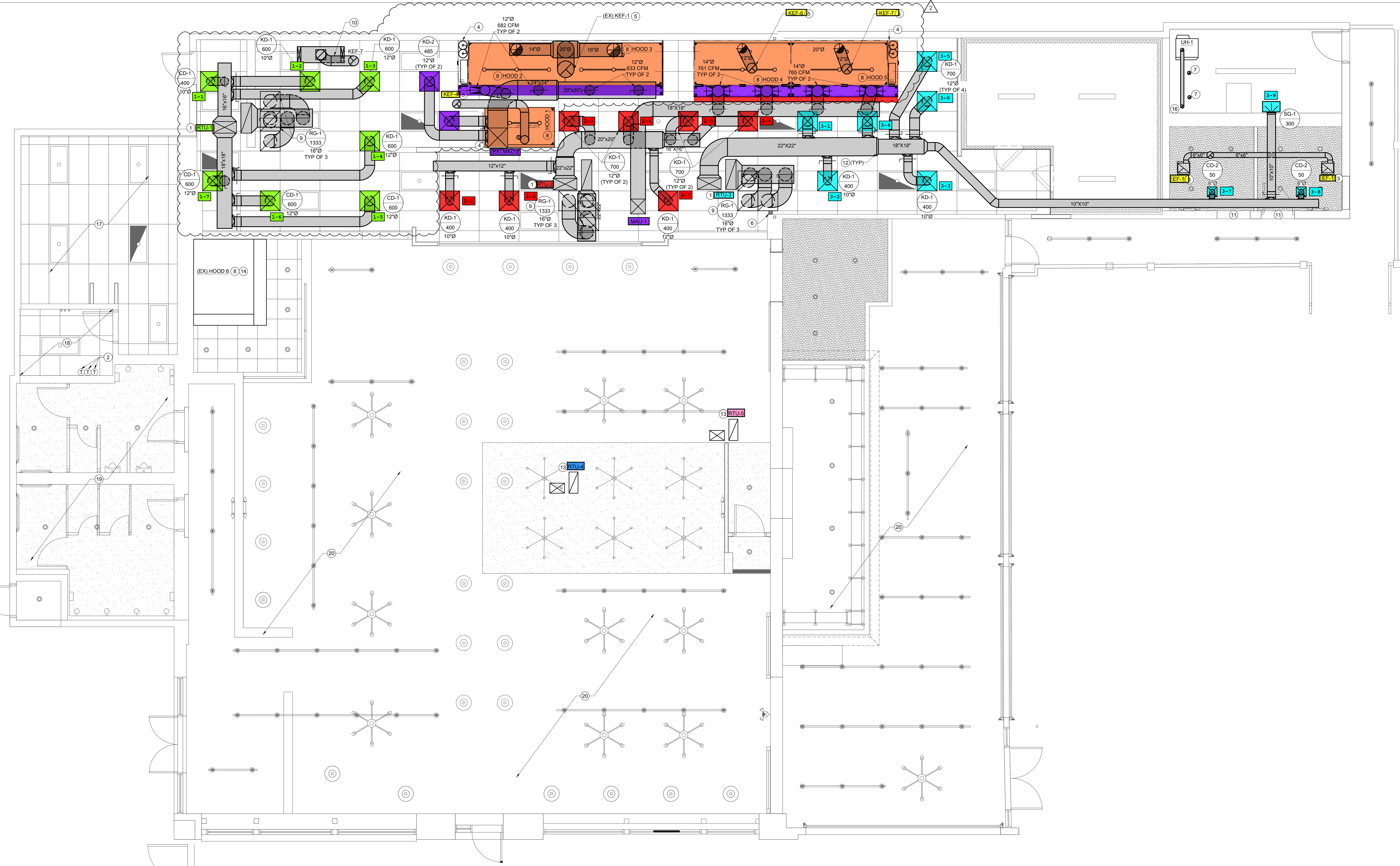


- KEY NOTES**
- PROVIDE AND INSTALL NEW ROOFTOP UNIT WITH FACTORY INSTALLED SMOKE DETECTOR. EXTEND DUCT DROPS THROUGH ROOF. BALANCE TO PROVIDE MINIMUM OUTDOOR AIR AS SCHEDULED. REPLACE AIR FILTER(S) AFTER COMPLETION OF CONSTRUCTION, PRIOR TO OCCUPANCY.
 - THERMOSTAT WITH INTEGRAL HUMIDITY SENSOR FOR NEW ROOFTOP UNITS SHALL BE WALL MOUNTED AT 48" A.F.F. COORDINATE PLACEMENT WITH ARCHITECTURAL DRAWINGS. FIELD VERIFY WITH THE OWNER'S REPRESENTATIVE FOR THE EXACT LOCATION PRIOR TO INSTALLATION. THERMOSTAT TO BE PROVIDED BY OWNER. INSTALLED BY GC WITH MIN 10 CONDUCTOR CABLE.
 - PROVIDE NEW CEILING MOUNTED CABINET FAN FOR RESTROOM EXHAUST. EXTEND TO 8"Ø EXHAUST DUCT UP THROUGH ROOF CAP AND INSECT SCREEN. FAN SHALL BE INTERLOCKED WITH RESPECTIVE RESTROOM LIGHT SWITCH FOR SIMULTANEOUS OPERATION.
 - FIRE SUPPRESSION CABINET AND ACCESSORIES FURNISHED WITH HOOD PACKAGE, AND INSTALLED BY FIRE SUPPRESSION CONTRACTOR.
 - TRANSITION UL LISTED DOUBLE WALL GREASE EXHAUST DUCT UP FROM HOOD COLLAR THRU ROOF TO EXHAUST FAN. GREASE EXHAUST DUCT SHALL MAINTAIN THE DESIGN AIR VELOCITY THROUGHOUT. FIELD VERIFY ANY REQUIRED TRANSITIONS OR OFFSETS OF EXHAUST DUCT FROM COMBUSTIBLE MATERIALS TO MAINTAIN THE MINIMUM CLEARANCES REQUIRED PER APPLICABLE CODE(S) AND MANUFACTURER'S INSTRUCTIONS. PROVIDE ACCESS DOORS AT EACH CHANGE OF DIRECTION AS REQUIRED PER CODE.

- MANUAL PUSH STATION, JUNCTION BOX, AND ELECTRIC GAS SOLENOID VALVE FOR TYPE I FIRE SUPPRESSION SYSTEM PROVIDED BY OWNER. INSTALLED BY PLUMBING, ELECTRICAL, AND FIRE SUPPRESSION CONTRACTORS. CLEARLY LABEL EACH PUSH STOP WITH CORRESPONDING HOOD(S). GENERAL CONTRACTOR SHALL VERIFY APPROVED LOCATION WITH THE LOCAL AUTHORITY AND COORDINATE THE COMPLETE INSTALLATION WITH ALL OTHER TRADES.
- WATER HEATER VENT PIPING THROUGH ROOF. MAINTAIN MINIMUM 10'-0" CLEARANCE TO ANY AIR INTAKES. ROUTE PIPING WITH MINIMAL BENDS AND LENGTHS PER MANUFACTURER'S REQUIREMENTS.
- ALL MATERIALS INSTALLED WITHIN 18" OF THE HOOD SHALL BE NON-COMBUSTIBLE.
- RETURN AIR SYSTEM SHALL BE SIZED FOR 100% AIRFLOW FOR BAROMETRIC RELIEF DURING ECONOMIZER OPERATION.
- TRANSITION 20 GAUGE TYPE 304 S.S. ALL WELDED EXHAUST DUCT FROM PANT LEG FITTING EXHAUST COLLAR TO DUCT SIZE SHOWN. EXTEND DUCT TO DISHWASHER EXHAUST FAN ON ROOF. SLOPE DUCT 1/4" PER FOOT DOWN TOWARD PANT LEG FITTING. CONNECT DISHWASHER EXHAUST TO PANT LEG FITTING. PANT FITTING PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
- UNDERCUT DOOR 3/4" FOR AIR TRANSFER.
- INSTALL DUCTWORK HIGH AS POSSIBLE EITHER TIGHT TO DECK OR BOTTOM OF STRUCTURE. EXTEND BRANCH DUCTWORK THRU TRUSS WEBBING TO AIR DEVICE(S) AS SHOWN. VERIFY DUCT ROUTE AND ANY CONSTRAINTS WITH STRUCTURE, CEILING, AND LIGHTING PRIOR TO DUCT FABRICATION.

- PROVIDE AND INSTALL NEW ROOFTOP UNIT WITH FACTORY INSTALLED SMOKE DETECTOR. EXTEND DUCT DROPS THROUGH ROOF AND CONNECT TO EXISTING SUPPLY AND RETURN DUCTWORK. VERIFY LOCATION AND CONDITION PRIOR TO WORK. BALANCE TO PROVIDE MINIMUM OUTDOOR AIR AS SCHEDULED. REPLACE AIR FILTER(S) AFTER COMPLETION OF CONSTRUCTION, PRIOR TO OCCUPANCY.
- EXISTING HOOD, EXISTING SUPPLY AND EXHAUST CONNECTIONS TO REMAIN. VERIFY LOCATION AND CONDITION PRIOR TO WORK.
- ROUTE MAKEUP AIR DUCTWORK TO PERFORATED SUPPLY PLENUM COLLAR CONNECTION. INSTALL WITH SQUARE TO ROUND AND OFFSETTING TRANSITIONS AS REQUIRED FOR PROPER AIRFLOW.
- UNIT HEATER VENT PIPING THROUGH ROOF. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM AIR INTAKES.
- REMOVE EXISTING AIR DEVICES. CLEAN AND REINSTALL IN NEW CEILING GRID IN SAME LOCATIONS. REBALANCE TO PREVIOUS AIRFLOW.
- EXISTING AIR DEVICES TO REMAIN. FIELD VERIFY CONDITIONS. CLEAR REPLACE IF NECESSARY.
- EXISTING SUPPLY DIFFUSERS AND EXHAUST FANS TO REMAIN. FIELD VERIFY CONDITIONS. REPLACE ANY COMPONENTS NECESSARY FOR PROPER OPERATIONS.
- EXISTING SUPPLY DUCTWORK, DIFFUSERS, AND GRILLES TO REMAIN.



STATE OF TEXAS
 PROFESSIONAL ENGINEERING
 AFSAR HASAN
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CHUY'S
 1520 GREENVILLE AVE
 DALLAS, TX 75206

REVISIONS:	DATE	HEALTH COMMENTS
1	12/4/2024	AS NOTED
2	12/17/2024	REVISIONS

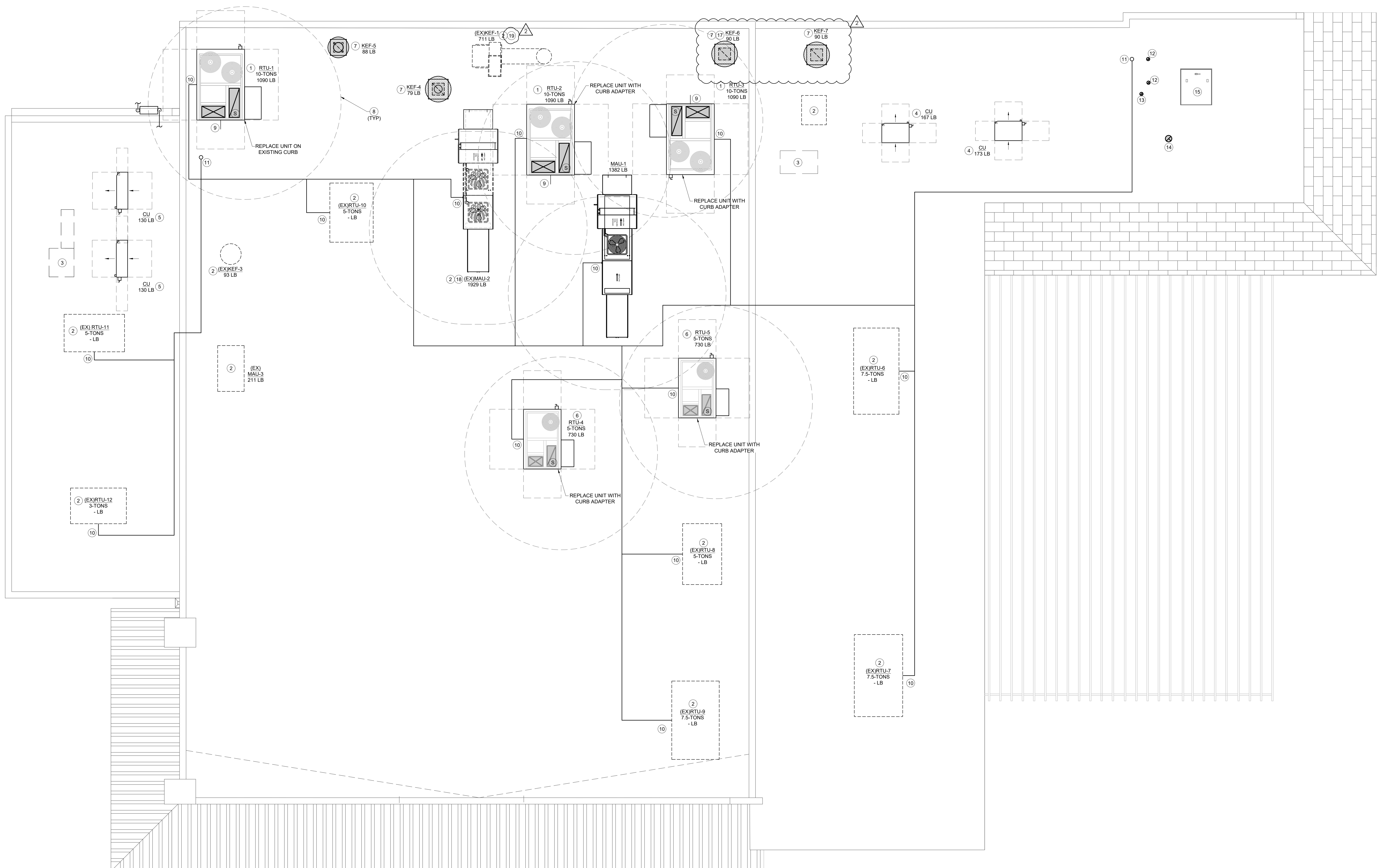
JOB#:	240-231
SCALE:	AS NOTED
DATE:	1/2/2025
DRAWN BY:	
CHECKED BY:	

- KEY NOTES**
- REPLACE EXISTING ROOFTOP UNIT WITH NEW AS SCHEDULED. PROVIDE CURB ADAPTER IF NECESSARY. BALANCE TO PROVIDE MINIMUM OUTDOOR AIR AS SCHEDULED. REPLACE AIR FILTER(S) AFTER COMPLETION OF CONSTRUCTION. PRIOR TO OCCUPANCY. FIELD VERIFY LOCATION PRIOR TO WORK.
 - EXISTING MECHANICAL EQUIPMENT TO REMAIN. FIELD VERIFY EXACT LOCATION AND CONDITION. SERVICE PER MECHANICAL REFURISH NOTES. REBALANCE TO PROVIDE MINIMUM OUTDOOR AIR, AS SCHEDULED.
 - DEMO EXISTING MECHANICAL EQUIPMENT. FIELD VERIFY LOCATION PRIOR TO WORK.
 - REPLACE EXISTING REMOTE CONDENSING UNIT IN PLACE WITH NEW AS SCHEDULED. FOR WALK-IN COOLER/FREEZER, REFERENCE KITCHEN PLANS. ROUTE REFRIGERATION PIPING TO EVAPORATOR COIL PER MANUFACTURER REQUIREMENTS. FIELD VERIFY EXACT LOCATION PRIOR TO WORK.

- REMOTE CONDENSING UNIT FOR ICE MAKER. REFERENCE KITCHEN PLANS. ROUTE REFRIGERATION PIPING TO EVAPORATOR COIL PER MANUFACTURER REQUIREMENTS.
- REPLACE EXISTING ROOFTOP UNIT PROVIDE CURB ADAPTER IF NECESSARY. CONNECT DUCT DROPS THROUGH ROOF TO EXISTING DUCTWORK. BALANCE TO PROVIDE MINIMUM OUTDOOR AIR AS SCHEDULED. REPLACE AIR FILTER(S) AFTER COMPLETION OF CONSTRUCTION. PRIOR TO OCCUPANCY.
- ROOF MOUNTED GREASE RATED KITCHEN UP-BLAST BELT DRIVE EXHAUST FAN ON VENTED EXHAUST FAN CURB. VERIFY MINIMUM 10'-0" CLEARANCE TO ANY AIR INTAKES. OWNER TO PROVIDE GREASE GUARD.
- 10'-0" CLEARANCE ZONE FOR VENTILATION AIR INTAKE.
- ROUTE CONDENSATE DRAIN WITH TRAP TO ROOF MOUNTED SPLASH PAD.
- GAS SUPPLY LINE TO ROOFTOP MECHANICAL EQUIPMENT. REUSE EXISTING IF SIZE AND CONDITION PERMIT. PROVIDE WITH SHUT-OFF VALVE, SEDIMENT TRAP, AND FLEXIBLE CONNECTION AT UNIT. REFERENCE P1.2 FOR SIZING.

- ROUTE NEW GAS LINE DOWN THROUGH ROOF. REFER TO SHEET P1.1 FOR CONTINUATION.
- WATER HEATER DIRECT VENT PIPING TERMINATION WITH MINIMUM 10'-0" CLEARANCE TO ANY AIR INTAKES.
- UNIT HEATER TYPE B VENT PIPING TERMINATION WITH MINIMUM 10'-0" CLEARANCE TO ANY AIR INTAKES.
- RESTROOM EXHAUST DUCT UP THROUGH ROOF WITH ROOF CAP AND INSECT SCREEN. PROVIDE MINIMUM 10'-0" CLEARANCE TO ANY AIR INTAKES.
- PROPOSED LOCATION OF NEW ROOF ACCESS HATCH. VERIFY PRIOR TO WORK.
- RELOCATE EXISTING KITCHEN EXHAUST FAN (EXKKEF-2). VERIFY LOCATION PRIOR TO WORK.
- PROVIDE DUCT EXTENSION FOR EXHAUST FAN TO MAINTAIN INTAKE CLEARANCE FOR RTU. REFERENCE DETAIL 12/M3.0
- MAKE ADJUSTMENTS AS NEEDED TO REBALANCE (EX)MAU-2 TO PROVIDE 3000 CFM. VERIFY IN FIELD. COORDINATE WITH CAPTIVEARE REPRESENTATIVE.

19 BALANCE EXISTING FAN EXHAUST RATE TO SCHEDULED CFM. COORDINATE WITH CAPTIVEARE TO REPLACE ANY COMPONENTS OR MAKE ADJUSTMENTS NECESSARY TO ACHIEVE THIS REDUCTION IN AIRFLOW.



THE DIMENSION GROUP

ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING • PLANNING

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TBPE FIRM REGISTRATION

1/2/2025

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MECHANICAL ROOF PLAN

M1.1

AIR BALANCE SCHEDULE		
MARK	OA	EA
RTU-1	400	
RTU-2	400	
RTU-3	400	
RTU-4	250	
RTU-5	250	
(EX) RTU-6	600	
(EX) RTU-7	600	
(EX) RTU-8	400	
(EX) RTU-9	600	
(EX) RTU-10	400	
(EX) RTU-11	400	
(EX) RTU-12	300	
MAU-1	3052	
(EX) MAU-2	3600	
(EX) MAU-3	1210	
(EX) KEF-1		4339
(EX) KEF-3		1500
KEF-4		1050
KEF-5		1488
KEF-6		1706
KEF-7		1706
EF-1		75
EF-2		75
TOTAL	12862	11939
DIFFERENCE		923

ROOFTOP UNIT SCHEDULE															
MARK	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY FAN			COOLING CAPACITY @ 95°F (MBH)		EER/SEER (SEER/SEER2)	HEATING CAPACITY @ 17°F (MBH)		ELECTRICAL DATA			WEIGHT
				CFM	E.S.P. (IN. WC)	OSA (CFM)	TOTAL	SENSIBLE		GAS INPUT (MBH)	SUPPLY TEMP (°F)	V/PH	MCA	MOCP	
RTU-1	CARRIER	48FEDN12	10	4000	0.6"		125.8	96.2	11.0/15.0	120/180	81.9/94.7	208/3	31	45	1104
RTU-2	CARRIER	48FEDN12	10	4000	0.6"		125.8	96.2	11.0/15.0	120/180	81.9/94.7	208/3	31	45	1104
RTU-3	CARRIER	48FEDN12	10	4000	0.6"		125.8	96.2	11.0/15.0	120/180	81.9/94.7	208/3	31	45	1104
RTU-4	CARRIER	48FEDB06	5	2000	0.6"		59.3	44.7	-(14.0/13.4)	67	50.9	208/3	31	45	765
RTU-5	CARRIER	48FEDB06	5	2000	0.6"		59.3	44.7	-(14.0/13.4)	67	50.9	208/3	31	45	765

NOTES:
1. PROVIDE WITH FACTORY INSTALLED ACCESSORIES: TWO-STAGE COOLING, TWO-SPEED INDOOR FAN CONTROLLER, HUMIDIZER (SUB-COOLING/HOT GAS REHEAT), STANDARD/MEDIUM STATIC FAN MOTOR, RETURN AIR SMOKE DETECTOR(S), AND NON-FUSED DISCONNECT.
2. PROVIDE WITH FIELD INSTALLED ACCESSORIES: 14-IN ROOF CURB, LOUVERED HAIL GUARDS, ULTRA LOW LEAK ECONOMIZER (FDD COMPLIANT, BAROMETRIC RELIEF, SINGLE DRY BULB SENSORS), CONDENSATE OVERFLOW SWITCH, UN-POWERED CONVENIENCE OUTLET (20A), HORN/STROBE ANNUNCIATOR (REQUIRES FIELD SUPPLIED 24VDC TRANSFORMER AND 120V POWER), REMOTE TEMPERATURE SENSOR; OWNER PROVIDED SMART/PROGRAMMABLE THERMOSTAT CAPABLE OF AUTOMATIC HEATING/COOLING CHANGEOVER AND NIGHTLY SETBACK.
3. DEMAND CONTROL VENTILATION FOR RTUs NOT REQUIRED (EXCEPTION: AT LEAST 75% OF OUTDOOR AIR PROVIDED IS MAKE-UP AIR FOR KITCHEN & RESTROOM EXHAUST HOODS).
4. UNIT SELECTIONS ARE BASED ON STANDARD EFFICIENCY, LOW GAS HEAT, AND R-410A REFRIGERANT.

(EXISTING) ROOFTOP UNIT SCHEDULE												
MARK	MAKE	MODEL	SERIAL NUMBER	TONS	GAS INPUT/OUTPUT			ELECTRICAL DATA			WEIGHT	NOTES
					CFM	E.S.P. (IN. WC)	HP	V/PH	MCA	MOCP		
(EX) RTU-6	TRANE	YSC090H3MA	181514340L	7.5	150/120	208/3	37.8	60	832			MANUFACTURE DATE: 04/2018
(EX) RTU-7	TRANE	YSC090H3MA	181514363L	7.5	150/120	208/3	37.8	60	832			MANUFACTURE DATE: 04/2018
(EX) RTU-8	DAIKIN	DSG0600901D	1808111936	5	92/74.5	208/1	41.3	60	595			MFG DATE: 2018
(EX) RTU-9	CARRIER	48TCD08A2A50A0A0	2716P67330	7.5	125/103	208/3	46.0	50	835			MFG DATE: 2016
(EX) RTU-10	DAIKIN	DSG0600903D	180539324	5	92/73.5	208/1	28.3	40	595			MFG DATE: 2018
(EX) RTU-11	DAIKIN	DSG036001D	1809179064	5	92/74.5	208/1	24.7	40	595			MFG DATE: 2018
(EX) RTU-12	CARRIER	48TCD04A2A5	0916C8531	3	72/59	208/3	22.0	30	483			MFG DATE: 2016

MAKEUP AIR UNIT SCHEDULE														
MARK	MANUFACTURER	MODEL	SUPPLY FAN			COOLING CAPACITY @ 95°F (MBH)		HEATING CAPACITY @ 17°F (MBH)		ELECTRICAL DATA			WEIGHT	NOTES
			CFM	E.S.P. (IN. WC)	HP	TOTAL	SENSIBLE	GAS INPUT (MBH)	SUPPLY TEMP (°F)	V/PH	MCA	MOCP		
MAU-1	CAPTIVE AIRE	A2-D-250-20D-MPU	3052	0.75	2.0	51.0	40.5	179.5	75°	208/3	21.4	30	1389	1,2

NOTES:
1. REFERENCE CAPTIVE AIRE DRAWINGS FOR REQUIRED ACCESSORIES.
2. REFERENCE CAPTIVE AIRE DRAWINGS FOR REQUIRED CURB.

(EXISTING) MAKEUP AIR UNIT SCHEDULE													
MARK	MANUFACTURER	MODEL	SUPPLY FAN			COOLING CAPACITY @ 95°F (MBH)		HEATING CAPACITY @ 17°F (MBH)		ELECTRICAL DATA			WEIGHT
			CFM	E.S.P. (IN. WC)	HP	TOTAL	SENSIBLE	GAS INPUT (MBH)	SUPPLY TEMP (°F)	V/PH	MCA	MOCP	
(EX) MAU-2	CAPTIVE AIRE	A3-D-500-24D-MPU	3600	0.75	5.0	120.0	79.0	346.6	75°	208/3	18.8	35	1758
(EX) MAU-3	CAPTIVE AIRE	A1-G10	1210	0.50	1.0	-	-	-	-	115/1	13.8	20	211

EXHAUST FAN SCHEDULE												
MARK	SERVICE	CFM	E.S.P. "WG	RPM	MOTOR HP	VOLTS/PH	FLA	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
KEF-4	OVEN	1050	1.20	1256	0.75	208/3	2.6	CAPTIVE AIRE	DU8SHFA	CENTRIFUGAL UPBLAST	96	1,3,5,7
KEF-5	DISHWASHER	1488	0.35	1042	0.75	115/1	8.9	CAPTIVE AIRE	DU8SHFA	CENTRIFUGAL UPBLAST	89	1,3,5,7
KEF-6	K114 LEFT	1706	1.10	1386	.75	115/1	8.9	CAPTIVE AIRE	DU8SHFA	CENTRIFUGAL UPBLAST	90	1,3,5,7
KEF-7	K114 RIGHT	1706	1.10	1386	.75	115/1	8.9	CAPTIVE AIRE	DU8SHFA	CENTRIFUGAL UPBLAST	90	1,3,5,7
EF-1	RESTROOM	75	0.25	1050	128W	115/1	10.2	GREENHECK	SP-8150	CEILING CABINET FAN	10	2,4,6
EF-2	RESTROOM	75	0.25	1050	128W	115/1	10.2	GREENHECK	SP-8150	CEILING CABINET FAN	10	2,4,6

NOTES:
1. WEATHER PROOF DISCONNECT SWITCH AND INTERNAL WIRING SHALL BE FACTORY INSTALLED.
2. ELECTRICAL CONTRACTOR SHALL INTERLOCK WITH TIMECLOCK TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.
3. PROVIDE FACTORY AVAILABLE GREASE BOX.
4. PROVIDE GRAVITY BACKDRAFT DAMPER.
5. FURNISHED WITH KITCHEN HOOD PACKAGE, INSTALLED BY MECHANICAL CONTRACTOR.
6. OWNER TO PROVIDE GREASE GUARD.
7. ELECTRICAL CONTRACTOR SHALL INTERLOCK FAN TO OPERATE WITH KITCHEN LIGHTS.

(EXISTING) EXHAUST FAN SCHEDULE												
MARK	SERVICE	CFM	E.S.P. "WG	RPM	MOTOR HP	VOLTS/PH	FLA	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
(EX) KEF-1	TYPE I HOOD	4339	1.75	1147	7.50	208/3	21.1	CAPTIVE AIRE	USB1240D-RM	UTILITY	711	
(EX) KEF-2	TYPE II HOOD	2959	1.10	1059	1.50	208/3	4.8	CAPTIVE AIRE	NCA49FA	CENTRIFUGAL UPBLAST	498	
(EX) KEF-3	TYPE I HOOD	1500	0.85	1147	0.75	115/1	8.8	CAPTIVE AIRE	DU8SHFA	CENTRIFUGAL UPBLAST	93	

EXHAUST HOOD SCHEDULE												
MARK	MANUFACTURER	MODEL	TYPE	SERVICE	DUTY	CFM/FT	CFM	RISER	WEIGHT	NOTES		
HD-1	CAPTIVE AIRE	4824 ND-2	I	OVEN	MEDIUM	175	1050	10"	443	1		
HD-2	CAPTIVE AIRE	5424 ND-2-PSP-F	I	CHARBROILER	HEAVY	200	1950	14"Ø	803	1		
HD-3	CAPTIVE AIRE	5424 ND-2-PSP-F	I	FRYERS/GRIDDLE	HEAVY	245	2389	16"Ø	478	1		
HD-4	CAPTIVE AIRE	5424 ND-2-PSP-F	I	TILT SKILLET	HEAVY	175	1706	12"Ø	527	1		
HD-5	CAPTIVE AIRE	5424 ND-2-PSP-F	I	RANGE	HEAVY	175	1706	12"Ø	849	1		
(EX) HD-6	CAPTIVE AIRE	7230 ND-2-PSP-F	I	GRIDDLE	MEDIUM	200	1500	14"	671	-		


NOTES:
1. FURNISHED WITH KITCHEN HOOD PACKAGE, INSTALLED BY MECHANICAL CONTRACTOR.

MECHANICAL VENTILATION BY ZONE CLASSIFICATION												
OCCUPANCY CLASSIFICATION	CONDITION AREA (SQFT)	CFM PER SQFT	MIN CFM BY AREA	OCCUPANT DENSITY (P/1000 SQFT)	OCCUPANTS	CFM PER OCCUPANT	MIN CFM BY OCCUPANT	TOTAL CFM	EFFECTIVENESS CFM (E±0.8)	EXHAUST RATE (CFM PER FIXTURE/SQFT)	FIXTURES	MIN EXHAUST CFM
DINING ROOM	3593	0.18	647	70	252	7.5	1890	2537	3171	0.0	0	0
SALES	222	0.12	27	15	4	7.5	30	57	71	0.0	0	0
CORRIDOR	631	0.06	38	0	0	0.0	0	38	47	0.0	0	0
KITCHEN	350	0.12	42	20	7	7.5	53	95	118	0.7	0	245
STORAGE	638	0.12	77	0	0	0.0	0	77	96	0.0	0	0
RESTROOM - INTERMITTENT	478	0.00	0	0	0	0.0	0	0	0	70.0	3	210
MAIN ENTRY LOBBY	250	0.06	15	10	3	5.0	15	30	38	0.0	0	0
OFFICE	62	0.06	4	5	1	5.0	5	9	11	0.0	0	0
PREP AREA	1059	0.18	191	10	11	5.0	55	246	307	0.0	0	0
TOTALS	7283	-	845	-	266	-	1988	2832	3540	-	-	455

MECHANICAL LEGEND		
SYMBOL	ABBR	DESCRIPTION
☒	CD	CEILING DIFFUSER - SUPPLY
☒	CD	CEILING DIFFUSER BELOW DUCT - SUPPLY
☒	SAD	RISER - SUPPLY AIR DUCT
☒	SAD	DROP - SUPPLY AIR DUCT
☒	CR	CEILING REGISTER - RETURN
☒	CR	CEILING REGISTER BELOW DUCT - RETURN
☒	RAD	RISER - RETURN AIR DUCT
☒	RAD	DROP - RETURN AIR DUCT
☒	CE	CEILING REGISTER - EXHAUST
☒	CE	CEILING REGISTER BELOW DUCT - EXHAUST
☒	EAD	RISER - EXHAUST AIR DUCT
☒	(L)	LINED DUCTWORK
☒	VD	MANUAL VOLUME DAMPER
☒	FC	FLEXIBLE CONNECTION
☒		NEW DUCT
☒		AIR DEVICE DESIGNATION
☒	TSTAT	PROGRAMMABLE THERMOSTAT
☒	SENS	REMOTE TEMPERATURE SENSOR
☒	C	CO2 SENSOR
☒	H	HUMIDITY SENSOR
☒	D	SMOKE DETECTOR
☒	FSD	FIRE SMOKE DAMPER
☒	POC	POINT OF CONNECTION
☒	CFM	CUBIC FEET PER MINUTE
☒	SIA	SUPPLY AIR
☒	OIA	OUTSIDE AIR
☒	EIA	EXHAUST AIR
☒	S.P.	STATIC PRESSURE
☒	FOH	FRONT OF HOUSE
☒	BOH	BACK OF HOUSE

MECHANICAL GENERAL NOTES	
1.	NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2.	THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
3.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
4.	PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. PROVIDE ONE YEAR COMPRESSOR WARRANTY FOR AC UNITS. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
5.	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
6.	THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
7.	COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES. AIR DEVICES LOCATED IN QUIET AREAS SHALL BE PAINTED PER THE ARCHITECTURAL DRAWINGS FINISH SCHEDULE. ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BLACK FOR LINE OF SIGHT.
8.	THERMOSTATS AND REMOTE TEMPERATURE SENSORS SHALL BE LOCATED AT 5' ± F.F. EXACT LOCATIONS SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL-MOUNTED WORK OR PROXIMITY TO HEAT PRODUCING EQUIPMENT.
9.	ALL SUPPLY, RETURN, AND RESTROOM EXHAUST DUCTWORK SHALL BE INTERNALLY LINED AND FINISHED WITH MINIMUM R-4.2" INSULATION WITH VAPOR BARRIER. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. REFER TO ARCHITECTURAL DRAWINGS FOR DUCT PAINT OR COLOR SPECIFICATION.
10.	ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED BY APPROVED METHODS.
11.	ANY FLEXIBLE DUCTS SHALL BE INSTALLED IN CONCEALED SPACES ONLY. THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 5' ±. ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO BRANCH RUNS AND FITTINGS WITH A PAN-DUIT-TYPE BAND, AND SHALL NOT BE ATTACHED DIRECTLY TO THE AIR DEVICE COLLAR.
12.	ALL HVAC SUPPLY AND RETURN EXPOSED DUCTWORK SHALL BE INTERNALLY LINED AND FINISHED WITH MINIMUM R-4.2" INSULATION WITH VAPOR BARRIER. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. REFER TO ARCHITECTURAL DRAWINGS FOR DUCT PAINT OR COLOR SPECIFICATION.
13.	ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM R-6.0, 2" INSULATION WITH VAPOR BARRIER PER INTERNATIONAL ENERGY CONSERVATION CODE. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
14.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
15.	SUPPLY, RETURN, AND RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATERTIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTWORK IS NOT ALLOWED (INO).
16.	ALL TYPE-1 GREASE EXHAUST DUCTS SHALL BE EITHER UL LISTED FACTORY BUILT DOUBLE WALL DUCT, OR NFPA 96 APPROVED 16 GA. WELDED BLACK IRON, EXTERNALLY WELDED WITH LIQUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS.
17.	PITCH ALL HORIZONTAL GREASE AND CONDENSATE DUCTWORK UNIFORMLY BACK TOWARDS THE RESPECTIVE HOOD OR APPLIANCE AT A MINIMUM 1/4" PER FOOT (NOT TO EXCEED 75'-0").
18.	ALL TYPE-1 WELDED BLACK IRON GREASE EXHAUST DUCTS SHALL BE DOUBLE WRAPPED WITH U.L. LISTED FIRE WRAP SIMILAR TO 3M FIRE BARRIER DUCT WRAP #15+ IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. EACH GREASE DUCT RISER SHALL BE WRAPPED TO THE FULL EXTENT POSSIBLE FROM THE HOOD CURB CONNECTION UP TO THE TERMINATION AT THE EXHAUST FAN INLET. ALL GREASE EXHAUST FAN ROOF CURBS SHALL BE VENTED PER NFPA 96. PROVIDE REQUIRED ACCESS FOR SERVICING AND CLEANING.
19.	ROOF CURBS FOR EXHAUST FANS SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE HOOD AND FAN PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
20.	ROOF CURBS FOR ROOFTOP UNITS SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE HVAC EQUIPMENT PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD ASSEMBLE THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
21.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK PLEATED MERV 13 THROUGH AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
22.	A FULL CERTIFIED MECHANICAL AIR TEST AND BALANCE REPORT SHALL BE PERFORMED BY A CHUY'S APPROVED CONTRACTOR.
23.	PER INTERNATIONAL MECHANICAL CODE WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE UBC. SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING. SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
24.	MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.

