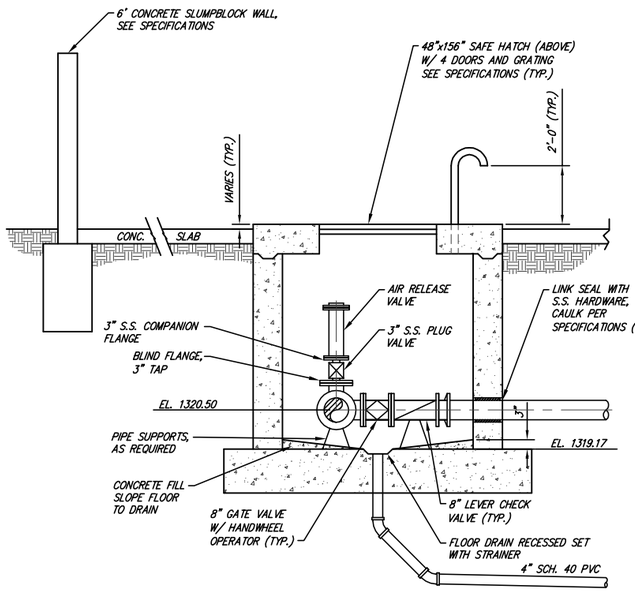
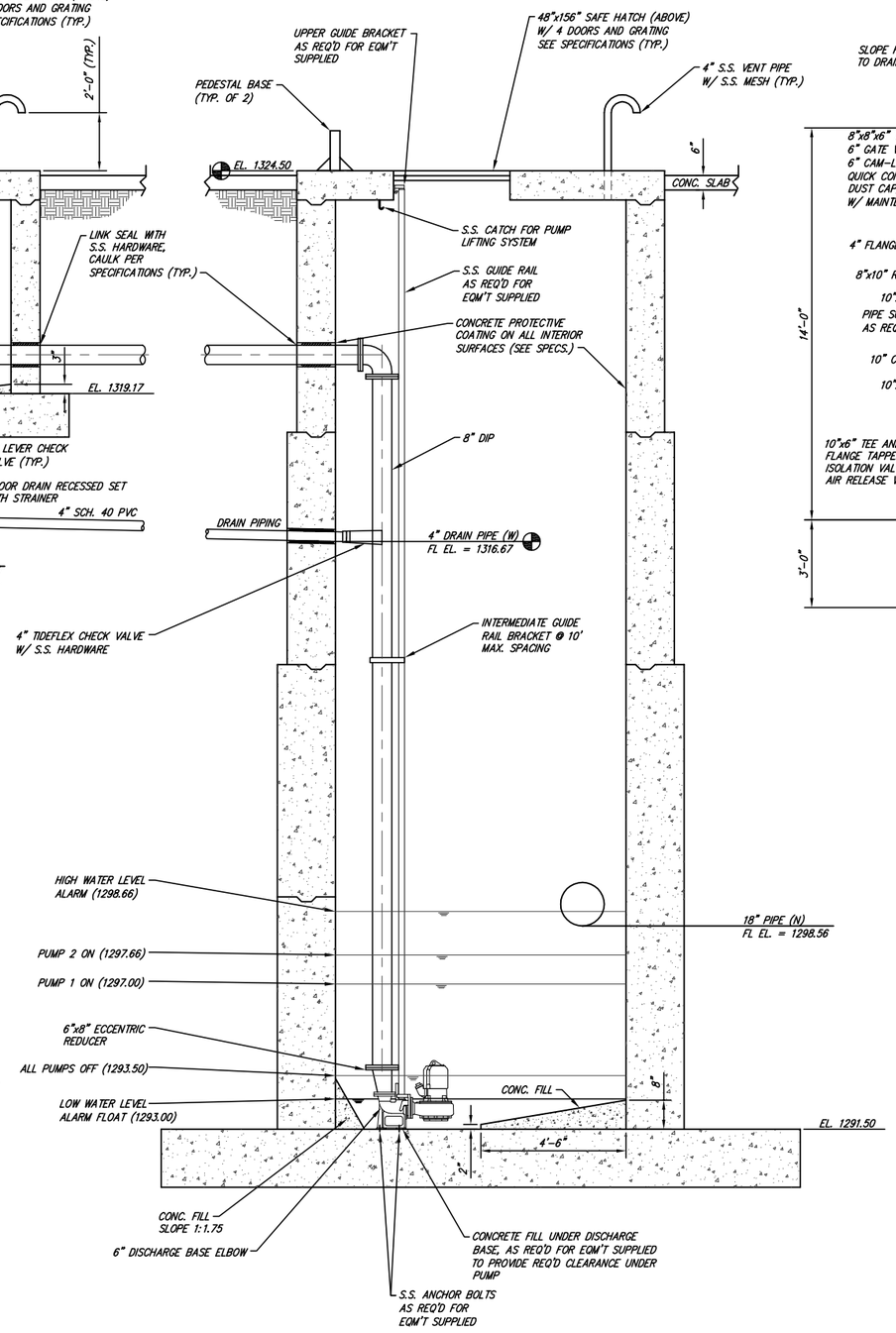
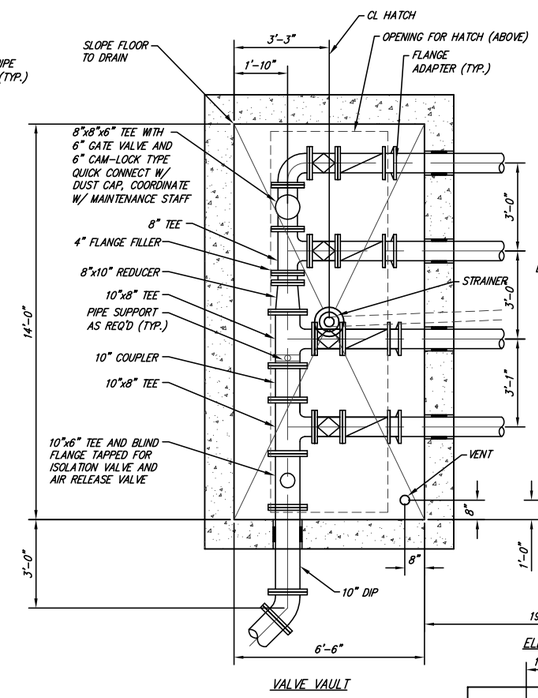


