

L/S #
#5

PUMP STATION ENGINEERING ORDER
DUO-DUCT

LOCATION Arlington, WA STATION SERIAL NO. 06-0107-C
OWNER Selland Construction ENGINEER Cascade Surveying & Engineering

1. Station Size Duo-Duct (Dia.) 8'-0" Height 8'-6" Sump Pump Part No. 8L47
2. Suction Piping/Base Beams Pump 1 8"x8" Pump 2 8"x8"
Pump 3 _____ Pump 4 _____
3. Suction (Gate) Valve Pump 1 6" Pump 2 6" Pump 3 _____ Pump 4 _____
4. Pump Discharge (Gate) Valve Pump 1 6" Pump 2 6"
Pump 3 _____ Pump 4 _____
5. Common Discharge Outlet (P.E.) (Stl) Size 8"
6. Entrance Tube 36" Dia. x 16'-5" Long
7. Main Conduit Size 1-1/2" Aux. Conduit 2)1/2" (Describe) Alarms WW blower
Blower Part No. 7L277
8. Electrical Service System Data: 3 Phase 60 Cycle 460 Volts
3 Wire
9. 110V Single Phase Current (not) available 5 KVA Trans. Req'd
460 V to 120 VAC
10. Depth of Bury Ground Elevation to Base Pad 24 ' - 0 "
Base Reinforcing Package (No).

PUMP & MOTOR DATA

PUMP DATA	PUMP 1	PUMP 2	PUMP 3	PUMP 4
Design Characteristics (GPM @ TDH)	520 @ 30.5'	520 @ 30.5'		
Pump Model	4B2G	4B2G		
Impeller Diameter	7-1/8"	7-1/8"		
Rotation (CW) (CCW)	CW	CCW		
S&L Mech. Seal-Filter Ass'y (Size)	1-7/8"	1-7/8"		
Pump Serial Number				

MOTOR DATA (INVENTORY CODE)

Horsepower	15	15		
R.P.M.	1760	1760		
Phase/Cycle/Volts	3/60/460	3/60/460		
Motor Serial No. (Code Ltr.)				
Squirrel Cage (SC) or Wound Rotor (WR)	SC	SC		
Special Modifications				
Across-The-Line (AL) or Part Winding (PW) Start	AL	AL		

CONTROL PANEL DATA TYPE NEMA 1 U.L. Listed WIRING DIAGRAM NO. C06-0107-30

MOTOR CONTROL EQUIPMENT		PUMP 1	PUMP 2	PUMP 3	PUMP 4
Circuit Breaker - Trip Rating - Amps	40	4L258CF	4L258CF		
Magnetic Starter - Nema Size	2	4L330CC	4L330CC		
O.L. Coil No. FH					

AUXILIARY		BLOWER	SUMP	AIR COMPRESSORS	
CIRCUIT BREAKERS	LIGHTS	DEHUMIDIFIER	PUMP	& CONTROL	TRANSFORMER
Trip Rating-Amps	15	20	15	15	15

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Serial No. 06-0107-C

PUMP STATION ENGINEERING ORDER (PAGE 2 OF 2)

S&L BUBBLER CONTROL SYSTEM PRESSURE SWITCH SETTINGS	LOW LEVEL	HIGH LEVEL	LOW WATER (L&R) ALARM	HIGH WATER (L&R) ALARM
P. S. S&L Part No.	4L200B	4L200D	4L200A	4L200D
High Level Actuation (Feet)	5.5	6.5	3.5	7.0
Low Level Actuation (Feet)	3.5	4.0	2.0	5.5

OTHER CONTROL & AUXILIARY APPARATUS:

(The following equipment is standard equipment on all Smith & Loveless Pump Stations. It is listed here for the engineers and customers information only. Any deviations shall be listed in space provided below).

- Automatic Alternator
- Nema 3 Wire 1 Phase Duplex Receptacle
- S&L Damtite Seal (Spare)
- Dehumidifier
- Plastic "Level-Set" Indicator Tube
- Magnesium Anodes (4 provided)
- Spare Volute Gaskets
- Spare Pump Filter Cone
- Touch-Up Kit (Paint-Brushes)
- Blower Timer

SPECIAL MODIFICATIONS - ADDITIONS - AUXILIARY EQUIPMENT

1. Provide elapsed time meters (one per pump).
2. Provide high and low water alarms for local and remote indication. All indicating devices are by others.
3. Provide conduit and terminal strips for future telemetry system by others.
4. Provide NEMA 1 U.L. listed control panel.
5. Provide circuit breaker in the control panel and terminal points for wet well blower furnished by others.
6. Provide Norton safety climb device.
7. Provide 1/4" taps and plugs on the suction and discharge piping.
8. Provide a total of four anodes.
9. Provide an emergency generator connection for power interlock to allow only one pump to run under generator power.
10. Provide deep bury package.
11. Provide a high head sump pump.

SALES ENGINEERING	Maintenance Manual Qty.	COMPANION JOB SERIAL NOS.
PREPARED BY	Rep <u>1</u>	
DATE	Job File <u>1</u>	
C. Eppler	Contractor <u>6</u>	
6-8-90		