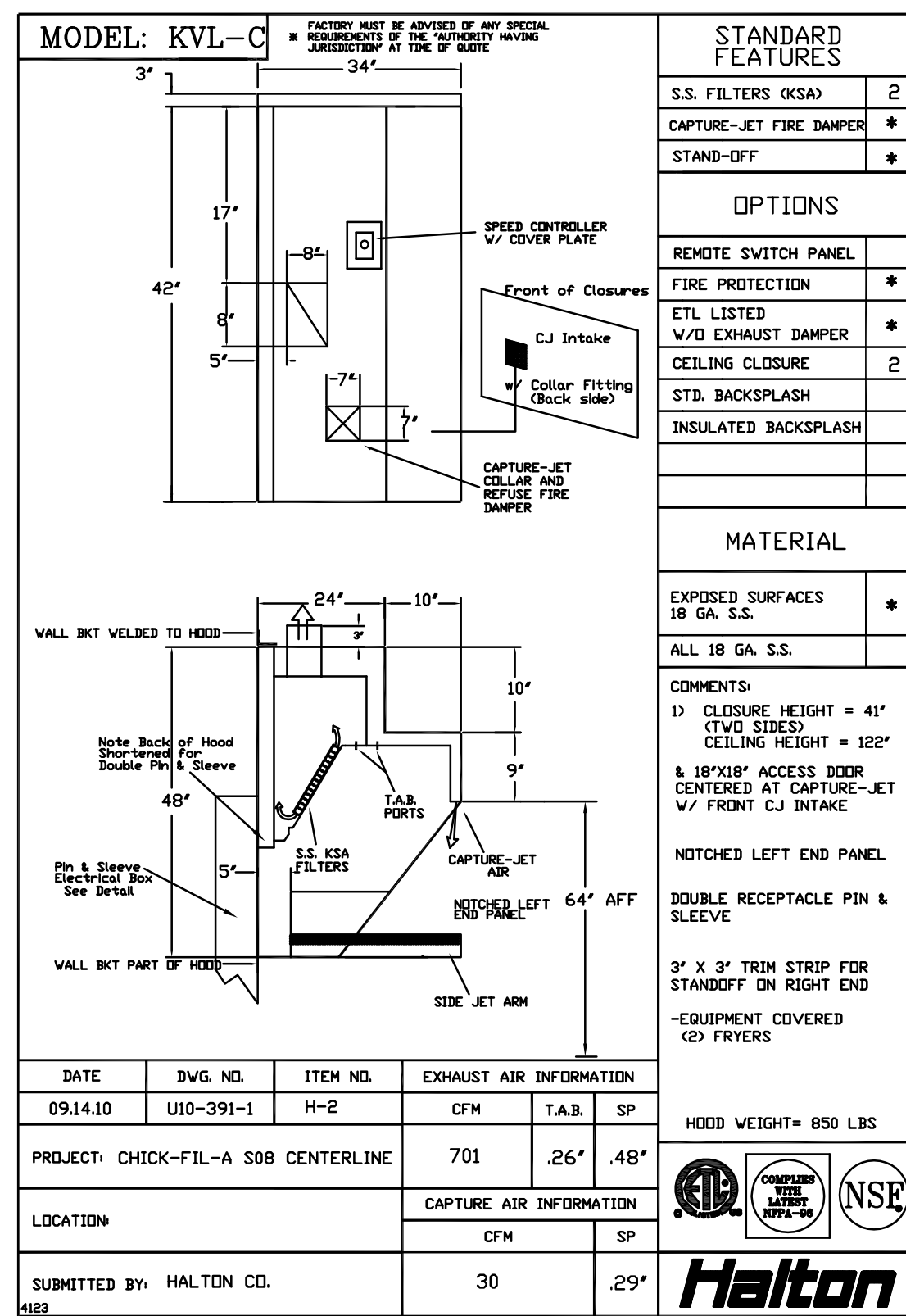
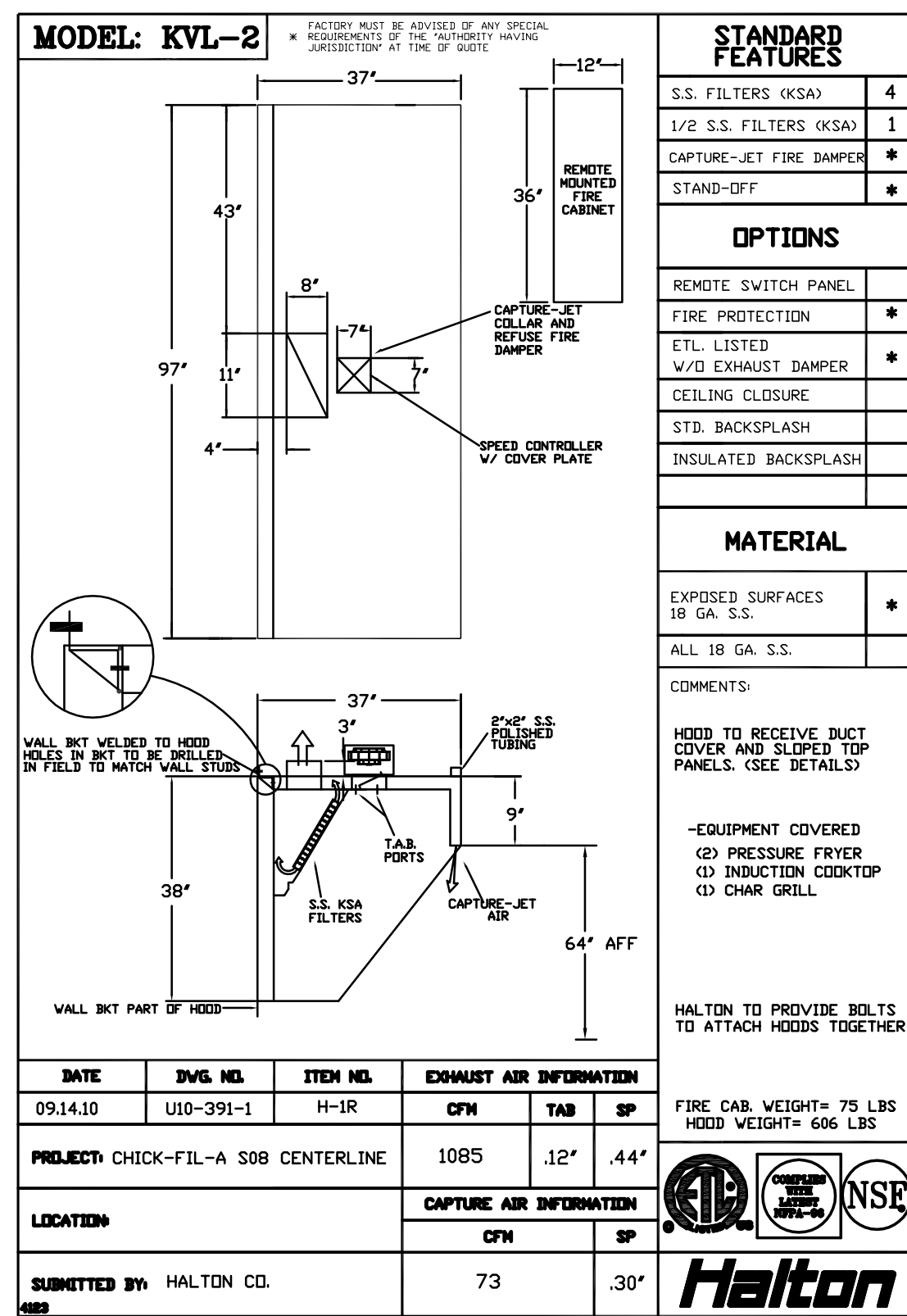
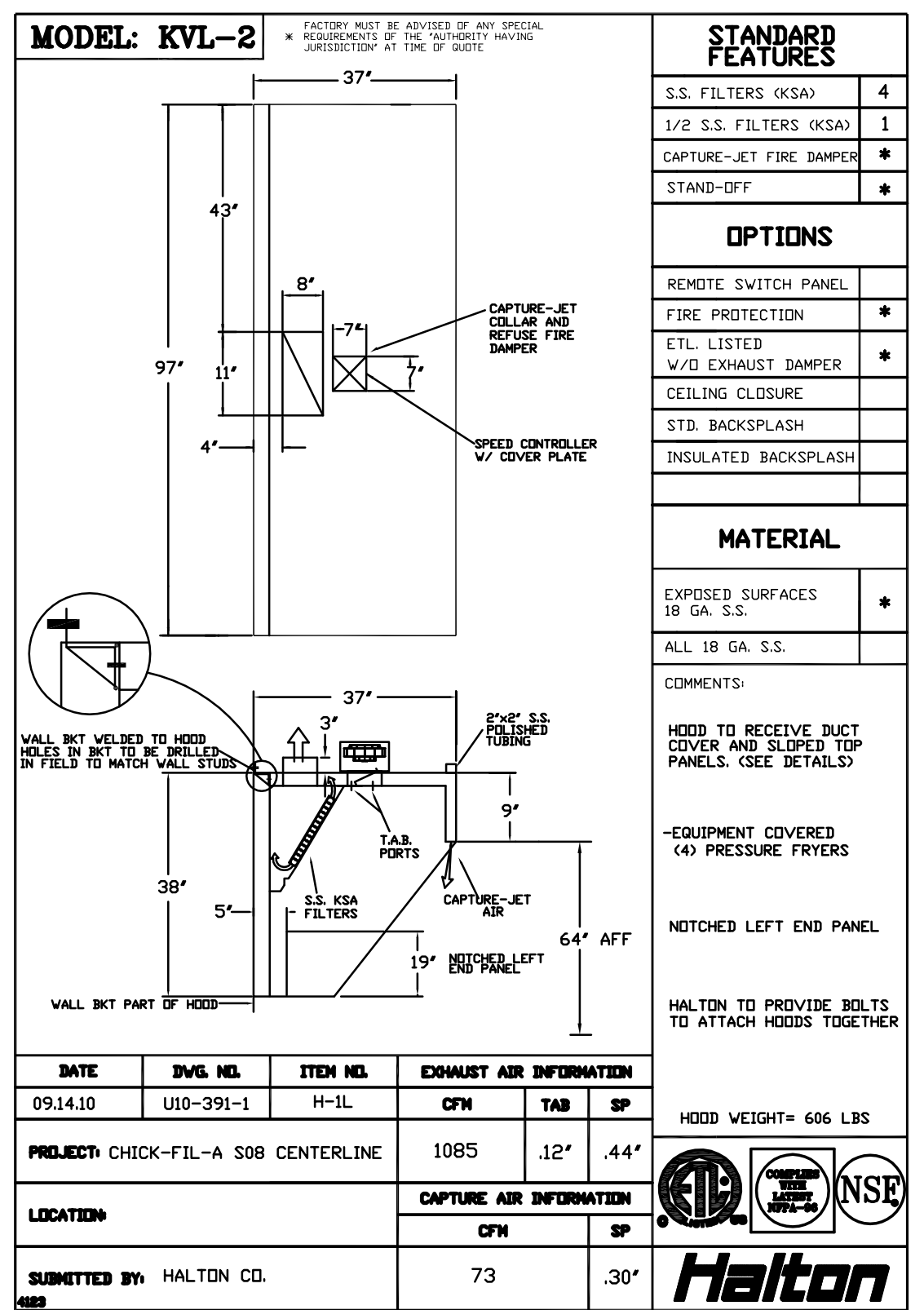
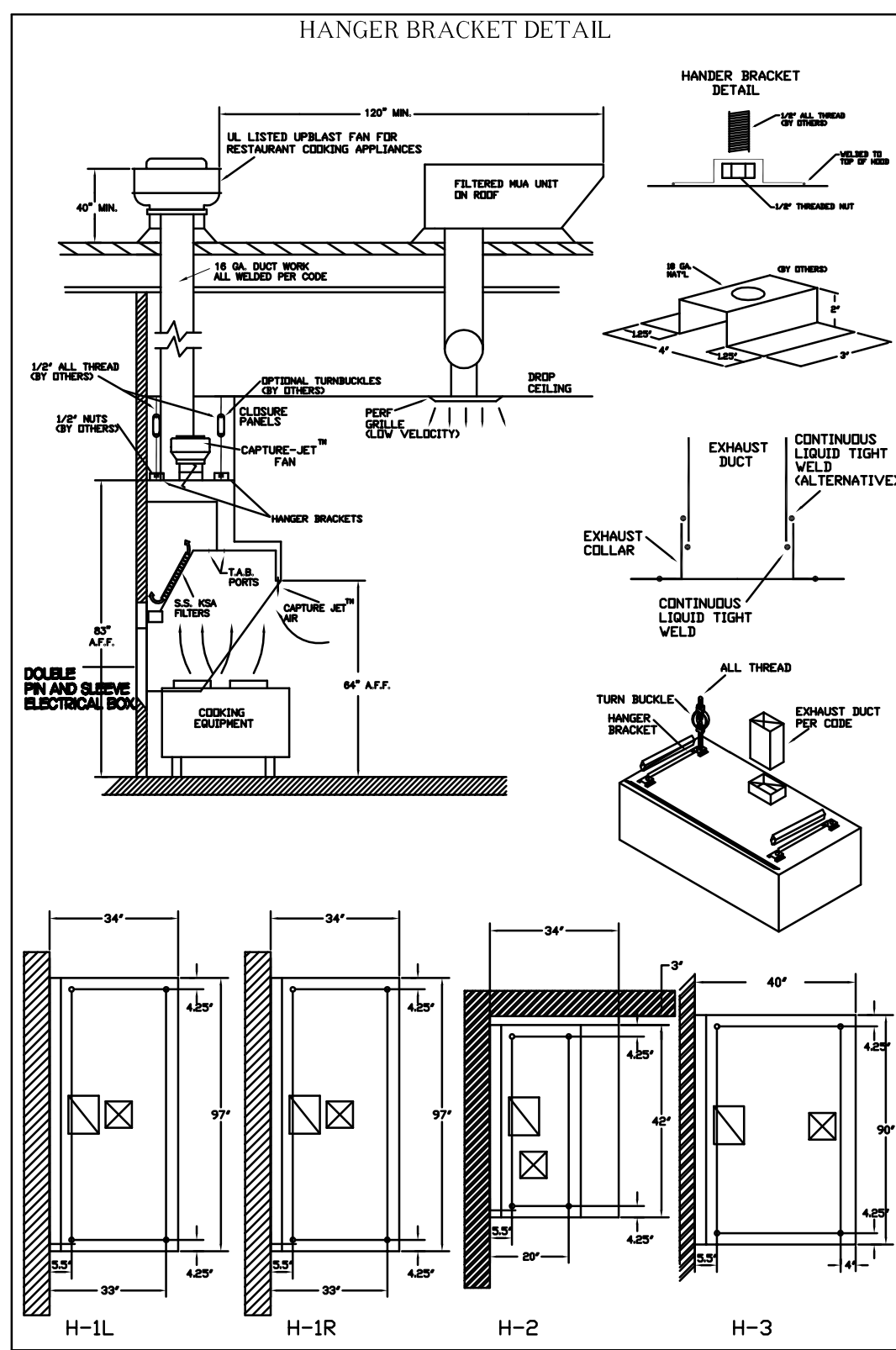
M-5.I



