



SECTION 10 - INSPECTION AND ACCEPTANCE REQUIREMENTS

In addition to the ongoing construction inspection by DCS Construction Inspectors, DCS Operations/Pump Station personnel shall make two inspections of the constructed work at specific stages of the pump station construction. The contractor responsible for construction of the pump station shall notify DCSD when the facility is ready for inspection. Contract Division Welders, DCSD Chief Mechanic, at 636-441-1244, to schedule inspection. Forty eight (48) hour advance notice is required. Failure to have the inspection performed at the proper time during the construction process could result in the District requiring the removal and reconstruction of the completed work.

10.1 STAGE ONE OPERATIONS/CONSTRUCTION INSPECTION
This inspection shall be performed following the completion of the wet well floor, the installation of the pump bases and prior to allowing water or sewage into the pump station. The contractor shall be responsible for ensuring that the floor is clean and dry for this inspection.

10.2 STAGE TWO OPERATIONS/CONSTRUCTION INSPECTION
This inspection shall be performed when one hundred percent (100%) of the pump station structure, storage tank and force main have been completed and all electrical and mechanical equipment and appurtenances, access road and other pavement have been installed and are in operating condition. Representatives from the pump equipment manufacturer and the installing electrical contractor shall be present at the pump station for this inspection.

A. Submittal Requirements
Prior to requesting this inspection the following items shall be submitted to the DCSD Engineering Department, Construction Inspection Section for distribution to the appropriate DCSD personnel:

- Four sets of As-built electrical schematics.
- As-built mylar and three sets of as-built prints of the pump station site, prepared by an engineer or land surveyor registered in the Missouri, certifying that all structures, sewers, roads and other pavement were built in accordance with the approved plans and located within existing easements.
- A complete set of the as-built drawing including an AutoCad dwg file (e-mailed or on CD).
- Manufacturer's Pump start-up test procedures; the recorded factory test readings for voltage, current and other significant parameters documented on standard forms; and blank forms for the field test.
- Letter of completion from paving contractor, guaranteeing that all pavement and pavement substructure has been installed per the approved plans and specifications.
- Control panel schematics, 11"x17" in size, laminated to the inside of the control panel exterior door.
- Operating manuals and specification literature.
- Copy of electric, gas and water bills to facilitate the transfer of these accounts to DCSD at the time of dedication.

B. Pump Tests
In the presence of the DCSD Operation/Pump Station personnel, the contractor shall subject the pump equipment to such operating tests as may be required by the District to demonstrate that the equipment performs in accordance with the design requirements. As a minimum, the following two tests shall be performed:

- The insulation resistance of the pump's windings and cables shall be tested. The installed pumps shall not register less than 100 meg-ohms resistance per winding on a meg-ohm meter.
- The pumps shall be subjected to start-up tests with the voltage, current and other significant parameters being recorded on the standard forms provided by the manufacturer. The contractor shall arrange for an adequate supply of water for the tests. The minimum quantity of water to be provided shall be equivalent to 1.5 minutes of continuous pumping at the rated pump capacity for each pump operating alone. Each pump shall be tested a minimum of two times.

10.3 CONSTRUCTION, OPERATION AND MAINTENANCE
It is the responsibility of the Developer to construct the pump station according to the approved construction plans. When the pump station has received construction approval and all operation manuals, specification literature and electrical diagrams have been received, the pump station and related appurtenances will be accepted by Duckett Creek Sanitary District for operation and maintenance.

10.4 WARRANTY
In addition to the equipment manufacturer's general warranties, the Developer shall warrant the pump station and related appurtenances to be free from defects in materials and workmanship for a period of not less than one year from the date of Duckett Creek Sanitary District's final written dedication of said pump station.

10.5 FINAL ACCEPTANCE
Final acceptance of the pump station shall be subject to the completion of all items stated above as well as the installation of fencing and satisfactory completion of all site restoration as required.

FORCE MAIN TEST PRESSURE = 237 PSI

CALL MISSOURI ONE CALL SYSTEMS INC. TWO FULL WORKING DAYS IN ADVANCE OF STARTING

THE UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, OR NON EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE OR OTHER UTILITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITIES IN THE FIELD, SHOWN OR NOT SHOWN, PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319, RSMO.

WORK MISSOURI ONE-CALL 1-800-344-7483

MCKELVEY HOMES
Building A Tradition Of Excellence Since 1888
218 Chesterfield Towne Center
Chesterfield, MO 63005
Phone: (636) 530-6800

VOLZ
INCORPORATED
10849 Indian Head Indl. Blvd.
St. Louis, Missouri 63132
314.850.1250 Fax
www.volzinc.com
Authority #203

RYAN L. HOLMES
Professional Engineer
PE-2017018988

SOMMERLIN

PUMP STATION PLAN, DETAILS, & NOTES

Design By: R/LH
Drawn By: R/LH
Checked By: R/LH

06-28-21
CA7

Vote Project # 22074

H:\CAD\22000-22999\22074\Nmp\Plans\22074 - C47_Pump_Station_Plan_Notes_&_Details.dgn - Default 6/29/2021 5:15:29 PM Plotted by: rholmes Plot Scale: 10:0000 Plot Table: volz15 PDF.tbl

©Fallon Planning and Development Division File No.: 20-00554 | Approved: January 7, 2021