
COX

Research and Technology, Inc.

ES1/LS1
DUPLEX PUMP
CONTROL PANEL

AS BUILTS

SEPTEMBER 28, 2012

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

SOLD TO:
TAG: ES1/LS1

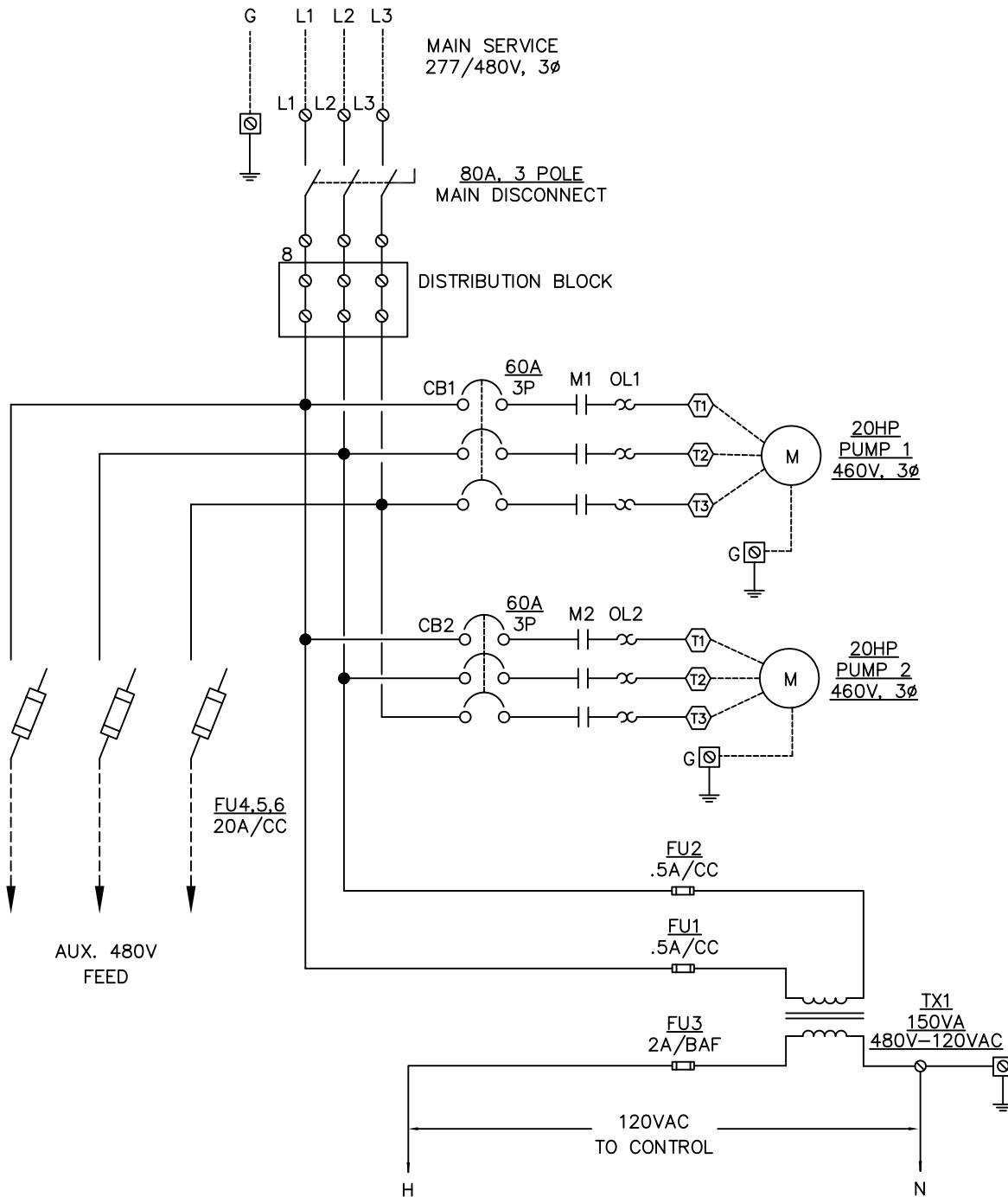
SHIP TO:

SPECIAL NOTES:

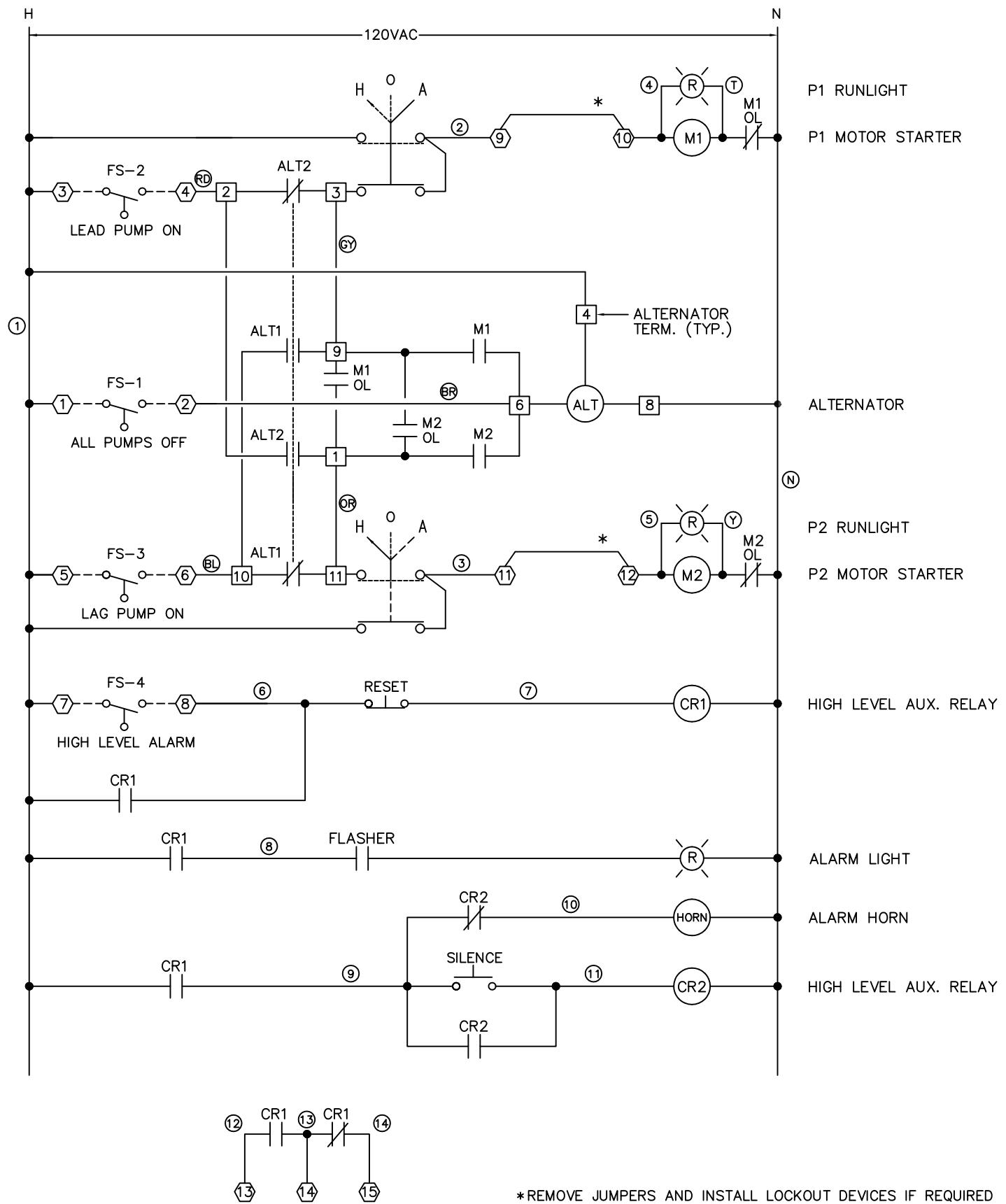
Panel Type	Duplex
Voltage	277/480
Phase/HZ	3/60
No. Motors	2
HP	20
FLA	27
Pump Manufacturer	
Type of Pump	Self-Priming
Catalog Number	
Capacitors	No
Control Voltage	120V
Control Power Transformer VA = 150	Yes
Enclosure NEMA Rating	4
Enclosure Material	Painted Steel
Enclosure Size	30x24x8
Inner Swing Panel	No
Control Sensor	Floats
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount	
Alarm Light - Panel Top Mount	X
Alarm Light - Remote	
Alarm Test Switch	
Alarm Silence Switch	X
Alarm Acknowledge Switch	X
Alternator with Lead Pump Selector Switch	X
Audible Alarm - Bell	
Audible Alarm - Horn	X
Audible Alarm - Piezzo	
Cycle Counters	
Economy Version	
Elapsed Time Meters	
Flasher	X
Green Run Lights vs. Red	
Ground Fault Receptacle	
High Temp Lights	
High Temp Pump Shutdown - Auto Reset	
High Temp Pump Shutdown - Manual Reset	
Intrinsically Safe Relays Pts	
Lightning Arrestor	
Main Disconnect with door Mt. Handle	
Panel Heater/Thermostat W =	
Phase Monitor	
Pole, Box, Seal	
Seal Fail Lights	
Seal Fail Relay - Fixed	
Seal Fail Relay - Adjustable	
Seal Fail Shutdown	
Starters - IEC	X
Starters - NEMA	
Unpowered Alarm Circuits #2	X