MECHANICAL REFURBISH NOTES	
WHERE EXISTING HVAC UNITS ARE TO BE UTILIZED, THE FOLLOWING WORK SCOPE SHALL BE COMPLETED AND A COMPLETE REPORT SHALL BE PREPARED WITH RECOMMENDATIONS FOR IMMEDIATE REPAIRS REQUIRED:	
<ul style="list-style-type: none"> VISUAL INSPECTION OF UNITS AND REVIEW FOR ANY LEAKS. TEST HEAT PACKAGE. CHECK TENSION AND ALIGNMENT OF BELTS. REPLACE DAMAGED BELTS, HOSES AND FABRIC/RUBBER COATED ITEMS THAT ARE SUBJECT TO WEAR. LUBRICATE SHAFT AND MOTOR BEARINGS. LEAK CHECK AND TEST COMPRESSORS FOR OPERATION. CHECK AND RECORD SUCTION AND DISCHARGE PRESSURE. CHECK AND RECORD AMPERAGE ACROSS BLOWER. CHECK AND TIGHTEN ELECTRICAL WIRING AND CONNECTIONS AS REQUIRED. CHECK CONTACTORS. INSPECT AND TEST SMOKE DETECTORS. TEST HEAT PACKAGE. POWER WASH CONDENSER COILS, AND CLEAN EVAPORATOR AS NECESSARY. CHEMICALLY CLEAN/REPAIR CONDENSATE LINES AND/OR OVERFLOW PAN AND MOISTURE SENSOR. REPLACE AIR FILTERS. REPLACE THERMOSTAT. CREATE AN ANALYSIS OF EACH PIECE OF EQUIPMENT AND ADVISE IF UNITS ARE STILL UNDER WARRANTY. 	
AFTER ALL WORK HAS BEEN COMPLETED, GO TO SUPPLY PROJECT MANAGER WITH COPIES OF THE WORK ORDERS FOR EACH UNIT FROM TECHNICIAN SHOWING WHAT WORK HAS BEEN COMPLETED.	



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1/2/2025

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12/4/2024 HEALTH COMMENTS

12/17/2024 REVISIONS

JOB#: 240-231

SCALE: AS NOTED

DATE: 1/2/2025

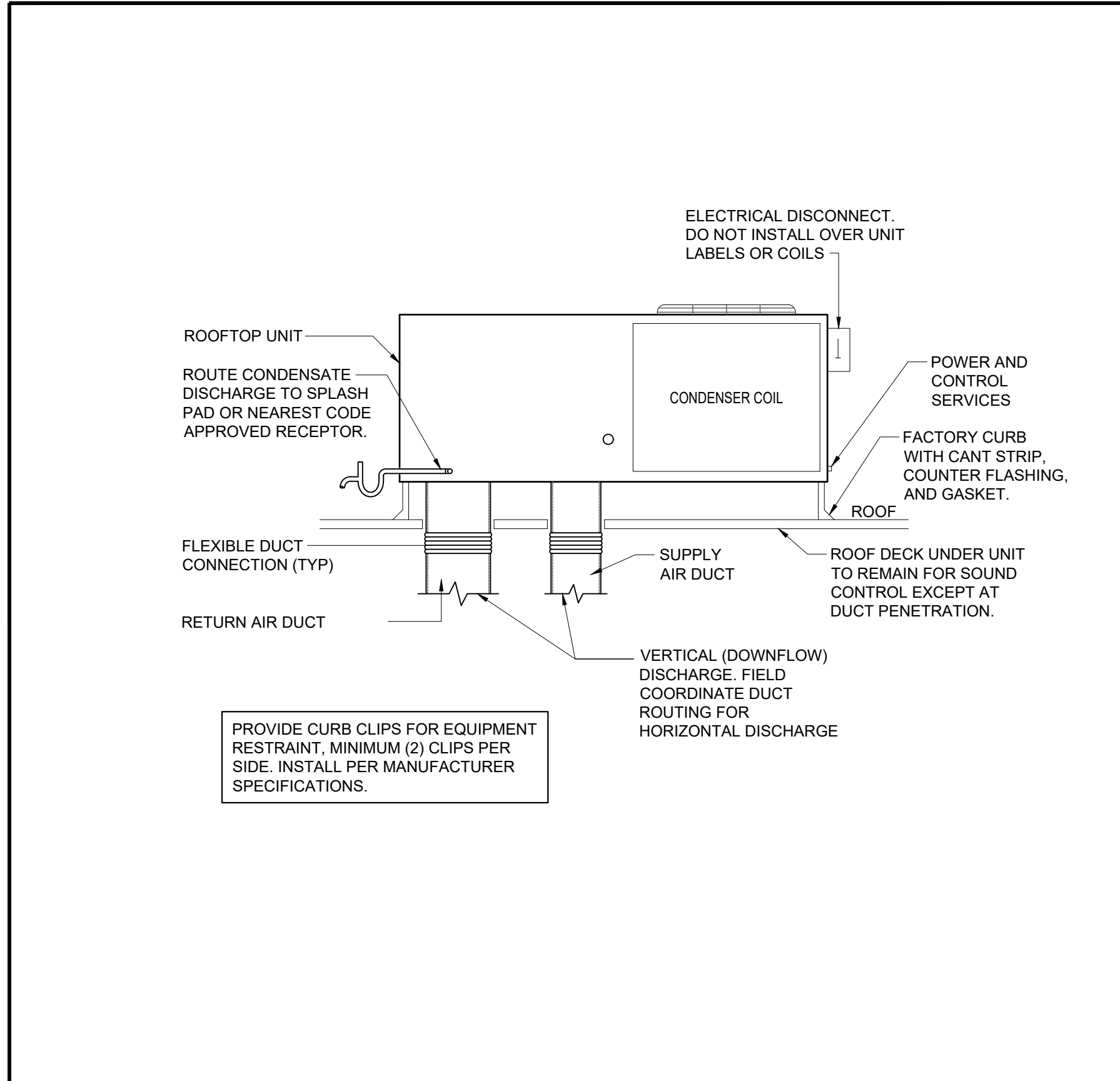
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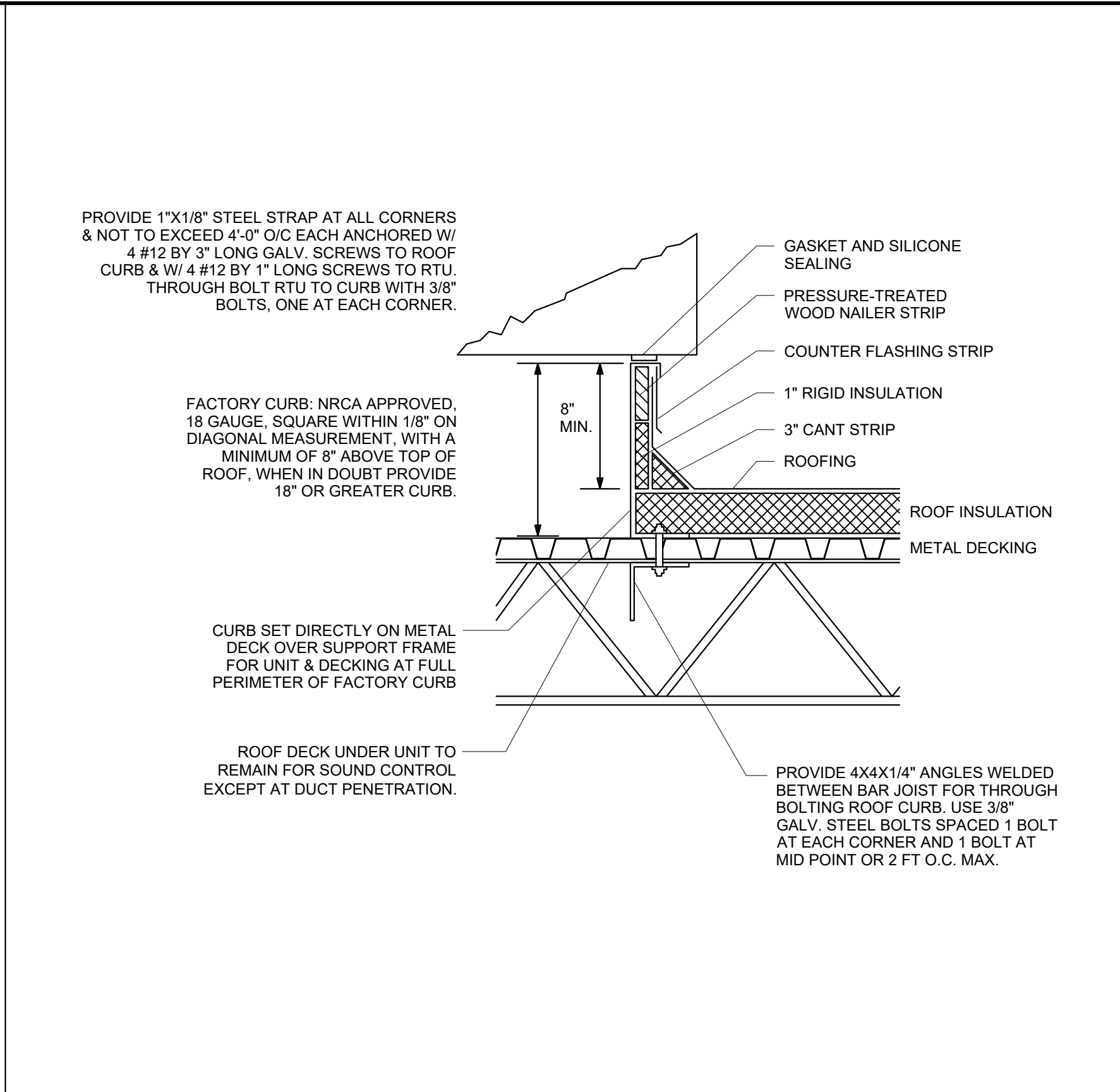
1520 GREENVILLE AVE
DALLAS, TX 75206

MECHANICAL SCHEDULES

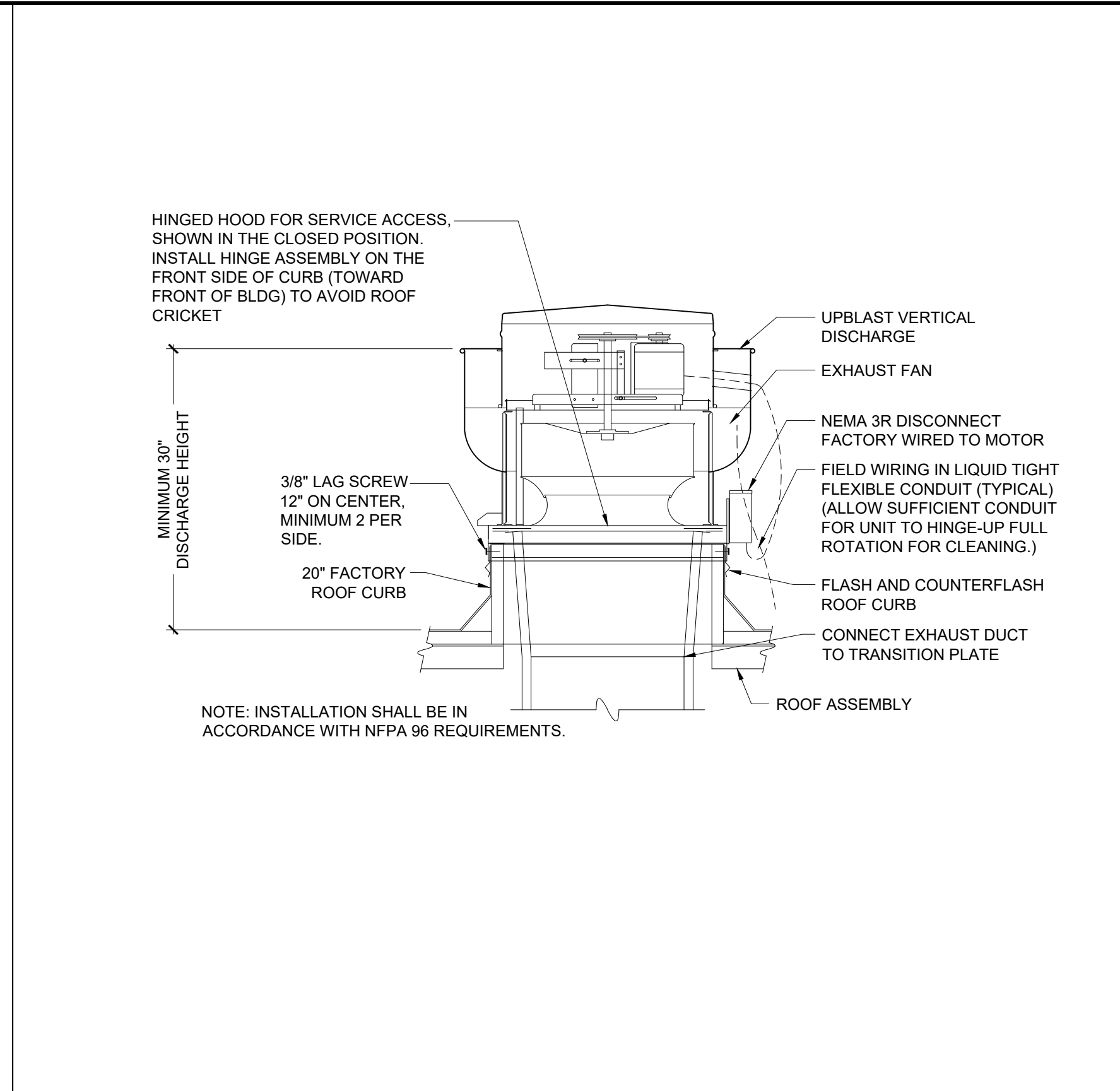
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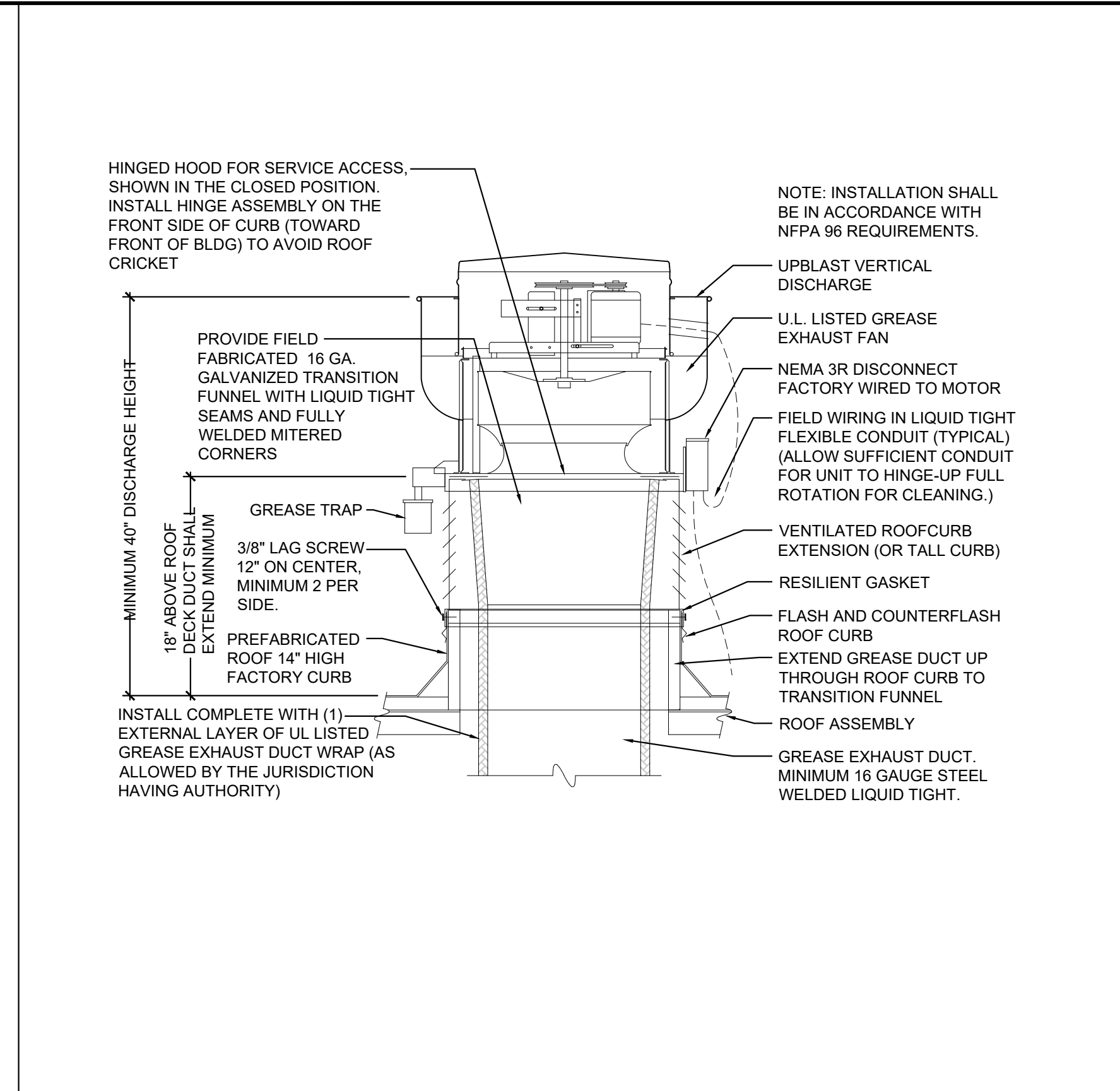
ROOFTOP UNIT DETAIL
SCALE: NONE 1



