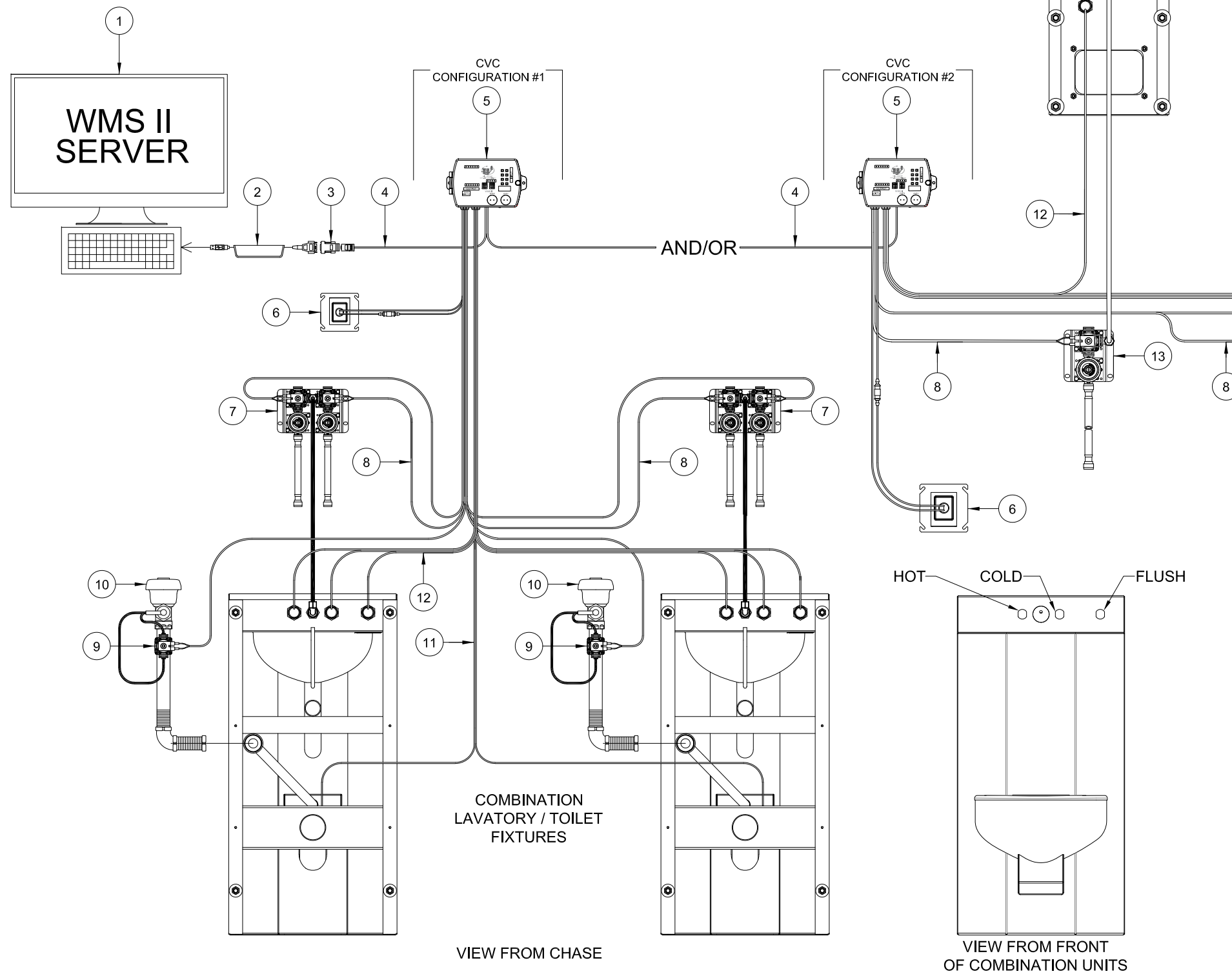


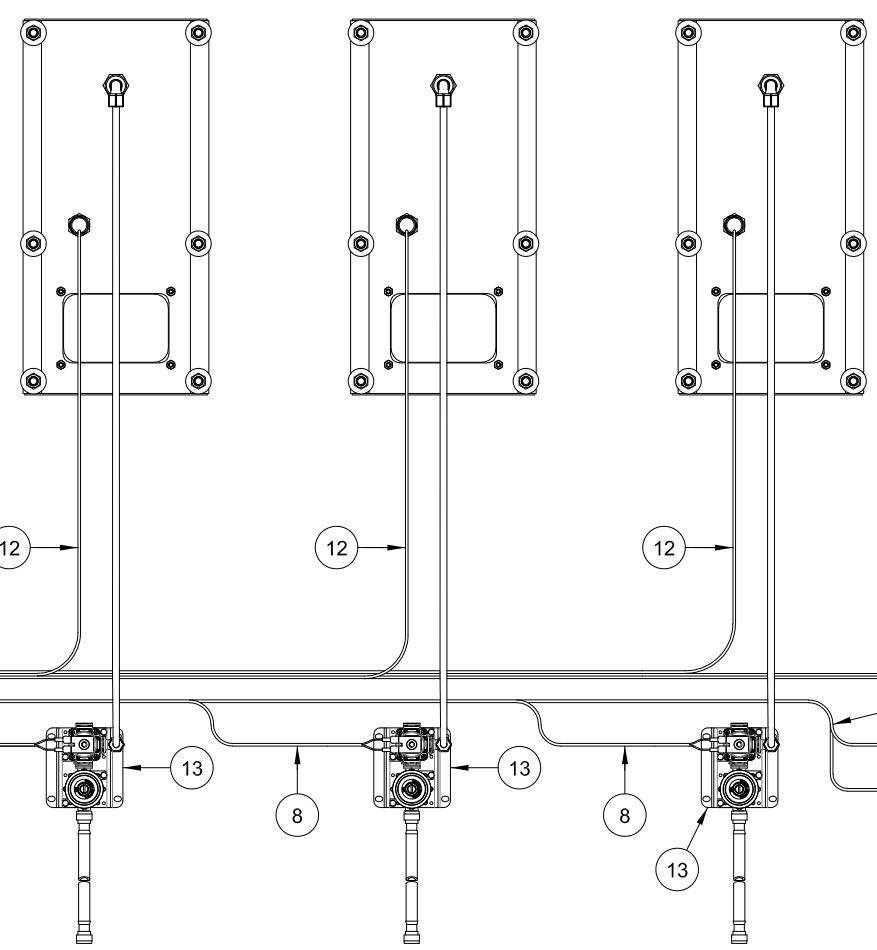


WILLOUGHBY

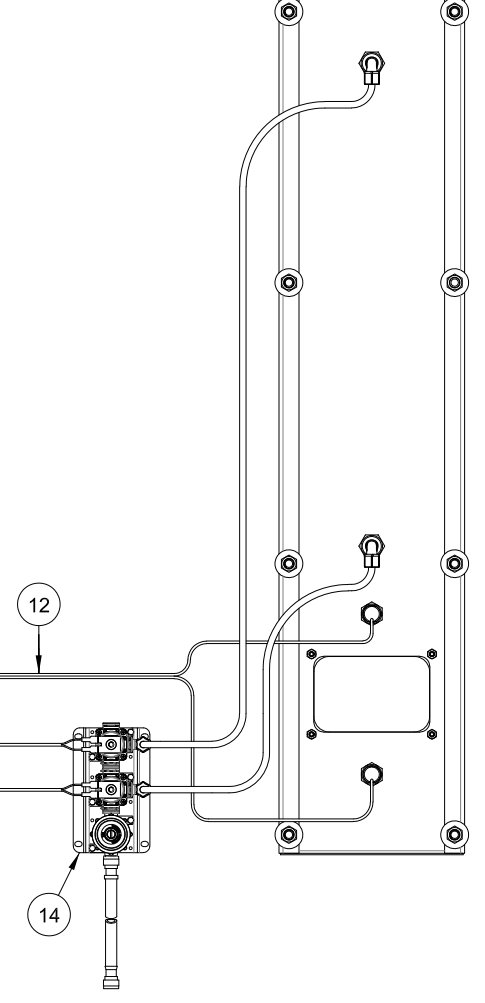
TYPICAL WILLOUGHBY WMSII WATER MANAGEMENT SYSTEM INSTALLATION DETAILS SHOWN. INSTALLATION AND CVC CONFIGURATION MAY VARY PER SCOPE OF SPECIFIED PROJECT. TYPICAL INSTALL DETAILS ARE FOR REFERENCE ONLY. CONSULT SPECIFIED PROJECT PLANS & SUBMITTALS FOR SPECIFIC JOB DETAILS.



SINGLE TEMPERATURE SHOWERS

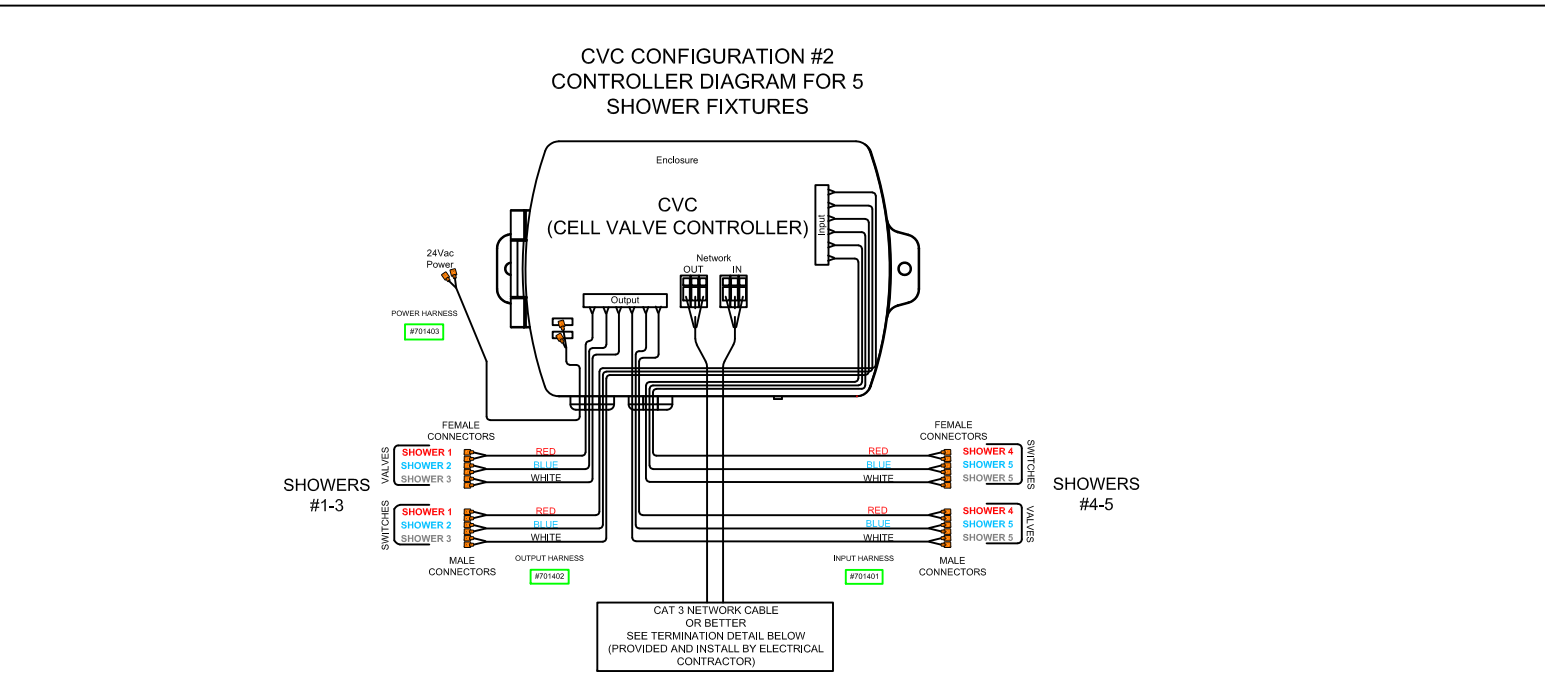
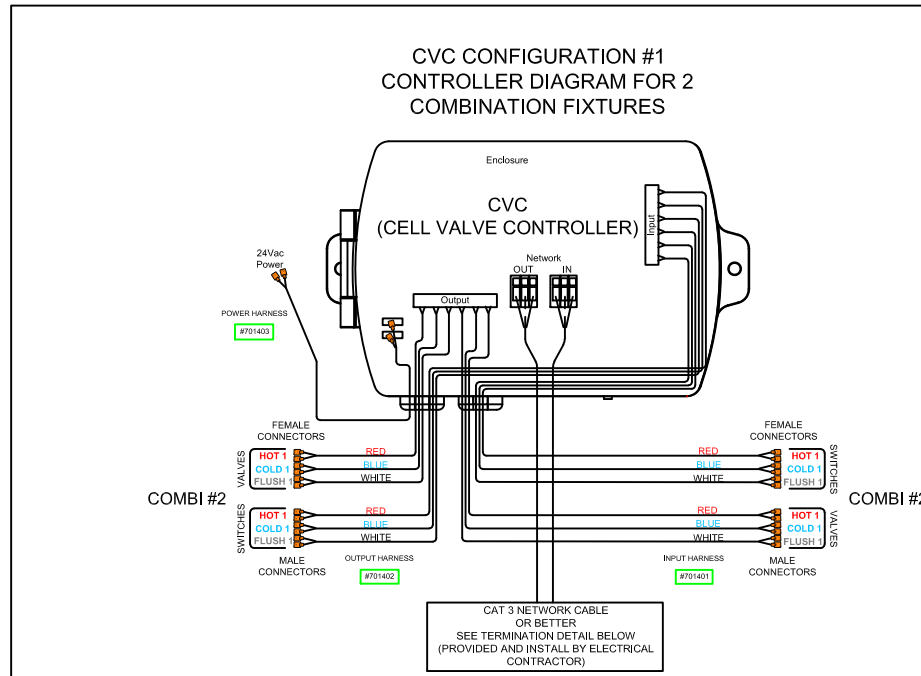


