

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

**GENERAL INSTRUCTION TO BIDDERS**

EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED. PLEASE REFER TO THE TRANE NATIONAL ACCOUNT PROGRAM SCHEDULE BLOCK FOR DETAILS ON PRICING AND ORDERING OR CONTACT: -WINGSTOP NATIONAL ACCOUNT TEAM  
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EMAIL: WINGSTOP@TRANE.COM  
ACCOUNT MANAGER: AUSTIN LUPTON

**MECHANICAL KEYED NOTES**

- 1) HVAC CONTRACTOR SHALL SUPPLY AND INSTALL 7.5 TON HEAT PUMP UNIT HP-1, REFER TO EQUIPMENT SCHEDULE ON SHEET M2. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- 2) HVAC CONTRACTOR SHALL SUPPLY AND INSTALL 4 TON HEAT PUMP UNIT HP-2, REFER TO EQUIPMENT SCHEDULE ON SHEET M2. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCT WORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- 3) 16"Ø EXHAUST RISER UP FROM HOOD COLLAR. EXTEND DUCT UP TO FAN ON ROOF. REFER TO DETAILS ON SHEET M2 FOR EXHAUST DUCT FIRE BARRIER DUCT WRAP. EXHAUST DUCT AND FIRE BARRIER DUCT WRAP PROVIDED BY OWNER INSTALLED BY MECHANICAL CONTRACTOR. IF WELDED EXHAUST DUCT IS USED, MECHANICAL CONTRACTOR TO PROVIDE EXHAUST DUCT AND FIRE BARRIER DUCT WRAP.
- 4) 16"Ø EXHAUST DUCT UP THROUGH ROOF TO EF-1 ON ROOF. ROOF MOUNTED KITCHEN EXHAUST FAN EF-1 AND CURB TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND FAN/HOOD DETAILS FOR ADDITIONAL INFORMATION. ROOF CURB TO BE 20" REFER TO HOOD DRAWINGS.
- 5) 28"x12" SUPPLY DUCT RISER UP FROM 28"x12" DUCT COLLAR (TYPICAL OF 3). EXTEND DUCT UP TO MAIN SUPPLY DUCT.
- 6) 13"x11" UP THROUGH ROOF TO MUA-1 ON ROOF. ROOF MOUNTED KITCHEN MAKE-UP AIR UNIT MUA-1 AND CURB TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND FAN/HOOD DETAILS FOR ADDITIONAL INFORMATION. PROVIDE EXTENSION AS REQUIRED FOR 10 FEET MINIMUM FROM EXHAUST VENT.
- 7) EXTEND DUCTS FROM EACH CEILING EXHAUST FAN TO 10"Ø AT EXHAUST DUCT THROUGH ROOF. TERMINATE ROOF DUCT NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE. PROVIDE WEATHERPROOF CAP AND BIRDSCREEN.
- 8) PROVIDE AN EQUIPMENT COMPATIBLE PROGRAMMABLE THERMOSTAT WITH NIGHT SETBACK FEATURE AND LOCKING COVER. MOUNT AT 48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER ON SITE. (TYPICAL OF 2).
- 9) EXHAUST HOOD TO BE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. SEE DRAWING SHEET H1 AND MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. VOLUME OF EXHAUST PER U.L. LISTING FOR HOOD. SEE ARCHITECTURAL DRAWINGS FOR HOOD MOUNTING LOCATION AND DIMENSIONS.
- 10) COORDINATE NEW HP-1,2 AND MAU-1 LOCATION WITH EXISTING ROOF JOIST, COORDINATE WITH STRUCTURAL ENGINEER.
- 11) PROVIDE TITUS 50F 26x18 TRANSFER AIR GRILLE IN SOFFIT ABOVE COOLER.
- 12) FURNISH AND INSTALL GALVANIZED STEEL DUCTWORK, SIZES AS NOTED ON DRAWINGS. DUCTWORK SIZES ARE SHEET METAL SIZES. ALL NEW DUCTWORK SHALL HAVE 1" INTERNAL LINER.
- 13) FACTORY MOUNTED 120V SMOKE DETECTOR INSIDE HVAC UNIT TO MEET LOCAL CODE REQUIREMENTS. PROVIDE INTERLOCK WIRING TO DE-ENERGIZE ALL HP'S UPON DETECTION OF SMOKE. PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCATION AHL. MECHANICAL CONTRACTOR TO PROVIDE ALL REQUIRED INTERLOCK WIRING AND COORDINATE ALL FINAL CONNECTIONS.
- 14) WALK-IN COOLER WITH R-404A REFRIGERANT AT 64 OZ. CAPACITY. VOLUME OF COOLER IS 695 CU. FEET, FLAME SPREAD IS 15, AND COMPRESSOR IS 1.5 H.P.
- 15) 1" EXTERNALLY INSULATED RETURN AIR DUCT. COORDINATE ROUTING WITH EXISTING STRUCTURE, PIPING, ETC.
- 16) CONTRACTOR SHALL ENSURE THAT EXHAUST FANS ARE AT LEAST 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES FOR MAU-1, HP-1, HP-2, AND ADJOINING TENANT'S OUT SIDE AIR INTAKES.
- 17) PRE-PIPED FIRE SUPPRESSION SYSTEM SUPPLIED WITH HOOD AND PROVIDED BY OWNER. SEE SHEET H1 FOR DETAILS. MECHANICAL CONTRACTOR SHALL INSTALL OWNER PROVIDED FIRE SUPPRESSION GAS VALVE AND MAKE ALL ELECTRICAL CONNECTIONS. FIRE SYSTEM HOOKUP IS PROVIDED BY CAPTIVE AIRE.
- 18) VOLUME DAMPER AT DUCT CONNECTION TO MAIN SUPPLY AIR DUCT, TYPICAL.
- 19) SUPPLY AIR DIFFUSER CFM RATES SHALL BE ADJUSTED AS REQUIRED FOR PROPER AIR FLOW AROUND THE HOOD.
- 20) 8"Ø SUPPLY AIR DUCT DOWN TO HOOD SUPPLY DIFFUSER. TRANSITION AS REQUIRED. BALANCE TO 130 CFM.
- 21) FIRE SUPPRESSION SYSTEM PULL STATION, VERIFY EXACT LOCATION IN FIELD WITH LOCAL CODE OFFICIAL PRIOR TO INSTALLATION.
- 22) PROVIDE COMPATIBLE REMOTE TEMPERATURE SENSORS. CONNECT TO CORRESPONDING THERMOSTATS. MOUNT 48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER ON SITE.

**HVAC SYMBOLS**

☒ SUPPLY AIR DUCT OR GRILLE	Ⓜ MOTORIZED DAMPER
CHS CHILLED WATER SUPPLY	Ⓢ SMOKE DETECTION DEVICE
CHR CHILLED WATER RETURN	Ⓣ THERMOSTAT
HS HOT WATER SUPPLY	ⓈⓉ DUCT SMOKE DETECTOR
HR HOT WATER RETURN	R.A.G. RETURN AIR GRILLE
R.D. REFRIGERANT DISCHARGE LINE	DIFF. DIFFUSER
R.S. REFRIGERANT SUCTION LINE	M.D. MANUAL DAMPER
O.A. OUTDOOR AIR	F.D. FIRE DAMPER
R.A. RETURN AIR	F.C. FLEXIBLE CONNECTION
S.A. SUPPLY AIR	S.E. SMOKE EXHAUST
☒ RETURN AIR DUCT OR GRILLE	
—D— CONDENSATE DRAIN LINE	
TE TOILET EXHAUST	ALL SYMBOLS MAY NOT BE USED