Capture-Jet Fan Installation and Dimensional Data

| MODEL | AIR FLOW @1\"/> | |
|-------|-------------------|-----------|
| K4XL | 30 CFM - 80 CFM | 9.50\"/> |
| K6XL | 70 CFM - 170 CFM | 13.20\"/> |
| K9XL | 100 CFM - 240 CFM | 13.20\"/> |

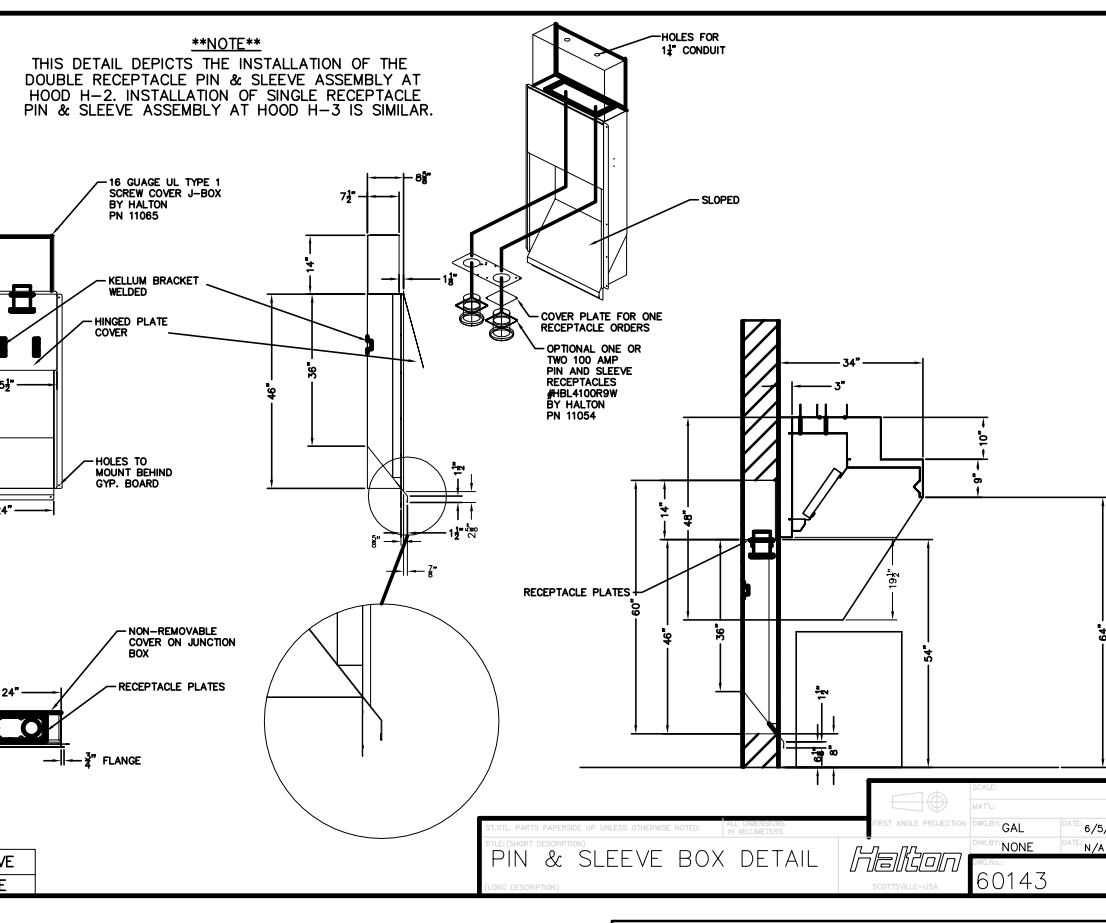
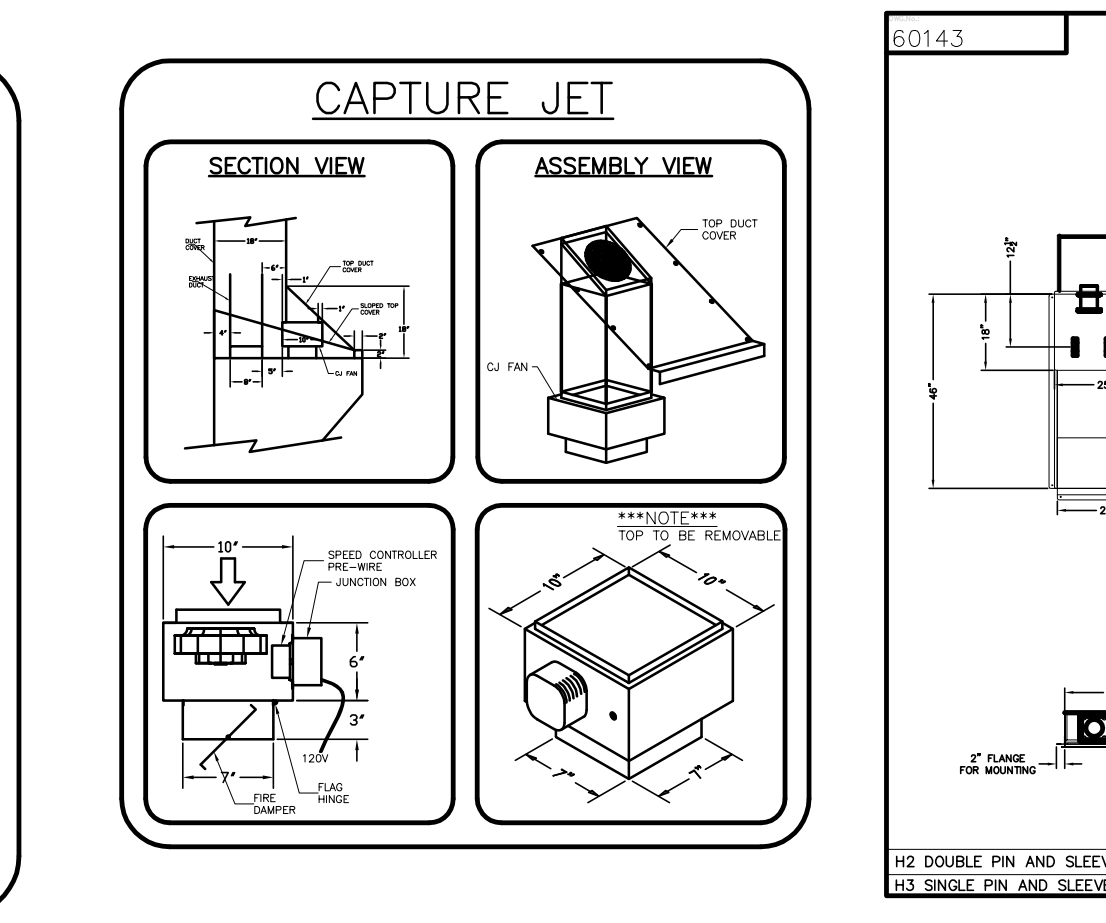
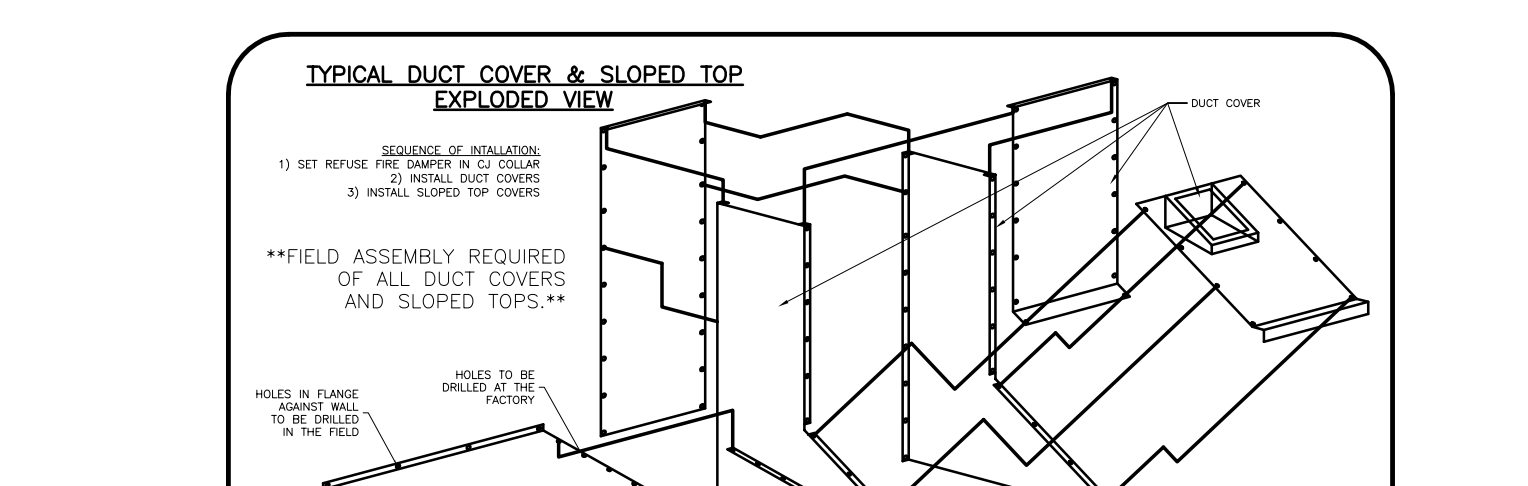