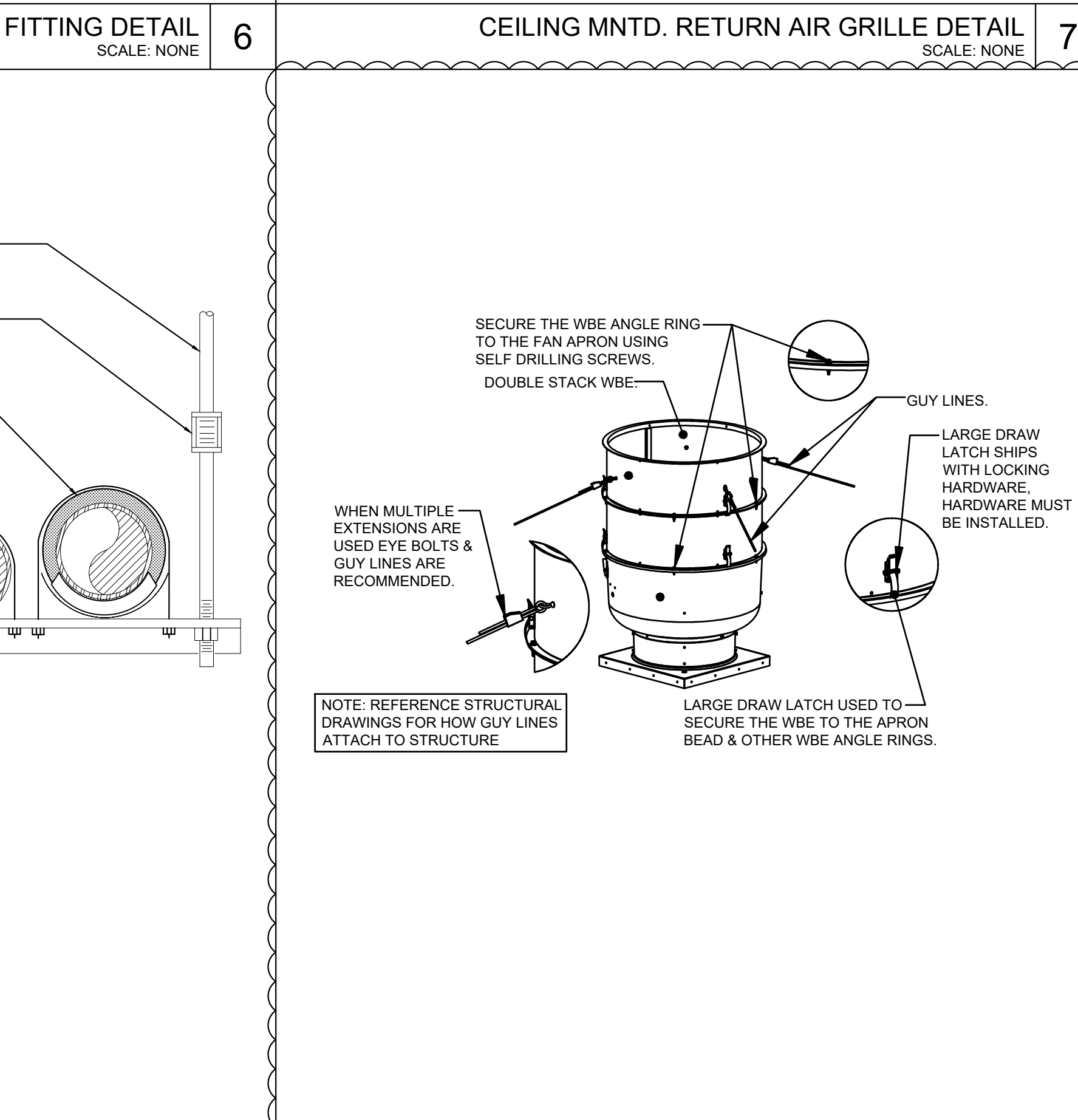
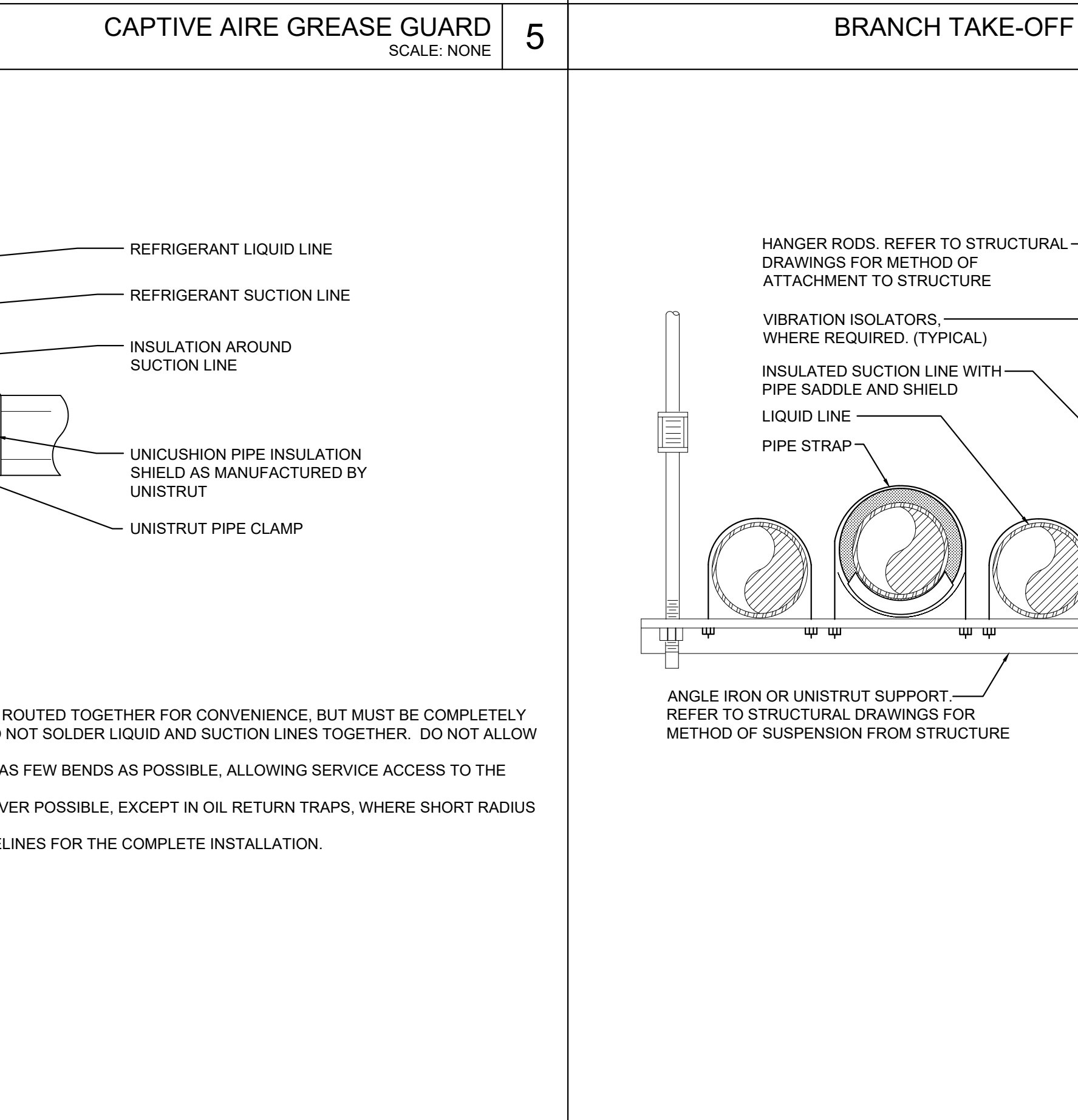
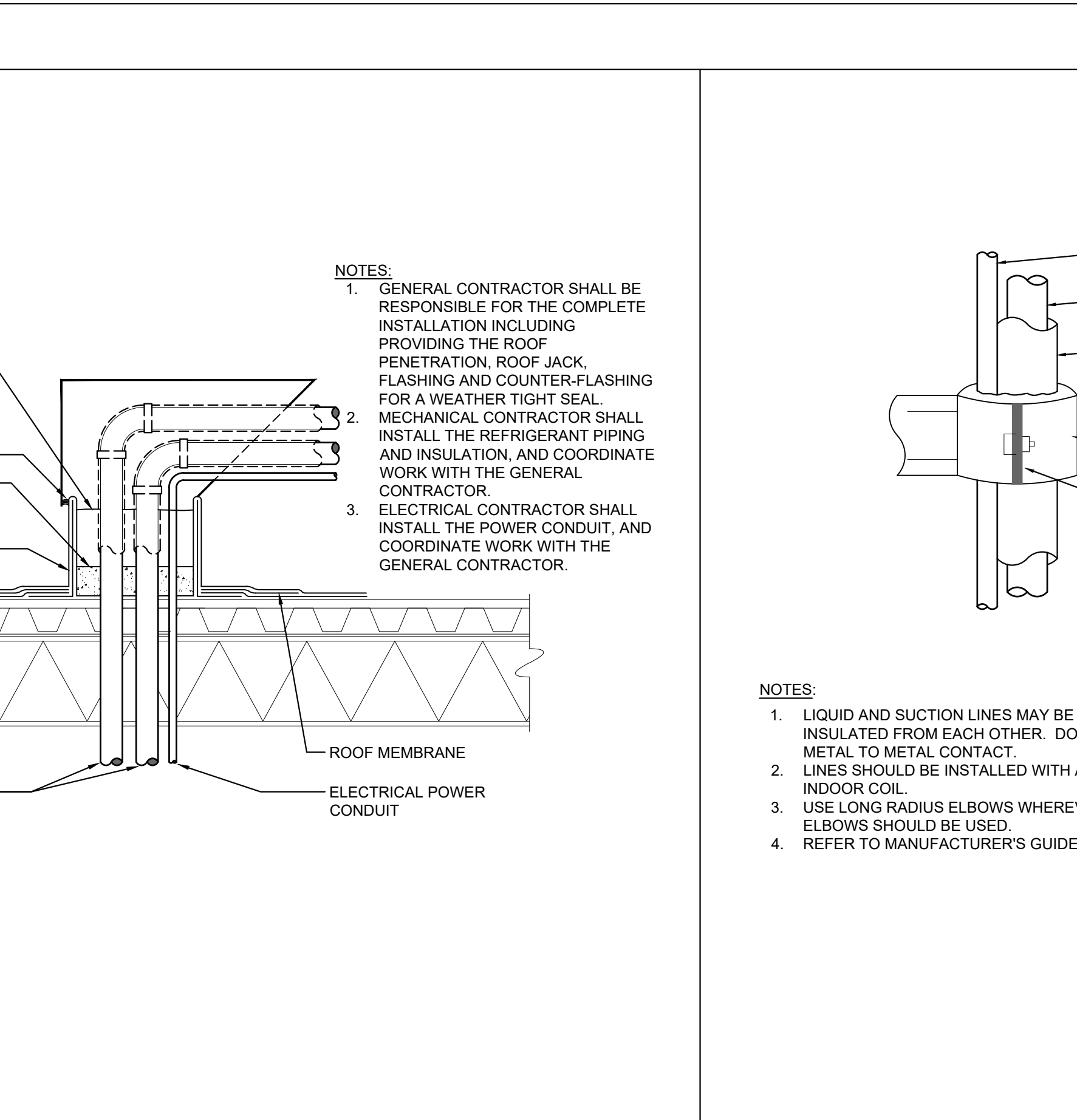
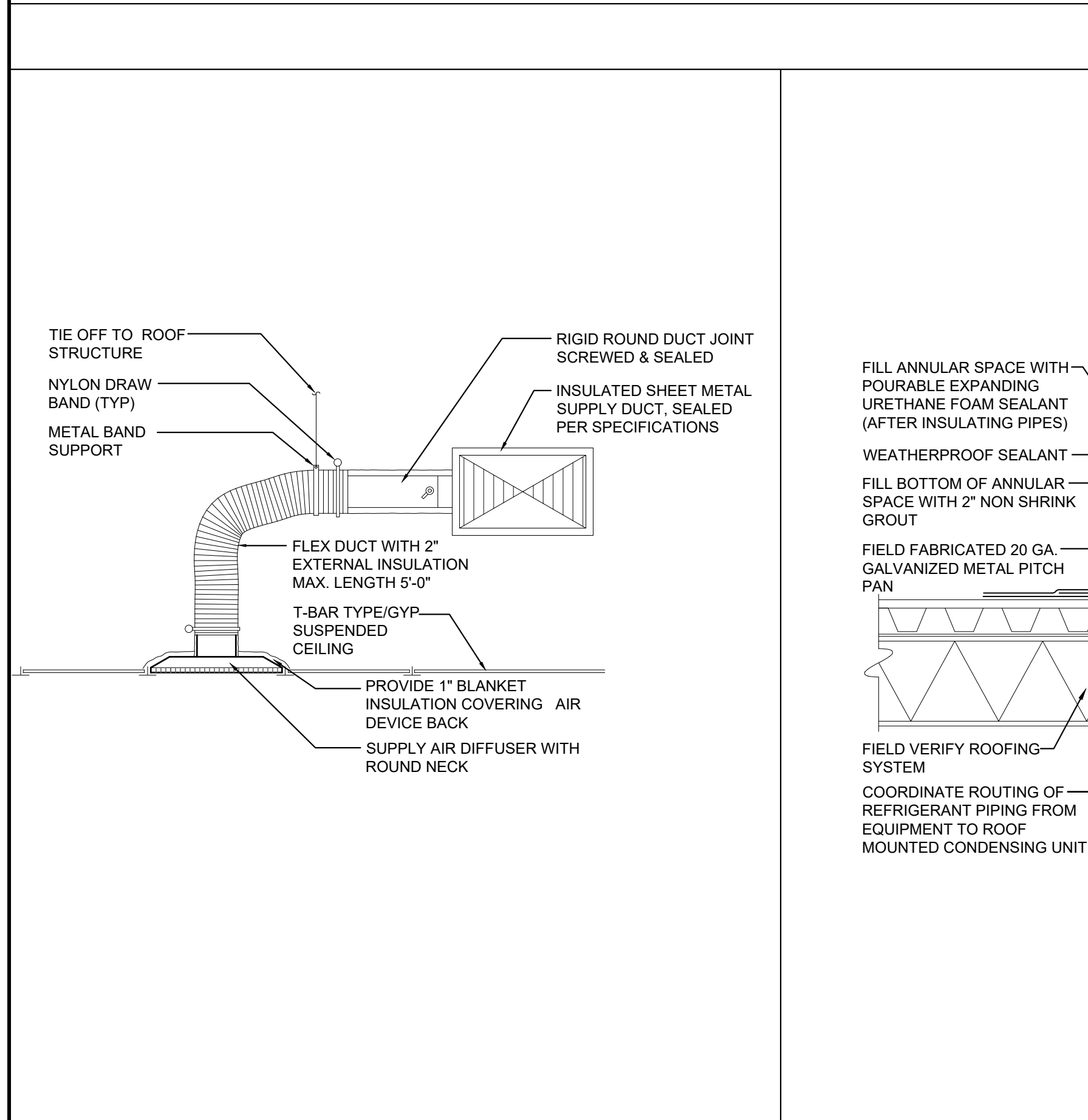
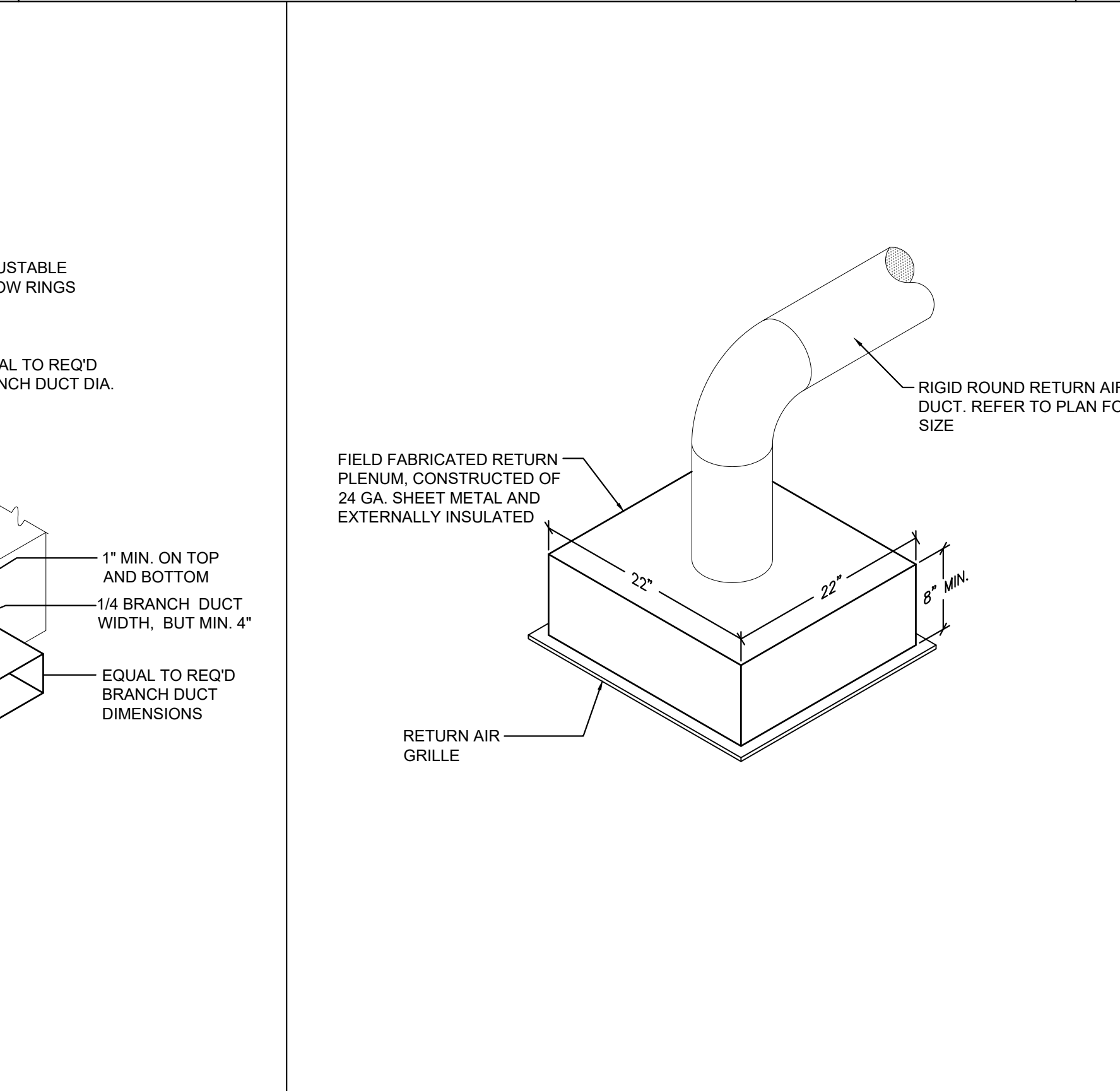
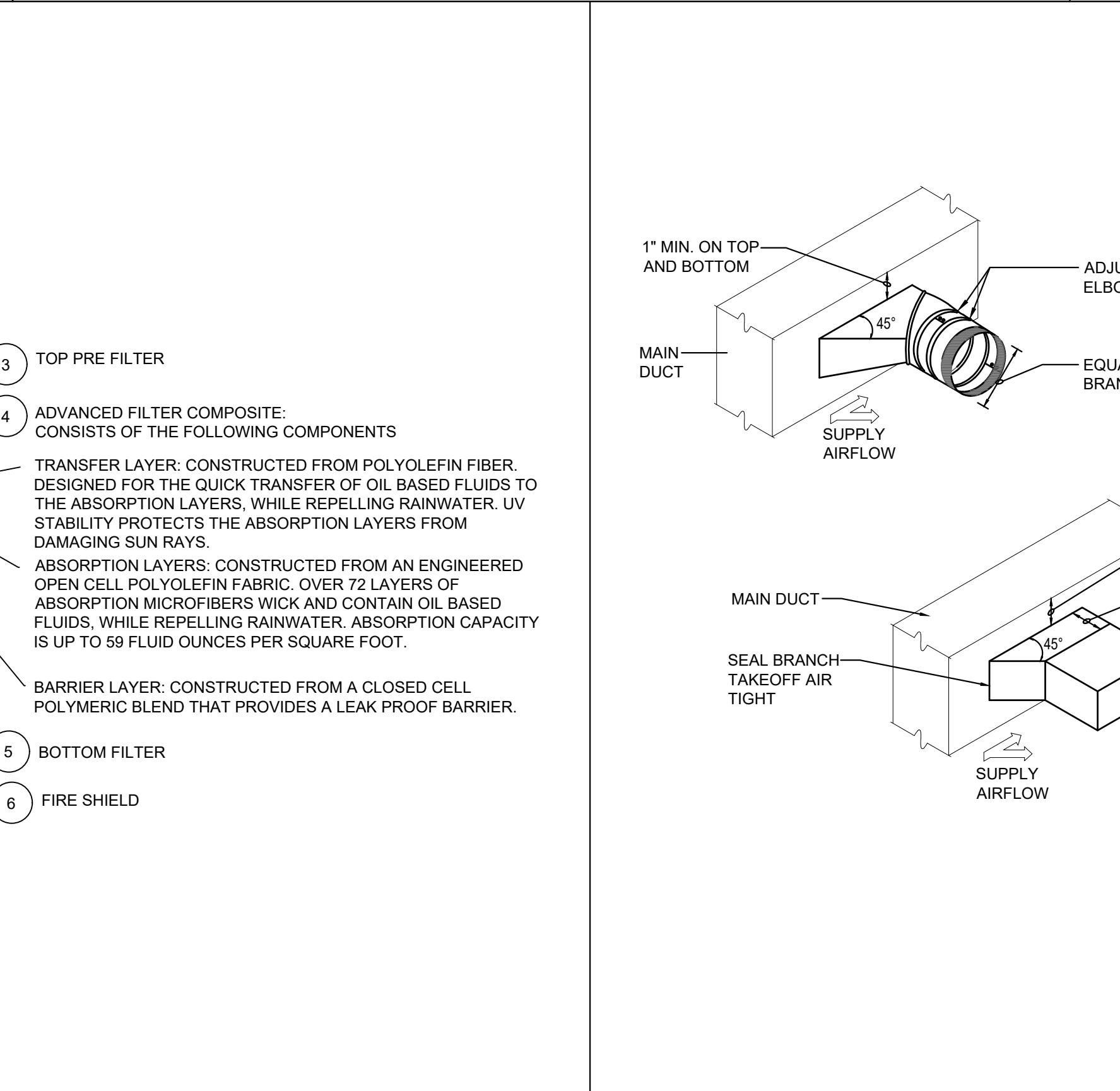
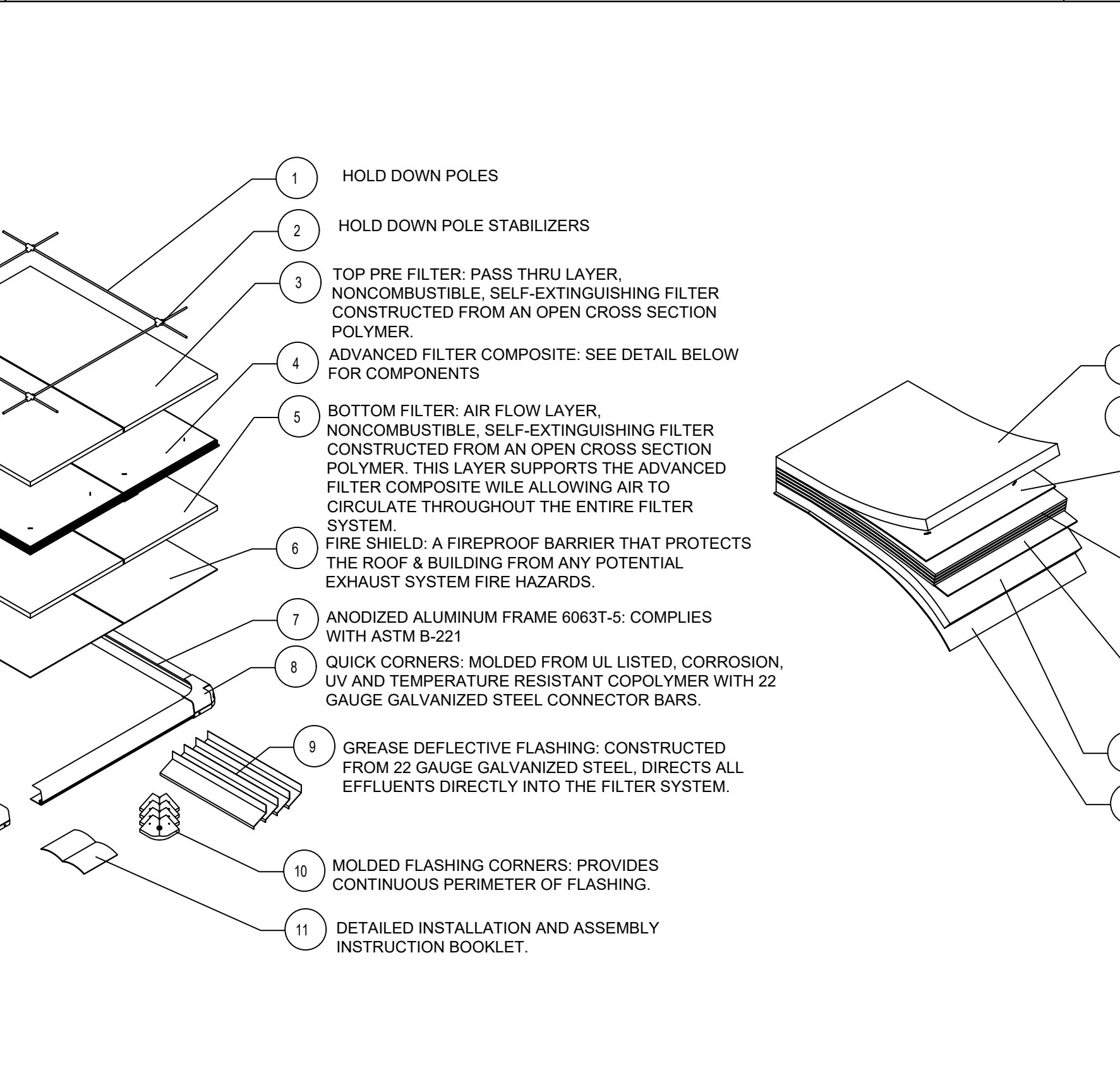
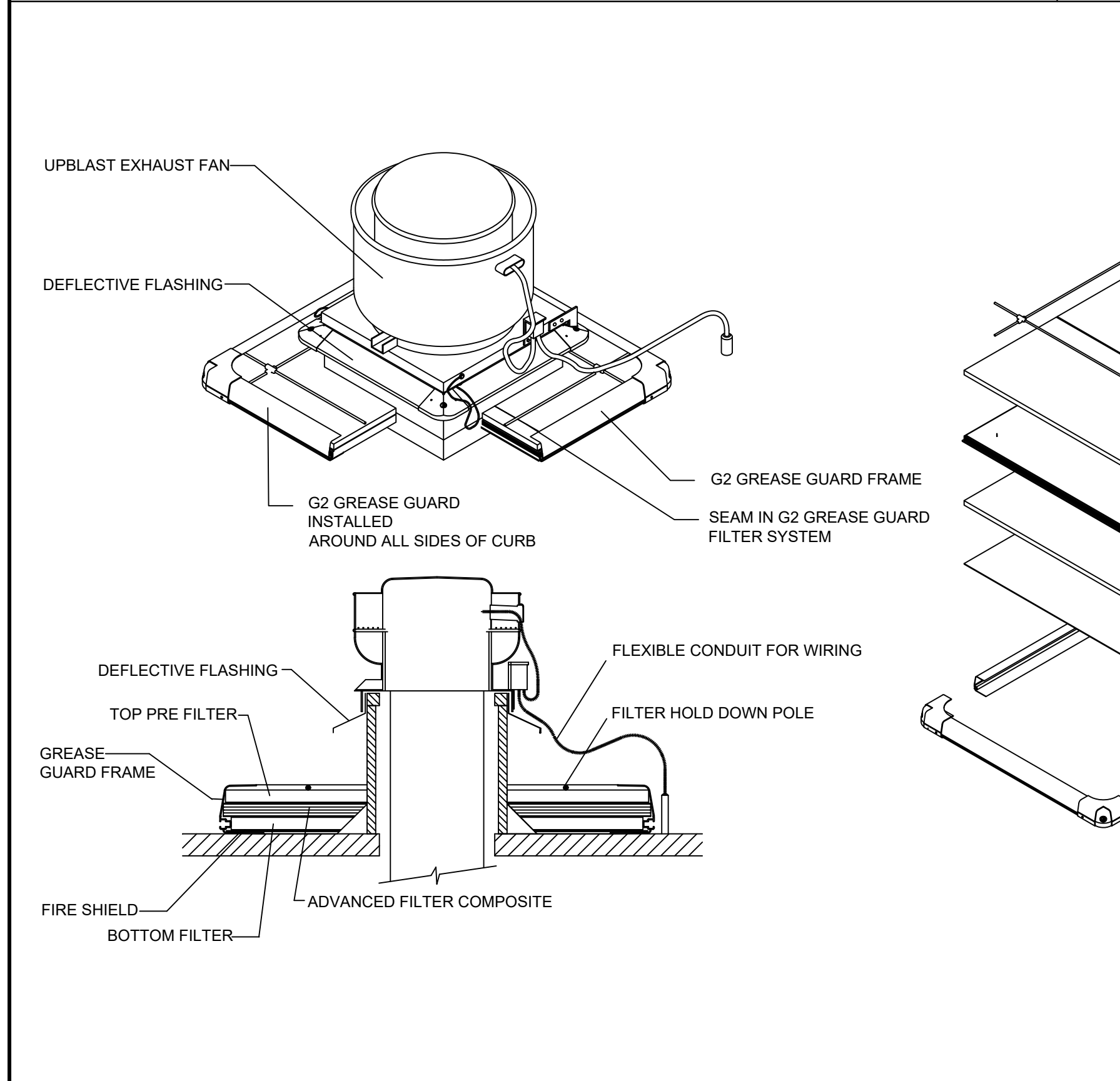
ROOFTOP UNIT MOUNTING DETAIL
SCALE: NONE 2