**MECHANICAL GENERAL NOTES**

1. DUCTWORK SHALL BE RUN ABOVE CEILING AS HIGH AS POSSIBLE IN GENERAL LOCATIONS SHOWN, BUT SHALL CONFORM TO ALL STRUCTURAL AND FINISH CONDITIONS OF BUILDINGS. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.
2. LOCATE EQUIPMENT AND FIXTURES APPROXIMATELY AS SHOWN CONFORMING TO ALL ARCHITECTURAL AND STRUCTURAL ITEMS. PROVIDE ALL SUPPORTS, HANGERS AND OPENINGS AS REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ALL TRADES FOR CLEARANCES, AND EXACT LOCATIONS OF EQUIPMENT. ALL EQUIPMENT AND FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND IN FULL ACCORDANCE WITH ALL APPLICABLE CODES.
3. CEILING MOUNTED AIR DEVICES SHALL BE APPROXIMATELY AS SHOWN. FOR EXACT LOCATION AND FRAME MOUNTING TYPES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. ALL CEILING DIFFUSERS TO BE 4-WAY UNLESS NOTED OTHERWISE BY AIRFLOW ARROWS, ON FLOOR PLAN. EXTEND FLEX DUCTWORK FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS AND CLAMPS TO BE USED AT BOTH ENDS.
4. DUCTWORK WITH TURNING VANES INSTALLED IN ALL ELBOWS OF SUPPLY AIR DUCTS, AIR EXTRACTORS AT ALL RECTANGULAR TAKE-OFFS, AND TWIST-IN TAP WITH MANUAL VOLUME DAMPER AT ALL ROUND BRANCH TAKE-OFFS TO AIR DEVICES.
5. DUCT SMOKE DETECTORS REQUIRED IN UNIT SUPPLY AIR PLENUM SHALL BE IONIZATION TYPE AND SHALL BE APPROVED AND LISTED BY UL OR FM FOR DUCT INSTALLATION. ACTIVATION OF A DUCT DETECTOR SHALL CAUSE SHUTDOWN OF HP, CONTROL AND INTERLOCK WIRING SHALL RUN IN CONDUIT WHICH SHALL BE SIZED TO SUIT THE NUMBER, TYPE AND SIZE OF CONDUCTORS AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. CONTROL AND INTERLOCK WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING PER NEC. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC. PROVIDE ALL APPROPRIATE ACCESS PANELS.
6. PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT WITH SUB-BASE AS NOTED ON PLAN, TRANSFORMERS AND 24 VOLT CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING. THERMOSTATS SHALL BE MOUNTED 48" A.F.F. AND SET POINT SHALL BE AS FOLLOWS: COOLING IN DINING 74°F; ALL OTHERS 78°F; HEATING 68°F FOR ALL. VERIFY FINAL LOCATION WITH OWNER.
7. BUILDING AIR SYSTEMS SHALL BE BALANCED PER DATA INCLUDED ON THE DRAWINGS TO ACHIEVE RELATIVE AIR VOLUMES AS INDICATED ON THE DRAWINGS AND SCHEDULED HEREIN.
8. ALL DUCT SIZES INDICATED ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.
9. WHERE SHOWN ON THE DRAWINGS, PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANTS OR SPLITTERS WITH HINGE AND ROD THRU SIDE OF DUCT WITH SET SCREW. VOLUME DAMPER HANDLES SHALL BE INSTALLED ON THE BOTTOM OF THE SPIN-IN FITTING AND SHALL HAVE RING SET IN FULL OPEN POSITION.
10. KITCHEN EXHAUST HOODS: EXTEND EXHAUST AND MAKE-UP AIR DUCT AS SHOWN AND TRANSITION AS REQUIRED TO HOOD TAPS. REFER TO HOOD DRAWINGS SHEET H1 FOR EXACT SIZES AND LOCATIONS. SLOPE EXHAUST DUCTS BACK TO KITCHEN EXHAUST HOOD. PROVIDE ACCESS DOORS AS REQUIRED FOR INSPECTION AND CLEANING. ENCLOSE KITCHEN EXHAUST DUCT IN FIRE BARRIER 15A FIRE RETARDANT DUCT WRAP AS REQUIRED BY CODE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS. HEIGHT TO FAN OUTLET: 40" ABOVE ROOF. KITCHEN HOOD SUPPLY AND EXHAUST FANS SHALL BE INTERLOCKED WITH THE FIRE SUPPRESSION SYSTEM.
11. COORDINATE LOCATIONS OF EXHAUST FAN, MAKE-UP AIR UNIT, AND HP'S WITH EXISTING STEEL BEAMS AND JOIST. COORDINATE WITH STRUCTURAL ENGINEER.
12. ALL EXHAUST OUTLETS WILL BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE.



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900 STERLING PARKWAY, SUITE 20  
LINCOLN, CA 95648

SEAL:



6/5/24  
DATE

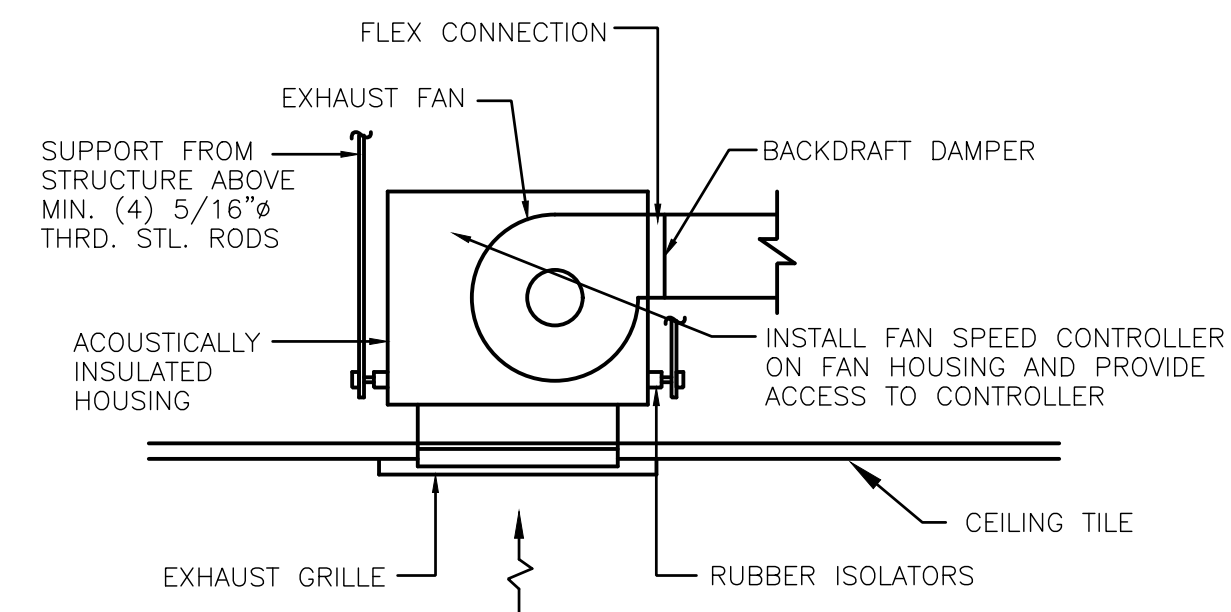
PROJECT NO.: 2024-0056  
DRAWN BY: JJV  
CHECKED BY: MRC

ISSUE: DATE:  
FOR PERMIT & BID 2024-03-25

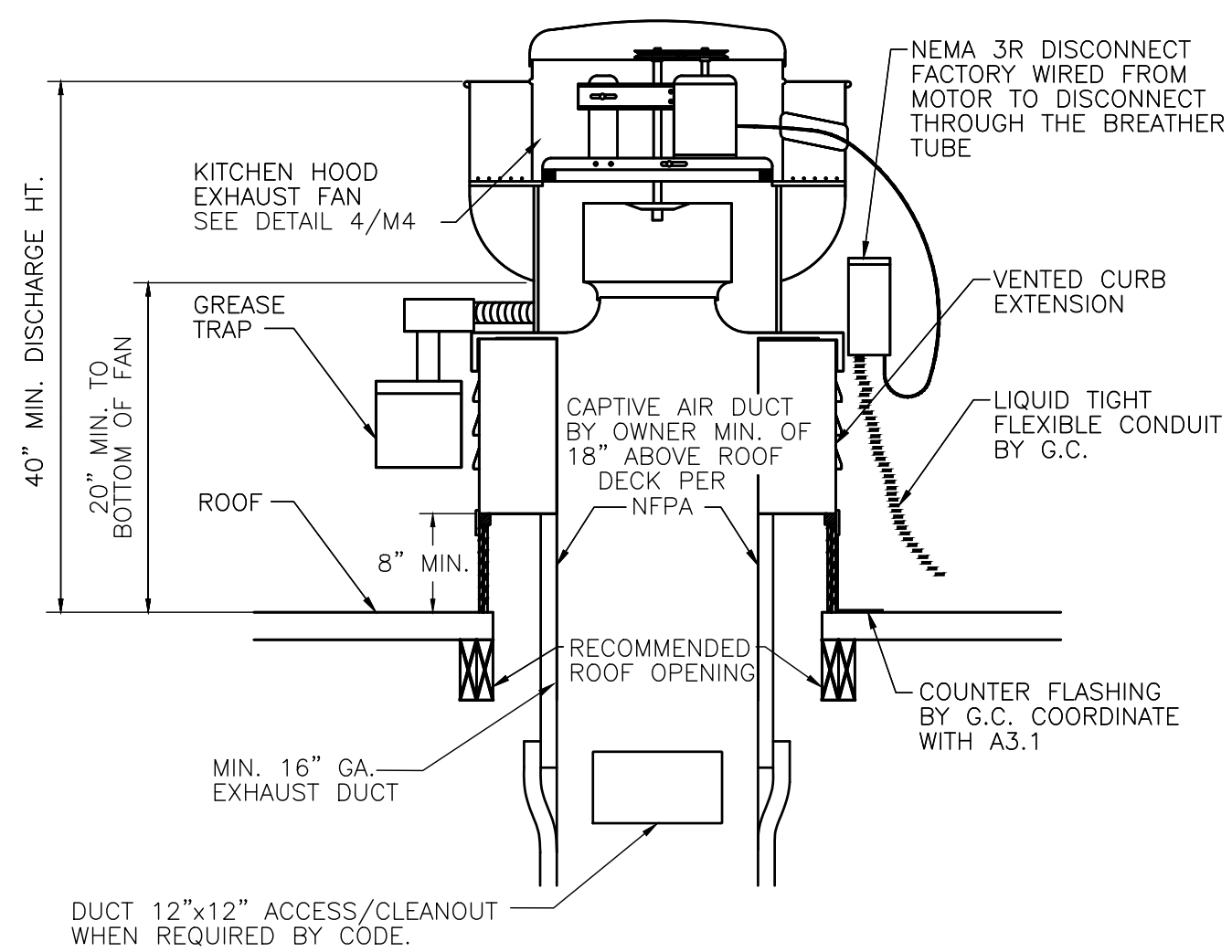
REVISION: DATE:  
REV 01 2024-05-10  
REV 02 2024-06-05

PROJECT LOCATION:  
**LINCOLN, CA**

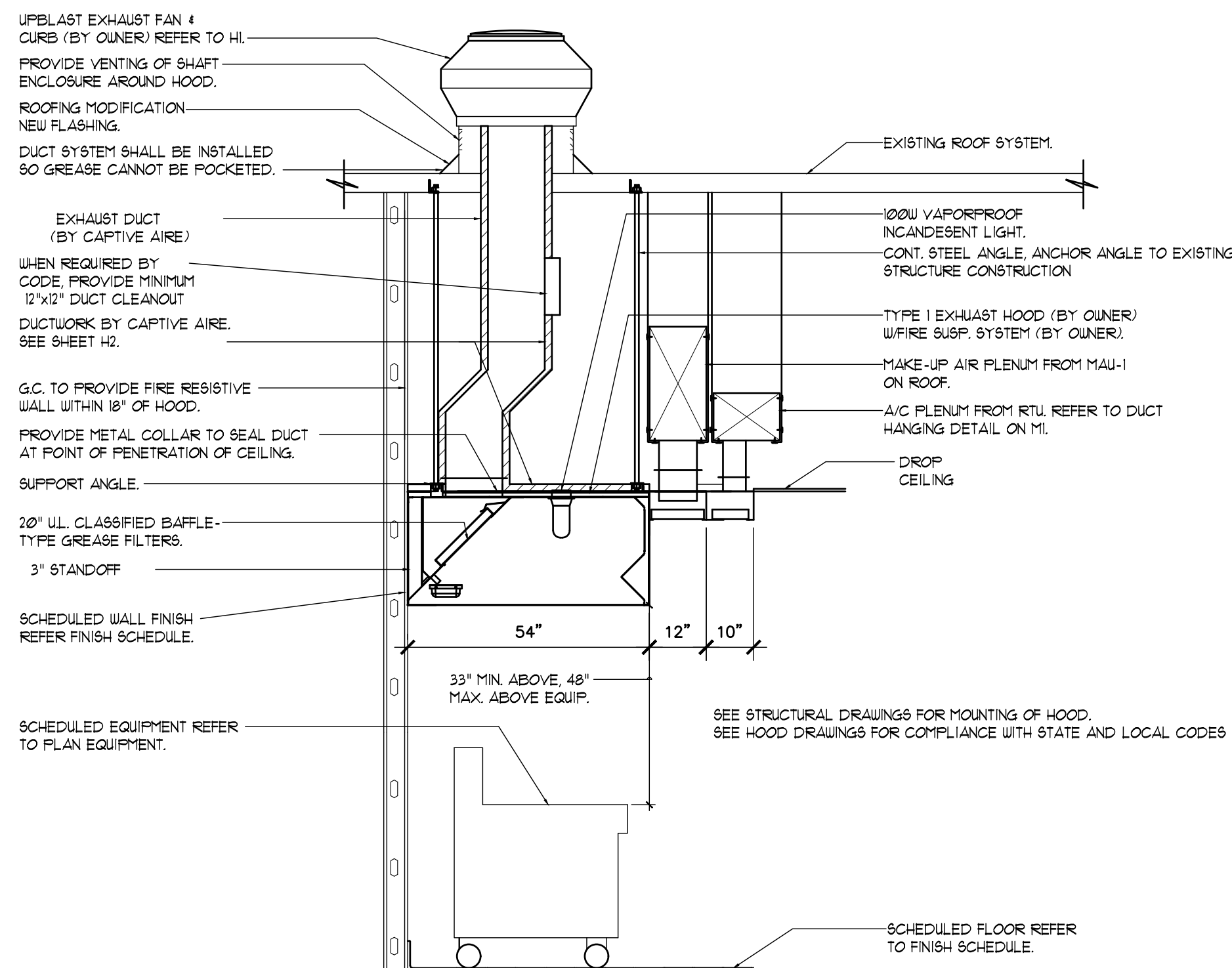
SHEET NUMBER / TITLE:  
**M1**



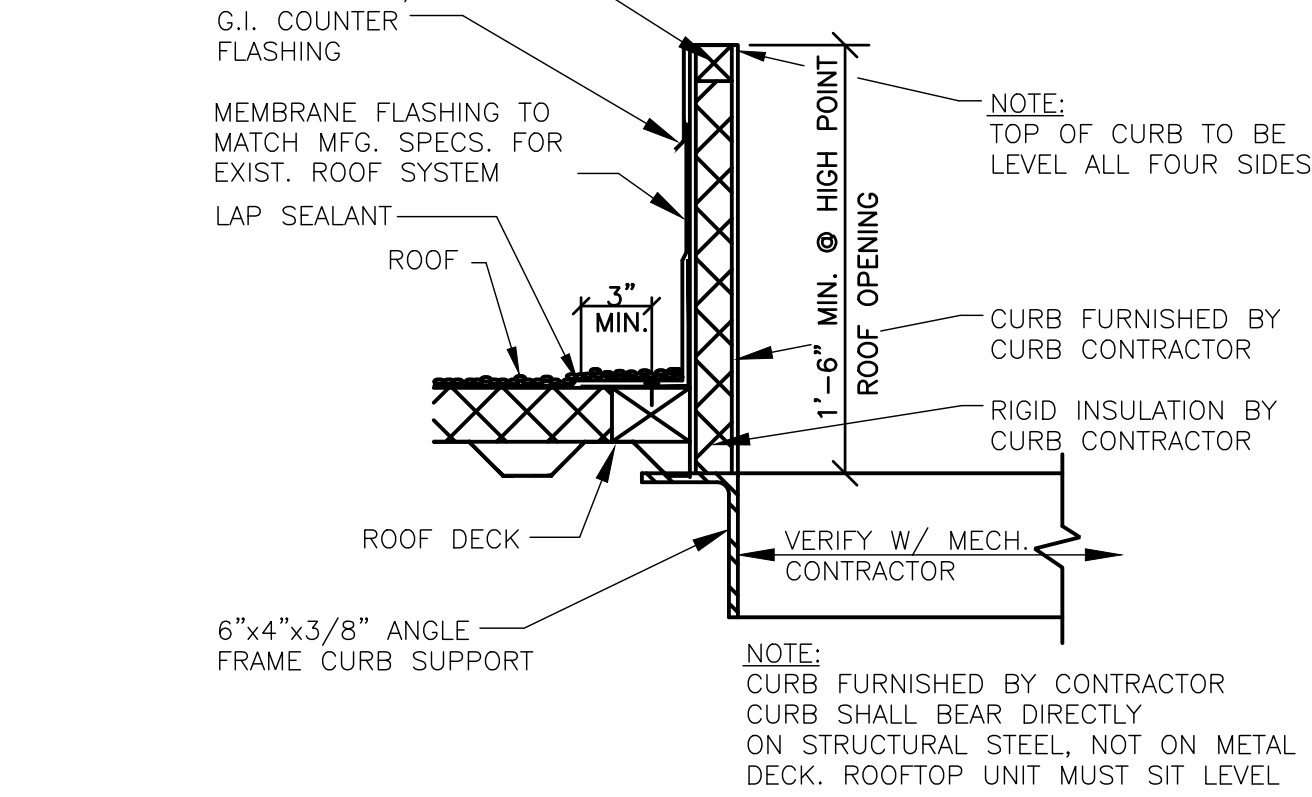
**4 CEILING MTD. EXHAUST FAN**  
SCALE: NONE



