GENERAL NOTES

A. CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, PIPING OR EQUIPMENT.

B. ALL ROOFTOP EQUIPMENT SHALL HAVE MANUFACTURER SUPPLIED ROOF CURBS AND PIPE SEALS.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES, BUT IS NOT LIMITED TO REFRIGERANT LINES, ETC.

D. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENT.

E. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.

F. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALV. STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT. THE MAXIMUM ALLOWABLE LENGTH OF THE FLEX DUCT SHALL BE 5'-0".

G. NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILINGS.

H. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. NO ALLOWANCE MADE FOR LINER OR WRAP.

I. CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. 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.

J. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. INSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED.

K. ALL SUPPLY AND RETURN AIR DEVICES SHALL BE PAINTED AS REQUIRED BY THE OWNER.

L. ALL DUCTWORK IS TO BE INSTALLED AS HIGH AND AS TIGHT TO STRUCTURE AS POSSIBLE.

M. ALL HORIZONTAL GREASE DUCT IS TO SLOPE 1/4" PER FOOT PER NFPA 96, CURRENT EDITION.

N. ALL TURNS IN KITCHEN EXHAUST DUCT ARE TO BE ACCOMPLISHED BY THE USE OF 1.5 CENTERLINE RADIUS SMOOTH RADIUS ELBOWS.

O. INSTALLING CONTRACTOR TO PROVIDE AND INSTALL ALL CODE REQUIRED FIRE RATED ACCESS DOORS IN GREASE DUCTS AT ALL LOCATIONS REQUIRED BY CODE AND LOCAL AUTHORITY HAVING JURISDICTION.

P. COORDINATE BRANCH DUCT LOCATIONS WITH TRUSS WEBS, ROOF SCREEN POSTS AND LIGHTING.

Q. HOOD EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER NFPA 96, 2004 EDITION AND INTERNATIONAL MECHANICAL CODE (IMC) 2009. SITE ADAPT: PROVIDE CODE AND EDITION USED.

R. ALL EXPOSED DUCT AND FITTINGS SHALL BE PROVIDED WITH A MILL PHOSPHATIZED FINISH ("PAINT GRIP", "ZINC GRIP" OR SIMILAR ETCH TREATMENT) TO ALLOW THE DUCTWORK TO BE PAINTED.

S. DUCT SMOKE DETECTORS REQUIRE A REMOTE LED INDICATOR THRU THE CEILING LEVEL. NFPA 72 3-8.4.2.2 AND 2-10.5.8.

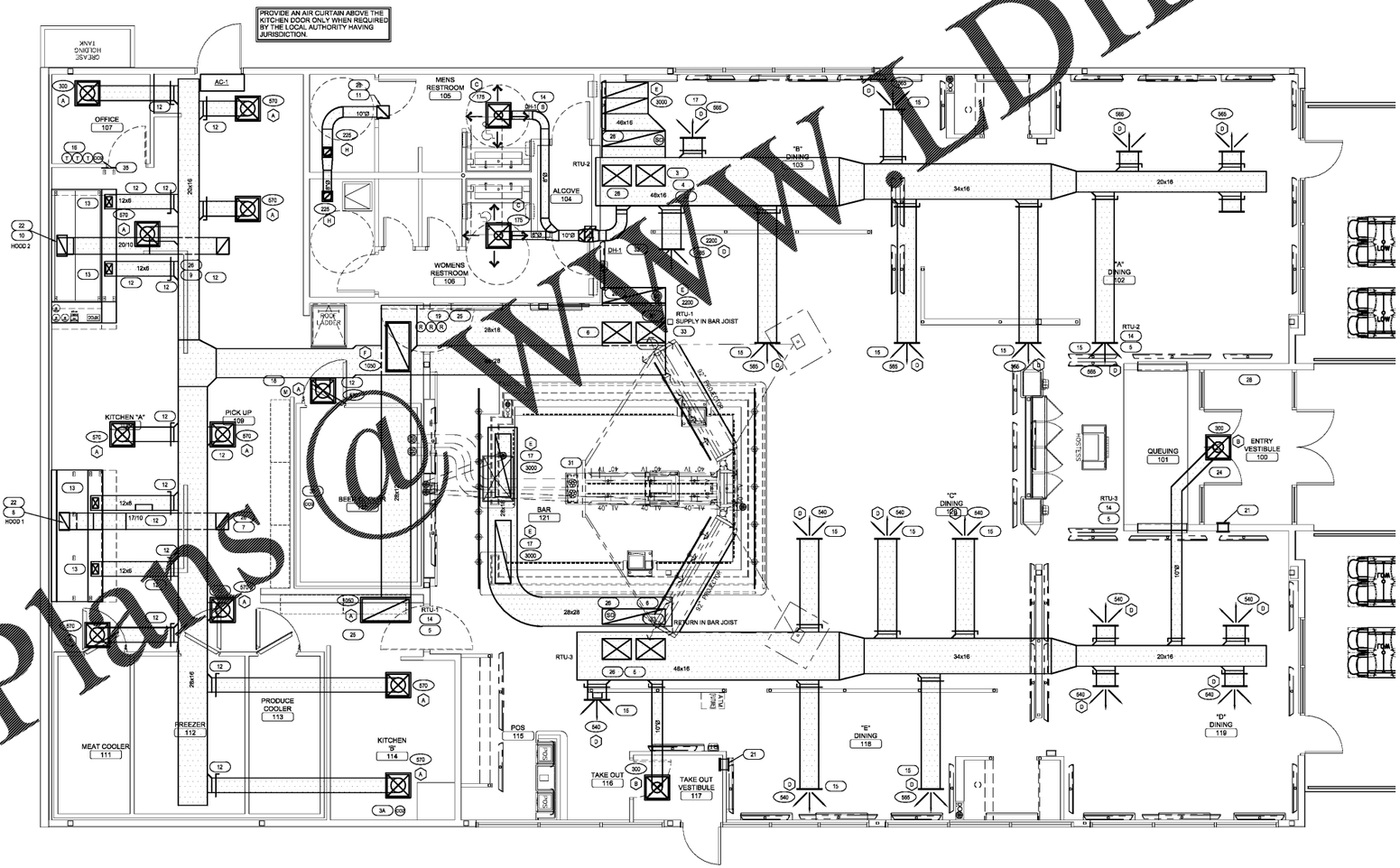
T. THE INSTALLING CONTRACTOR IS TO PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL FIELD MODIFICATIONS, AT THE CONCLUSION OF THE PROJECT.

