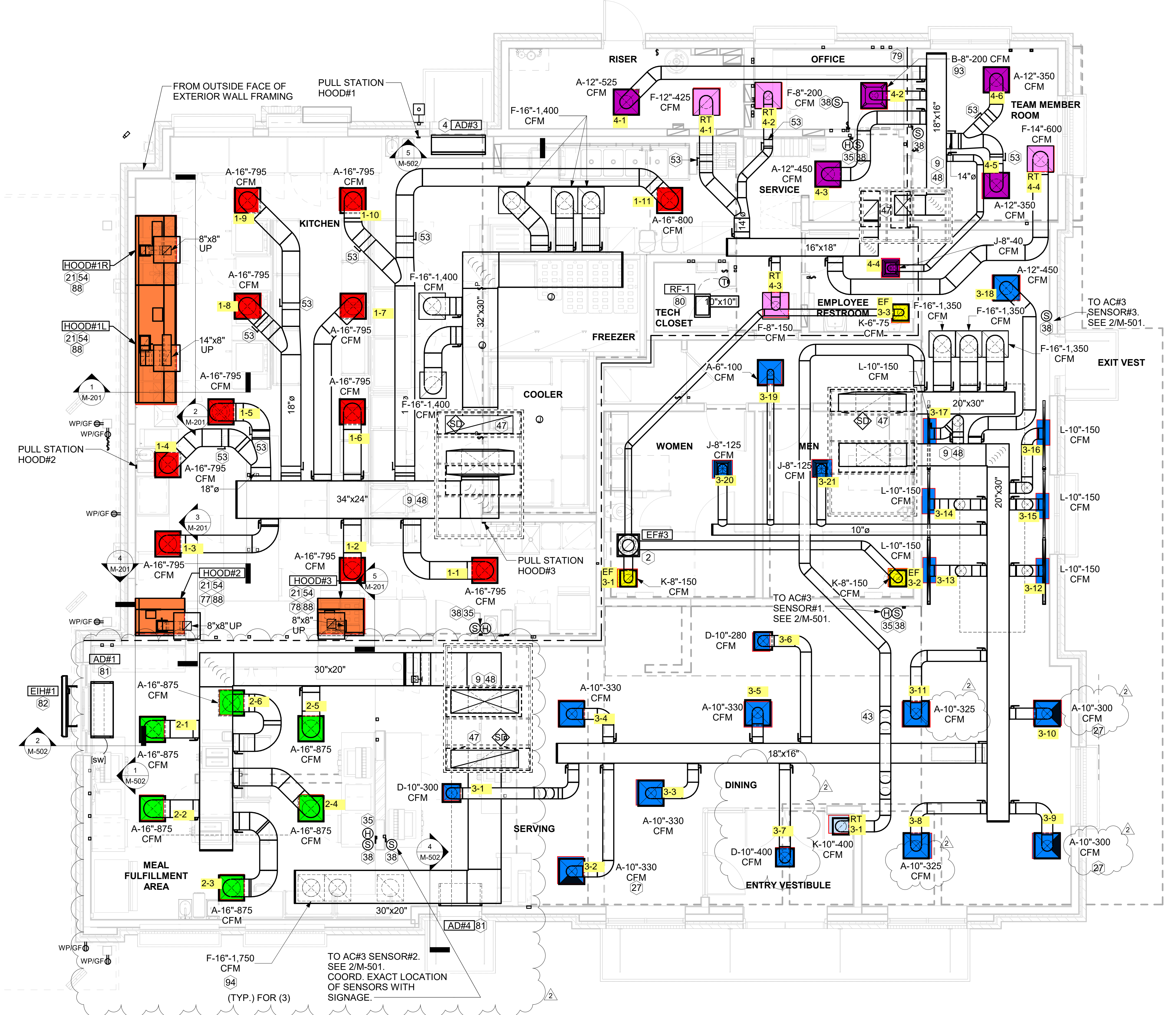
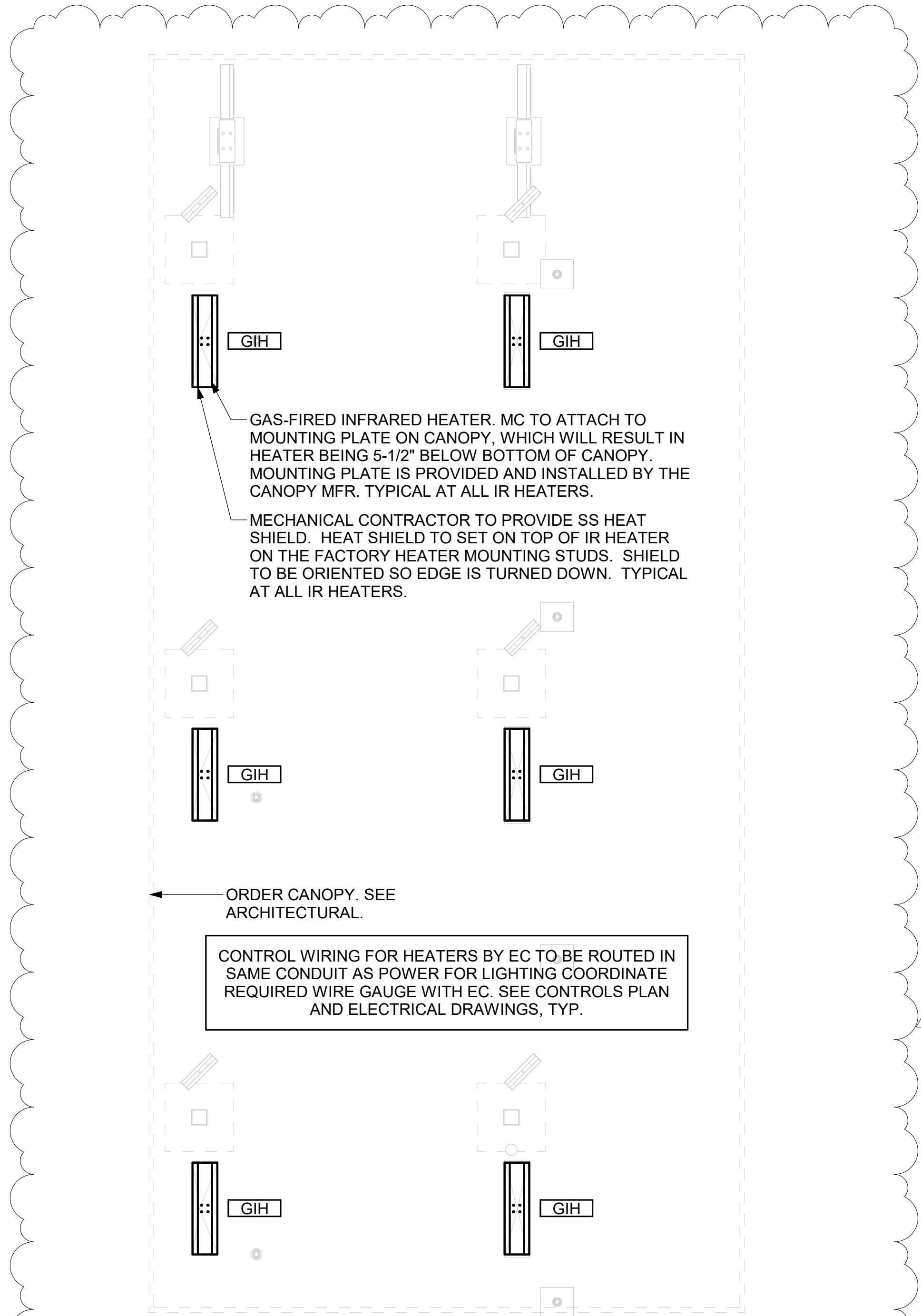


KEY NOTES

- 2 10X10 UP THRU ROOF.
- 4 AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS. LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- 9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- 21 HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-101 FOR LOCATION.
- 27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- 35 MOUNT LENNOX HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 38 MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
- 43 ROUTE DUCT WITHIN STRUCTURE.
- 47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 6/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE PROVIDED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- 48 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- 53 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
- 54 SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
- 77 INSTALL LEFT SIDE OF HOOD FLUSH WITH FINISHED EDGE OF PASS-THRU OPENING.
- 78 INSTALL RIGHT SIDE OF HOOD WITH FINISHED EDGE OF PASS-THRU OPENING.
- 79 SEAL PENETRATIONS IN SMOKE DRAFT CURTAIN AIR TIGHT. SEE ARCH PLANS FOR CONSTRUCTION.
- 80 CEILING MOUNTED RECIRCULATING FAN. DUCT AND DISCHARGE ABOVE CEILING.
- 81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
- 82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 88 PULL STATION FOR KITCHEN EXHAUST HOOD MOUNTED 42" TO 48" A.F.F. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. JUNCTION BOX AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. PROVIDE PLASTIC ENGRAVED LABEL - RED WITH 1" HIGH WHITE LETTERING. LABELS SHALL BE AS FOLLOWS: HOOD #1 - "MAIN COOKLINE", HOOD #2 - "PASS THRU - RIGHT", HOOD #3 - "PASS THRU - LEFT".
- 93 MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 25 CFM.
- 94 TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.

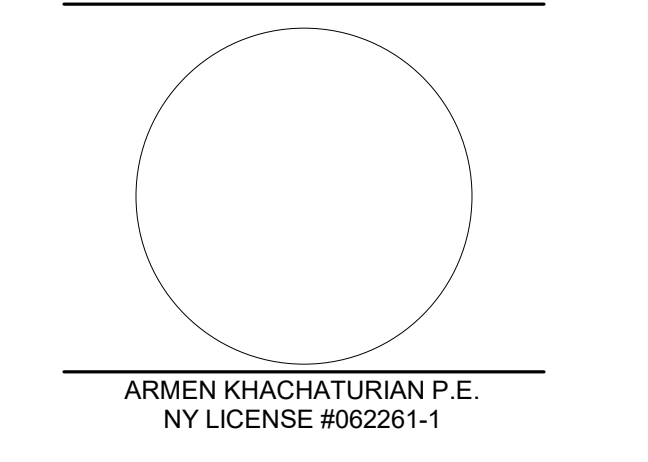


1 EQUIPMENT AND DUCTWORK PLAN
1/4" = 1'-0"



3 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"

AIR BALANCE SCHEDULE					
MARK	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE
AC#1	8750 CFM	6850 CFM	1900 CFM		
AC#2	5250 CFM	4050 CFM	1200 CFM		
AC#3	5250 CFM	4050 CFM	1200 CFM		
AC#4	1875 CFM	1375 CFM	500 CFM		
EF#1				1913 CFM	
EF#2				1402 CFM	
EF#3				375 CFM	
	TOTAL	4800 CFM	3690 CFM	1110 CFM	



CHICK-FIL-A EXPRESSWAY PLAZA
2280-2350 North Ocean Ave.
FARMINGVILLE, NY 11738

FSR#04810
BUILDING TYPE / SIZE: P14 SE BN
RELEASE: 23.02
PRINTED FOR:
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	8/4/2023	ISSUED FOR PERMIT
2	10/13/2023	OWNER CHANGES
4	3/28/2024	ISSUE FOR CONSTRUCTION

CONSULTANT PROJECT # 2636
DATE 03/28/2024
DRAWN BY MM
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SHEET EQUIPMENT AND DUCTWORK PLAN
SHEET NUMBER

For Construction -
M-101

ROOFTOP UNIT SCHEDULE - TRANE

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	SUPPLY AIRFLOW	OA	HP	ESP	EER	IEER/SEER	VOLTAGE	PHASE	MCA	MOCP	MODEL	MANUFACTURER	REMARKS
AC#1	279.4	180.8	250	202.5	8,750 CFM	1,900 CFM	3.1 hp	0.80 in-wg	9.8	13	208 V	3	125 A	150 A	YSJ300A3S	TRANE	1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
AC#2	188	120.9	250	202.5	5,250 CFM	1,200 CFM	3.1 hp	0.80 in-wg	10.8	14	208 V	3	78 A	100 A	YSJ180A3S	TRANE	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
AC#3	188	120.9	320	259.2	5,250 CFM	1,200 CFM	3.1 hp	0.80 in-wg	10.8	14	208 V	3	78 A	100 A	YSJ180A3S	TRANE	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17
AC#4	60.1	39.2	130	104	1,875 CFM	500 CFM	1 hp	0.80 in-wg	13	17.2	208 V	3	33 A	45 A	YHC067E3R	TRANE	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17

NOTES

- MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS. NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- DIFFERENTIAL ENTHALPY ECONOMIZER WITH POWER EXHAUST.
- DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC EXHAUST.
- 14" HIGH ROOF CURB.
- SEE DETAIL, 2/M-702T FOR SETTING OF CONTROL PARAMETERS BY MC.
- FACTORY INSTALLED 115V GFI SERVICE OUTLET. SEPERATE 115V CIRCUIT PROVIDED BY ELECTRICAL CONTRACTOR.
- FACTORY INSTALLED RETURN AIR SMOKE DETECTOR.
- FACTORY INSTALLED NON-FUSED DISCONNECT.
- 2" MERV 8 THROW AWAY FILTERS.
- HINGED PANELS FOR ACCESS TO FILTER(S), FAN BLOWER & MOTOR, COMPRESSOR(S) ACCESS AND CONTROLS.
- FACTORY COIL HAIL GUARD, FIELD INSTALLED.
- FRESH AIR TEMPERING KIT.
- HOT GAS DEHUMIDIFICATION OPTION WITH WALL MOUNTED HUMIDITY SENSOR.
- FACTORY INSTALLED BELT TENSIONER.
- FACTORY CONFIGURED PHASE LOSS PROTECTION.
- FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
- FACTORY STAINLESS STEEL HEAT EXHANGER.
- 100K SCCR RATING.

EXHAUST FAN SCHEDULE

MARK	FAN CFM	ESP	RPM	TIP SPEED	HP	AREA SERVED	VOLTAGE	PHASE	MOCP	MODEL	MANUFACTURER	REMARKS
EF#1	1,913 CFM	0.75 in-wg	1,331 RPM	5,226 FPM	0.75 hp	HOOD#1	120 V	1	25 A	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11
EF#2	1,402 CFM	0.95 in-wg	1,199 RPM	4,708 FPM	0.75 hp	HOOD#2 & HOOD#3	120 V	1	25 A	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11
EF#3	375 CFM	0.38 in-wg	1,550 RPM	3,091 FPM	0.125 hp	RESTROOMS	120 V	1	20 A	ACED-90C15DH	LOREN COOK	3,11,12,13,14,15,16

NOTES

- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE U.L. 762 LISTED.
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- UPBLAST, ARRANGEMENT 10, CCW ROTATION. SEE PLANS TO CONFIRM CONFIGURATION.
- FACTORY ALUMINUM FAN WHEEL.
- FACTORY INSTALLED PREWIRED NON-FUSED DISCONNECT.
- FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE.
- INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
- FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
- FACTORY DRAIN CONNECTION.
- FACTORY BOLTED ACCESS DOOR ON SCROLL.
- FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT..
- FACTORY STEEL OUTLET COMPANION FLANGE.
- INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
- BIRDSCREEN.
- BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 5/M-501.
- STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
- 12" HIGH CURB.
- FACTORY INSTALLED AND WIRED SPEED CONTROLLER.

HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1,204 CFM	0.13"	80 @ 0.30"	BACKSHELF	14"x8"	107"	37"	38"	HALTON	KVL-2 IC	1, 2, 3, 4, 5, 7, 8, 9, 12, 16, 21, 23
HOOD#1R	709 CFM	0.13"	47 @ 0.30"	BACKSHELF	8"x8"	63"	37"	38"	HALTON	KVL-2 IC	1, 2, 3, 5, 7, 8, 9, 12, 20, 21, 22
HOOD#2	701 CFM	.30"	30 @ 0.29"	BACKSHELF	8"x8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 6, 7, 8, 9, 13, 15, 16, 18, 21
HOOD#3	701 CFM	.30"	30 @ 0.29"	BACKSHELF	8"x8"	42"	34"	38"	HALTON	KVL-C-IC	1, 2, 3, 4, 6, 7, 8, 9, 13, 17, 21

NOTES

DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS). NATIONAL ACCOUNTS - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- STAINLESS STEEL CONSTRUCTION.
- PROVIDE FULL HEIGHT SS CLOSURE PANEL WITH ACCESS PANEL IN FRONT LARGE ENOUGH TO REMOVE CAPTURE JET FAN, FIRE SUPPRESSION COMPONENTS, AND/OR TO ACCESS KBD EQUALIZER JACK SCREW.
- PRE-PIPED FIRE SUPPRESSION SYSTEM.
- FIRE SUPPRESSION CABINET AND COMPONENTS ABOVE HOOD ON LEFT SIDE.
- 3" ZERO CLEARANCE TO COMBUSTIBLE BACK SPACER.
- 3" ZERO CLEARANCE TO COMBUSTIBLE CUSTOM BACK SPACER TO ACCOMMODATE PIN AND SLEEVE ELECTRICAL BOX.
- EQUIPMENT I.D. LABELS LOCATED ON FRONT LEADING EDGE OF HOOD.
- FACTORY WALL MOUNTING ANGLE AT TOP OF HOOD.
- INTEGRAL CAPTURE JET FAN.
- NOT USED.
- NOT USED.
- NOT USED.
- PIN AND SLEEVE ELECTRICAL BOX (DOUBLE CONNECTION). SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- NOT USED.
- 3" ZERO CLEARANCE TO COMBUSTIBLE RIGHT SIDE SPACER.
- NOTCHED LEFT END SIDE PANEL.
- NOTCHED RIGHT END SIDE PANEL.
- 3"x3" HORIZONTAL AND VERTICAL TRIM ANGLE FOR RIGHT SIDE OF HOOD TO FINISH OFF GAP AT WALL.
- FULL LEFT END SIDE PANEL.
- FULL RIGHT END SIDE PANEL.
- HALTON KBD EQUALIZER.
- CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT.
- CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT.

ELECTRIC HEATER SCHEDULE

MARK	HEATING INPUT	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	VOLTAGE	PHASE	MOCP	MODEL	PART NUMBER	MANUFACTURER
EIH#1	6 KW	56"	8.5"	3.5"	WALL BRACKET	240 V	1	40 A	6000W	BH0420035	BROMIC

NOTES

- NATIONAL ACCOUNT NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

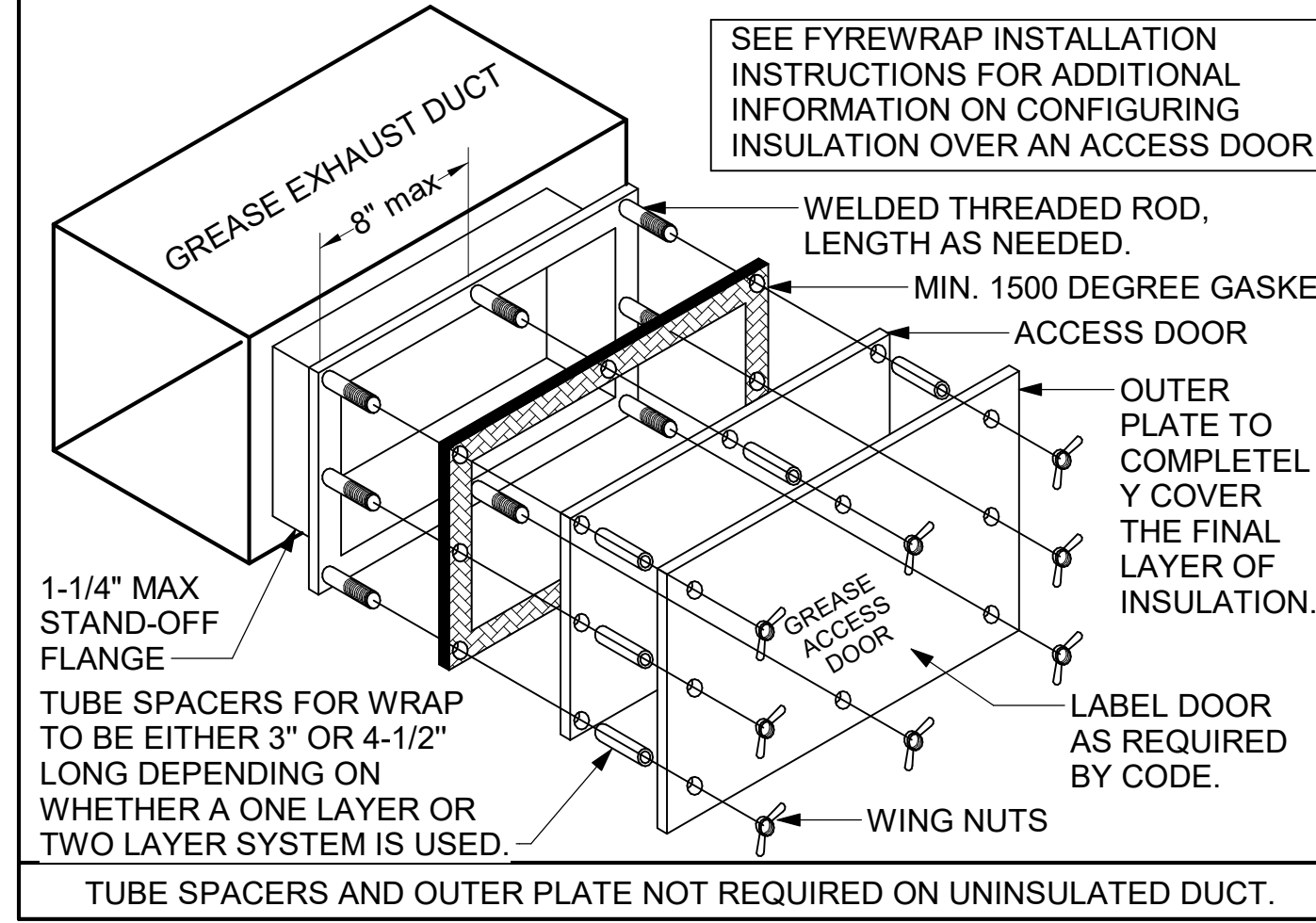
REMARKS

- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
- PROVIDE BLACK HEATER WITH HIGH TEMPERATURE COATING, AND MANUFACTURER MOUNTING BRACKETS.
- PROVIDE BROMIC WALL MOUNTED ELECTRIC HEATER MODEL: BH0420033 FOR 220-240V SITES.

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	9H X 14W	11H X 16W	1
B	5.5H X 14W	7.5H X 16W	1
C	12H X 12W	14H X 14W	1
D	10H X 14W	12H X 16W	1
E	6H X 14W	8H X 16W	1

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



AIR DOOR SCHEDULE

MARK	CFM	VELOCITY (FPM)	HEATING (KW)	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1,543	2,338	10	3/4	DRIVE THRU	CHA-1-48E	POWERED AIRE	1, 2, 3, 5
AD#3	3,867	4,218	0	3/4	REAR DOOR	RBT-1-48	POWERED AIRE	4
AD#4	1,197	2,443	10	3/4	SERVING	CHA-1-36E	POWERED AIRE	1, 2, 3

NOTES

- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004

REMARKS

- FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER ABOVE CEILING.
- FACTORY WIRED DISCONNECT.
- FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
- FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
- PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.

GAS FIRED INFRARED HEATER SCHEDULE

MARK	INPUT (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	MODEL	MANUFACTURER
GIH	50	48"	13"	9.5"	Bracket	WB-N7-CM	SPACE-RAY

NOTES

- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.
- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

- STEEL BURNER WITH CERAMIC BURNER TILES.
- STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
- PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" LATERALLY FROM THE LONG SIDE OF THE HEATER.
- STAINLESS STEEL HEAT SHIELDS PROVIDED BY SPACE-RAY PACKAGE.