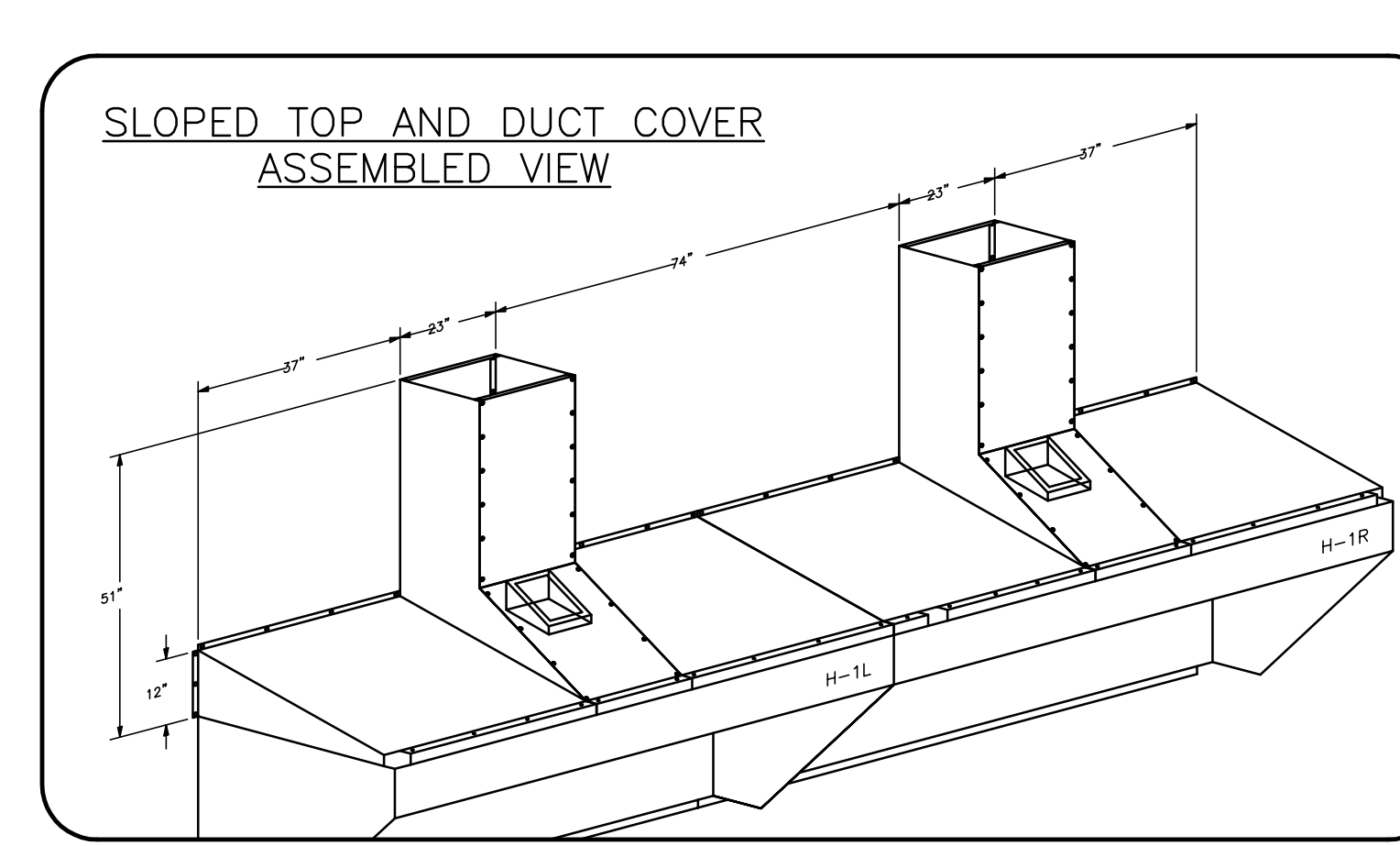
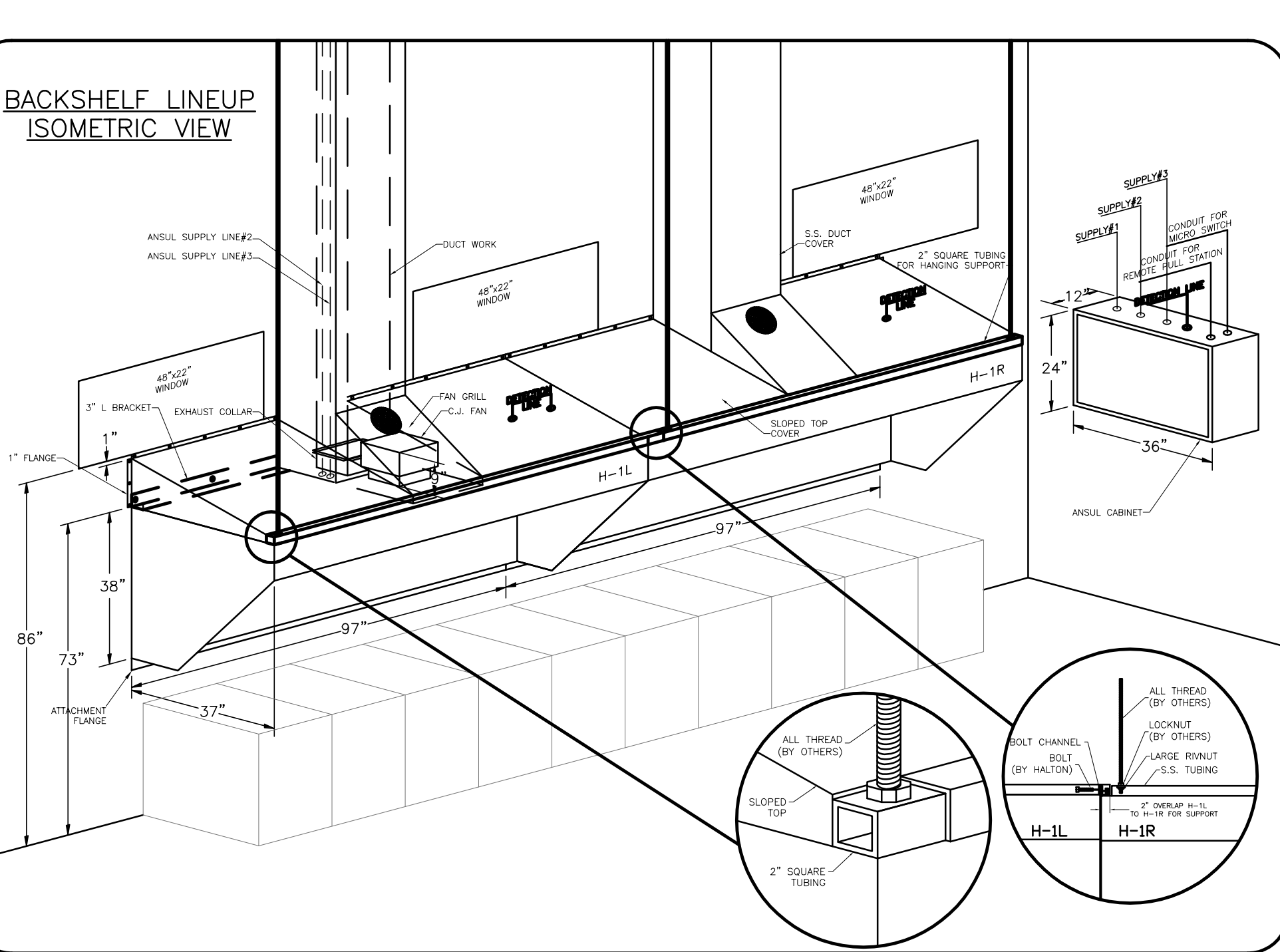
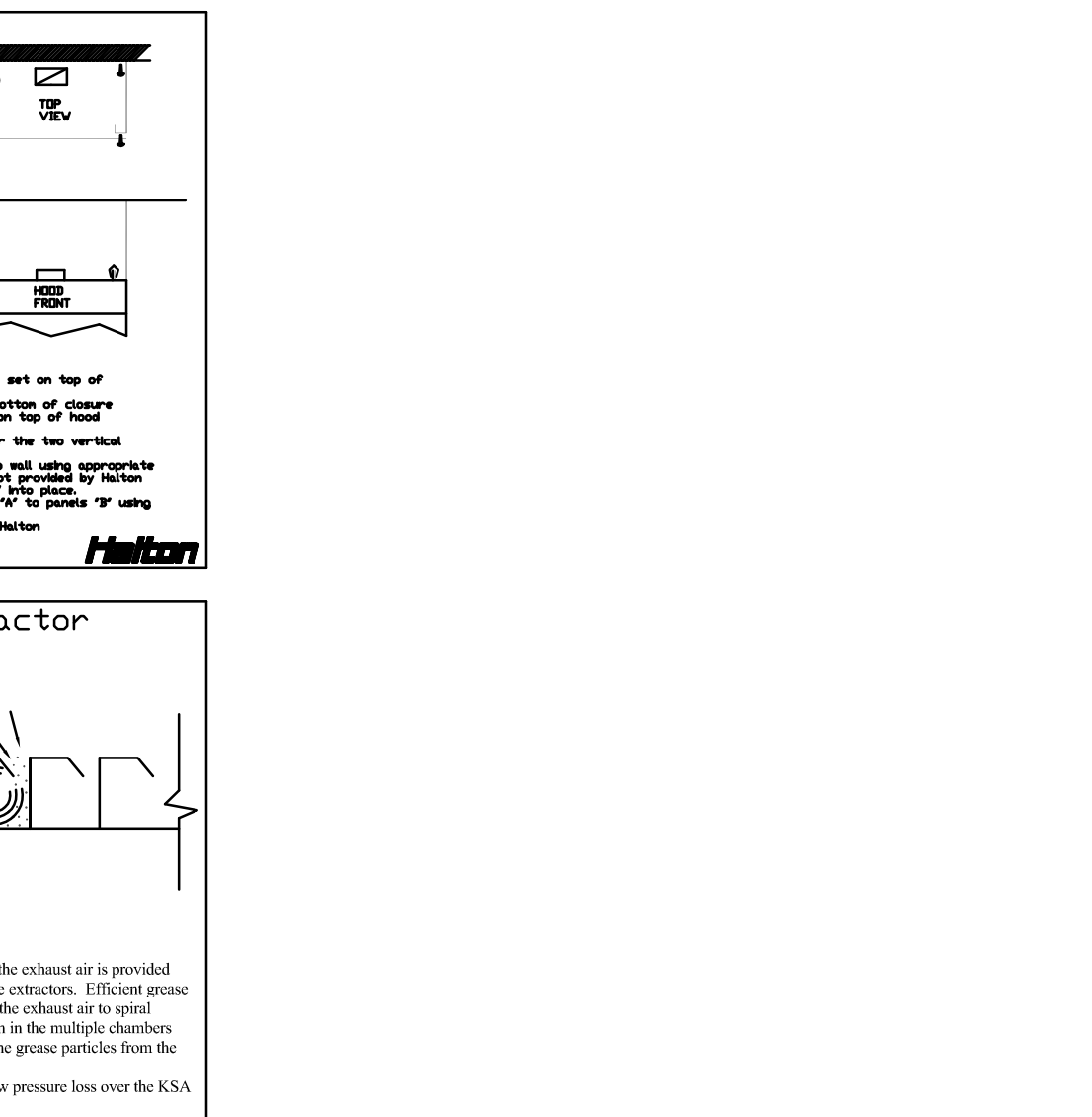
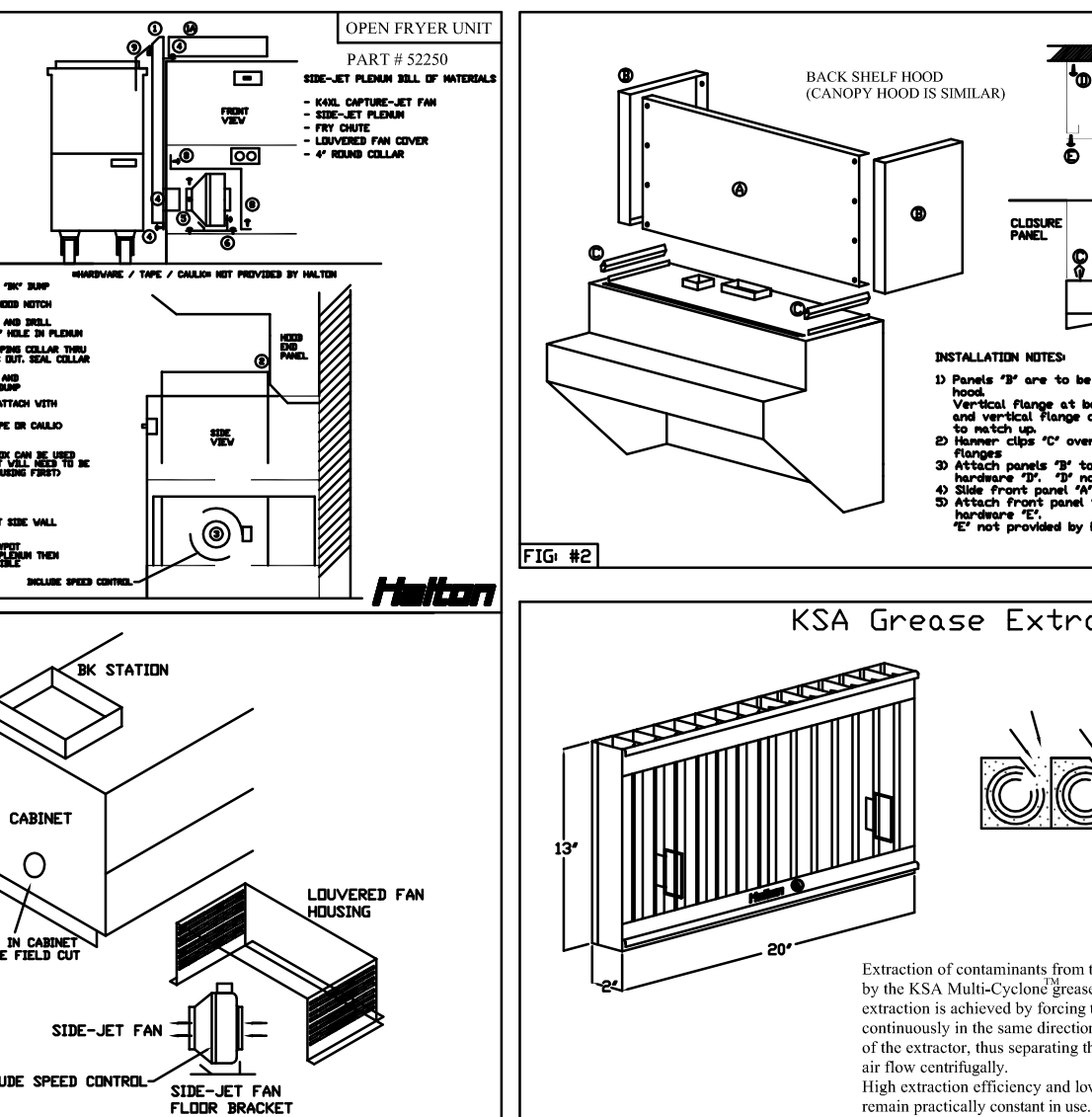