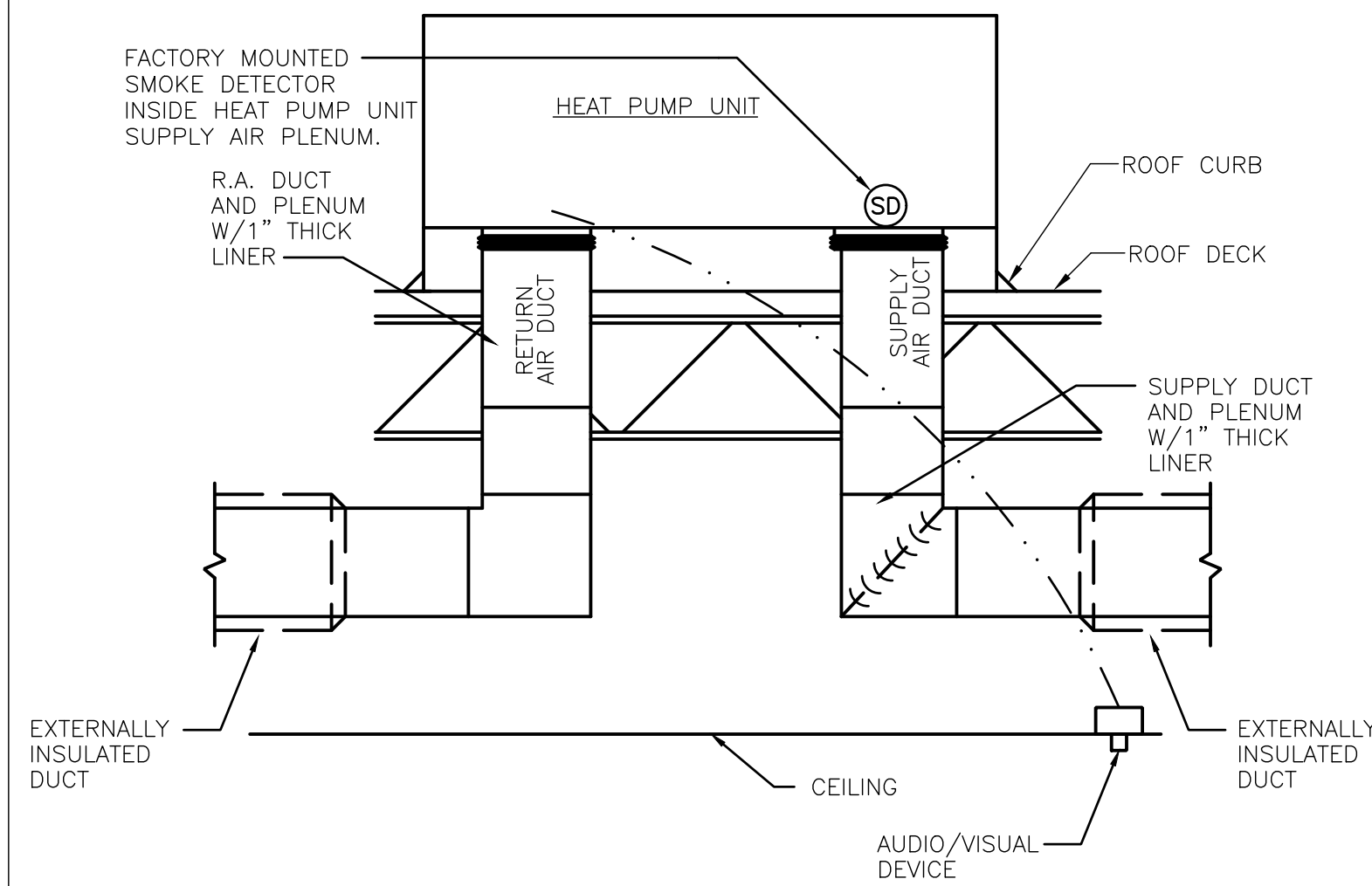
**5 RANGE HOOD EXHAUST FAN DETAIL**  
SCALE: NONE



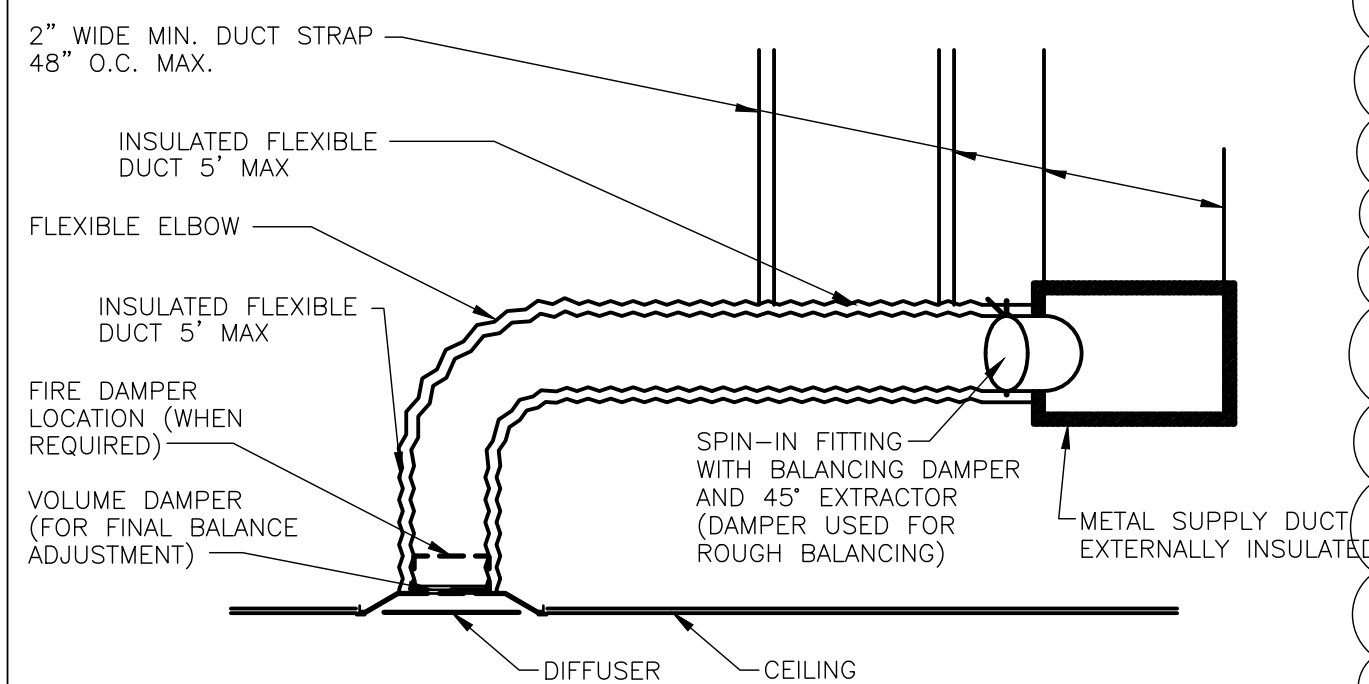
**6 EXHAUST HOOD DETAIL**  
SCALE: NONE



**1 ROOF CURB SECTION**  
SCALE: NONE



**2 HEAT PUMP UNIT MOUNTING DETAIL**  
SCALE: NONE



**3 HVAC DUCTWORK DETAIL**  
SCALE: NONE

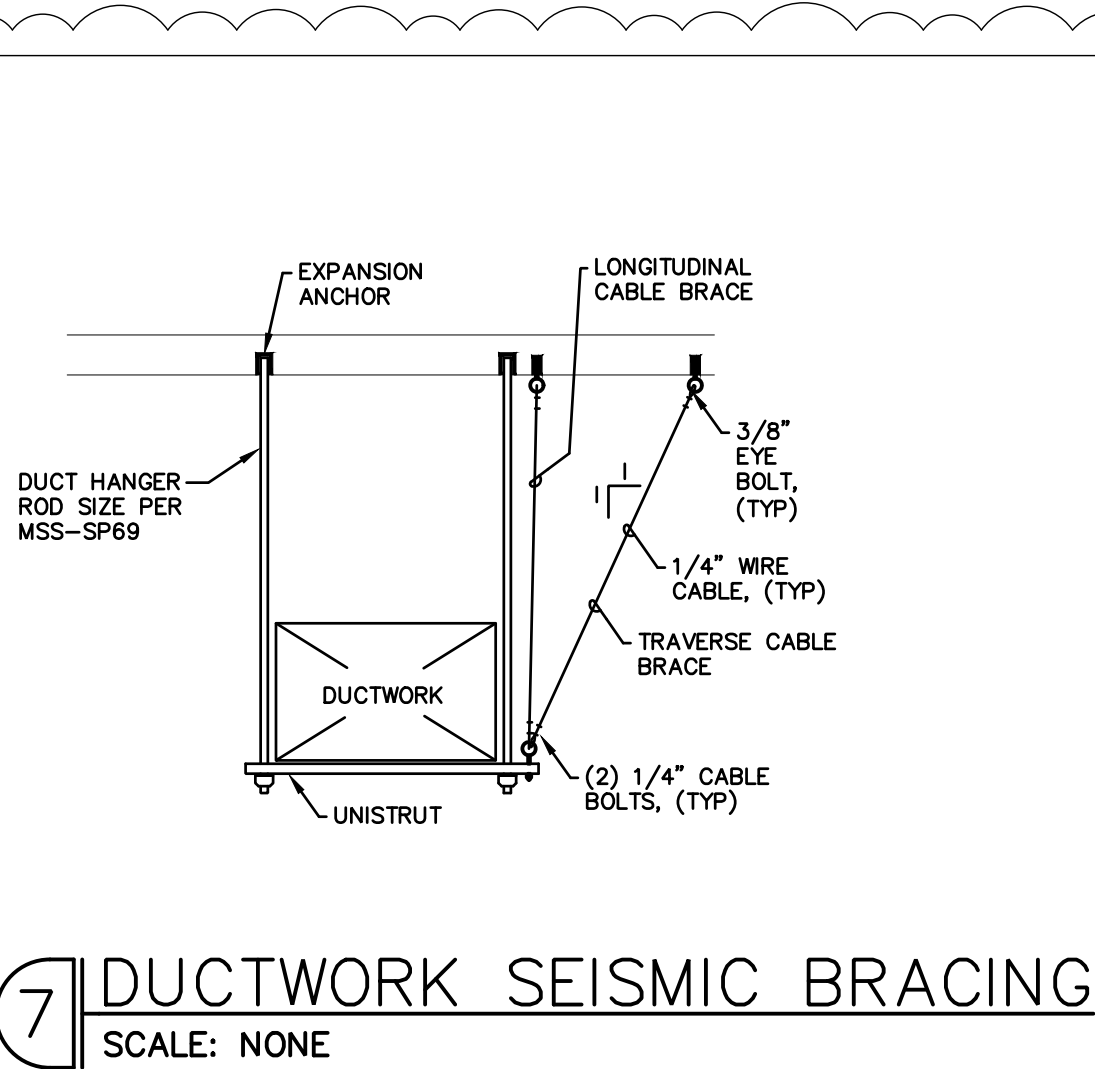
FAN SCHEDULE													
MARK	TYPE	CFM	E.S.P. (IN. W.C.)	DRIVE	MOTOR DATA HP	VOLTS	PH	STARTER	SERVES	EQUAL TO MFR	MODEL	UNIT WT.	NOTES
EF-1	ROOF	2700	1.20	DIRECT	2.0	208	3	X-LINE	KITCHEN HOOD	CAPTIVE AIR	DU180HFA	235	1,2,3,5,8,9
EF-2	CEILING	150	0.125	DIRECT	1.3 A	120	1	X-LINE	TOILET	BROAN	L150	35	2,4,6,7
MAU-1	ROOF	2160	0.50	DIRECT	2.0	208	3	X-LINE	KITCHEN HOOD	CAPTIVE AIR	EA-A1-15D	568	1,2,8,9

NOTES:  
 1. CAPTIVE AIRE SHALL PROVIDE MOTOR STARTER IN CAPTIVE AIRE WALL MOUNTED ELECTRICAL PACKAGE.  
 2. VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.  
 3. VENTED 20" ROOF CURB EXTENSION, GREASE GUARDS, GREASE TERMINATORS, GREASE CUP AND HINGE KIT PROVIDED WITH FAN INSTALLED MECHANICAL CONTRACTOR.  
 4. PROVIDE WITH BACKDRAFT DAMPER.  
 5. FAN TO BE RATED FOR UL 762.  
 6. PROVIDE WITH ROOF VENT CAP.  
 7. "ON/OFF" CONTROL WITH LIGHTS BY ELECTRICAL CONTRACTOR.  
 8. INTERLOCK OPERATION SUPPLY FANS AND EXHAUST FANS: EF-1 WITH MAU-1, AND HP-1.  
 9. MAKE-UP AIR FAN MAU-1 AND EXHAUST FAN EF-1 AND CURBS SHALL BE FINISHED WITH THE HOOD BY OWNER, INSTALLED BY THE MECHANICAL CONTRACTOR.

AIR BALANCE SCHEDULE						
UNIT MARK	SUPPLY AIR*	OUTSIDE AIR	MAKE-UP AIR	EXHAUST AIR	RETURN AIR	NOTES
HP-1	3000 CFM	540 CFM	-	-	2460 CFM	
HP-2	1600 CFM	400 CFM	-	-	1200 CFM	
MAU-1	-	-	2,160 CFM	-	-	
EF-1	-	-	-	2,700 CFM	-	
EF-2	-	-	-	150 CFM	-	
BLDG. TOTAL	4,600 CFM	940 CFM	2,160 CFM	2,850 CFM	3,660 CFM	NET 250 CFM

AIR DEVICE SCHEDULE						
PLAN MARK	*TITUS MODEL NO.	FACE SIZE	NECK SIZE	TYPE	NOTES	
S1	TMS	24"x24"	SEE DWG	DIFF.	1,2,3,4,6	
S2	PAR	24"x24"	SEE DWG	DIFF.	1,2,4	
S3	TBD-30	48"	SEE DWG	DIFF.	2,3,4,5,6	
S4	TMS	24"x24"	SEE DWG	DIFF.	1,3,7	
R1	50F	24"x24"	SEE DWG	R.G.	1,2,3,4,6	

NOTES:  
 1. PROVIDE SQUARE NECK TO ROUND ADAPTER AS REQUIRED (FOR FLEX CONNECTION)  
 2. FRAME SHALL FIT LAY-IN CEILING MODULE  
 3. MAXIMUM NC = 30  
 4. WHITE FINISH UNLESS OTHERWISE SPECIFIED.  
 5. 12" INLET, 3 SLOT, 1" SLOT WITH, LAY-IN CEILING.  
 6. GRILLES IN SALES, ORDERING, SEATING AND CORRIDORS TO BE A FLAT BLACK FACTORY FINISH.  
 7. FRAME SHALL FIT HARD CEILING MODULE



**7 DUCTWORK SEISMIC BRACING**  
SCALE: NONE

HEAT PUMP SCHEDULE (HP-1)												
MFR.	MODEL NO.	UNIT WT.	UNIT SIZE	VOLTS	HZ	PH	MCA	MOCP	MIN. AIR CFM	OUTSIDE AIR CFM		
TRANE	WSC090	1049	7.5 TONS	208	60	3	38	60	590			
TOTAL CFM	COOLING CAPACITY	HEATING MBH	EVAP. COIL SIZE	CONDENSER FAN MOTOR	NO.	SIZE	TYPE					
3000	81.0 MBH	65.6	19.83 SQ.FT.	3	0.70	4	20x25x2	T/A				

HEAT PUMP SCHEDULE (HP-2)												
MFR.	MODEL NO.	UNIT WT.	UNIT SIZE	VOLTS	HZ	PH	MCA	MOCP	MIN. AIR CFM	OUTSIDE AIR CFM		
TRANE	WSC048	525	4 TONS	208	60	3	25.6	40	400			
TOTAL CFM	COOLING CAPACITY	HEATING MBH	EVAP. COIL SIZE	CONDENSER FAN MOTOR	NO.	SIZE	TYPE					
1600	49.0 MBH	44.0	10.96 SQ.FT.	3	0.40	2	20x30x1	T/A				

- PROVIDE & INSTALL 100% ECONOMIZER PACKAGE AT HP-1,2.
- CONTRACTOR SHALL PROVIDE UNITS w/PRE-FABRICATED (14") ROOF CURB.
- PROVIDE UNIT WITH 7-DAY PROGRAMMABLE THERMOSTATS WITH NIGHT SET BACK CAPABILITIES.
- PROVIDE UNITS WITH ANTICYCLE TIME DELAY AND HIGH AND LOW PRESSURE PROTECTION.
- ADJUST O.A. DAMPERS AT HP-1 AND HP-2 TO CFM SCHEDULED.
- INTERLOCK HP-1 WITH EF-1 AND MAU-1. HP-1 AND MAU-1 MUST BE OPERATING WHEN EF-1 IS OPERATING.
- VERIFY ELECTRICAL VOLTAGE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED. PLEASE REFER TO THE TRANE NATIONAL ACCOUNT PROGRAM SCHEDULE BLOCK FOR DETAILS ON PRICING AND ORDERING OR CONTACT: WINGSTOP NATIONAL ACCOUNT TEAM 866-986-4822 EMAIL: WINGSTOP@TRANE.COM ACCOUNT MANAGER: AUSTIN LUPTON
- OR APPROVED EQUAL EQUIPMENT - CARRIER, LENNOX, YORK

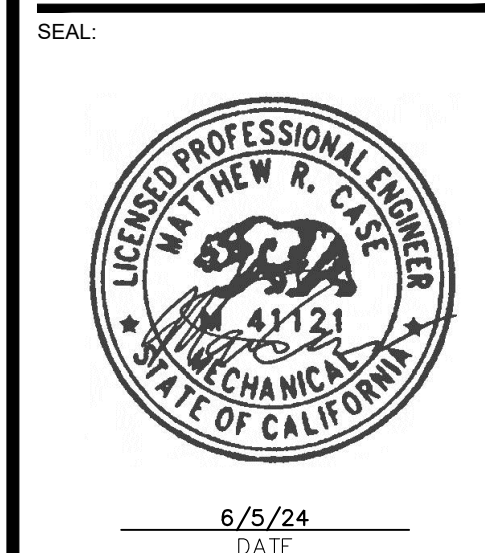


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 STORE NUMBER: GL#AB246  
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 LINCOLN, CA 95648



PROJECT NO.: 2024-0056  
 DRAWN BY: JJV  
 CHECKED BY: MRC

ISSUE: DATE:  
 FOR PERMIT & BID 2024-03-25

REVISION: DATE:  
 REV 01 2024-05-10  
 REV 02 2024-06-05

PROJECT LOCATION:  
 LINCOLN, CA

SHEET NUMBER / TITLE:  
**M2**

## DIVISION - 15 MECHANICAL SPECIFICATIONS

### GENERAL

A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

### SCOPE

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

### INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

### PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

### CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

### MATERIALS AND WORKMANSHIP

A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

### CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

### PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

### CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

### COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

### SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

### SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

### DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

### RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

### HEATING, VENTILATING AND AIR CONDITIONING

#### GENERAL

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

#### EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

#### SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

#### EQUIPMENT

A. 1. ROOFTOP UNITS: FURNISH HEATING AND AIR CONDITIONING AS SCHEDULED. UNIT TO BE COMBINED PACKAGED SYSTEM, ALL SEASON EQUIPMENT, CONSISTING OF GAS HEATING SECTION, BLOWER, DX COIL, COMPRESSOR(S), AND AIR COOLED CONDENSING SECTION. UNIT SHALL BE DESIGNED FOR DOWN FLOW ARRANGEMENT WITH ALL DUCT PENETRATIONS WITHIN FACTORY ROOF CURB.

2. FEATURES: UNITS TO BE WOUND FOR VOLTAGE AND PHASE AS SCHEDULED. HEAVY GAUGE ALUMINIZED STEEL, STAINLESS STEEL OR COATED HEAT EXCHANGER WILL BE ACCEPTABLE. UNIT MUST BE A.G.A. APPROVED FOR OUTDOOR APPLICATION. DIRECT EXPANSION COIL WITH FACTORY INSTALLED EXPANSION VALVE - BLOWER SHALL BE OF THE CENTRIFUGAL BELT DRIVEN OR MULTI-SPEED DIRECT DRIVE TYPE WITH FORWARD CURBED BLADES - BLOWER AND MOTOR ISOLATED FOR QUIET OPERATION - BUILT IN MOTOR STARTER WITH OVER VOLTAGE PROTECTION. HERMETICALLY SEALED COMPRESSOR WITH INHERENT OVERLOAD PROTECTION THERMOSTAT - NON-PRORATED 5-YEAR WARRANTY ON COMPRESSOR AND 10-YEAR WARRANTY ON HEAT EXCHANGER - CONDENSER COIL CONSTRUCTED OF COPPER TUBING WITH ALUMINUM FINS - CRANKCASE HEATERS - BUILT IN MOTOR STARTERS ELECTRIC IGNITION - HIGH, LOW PRESSURE CUTOFF ON COMPRESSOR - SHUTOFF VALVES ON LIQUID AND SUCTION LINES - SHORT CYCLE TIMER PROTECTION - FILTER - DRYER - VIBRATION ISOLATION. UNIT FACTORY CHARGED.

3. ACCESSORIES: SUPPLY AND RETURN FILTER CASING ASSEMBLY, TWO COMPLETE SETS OF THROWAWAY TYPE FILTERS. FILTERS SHALL BE 2" THICK. ONE SET TO BE REMOVED AND REPLACED JUST PRIOR TO FINAL INSPECTION - FULL ECONOMIZER PACKAGE WITH LOW LEAKAGE FRESH AIR STANDARD RETURN AIR DAMPERS AND DAMPER MOTOR, MINIMUM POSITION SETTING - PROVIDE MANUFACTURER'S INTERFACE AS REQUIRED FOR OPERATION WITH THERMOSTAT AS SPECIFIED. PROVIDE MOUNTING CURB APPROVED BY NATIONAL ROOF CONTRACTORS ASSOCIATION TO SUPPORT THE ENTIRE ASSEMBLY WITH NAILER STRIP AND AIR TIGHT GASKET.

E. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH PROGRAMMABLE THERMOSTAT. DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

COOLING: 75°F MAXIMUM OCCUPIED COOLING TEMPERATURE  
85°F COOLING NIGHT SETBACK.

HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE  
60°F HEATING NIGHT SETBACK.

FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.

DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND.

CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES.

OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER.

BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT LEAST 10 HOURS WITHOUT POWER.

F. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GAUGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENTERS

GREASE DUCTS SHALL BE BLACK CARBON STEEL NOT LESS THAN 0.054" (16 GA.). ALL SEAMS, JOINTS, AND PENETRATIONS SHALL HAVE A LIQUID TIGHT, CONTINUOUS, EXTERNAL WELD.

1. THE KITCHEN HOOD EXHAUST DUCTWORK SHALL BE ENCLOSED IN A RATED ENCLOSURE PER CODE.

2. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE:  
-ALL NECESSARY TRANSITION AND CONNECTION FITTINGS TO THE HOOD AND EXHAUST FANS.  
- ALL CLEAN-OUT ACCESS PANELS AS REQUIRED BY CODE.  
- ALL ELBOW AND TRANSITION FITTINGS.  
- ALL HANGERS AND SUPPORTS.  
-SHOP DRAWINGS SHOWING PROPOSED FABRICATION AND INSTALLATION COORDINATED WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.

ROUND LOW PRESSURE DUCTS SHALL BE SPIRAL WOUND AS MANUFACTURED BY UNITED SHEET METAL COMPANY OR SHOP FABRICATED ROUND DUCTS WITH PITTSBURGH LOCK LONGITUDINAL SEAMS. GAUGES FOR ROUND FABRICATED DUCTS SHALL BE AS FOLLOWS:

UP TO 12" IN DIAMETER	NO. 26 GAUGE
13" TO 30"	NO. 24 GAUGE
31" TO 42"	NO. 22 GAUGE
43" TO 60"	NO. 20 GAUGE

ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.

1. ALL EXPOSED ROUND LOW PRESSURE DUCTWORK SHALL BE INTERNALLY LINED.

2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL MMM EC-800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1" (R-5) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.

D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE-HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

#### HANGERS AND SUPPORTS

A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1-1/4" x 1-1/4" x 1-1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

#### FLASHING

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACTOR'S SUBCONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

#### DAMPERS

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK - LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.

CONCEALED DUCTWORK - LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE-HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF-LUBRICATING FERRULE TYPE.

C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILING, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.

D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER-COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER-LINE RADIUS OF ONE AND ONE-HALF (1-1/2) TIMES THE DUCT WIDTH.

#### DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

#### SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED MANUAL ARE ADHERED TO.

DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'-0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'-0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'-0" O.C.

#### REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

#### ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

#### TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

A. AIR DISTRIBUTION SYSTEMS:

- INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN. VERIFY THAT SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE-TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS.
- VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL.
- VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED, INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES, SMOKE DETECTORS, ETC.

C. UPON COMPLETION OF THE INSTALLATION AND START-UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.

D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:

- SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS.
- AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR HANDLING DEVICE.
- AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.
- MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR.
- TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE FORMS.
- MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.
- INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

#### GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

#### MECHANICAL

##### TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

A. TELEPHONE - THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A-1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

B. TEMPORARY WATER - WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

C. TEMPORARY ELECTRICITY - TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

D. TEMPORARY HEAT - WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

E. COST OF LANDLORD PROVIDED UTILITY SERVICES - IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

#### NOTE FOR TENANT GENERAL CONTRACTOR

IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

CONSULTANT:

**CASE**  
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T 636.549.1600  
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CLIENT:



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PROJECT INFORMATION:

**WING-STOP**  
STORE NUMBER: GL#AB246  
STERLING POINTE  
900 STERLING PARKWAY, SUITE 20  
LINCOLN, CA 95648

SEAL:



6/5/24  
DATE

PROJECT NO.: 2024-0056  
DRAWN BY: JJV  
CHECKED BY: MRC

ISSUE: DATE:  
FOR PERMIT & BID 2024-03-25

REVISION: DATE:  
REV 01 2024-05-10  
REV 02 2024-06-05

PROJECT LOCATION:  
**LINCOLN, CA**

SHEET NUMBER / TITLE:

**M3**



CONSULTANT:



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REV 02 2024-06-05

PROJECT LOCATION:  
LINCOLN, CA

SHEET NUMBER / TITLE:

M5

STATE OF CALIFORNIA  
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE NRCC-MCH-E  
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.  
Project Name: Wingstop - Lincoln, CA Report Page: (Page 1 of 11)  
Project Address: Report Date Prepared: 2024-03-19T11:37:06-04:00

**A. GENERAL INFORMATION**

01 Project Location (city)	Lincoln	04 Total Conditioned Floor Area	1391
02 Climate Zone	11	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:	06 # of Stories (Habitable Above Grade)		1

- Restaurant

**B. PROJECT SCOPE**  
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input checked="" type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
Mechanical Controls	<input type="checkbox"/> System Piping	<input type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

Generated Date/Time: Documentation Software: Energy Code Ace  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 185470-0324-0003  
Schema Version: rev 20220101 Report Generated: 2024-03-19 08:37:11

STATE OF CALIFORNIA  
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE NRCC-MCH-E  
Project Name: Wingstop - Lincoln, CA Report Page: (Page 3 of 11)  
Date Prepared: 2024-03-19T11:37:06-04:00

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Space Conditioning System Information**

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-2		Single zone	New/ Addition	All Other Occupancies	<input type="checkbox"/>

**Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)**

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3iii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output <sup>2,3</sup>			Cooling Output <sup>2,3</sup>		Load Calculations <sup>3,4</sup>	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	74.3	81	0	76	81	81	81
HP-2	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	44	49	0	39.2	49	44	49

<sup>1</sup>FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are exempted.  
<sup>2</sup>It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.  
<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.  
<sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Generated Date/Time: Documentation Software: Energy Code Ace  
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 185470-0324-0003  
Schema Version: rev 20220101 Report Generated: 2024-03-19 08:37:11

STATE OF CALIFORNIA  
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE NRCC-MCH-E  
Project Name: Wingstop - Lincoln, CA Report Page: (Page 5 of 11)  
Date Prepared: 2024-03-19T11:37:06-04:00

**H. FAN SYSTEMS & AIR ECONOMIZERS**  
This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	HP-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	3,000	Site Elevation	167	Economizer	Fixed Temperature
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance	Fan Allowance (watt/cfm) <sup>3</sup>	Design Electrical Input Power Method	Motor Nameplate Horsepower	Design Electrical Input Power (kW)					
HP-1	Supply	1	100% outdoor air system Economizer Return Damper MERV 13-16 Filter downstream of thermal conditioning equipment	100 100 100		0.07 0.04 0.23	0.347	Default per Table 140.4-D	<1	0.96					
Supply Fan Base Allowance (kW)	0.232		Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)	0		Fan System Allowance (kW) <sup>1</sup>	2.77		Fan System Electrical Output (kW)	1.92					

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STATE OF CALIFORNIA  
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION  
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Project Name: Wingstop - Lincoln, CA Report Page: (Page 2 of 11)  
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**C. COMPLIANCE RESULTS**  
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01	02	03	04	05	06	07	08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND Pumps 140.4(k), 170.2(c)4i	AND Fans/Economizers 140.4(c), 140.4(e), 170.2(c)	AND System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND Ventilation 120.1, 160.2	AND Terminal Box Controls 140.4(d), 170.2(c)4B	AND Distribution 120.3, 140.4(l), 160.2, 160.3	AND Cooling Towers 110.2(e)2	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	AND	Yes	AND	Yes	AND		COMPLIES with Exceptional Conditions

Mandatory Measures Compliance (See Table Q for Details) COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Space Conditioning System Information**

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-1		Single zone	New/ Addition	All Other Occupancies	<input type="checkbox"/>

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STATE OF CALIFORNIA  
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION  
CERTIFICATE OF COMPLIANCE NRCC-MCH-E  
Project Name: Wingstop - Lincoln, CA Report Page: (Page 4 of 11)  
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**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)**

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1	>=65,000 and <135,000	17 °Fdb/ 15 °Fwb OSA	COP	2.25	8	EER IEER	11 14.1	12 14.3
HP-2	<65,000		HSPF	8.2	8.2	SEER	14	14

