

MECHANICAL SYMBOLS LIST			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCTWORK		MANUAL VOLUME DAMPER
	RETURN DUCTWORK		FIRE DAMPER
	EXHAUST DUCTWORK		MOTOR OPERATED DAMPER
	SUPPLY DIFFUSER		FRESH AIR INTAKE
	RETURN GRILLE		TURNING VANES IN ELBOW
	EXHAUST GRILLE		SMOKE DETECTOR
	THERMOSTAT		DIFFUSER TYPE
	RISE IN DUCTWORK		DIFFUSER AIR QUANTITY
	DROP IN DUCTWORK		EQUIPMENT TYPE
			EQUIPMENT TAG

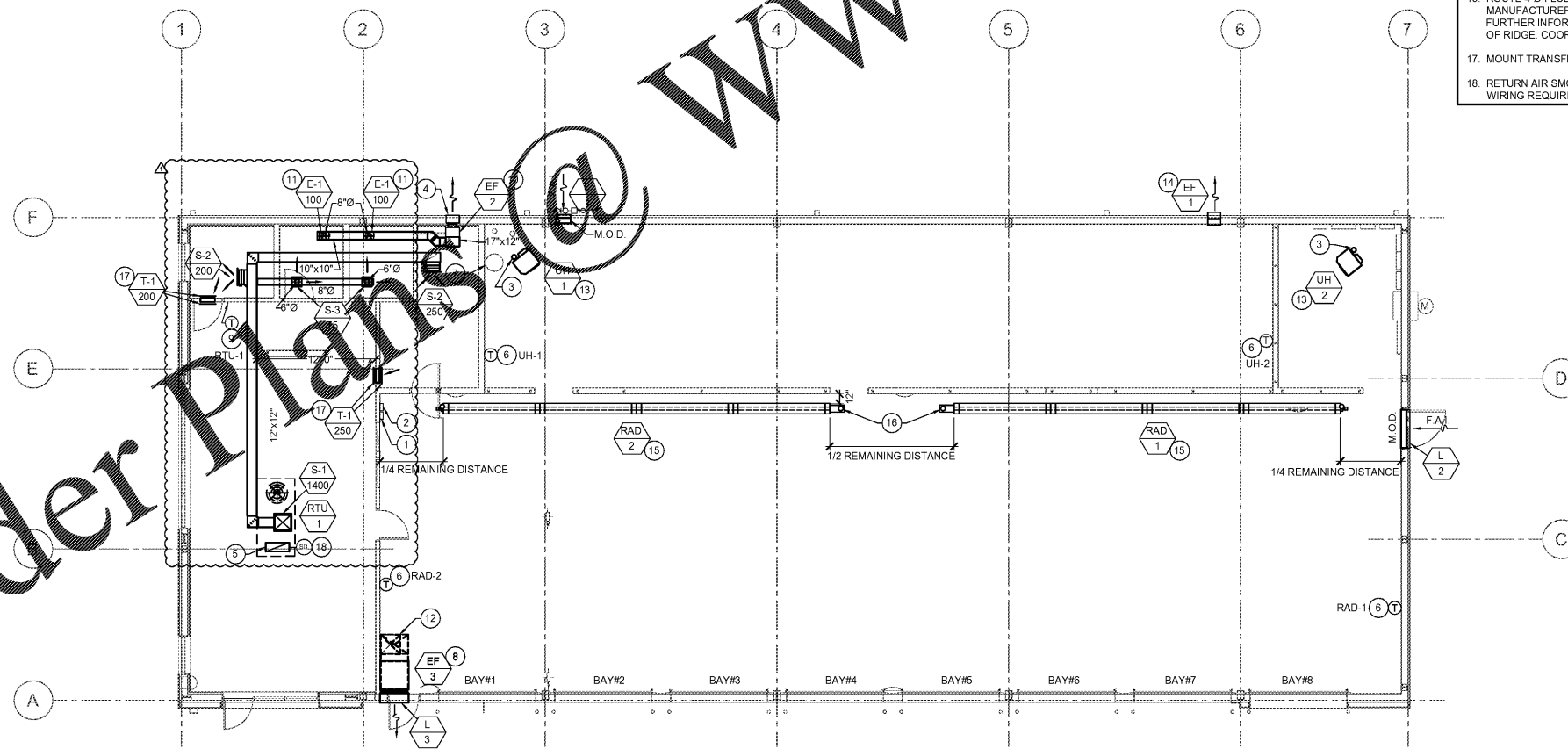
MECHANICAL GENERAL NOTES

- PROVIDE TOXALERT, INC. VENTILATION CONTROL SYSTEM COMPLETE WITH (1) CONTROL UNIT, MODEL (GVU-1) AND (1) CO SENSOR, MODEL (GVU-CO), (RANGE 0 TO 250 PPM). PROVIDE OPTIONAL AUDIBLE ALARM WITH SILENCE SWITCH FOR SECOND STAGE ALARM LEVELS AND LABELED LED INDICATORS ON FACE OF CONTROLLER (POWER ON, FAN ON AND POWER TO SENSOR). REMOTE SENSOR SHALL BE TEMPERATURE AND HUMIDITY COMPENSATED AND COMPLETE WITH LED'S INDICATING NORMAL OPERATION, HIGH CO AND MALFUNCTION. CONTROL UNIT SHALL INCLUDE MEANS TO OPERATE EXHAUST FANS ON A TIME BASIS WITHOUT HIGH CO LEVELS.
- VERIFY DIMENSIONS OF UNIT HEATER AND RADIANT HEATER LOCATIONS WITH MANUFACTURER BEFORE INSTALLATION AND COORDINATE WITH LIFT INSTALLER.
- NO GOOSE NECK OR DOWNTURNS ON LOUVERS OR VENT COVERS TO BE USED.