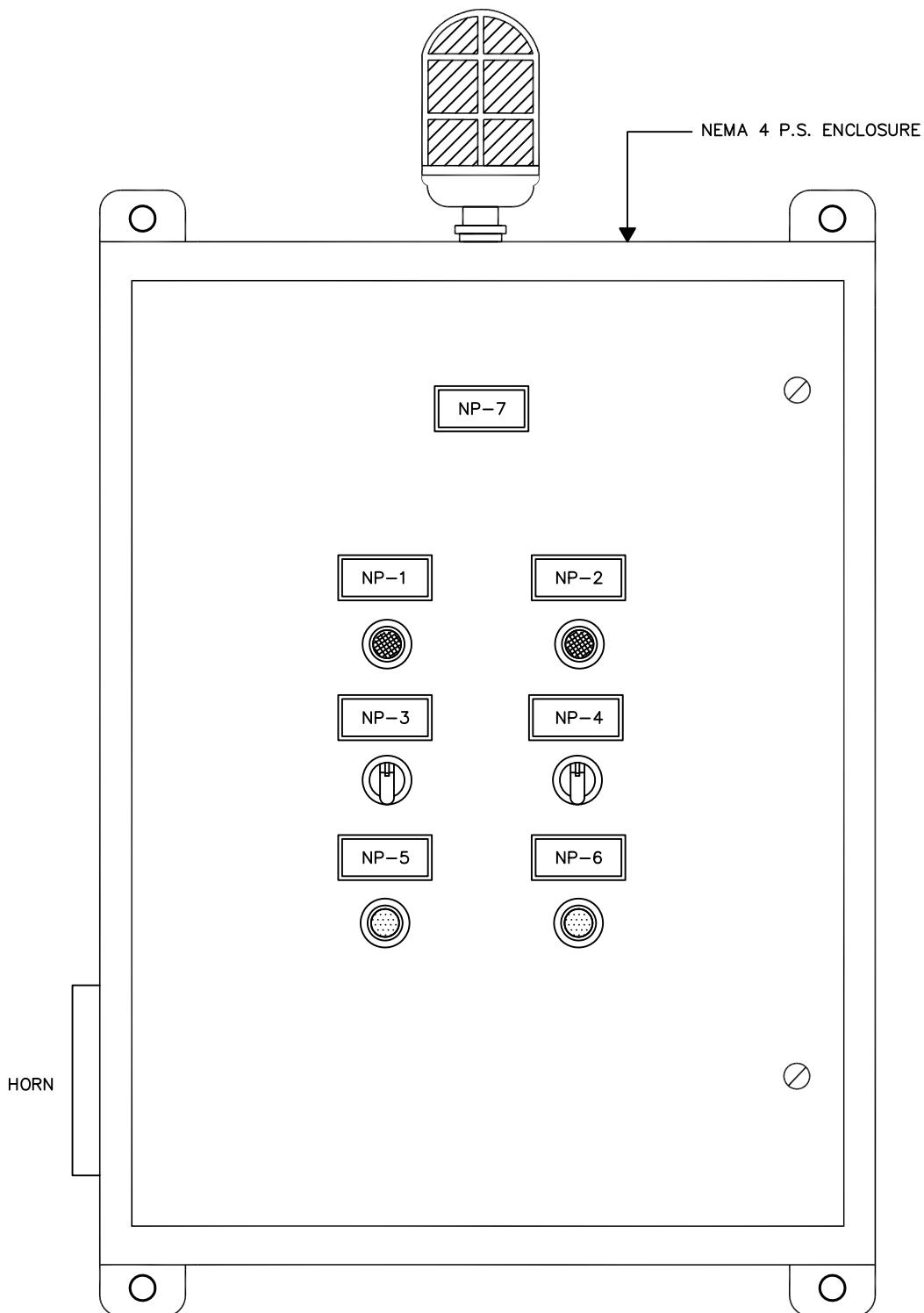
	Drawing Title					
	PANEL DESCRIPTION					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 09/21/12		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED
				T.L.	BY E. ECKER	BY DATE
	Project Title	<hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70879	PURCHASE ORDER NUMBER	
	STOLTHAVEN	COX Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1238r1	
					SHEET NUMBER 1	