U. ALL EXPOSED DUCTWORK IS TO BE LINED 1" SUPPLY, 1 " RETURN.

V. ALL ROOF PENETRATIONS AND REPAIRS SHALL BE BY THE GENERAL CONTRACTOR. ROOFING WORK SHALL BE PERFORMED BY THE ROOFING CONTRACTOR.

KEY NOTES

3. 60x20 SUPPLY AIR DUCT DOWN THRU ROOF FROM RTU-2.
4. 60x16 RETURN AIR DUCT UP THRU ROOF TO RTU-2.
5. 60x20 SUPPLY AIR DUCT DOWN THRU ROOF FROM RTU-3.
6. 60x16 RETURN AIR DUCT UP THRU ROOF TO RTU-3.
7. 13x13 GREASE EXHAUST DUCT UP THRU ROOF TO EF-1. DUCT TO BE 16 GA. BLACK IRON WELDED LIQUID TIGHT.
8. 17x10 GREASE EXHAUST DUCT DOWN TO 20x12 TYPE I HOOD COLLAR. DUCT TO BE 16 GA. BLACK IRON WELDED LIQUID TIGHT. PROVIDE TRANSITION AT HOOD COLLAR.
9. 13x13 GREASE EXHAUST DUCT UP THRU ROOF TO EF-2. DUCT TO BE 16 GA. BLACK IRON WELDED LIQUID TIGHT.
10. 20x10 GREASE EXHAUST DUCT DOWN TO 20x12 TYPE I HOOD COLLAR. DUCT TO BE 16 GA. BLACK IRON WELDED LIQUID TIGHT. PROVIDE TRANSITION AT HOOD COLLAR.
11. 10x10 TOILET EXHAUST DUCT UP THRU ROOF TO EF-3.
12. BALANCING DAMPER.
13. 10X8 CAPPED SUPPLY AIR PLENUM DOWN TO HOOD COLLAR. 300 CFM EACH.
14. LOCATION OF REMOTE TEMPERATURE SENSOR 56" A.F.F.
15. REGISTER OPENINGS SHALL EXTEND TO CLOUD EDGE.
16. LOCATION OF THERMOSTATS FOR RTU-1, RTU-2 AND RTU-3.
17. MOUNT RETURN GRILLE 12" BELOW STRUCTURE ON TOP OF RETURN DUCT.
18. LOCATION OF ANSUL SYSTEM REMOTE MANUAL PULL STATION. VERIFY EXACT LOCTION WITH KITCHEN EQUIPMENT SUPPLIER.
19. LOCATION OF DUCT SMOKE DETECTOR TEST/RESET - MOUNT 60" A.F.F.
20. NOT USED.
21. TRANSFER GRILLE AS HIGH AS POSSIBLE BELOW CEILING. INSTALL GRILLE ON EACH SIDE OF WALL.
22. PITCH HORIZONTAL DUCT AT 1/4"/FT. DUCT TO BE ENCASED IN 2 LAYERS OF FIREMASTER FASTWRAP XL OR PYROSCAT DUCTWRAP XL WITH NO OVERLAPS. INSTALLATION SHALL MEET ICC STANDARD ASTME-2336.
23. NOT USED.
24. ROUTE DUCT MAIN IN JOIST SPACE.
25. CONNECT 48x24 GRILLE TO 28x12 OR 28x18 DUCT.
26. COORDINATE DUCT PENETRATION WITH STRUCTURE.
27. NOT USED.
28. VESTIBULE ELECTRIC HEATER SHOWN ON ELECTRICAL DRAWINGS.
29. NOT USED.
30. NOT USED.
31. CONNECT BEER TOWER RISERS TO TUBING CONDUIT.
32. ELECTRIC DUCT HEATER. PROVIDE DUCT TRANSITIONS AS REQUIRED. REFER TO SCHEDULE ON SHEET M103.
33. SMOKE DETECTOR (RTU-1,RTU-2,RTU-3): PROVIDE SMOKE DETECTOR IN ROOFTOP UNIT RETURN AIR DUCT. INTERLOCK ROOFTOP UNIT WITH THE DETECTOR. ROOFTOP UNIT SHALL DEACTIVATE ON DETECTION OF SMOKE. PROVIDE AN AUDIBLE ALARM DEVICE AND KEYED TESTING STATION IN MONITORED AREA PER LOCAL CODE. TIE THE SMOKE DETECTOR INTO THE FIRE ALARM SYSTEM AS REQUIRED. SEE ELECTRICAL DRAWINGS FOR LOCATIONS.
34. PROVIDE CO2 SENSOR/MONITOR. MOUNT 12" AFF, AND WITHIN 15'-0" OF THE CO2 TANKS. SENSOR SHALL BE A LOGICO2 MK10 ALL IN ONE SENSOR, OR LOGICO2 MK-9 IF CENTRAL SYSTEM IS REQUIRED.
35. PROVIDE CO2 REMOTE ALARM AND STROBE IN MANAGER'S OFFICE. WIRE CO2 SENSORS LOCATED IN UTILITY ROOM AND BEER COOLER TO OFFICE ALARM AND STROBE.
36. PROVIDE CO2 SENSOR/MONITOR. MOUNT 12" AFF, AND WITHIN AN ACCESSIBLE LOCATION. SHALL BE A LOGICO2 MK10 ALL IN ONE SENSOR, OR LOGICO2 MK-9 IF CENTRAL SYSTEM IS REQUIRED.
37. NOT USED.



