## CLA-VAL Model 636-03 Specifications

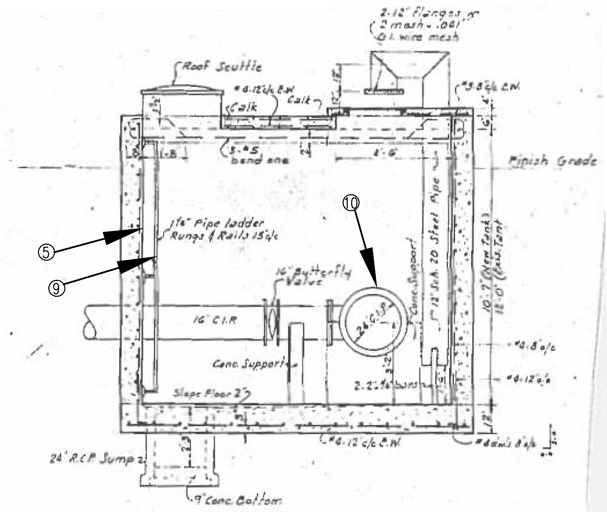
- ASTM A536 ductile iron, Pressure class 250 psi.
- Stem, nut, spring, disc guide, seat and cover bearing shall be stainless steel. Disc and diaphragm shall be Buna-A rubber.
- Valve shall be furnished in normally open position.
- Valve shall be equipped with an X1170 position indicator/transmitter.
- Valve shall have the capability to be opened/closed manually or by set points entered into SCADA for pressure transducer readings.
- Contractor shall provide one day of on-site training for Owners operating personnel.
- Training shall be administered by an authorized representative.
- Contractor shall provide a minimum of (3) three hard copies and a PDF file of the operation and maintenance manuals to the Owner.

## DEMOLITION NOTES:

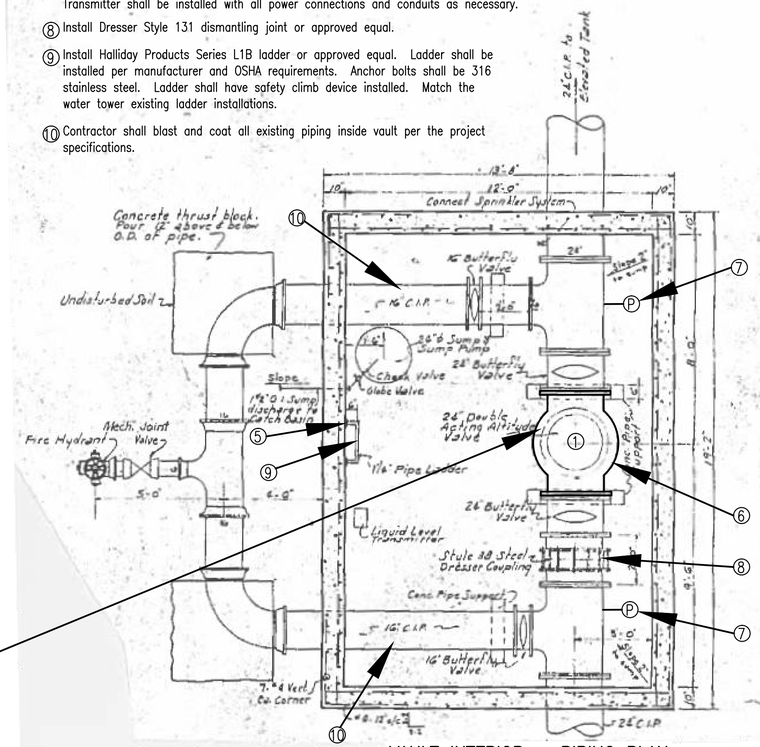
1. Remove existing control valve and dismantling joint.
2. Remove existing electric valve actuator and disconnect all live electrical feeds. Salvage all materials to the City of Wichita. Remove valve stem extension, existing handwheel to remain.
3. Modify or remove existing concrete pipe supports to allow for the removal of the existing control valve. Pipe supports shall be replaced in kind following valve installation.
4. If demolition to existing concrete structure is necessary for the removal of the existing control valve, Contractor shall submit a proposed demolition plan to the Engineer for approval. Contractor shall submit plan for repairing concrete vault in kind or in equal condition to existing.
5. Remove existing ladder, patch holes in the concrete as necessary. Contractor shall use BASF Sonocrete Gel Patch or approved equal.