RECIRCULATING FAN SCHEDULE

MARK	CFM	ESP	RPM	HP	Area Served	MODEL	MANUFACTURER	REMARKS
RF-1	450 CFM	0.3	1144	58 W	TECH CLOSET	GCVF-700	LOREN COOK	1,2,3

NOTES

- NATIONAL ACCOUNT - NO SUBSTITUTIONS PERMITTED - SEE DRAWING G-004.

REMARKS

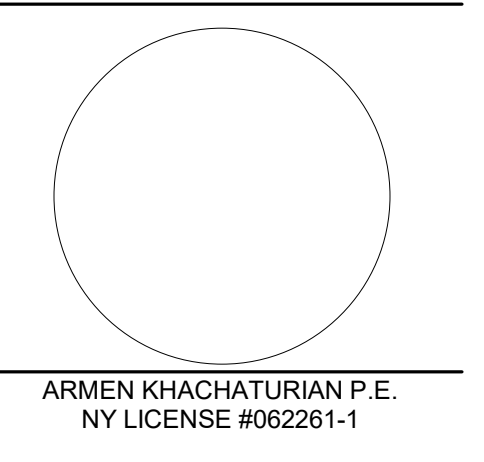
- PROVIDE NEMA 1 PREWIRED DISCONNECT.
- INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
- PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F.



Chick-Fil-A

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

KEAO
ENGINEERS
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186 WOOD AVE. SOUTH, 1ST FLOOR
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ARMEN KHACHATOURIAN P.E.
NY LICENSE #062291-1

CHICK-FIL-A
EXPRESSWAY PLAZA
2280-2350 North Ocean Ave.
FARMINGVILLE, NY 11738

FSR#04810
BUILDING TYPE / SIZE: P14 SE BN
RELEASE: 23.02
PRINTED FOR:
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	8/4/2023	ISSUED FOR PERMIT
2	10/13/2023	OWNER CHANGES
4	3/28/2024	ISSUE FOR CONSTRUCTION

For Construction

CONSULTANT PROJECT # 2636
DATE 03/28/2024
DRAWN BY MM
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EQUIPMENT SCHEDULES
SHEET NUMBER

MODEL: KVL-2-1C

STANDARD FEATURES

- S.S. FILTERS (KSA) 3
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 3

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED W/D EXHAUST DAMPER
- CEILING CLOSURE 2
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

COMMENTS

CLOSURE HEIGHT = 61" (TWO SIDED)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-1L **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-1R **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-2 **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-3 **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

MODEL: KVL-2-1C

STANDARD FEATURES

- S.S. FILTERS (KSA) 3
- 1/2 S.S. FILTERS (KSA) 1
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 2

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED W/D EXHAUST DAMPER
- CEILING CLOSURE 2
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

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PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-2 **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-3 **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

MODEL: KVL-C-1C

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED W/D EXHAUST DAMPER
- CEILING CLOSURE 2
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

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PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-3 **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

MODEL: KVL-C-1C

STANDARD FEATURES

- S.S. FILTERS (KSA) 2
- CAPTURE-JET 1
- STAND-OFF 1
- L.E.D. LIGHTS 1

OPTIONS

- REMOTE SWITCH PANEL
- FIRE PROTECTION
- ETL LISTED W/D EXHAUST DAMPER
- CEILING CLOSURE 3
- STD. BACKSPASH
- INSULATED BACKSPASH
- KBD DAMPER

MATERIAL

EXPOSED SURFACES 18 GA. S.S.

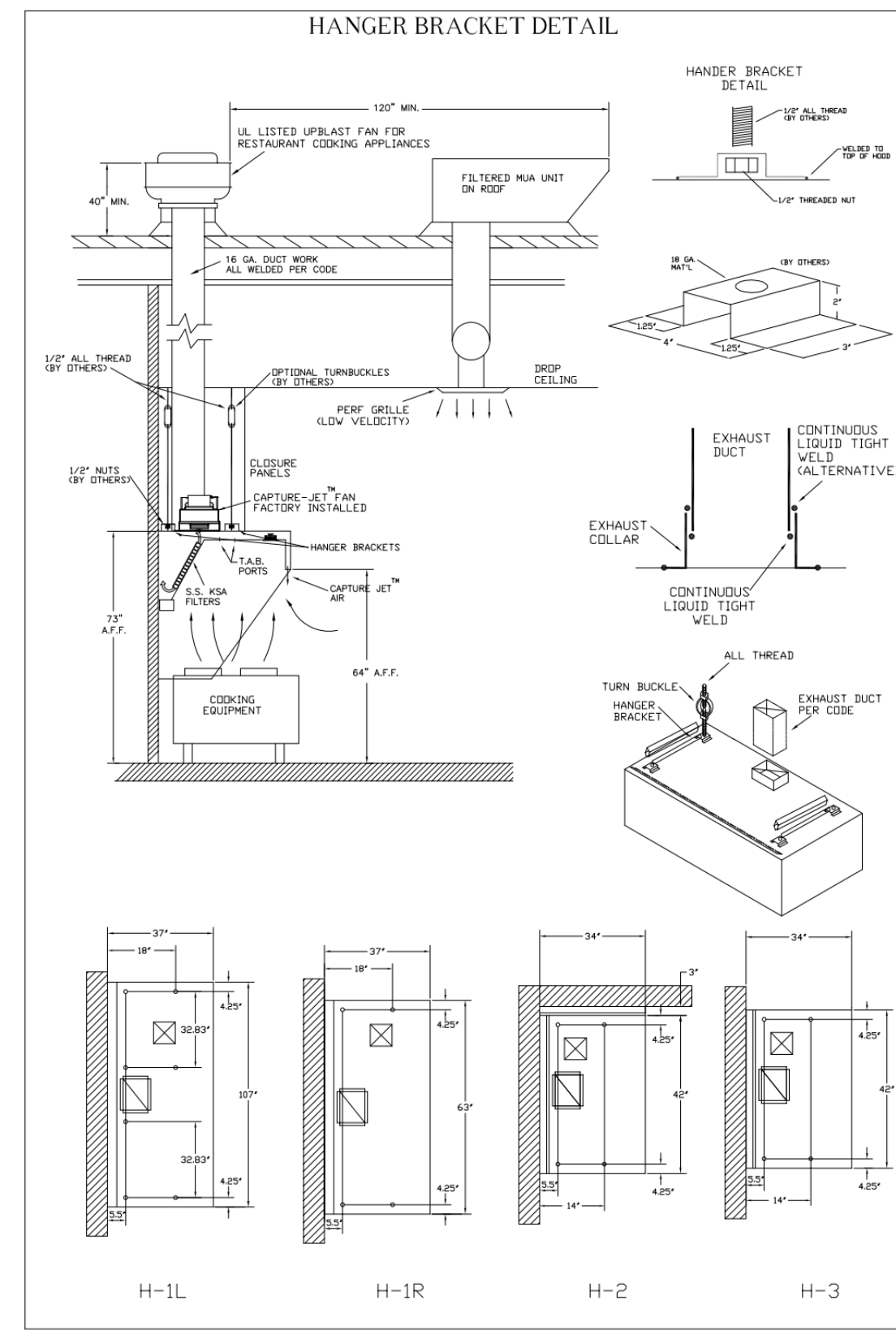
COMMENTS

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CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF

DATE: 08/09/22 **DWG. NO.:** U22-606-01 **ITEM NO.:** H-3 **EXHAUST AIR INFORMATION:** CFM TAB SP

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---



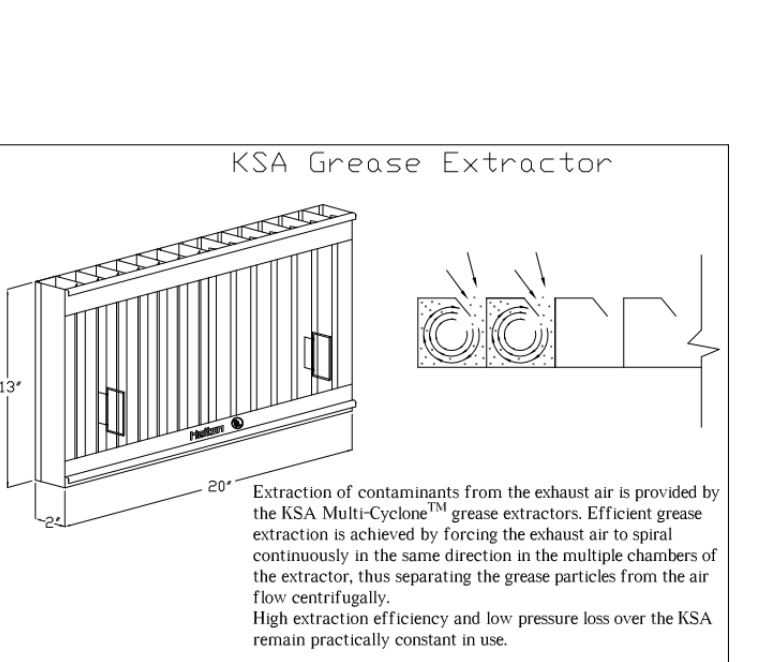
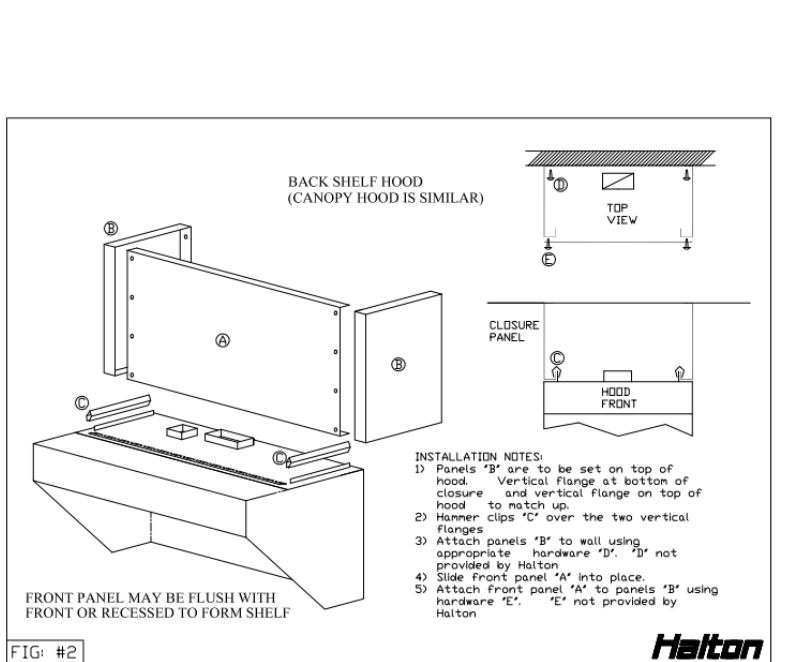
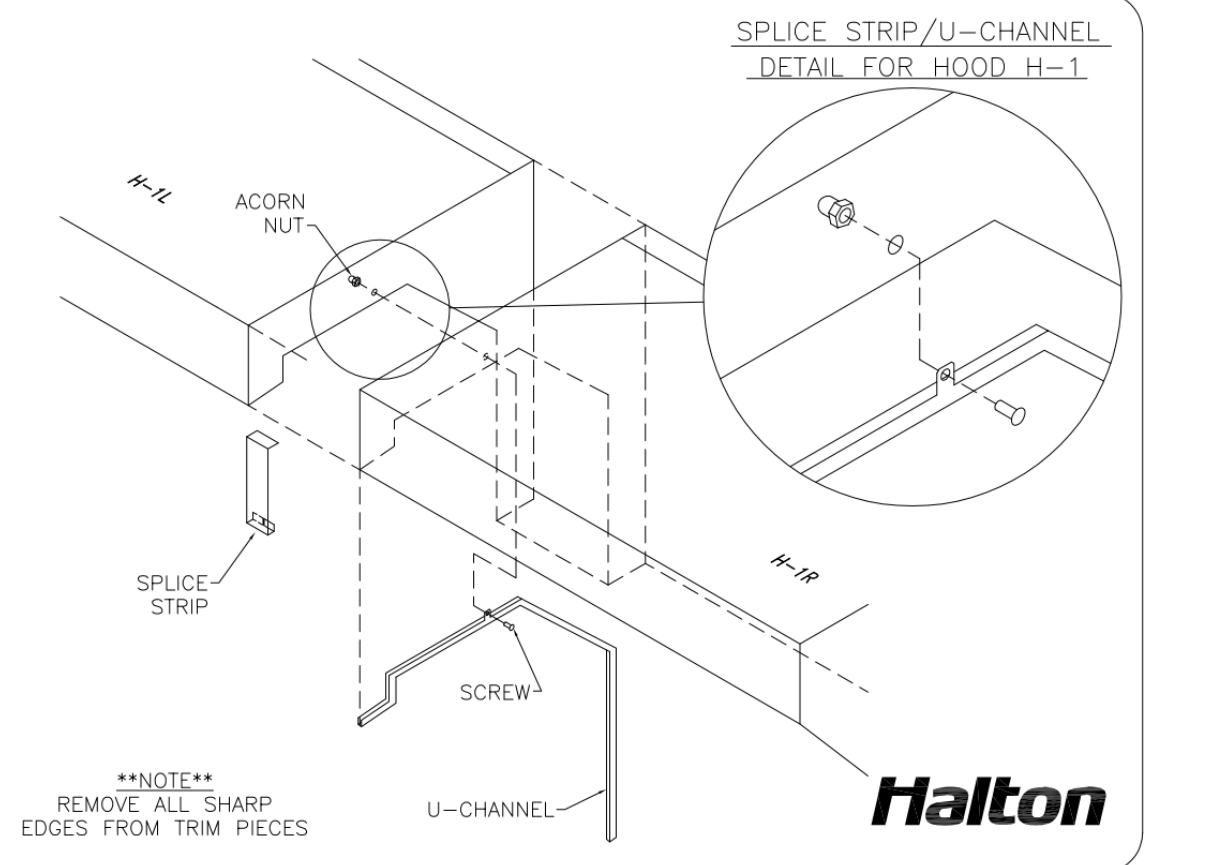
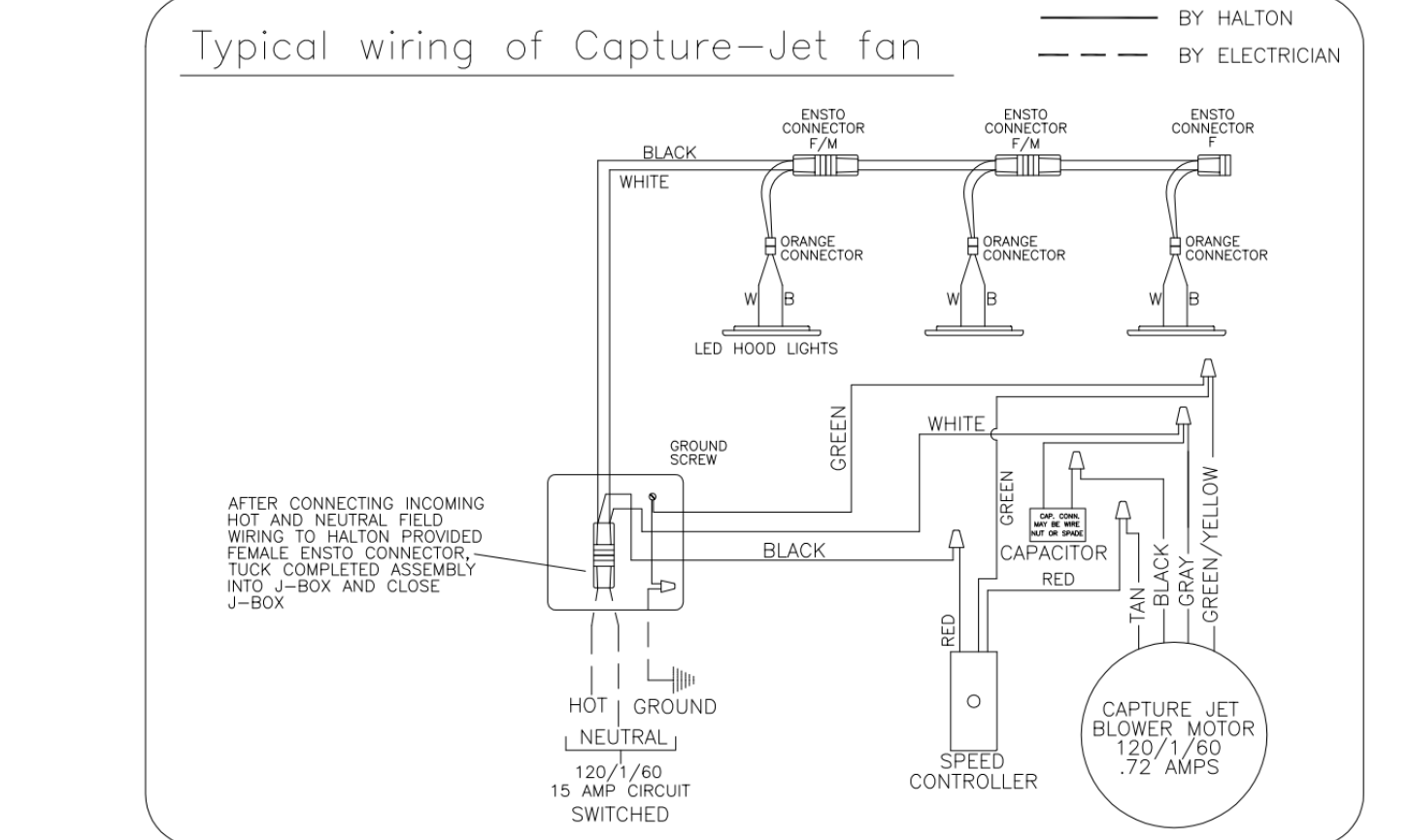
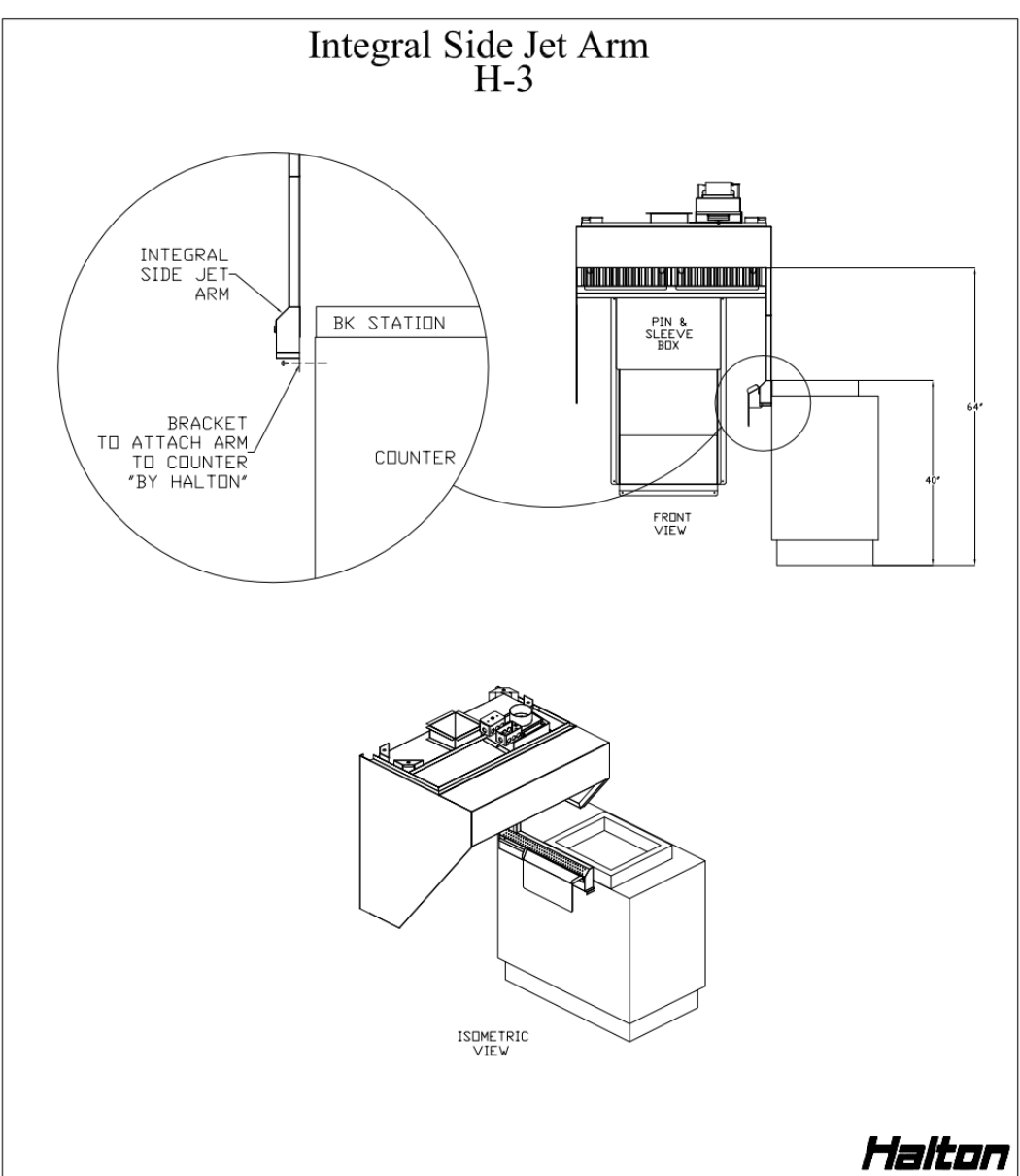
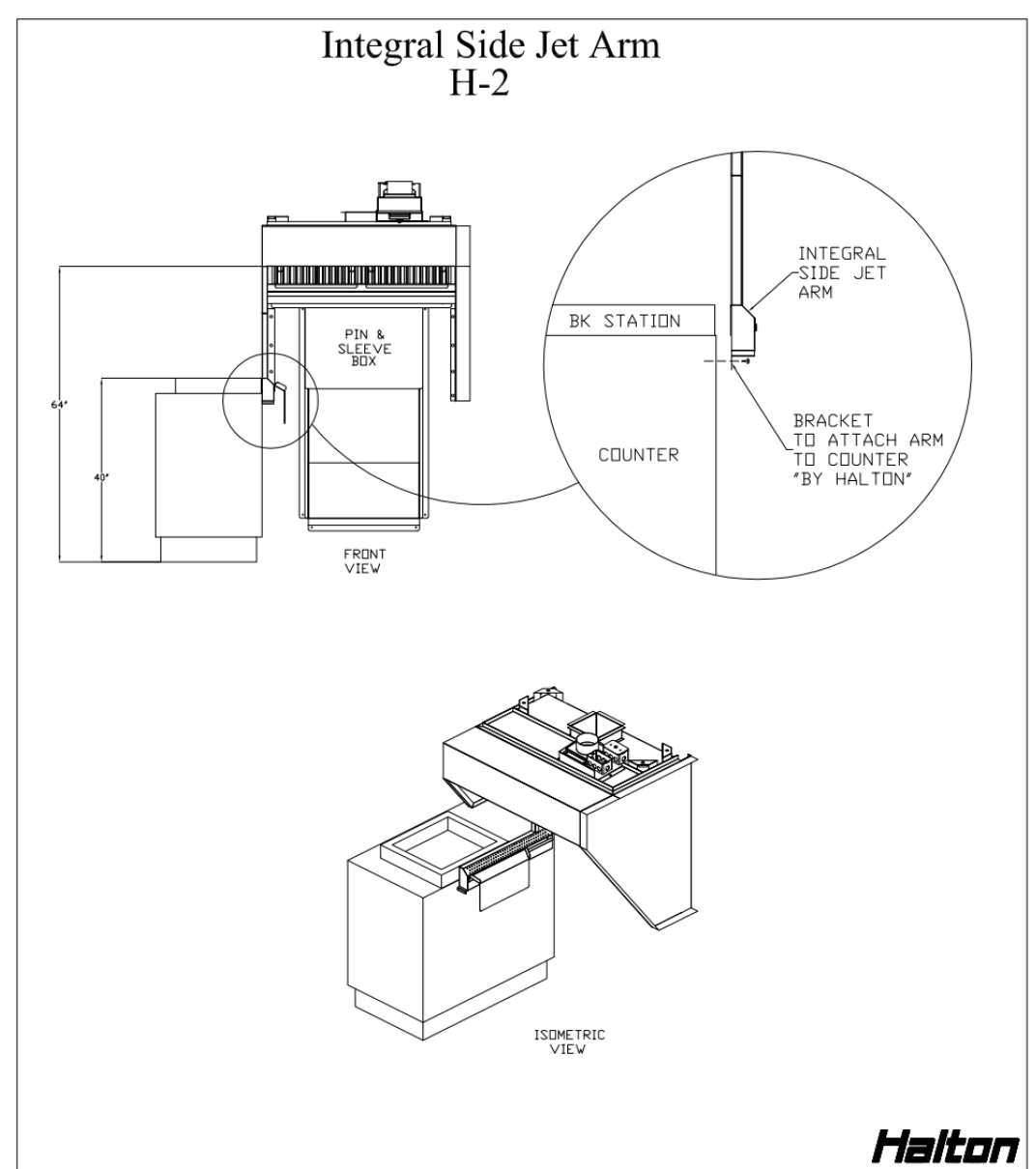
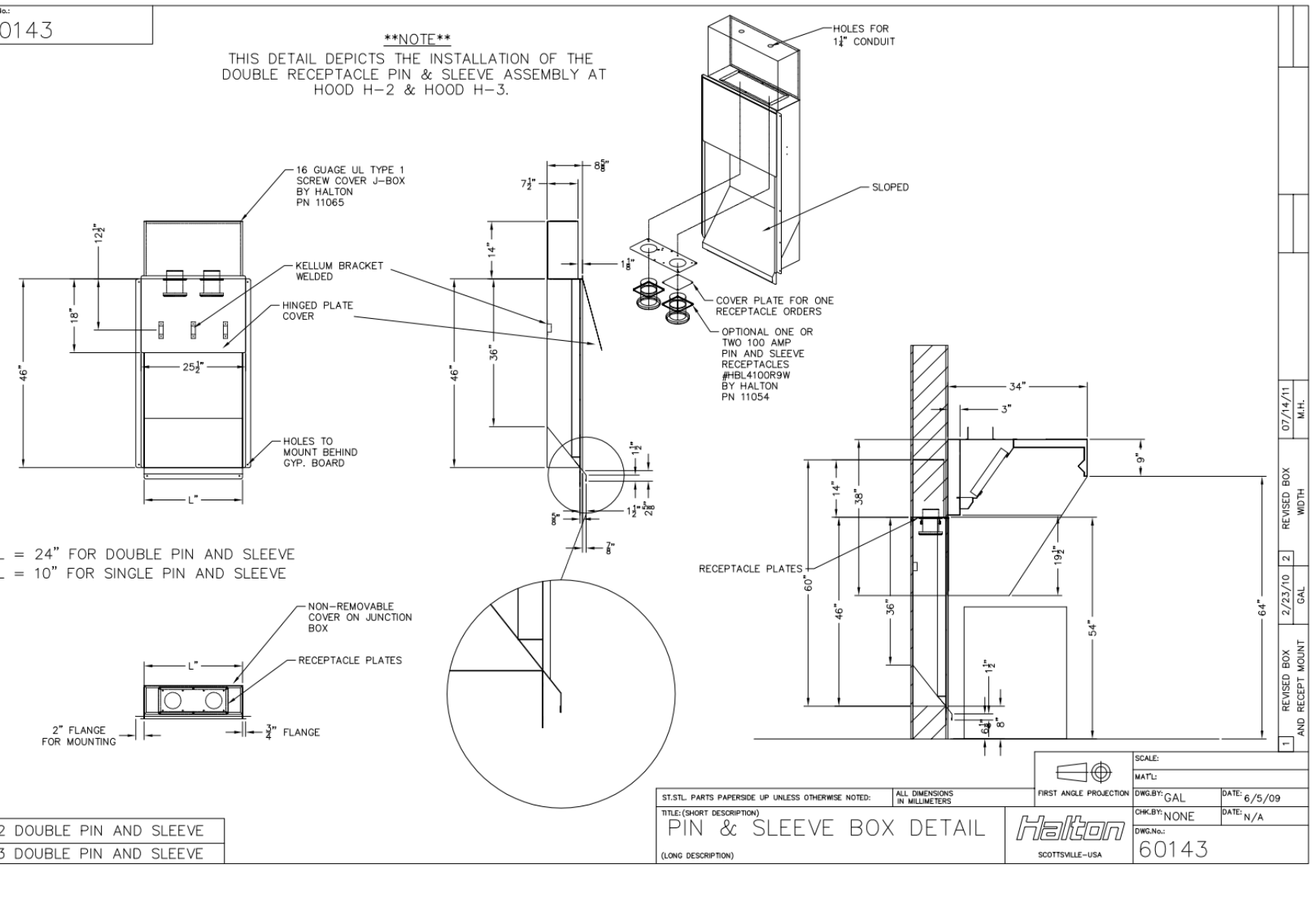
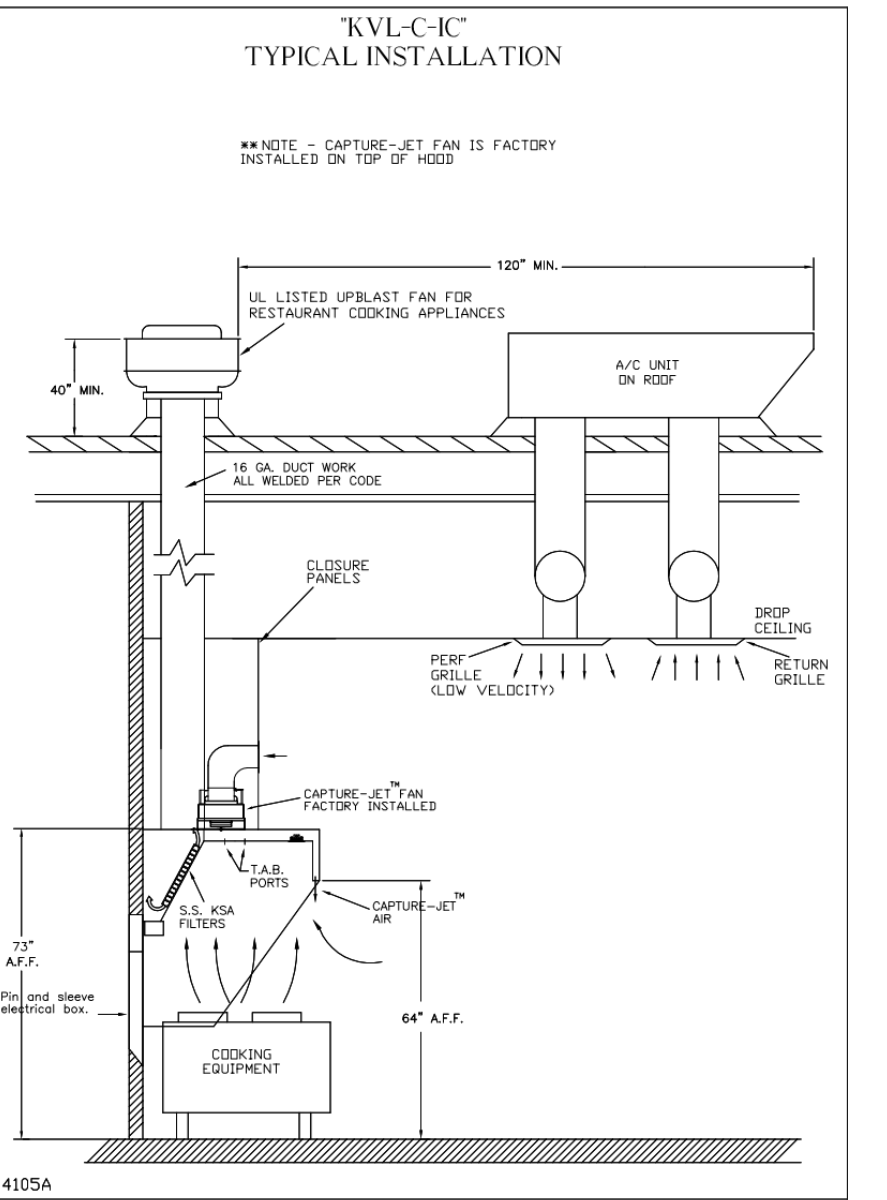
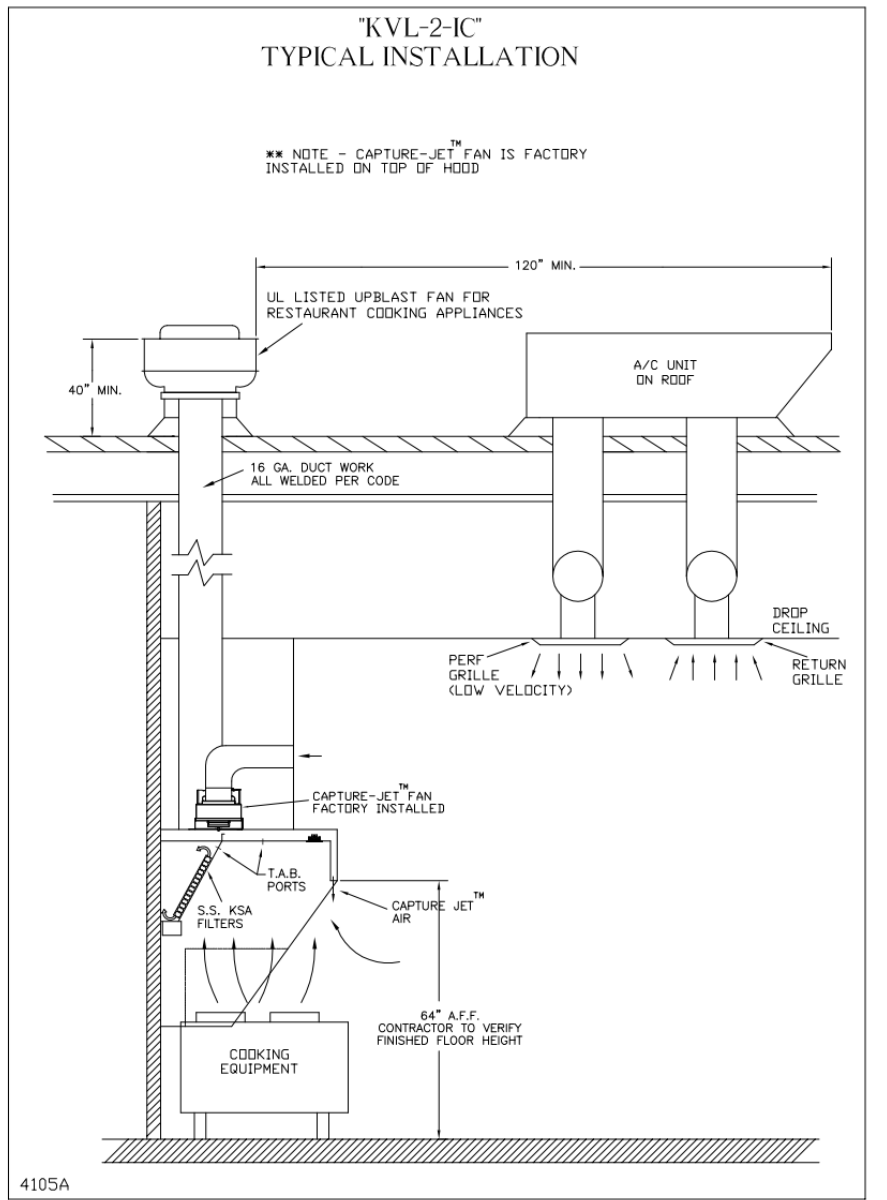
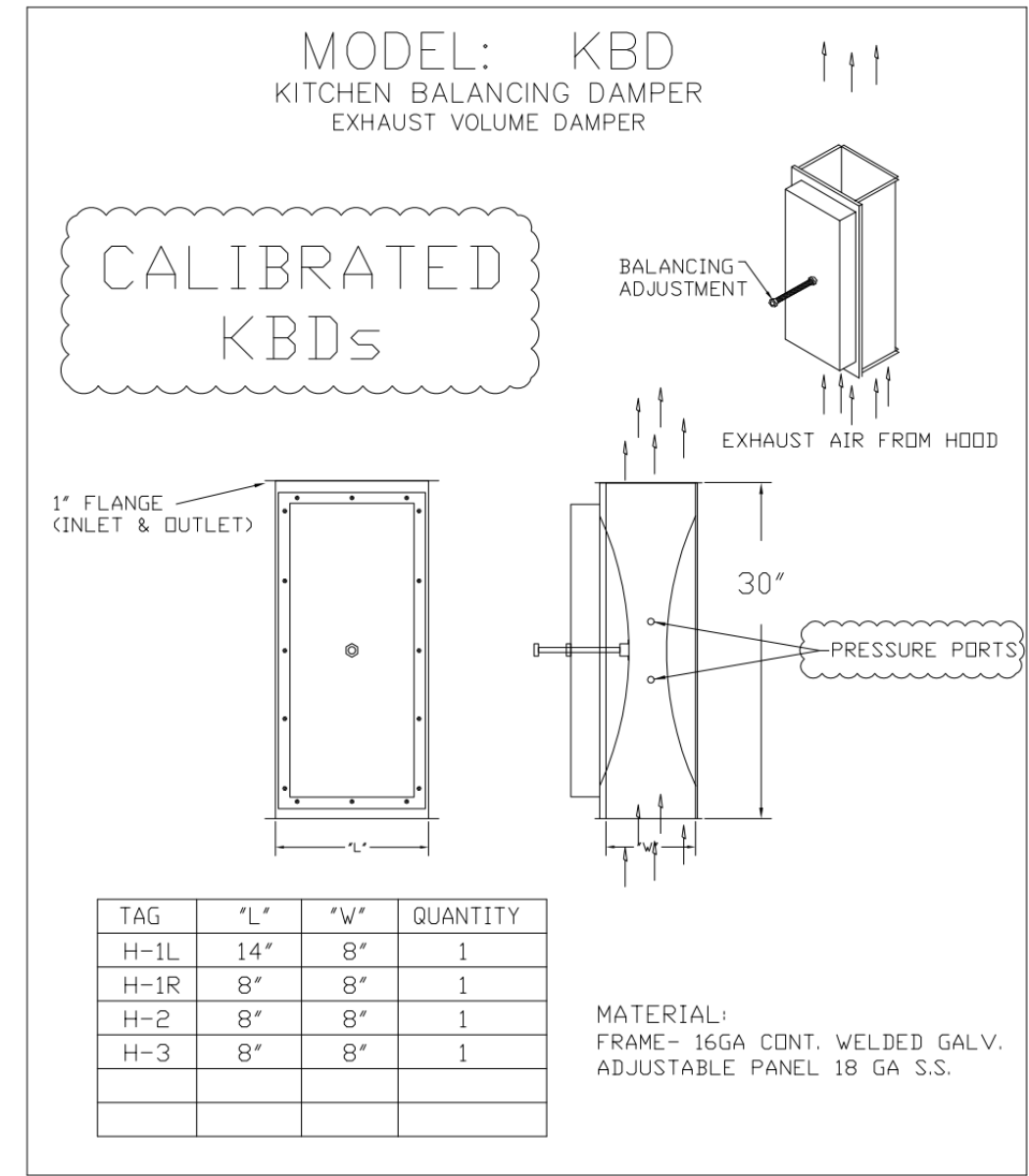
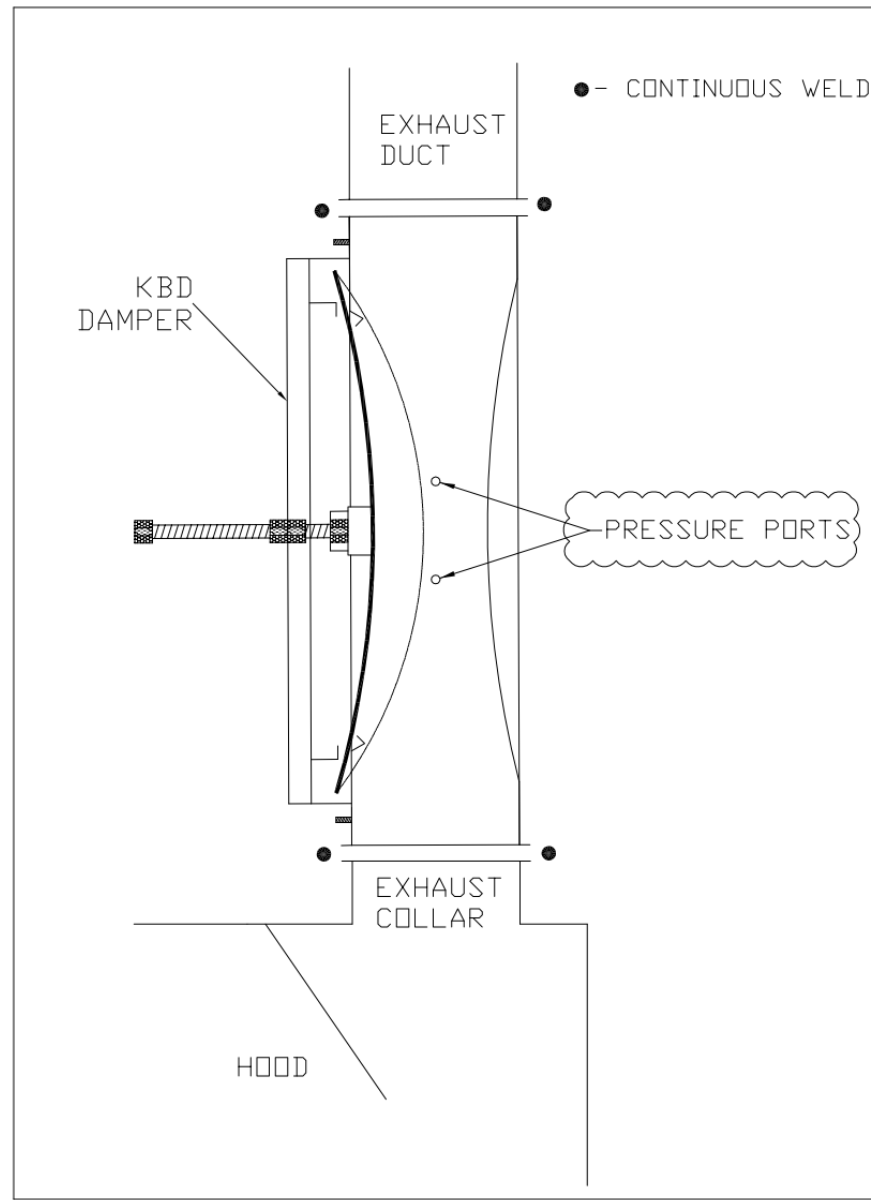
THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFYING THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES TO TYPE OF COOKING EQUIPMENT.
2. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES TO TYPE OF COOKING EQUIPMENT.

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

DESIGNED FOR FABRICATION: WITH NO CHANGES WITH CHANGES AS NOTED

APPROVED BY: _____ DATE: _____



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

Halton

CONFORMS TO UL STD. LISTED 710

MODEL NO. SERIAL NO. ITEM NO.

GENERAL REQUIREMENTS

FOR USE TO MEASUREMENTS APPLIANCES

BUILD LEVEL	MINIMUM OVERHEAD CLEARANCE	MINIMUM CLEARANCE TO EXHAUST DUCT	MINIMUM CLEARANCE TO EXHAUST DUCT	MINIMUM CLEARANCE TO EXHAUST DUCT
MEDIUM	10'	10'	10'	10'
LOW	8'	8'	8'	8'
HIGH	12'	12'	12'	12'
VERY HIGH	14'	14'	14'	14'

LET SUPPLY AIR FLOW SHALL ONLY BE SET AT 230 IN HOOD

Halton

CONFORMS TO UL STD. LISTED 710

MODEL NO. SERIAL NO. ITEM NO.