Capture-Jet Fan Installation and Dimensional Data

| MODEL | AIR FLOW @1' SP | SP | BD | BD | 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 | |
| K9XL | 100 CFM - 240 CFM | 13.20" | 9.0" | 6.0" | 20 | 1.32 | 120/1/60 | 11 | |

PROJECT: CHICK-FIL-A DATE: 09/14/10
LOCATION: DVG: U00-99-1



HALTON HOODS
- ETL LISTED PER LATEST 710 STANDARD
- BUILT PER NFPA 96
- NSF LISTED

GENERAL REQUIREMENTS
1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES.
2. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO FACE UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO FACE UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO FACE UNLESS NOTED OTHERWISE.
5. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO FACE UNLESS NOTED OTHERWISE.
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MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW: WEBSITE: WWW.HALTONCOMPANY.COM

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSDALE, KY 42164
1-270-257-5600

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

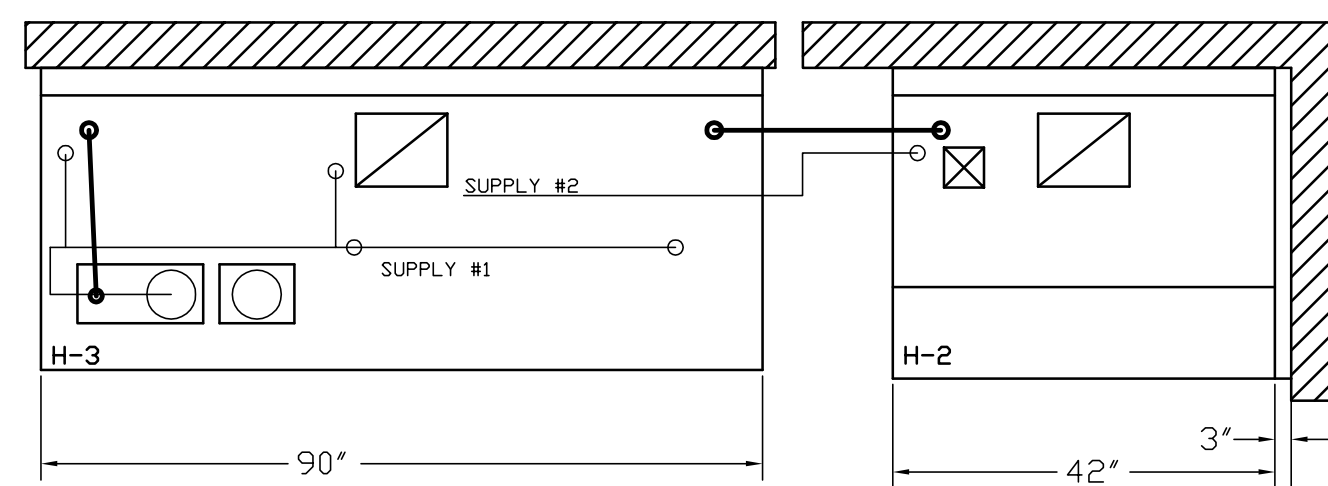
PROJECT: CFA S08 CENTERLINE
LOCATION: SLIDELL, LA (SN#2787)
DRAWN BY: DATE: 10/7/10
SCALE: NTS
Halton Dwg: U10-391-1 (PROTOTYPICAL)

REVISION DESCRIPTION

| REV. | DATE | DESCRIPTION |
|------|------|-------------|
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| 2 | | |
| 3 | | |
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| 5 | | |
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| 7 | | |

