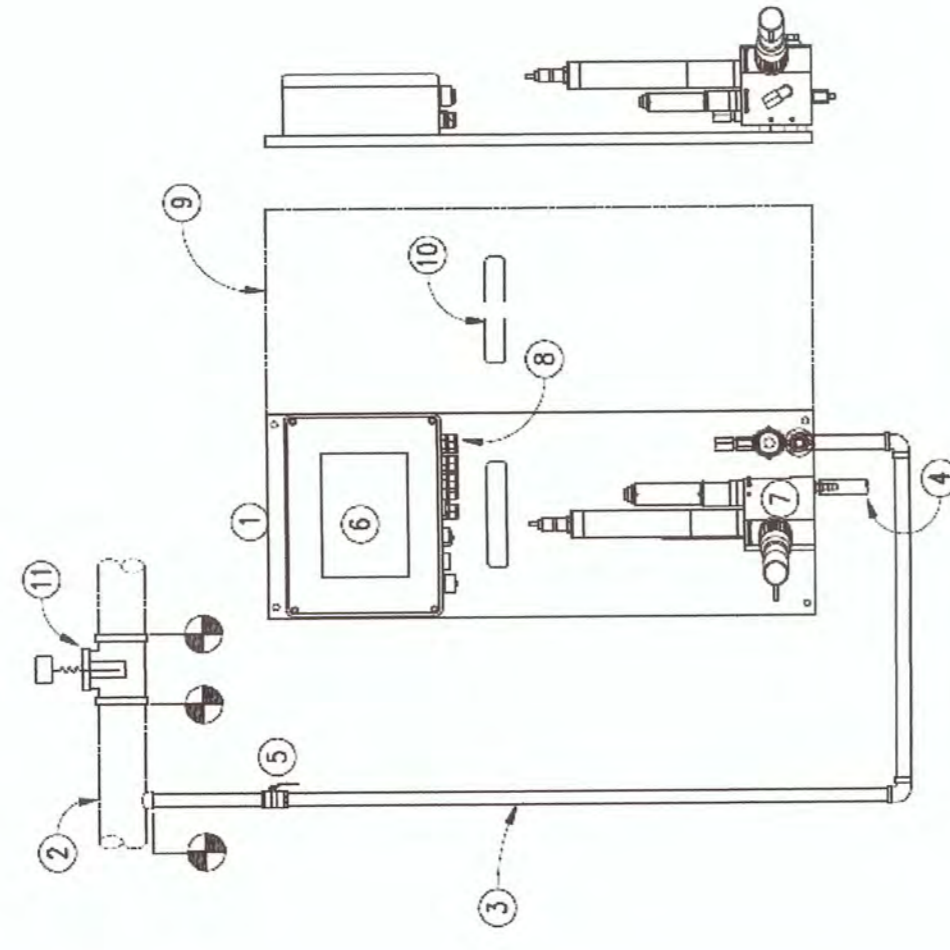


Notes :

1. Basis of design S:CAN
2. Existing domestic water line.
3. 1/2" hard drawn copper tubing. Route neatly from connection to monitor.
4. 1/2" hard drawn copper tubing drain line.
5. Ball valve.
6. Integral touch screen water quality monitor.
7. Flow cell. Provide sensors for PH, Dissolved solids and oxidant residual.
8. Provide remote input for water temperature.
9. Provide second cell connected to one monitor where required. (see schedule)
10. Expansion port.
11. Provide "tee" and thermowell for temperature instrument.