GENERAL REQUIREMENTS

FOR USE TO MEASUREMENTS APPLIANCES

BUILD LEVEL	MINIMUM OVERHEAD CLEARANCE	MINIMUM CLEARANCE TO EXHAUST DUCT	MINIMUM CLEARANCE TO EXHAUST DUCT	MINIMUM CLEARANCE TO EXHAUST DUCT
MEDIUM	10'	10'	10'	10'
LOW	8'	8'	8'	8'
HIGH	12'	12'	12'	12'
VERY HIGH	14'	14'	14'	14'

LET SUPPLY AIR FLOW SHALL ONLY BE SET AT 230 IN HOOD

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

WEBSITE: WWW.HALTON.COM

HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

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

PROJECT: CHICK-FIL-A P14 LS/LE/SE/DTO/DTN BUILDING

LOCATION: ---

DRAWN BY: CC DATE: 08.09.22

SCALE: NTS

Halton Dwg: U22-606-01

Halton
CARE FOR INDOOR AIR

Sheet MH-1.1

REV.	DATE	DESCRIPTION
1	08.09.22	ISSUED FOR PERMIT
2		
3		
4		
5		
6		
7		

For Construction

CONSULTANT PROJECT # 2636

DATE 03/28/2024

DRAWN BY: _____

Author

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SHEET HALTON HOOD SHOP DRAWING

DATE 03/28/2024

Author

Chick-fil-A

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

KEAO
ENGINEERS
Engineering Excellence since 1984

KEAO ENGINEERS
186 WOOD AVE. SOUTH, 1ST FLOOR
SELIN, NJ 08830
TEL: (732) 655-0044 • FAX: (732) 635-1777
NY STATE CERTIFICATE OF AUTHORIZATION #0019115

ARMEN KHACHATURIAN P.E.
NY LICENSE #062291-1

CHICK-FIL-A
EXPRESSWAY PLAZA

2280-2350 North Ocean Ave.
FARMINGVILLE, NY 11738

FSR#04810

BUILDING TYPE / SIZE: P14 SE BN

RELEASE DATE: 23.02

PRINTED FOR: ISSUED FOR CONSTRUCTION

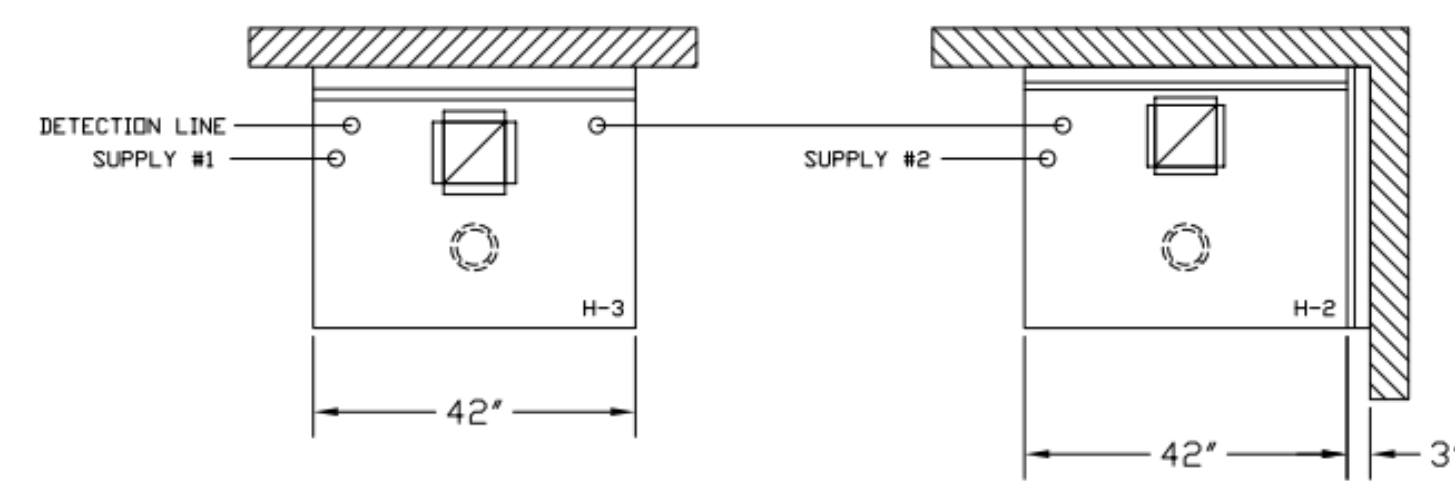
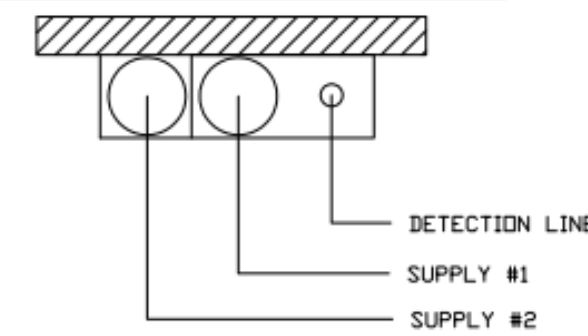
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	8/4/2023	ISSUED FOR PERMIT
4	3/28/2024	ISSUE FOR CONSTRUCTION

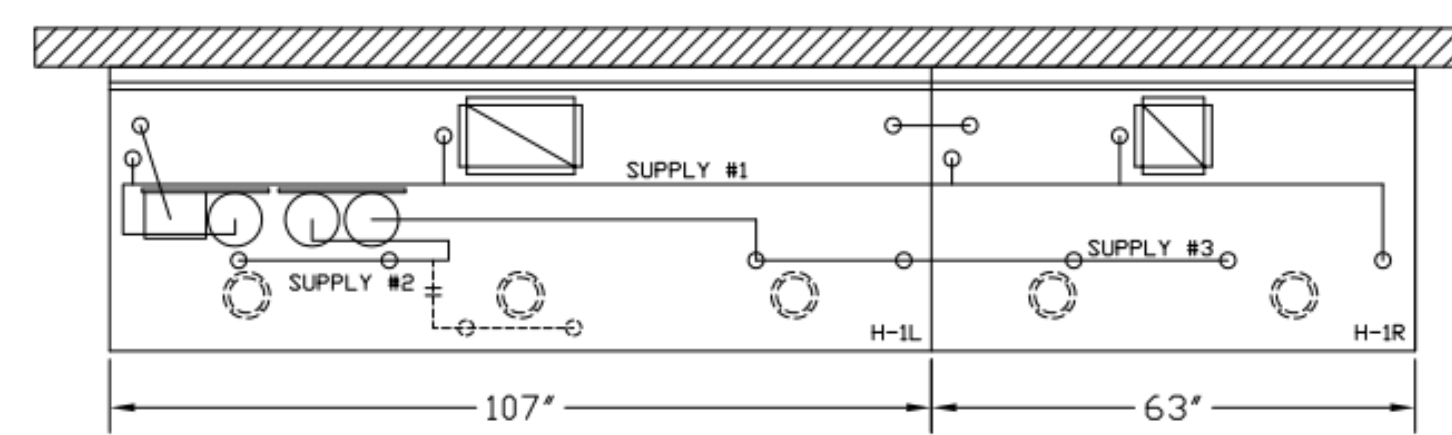
NOTE:

FIRE SYSTEM TYPE TO BE DETERMINED AT TIME OF ORDER RELEASE.

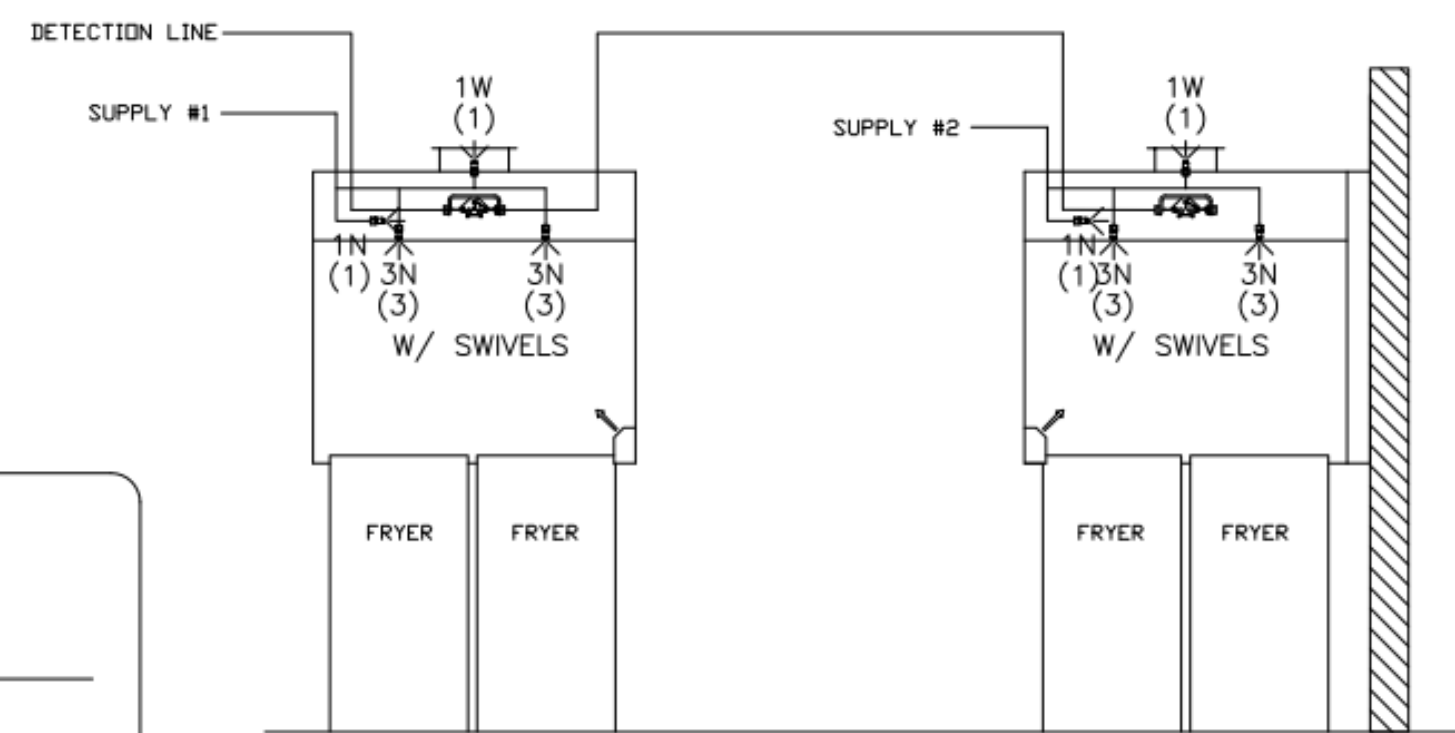
****PROTECTS HOODS H-2 & H-3****
REMOTE MOUNTED:
(1) REGULATED RELEASE (WITH ONE TANK)
(1) SINGLE TANK ENCLOSURE (WITH ONE TANK)



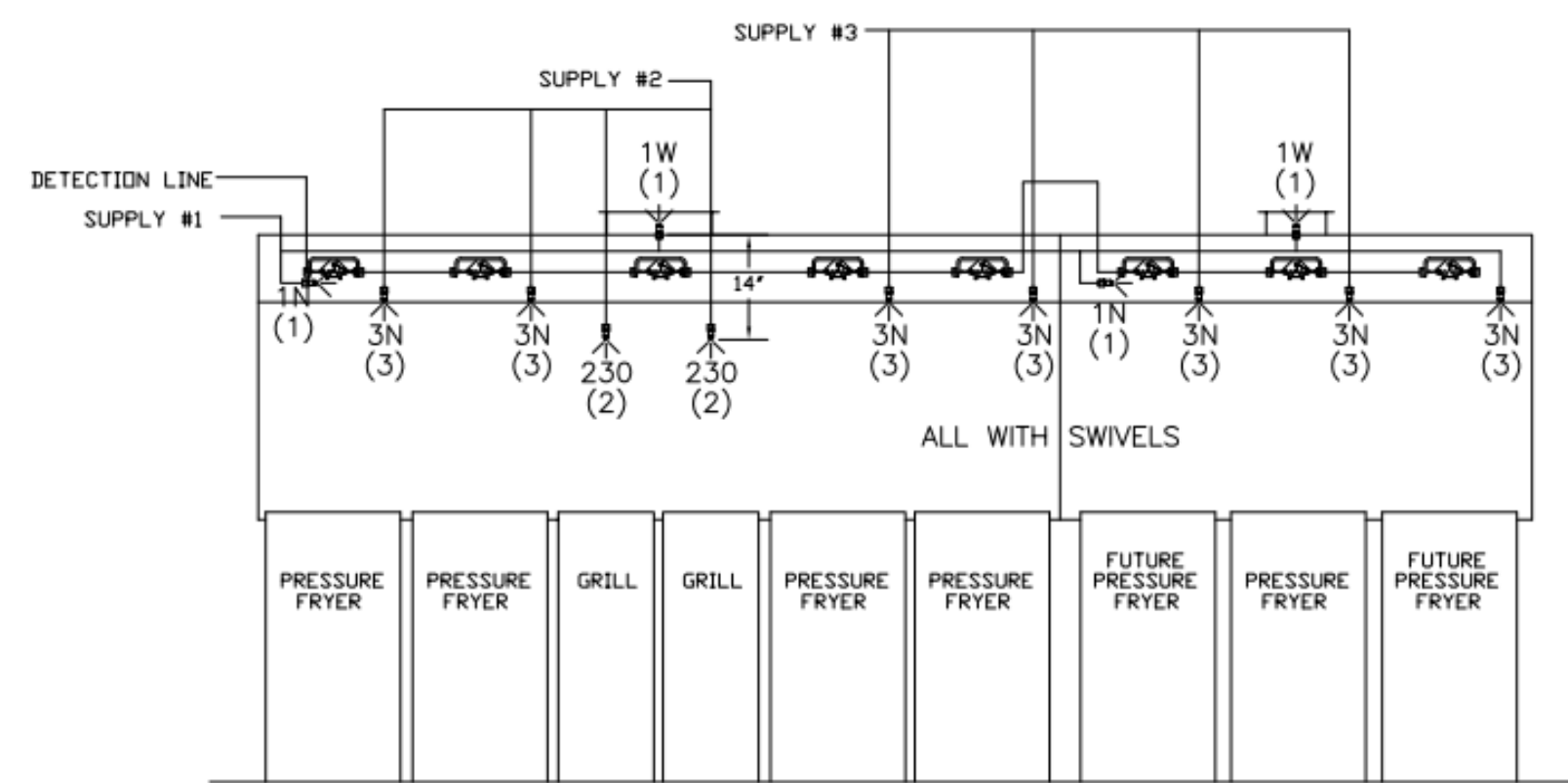
ANSUL R-102 FIRE SYSTEM
A) 6 GALLON SYSTEM (2 TANKS) (REMOTE MOUNTED) (FOR HOODS H-2 & H-3)
B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS
C) REGULATED RELEASE (EXTRA MICRO SWITCH ASSEMBLIES MOUNTED IN REG. REL.)
D) 3 GALLON TANKS



ANSUL R-102 FIRE SYSTEM
A) 9 GALLON SYSTEM (3 TANKS) MOUNTED ON HOOD (H-1L) (FOR HOODS H-1L & H-1R)
B) 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS
C) DEM REGULATED RELEASE (EXTRA MICRO SWITCH ASSEMBLIES MOUNTED IN DEM REG. REL.)
D) 3 GALLON TANKS



ANSUL R-102 FIRE SYSTEM LAYOUT



ANSUL R-102 FIRE SYSTEM LAYOUT

FIRE EXTINGUISHER

ISO VIEW W/BACKET

5 LBS. ABC MODEL B402 QTY: _____

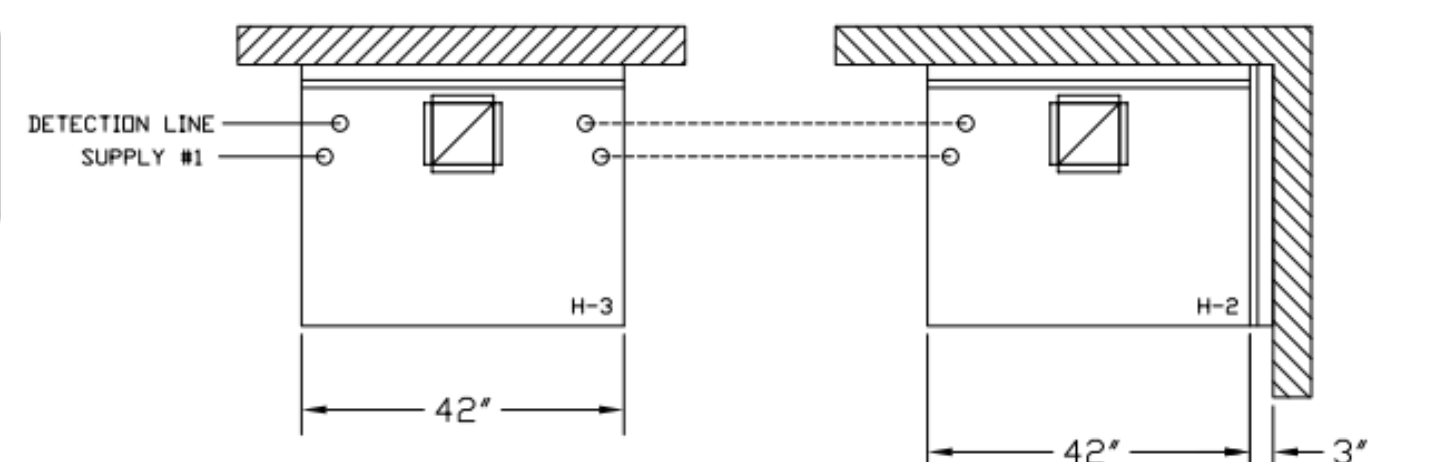
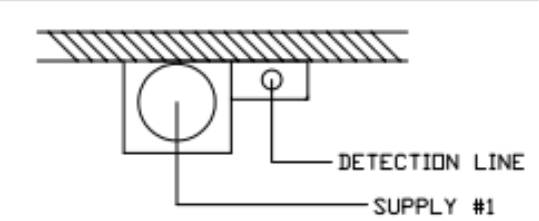
10 LBS. ABC MODEL B456 QTY: _____

6 LTR CLASS K MODEL C-260 QTY: _____

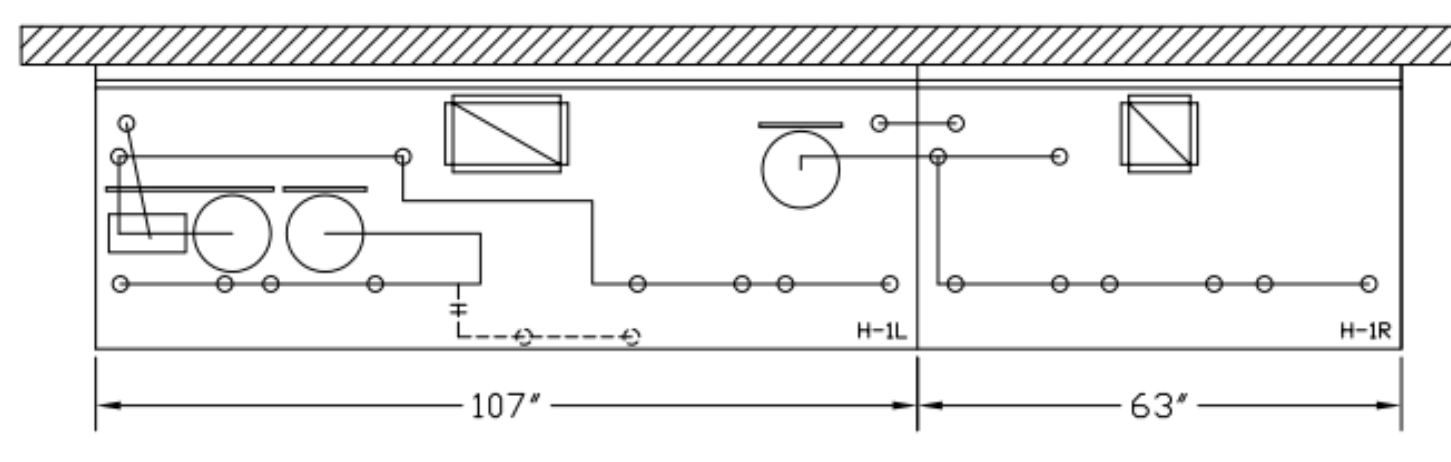
SUPPLIED BY HALTON

1/2" BLACK IRON SUPPLY LINE REQ'D FROM TANK TO FIRST BRANCH LINE FOR 475 TANKS ONLY!

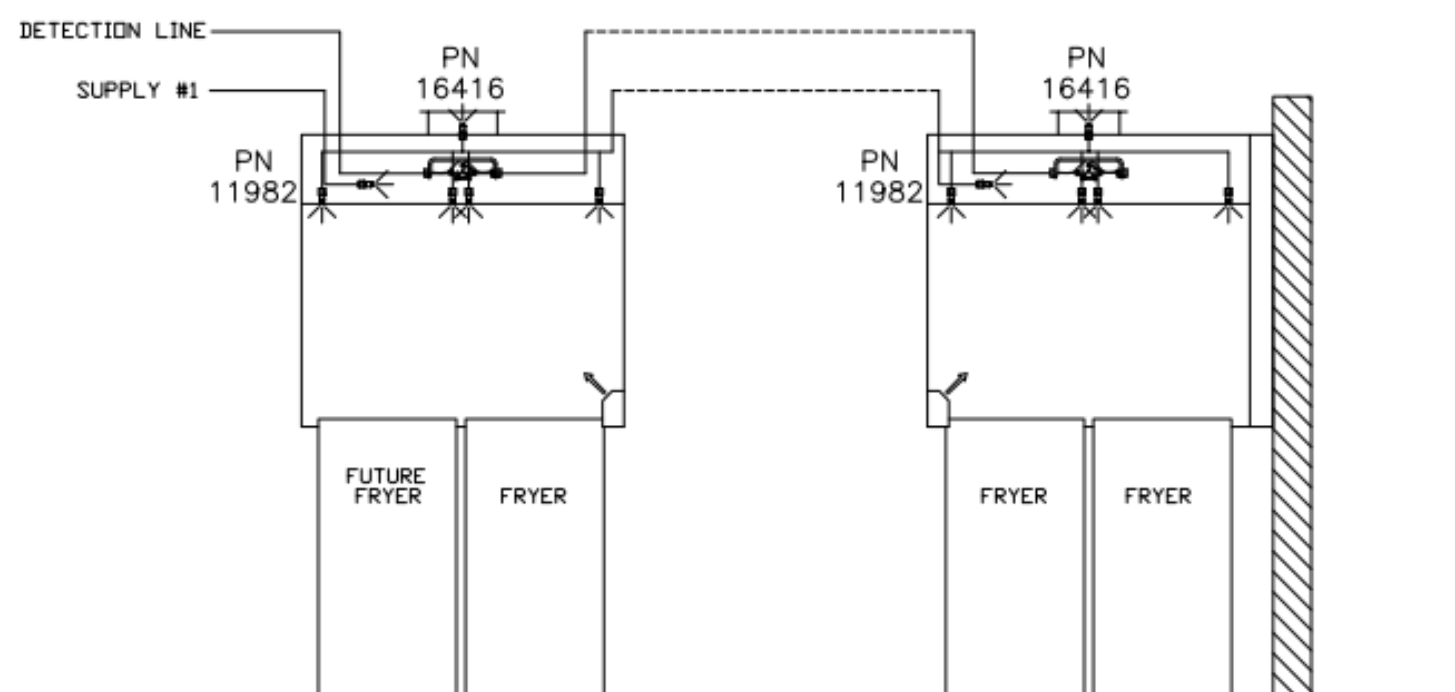
****PROTECTS HOODS H-2 & H-3****
REMOTE MOUNTED:
(1) SYSTEM ENCLOSURE
(1) WALL MOUNTING BRACKET
(1) MECHANICAL RELEASE MODULE
(1) KP475 AGENT CYLINDER (4.75 GALLON TANK)



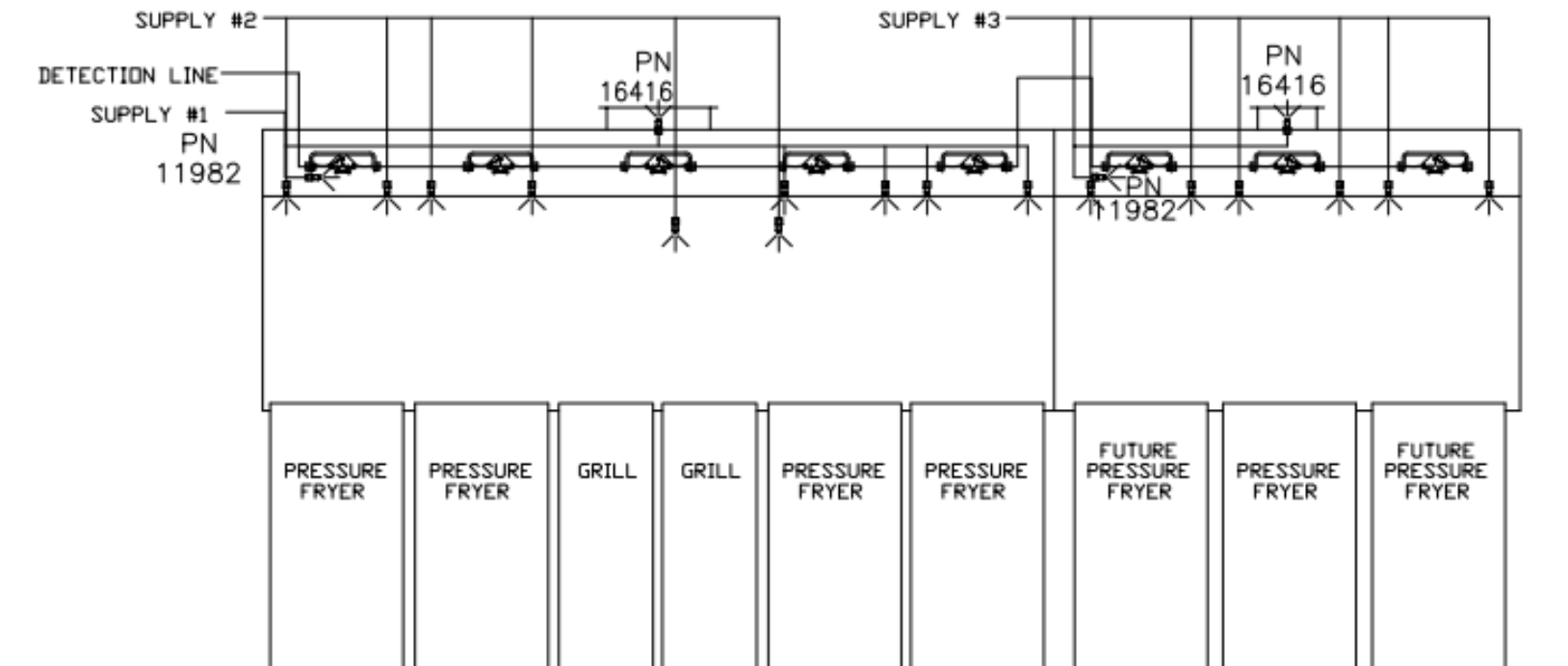
AMEREX FIRE SYSTEM
A) (1) KP475 TANKS - 14 FLOW POINTS (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B) 1/2" & 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS
C) SYSTEM ENCLOSURE
D) WALL MOUNTING BRACKET
E) MECHANICAL RELEASE MODULE
F) EXTRA MICRO SWITCH ASSEMBLIES MOUNTED IN MECHANICAL REL. MODULE
G) KP475 AGENT CYLINDERS (4.75 GALLON TANK)



AMEREX FIRE SYSTEM
A) (1) KP375 TANK - 11 FLOW POINTS (1) KP475 TANKS - 14 FLOW POINTS MOUNTED ON HOOD (H-1L) (FOR HOODS H-1L & H-1R)
B) 1/2" & 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS
C) MECHANICAL RELEASE MODULE
D) EXTRA MICRO SWITCH ASSEMBLIES MOUNTED IN MECHANICAL REL. MODULE
E) 3.75 GALLON TANK
F) 4.75 GALLON TANKS



AMEREX FIRE SYSTEM LAYOUT



AMEREX FIRE SYSTEM LAYOUT

ALL APPLIANCE NOZZLES FOR H-2 & H-3 ARE PN 11982 NOZZLES W/ SWIVELS.