UPBLAST TYPE II EXHAUST FAN DETAIL
SCALE: NONE 3



KITCHEN UPBLAST GREASE EXHAUST FAN DETAIL
SCALE: NONE 4



CEILING MOUNTED SUPPLY AIR DIFFUSER DETAIL
SCALE: NONE 8

PIPING AND CONDUIT ROOF PENETRATION DETAIL
SCALE: NONE 9

VERTICAL REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE 10

HORIZONTAL REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE 11

UPBLAST FAN EXTENSION DETAIL
SCALE: NONE 12

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CHUY'S
1520 GREENVILLE AVE
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REVISIONS:	12/4/2024	HEALTH COMMENTS
1	AS NOTED	
2	1/2/2025	

JOB#: 240-231
SCALE: AS NOTED
DATE: 1/2/2025
DRAWN BY:
CHECKED BY:

MECHANICAL DETAILS
M3.0

FOR QUESTIONS, CALL THE Ferguson National Accounts Manager at 1-800-955-5222 or 404-434-4444. FAX: 404-434-4444. WWW.FERGUSON.COM

HOOD INFORMATION - JOB#2726032

HOOD NO.	TAG	MODEL	MANUFACTURER	LENGTH	MAX. CEILING CLAMP	TYPE	APPLIANCE	DESIGN (FPM)	TOTAL CFM	EXHAUST FLOW (CFM)	EXHAUST VELOCITY (FPM)	EXHAUST SIZE (IN)	EXHAUST TYPE	HOOD TO EXHAUST
1	K66	4824	CAPTIVE	6' 0"	400	NO	MESON	175	1050	0	430 SS	4"	30'	1050/180
2	K113	5424	CAPTIVE	9' 0"	400	1	HEAVY	200	1950	4"	30'	1050/180	4"	30'
3	K113	5424	CAPTIVE	9' 0"	400	1	HEAVY	240	2389	4"	30'	1050/180	4"	30'
4	K114	5424	CAPTIVE	9' 0"	400	1	HEAVY	175	1706	4"	30'	1050/180	4"	30'
5	K114	5424	CAPTIVE	9' 0"	400	1	HEAVY	175	1706	4"	30'	1050/180	4"	30'

HOOD OPTIONS

HOOD NO.	TAG	HOOD OPTION
1	K66	HOOD SENSOR INSTALL ON PANEL
2	K113	HOOD SENSOR INSTALL ON PANEL
3	K113	HOOD SENSOR INSTALL ON PANEL
4	K114	HOOD SENSOR INSTALL ON PANEL
5	K114	HOOD SENSOR INSTALL ON PANEL

PERFORATED SUPPLY PLenums

HOOD NO.	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	VELOCITY (FPM)	AREA (SQ FT)	SP	
2	K113	Charbroiler L	Front	12"	12"	6"	MIA	8"	36	480
3	K113	Charbroiler R	Front	12"	12"	6"	MIA	8"	36	480
4	K114	LEFT	Front	12"	12"	6"	MIA	8"	36	480
5	K114	RIGHT	Front	12"	12"	6"	MIA	8"	36	480

