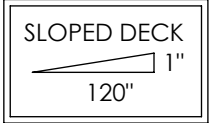



ELECTRIC MOTORS NOT INCLUDED

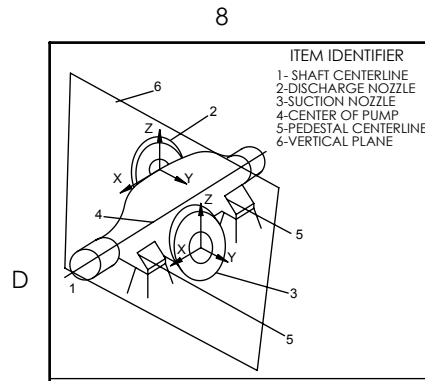
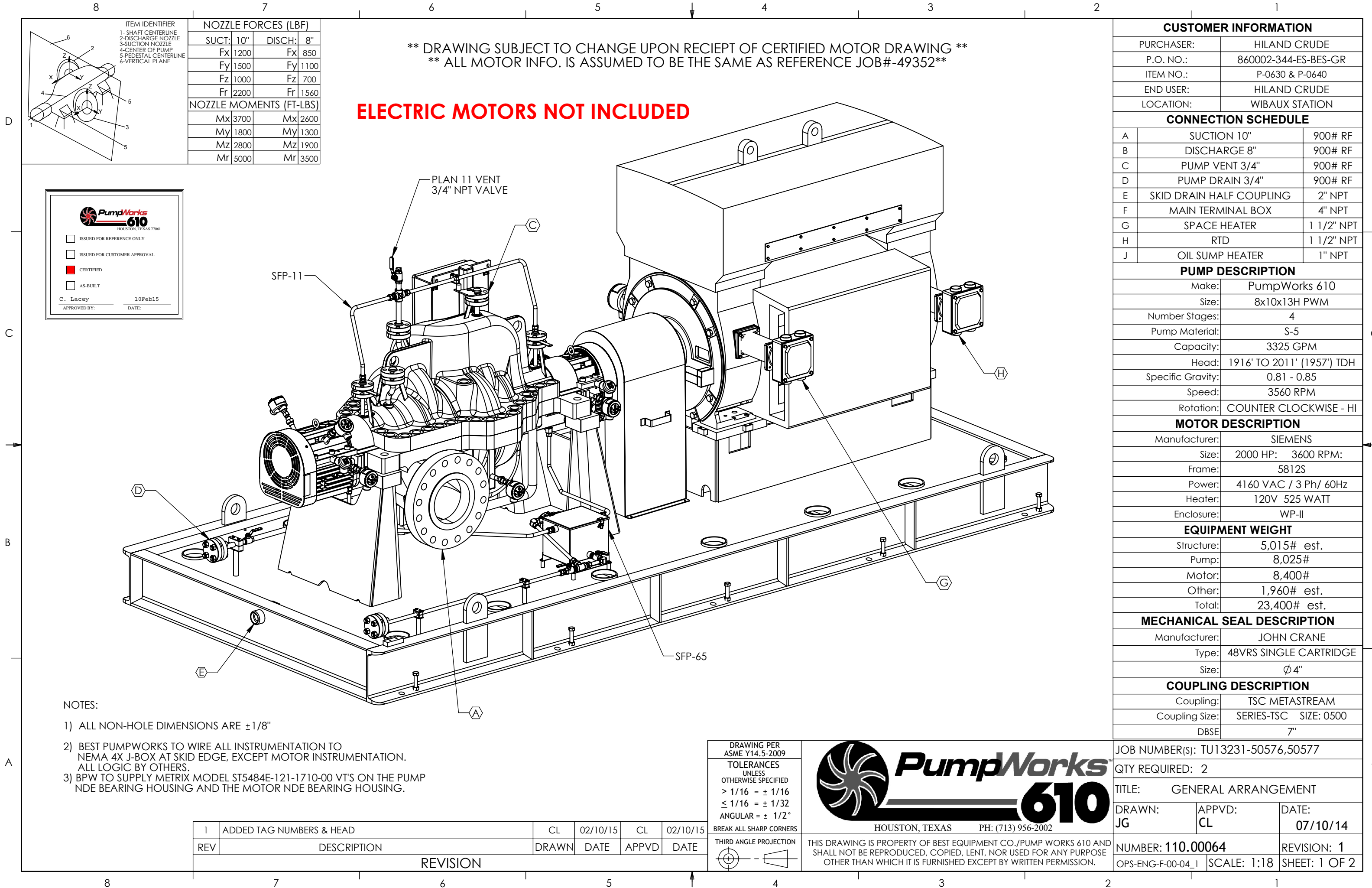