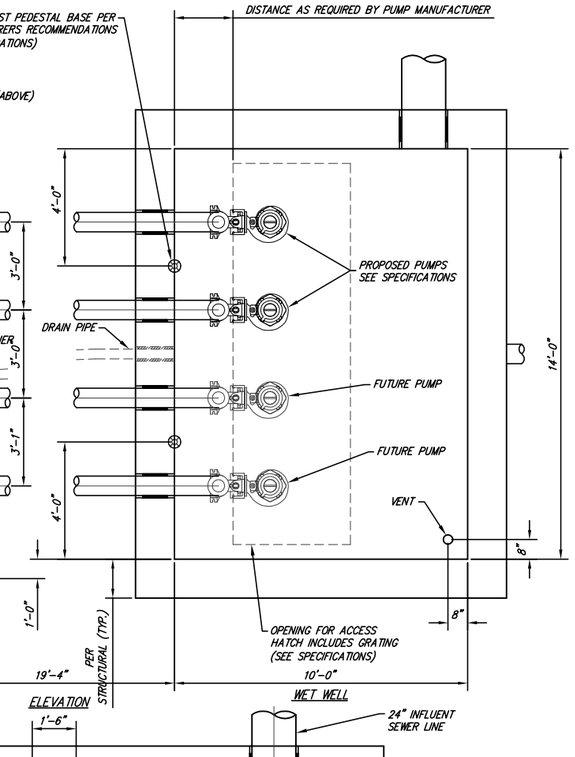
VALVE VAULT



WET WELL

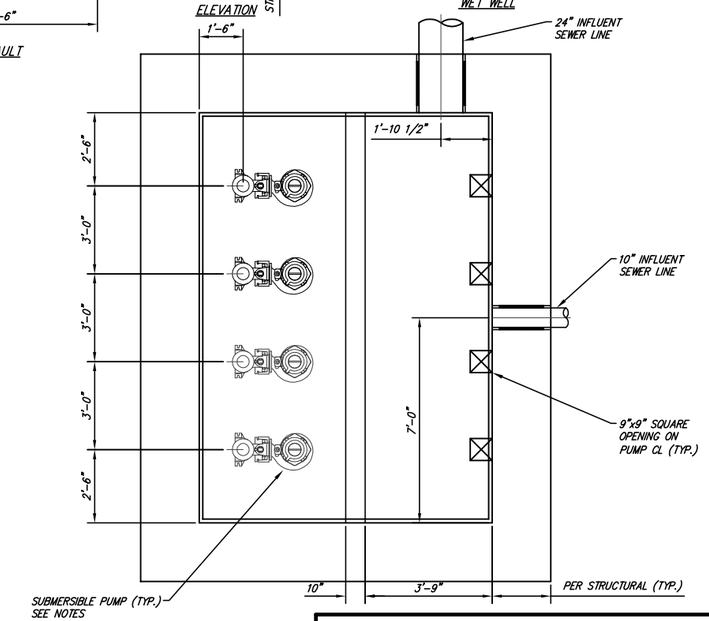


VALVE VAULT



ELEVATION

WET WELL



WET WELL
LOWER PLAN

NOTES

Pumps

Pumps shall be ABS Model AFP1547ME130/4EX-6", 17 HP, 460/3/60 or approved equal. The pump shall be a submersible 17 HP pump capable of operating at 1600 gpm at 50 feet of total dynamic head with a static head of 25 feet and both pumps on. Pump must be capable of operating at 900 gpm with 33 feet of total dynamic head with a single pump in operation. 6" Guide Rail and Pumps to be installed in accordance with manufacturer's specifications. Install adaptors as necessary to mount 4" pumps on 6" base assembly 4" Guide Rail and Pumps to be installed in accordance with manufacturer's specifications. Pumps are designed to operate in a duplex configuration such that pumps 1 & 2 will operate in a lead/lag configuration. An alternating device shall be provided with three positions: Pump 1, Pump 2, Alternate Pumps 1 & 2. The standard operation will be in the alternate position, with the other two positions reserved for one pump to be taken offline for maintenance.

Valves

Valves shall meet City of Wichita specifications for valves. A handwheel shall be provided for operating valves.

Control Panel

The control panel shall be ABS Model QCII or approved equal. The control panel shall be mounted in a NEMA 12 enclosure and mounted inside the provided fiberglass building. The conduit from the vaults and control panel shall be installed to allow installation of a second panel in the future. Control Panel shall have the following options included: elapsed time meter, push test pump fail indicator, high temperature indicator, push test high temp indicator, push test seal alarm indicator, seal failure dry contacts, common alarm dry contacts, 460V 3 phase power monitor, 3 phase lightning arrestor, and a time delay starting lag. The control panel shall be equipped with two (2) 110 volt service outlets. The contractor shall submit shop drawings and material specifications prior to installation. A PLC Pump controller is required.

Generator

The Generator shall be a 100KW, 480/277 3 phase Diesel Generator provided by Caterpillar, ONAN, Genorak or approved equal. It shall have a sound attenuated, all-weather enclosure. The generator shall be equipped with an automatic transfer switch and a 24 hour fuel supply.

Level Control System Notes

Bubbler type level control system compatible with City of Wichita specifications shall be installed for level control.

MAIN 23 SW INTERCEPTOR SEWER
PIPING AND PUMP LAYOUT
WICHITA SEDGWICK COUNTY KANSAS

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DESIGN	KWL
DRAWN	KWL
REVIEW	
UTILITY	
DATE	July 12, 2006
RB JOB	2822E
SHEET	11 OF 16
DRAWING FILE	lift station
PROJECT NUMBER	468-84141