- VENTS, LOUVERS ETC. NOT TO CONFLICT WITH SIGN LOCATIONS. COORDINATE ALL PENETRATIONS WITH ARCHITECTURAL ELEVATIONS, SIGNAGE DRAWINGS AND GENERAL CONTRACTOR PRIOR TO ROUGH IN.
- COORDINATE ALL VENT AND EXHAUST FAN PENETRATIONS THRU THE ROOF, WALLS AND FLOORS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- REFER TO FIXTURE PLAN SHEET FOR FINAL LOCATIONS AND QUANTITIES OF ALL OPERATIONS EQUIPMENT.
- ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL SHEET METAL AND SHALL BE FABRICATED ACCORDING TO THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD OF METAL AND FLEXIBLE DUCTWORK. UNDER NO CIRCUMSTANCE SHALL DUCT BOARD BE ALLOWED.
- ALL DUCTWORK DIMENSIONS SHOWN ON PLANS ARE CLEAR DIMENSIONS. WHERE INTERNAL DUCT LINER IS REQUIRED BY SPECIFICATIONS, CONTRACTOR SHALL ADJUST DUCTWORK SIZES ACCORDINGLY.
- ALL INSULATION, JOINING MATERIALS, SEALER, ETC. SHALL HAVE A U.L. FLAME SPREAD CLASSIFICATION OF NO MORE THAN 25 AND A SMOKE DEVELOPMENT RATING NOT MORE THAN 50.
- ALL EXPOSED DUCTWORK SHALL BE INTERNALLY FINISHED. REFER TO SPECIFICATIONS FOR DUCT LINER SPECIFIC REQUIREMENTS.
- SERVICE BAYS SHALL HAVE OWNERS APPROVED CRUSHED ROOF TUBING CAP EXHAUST SOURCE CAPTURE SYSTEM. SYSTEM SHALL EXHAUST THROUGH ROOF WITH ALL REQUIRED FITTINGS AND ADAPTORS.

