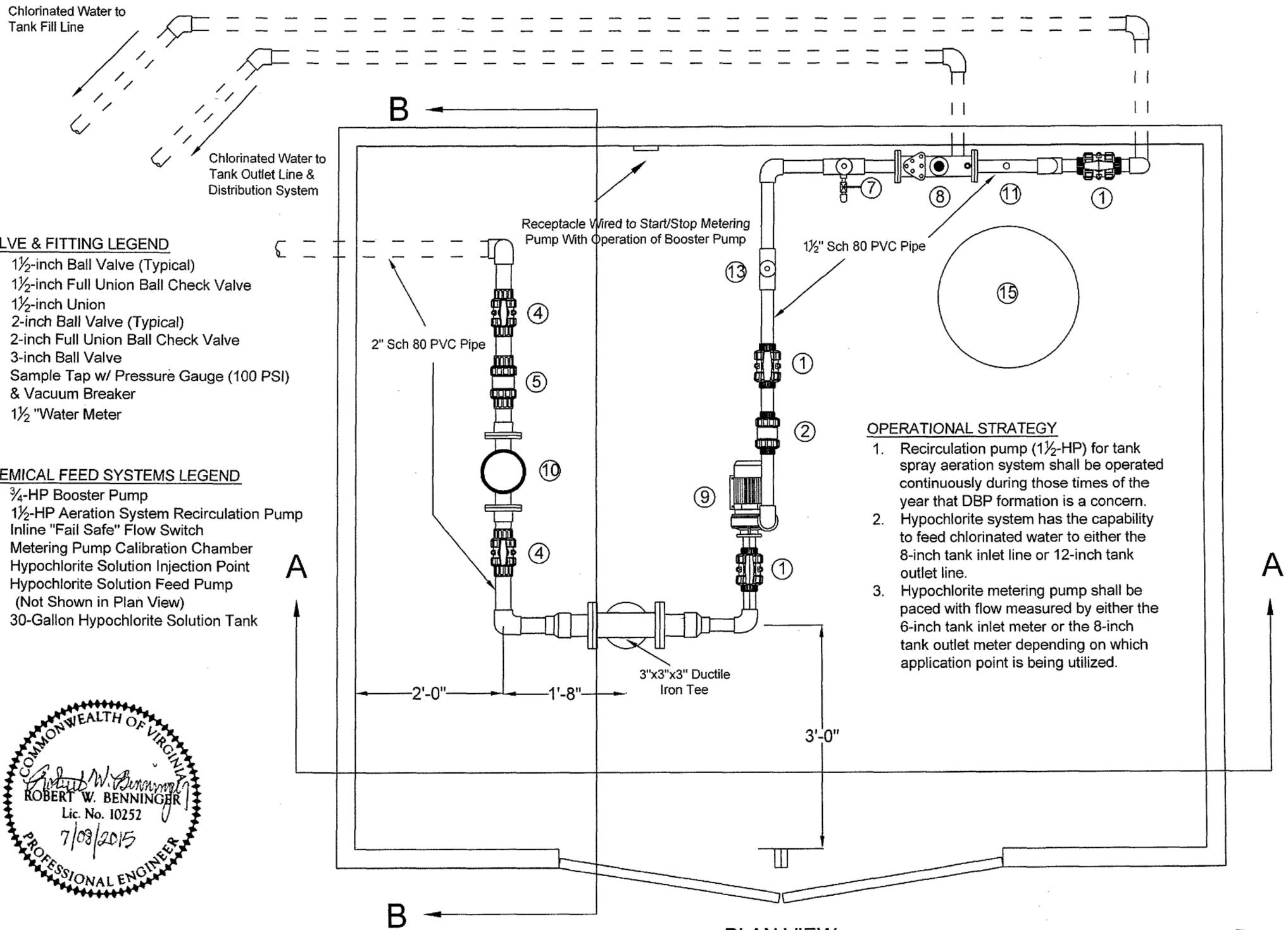

PLAN VIEW

VALVE & FITTING LEGEND

1. 1½-inch Ball Valve (Typical)
2. 1½-inch Full Union Ball Check Valve
3. 1½-inch Union
4. 2-inch Ball Valve (Typical)
5. 2-inch Full Union Ball Check Valve
6. 3-inch Ball Valve
7. Sample Tap w/ Pressure Gauge (100 PSI) & Vacuum Breaker
8. 1½ "Water Meter

CHEMICAL FEED SYSTEMS LEGEND

9. ¾-HP Booster Pump
10. 1½-HP Aeration System Recirculation Pump
11. Inline "Fail Safe" Flow Switch
12. Metering Pump Calibration Chamber
13. Hypochlorite Solution Injection Point
14. Hypochlorite Solution Feed Pump (Not Shown in Plan View)
15. 30-Gallon Hypochlorite Solution Tank

OPERATIONAL STRATEGY

1. Recirculation pump (1½-HP) for tank spray aeration system shall be operated continuously during those times of the year that DBP formation is a concern.
2. Hypochlorite system has the capability to feed chlorinated water to either the 8-inch tank inlet line or 12-inch tank outlet line.
3. Hypochlorite metering pump shall be paced with flow measured by either the 6-inch tank inlet meter or the 8-inch tank outlet meter depending on which application point is being utilized.

COMMONWEALTH OF VIRGINIA
ROBERT W. BENNINGER
Lic. No. 10252
7/08/2015
PROFESSIONAL ENGINEER

See Sheet 6

WESTERN VIRGINIA WATER AUTHORITY
ENGINEERING SERVICES
601 S JEFFERSON ST, SUITE 300
ROANOKE, VA 24011
540-853-5641 or 540-853-5770

BURNT CHIMNEY WATER STORAGE TANK

RECHLORINATION STATION

Rev	Description	Date	By

Designed: RWB
Drawn: RWB
Checked: TEC
Approved:
Date: 7-08-15
Project: