

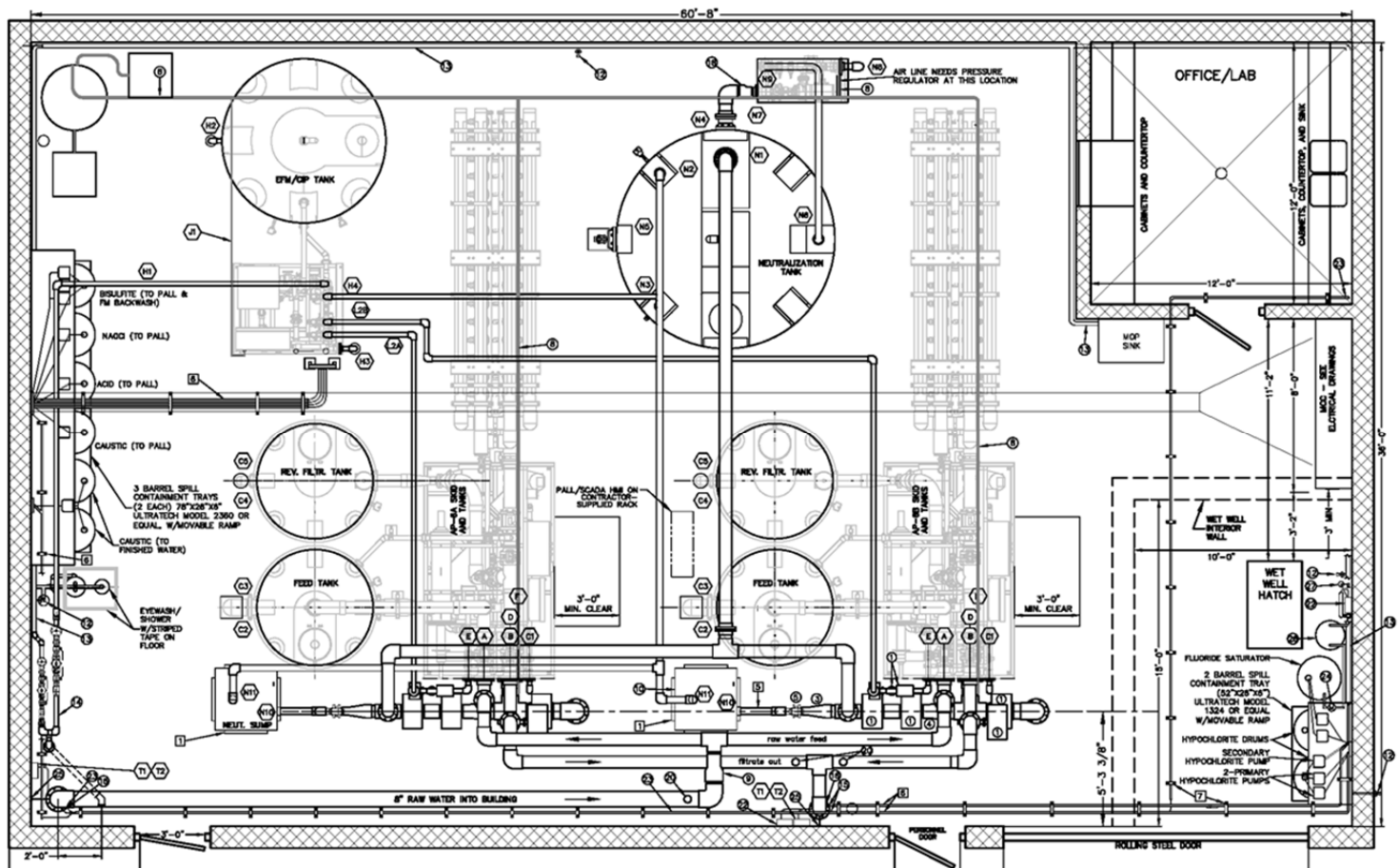


Dickinson Well Membrane Filtration Facility – Buena Vista, VA

- Design of Micro-Filtration Facility to treat 1,200 gpm (1.7 MGD) municipal well and spring
- Preliminary Engineering and Environmental Reports in accordance with USDA Rural Development
- SCADA Functionality
- Permitting
- Bidding
- Construction Phase Services



Floor Plan and Photographic X-Section through the 60'x 36' Dickinson Well Filtration Facility



Continued Below



Dickinson Well Filtration Facility

Dickinson Well is Buena Vista's primary water source, but for years it showed signs of surface water influence. Finally, the Health Department mandated that the water be filtered. The well yields 950 gallons per minute and a nearby spring can provide another 230 gallons per minute. The filtration facility was designed to treat both sources and it was added to the City's SCADA system with Civil Consulting Group preparing the functionality and coordinating with the City's SCADA integrator. The project also included a 115 gallon per minute backwash pump station within the building and a new 230 gallon per minute sanitary sewer pump station beside a manufacturing in the City's nearby industrial park.

The City was seeking USDA funding, therefore the Preliminary Engineering Report and Environmental Report were prepared to their standards. Both reports were approved by USDA, but ultimately they did not fund the project. The City did, however, receive a one million dollar CDBG grant to pay for the filtration equipment. The City raised the remaining 1.5 million dollars by selling bonds.

The equipment package was bid first and then the facility was designed around the selected provider. We then pre-qualified contractors and bid the construction aspects of the project.