KEYED PLAN NOTES - THIS SHEET

- TOXALERT CONTROLLER. SEE MECHANICAL GENERAL NOTES FOR FURTHER INFORMATION.
- TOXALERT CO SENSOR. MOUNT AT 6'-0" A.F.F. SET SENSOR AT 50 ppm. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
- CONCENTRIC FLUE UP THRU ROOF. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL ON SHEET M2 FOR FURTHER INFORMATION.
- MANUFACTURER SUPPLIED RESTROOM EXHAUST FAN LOUVERED BRICK VENT. COORDINATE LOCATION AND SIZE OF BRICK VENT WITH FLOOR PLAN, BUILDING STRUCTURE AND GENERAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION. VENT SHALL BE PRIMED FOR FIELD PAINTING.
- ROUTE FULL SIZE RETURN AIR DUCT 6" BELOW DECK, END OF DUCT AND COVER WITH 1/2"x1/2" GALVANIZED HARDWARE CLOTH.
- THERMOSTAT SUPPLIED BY MANUFACTURER FOR EACH SERVICE BAY. THERMOSTAT TO BE INSTALLED ON AN INSULATED SUBBASE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL ON SHEET M2. THE HIGHEST OPERABLE CONTROL IS NOT MORE THAN 48" AFF. COORDINATE MOUNTING LOCATION SO THERMOSTAT IS NOT LOCATED BEHIND SERVICE EQUIPMENT.
- ROUTE WATER HEATER FLUE AND MAKE TIGHT TO WALL. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT KIT. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND PROVIDE REQUIRED CLEARANCES FROM WALL AND ROOF.
- COORDINATE MOUNTING LOCATION AND LOCATION OF INLINE SERVICE BAY EXHAUST FAN WITH FLOOR PLAN LOCATION SHOWN ON ELEVATIONS. FAN SHALL BE MOUNTED AS HIGH AS POSSIBLE. FAN SHALL BE SUSPENDED FROM STRUCTURE ABOVE. FAN SHALL NOT BE SUPPORTED BY ADJACENT SHOWROOM WALL. COORDINATE WITH ALL DISCIPLINES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL FURNISH HONEYWELL T7300 THERMOSTAT (OR EQUAL) WITH INSTALLED SUBBASE. THERMOSTAT TO BE 7 DAY PROGRAMMABLE WITH 4 SETBACK PERIODS PER DAY. THERMOSTAT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MOUNT THERMOSTAT SO THAT THE HIGHEST OPERABLE CONTROL IS NOT MORE THAN 48" AFF.
- MOUNT RESTROOM EXHAUST FAN TO STRUCTURE AS HIGH AS POSSIBLE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TRANSITION EXHAUST DUCT AS REQUIRED FROM FAN TO LOUVERED BRICK VENT ON EXTERIOR WALL.
- ROUTE RESTROOM EXHAUST DUCT TIGHT TO WALL. TAP DUCT FROM EACH RESTROOM TO MAIN EXHAUST DUCT ABOVE.
- DROP 24"x24" EXHAUST DUCT DOWN IN LOCATION SHOWN. MOUNT DUCTWORK TO UNISTRUT LADDER AND TRANSITION AS REQUIRED TO FAN. DO NOT SUPPORT DUCTWORK FROM WALL. TERMINATE AT 3' A.F.F. REFER TO DETAIL ON SHEET M2 FOR FURTHER INFORMATION.
- MOUNT GAS FIRED UNIT HEATER TO STRUCTURE AS HIGH AS POSSIBLE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON SHEET M2 FOR ADDITIONAL INFORMATION.
- MOUNT EXHAUST FAN ABOVE INVENTORY TIRE RACKING. COORDINATE WITH ARCHITECT AND ARCHITECTURAL PLANS FOR EXACT MOUNTING LOCATION.
- MOUNT GAS FIRED RADIANT HEATER TO STRUCTURE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON SHEET M2 AND SERVICE BAY SECTION ON ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.
- ROUTE #19 FLUE SEPARATELY THRU ROOF FOR EACH RADIANT HEATER. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL ON SHEET M2 FOR FURTHER INFORMATION. ROUTE FLUE AS REQUIRED TO PENETRATE ROOF ON BACKSIDE OF RIDGE. COORDINATE WITH ARCHITECTURAL ROOF PLAN.
- MOUNT TRANSFER GRILLE AT 12'-0" AFF MINIMUM.
- RETURN AIR SMOKE DETECTOR. CONTRACTOR SHALL COORDINATE INSTALLATION AND WIRING REQUIREMENTS WITH FIRE ALARM DRAWINGS AND SPECIFICATIONS.

NOTE:
CONTRACTOR SHALL REFER TO SHEET A3-
ROOF PLAN FOR ACCEPTABLE APPROXIMATE
LOCATIONS OF ROOF PENETRATIONS.

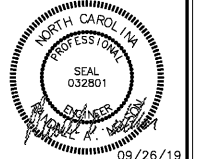


1 MECHANICAL PLAN
M1 SCALE: 1/8" = 1'-0"



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NEW FCAC STORE
2019 JANUARY - SMALL ER
5845 NC HWY 42
GARNER, NC



ACERTUS NORTH CAROLINA
CERTIFICATION NUMBER - P1514

ISSUE BLOCK
09/27/19 ADDENDUM #1

PROPERTY NO.: 160017
6 DIGIT NO.: 903065
4 DIGIT NO.: 015P
AOR PROJECT NUMBER: 1955801
TO PERMIT: DATE: 07-28-19
TO BID: DATE: ##-##-##

SHEET TITLE:
MECHANICAL PLAN
AND NOTES

SHEET NUMBER:
M1