SINGLE TEMPERATURE HANDICAP SHOWER



1. WMS II SERVER/MONITOR
 2. USB-TO-CAN INTERFACE
 3. NETWORK ADAPTER ASSEMBLY
 4. NETWORK CABLE
 5. CVC (CELL VALVE CONTROLLER)
 6. 24V TRANSFORMER
 7. DUAL TEMPERATURE ELECTRONIC LAVATORY VALVE
 8. OUTPUT WIRING
 9. ELECTRONIC FLUSH VALVE ACTUATOR
 10. BRASS BODIED HYDRAULIC FLUSH VALVE**
 11. TOILET OVERFLOW PREVENTION TUBE
 12. INPUT WIRING
 13. SINGLE TEMPERATURE ELECTRONIC SHOWER VALVE
 14. SINGLE TEMPERATURE ELECTRONIC MANIFOLD SHOWER VALVE
- **BRASS BODIED HYDRAULIC FLUSH VALVE REQUIRED OTHER TYPES NOT PERMITTED

SYSTEM CAPABILITIES
EACH WMSII SERVER SHALL BE CAPABLE OF CONTROLLING UP TO 4 NETWORKS, EACH CONSISTING OF A MAXIMUM OF 127 CVC'S AND UP TO 3000 FEET OF NETWORK WIRING. TWISTED 3-PAIR OF CAT 3 RATING SHALL BE USED FOR ALL NETWORK WIRING (PROVIDED AND INSTALLED BY OTHERS). STAND-ALONE CVC'S NOT CONNECTED TO A NETWORK SHALL BE PROGRAMMED VIA AN OPTIONAL PORTABLE DEVICE OR PROGRAMMED AT THE FACTORY. STANDARD WIRING FOR PUSHBUTTONS TO CVC SHALL NOT EXCEED 200 FEET AND VALVES TO CVC SHALL NOT EXCEED 50 FEET. WIRING FOR CVC POWER SHALL NOT EXCEED 25 FEET.



WILLOUGHBY WMSII INSTALLATION DETAIL
NOT TO SCALE

WILLOUGHBY WMSII INPUT/OUTPUT WIRE CONNECTIONS
NOT TO SCALE

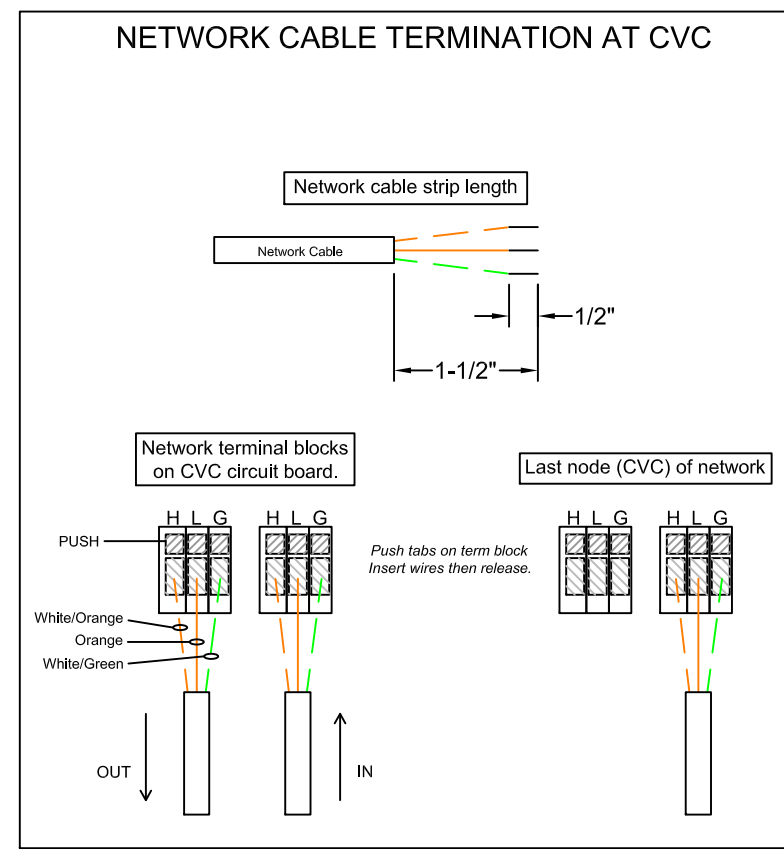
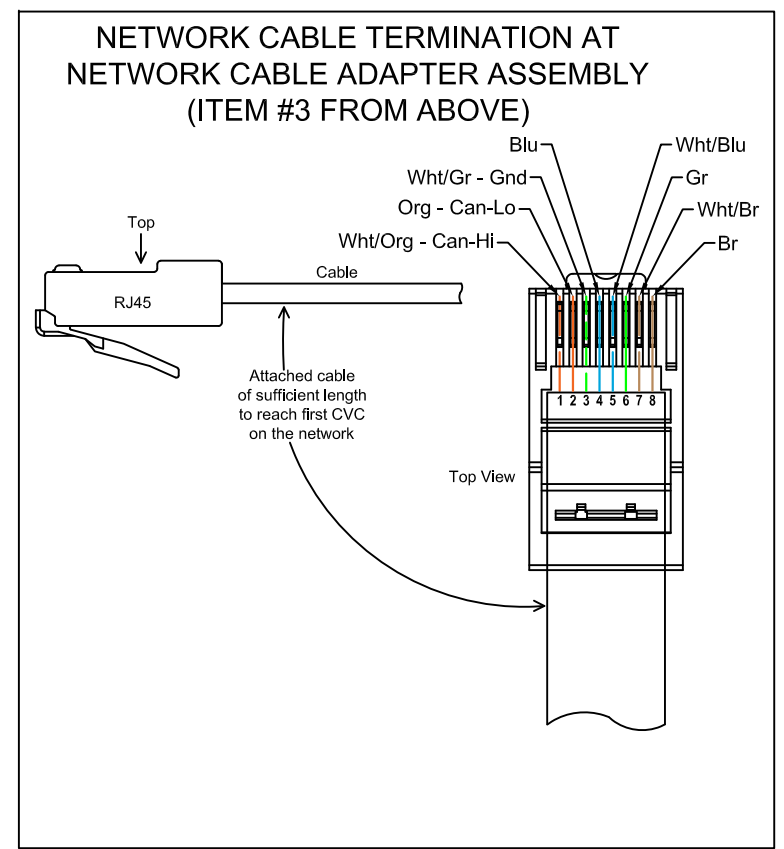
SCOPE OF WORK (RECOMMENDED)
ELECTRICAL CONTRACTOR