ALL APPLIANCE NOZZLES FOR PRESSURE FRYERS ARE PN 13729 NOZZLES W/ SWIVELS. ALL GRILL NOZZLES ARE 14178 NOZZLES W/ SWIVELS.

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-1L)
MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES
TWO TANK SYSTEM REMOTE MOUNTED
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	11	APPLIANCE NOZZLES	33
TOTAL FLOW POINTS - 45			

ITEM #	QTY	DESCRIPTION
#200	8	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	1	DEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#202	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#203	5	3 GALLON TANKS
#204	1	SINGLE TANK ENCLOSURE
#205	2	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



FUSIBLE LINK RATINGS

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

AMEREX FIRE SYSTEM NOTES
(1) KP375 & (2) KP475 TANK SYSTEM MOUNTED ON TOP OF (H-1L)
MAXIMUM FLOW POINTS = 39

AMEREX FIRE SYSTEM NOTES
KP475 TANK SYSTEM REMOTE MOUNTED
(1) TANK
MAXIMUM FLOW POINTS = 14

ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
16416	4	DUCT NOZZLES	4
11982	4	PLENUM NOZZLES	4
11982	8	APPLIANCE NOZZLES	8
14178	2	APPLIANCE NOZZLES	4
13729	14	APPLIANCE NOZZLES	28
TOTAL FLOW POINTS - 48			

ITEM #	QTY	DESCRIPTION
12508-P001	10	DETECTOR BRACKET ASSEMBLY
13334	1	KP375 AGENT CYLINDER
17379	3	KP475 AGENT CYLINDER
18001	1	MECHANICAL RELEASE MODULE W/ DOUBLE POLE MICRO SWITCH
25851	1	SYSTEM ENCLOSURE W/ DOUBLE POLE MICRO SWITCH
16920	1	WALL MOUNTING BRACKET
21481	3	REMOTE MANUAL PULL STATION

AMEREX FIRE SYSTEM
TESTED & LISTED BY UNDERWRITERS LABORATORIES, INC. TO UL STANDARD 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 AMEREX INSTALLER
- REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND/OR FUSIBLE LINK RATINGS.
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.
NOTE: TO APPROVE: THE MANUFACTURER'S EQUIPMENT SHALL BE INSPECTED BEFORE ANY OF THE EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. AIRFLOW MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR. A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.
 REVERSE AND RESUBMIT
 APPROVED FOR FABRICATION
 WITH NO CHANGES
 WITH CHANGES AS NOTED



REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		

WEBSITE: WWW.HALTON.COM
HALTON CO. (USA)
100 INDUSTRIAL BLVD
SCOTTSVILLE, KY 42164
1-270-237-5600

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:
HALTON CO. (CANADA)
100 BREXK PLAZE
MISSISSAUGA ON L4W 4R7
1-905-624-0301

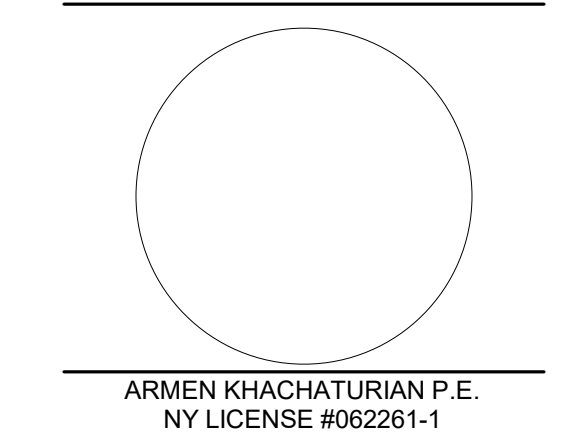
PROJECT: CHICK-FIL-A P14
LS/LE/SE/DTO/DTN BUILDING
LOCATION: ---
DRAWN BY: CG DATE: 08.09.22
SCALE: NTS
Halton Dwg: U22-606-02FS

Sheet
MH-1.2



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

KEAO ENGINEERS
ENGINEERING Excellence since 1984
186 WOOD AVE. SOUTH, 1ST FLOOR
SEELIN, NJ 08830
TEL: (732) 655-0044 - FAX: (732) 655-1777
NY STATE CERTIFICATE OF AUTHORIZATION #0019115



ARMEN KHACHATURIAN P.E.
NY LICENSE #062291-1

CHICK-FIL-A EXPRESSWAY PLAZA
2280-2350 North Ocean Ave.
FARMINGVILLE, NY 11738

FSR#04810
BUILDING TYPE / SIZE: P14 SE BN
RELEASE: 23.02
PRINTED FOR
ISSUED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	8/4/2023	ISSUED FOR PERMIT
4	3/28/2024	ISSUE FOR CONSTRUCTION

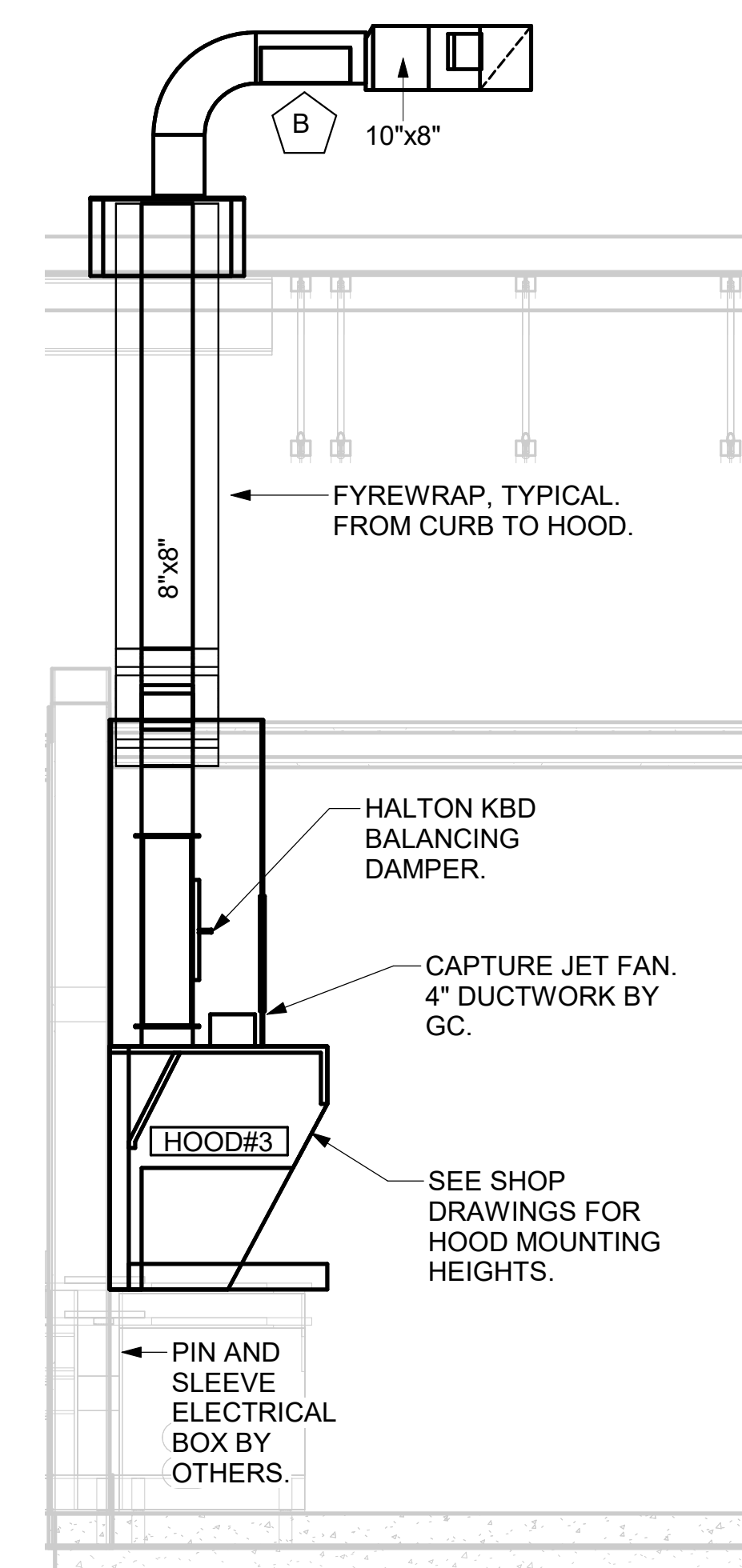
CONSULTANT PROJECT # 2636
DATE 03/28/2024
DRAWN BY: Author
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SHEET HALTON HOOD SHOP DRAWING

For Construction - SHEET NUMBER

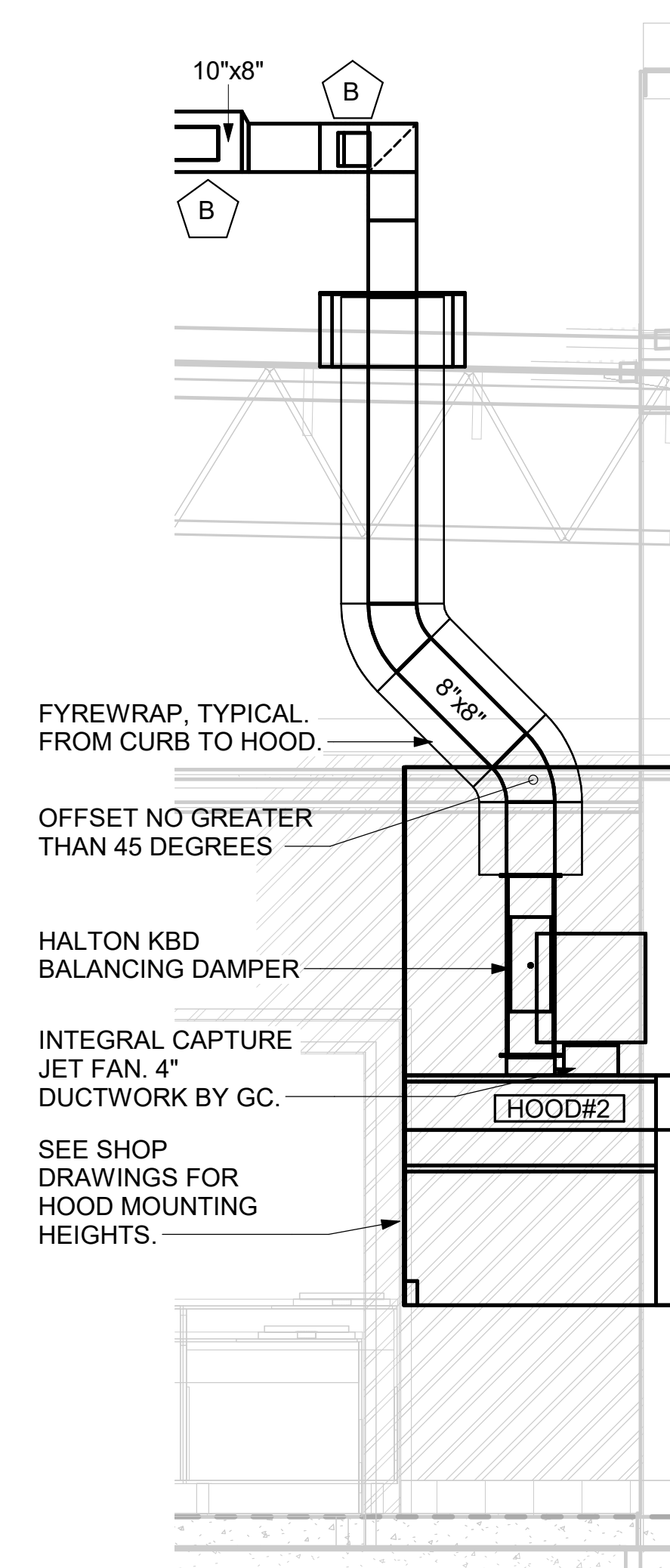
MH-1.2

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.

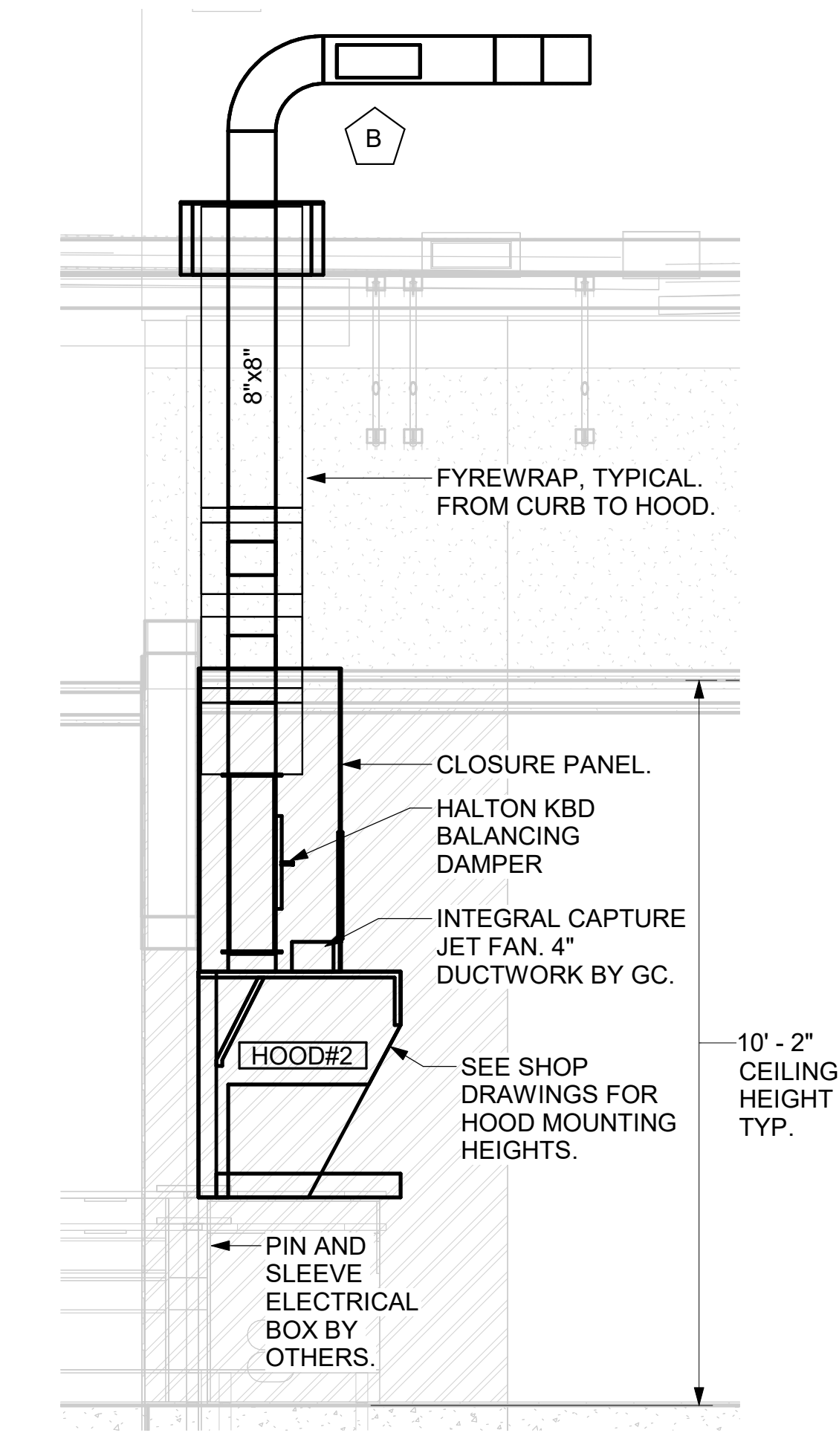
CLEANOUT DOOR NOTE:
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS. NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.



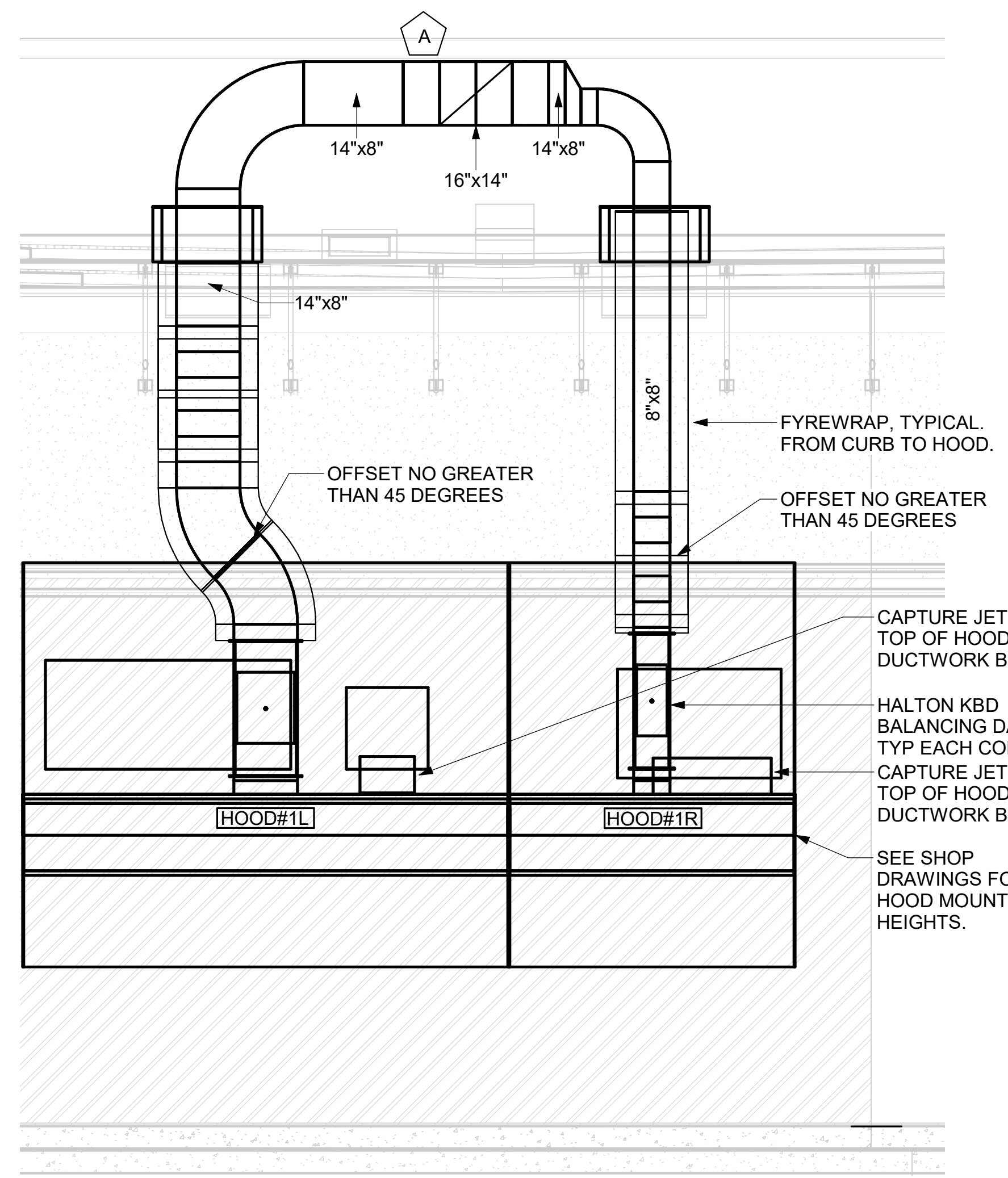
5 HOOD ELEVATION - HOOD#3
NOT TO SCALE



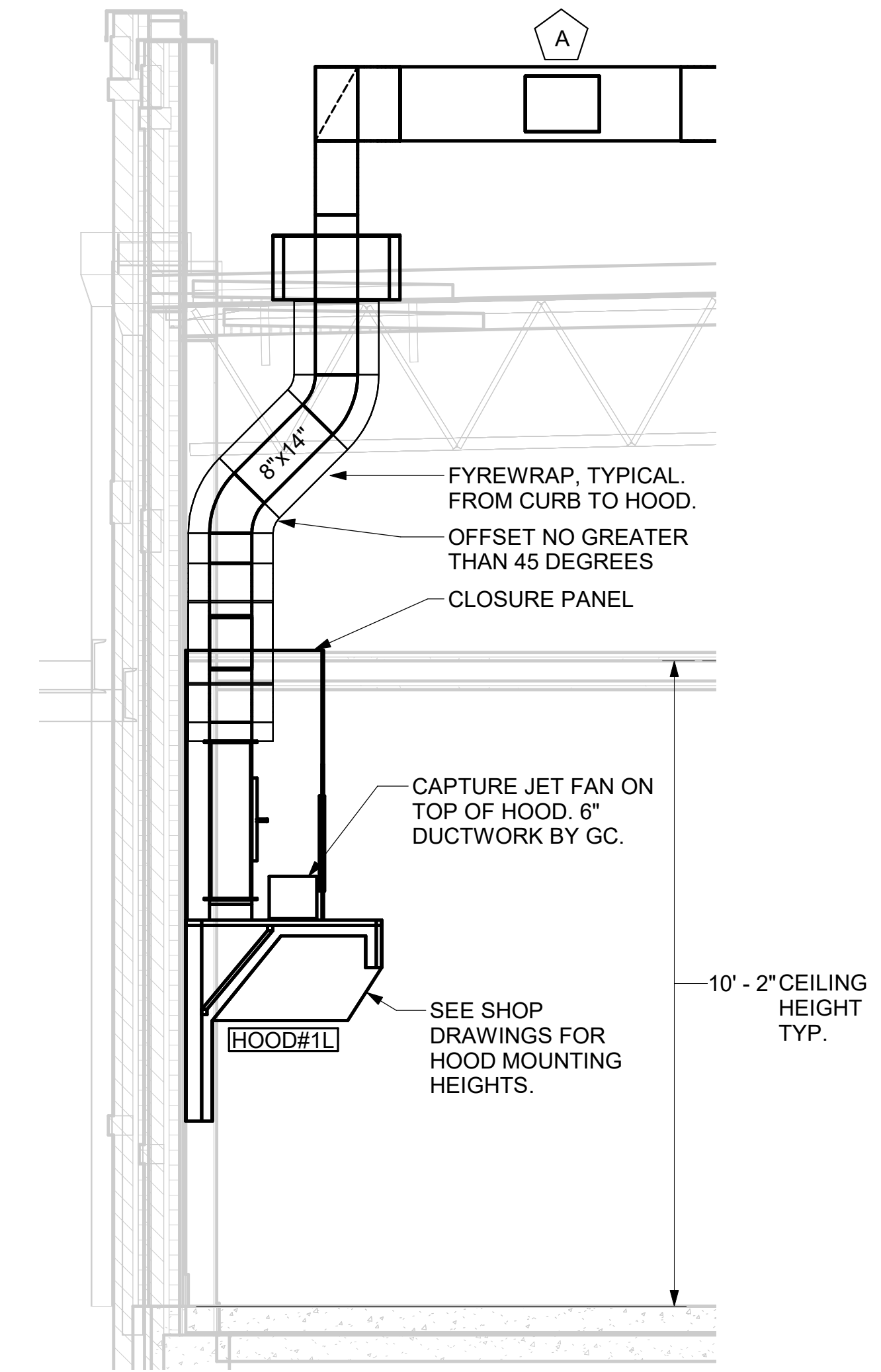
4 HOOD ELEVATION - HOOD#2 - FRONT
NOT TO SCALE



3 HOOD ELEVATION - HOOD#2 - SIDE
NOT TO SCALE



2 HOOD ELEVATION - HOOD#1 - FRONT
NOT TO SCALE

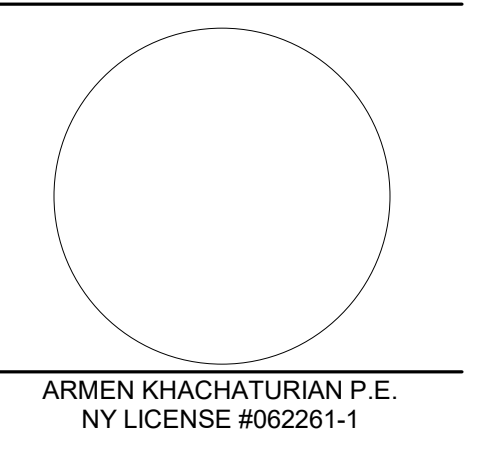


1 HOOD ELEVATION - HOOD#1 - SIDE
NOT TO SCALE



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

KEAO ENGINEERS
Engineering Excellence since 1984
KEAO ENGINEERS
186 WOOD AVE. SOUTH, 1ST FLOOR
ESELIN, NJ 08830
TEL: (732) 635-0044 • FAX: (732) 635-1777
NY STATE CERTIFICATE OF AUTHORIZATION #0019115



CHICK-FIL-A
EXPRESSWAY PLAZA
2280-2350 North Ocean Ave.
FARMINGVILLE, NY 11738

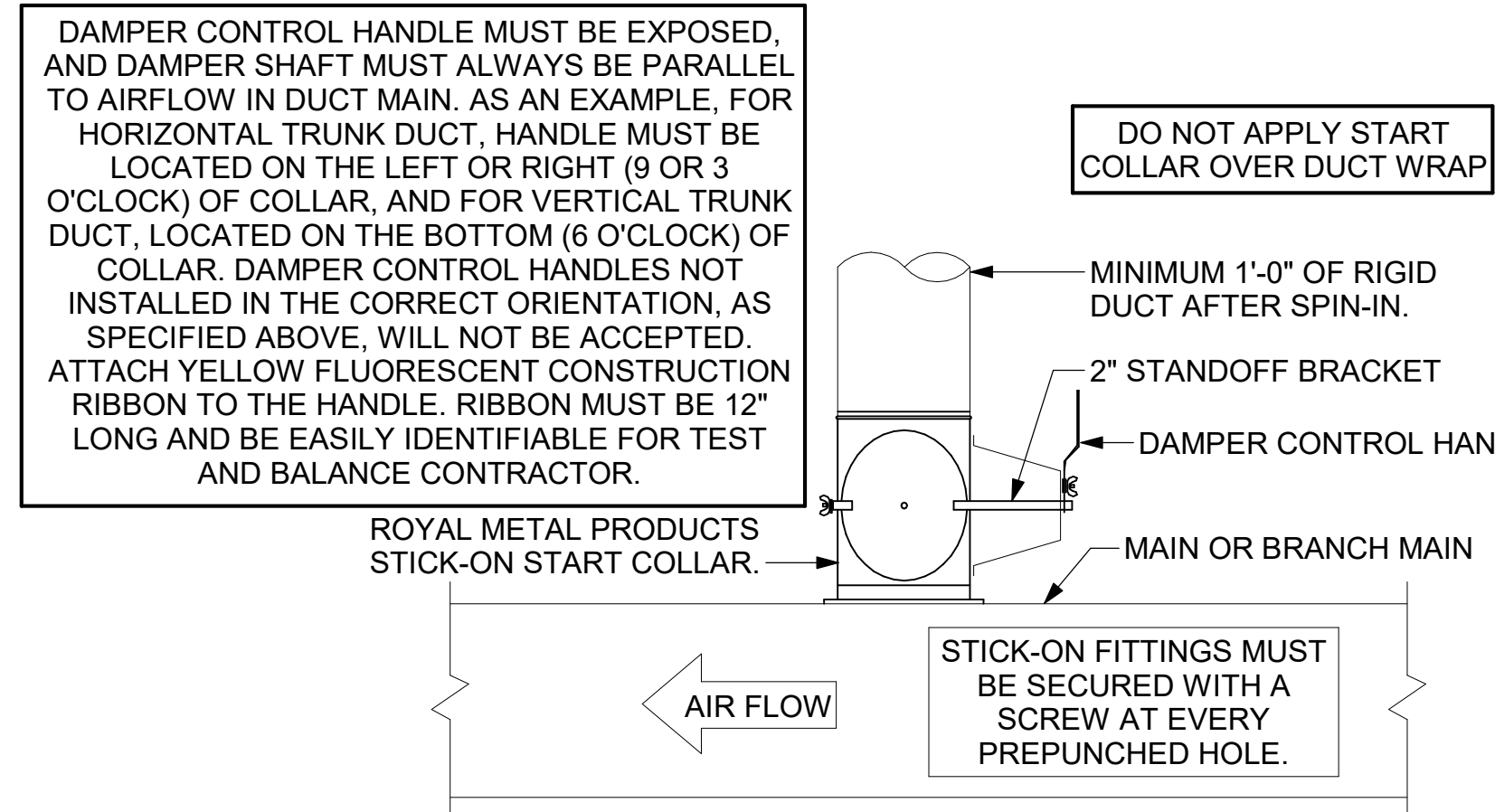
FSR#04810
BUILDING TYPE / SIZE: P14 SE BN
RELEASE: 23.02
PRINTED FOR
ISSUED FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
1	8/4/2023	ISSUED FOR PERMIT
4	3/28/2024	ISSUE FOR CONSTRUCTION

For Construction

CONSULTANT PROJECT # 2636
DATE 03/28/2024
DRAWN BY MM
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SHEET EXHAUST HOOD ELEVATIONS
SHEET NUMBER
M-201

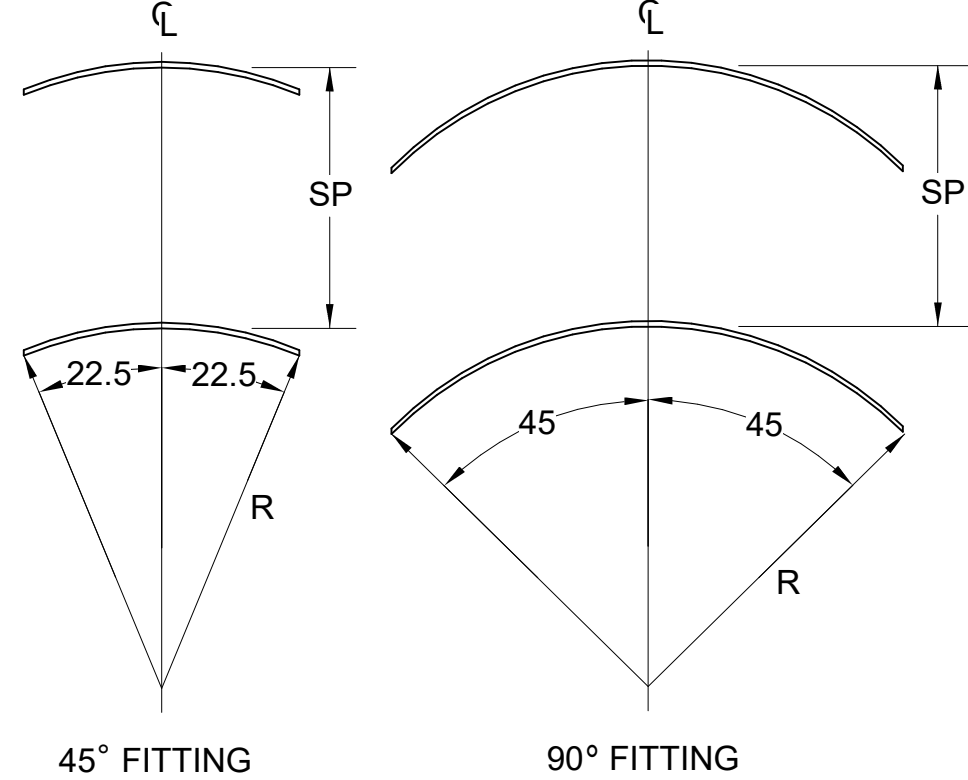
CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE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



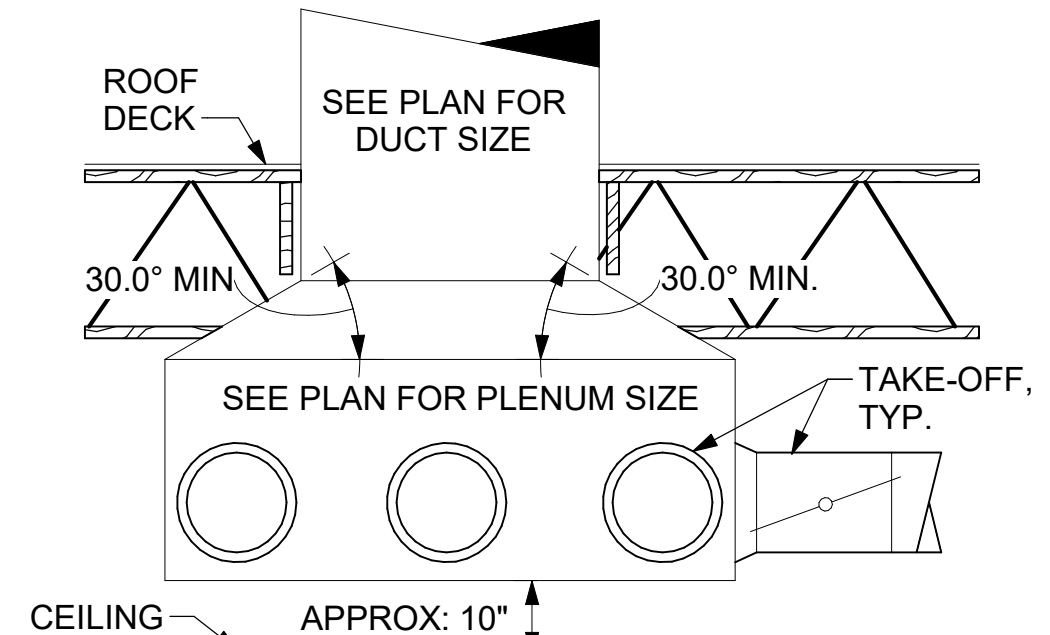
2 START COLLAR
NOT TO SCALE

R	SP	GA
2"	1.5"	24

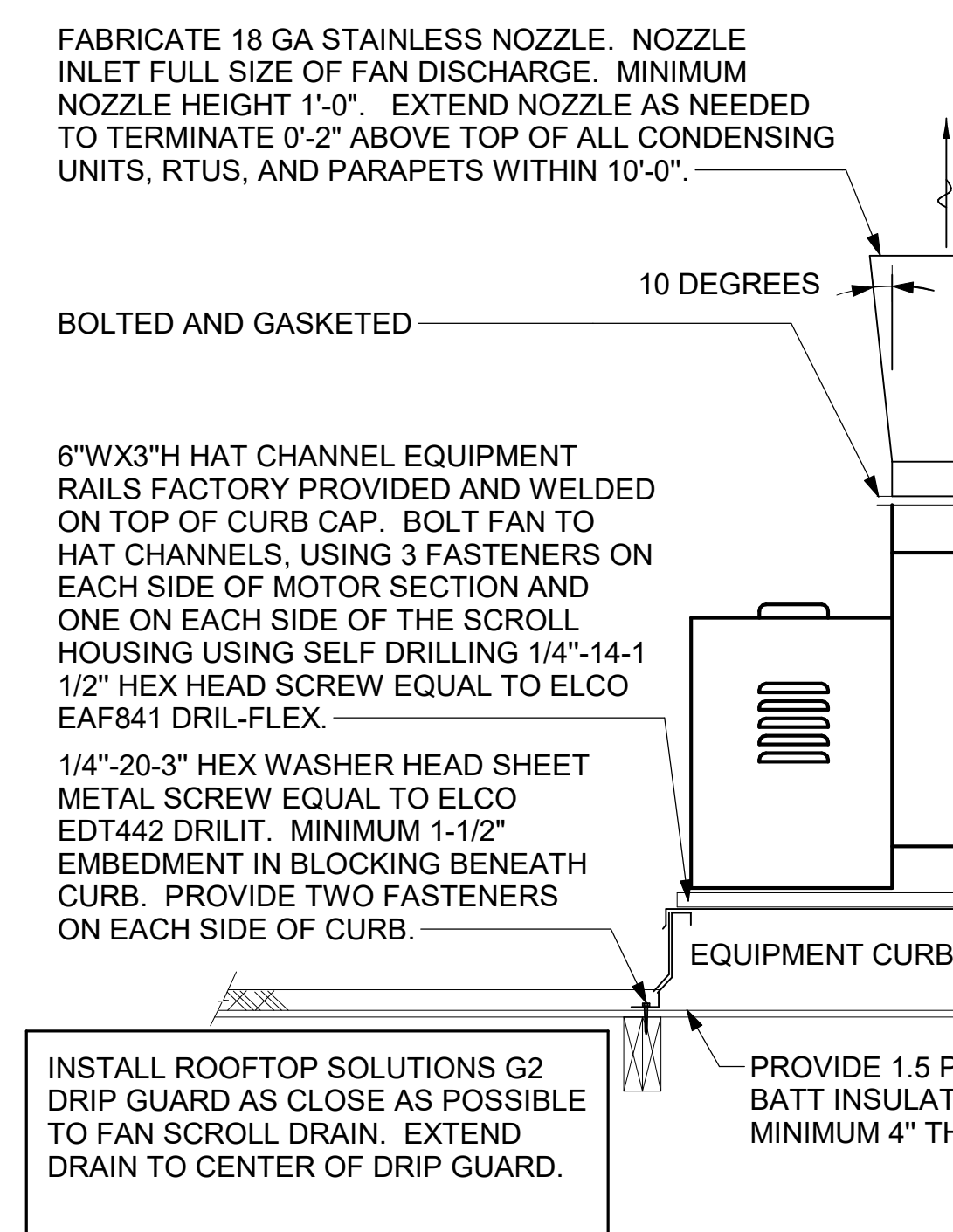
1. NO TRAILING EDGE.
2. SINGLE THICKNESS CONSTRUCTION.



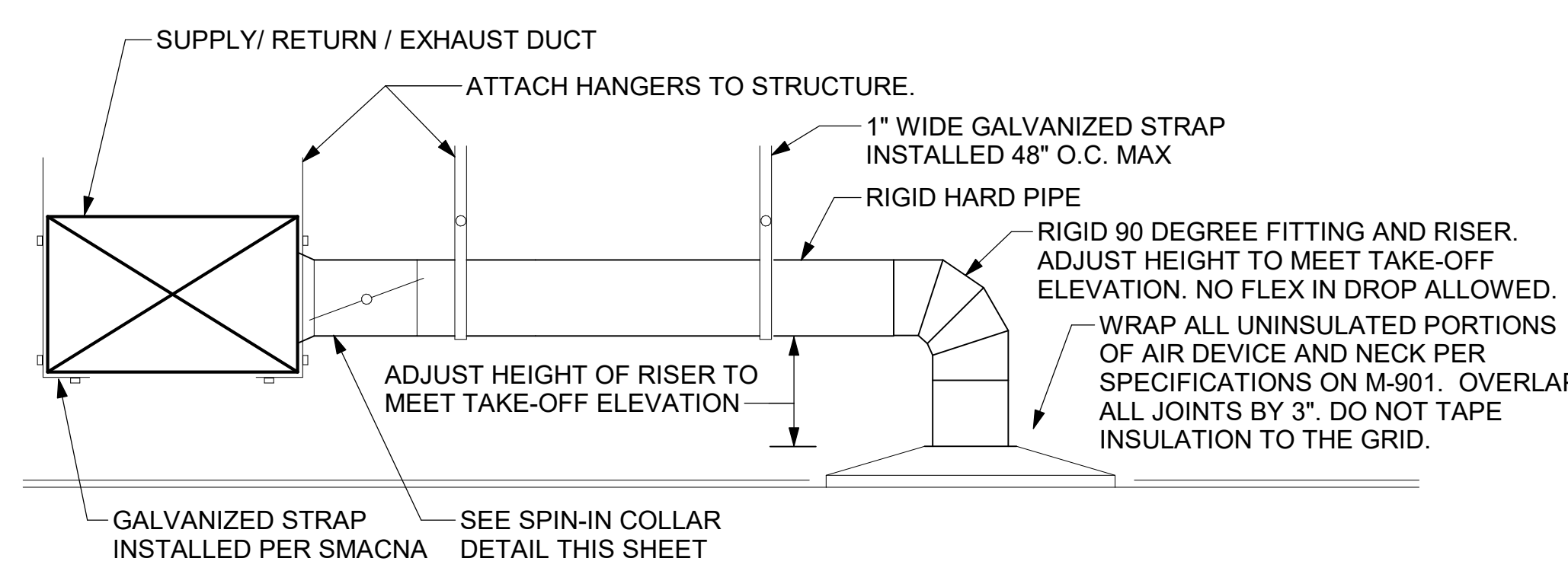
4 TURNING VANES
NOT TO SCALE



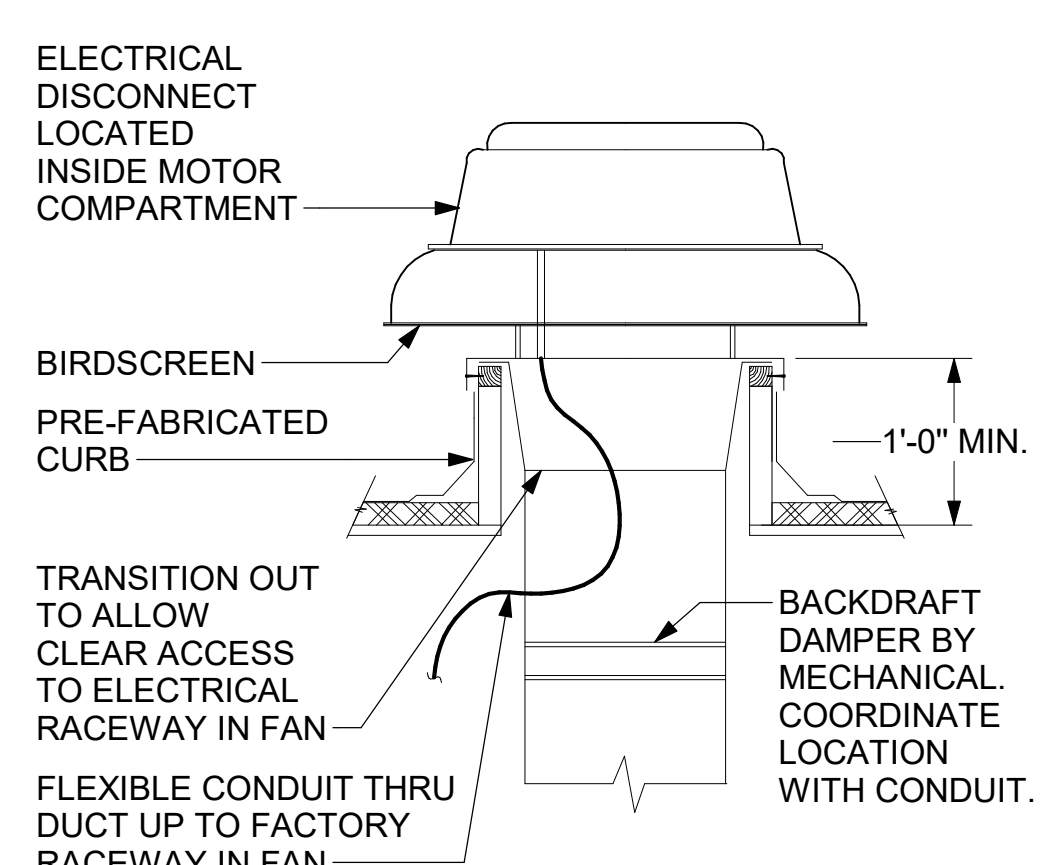
6 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE



1 KITCHEN HOOD EXHAUST FAN
NOT TO SCALE



3 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE



5 RESTROOM EXHAUST FAN
NOT TO SCALE

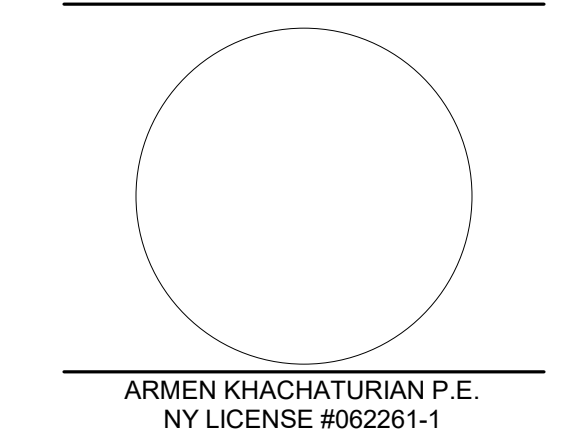
ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.

- KEYED NOTES:
- EQUIPMENT CURB WITH REINFORCED BASE AND STEEL CURB CAP PROVIDED BY TOM BARROW COMPANY. WIDTH OF CURB SHALL BE 4" WIDER THAN FAN FOOTPRINT IN BOTH DIRECTIONS. HEIGHT OF CURB SHALL BE SUCH THAT NO PART OF ANY DUCT TO BE WITHIN 18" OF ROOF SURFACE. PROVIDE FACTORY EQUIPMENT RAILS WELDED TO CAP.
 - ALL DUCT ON ROOF TO BE SUPPORTED WITH MIRO 6-DS DUCT SUPPORT SYSTEM AT 6'-0" INTERVALS MAXIMUM. PROVIDE MIRO SUPPORT PADS AT EACH SUPPORT. ATTACH SUPPORT TO DUCT. PROVIDE A DUCT SUPPORT STAND AT EACH ROOF PENETRATION.
 - 12" HIGH INSULATED CURB PROVIDED BY TOM BARROW COMPANY. MECHANICAL CONTRACTOR TO PROVIDE 16 GA MINIMUM CURB CAP.