FLOW CELL MONITOR DETAIL
SCALE: NONE

MARK	LOCATION	OWQM STATION SCHEDULE					Notes
		Temperature	pH	Dissolved solids	Oxidant	Residual Pressure	
OWQM-1	Building 10 Pump House (storage tank)	X	X	X	X	X	X
OWQM-2	Building 10 Pump House (incoming)	X	X	X	X	X	X
OWQM-3	Building 1, basement Room BB-103 (incoming cold)	X	X	X	X	X	X
OWQM-4	Building 1, basement Room BB-103 (Supply)	X	X	X	X	X	
OWQM-5	Building 1, basement Room BB-103 (return)	X	X	X	X	X	
OWQM-6	Building 1, basement Room BB-112 (return)	X	X	X	X	X	
OWQM-7	Building 1, basement Room BC-108K	X	X	X	X	X	
OWQM-8	Building 1, basement Room BA-112 (return)	X	X	X	X	X	
OWQM-9	Building 1, basement Room BC-111	X	X	X	X	X	

1. Temperature measurement for hot water shall be taken with a pipe mounted immersion sensor. Output shall be routed to OWQM as a remote input.
2. Pressure measurements shall be taken with a pipe mounted pressure sensor. Output shall be routed to OWQM as a remote input.
3. Measurement data should be flagged as non potable water.
4. provide OWQM with two flow cells and one controller.
5. Provide with integral wireless communication technology to existing network.

GENERAL Notes :

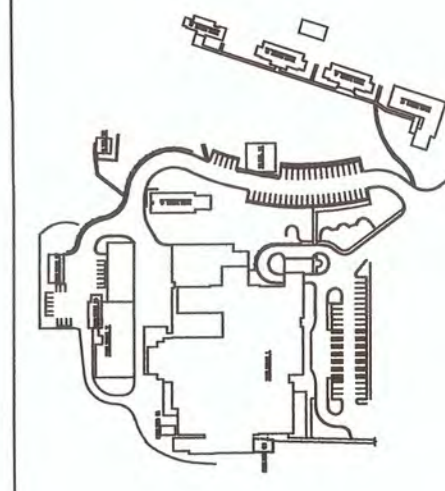
- A. The scope of this project is to provide continuous water monitoring throughout the VA Medical center in Beckley, WV. The contractor shall provide all materials and labor needed. All OWQM shall report to a central control through a wireless network. The OWQM located at the facility point of entry shall report to the system through the use of wireless to network communications.
- B. All data shall be received at a central server and shall be processed through IWSA that provides data analytics to identify water quality anomalies. The information developed from the data shall be displayed on a geographic dashboard with trending and alarm capabilities. Reporting capabilities shall be included in the system. IWSA server shall be located in the IRM server room which is located in building 1, basement floor.
- C. Control cabling exposed in mechanical rooms and in finished spaces shall be in conduit. Plenum rated cables may be used above ceilings.
- D. Provide trending for all points

LEGEND:

- NEW WORK/EQUIPMENT
- EXISTING EQUIPMENT
- POINT OF CONNECTION

ABBREVIATIONS:

- OWQM - Online water quality monitor
- IWSA - Intelligent water solutions architecture



APPROVED: SAFETY MANAGER
JUSTIN GREENE
APPROVED: INFECTION CONTROL
APPROVED:

APPROVED: CHIEF, FACILITIES MANAGEMENT SERVICE LINE
JOHN MONTGOMERY
APPROVED: ASSOCIATE DIRECTOR for PATIENT CARE SERVICES/EXECUTIVE NURSE
DEBRA LEGG, RN, MSN
APPROVED: SERVICE LINE CHIEF

APPROVED: MEDICAL CENTER DIRECTOR
STACY J VASQUES
APPROVED: ASSOCIATE DIRECTOR
JOHN D. STOUT
APPROVED: CHIEF OF STAFF

DRAWING TITLE:
Install continuous water monitoring system
PROJECT TITLE:
Correct Water System for Legionella Phase 2
DATE
9/18/2017
REV.
SCALE
NTS
DRAWING No.
M-100
PROJECT No.
517-17-101
DRAWN BY:
JPP
CHECKED BY:
KB, JH

NOT TO SCALE

PUTTING VETERANS FIRST
Medical Center
200 Veterans Av
Beckley, WV. 25801