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CAT 3 CAN BUS NETWORK COMMUNICATION WIRING FROM OPERATING WORKSTATION TO CVC (CELL VALVE CONTROLLER). IF LOCAL CODE REQUIRES CONDUIT, CONDUIT IS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE & CONNECT POWER TO CHASE MOUNTED TRANSFORMER. TRANSFORMER PROVIDED BY PLUMBING CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE & CONNECT MALE RJ45 CONNECTOR TO NETWORK COMMUNICATION WIRING AT WMSII SERVER. AS SHOWN IN NETWORK TERMINATION DETAIL.

NOTE: RECOMMENDED THAT CVC TRANSFORMER BE CONNECTED TO EMERGENCY BACK-UP POWER.

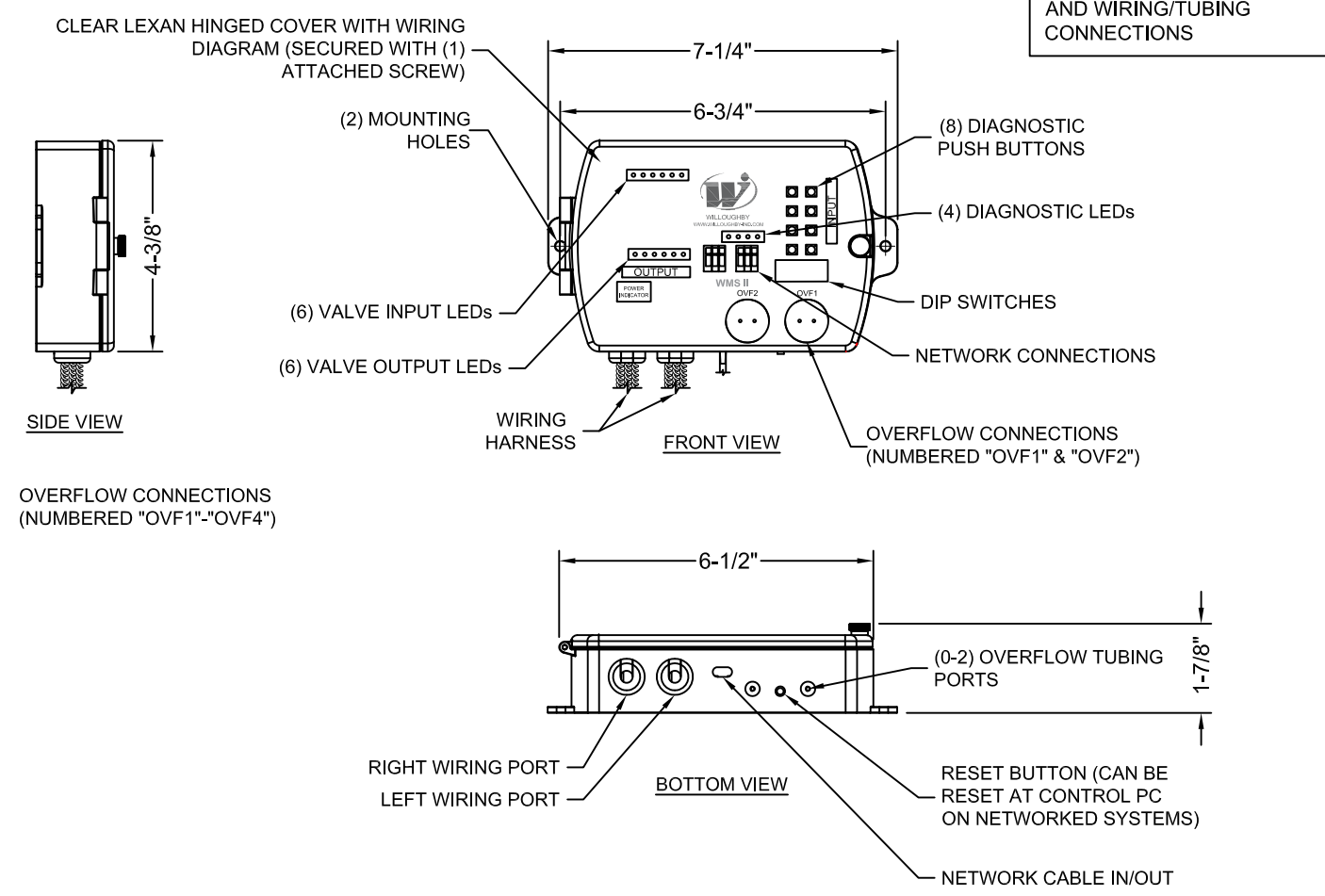
PLUMBING CONTRACTOR

- PLUMBING CONTRACTOR IS TO PROVIDE WILLOUGHBY WMSII ELECTRONIC WATER MANAGEMENT SYSTEM.
