

Check Valve Sensor.
Route existing sensors communication lines from 2-6" check valve sensors. Add new communication sensor line GV-1 and pull cable for future check valve. Route conduit to existing communication manhole and connect to system.

Existing Valve Vault.
At Pump line 1, remove 2-10" Blind Flanges and install 10" Check Valve, 10" Gate Valve and 6ft of 10" DICL. See Sh 16 Elec. Plans for sensor installation.

Install 1-15'x4" Check Valve Vault, with 2-6" Flanged Check Valve and 1-10" Flanged Check Valve, & DICL Line for future 10" Check Valve see vault details.

12" FRP Foul Air Line.
12" FL = 1356.50

Install 30" PVC @ 0.15%, length 40lf with Plug.
30" FL = 1330.00
30" FL Plug = 1330.06

Cast-in-place Wet Well with 4'x12" hatch. See sheet 13 for pump details.

DETAIL A - A
Scale: 1" = 4'

Precast Wet Well Notes

- The price bid for Furnishing and Installing the Pump Station, including the Wet Well, Valve Vault, and Other Miscellaneous Appurtenances, Shall include all costs for Furnishing and installing the Pump Station as indicated in the Plans Complete in Place and in Operation. This Price Shall include the Cost of Constructing and/or installing Compacted Subgrade, Electrical Conduit, Electrical Wiring, Disconnect Switch, Pump Controls, Electrical Power Supply, Finished Grading, Concrete Slump Block Wall, and any other incidentals necessary to complete the work and place the Wet Well into satisfactory operation. The Price Bid Shall include All Sanitary Sewer Pipe and Force Main Extended Outside the Slab as Shown in the Site Plan and Details.
- All pump lines shall be Ductile Iron (Flanged) to 5' outside the structures, unless otherwise noted. All interior piping shall be Cement Lined and Epoxy Coated Ductile Iron Pipe.
- Pipe Penetrations thru the Wet Well, Valve Vault, and Concrete Pad shall be Grouted Watertight With Non-Shrink Grout and Water Stop Gaskets as required.
- The Contractor shall perform an Exfiltration Test on the complete Wet Well. The Wet Well shall be tested individually by securely plugging all inlet and outlet pipes. The Wet Well shall be filled to its full depth and then observed for at least six (6) hours. Exfiltration loss from the 6-foot diameter Wet Well shall not exceed the rate of 1.70 Gallons per foot of Wet Well depth per day. If exfiltration exceeds the maximum limits, the Contractor shall repair the leaks and defects, and then retest.
- The Contractor shall support all piping inside the Wet Well and Valve Vault as required.
- All hardware inside the Wet Well and Valve Vault, including but not limited to the Guide Bar, Hoist Chain, Chain Catch, etc. shall be stainless steel. 316 Stainless Steel shall be used when available, otherwise 304 Stainless Steel is acceptable. Nylon Rope will not be allowed in the Wet Well.
- Wet Well and Check Valve Vault design shall be subject to the same design requirements as Precast Manholes.
- The interior of the Wet Well shall be lined with Spectrashield per manufacturer specification. No substitutions without approval by the Engineer.
- Backfill around the Wet Well and under the Valve Vault and Pad shall be a low volume change material compacted to 95% ASTM D-1557.
- No Electrical Connections will be Allowed within the Wetwell.
- Contact City of Wichita Public Works at 316-219-8921 PRIOR to Lift Station Start-up.
- Contractor shall install 4 Fall Prevention Anchors at locations as shown outside of Hatch on above drawing. Anchors shall be 3M/Sala Model 2100169 Pour-in-Place Detent Anchor w/ Socket or approved equal.
- All joints to be double wrapped with Joint Tape for first layer and strapped band for the second layer in addition to Const. Spec. Requirements. All stubs are designed perpendicular to the wall of the manhole.
- All stubs to include an "A" lock ring. All stubs located below the elevation of 1347.00 are to include an outside stub to be jointed wrapped and a 6" thick layer of non-shrink grout surrounding the stub. Cost to be subsidiary to Wet Well.

GATE VALVE SCHEDULE

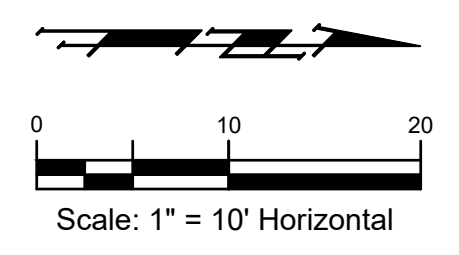
MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
GV-1	VALVE VAULT	NEW	10"	FLANGE	GEARED OPERATOR W/ EXTENSION & 2" NUT

CHECK VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
CV-1	CHECK VAULT	NEW	6"	FLANGE	LEVER & SPRING
CV-2	CHECK VAULT	NEW	6"	FLANGE	LEVER & SPRING
CV-3	CHECK VAULT	NEW	10"	FLANGE	LEVER & SPRING
CV-4	CHECK VAULT	FUTURE	10"	FLANGE	LEVER & SPRING
CV-5	EX. VALVE VAULT	NEW	10"	FLANGE	LEVER & SPRING

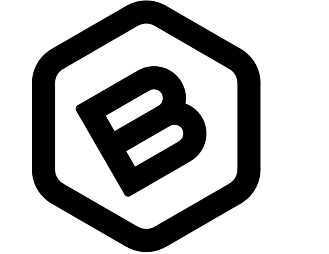
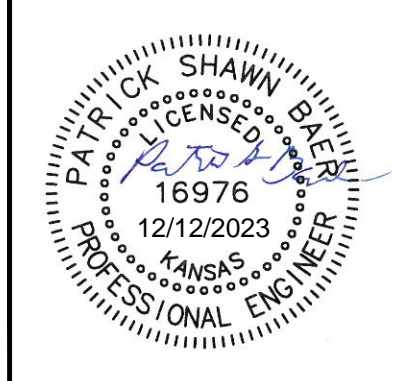
PUMP SCHEDULE

MARK	TYPE	GPM	HEAD (FT)	EFF. %	HP	RPM	ELECT.
P-1	SUBMERSIBLE	670	74.0	67%	15	1783	460/60/3
P-2	SUBMERSIBLE	670	74.0	67%	15	1783	460/60/3
P-3	SUBMERSIBLE	1489	78.9	75%	40	1172	460/60/3
P-4	FUTURE	1489	78.9	75%	40	1172	460/60/3



BENCHMARKS

- BM #1:**
Mag Nail on North edge of road, 78' West of North Entrance Gate into Plant 3 Facility.
Elev. = 1361.84 NGVD88
- BM #2:**
RR Spike in East Transmission power pole, 100' West and 4' North of the NE corner of Sewer Treatment Plant #3 Add.
Elev. = 1357.64 NGVD88
- BM #3:**
RR Spike in West Transmission power pole, 52' North of 37th St. N. E. & SE corner of Sewer Treatment Plant #3 Add.
Elev. = 1360.00 NGVD88



BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

PLANT #3 (NW)
NEW WET WELL

**OPTION #2
8'x17' Rect.
Wetwell**

SANITARY SEWER IMPROVEMENTS
PROJECT NUMBER:
468-2023-005511
DESIGN: PSB DRAWN: LN
DATE: Dec. 13, 2023
SHEET OF
10 29