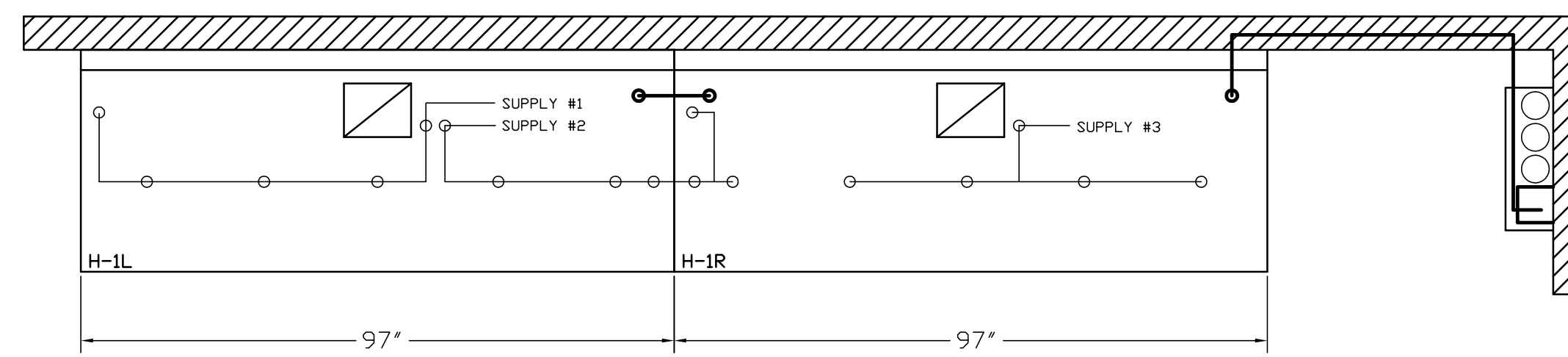
Sheet H-1.1

DATE



ANSUL R-102 FIRE SYSTEM
 A) 6 GALLON SYSTEM 2 TANKS (MOUNTED ON HOOD #H-3)
 B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

- (1) REGULATED RELEASE WITH (SINGLE TANK)
- (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
- (1) SINGLE TANK ENCLOSURE
- (2) 3 GALLON TANKS



ANSUL R-102 FIRE SYSTEM
 A) 9 GALLON SYSTEM (3 TANKS) (REMOTE MOUNTED ON WALL IN F.C.) (FOR HOODS H-1L & H-1R)
 B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

- (1) DEM REGULATED RELEASE
- (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
- (3) 3 GALLON TANKS

FUSIBLE LINK RATINGS

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

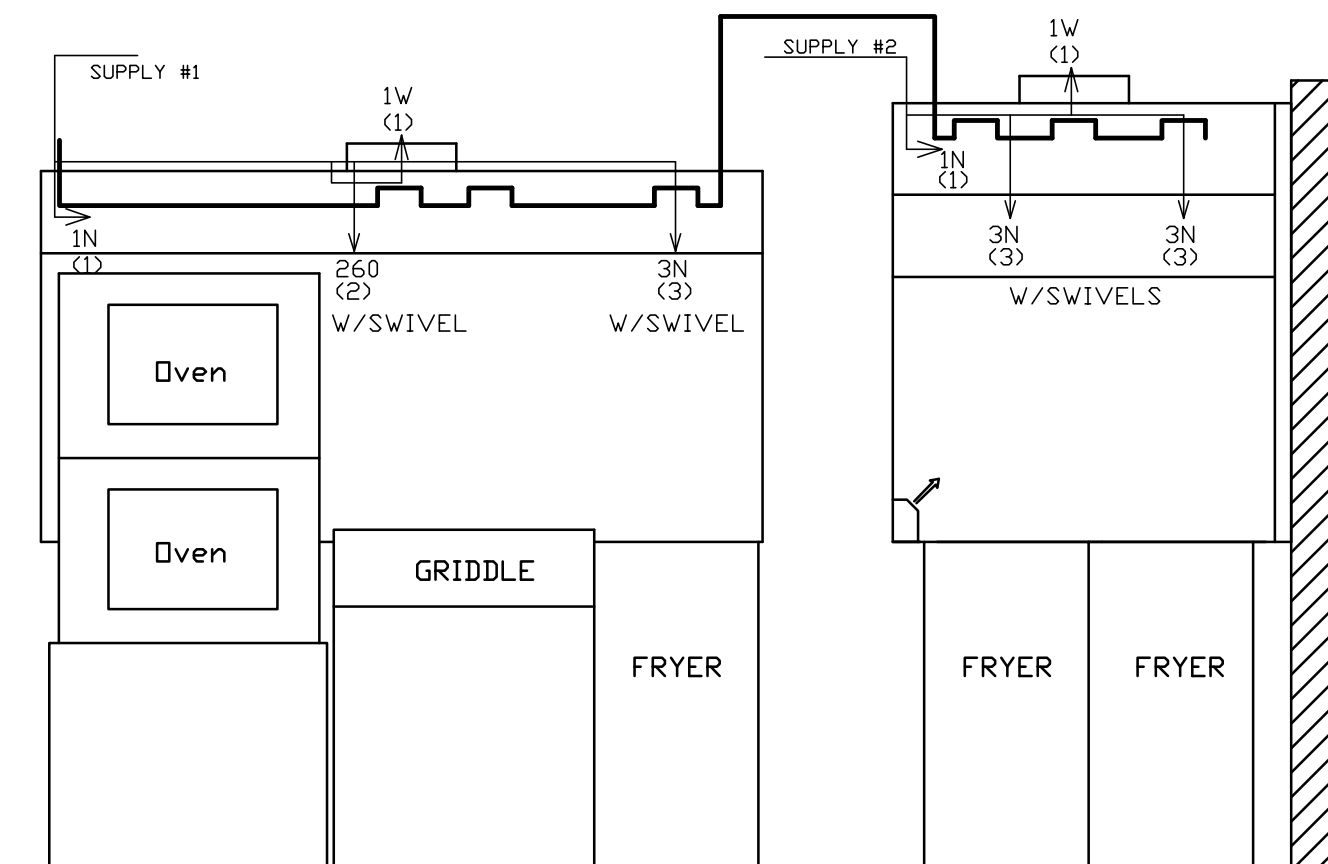
ANSUL R-102 FIRE SYSTEM NOTES
 THREE TANK SYSTEM REMOTE MOUNTED FOR (H-1)
 MAXIMUM FLOW POINTS = 33

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

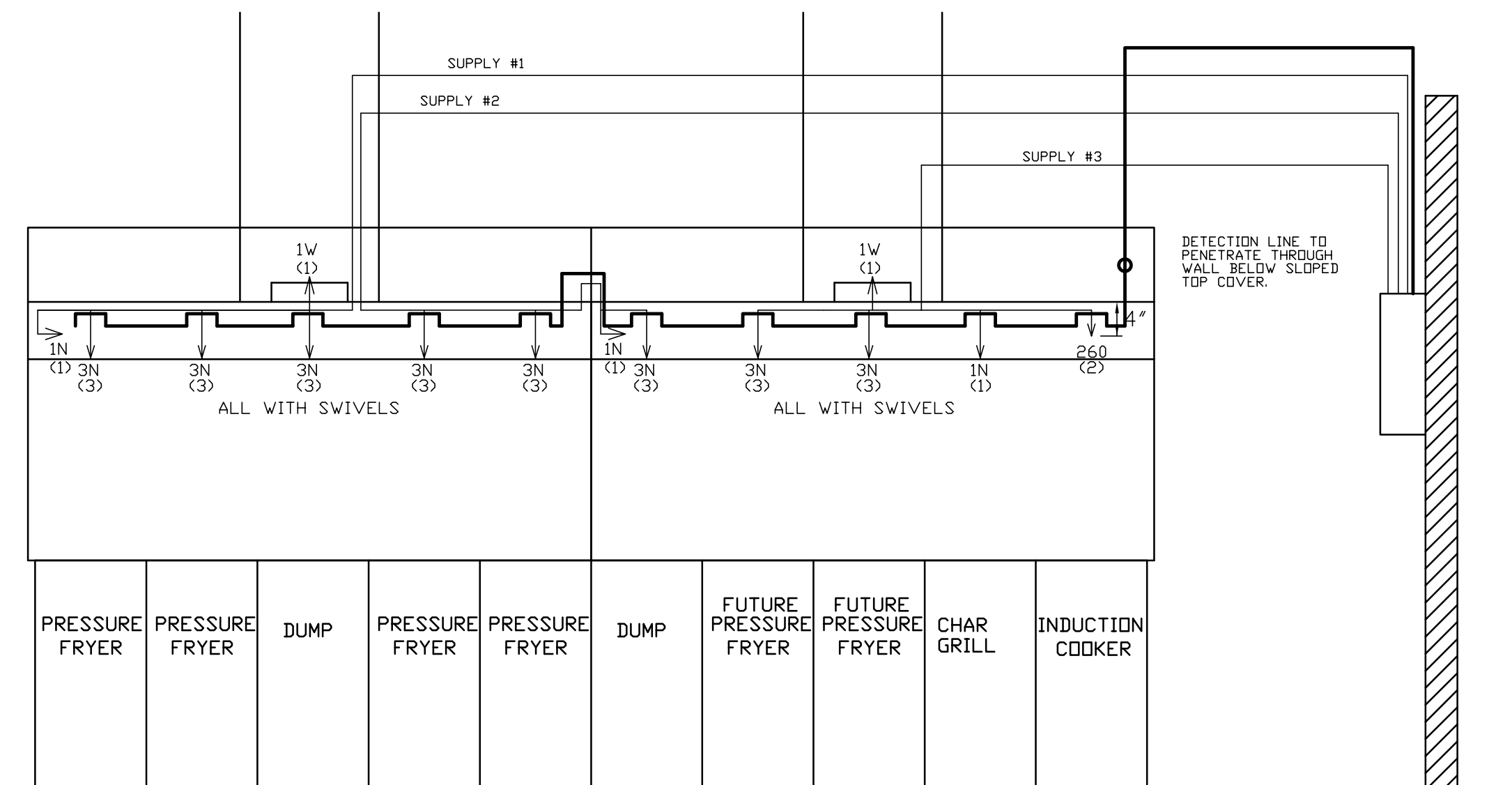
| ITEM # | QTY | DESCRIPTION | FLOW PTS (TOTAL) |
|-------------------------------|-----|-------------------|------------------|
| 1W | 4 | DUCT NOZZLES | 4 |
| 1N | 4 | PLENUM NOZZLES | 4 |
| 1N | 1 | APPLIANCE NOZZLES | 1 |
| 3N | 11 | APPLIANCE NOZZLES | 33 |
| 260 | 2 | APPLIANCE NOZZLES | 4 |
| TOTAL FLOW POINTS - 46 | | | |

