



SEQUENCE OF OPERATION:

1. THE SYSTEM'S GAS SOLENOID VALVE SHALL CLOSE UPON THE FOLLOWING:
 - A. SYSTEM TURNED OFF WITH AUTHORITY KEY.
 - C. WHEN CARBON MONOXIDE IS DETECTED.
2. UNDER NORMAL OPERATION CONDITION, KITCHEN EXHAUST FAN IS ON HIGH SPEED, GAS CONTROL PANEL IS POWERED, GAS SOLENOID VALVE CAN BE MANUALLY OPENED VIA AUTHORITY KEY SWITCH.
3. UPON DETECTION OF HIGH CONCENTRATIONS OF CARBON MONOXIDE THE SYSTEM SHALL GO INTO ALARM, CLOSING GAS SOLENOID AND GENERATING A TROUBLE SIGNAL THAT CAN BE TIED INTO BAS / FIRE ALARM SYSTEMS.
4. UPON LOSS OF POWER, GAS SOLENOID SHALL CLOSE. MANUAL RESET OF SYSTEM IS REQUIRED TO OPEN GAS SOLENOID VALVE.
5. UPON SENSOR FAILURE OR FAULT, SYSTEM SHALL GO INTO ALARM AND CLOSE GAS SOLENOID VALVE.

NOTES:

1. INSTALLATION OF SYSTEM MUST CONFORM TO NATIONAL AND LOCAL APPLICABLE CODES AND REQUIREMENTS.
2. BASIS OF DESIGN AMERICAN GAS SAFETY (AGS) MERLIN CT1500S INTERLOCK SYSTEM. INCORPORATING CO DETECTORS THAT INTERLOCK WITH THE GAS SOLENOID VALVE THROUGH THE CT1500S PANEL. ALL REQUIRED COMPONENTS AND WIRING DIAGRAMS TO BE OBTAINED FROM MANUFACTURER.
3. SYSTEM SHALL BE THE ULTIMATE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. GAS SOLENOID, MERLIN CONTROL PANEL, DETECTORS, DIFFERENTIAL SWITCHES, EMERGENCY STOP BUTTONS SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR. LIAISE WITH ELECTRICAL CONTRACTOR AND KITCHEN CONTRACTOR FOR LOCATION AND POSITION OF EQUIPMENT. ELECTRICAL CONTRACTOR TO INSTALL WIRING AND CONDUIT.
4. 120VAC LINE VOLTAGE TO MERLIN PANEL AND GAS SOLENOID. 12VDC FROM MERLIN PANEL TO DETECTORS / SENSORS. SIGNAL WIRE FROM DETECTORS AND DIFFERENTIAL SWITCHES TO MERLIN PANEL. VOLT FREE CIRCUIT TO REMOTE EMERGENCY STOP BUTTON.
5. PROVIDE CAUTION SIGN OVER GAS VALVE CONTROL PANEL TO WARN OPERATORS OF THE PROPER SEQUENCE TO RESET THE SYSTEM IN THE EVENT OF AN ALARM CONDITION OR PANEL PANEL SYSTEM SHUTDOWN. SIGN TO READ
 "CAUTION
 BEFORE MANUALLY RESETTING THIS GAS SAFETY PANEL
 ENSURE ALL GAS BURNERS ARE TURNED
 OFF
 AFTER RE-SET LIGHT ALL PILOTS
 IMMEDIATELY"

9"x6" WITH 3/8" LETTERS (FIRST LINE 1" LETTERS)

1 **DETAIL - NATURAL GAS / CO KITCHEN INTERLOCK**
 N.T.S.