



PLAN
NO SCALE

NOTES:

1. LIFT STATION BUILDING AND PIPING LAYOUT SHOWN ARE THE MINIMUM REQUIREMENTS PER THE CITY OF BONNEY LAKE. ACTUAL LAYOUT MAY VARY DEPENDING ON LIFT STATION SIZE AND SITE CONFIGURATION.
2. LIFT STATION ARRANGEMENT SHOWN IS FOR A 2 PUMP CONFIGURATION. FOR A 3 PUMP CONFIGURATION MODIFY PROCESS PIPING PER STANDARD DETAIL SS16.
3. REFER TO CITY OF BONNEY LAKE PUBLIC WORKS DESIGN STANDARDS SECTION 515 - "SANITARY SEWER STANDARDS" AND STANDARD DETAILS SS15 AND SS16 FOR ADDITIONAL REQUIREMENTS NOT SHOWN.
4. PROVIDE RESTRAINED FLEXIBLE COUPLINGS AT ALL PIPE PENETRATIONS THRU CONCRETE STRUCTURES AND BUILDINGS TO ALLOW FOR DIFFERENTIAL SETTLEMENT.
5. PUMPS AND WET WELL PIPING ARRANGEMENT SHALL BE IN ACCORDANCE WITH THE HYDRAULIC INSTITUTE STANDARDS AND SHALL MEET THE REQUIREMENTS OF THE PUMP MANUFACTURER.
6. ALL UNDERGROUND PROCESS PIPE AND FITTINGS SHALL BE DUCTILE IRON WITH RESTRAINED JOINTS. UNDERGROUND VALVES SHALL BE RESTRAINED JOINT WITH CAST IRON VALVE BOXES PER CITY REQUIREMENTS. EXPOSED PIPING SHALL BE FLANGED OR GROOVED END WITH FLANGED VALVES.
7. ALL DOMESTIC WASTE, VENT AND POTABLE WATER PIPING TO BE INSTALLED PER UNIFORM PLUMBING CODE (LATEST EDITION). PLUMBING PIPING SHOWN IS FOR REFERENCE ONLY ACTUAL PLUMBING LAYOUT MAY VARY.
8. BELOW GRADE WATER PIPING SHALL PER CITY OF BONNEY LAKE PUBLIC WORKS DESIGN STANDARDS SECTION 400 - "WATER SYSTEM STANDARDS". ABOVE GRADE WATER PIPING TO BE COPPER TYPE L WITH SOLDERED FITTINGS. ABOVE GRADE WATER VALVES SHALL BE FORGED BRASS BALL VALVES WITH SOLDERED ENDS.
9. BUILDING AND VAULT WASTE AND VENT PIPE AND FITTINGS SHALL BE SCHEDULE 40 PVC DWV (DRAIN, WASTE, AND VENT). ALL DRAINS SHALL BE EQUIPPED WITH DEEP SEAL TRAPS AND TRAPGUARDS.
10. HVAC SYSTEM SHALL BE DESIGNED PER CITY DESIGN STANDARDS AND SHALL MEET THE REQUIREMENTS OF THE UNIFORM MECHANICAL CODE AND CONSTRUCTED AND INSTALLED PER SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) GUIDELINES.
11. REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE PER DEPARTMENT OF HEALTH REQUIREMENTS. INSTALL MINIMUM 18" FROM FLOOR AND 6" MINIMUM FROM WALL. MAINTAIN 12" MINIMUM WORKING CLEARANCE IN FRONT OF BACKFLOW PREVENTER.
12. WET WELL FLUSH PIPE TO BE TERMINATED 12" ABOVE BOTTOM OF WET WELL WITH A 45° FITTING DIRECTED PARALLEL TO WET WELL WALL.
13. WALL MOUNTED STAINLESS STEEL UTILITY SINK WITH FAUCET (24"x20"x12" DEEP MINIMUM). PROVIDE INSTANTANEOUS ELECTRIC WATER HEATER BELOW UTILITY SINK.
14. LOCATE INFLUENT SEWER(S) ON OPPOSITE HALF OF WET WELL FROM PUMP DISCHARGE PIPES.
15. CITY OF BONNEY LAKE RESERVES THE RIGHT TO REQUIRE A TOILET ROOM IN BUILDING DEPENDING ON LOCATION OF LIFT STATION.

Approved: *[Signature]* October 22, 2007
 City Engineer Date
 SANITARY SEWER STANDARD DETAIL



Dwg No: **SS19**
**CONCEPTUAL LIFT STATION
 BUILDING FLOOR PLAN**