N

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

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DIRECTION OF FLOW		LINED DUCTWORK
T	THERMOSTAT		RECTANGULAR ELBOW WITH TURNING VANES
H	TEMPERATURE SENSOR		ROUND FLEXIBLE DUCT CONNECTION
H	HUMIDITY SENSOR		90 DEGREE ELBOW DOWN
	BALL VALVE		90 DEGREE ELBOW UP
	CHECK VALVE		FLEXIBLE DUCT CONNECTION
	STRAINER		SUPPLY AIR DEVICE
	UNION		DUCT SIZE TRANSITION
	REGULATOR	CHWS	CHILLED WATER SUPPLY
	PRESSURE GAUGE	CHWR	CHILLED WATER RETURN
	THERMOMETER	CWS	CONDENSER WATER SUPPLY
E.A.	EXHAUST AIR	CWR	CONDENSER WATER RETURN
F.D.	FIRE DAMPER	HWS	HOT WATER SUPPLY
H.O.A.	HAND - OFF - AUTOMATIC	HWR	HOT WATER RETURN
N.C.	NORMALLY CLOSED	RS	REFRIGERANT SUCTION
N.O.	NORMALLY OPEN	RL	REFRIGERANT LIQUID
M.A.	MIXED AIR	FOT	FUEL OIL TANK
O.A.	OUTSIDE AIR		CONDENSATE DRAIN (PITCHED)
REL. A.	RELIEF AIR		BACKDRAFT DAMPER
R.A.	RETURN AIR		POINT OF CONNECTION
SD	DUCT OR UNIT MOUNTED SMOKE DETECTOR	R	SMOKE DETECTOR REMOTE RESET SWITCH
	MANUAL BALANCING DAMPER	CO2	CO2 DETECTOR
M	MOTORIZED DAMPER		NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
	CEILING RETURN AIR DEVICE		
	SUPPLY DUCT RISER		

CERTIFICATION

PRANGER GROUP INC.
PROJECT MANAGER

PROJECT NUMBER
5748

BUFFALO WILD WINGS
BIRMINGHAM
1416 4th AVENUE SOUTH,
BIRMINGHAM, AL 35233

BUFFALO WILD WINGS

DRAWING ISSUE

NO	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		

Drawing Title
MECHANICAL FLOOR PLAN

M101