| ITEM # | QTY | DESCRIPTION |
|--------|-----|--|
| #200 | 14 | SERIES DETECTORS W/ FUSIBLE LINKS |
| #201 | 2 | TERMINAL DETECTOR W/ FUSIBLE LINKS |
| #202 | 1 | 3 GALLON REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH |
| #203 | 1 | DEM REGULATED RELEASE W/ DBL POLE MICRO SWITCH |
| #204 | 3 | EXTRA 3 GALLON TANKS |
| #205 | 1 | SINGLE TANK ENCLOSURE W/ TANK |
| #206 | 2 | REMOTE PULL STATION |

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



ANSUL R-102 FIRE SYSTEM LAYOUT



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

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

NOTE TO APPROVER: COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A 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

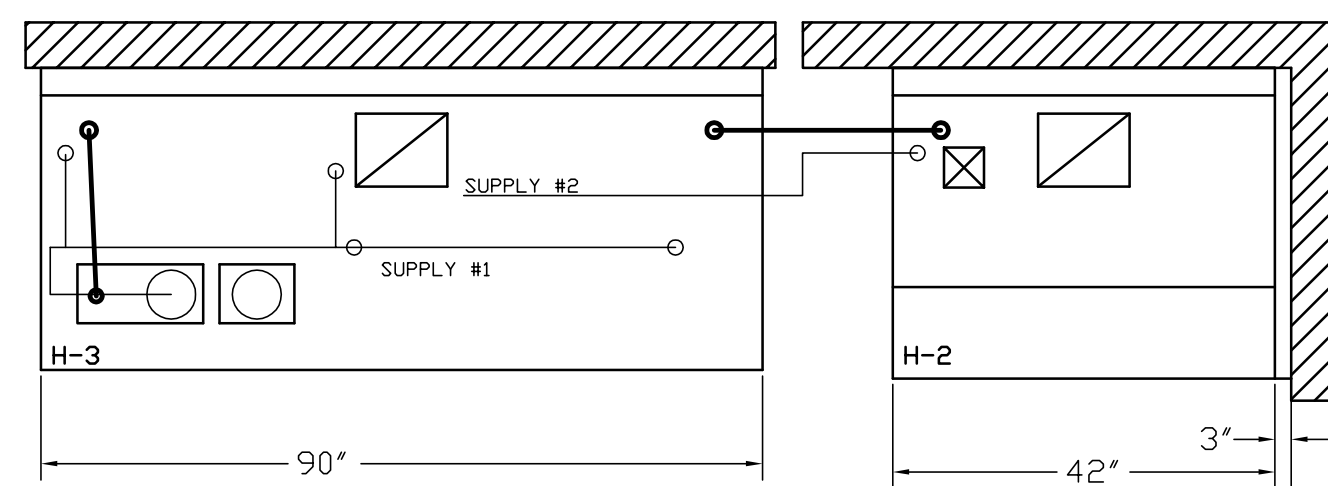
| | |
|---|---|
| HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301 | HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-257-5600 |
|---|---|

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|------|
| 1 | | | |
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PROJECT: CFA S08 CENTERLINE
 LOCATION: SLIDELL, LA (SN#2787)
 DRAWN BY: _____ DATE: 10/7/10
 SCALE: NTS
 Halton Dwg: U10-391-2 (PROTOTYPICAL)

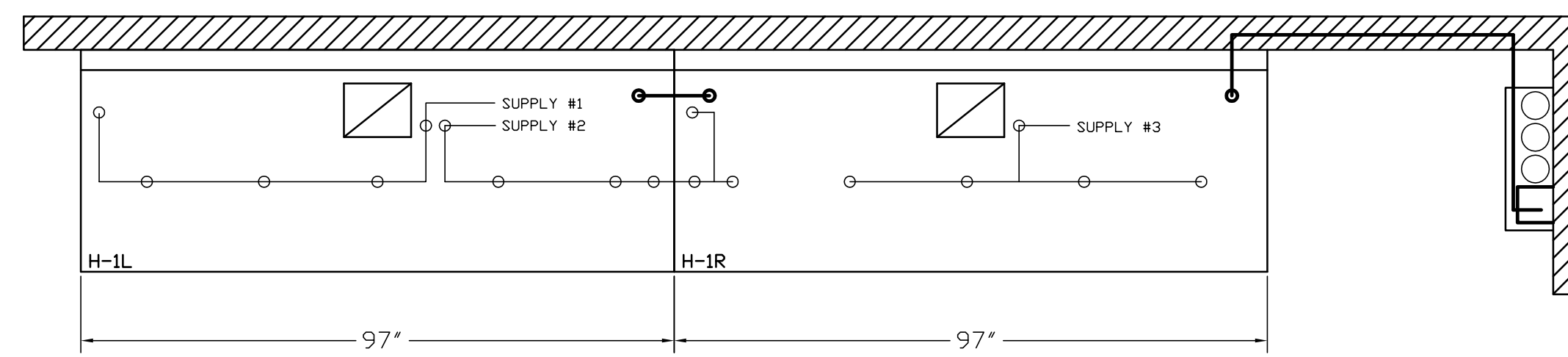
Halton
 CARE FOR INDOOR AIR

Sheet H-1.2



ANSUL R-102 FIRE SYSTEM
 A) 6 GALLON SYSTEM 2 TANKS (MOUNTED ON HOOD #H-3)
 B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

- (1) REGULATED RELEASE WITH (SINGLE TANK)
- (2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
- (1) SINGLE TANK ENCLOSURE
- (2) 3 GALLON TANKS



ANSUL R-102 FIRE SYSTEM
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FUSIBLE LINK RATINGS