DIFFUSER SCHEDULE

TAG	MODEL	CEILING SPACE	RISER	CFM	DUCT VELOCITY	FACE DISCHARGE VELOCITY (FPM)	150 SP	150 SP	150 SP	LINKED HOOD
2	PSP-12	24" X 24"	10"	250	450	74	7.08	8.00	27	54X24X2-PSP-F

PATENT NUMBERS

AS-SPER QUOTES STATED - US PATENT 7360300 B2
 AC-SPER VAIL (CANADA) - CA PATENT 2500393
 AC-SPER ISLAND (CANADA) - CA PATENT 2500393
 EXHAUST HOODS (US) - US PATENT 7,809,200
 EXHAUST HOODS (CANADA) - CA PATENT 2504935 C

REVISIONS

NO.	DATE	DESCRIPTION
1		

CAPTIVE
 Ferguson National Accounts
 Dallas, TX, 75206
 DATE: 12/20/2024
 DWG.#: 7226039
 DRAWN BY: [Signature]
 SCALE: 1/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 3

REVISIONS

NO.	DATE	DESCRIPTION
1		

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #1 (K113 Charbroiler L)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #3 (K113 Charbroiler R)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #4 (K114 LEFT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #5 (K114 RIGHT)

PLAN VIEW - HOOD #1 (K66) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #2 (K113 Charbroiler L) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #3 (K113 Charbroiler R) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #4 (K114 LEFT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #5 (K114 RIGHT) 9' 0.00" LONG 54X24ND-2-PSP-F

REVISIONS

NO.	DATE	DESCRIPTION
1		

CAPTIVE
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 SCALE: 1/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 2

REVISIONS

NO.	DATE	DESCRIPTION
1		

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #1 (K66)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #2 (K113 LEFT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #3 (K113 RIGHT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #4 (K114 LEFT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #5 (K114 RIGHT)

PLAN VIEW - HOOD #1 (K66) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #2 (K113 LEFT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #3 (K113 RIGHT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #4 (K114 LEFT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #5 (K114 RIGHT) 9' 0.00" LONG 54X24ND-2-PSP-F

REVISIONS

NO.	DATE	DESCRIPTION
1		

CAPTIVE
 Ferguson National Accounts
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 DWG.#: 7226039
 DRAWN BY: [Signature]
 SCALE: 1/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 3

REVISIONS

NO.	DATE	DESCRIPTION
1		

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #1 (K66)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #2 (K113 LEFT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #3 (K113 RIGHT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #4 (K114 LEFT)

SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #5 (K114 RIGHT)

PLAN VIEW - HOOD #1 (K66) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #2 (K113 LEFT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #3 (K113 RIGHT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #4 (K114 LEFT) 9' 0.00" LONG 54X24ND-2-PSP-F

PLAN VIEW - HOOD #5 (K114 RIGHT) 9' 0.00" LONG 54X24ND-2-PSP-F

REVISIONS

NO.	DATE	DESCRIPTION
1		

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12/20/2025

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CHUY'S

1520 GREENVILLE AVE

DALLAS, TX 75206

REVISIONS:

NO.	DATE	HEALTH COMMENTS
1	12/17/2024	
2	12/17/2024	
3	12/17/2024	
4	12/17/2024	
5	12/17/2024	
6	12/17/2024	
7	12/17/2024	
8	12/17/2024	
9	12/17/2024	
10	12/17/2024	

REVISIONS

NO.	DATE	DESCRIPTION
1		

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 DATE: 12/20/2024
 DWG.#: 7226039
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 SHEET NO. 4

MECHANICAL HOOD DETAILS

M4.0

REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

EXHAUST FAN INFORMATION - JOB#726039

FAN UNIT NO.	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR VOLT	HP	PHASE	VOLTS FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SCREENS	
1	K66 E7-4	1	BUSHFA	CAPTIVEAIR	1050	1.000	1256	208	0.750	3	208	26	332 FPM	96	1.8
2	K14 LEFT	1	BUSHFA	CAPTIVEAIR	1488	0.950	1343	208	0.750	1	115	6.9	471 FPM	88	1.2
3	K14 RIGHT	1	BUSHFA	CAPTIVEAIR	1706	1.000	1386	208	0.750	1	115	6.9	540 FPM	90	1.2

FAN OPTIONS

FAN UNIT NO.	TAG	QTY	DESCRIPTION
1	K66 E7-4	1	GREASE BOX
1	K66 E7-4	1	FAN BASE CERAMIC SEAL - BUSHFA/FA - INSTALLED AT PLANT - FOR GREASE DUCTS
1	K66 E7-4	1	2 YEAR PARTS WARRANTY
1	K66 E7-4	1	1/2" 304 SS SCREEN
2	K14 LEFT	1	1/2" 304 SS DAMPER
2	K14 LEFT	1	FOR WIRING PACKAGE - MANUAL ON / OFF SPEED CONTROL - HTG - VFD/DC MOTOR, DCV ROTATION
3	K14 RIGHT	1	GREASE BOX
3	K14 RIGHT	1	FAN BASE CERAMIC SEAL - BUSHFA/FA - INSTALLED AT PLANT - FOR GREASE DUCTS
3	K14 RIGHT	1	FOR WIRING PACKAGE - FAN SIGNAL FROM EXISTING PREWIRE (FIELD MOTOR, DCV ROTATION)
3	K14 RIGHT	1	2 YEAR PARTS WARRANTY
4	K14 RIGHT	1	GREASE BOX
4	K14 RIGHT	1	FAN BASE CERAMIC SEAL - BUSHFA/FA - INSTALLED AT PLANT - FOR GREASE DUCTS
4	K14 RIGHT	1	FOR WIRING PACKAGE - FAN SIGNAL FROM EXISTING PREWIRE (FIELD MOTOR, DCV ROTATION)
4	K14 RIGHT	1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST DAMPER	SUPPLY DAMPER	WALL MOUNTED DAMPER	WALL MOUNTED DAMPER
1	K66 E7-4	YES	NO	NO	NO
2	K14 LEFT	YES	NO	NO	NO
3	K14 RIGHT	YES	NO	NO	NO
4	K14 RIGHT	YES	NO	NO	NO

CURB ASSEMBLIES

FAN UNIT NO.	TAG	WEIGHT	ITEM	SIZE
1	K66 E7-4	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
2	K14 LEFT	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
3	K14 RIGHT	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
4	K14 RIGHT	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
5	K14 RIGHT	07 LBS	CLUB	18.000" X 7.000" X 20.000" INSULATED
6	K14 RIGHT	07 LBS	CLUB	18.000" X 7.000" X 20.000" INSULATED

DATE: 12/20/2024
DWG.#: 726039
DRAWN BY: [Signature]
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 5

REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

EXHAUST FAN INFORMATION - JOB#726039

FAN UNIT NO.	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR VOLT	HP	PHASE	VOLTS FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SCREENS	
1	K66 E7-4	1	BUSHFA	CAPTIVEAIR	1050	1.000	1256	208	0.750	3	208	26	332 FPM	96	1.8
2	K14 LEFT	1	BUSHFA	CAPTIVEAIR	1488	0.950	1343	208	0.750	1	115	6.9	471 FPM	88	1.2
3	K14 RIGHT	1	BUSHFA	CAPTIVEAIR	1706	1.000	1386	208	0.750	1	115	6.9	540 FPM	90	1.2

FAN OPTIONS

FAN UNIT NO.	TAG	QTY	DESCRIPTION
1	K66 E7-4	1	GREASE BOX
1	K66 E7-4	1	FAN BASE CERAMIC SEAL - BUSHFA/FA - INSTALLED AT PLANT - FOR GREASE DUCTS
1	K66 E7-4	1	2 YEAR PARTS WARRANTY
1	K66 E7-4	1	1/2" 304 SS SCREEN
2	K14 LEFT	1	1/2" 304 SS DAMPER
2	K14 LEFT	1	FOR WIRING PACKAGE - MANUAL ON / OFF SPEED CONTROL - HTG - VFD/DC MOTOR, DCV ROTATION
3	K14 RIGHT	1	GREASE BOX
3	K14 RIGHT	1	FAN BASE CERAMIC SEAL - BUSHFA/FA - INSTALLED AT PLANT - FOR GREASE DUCTS
3	K14 RIGHT	1	FOR WIRING PACKAGE - FAN SIGNAL FROM EXISTING PREWIRE (FIELD MOTOR, DCV ROTATION)
3	K14 RIGHT	1	2 YEAR PARTS WARRANTY
4	K14 RIGHT	1	GREASE BOX
4	K14 RIGHT	1	FAN BASE CERAMIC SEAL - BUSHFA/FA - INSTALLED AT PLANT - FOR GREASE DUCTS
4	K14 RIGHT	1	FOR WIRING PACKAGE - FAN SIGNAL FROM EXISTING PREWIRE (FIELD MOTOR, DCV ROTATION)
4	K14 RIGHT	1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST DAMPER	SUPPLY DAMPER	WALL MOUNTED DAMPER	WALL MOUNTED DAMPER
1	K66 E7-4	YES	NO	NO	NO
2	K14 LEFT	YES	NO	NO	NO
3	K14 RIGHT	YES	NO	NO	NO
4	K14 RIGHT	YES	NO	NO	NO

CURB ASSEMBLIES

FAN UNIT NO.	TAG	WEIGHT	ITEM	SIZE
1	K66 E7-4	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
2	K14 LEFT	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
3	K14 RIGHT	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
4	K14 RIGHT	36 LBS	CLUB	23.000" X 23.000" X 20.000" VENTED HINGED
5	K14 RIGHT	07 LBS	CLUB	18.000" X 7.000" X 20.000" INSULATED
6	K14 RIGHT	07 LBS	CLUB	18.000" X 7.000" X 20.000" INSULATED

DATE: 12/20/2024
DWG.#: 726039
DRAWN BY: [Signature]
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 6

REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

ELECTRICAL PACKAGE - JOB#726039

NO.	TAG	PACKAGE #	LOCATION	SWITCHES	QUANTITY	OPEN	FANS CONTROLLED
1	SC-00010A	UTILITY CABINET RIGHT	UTILITY CONNECT	HEED # 3	1	1	SWAY CONTROL, TEMPERATURE CONTROL, RELAY (ON WITH VFD)
2	SC-00010A	UTILITY CABINET LEFT	UTILITY CONNECT	HEED # 4	1	1	SWAY CONTROL, TEMPERATURE CONTROL, RELAY (ON WITH VFD)

TANK PROTECTION ELECTRICAL DETAIL

DATE: 12/20/2024
DWG.#: 726039
DRAWN BY: [Signature]
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 7

REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

ELECTRICAL PACKAGE - JOB#726039

NO.	TAG	PACKAGE #	LOCATION	SWITCHES	QUANTITY	OPEN	FANS CONTROLLED
1	SC-00010A	UTILITY CABINET RIGHT	UTILITY CONNECT	HEED # 3	1	1	SWAY CONTROL, TEMPERATURE CONTROL, RELAY (ON WITH VFD)
2	SC-00010A	UTILITY CABINET LEFT	UTILITY CONNECT	HEED # 4	1	1	SWAY CONTROL, TEMPERATURE CONTROL, RELAY (ON WITH VFD)

TANK PROTECTION ELECTRICAL DETAIL

DATE: 12/20/2024
DWG.#: 726039
DRAWN BY: [Signature]
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 8



