NOTES:
1. INSTALL THE BTU METER FLOW ELEMENT WITH A MINIMUM OF TEN (10) STRAIGHT PIPE DIAMETERS UPSTREAM AND FIVE (5)
PIPE DIAMETERS DOWNSTREAM. BTU METER HAS ITS OWN SUPPLY & RETURN TEMP SENSORS THAT MUST BE INSTALLED
SEPARATELY.
2. INCLUDE CAPABILITY TO RESET MIXED WATER TEMPERATURE BASED ON DEMAND.
3. BUILDING COILS AND LOADS SHALL BE DESIGNED TO ENSURE THAT CHILLED WATER RETURN TEMPERATURE IS 60°F OR
GREATER AT ALL TIMES.
4. NOTED POINTS ARE TO BE HARDWIRED DIRECTLY TO THE UTILITY INTERFACE PANEL. THE DATA CAN BE SHARED AS NEEDED
VIA NETWORK CONNECTION TO THE BUILDING CONTROL SYSTEM. SEE FIG 25 3313 FOR INSTRUMENTATION REQUIREMENTS.
5. THE BUILDING CONTROL SYSTEM WILL RECEIVE A HARDWIRED DIGITAL INPUT SIGNAL FROM THE UTILITY INTERFACE PANEL TO
COMMAND CLOSED THE CONTROL VALVE IN CASE OF A DISTRIBUTION SYSTEM EMERGENCY.
6. POINTS TO BE SHARED VIA LON OR BACNET CONNECTION FROM THE BUILDING CONTROL SYSTEM TO THE UTILITY INTERFACE
PANEL FOR MONITORING PURPOSES INCLUDE MIXED WATER TEMP, CV POSITION, AND PUMP SPEED. CHILLED WATER RETURN
TEMPERATURE DATA TO BE SHARED WITH THE BUILDING CONTROL SYSTEM FOR MIXED WATER TEMPERATURE SET POINT RESET.
CHILLED WATER RETURN PRESSURE DATA TO BE SHARED WITH THE BUILDING CONTROL SYSTEM FOR DP CONTROL.
7. REFER TO SECTION 25 3313 FOR DETAILS ON EQUIPMENT SPECIFICATIONS.
8. REFER TO SECTION 25 3528 FOR SEQUENCE OF OPERATION.
9. BUILDINGS WITH 2-Pipe HVAC SYSTEMS CAN NOT USE THIS ARRANGEMENT. A CHILLED WATER HEAT EXCHANGE IS NEEDED TO
ISOLATE THE UTILITY WATER FROM THE BUILDING WATER.

STANFORD UNIVERSITY FACILITY OPERATIONS
Drawing Title: UTILITY CHILLED WATER PRIMARY INTERFACE
Scale: NTS Check: Gerry H. Rev. By: OG Rev. Date: 01/19/17

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