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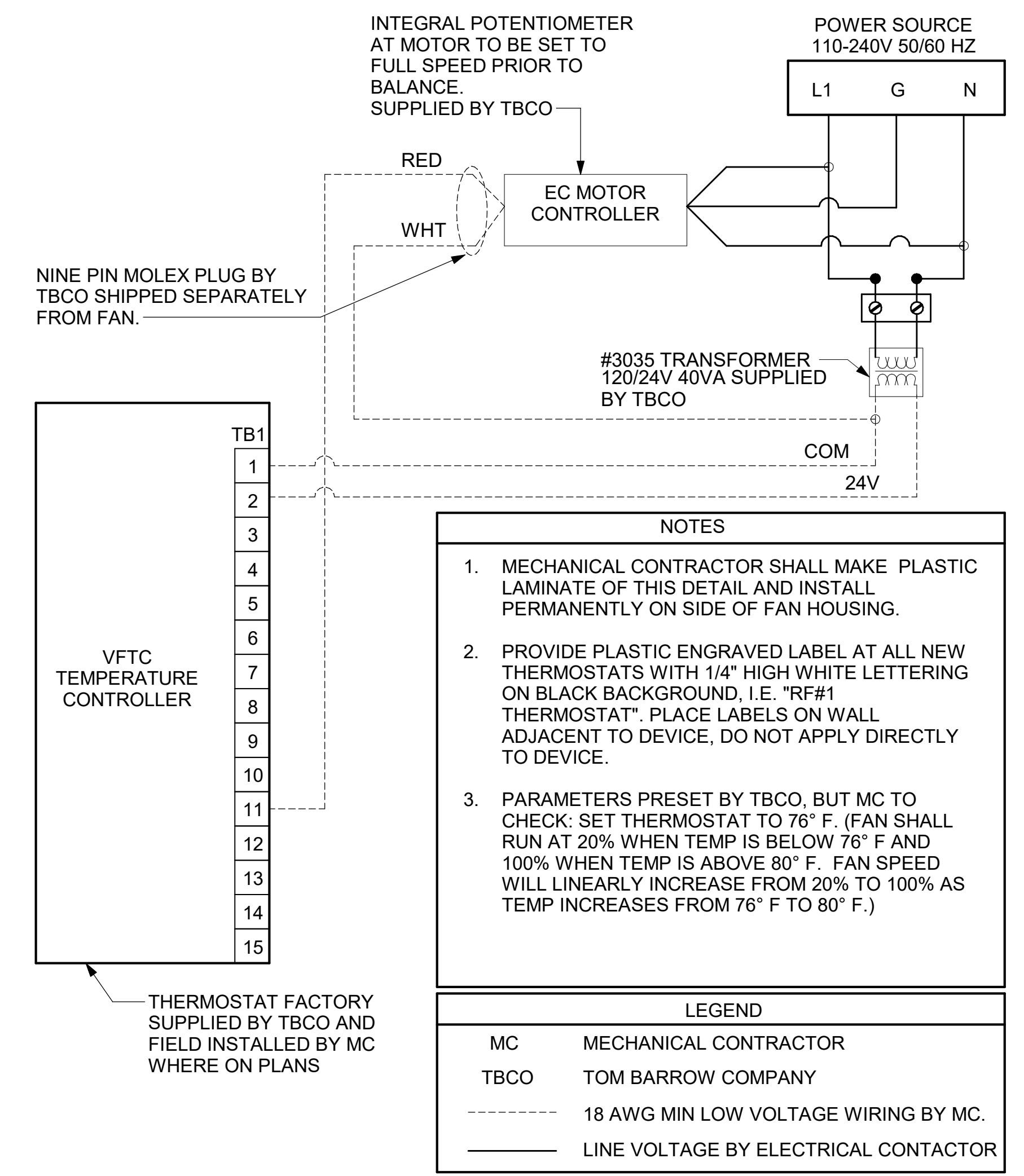
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BUILDING TYPE / SIZE: P14 SE BN
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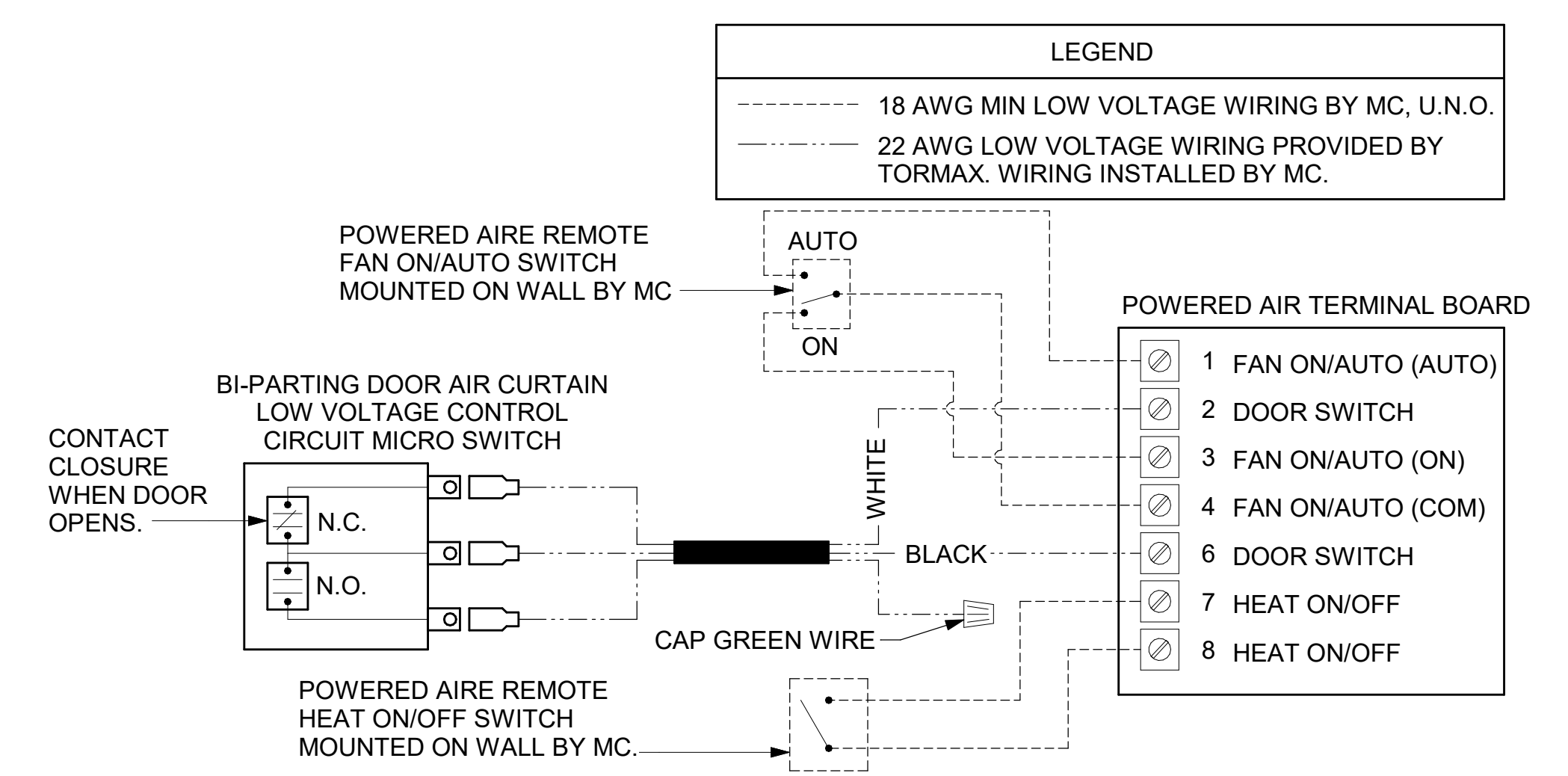
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SHEET DETAILS
SHEET NUMBER

M-501



1 TECH CLOSET CONTROL DIAGRAM
NOT TO SCALE

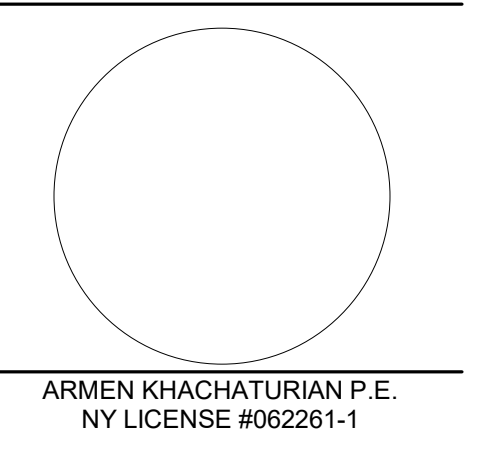


2 AIR CURTAIN WIRING DIAGRAM
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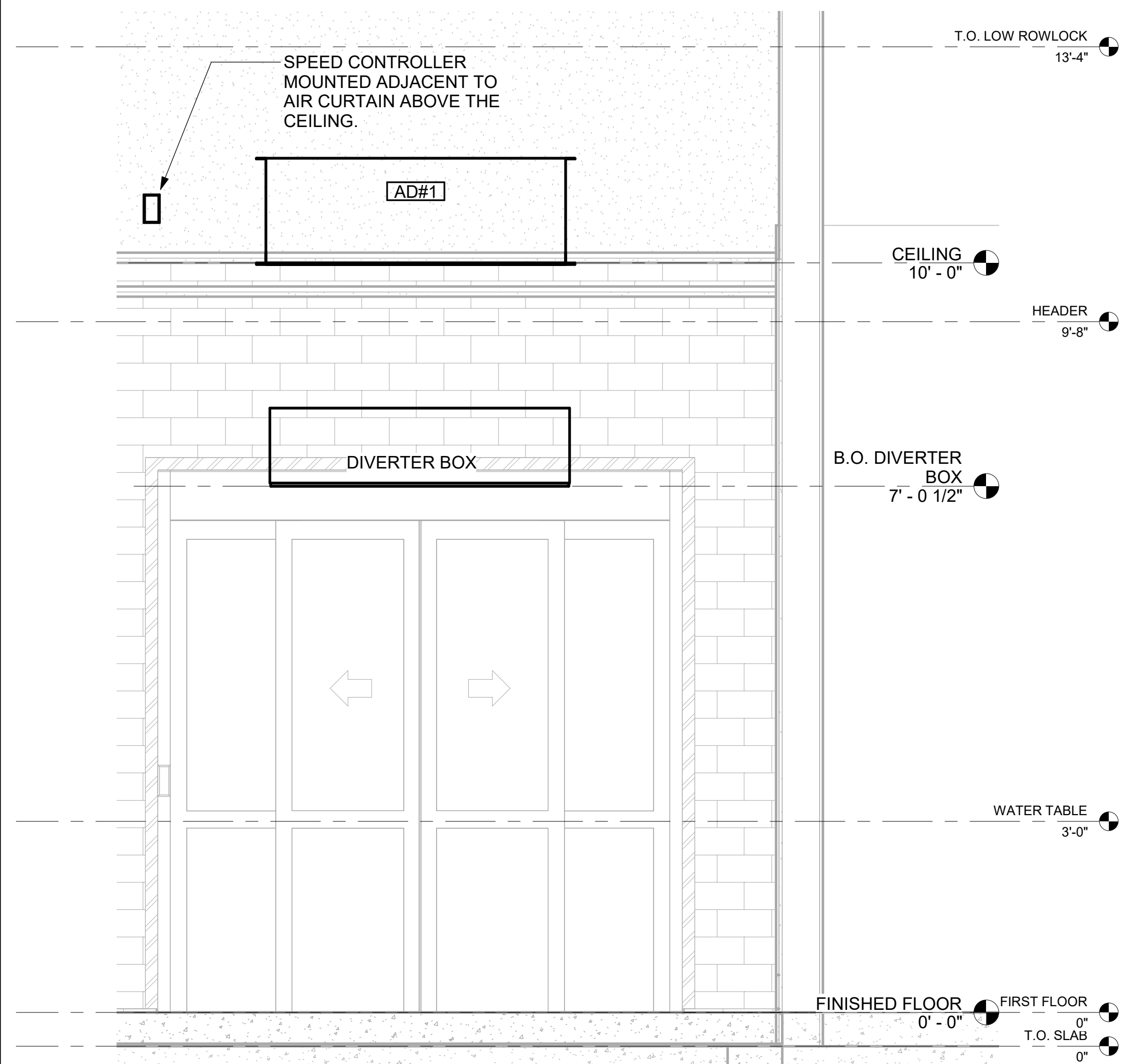
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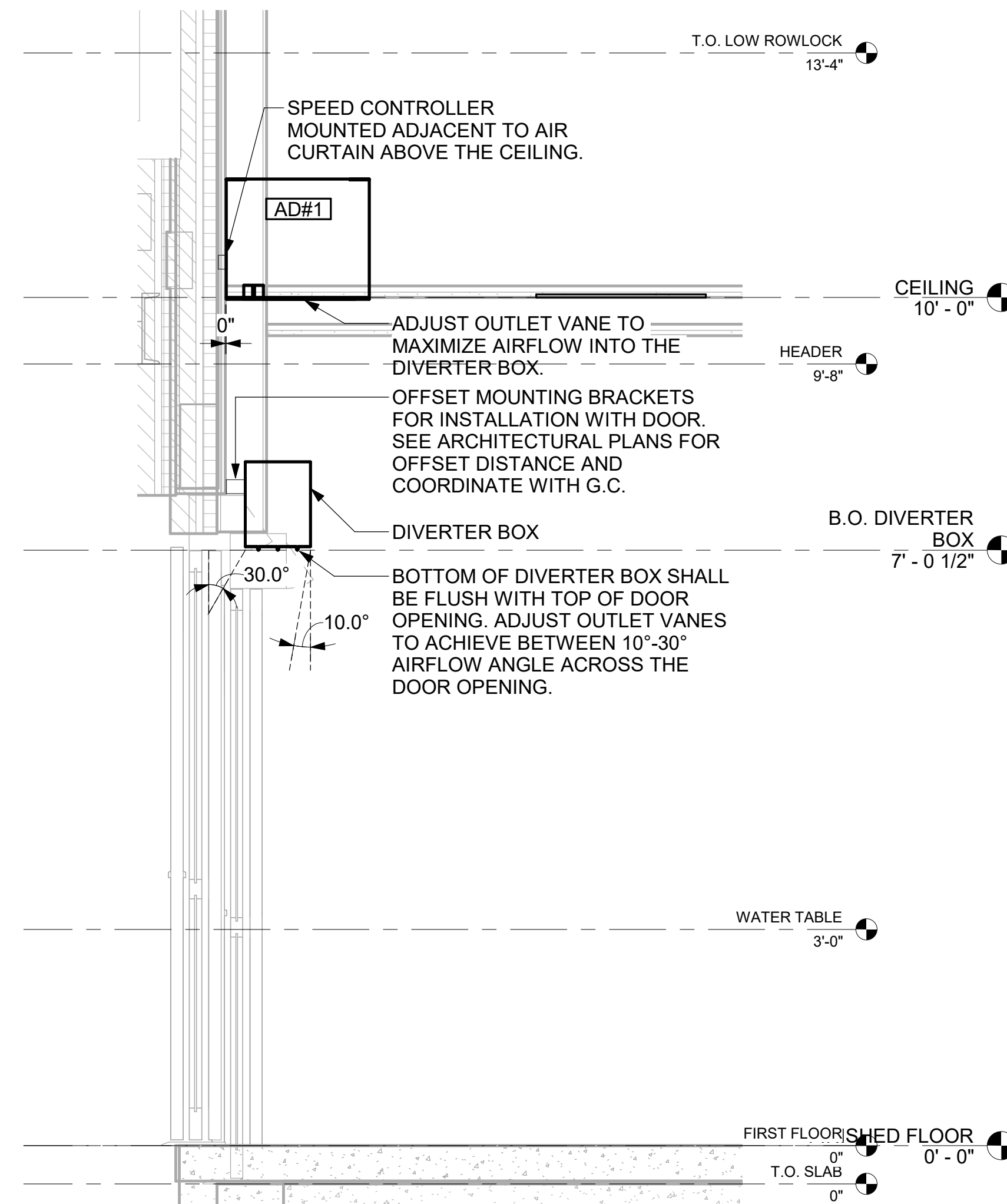
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SHEET CONTROL WIRING DIAGRAMS
SHEET NUMBER

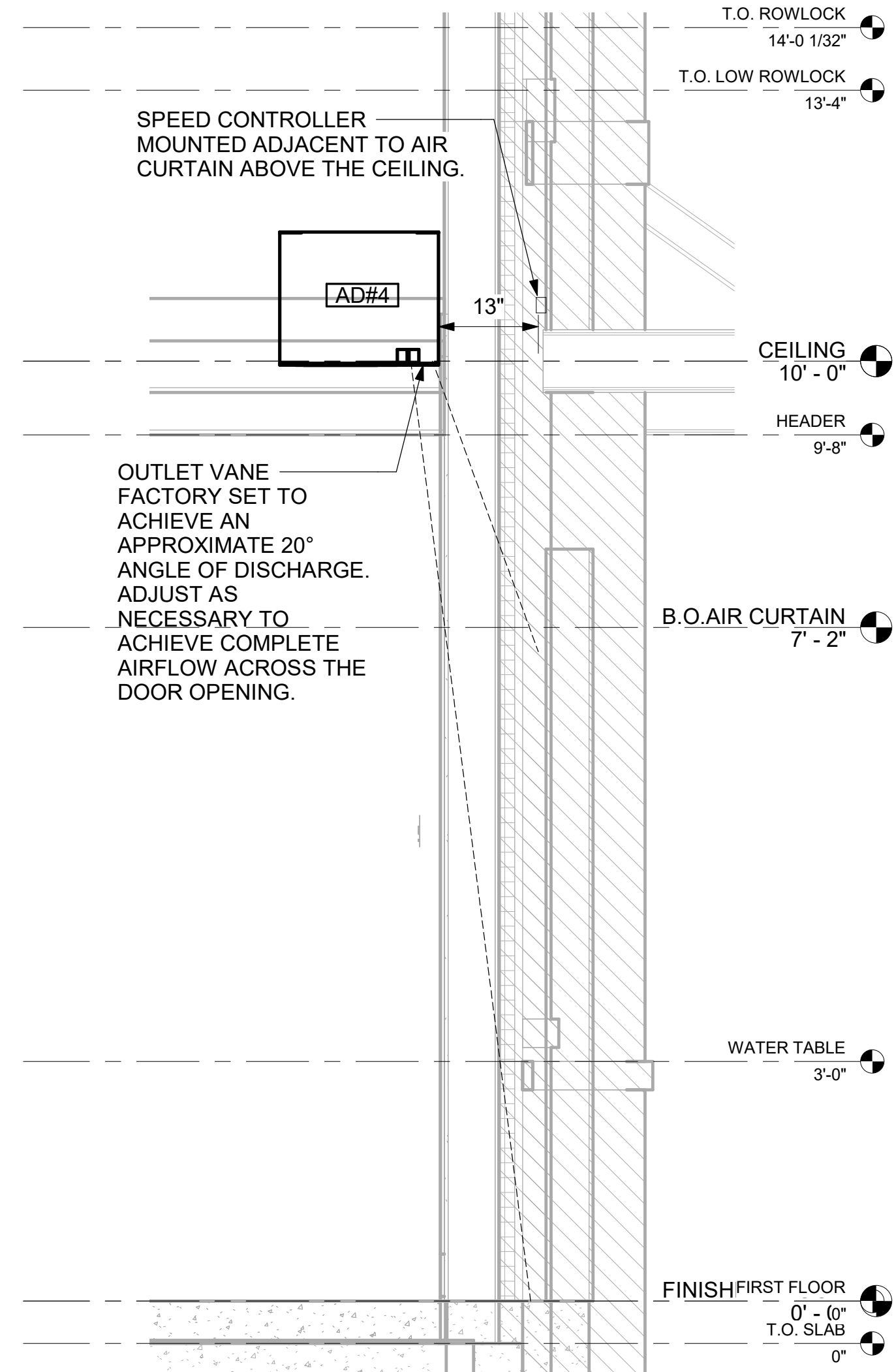
M-702



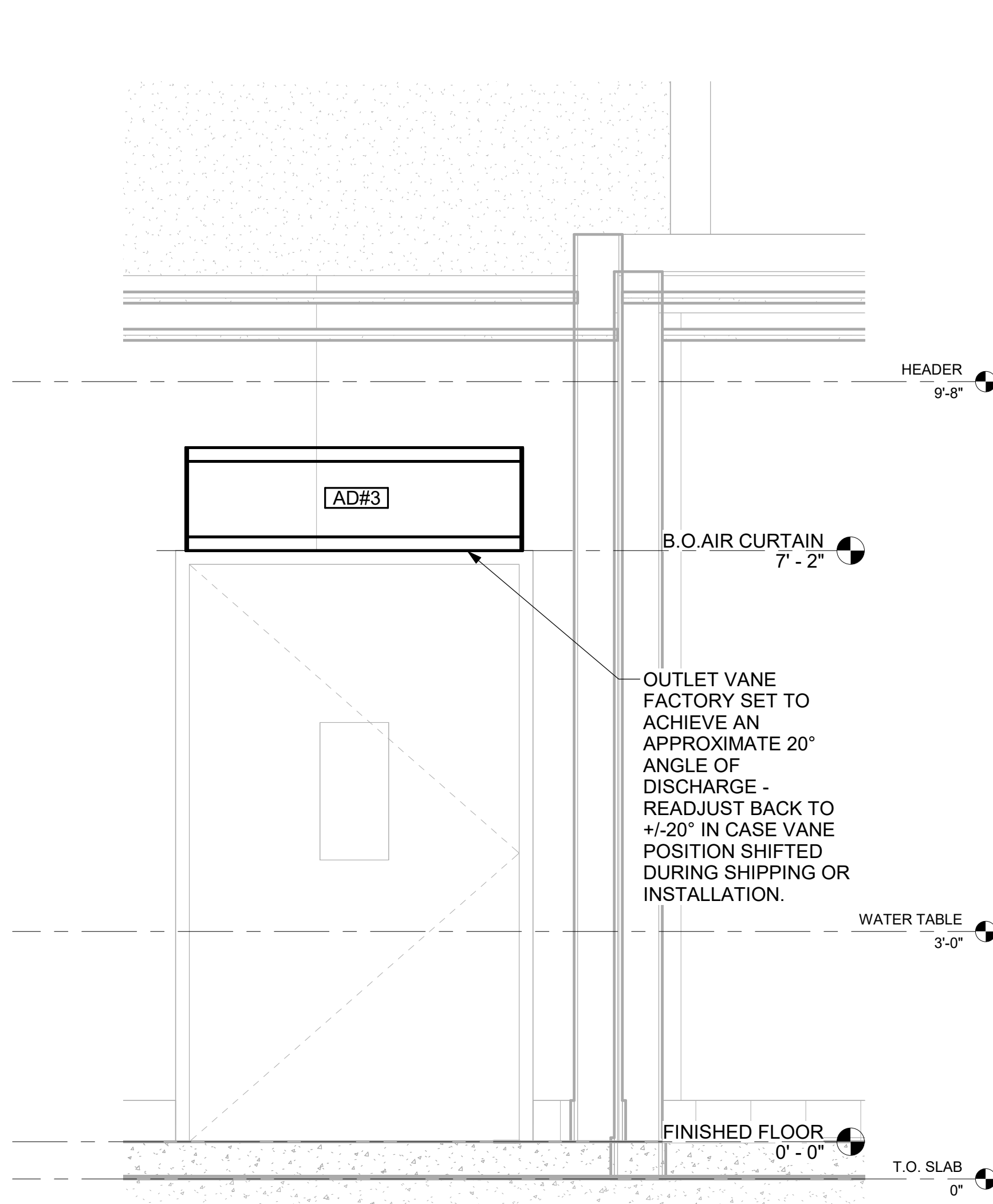
1 AD#1 FRONT VIEW
3/4" = 1'-0"



2 AD#1 SIDE VIEW
3/4" = 1'-0"



4 AD#4 SIDE VIEW
3/4" = 1'-0"

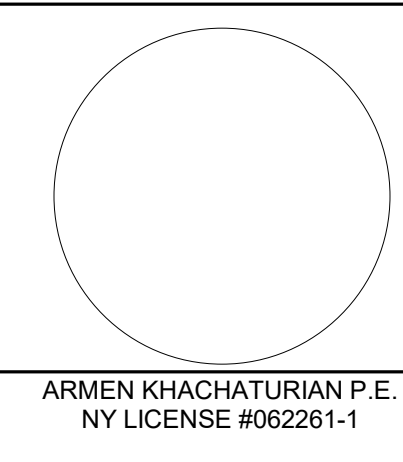


5 AD#3 FRONT VIEW
3/4" = 1'-0"



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SHEET
DETAILS

SHEET NUMBER
M-502

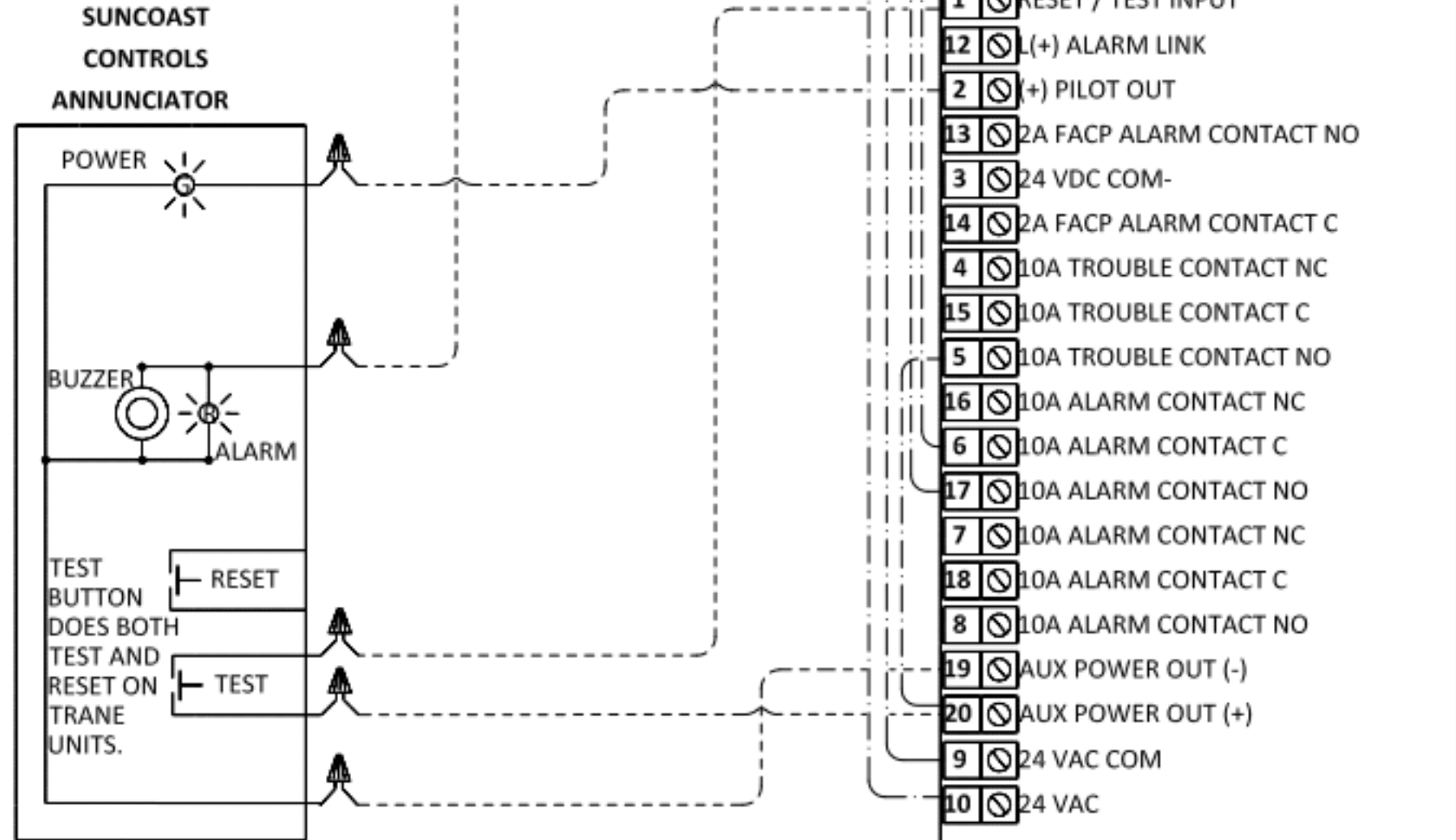
3/28/2024 12:32:46 PM Autodesk Docs:NY_04810_Expressway Plaza_2021.5_FSR#04810_Expressway Plaza_MECH.vt 30-SE-04810-M-701T-CONTROL WIRING DIAGRAMS

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

LEGEND
----- 18 AWG MIN WIRING BY MECH CONTRACTOR
----- FACTORY ANNUNCIATOR DETECTOR WIRING
----- FACTORY TRANE WIRING

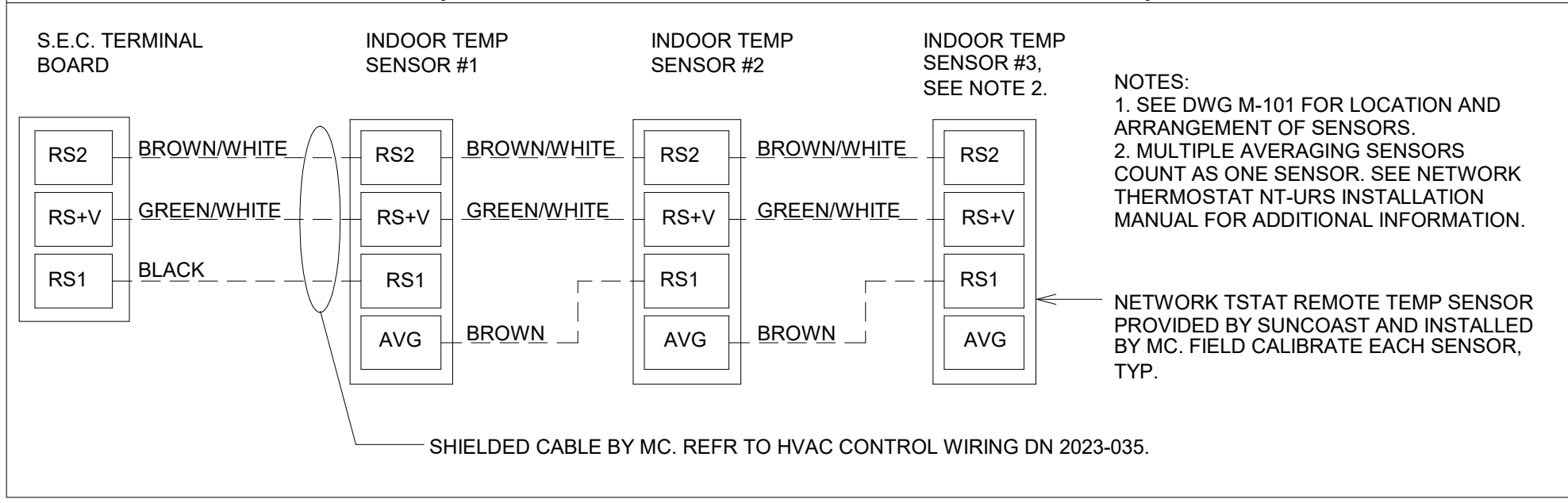
FIELD INSTALLED WIRING:
WITHIN THE ROOFTOP UNITS, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIREWAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO THE WIRING LIFE WILL NOT BE ACCEPTED.

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



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM - TRANE
NOT TO SCALE

AVERAGING SENSORS (WHERE SHOWN ON PLANS)

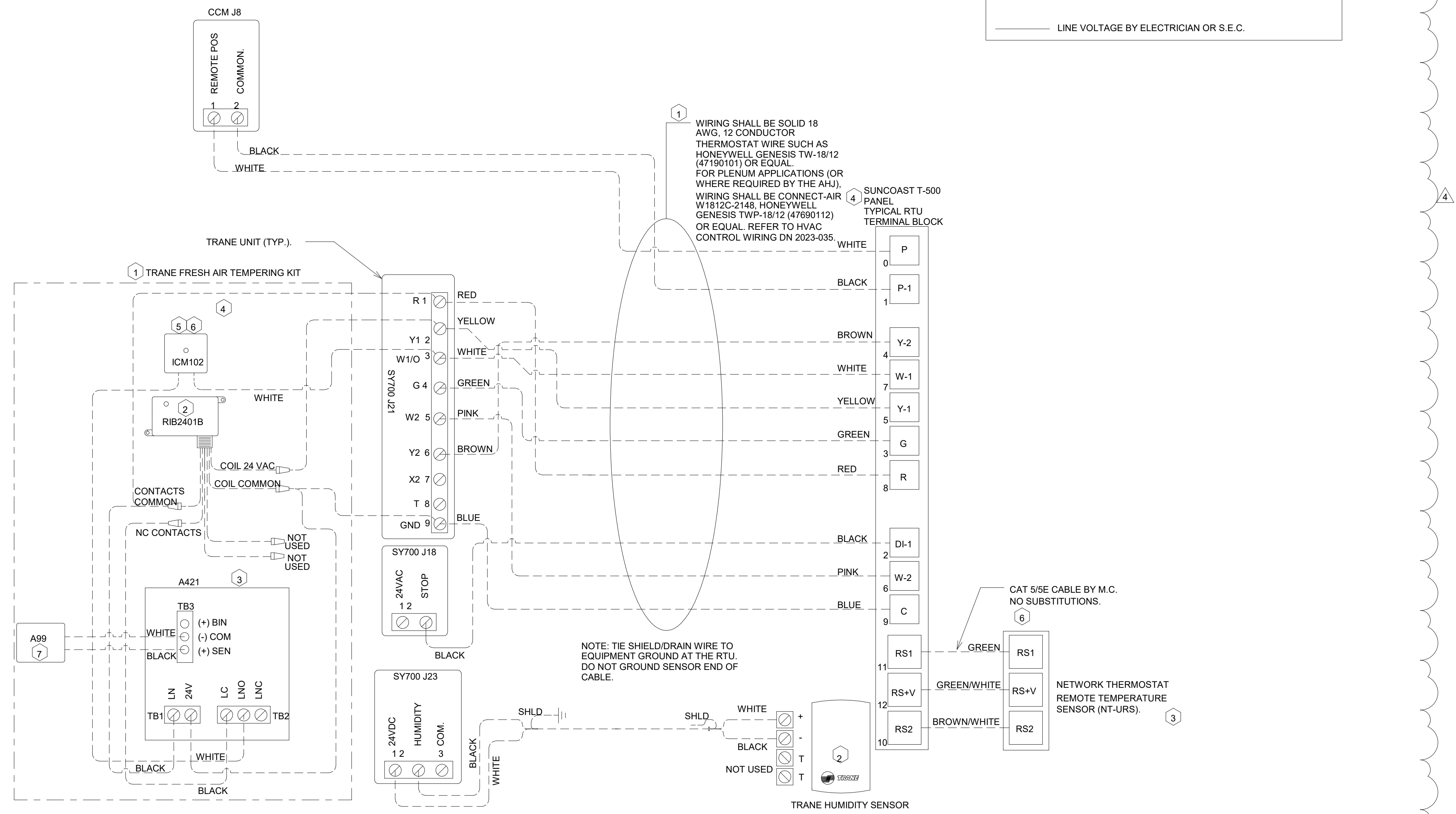


KEYED NOTES:
1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
2. WIRING TO HUMIDITY SENSOR TO BE MADE WITH SINGLE 18/2 SENSOR CABLE: W221P-2003NT ONLY.
3. NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR. SEAL CABLE PENETRATION AT ALL WALL LOCATIONS.
4. FACTORY WIRING IN SUNCOAST T-500 PANEL NOT SHOWN FOR CLARITY. SEE SUNCOAST WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
5. SY700 INTERFACE TO SET RELATIVE HUMIDITY. SET TO 60%.
6. CAT 5/6 CABLE BY M.C. NO SUBSTITUTIONS. REFER TO HVAC CONTROL WIRING DN 2023-035.

NOTES:
1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
2. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNCIATOR WIRING.
3. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
4. PROVIDE PLAC ENGRAV LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY

LEGEND
S.E.C. SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN THE KITCHEN
1 KEY NOTE REFERENCE
MC MECHANICAL CONTRACTOR
AC SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL. ENERGIZED BY PUTTING STORE SWITCH IN "STORE OCCUPIED" POSITION
AN SUNCOAST RELAY FACTORY INSTALLED AND WIRED IN CFA-500 PANEL. ENERGIZED WHEN ANSUL FIRE SUPPRESSION SYSTEM IS ACTIVATED, AS NOTED.
----- ALL LOW VOLTAGE CABLING BY MC. ONLY USE CABLE SPECIFIED. NO SUBSTITUTIONS.
----- LOW VOLTAGE WIRING BY S.E.C.
----- LINE VOLTAGE BY ELECTRICIAN OR S.E.C.

FRESH AIR TEMPERING KEYED NOTES:
1. INSTALL FRESH AIR TEMPERING KIT AS RECOMMENDED BY TRANE.
2. RIB2401B SPDT RELAY FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
3. JCI A421 TEMPERATURE CONTROLLER FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR. DIN-MOUNTED IN THE RTU CONTROL CABINET. SET TO 58F. LOCATE TRANE PROVIDED JCI A99 SENSOR IN THE SUPPLY DUCT DOWNSTREAM OF FIRST ELBOW. SECURE WIRING TO DUCT WITH TE6001-1 SENSOR DUCT MOUNTING PLATE PROVIDED BY TRANE; DO NOT RUN WIRING INSIDE DUCTWORK.
4. 18 AWG MIN. LOW VOLTAGE WIRING BY MC.
5. ICM102 TIME DELAY RELAY FURNISHED BY TRANE AND INSTALLED BY CONTRACTOR IN CONTROL CABINET OF TRANE UNIT.
6. SET TIME DELAY RELAY (ICM102) TO 2 MINUTES.
7. PROVIDE JCI TE6001-1 TEMPERATURE ELEMENT HOLDER FOR SUPPLY AIR TEMPERATURE SENSOR (A99).

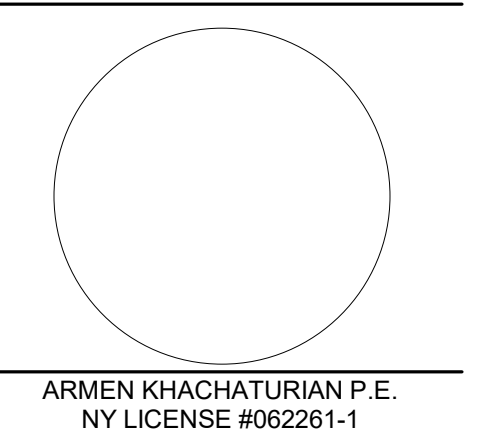


2 ROOFTOP UNIT CONTROL WIRING - TRANE
1/8" = 1'-0"



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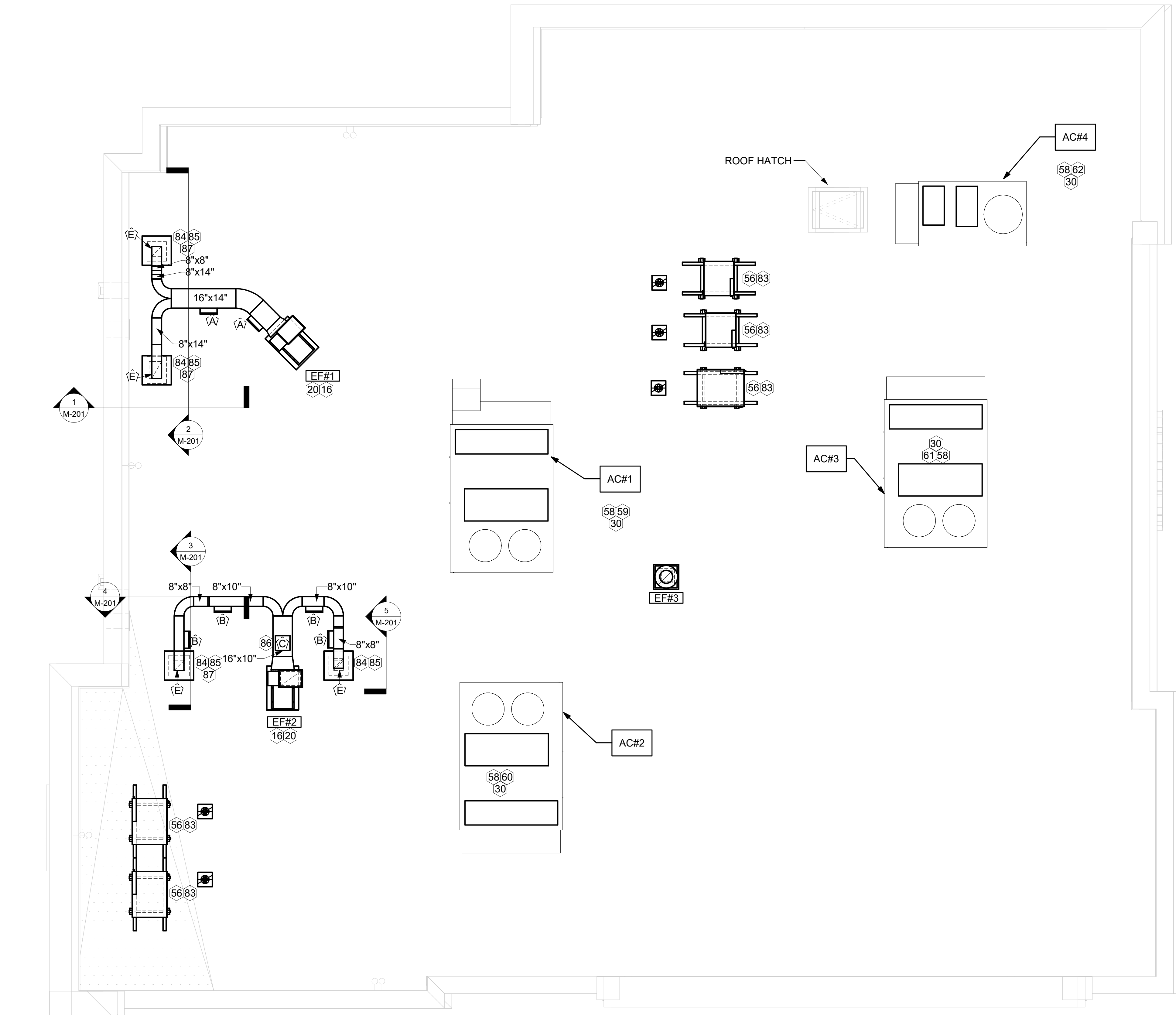
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SHEET CONTROL WIRING DIAGRAMS
SHEET NUMBER
M-701T

KEY NOTES

- 16 FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10'-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. SEE DETAIL 1/M-501.
- 20 GREASE EXHAUST DUCT LOCATED ON ROOF SHALL SLOPE 1/4" PER FOOT TOWARDS THE HOOD, THE FAN, OR A COMBINATION OF THE TWO SUCH THAT NO PORTION OF THE RADIUS ELBOW AT THE CURB IS BELOW THE CURB CAP AND SUCH THAT THE FAN BASE SETS DIRECTLY ON THE CURB RAILS. THE BOTTOM OF THE RADIUS ELBOW MAY BE EVEN OR FLUSH WITH THE CURB CAP, BUT NOT BELOW THE CAP. THE DUCT AT THE FAN MUST BE CENTERED ON THE FAN INLET. THE MC MAY ADD A VERTICAL RISER AT THE RADIUS ELBOW LOCATED AT THE DUCT CURB AS NEEDED IN ORDER TO CENTER THE DUCT ON THE FAN INLET.
- 30 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.
- 56 GC SHALL PROVIDE EQUIPMENT STANDS AS MANUFACTURED BY AVCOA OR EQUAL. STANDS SHALL BE INSTALLED PRIOR TO ROOF INSULATION SO THAT THE INSULATION IS CONTINUOUS UP TO THE PIPE POSTS. POSTS SHALL BE FLASHED IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE BLOCKING BELOW THE ROOF DECK AS REQUIRED.
- 58 SUPPLY AND RETURN AIR DUCTWORK OPENING DROPS FROM THE UNIT SHALL BE FULL SIZE OF UNIT.
- 59 TRANSITION SUPPLY AIR DUCT TO 34"x24" AND RETURN AIR DUCT TO 32"x30". REFER TO SHEET M-101 FOR CONTINUATION. TRANSITIONS SHALL BE MADE ACCORDING TO SMACNA. CONTRACTOR TO PROVIDE ALL NECESSARY ELBOWS TO CONNECT TO MAIN DUCT ABOVE CEILING.
- 60 TRANSITION SUPPLY AIR DUCT TO 30"x20" AND RETURN AIR DUCT TO 30"x20". REFER TO SHEET M-101 FOR CONTINUATION. TRANSITIONS SHALL BE MADE ACCORDING TO SMACNA. CONTRACTOR TO PROVIDE ALL NECESSARY ELBOWS TO CONNECT TO MAIN DUCT ABOVE CEILING.
- 61 TRANSITION SUPPLY AIR DUCT TO 20"x30" AND RETURN AIR DUCT TO 20"x30". REFER TO SHEET M-101 FOR CONTINUATION. TRANSITIONS SHALL BE MADE ACCORDING TO SMACNA. CONTRACTOR TO PROVIDE ALL NECESSARY ELBOWS TO CONNECT TO MAIN DUCT ABOVE CEILING.
- 62 TRANSITION SUPPLY AIR DUCT TO 18"x16" AND RETURN AIR DUCT TO 16"x18". REFER TO SHEET M-101 FOR CONTINUATION. TRANSITIONS SHALL BE MADE ACCORDING TO SMACNA. CONTRACTOR TO PROVIDE ALL NECESSARY ELBOWS TO CONNECT TO MAIN DUCT ABOVE CEILING.
- 83 DO NOT DISCHARGE OF CONDENSING UNITS INTO CONDENSER SECTION OF ROOFTOP UNITS, TYP.
- 84 ROOF CURB FOR DUCT PENETRATION. SEE DETAIL 1/M-501.
- 85 TURN DOWN THRU ROOF. SEE M-101 FOR CONTINUATION.
- 86 ACCESS DOOR ON TOP OF DUCT.
- 87 DUCT PENETRATIONS ON ROOF MUST BE AT LEAST 18" FROM ADJACENT PARAPETS.



1 EQUIPMENT ROOF PLAN -TRANE
1/4" = 1'-0"



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SHEET: EQUIPMENT ROOF PLAN
 SHEET NUMBER: **M-102**

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