## IMPROVEMENT NOTES:

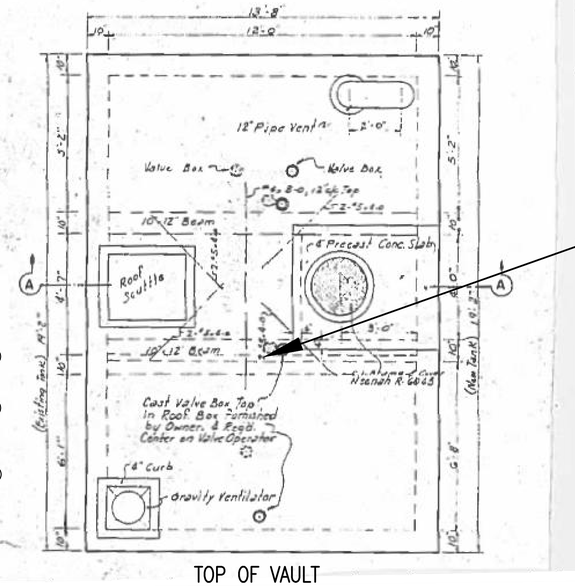
6. Install 24" CLA-VAL Model 636-03 solenoid control valve or approved equal. Valve shall meet all requirements per notes on this sheet. Contractor shall field verify sizes, dimensions, flanges, etc. prior to purchasing equipment, and submit discrepancies to the Engineer. Contractor shall provide all adaptors, bolts, gaskets, equipment, tools and incidentals necessary to complete the installation. Electrical connections and controls per the drawings.
7. Install pressure gauge and pressure transmitter per project specifications. Transmitter shall be installed with all power connections and conduits as necessary.
8. Install Dresser Style 131 dismantling joint or approved equal.
9. Install Halliday Products Series L1B ladder or approved equal. Ladder shall be installed per manufacturer and OSHA requirements. Anchor bolts shall be 316 stainless steel. Ladder shall have safety climb device installed. Match the water tower existing ladder installations.
10. Contractor shall blast and coat all existing piping inside vault per the project specifications.



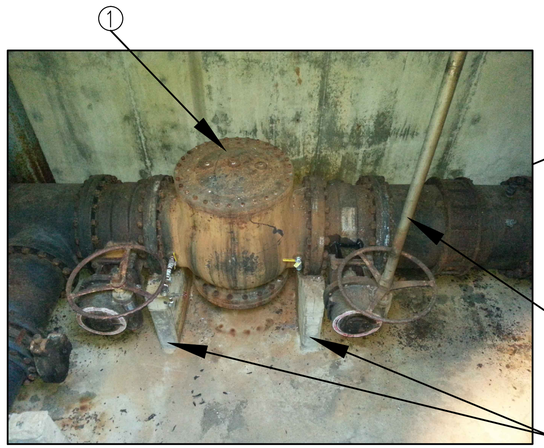

SECTION THRU VAULT




VAULT INTERIOR – PIPING PLAN




TOP OF VAULT




EXISTING CONTROL VALVE AND BUTTERFLY VALVES IN VAULT

TOP OF VAULT VIEW

ELECTRIC BUTTERFLY VALVE ACTUATOR

RYAN WILLIAM GLESSNER LICENSED 23090 04/06/2016 KANSAS PROFESSIONAL ENGINEER

| No. | Revision | By | Date |
|---|---|---|---|

CITY OF WICHITA, KANSAS

# WOODLAWN TOWER
# CONTROL VALVE REPLACEMENT
# (ADD ALTERNATE NO. 1)

WATER TOWER REHABILITATION

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

| Designed by | Job No. 34-14420-001 | Sht. C3 of 4 |
|---|---|---|
| Drawn by | Date APRIL 2016 | |

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Plot Scale 1:1 04-05-2016 9:14:22 AM by CRAIG LEWIS
U:\Wichita-Civil\2014\14420\001\W&WW\Drawings\14420-001 C3 Woodlawn Control valve