

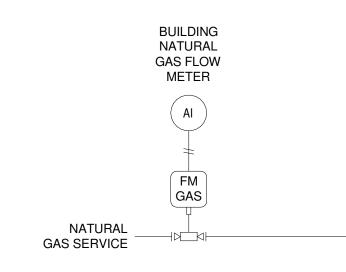
DIAGRAM GENERAL NOTE:

POWER SHALL BE MONITORED VIA INTERROGATION OF CAMPUS NETWORK.

THE METER WILL BE TIED INTO THE NEW BACNET/MSTP BUILDING AUTOMATION SYSTEM. METER WILL BE PROVIDED BY ELECTRICAL CONTRACTOR. COMMUNICATION CABLING WILL BE PROVIDED BY ATC CONTRACTOR. REFER TO DRAWINGS FOR LOCATION OF THE METER. DIVISION 230900 WILL INTEGRATE TO THE METER.

THE NEW BACNET NETWORK SHALL OBTAIN ALL AVAILABLE POINTS FROM THE GEAR. THE NEW BACNET NETWORK SHALL LOG AND DISPLAY INSTANTANEOUS VOLTAGE, CURRENT, POWER (KW), USAGE (KWH), AND POWER FACTOR. THE NEW BACNET NETWORK SHALL DISPLAY INSTANTANEOUS, HOURLY, DAILY, MONTHLY, YEARLY VALUES, AND ALARMS ON THE NEW BACNET NETWORK GRAPHIC.

ELECTRICAL MONITORING CONTROL DIAGRAM



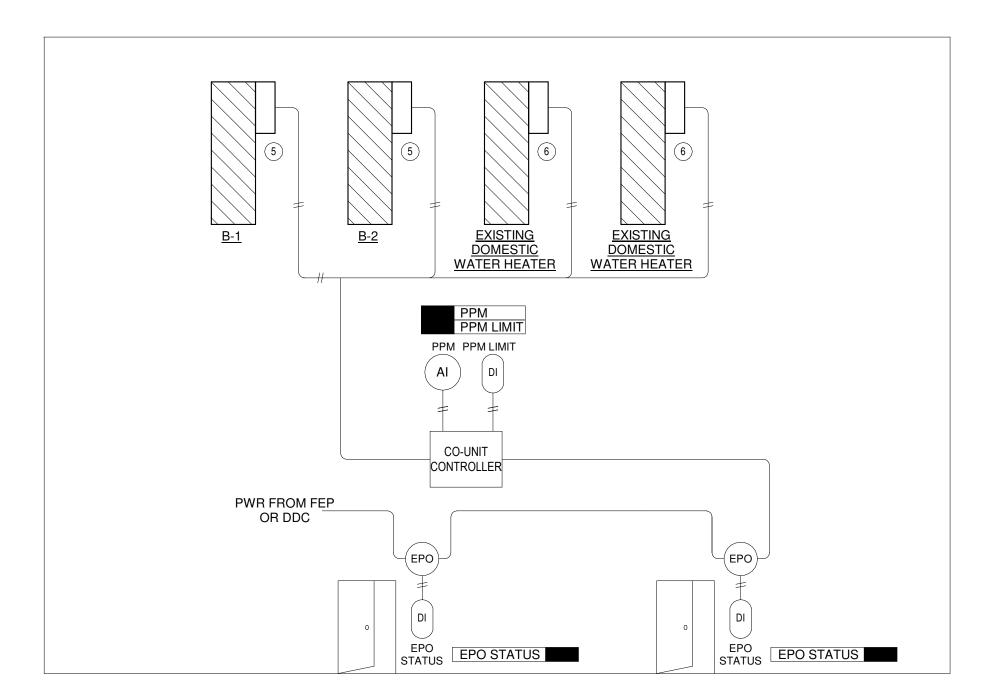
	NATURAL GAS MET	ERING ALARMS	
#	DESCRIPTION	ON GRAPHIC	IN TABL
1	HIGH USAGE	NO	NO
2	HIGH FLOW RATE	NO	NO

THE EMS SHALL MONITOR THE NATURAL GAS FOR INSTANTANEOUS FLOW RATE AND USAGE. THE EMS TO PROVIDE INSTANTANEOUS USE, HOURLY, DAILY, MONTHLY, YEARLY USAGE AND PROVIDE COMPARATIVE DATA FROM PREVIOUS HOUR, DAY, MONTH, AND YEARS ON A DASH BOARD GRAPHIC IN THE EMS. * PROVIDE PULSE COUNTER ON EXISTING, UCA OWNED GAS METER.

DIAGRAM GENERAL NOTES:

1. EXISTING GAS METER TO HAVE PULSE COUNTER PROVIDED AND WIRED BY ATC CONTRACTOR AND INSTALLED BY DIVISION 22 CONTRACTOR.

2 NATURAL GAS METERING CONTROL DIAGRAM
NOT TO SCALE



EMERGENCY BOILER SHUT-OFF SEQUENCE OF OPERATION:

1. UPON EMERGENCY STATUS INDICATED BY CO SWITCH OR EMERGENCY OFF SWITCH, ALL BOILERS SHALL BE DISABLED BY A BUILT-IN SAFETY INTERLOCK (IF AVAILABLE) OR THROUGH A RELAY INSTALLED IN THE THE BOILER CONTROLLER POWER CIRCUIT.

ALARM MONITORING:
AN ALARM SHALL BE GENERATED AT THE EMS IF ANY OF THE FOLLOWING OCCUR: 1. CO SWITCH IS TRIGGERED. 2. BOILER EMERGENCY POWER OFF SWITCH IS TRIGGERED.

LOSS OF OPERATING BOILER).

3. REMOTE ALARM CIRCUIT ACTIVE (LOW WATER, OVER PRESSURE, OR

DIAGRAM GENERAL AND KEYED NOTES:

- CARBON MONOXIDE DETECTOR LOCATED IN BOILER ROOM. CARBON MONOXIDE DETECTOR CONTROLLER, SENSOR, POWER SUPPLY, AND CONTROL WIRING PROVIDED AND INSTALLED BY DIVISION
- 3. EPO SWITCHES LOCATED BY BOILER ROOM DOORS. 4. CARBON MONOXIDE LIMIT TO BE SET FOR 50 PPM UNLESS DICTATED OTHERWISE BY AHJ OR LOCAL ORDINANCES.
- PROVIDED TO INTERRUPT ENABLE SIGNAL OR MAY PROVIDE CONTACTS FOR SAFETY OFF. 6. CONNECT SAFETY CIRCUIT TO EXISTING DOMESTIC WATER HEATERS. FIELD VERIFY EXACT NUMBER OF DOMESTIC WATER HEATERS. EACH

5. COORDINATE BOILER SAFETY INTERLOCK WIRING WITH INDIVIDUAL

BOILER MANUFACTURER. MANUFACTURER MAY REQUIRE RELAY TO BE

EXISTING WATER HEATER TO HAVE ITS OWN SAFETY CIRCUIT CONNECTION.

BOILER EMERGENCY POWER-OFF CONTROL DIAGRAM
NOT TO SCALE



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UCA Housing Renovations - Phase 2 State Hall

University of Central Arkansas Conway, Arkansas

SMA Project Number 05-10-2019 UCA Project Number UCA-19-021

CONTROLS - HVAC

M6.7