- PLUMBING CONTRACTOR TO INSTALL ELECTRONIC PUSHBUTTONS TO WILLOUGHBY PLUMBING FIXTURE, ELECTRONIC WATER VALVES IN CHASE AND MOUNT WILLOUGHBY CVC CELL VALVE CONTROLLER TO CHASE WALL.
- PLUMBING CONTRACTOR TO PROVIDE AND CONNECT WIRING FROM PUSHBUTTONS TO CVC AND FROM CVC BACK TO ELECTRONIC LAVATORY, SHOWER AND FLUSH VALVES.
- PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL WMSII SERVER WITH WILLOUGHBY WMSII SOFTWARE, USB-TO-CAN INTERFACE AND NETWORK ADAPTER.



* NETWORK CABLE AND ANY REQUIRED CONDUIT TO BE INSTALLED AND PROVIDED BY ELECTRICAL CONTRACTOR

WILLOUGHBY WMSII NETWORK CABLE TERMINATIONS
NOT TO SCALE



WILLOUGHBY WMSII CVC PHYSICAL DIMENSIONS AND IDENTIFICATION
NOT TO SCALE

NOTE: ALLOW 6" MIN. CLEARANCE UNDER EACH (CVC) FOR ACCESS TO RESET BUTTON AND WIRING/TUBING CONNECTIONS