THE DIMENSION GROUP

ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING • PLANNING

10755 SANDHILL ROAD | DALLAS, TEXAS 75238 | P: 214-341-9061 | ddimension.com



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CHUY'S

1520 GREENVILLE AVE
DALLAS, TX 75206

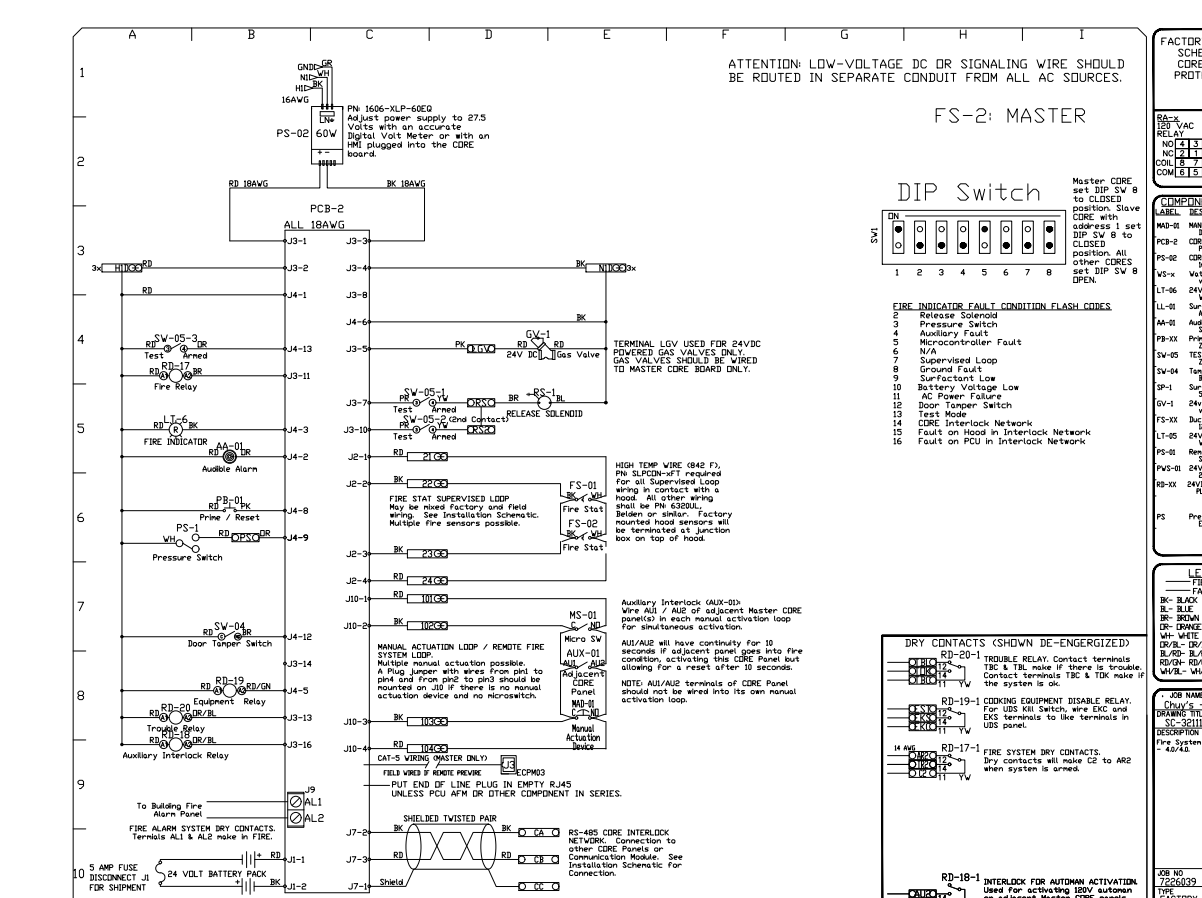
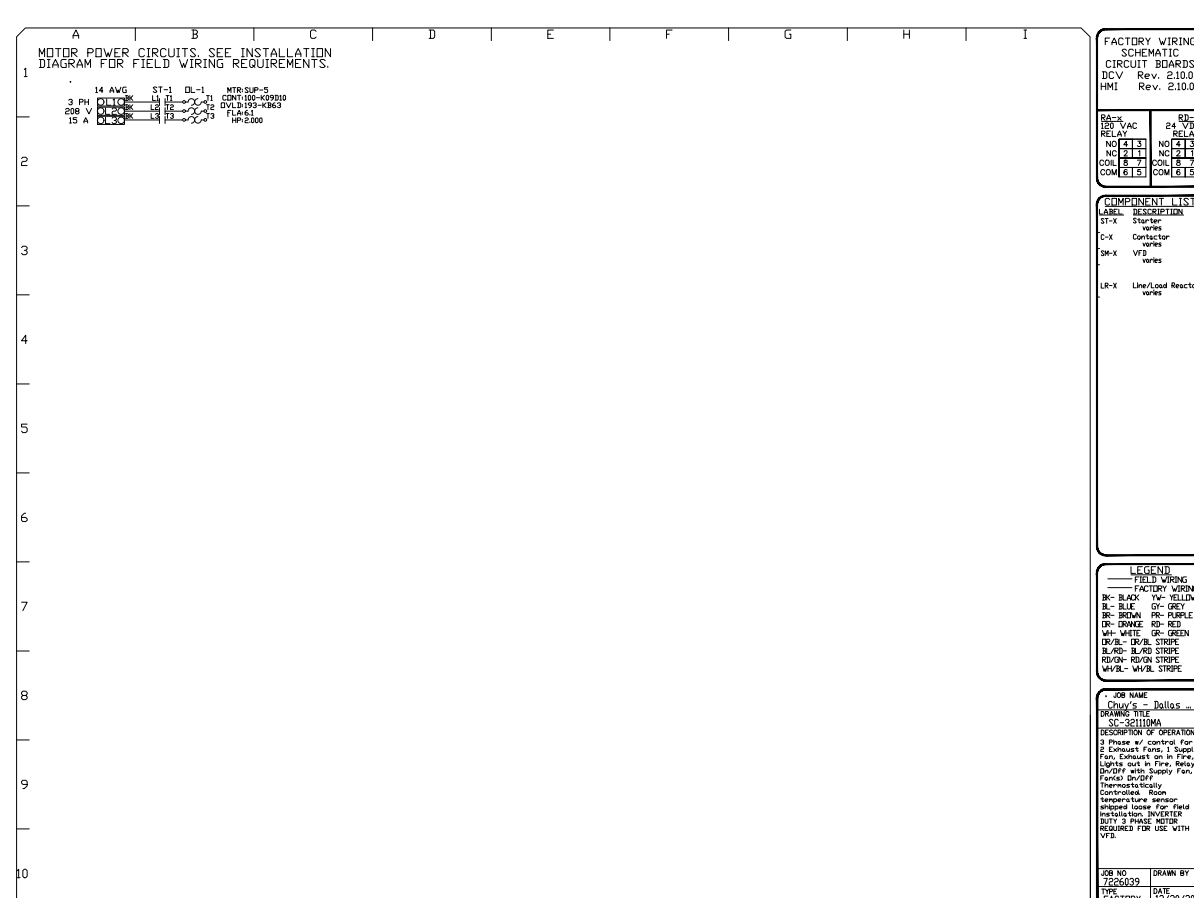
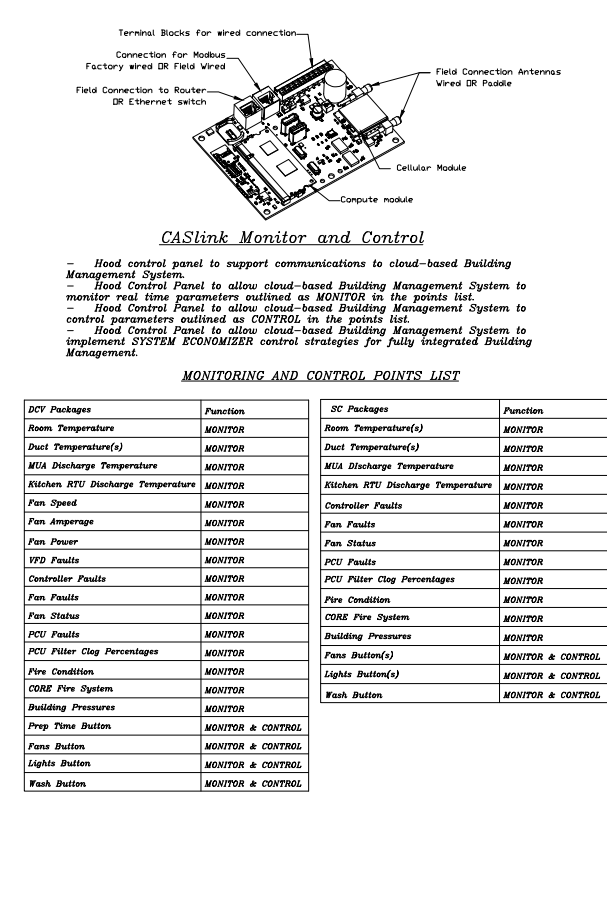
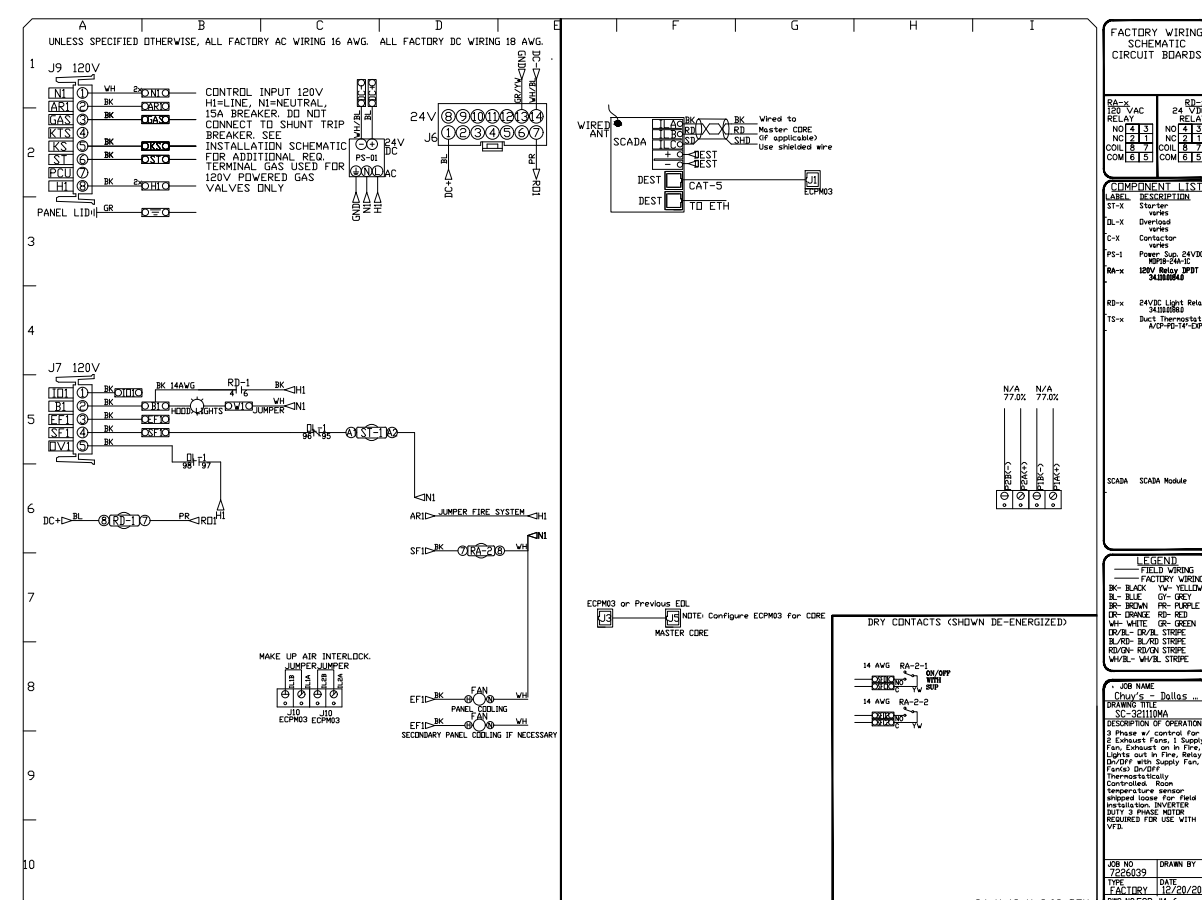
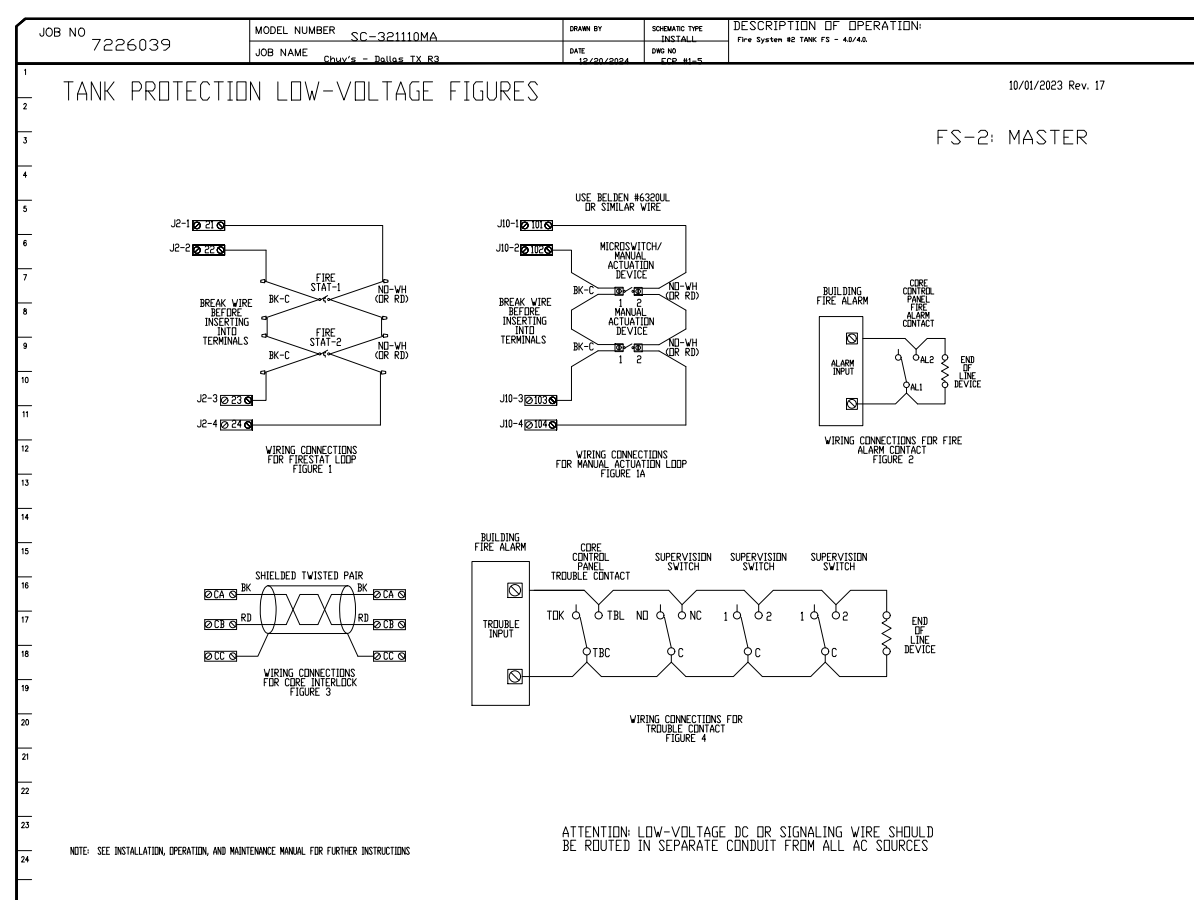
REVISIONS:

NO.	DATE	HEALTH COMMENTS
1	12/17/2024	REVISIONS

JOB#: 240-231
SCALE: AS NOTED
DATE: 11/20/2025
DRAWN BY:
CHECKED BY:

MECHANICAL HOOD DETAILS

M4.1

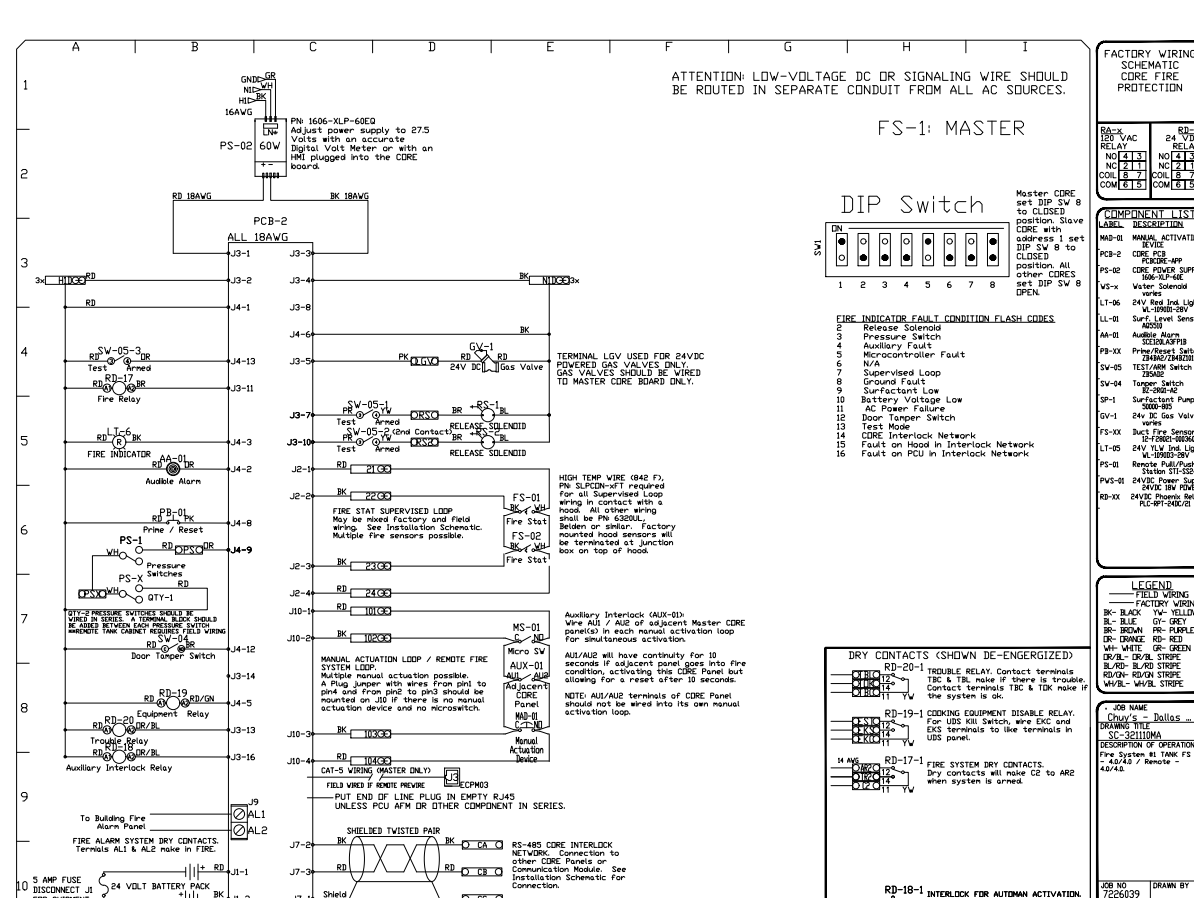


REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

CAPTIVEAIRE
 A Division of
 CAPSULE INDUSTRIES, INC.
 1520 GREENVILLE AVENUE, DALLAS, TX 75206

DATE: 12/20/2024
 DWG.#: 7226039
 DRAWN BY: [Signature]
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 9



REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

CAPTIVEAIRE
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 1520 GREENVILLE AVENUE, DALLAS, TX 75206

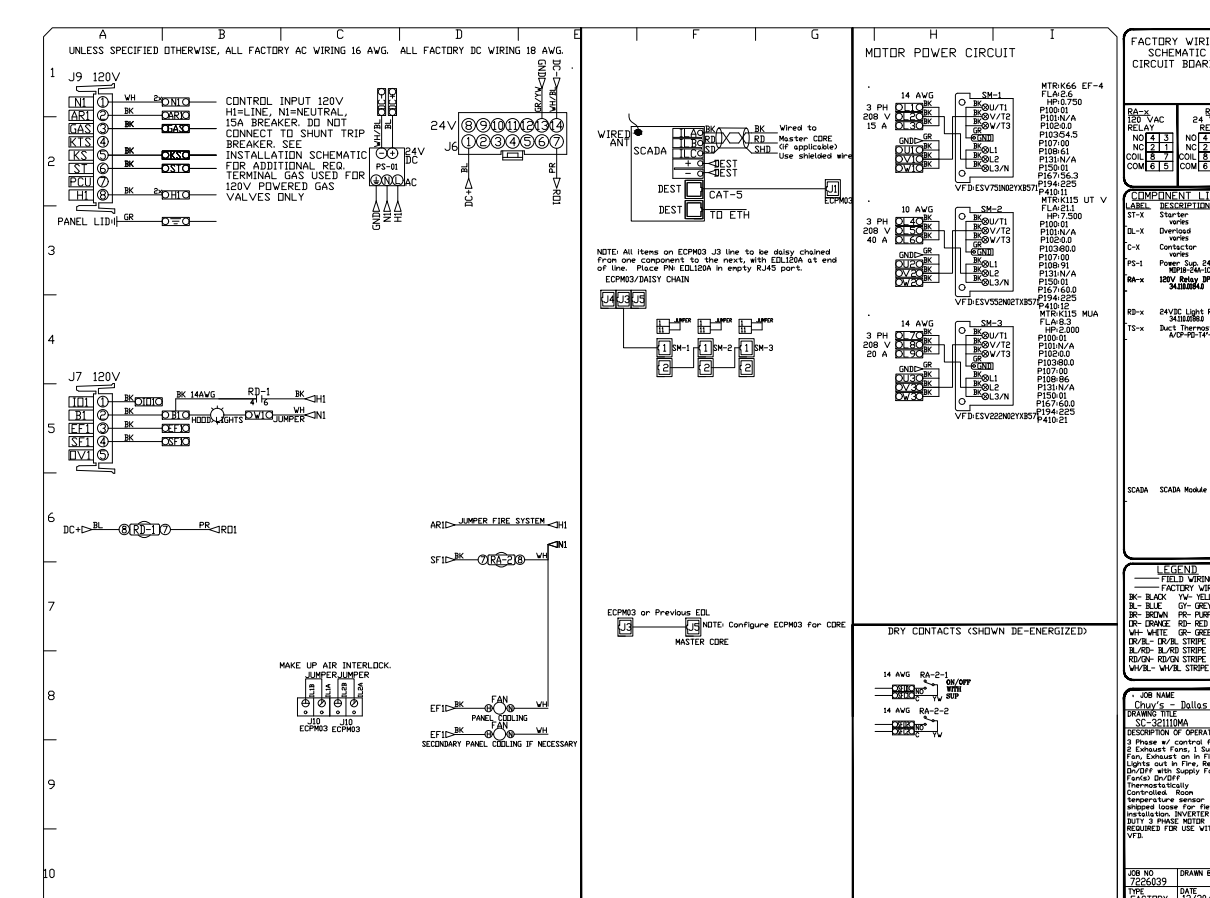
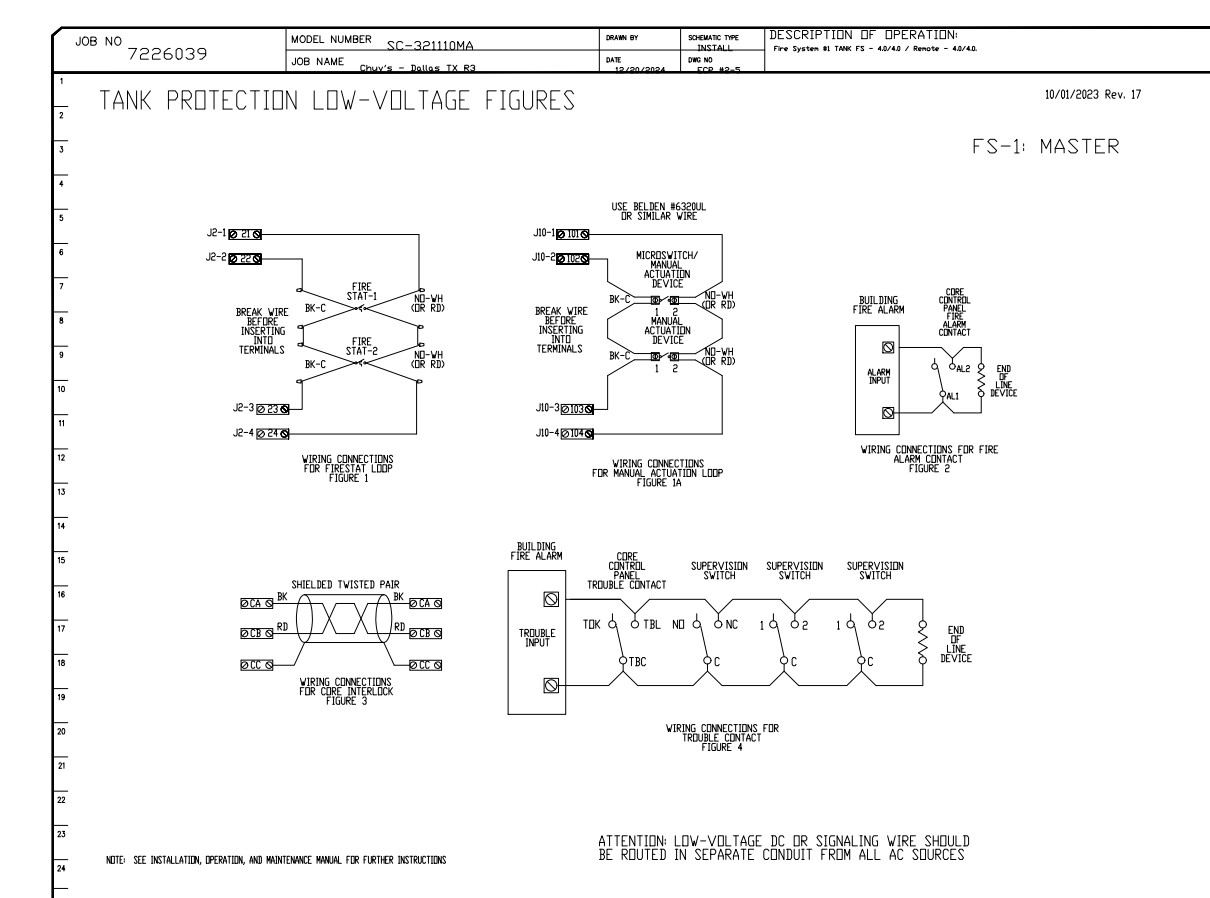
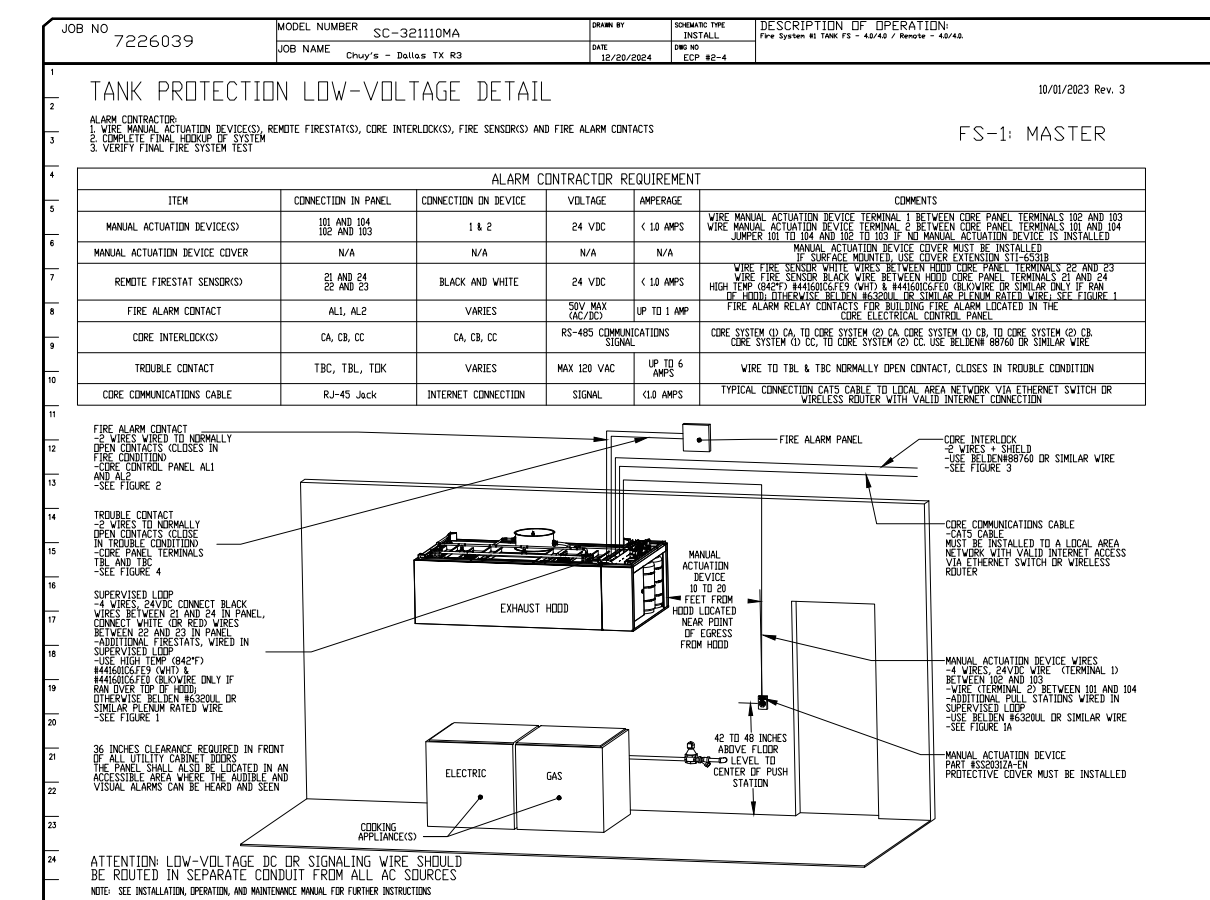
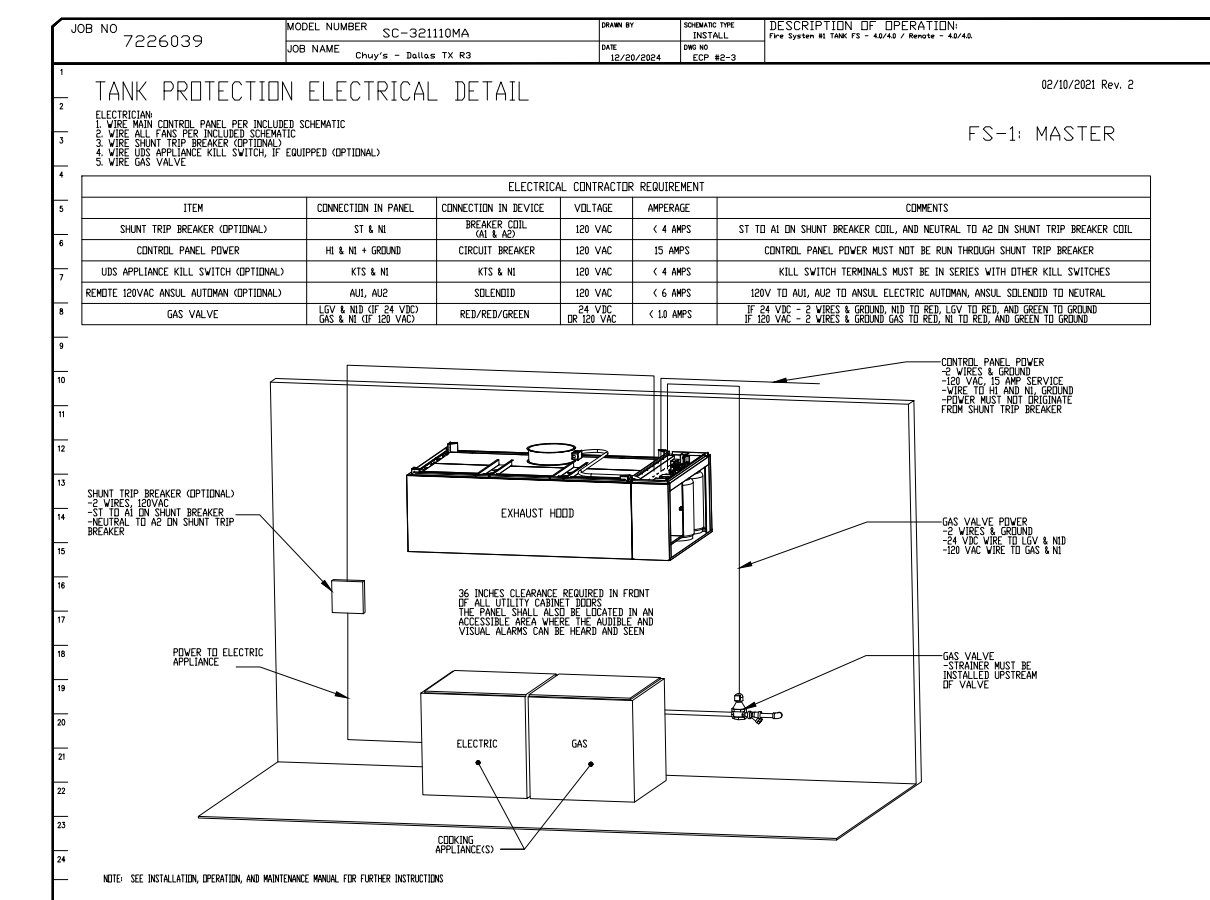
DATE: 12/20/2024
 DWG.#: 7226039
 DRAWN BY: [Signature]
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 11

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



REVISIONS

NO.	DATE	DESCRIPTION
1	12/20/2024	ISSUED FOR PERMIT

CAPTIVEAIRE
 A Division of
 CAPSULE INDUSTRIES, INC.
 1520 GREENVILLE AVENUE, DALLAS, TX 75206

DATE: 12/20/2024
 DWG.#: 7226039
 DRAWN BY: [Signature]
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 10

DUCTWORK #1 PARTS - JOB#7226039 DOUBLE WALL V86

TAG	PART #	QTY	UNIT	WEIGHT	VELOCITY	DESCRIPTION	
H-01	DV14H48RISER-DR-S	1000		-5566	645	088	DOUBLE WALL RISER COVER - USED ON 10" INNER DUCT 4' LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMP FOR INNER & OUTER CONNECTIONS.
P1	DV14D7AD-ID-DR-S	1000		-8206	1045	1925.14	DOUBLE WALL DUCT - 10" INNER DUCT 8' 2" DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P2	DV14D7AD-ID-DR-S	1000		-8205	7854	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 10' - MAX LENGTH = 480' / ADJUSTMENT - 2" SLIP / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3	DV14D7AD-ID-DR-S	1000		-10261	10335	1925.14	DOUBLE WALL DUCT - 10" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P4	DV14D7AD-ID-DR-S	1000		-8205	7854	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 10' - MAX LENGTH = 480' / ADJUSTMENT - 2" SLIP / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P5	DV14D7AD-ID-DR-S	1000	1	-10152	9771	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P6	DV14D7AD-ID-DR-S	1000		-8206	1025	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT 8' 2" DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P7	DV14D7AD-ID-DR-S	1000		-8205	1155	1925.14	DOUBLE WALL DUCT - 10" INNER DUCT 10' LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P8	DV14D7AD-ID-DR-S	1000		-10245	7854	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P9	DV14H48RISER	500	1				DUCT - HORIZONTAL SADDLE SUPPORT KIT - USES WITH 14" OD - INCLUDES UN-STRUT CUT TO LENGTH, SHIMMERS & SHIMMING BAG.
P10	DV14D7AD-ID-DR-S	1000	1	-10158	9771	1925.14	DOUBLE WALL DUCT - 10" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P11	DV14D7AD-ID-DR-S	1000		-10154			DOUBLE WALL DUCT - 10" INNER ACCESS DUCT 8' 14" ACCESS HOOD COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P12	DV14D7AD-ID-DR-S	1000		-8206	1025	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT RISER 8' 2" DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P13	DV14D7AD-ID-DR-S	1000		-8202	7854	1925.14	DOUBLE WALL ADJUSTABLE DUCT - 10" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 10' - MAX LENGTH = 480' / ADJUSTMENT - 2" SLIP / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P14	DV14D7AD-ID-DR-S	1000		-8205	4613	1925.14	DOUBLE WALL DUCT - 10" INNER DUCT 405' LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P15	DV14D7AD-ID-DR-S	1000		750			DUCT TO SLEEVES TRANSITION 3/4" DIA. SLEEVES TURN 15-15° CURB TO 10" DUCT. IS GA ALUMINIZED STEEL. FOR USE WITH EXHAUST FANS.
P16	DV14D7AD-ID-DR-S	1000		-11021	1000		SYSTEM AT P15
P17	DV14D7AD-ID-DR-S	1000		-10154			DOUBLE WALL DUCT - 10" INNER ACCESS DUCT 8' 14" ACCESS HOOD COVER WITH CLAMPS - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER SHELL.
P18	DV14D7AD-ID-DR-S	1000		645			DOUBLE WALL RISER COVER - USED ON 10" INNER DUCT 4' LONG - 2 LAYERS REDUCED CLEARANCE - 14" STAINLESS STEEL OUTER RISER SHELL ASSEMBLY. INCLUDES INSULATION & SINGLE V CLAMP FOR INNER & OUTER CONNECTIONS.
P19	DV14D7AD-ID-DR-S	1000		100			DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
P20	DV14D7AD-ID-DR-S	1000		567			DUCT - 10" DUCT - 14" DOUBLE "V" CLAMP - 10" INSULATION & SINGLE "V" CLAMP - REDUCED CLEARANCE.
TOTAL WEIGHT							3300.27

DOUBLE WALL FACTORY BUILT INCLUDING:

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/8" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL			VERTICAL		
DUCT DIAMETER	SUPPORT SPACING (FT)		TYPE	WALL SUPPORT (FT)	FLOOR SUPPORT (FT)
6"	7'				
8"	7'				
10"	7'				
12"	7'				
14"	7'				
16"	7'				
18"	7'				
20"	7'				
24"	7'				
28"	7'				
32"	7'				
36"	7'				
40"	7'				
48"	7'				
56"	7'				
64"	7'				
72"	7'				
84"	7'				
96"	7'				
108"	7'				
120"	7'				
144"	7'				
168"	7'				
192"	7'				
216"	7'				
240"	7'				
288"	7'				
336"	7'				
384"	7'				
432"	7'				
480"	7'				
528"	7'				
576"	7'				
624"	7'				
672"	7'				
720"	7'				
768"	7'				
816"	7'				
864"	7'				
912"	7'				
960"	7'				
1008"	7'				
1056"	7'				
1104"	7'				
1152"	7'				
1200"	7'				
1248"	7'				
1296"	7'				
1344"	7'				
1392"	7'				
1440"	7'				
1488"	7'				
1536"	7'				
1584"	7'				
1632"	7'				
1680"	7'				
1728"	7'				
1776"	7'				
1824"	7'				
1872"	7'				
1920"	7'				
1968"	7'				
2016"	7'				
2064"	7'				
2112"	7'				
2160"	7'				
2208"	7'				
2256"	7'				
2304"	7'				
2352"	7'				
2400"	7'				
2448"	7'				
2496"	7'				
2544"	7'				
2592"	7'				
2640"	7'				
2688"	7'				
2736"	7'				
2784"	7'				
2832"	7'				
2880"	7'				
2928"	7'				
2976"	7'				
3024"	7'				
3072"	7'				
3120"	7'				
3168"	7'				
3216"	7'				
3264"	7'				
3312"	7'				
3360"	7'				
3408"	7'				
3456"	7'				
3504"	7'				
3552"	7'				
3600"	7'				
3648"	7'				
3696"	7'				
3744"	7'				
3792"	7'				
3840"	7'				
3888"	7'				
3936"	7'				
3984"	7'				
4032"	7'				
4080"	7'				
4128"	7'				
4176"	7'				
4224"	7'				
4272"	7'				
4320"	7'				
4368"	7'				
4416"	7'				
4464"	7'				
4512"	7'				
4560"	7'				
4608"	7'				
4656"	7'				
4704"	7'				
4752"	7'				
4800"	7'				
4848"	7'				
4896"	7'				
4944"	7'				
4992"	7'				
5040"	7'				
5088"	7'				
5136"	7'				
5184"	7'				
5232"	7'				
5280"	7'				
5328"	7'				
5376"	7'				
5424"	7'				
5472"	7'				
5520"	7'				
5568"	7'				
5616"	7'				
5664"	7'				
5712"	7'				
5760"	7'				
5808"	7'				
5856"	7'				
5904"	7'				
5952"	7'				
6000"	7'				
6048"	7'				
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6144"	7'				
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6432"	7'				
6480"	7'				
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6816"	7'				
6864"	7'				
6912"	7'				