	Drawing Title						
	POWER DIAGRAM						
DATE 09/21/12	REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY E. ECKER	DATE APPROVED BY DATE		
Project Title STOLTHAVEN	COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70879	PURCHASE ORDER NUMBER			
			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1238r1	SHEET NUMBER 2		



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED



VIEW OF FRONT DOOR OF PANEL

NAMEPLATE SCHEDULE

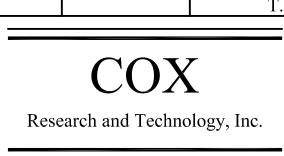
NP-1	PUMP 1/RUN
NP-2	PUMP 2/RUN
NP-3	HOA
NP-4	HOA
NP-5	ALARM SILENCE
NP-6	RESET
NP-7	ES1/LS1

NOTE:
SEWER GASES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASES.

Drawing Title ENCLOSURE							
	REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY E. ECKER	DATE APPROVED BY DATE		
Project Title STOLTHAVEN	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70879	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1238r1		
				Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER 4		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	SAGINAW	SCE-30EL2408LP	ENCLOSURE
1a	1	SAGINAW	SCE-30P24	BACKPLATE
2	1	ABB	OT80F3	DISCONNECT SWITCH
3	2	ABB	T1NO60TL	CB1,2
4	2	ABB	A26-30-10-84	MOTOR STARTER
5	2	ABB	TA25DU32	OL RELAY (24-32A)
6	3	PHOENIX	3048580	FUSE HOLDER
7	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY
8	1	SSAC	FS126RC	FLASHER
9	2	ABB	CL513R	RED LED PILOT
10	2	ABB	C3SS110B-20	HOA SWITCH
11	1	ABB	X4150PSF-1	TRANSFORMER
12	2	ABB	CP110B-11	PUSH BUTTON
13	2	IDEA	RY4SULAC120	CR1,2
14	1	CONERY	RA-A-VP100RDG	ALARM LIGHT
15	1	EDWARD SIGNAL	870P-N5	HORN
16	1	MARATHON	1323580	DISTRIBUTION BLOCK
17				
18				
19				
20				
21				
22				
23				
24				

	Drawing Title							
	BILL OF MATERIALS							
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 09/21/12			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
					T.L.	BY E. ECKER	BY	DATE
	Project Title		 COX <small>Research and Technology, Inc.</small>		PURCHASE ORDER NUMBER			
	STOLTHAVEN				P.O. Box 77808 Baton Rouge, LA 70879 Ph. (225)756-3271 Fax (225)755-1030			
								DRAWING NUMBER CP-1238r1
				SHEET NUMBER 5				