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JOB NUMBER(S): TU13231-50574,50575		
QTY REQUIRED: 2		
TITLE: GENERAL ARRANGEMENT		
DRAWN: JG	APPVD: CL	DATE: 07/10/14
NUMBER: 110.00063		REVISION: 1
OPS-ENG-F-00-07_1	SCALE: 1:26	SHEET: 2 OF 2



NOZZLE FORCES (LBF)			
SUCT:	10"	DISCH:	8"
Fx	1200	Fx	850
Fy	1500	Fy	1100
Fz	1000	Fz	700
Fr	2200	Fr	1560
NOZZLE MOMENTS (FT-LBS)			
Mx	3700	Mx	2600
My	1800	My	1300
Mz	2800	Mz	1900
Mr	5000	Mr	3500

ELECTRIC MOTORS NOT INCLUDED

**** DRAWING SUBJECT TO CHANGE UPON RECEIPT OF CERTIFIED MOTOR DRAWING ****
**** ALL MOTOR INFO. IS ASSUMED TO BE THE SAME AS REFERENCE JOB#-49352****



HOUSTON, TEXAS 77061

☐ ISSUED FOR REFERENCE ONLY

☐ ISSUED FOR CUSTOMER APPROVAL

☒ CERTIFIED

☐ AS-BUILT

C. Lacey

10Feb15

APPROVED BY:

DATE:

- NOTES:
- 1) ALL NON-HOLE DIMENSIONS ARE $\pm 1/8"$
 - 2) BEST PUMPWORKS TO WIRE ALL INSTRUMENTATION TO NEMA 4X J-BOX AT SKID EDGE, EXCEPT MOTOR INSTRUMENTATION. ALL LOGIC BY OTHERS.
 - 3) BPW TO SUPPLY METRIX MODEL ST5484E-121-1710-00 VT'S ON THE PUMP NDE BEARING HOUSING AND THE MOTOR NDE BEARING HOUSING.

1	ADDED TAG NUMBERS & HEAD	CL	02/10/15	CL	02/10/15
REV	DESCRIPTION	DRAWN	DATE	APPVD	DATE
REVISION					

DRAWING PER
ASME Y14.5-2009

TOLERANCES
UNLESS
OTHERWISE SPECIFIED

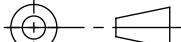
$> 1/16 = \pm 1/16$


$\leq 1/16 = \pm 1/32$

ANGULAR = $\pm 1/2^\circ$

BREAK ALL SHARP CORNERS

THIRD ANGLE PROJECTION





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CUSTOMER INFORMATION		
PURCHASER:		HILAND CRUDE
P.O. NO.:		860002-344-ES-BES-GR
ITEM NO.:		P-0630 & P-0640
END USER:		HILAND CRUDE
LOCATION:		WIBAUX STATION
CONNECTION SCHEDULE		
A	SUCTION 10"	900# RF
B	DISCHARGE 8"	900# RF
C	PUMP VENT 3/4"	900# RF
D	PUMP DRAIN 3/4"	900# RF
E	SKID DRAIN HALF COUPLING	2" NPT
F	MAIN TERMINAL BOX	4" NPT
G	SPACE HEATER	1 1/2" NPT
H	RTD	1 1/2" NPT
J	OIL SUMP HEATER	1" NPT
PUMP DESCRIPTION		
Make:	PumpWorks 610	
Size:	8x10x13H PWM	
Number Stages:	4	
Pump Material:	S-5	
Capacity:	3325 GPM	
Head:	1916' TO 2011' (1957') TDH	
Specific Gravity:	0.81 - 0.85	
Speed:	3560 RPM	
Rotation:	COUNTER CLOCKWISE - HI	
MOTOR DESCRIPTION		
Manufacturer:	SIEMENS	
Size:	2000 HP:	3600 RPM:
Frame:	5812S	
Power:	4160 VAC / 3 Ph/ 60Hz	
Heater:	120V 525 WATT	
Enclosure:	WP-II	
EQUIPMENT WEIGHT		
Structure:	5,015# est.	
Pump:	8,025#	
Motor:	8,400#	
Other:	1,960# est.	
Total:	23,400# est.	
MECHANICAL SEAL DESCRIPTION		
Manufacturer:	JOHN CRANE	
Type:	48VRS SINGLE CARTRIDGE	
Size:	Ø 4"	
COUPLING DESCRIPTION		
Coupling:	TSC METASTREAM	
Coupling Size:	SERIES-TSC	SIZE: 0500
DBSE	7"	
JOB NUMBER(S): TU13231-50576,50577		
QTY REQUIRED: 2		
TITLE: GENERAL ARRANGEMENT		
DRAWN: JG	APPVD: CL	DATE: 07/10/14
NUMBER: 110.00064		REVISION: 1
OPS-ENG-F-00-04_1	SCALE: 1:18	SHEET: 1 OF 2