

Job Name:	East Barracks - Dom.	<b>Sales Order: 291254</b>	Prod. Number: 20092357
Location:	,	Date: 04/28/2009	By: WL
Consulting Engineer:		Rev: A Date: 06/22/09	By: KAH
Mechanical Contractor:		System Drawing No.:	291240A1
Sales Representative:	SYNCROFLO FACTORY SALES	System Ship Date:	

<u><b>System Information:</b></u>		<u><b>Pump Information:</b></u>	
Model:	CUSTOM	Pump Number:	1 2,3
Type:	EP	Pump Type:	VMS CCES
Model Number:	540E49P	Pump Model:	3SV-4 825AM
Class:	CO3	Design Split (%):	7 46
Design Flow Rate:	540 gpm	Duty Point Flow Rate (GPM):	50 250
System Pressure:	50 psig	Duty Point TDH (feet):	118 115
Minimum Suction Pressure:	1.5 psig	Shutoff Pressure (PSIG):	74 55
Maximum Suction Pressure:	psig	Impeller Trim:	FULL 7.02
Max. Differential Pressure:	45 psi	Motor Horsepower:	3 10
		Motor Speed (RPM):	2900 2900
		Motor Frame Size:	213JM
		Motor Enclosure Type:	TEFC TEFC
		Motor Service Factor:	1.15 1.15
		PRV Size (inches):	1.5 3
		PRV Setting (PSIG):	89 89
		Check Valve Size (inches):	1.5
		Seal Type:	MECH MECH
		Suction Valve Size (inches):	2 3
		Discharge Valve Size (inches):	1.5 3
<u><b>Sequence of Operation:</b></u>			
0 to 50 gpm Pump 1			
51 to 300 gpm Pump 1 & 2			
301 to 550 gpm Pump 1, 2, & 3			
Factory Test			

<u><b>Construction and Component Information</b></u>			
Assembly: Completely Prefabricated Assembly		Pressure Gauges: Glycerin Filled	
Overall Size: 75 L x56 W x60 H Inches		Suction Pressure:	0 to 100 psig
Skid Size: 75 L x56 W Inches		System Pressure:	0 to 200 psig
Estimated Dry Weight: 2400		Pump Pressure (each pump):	0 to 200 psig
Suction Header: 6 Inch 125/150 lb class RH Entry		System & Suction Gauges Control Panel Mounted	
Discharge Header: 6 Inch 125/150 lb class RH Exit		Pump Gauges Pump Mounted	
Header Material: Stainless Steel		Location : Remote Mounted	
Branch Material: Stainless Steel			
Tube Material: Stainless Steel			

<u><b>Valve Information</b></u>	
Pressure Regulating Valves (PRVs):	Suction Isolation Valves:
	Pump: 1,2,3 Type: Butterfly Class: 125/150 Ends: Lug
Pump: 1 Type: Angle Class: 125/150 Ends: Flanged	Discharge Isolation Valves:
Pump: 2,3 Type: Angle w/CHK Class: 125/150 Ends: FPT	Pump: 1 Type: Ball Class: 125/150 Ends: Flanged
	Pump: 2,3 Type: Butterfly Class: 125/150 Ends: Lug

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ADDITIONAL INFORMATION:

- 1100 Gallon Hydorpneumatic tank
- 1-1/2" Tank feedline

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 Control Panel Type: PC - Custom  
 Enclosure NEMA Rating: 1  
 Enclosure Size: 24 H x 30 W x 8 D - 1 Door

Date: 04/28/2009    By: WL  
 Revision: 6/22/    By: KAH  
 Control Panel Dwg#: 28-132OIT  
 Schematic Dwg#: A892-3SA  
 Schematic Dwg#: A805-1005-402

<u><b>Motor Circuit Specs:</b></u>			<u><b>Primary Power Information:</b></u>
Motor Number:	1	2,3	Three Phase
HorsePower:	3	10	50 Hertz Hertz
Full Load Amps (NEC):	6.1	18	380 Volts
Wire Size:	14	10	
Fuse Size (Amps):			
Disc. Sw. Size (Amps):	25	25	Single Connection
Breaker Size (Amps):			Full Load Amps: 42
Contactors Size:	3/380	10/380	Wire Size: 8
Overload Size (Amps):	5.5-8	14-20	
			Short Circuit Current Rating (kA): 5
			NOTE: All wire sizes are in accordance with UL508A

<u><b>External Electrical Components:</b></u>		
Mechanical Temperature Relief Valve	Lead Pump Pressure Switch	Set at: / 116psig
	Low System Pressure Switch	Set at: 30 psig
	High System Pressure Switch	Set at: 75 psig
Paddlewheel Flow Sensor		

<u><b>Control Panel Components:</b></u>	
Individual Motor Disconnect Switches	
Pump Run Lights & Selector Switches	
Control Power Indicating Light	
Power Monitor	
	Individual Pump Elapsed Run Time Meters
Alarm Horn	
Alarm Silence / Reset Push Button	
	Programmable Controller - See Sequence of Operation
Disconnect Switch Interlock Contacts	
	Individual Alarm Auxiliary Contact(s)
Motor Starters - Full Voltage Start	<u><b>Relays</b></u>
Control Transformer Size: 100 VA	Low Suction Pressure
Primary Fuse Size: 1 Amps	
Secondary Fuse Size: 1.4 Amps	
Additional Components or Information - See Page 2	

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ADDITIONAL COMPONENTS:

- Alarm Condition light.
- OIT model 3165
- Lead pump start pressure switch set at 35psi

ADDITIONAL INFORMATION:

- Paddlewheel flow sensor shipped loose for remote mounting by contractor.