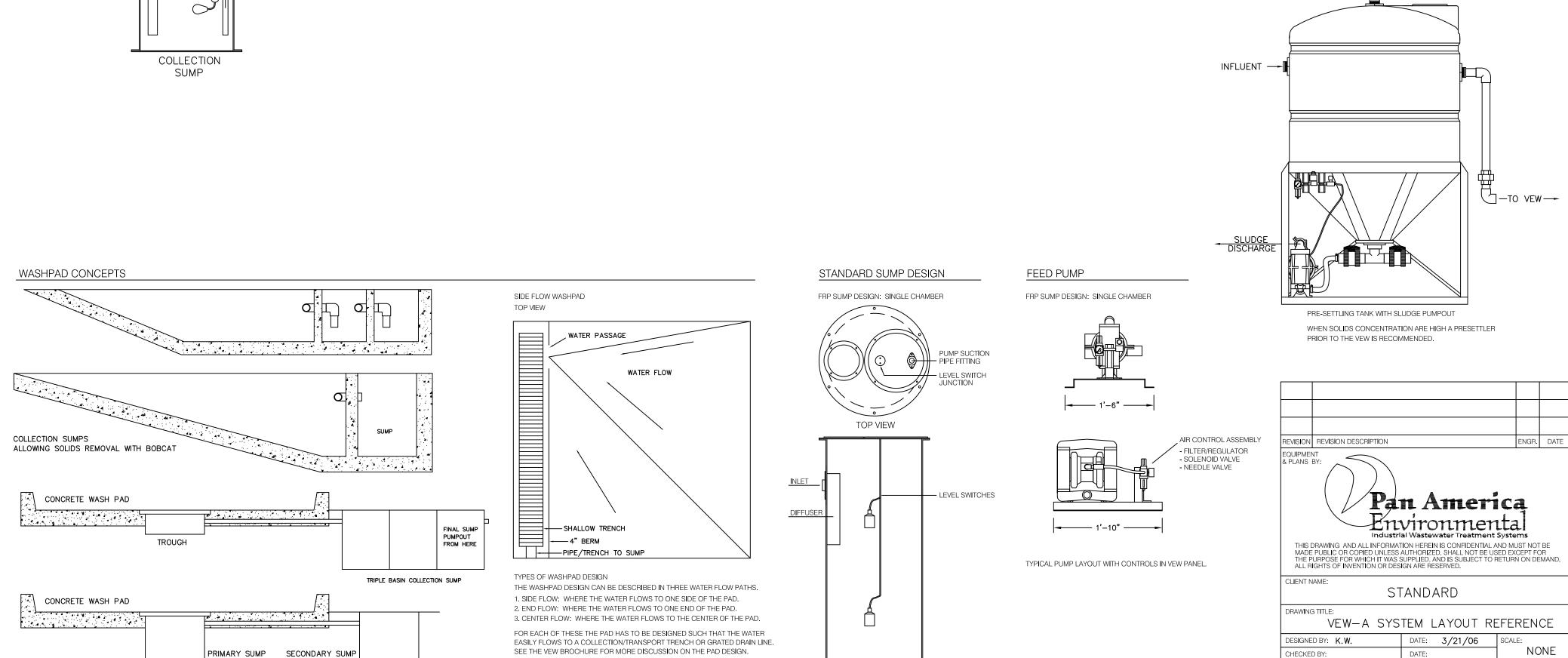
## OPERATION DESCRIPTION Biological Treatment EnBio REFERENCE The two level switches in the sump monitor the water level and determine automatic on/off of feed pump based on water level. The EnBio system automatically doses bacteria on a timed basis throughout the day To complete the recycle system capability the EnBio bacterial injection for biological treatment The water is treated by the oil water separator and collects in the effluent chamber. Two level switches in this chamber automatically control the effluent pump on/off based on water level. A third, high-high level is recommended. This system consists of a chemical metering pump, automatic timing controls, switch monitors for a high water condition indicating there is a backup in the ows or something down stream from the effluent pump has plugged or stopped the pump. If the backup condition occurs the high-high liquid injector and the EnBio bacterial liquid. When provided with the VEW system it is float switch will shutdown the feed pump and trigger an alarm light. integrated into the system skid. Bacterial Treatment Water from the VEW is collected in the PSM tank where the pressurization pump can then pump the water out to the pressurization tank under demand from the pressure washer. Bacterial digestion is the process of bacteria consuming organic mattter. A pressure switch monitors the pressure tank pressure and controls the pressurization pump on/off based on the pressure rise & fall. The pump turns on at 30 psi and off at 50 psi CLEAN FILL (on/off pressure is adjustable at switch). A low level switch is provided in the PSM tank to monitor water level and shutdown the pressurization pump if water level is too low. Enzymes act to break the organic matter into water soluble nutrients, which the bacteria then digest. Using complex chemical reactions, the bacteria metabolize the organic waste down to water and carbon dioxide providing the bacteria with energy for growth and reproduction. The low level shutdown triggers an alarm light to indicate low water level. Organic waste is consumed by bacteria and is no longer present to produce odor, sludge, **OVERFLOW** pollution or biological growth. OUTLET ELECTRICAL REFERENCE Amps: / HP / Electrical power reg'd 115V/1PH/60HZ. VEW-2 1/3 1/2 115V/1PH/60HZ. VFW-4 VEW-8 1.0 115V/1PH/60HZ. VEW-12 1.5 230V/3PH/60HZ. VEW-16 1.5 230V/3PH/60HZ. \*Voltage and amp load is based on the VEW system only without any of the options added to the system. EnBio INJECTION ---AERATION MAY NOTES BE REQUIRED A FULL RECYCLE SYSTEM CONSISTS OF THE FOLLOWING SUB-SYSTEMS: - VEW-A SYSTEM - INFLUENT FEED SYSTEM - EnBio BIO-TREATMENT OR BIO-REACTOR SYSTEM SKIMMED TO EnBio - AERATION SYSTEM TO SUPPLY EnBio BACTERIA WITH OXYGENATION OILS **PRESSURE** - PSM SYSTEM OR CLEAN WATER HOLDING TANK AIR SUPPLY WASHER - WASHPAD - COLLECTION SUMP 4 4 4 A A VEW-A VEHICLE WASH SYSTEM PRESSURE SUPPLY SYSTEM WASH WATER -INFLUENT FEED HIGH SOLIDS PRESETTLER INLET SYSTEM



SECTION VIEW

JOB NUMBER:

DRAWING NUMBER

VEWA SYSTEM LAYOUT

SHEET

1