**G. PUMPS**  
This section does not apply to this project.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 185470-0324-0003  
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STATE OF CALIFORNIA  
**Mechanical Systems** CALIFORNIA ENERGY COMMISSION  
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Schema Version: rev 20220101 Report Generated: 2024-03-19 08:37:11

CLIENT:



15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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PROJECT INFORMATION:

WINGSTOP STORE NUMBER: GL#AB246 STERLING POINTE 900 STERLING PARKWAY, SUITE 20 LINCOLN, CA 95648

SEAL:



6/5/24 DATE

PROJECT NO.: 2024-0056 DRAWN BY: JJV CHECKED BY: MRC

ISSUE: DATE: FOR PERMIT & BID 2024-03-25

REVISION: DATE: REV 01 2024-05-10 REV 02 2024-06-05

PROJECT LOCATION: LINCOLN, CA

SHEET NUMBER / TITLE: M6

Mechanical Systems CERTIFICATE OF COMPLIANCE Report Page: (Page 6 of 11) Date Prepared: 2024-03-19T11:37:06-04:00 H. FAN SYSTEMS & AIR ECONOMIZERS

Mechanical Systems CERTIFICATE OF COMPLIANCE Report Page: (Page 8 of 11) Date Prepared: 2024-03-19T11:37:06-04:00 K. TERMINAL BOX CONTROLS L. DISTRIBUTION (DUCTWORK and PIPING)

Mechanical Systems CERTIFICATE OF COMPLIANCE Report Page: (Page 10 of 11) Date Prepared: 2024-03-19T11:37:06-04:00 N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Mechanical Systems CERTIFICATE OF COMPLIANCE Report Page: (Page 7 of 11) Date Prepared: 2024-03-19T11:37:06-04:00 Fan Energy Index (FEI) I. SYSTEM CONTROLS

Mechanical Systems CERTIFICATE OF COMPLIANCE Report Page: (Page 9 of 11) Date Prepared: 2024-03-19T11:37:06-04:00 L. DISTRIBUTION (DUCTWORK and PIPING) M. COOLING TOWERS

Mechanical Systems CERTIFICATE OF COMPLIANCE Report Page: (Page 11 of 11) Date Prepared: 2024-03-19T11:37:06-04:00 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT RESPONSIBLE PERSON'S DECLARATION STATEMENT



CLIENT: 15505 WRIGHT BROTHERS DRIVE ADDISON, TX 75001 TELEPHONE: (972) 686-6500 FAX: (972) 686-6502

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PROJECT INFORMATION:

WINGSTOP STORE NUMBER: GL#B246 STERLING POINTE 900 STERLING PARKWAY, SUITE 20 LINCOLN, CA 95648

SEAL:



6/5/24 DATE

PROJECT NO.: 2024-0056 DRAWN BY: JJV CHECKED BY: MRC

ISSUE: DATE: FOR PERMIT & BID 2024-03-25

REVISION: DATE: REV 01 2024-05-10 REV 02 2024-06-05

PROJECT LOCATION: LINCOLN, CA

SHEET NUMBER / TITLE: M7

STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIANCE NRC-C-PRC-E Project Name: Wingstop - Lincoln, CA Report Page: (Page 5 of 6) Date Prepared: 2024-03-19T10:46:35-04:00

R. Pool & SPAs This section does not apply to this project.

S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

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STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIANCE NRC-C-PRC-E Project Name: Wingstop - Lincoln, CA Report Page: (Page 3 of 6) Date Prepared: 2024-03-19T10:46:35-04:00

H. ENCLOSED PARKING GARAGE EXHAUST This section does not apply to this project.

I. PROCESS BOILER This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS This section does not apply to this project.

K. ELEVATOR LIGHTING AND VENTILATION This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in 140.9(b). Kitchen Ventilation 140.9(b)2

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STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIANCE NRC-C-PRC-E Project Name: Wingstop - Lincoln, CA Report Page: (Page 1 of 6) Date Prepared: 2024-03-19T10:46:35-04:00

A. GENERAL INFORMATION Table with columns: 01 Project Location (city), 02 Climate Zone, 03 Occupancy Types Within Project, 04 Total Conditioned Floor Area, 05 Total Unconditioned Floor Area, 06 # of Stories (Habitable Above Grade)

B. PROJECT SCOPE This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9.

My project consists of: (check all that apply): 01 Refrigerated Spaces <3,000 ft² Total (no Title 24, P16 requirements), 02 Escalator & Moving Walkway Speed Controls (mandatory 120.6(g)), 03 Refrigerated Spaces >=3,000 ft² Total (mandatory 120.6(a)), 04 Computer Rooms (mandatory 120.6(j) and prescriptive 140.9(a))¹, 04 Food /Beverage Stores >8,000 ft² cfa (mandatory 120.6(b)), 05 Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b))¹, 05 Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory 120.6(c)), 06 Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c))¹, 06 Newly Installed Process Boilers (mandatory 120.6(d)), 06 Pool/Spa (mandatory 110.4 / 160.7), 06 Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e)), 06 Controlled Environment Horticulture (mandatory 120.6(h)), 06 Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7), 06 New Steam Traps (mandatory 120.6(i))

¹ FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E.

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STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIANCE NRC-C-PRC-E Project Name: Wingstop - Lincoln, CA Report Page: (Page 6 of 6) Date Prepared: 2024-03-19T10:46:35-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Matthew R Case Documentation Author Signature: [Signature] Company: Case Engineering Signature Date: 3/19/24 Address: 796 Menz Court City/State/Zip: Fenton, MO 63026 CEI/ HERS Certification Identification (if applicable): Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Matthew R Case Responsible Designer Signature: [Signature] Company: Case Engineering Date Signed: 3/19/24 Address: 796 Menz Court License: City/State/Zip: Fenton, MO 63026 Phone:



Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 185470-0324-0002 Schema Version: rev 20220101 Report Generated: 2024-03-19 07:46:38

STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIANCE NRC-C-PRC-E Project Name: Wingstop - Lincoln, CA Report Page: (Page 4 of 6) Date Prepared: 2024-03-19T10:46:35-04:00

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION Table with columns: 02 Replacement Air to Hood Compliance Method 140.9(b)1A, 03 Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate, 04 Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of: The supply flow required to meet the space heating and cooling load, 04 Location that is supplying transfer air; The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B: At least 50% of all replacement air is transferred air that would otherwise be exhausted, Kitchen Exhaust: Airflow Rate 140.9(b)1B, 01 Kitchen Name or Item Tag, Kitchen-1, Compliance Method per 140.9(b)1B, 02 Hood Type¹, 03 Hood Style, 04 Hood Length (ft), 05 Equipment Duty, 06 Design Hood Exhaust Rate CFM, 07 Max Hood Exhaust Rate Allowed CFM, 08 Hood-1, Type I, 2700

¹ FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS This section does not apply to this project.

P. CONTROLLED ENVIRONMENT HORTICULTURE This section does not apply to this project.

Q. STEAM TRAPS IN INDUSTRIAL FACILITIES This section does not apply to this project.

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STATE OF CALIFORNIA Process Systems CERTIFICATE OF COMPLIANCE NRC-C-PRC-E Project Name: Wingstop - Lincoln, CA Report Page: (Page 2 of 6) Date Prepared: 2024-03-19T10:46:35-04:00

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Table with columns: 01 Refrigerate d Warehouse / Space 120.6(a) (See Table F), 02 Commercial Refrigeratio n 120.6(b) (See Table G), 03 Parking Garage Exhaust 120.6(c) (See Table H), 04 Process Boilers 120.6(d) (See Table I), 05 Compressed Air Systems 120.6(e) (See Table J), 06 Elevators 120.6(f) / 160.7 (See Table K), 07 Escalators & Moving Walkways 120.6(g) (See Table L), 08 Computer Rooms 140.9(a) (See Table M), 09 Commercial Kitchens 140.9(b) (See Table N), 10 Laboratory/ Factory Exhaust 140.9(c) (See Table O), 11 Controlled Environment Horticulture 120.6(h) (See Table P), 12 Steam Traps 120.6(i) (See Table Q), 13 Multifamily Pool/Spa 160.7 (See Table R), 14 Compliance Results

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. REFRIGERATED WAREHOUSES/SPACES This section does not apply to this project.

G. COMMERCIAL REFRIGERATION This section does not apply to this project.

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