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

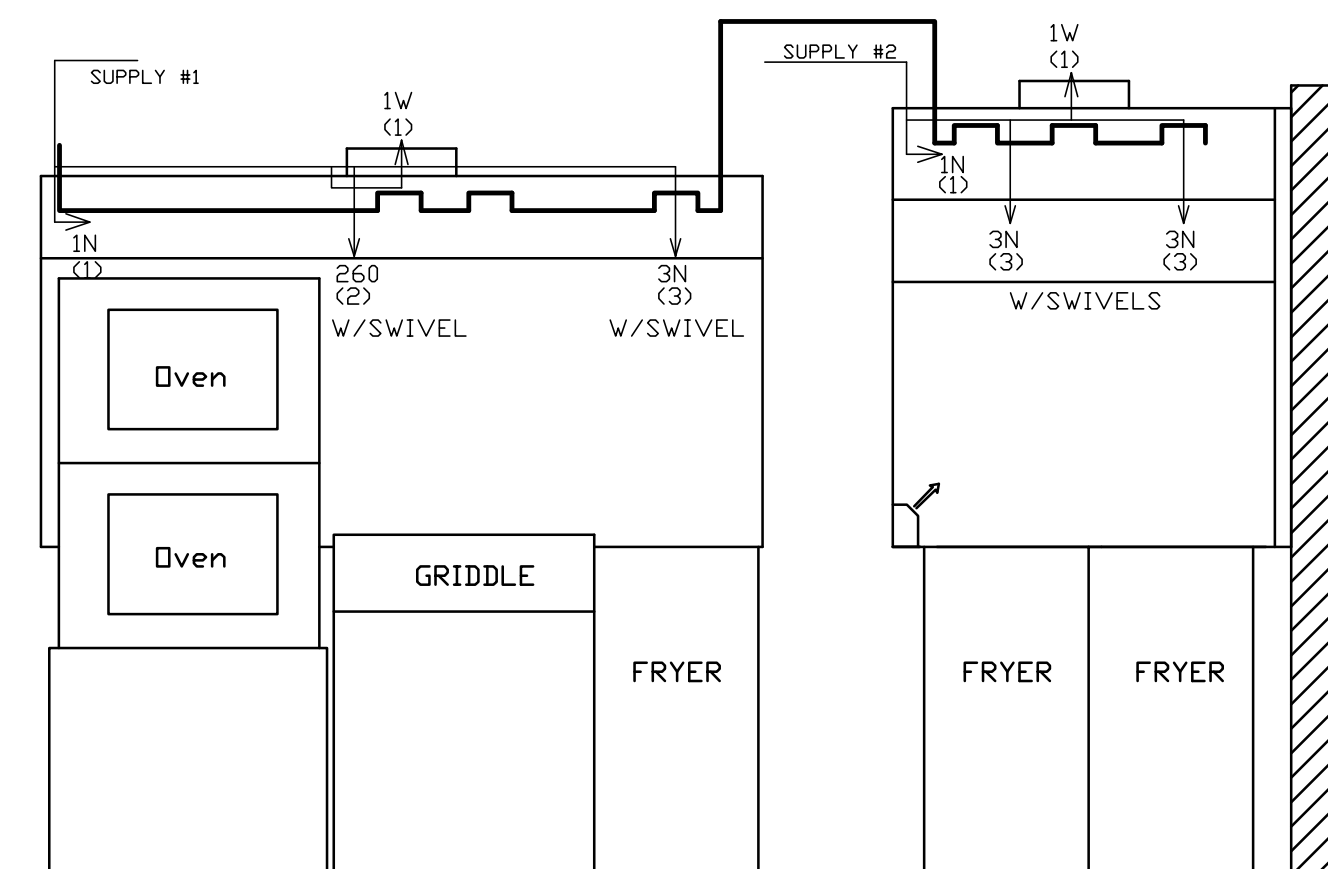
ANSUL R-102 FIRE SYSTEM NOTES
 THREE TANK SYSTEM REMOTE MOUNTED FOR (H-1)
 MAXIMUM FLOW POINTS = 33

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

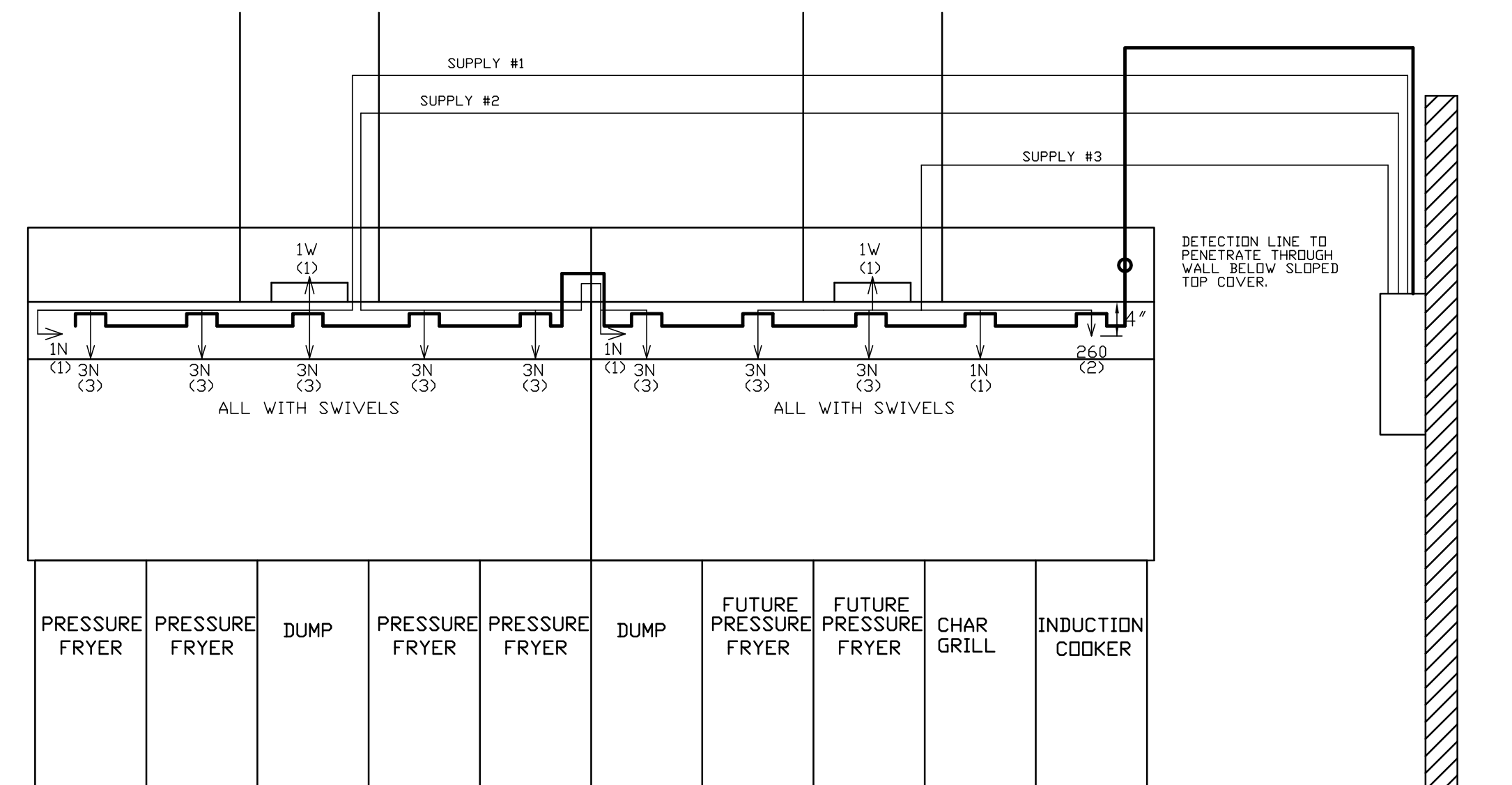
| ITEM # | QTY | DESCRIPTION | FLOW PTS (TOTAL) |
|-------------------------------|-----|-------------------|------------------|
| 1W | 4 | DUCT NOZZLES | 4 |
| 1N | 4 | PLENUM NOZZLES | 4 |
| 1N | 1 | APPLIANCE NOZZLES | 1 |
| 3N | 11 | APPLIANCE NOZZLES | 33 |
| 260 | 2 | APPLIANCE NOZZLES | 4 |
| TOTAL FLOW POINTS - 46 | | | |

| ITEM # | QTY | DESCRIPTION |
|--------|-----|--|
| #200 | 14 | SERIES DETECTORS W/ FUSIBLE LINKS |
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| #203 | 1 | DEM REGULATED RELEASE W/ DBL POLE MICRO SWITCH |
| #204 | 3 | EXTRA 3 GALLON TANKS |
| #205 | 1 | SINGLE TANK ENCLOSURE W/ TANK |
| #206 | 2 | REMOTE PULL STATION |

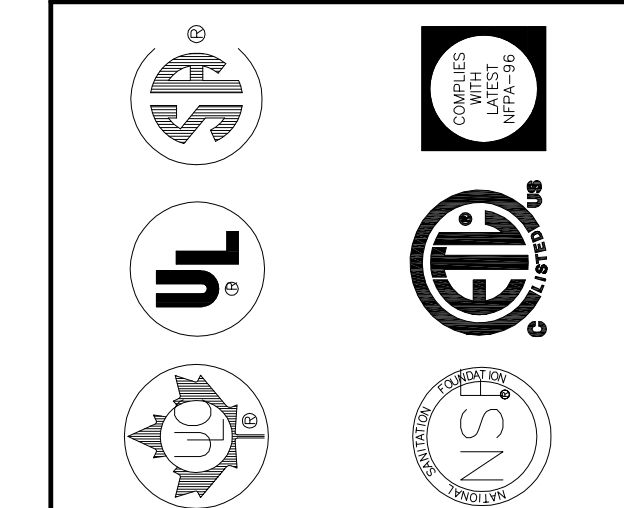
ANSUL R-102 FIRE SYSTEM
 UL LISTED PER STD LATEST STD 300
 1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICABLE CODES
 2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN.
 MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
 3. REMOTE PULL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



ANSUL R-102 FIRE SYSTEM LAYOUT



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 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. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0301 | | HALTON CO. (USA) 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-257-5600 | |
| REV. | BY | DATE | DESCRIPTION |
| 1 | | | |
| 2 | | | |
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| 5 | | | |
| 6 | | | |
| 7 | | | |

PROJECT: CFA S08 CENTERLINE
 LOCATION: SLIDELL, LA (SN#2787)
 DRAWN BY: DATE: 10/7/10
 SCALE: NTS
 Halton Dwg: U10-391-2 (PROTOTYPICAL)
Halton
 CARE FOR INDOOR AIR