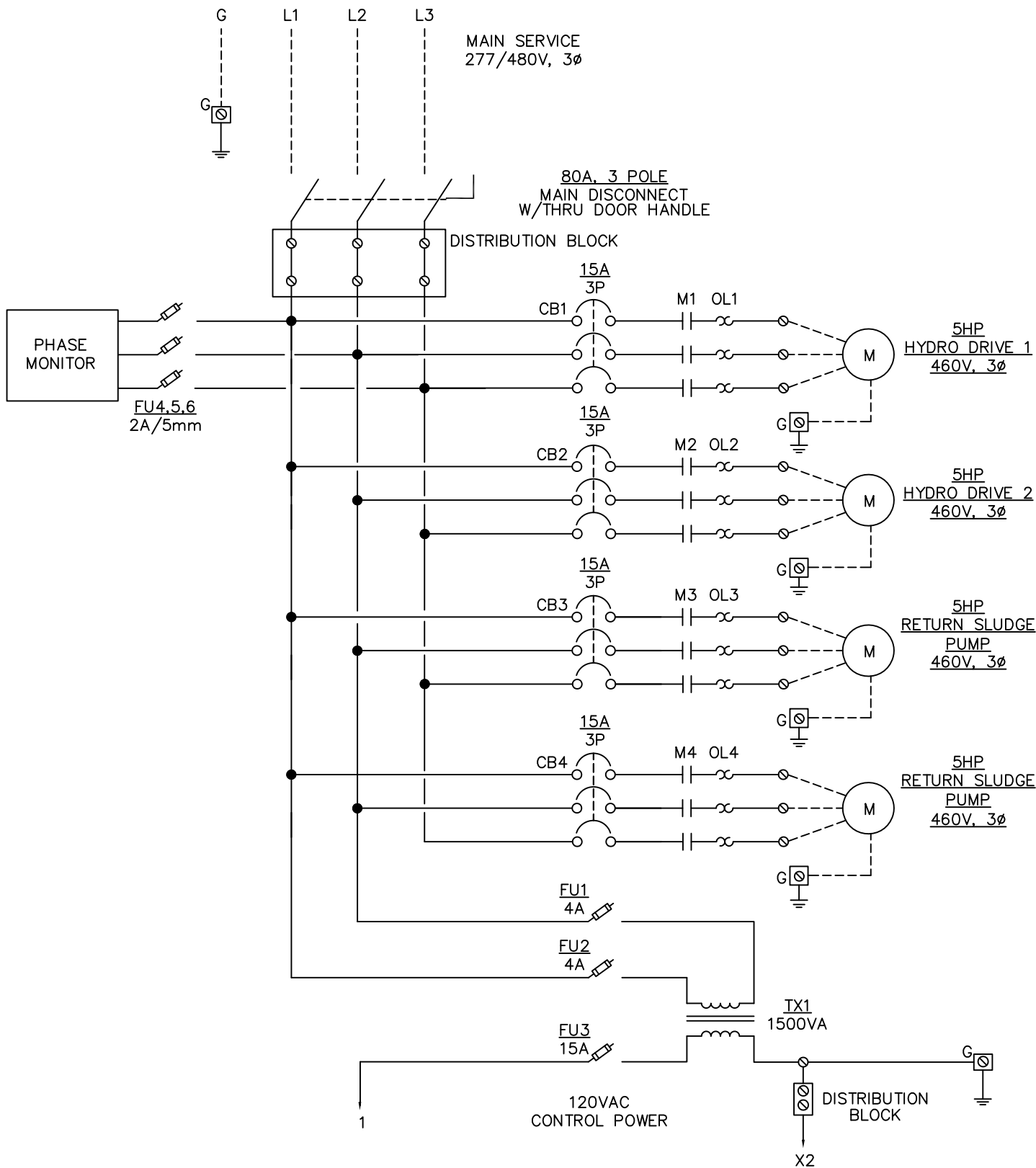


G-H Systems

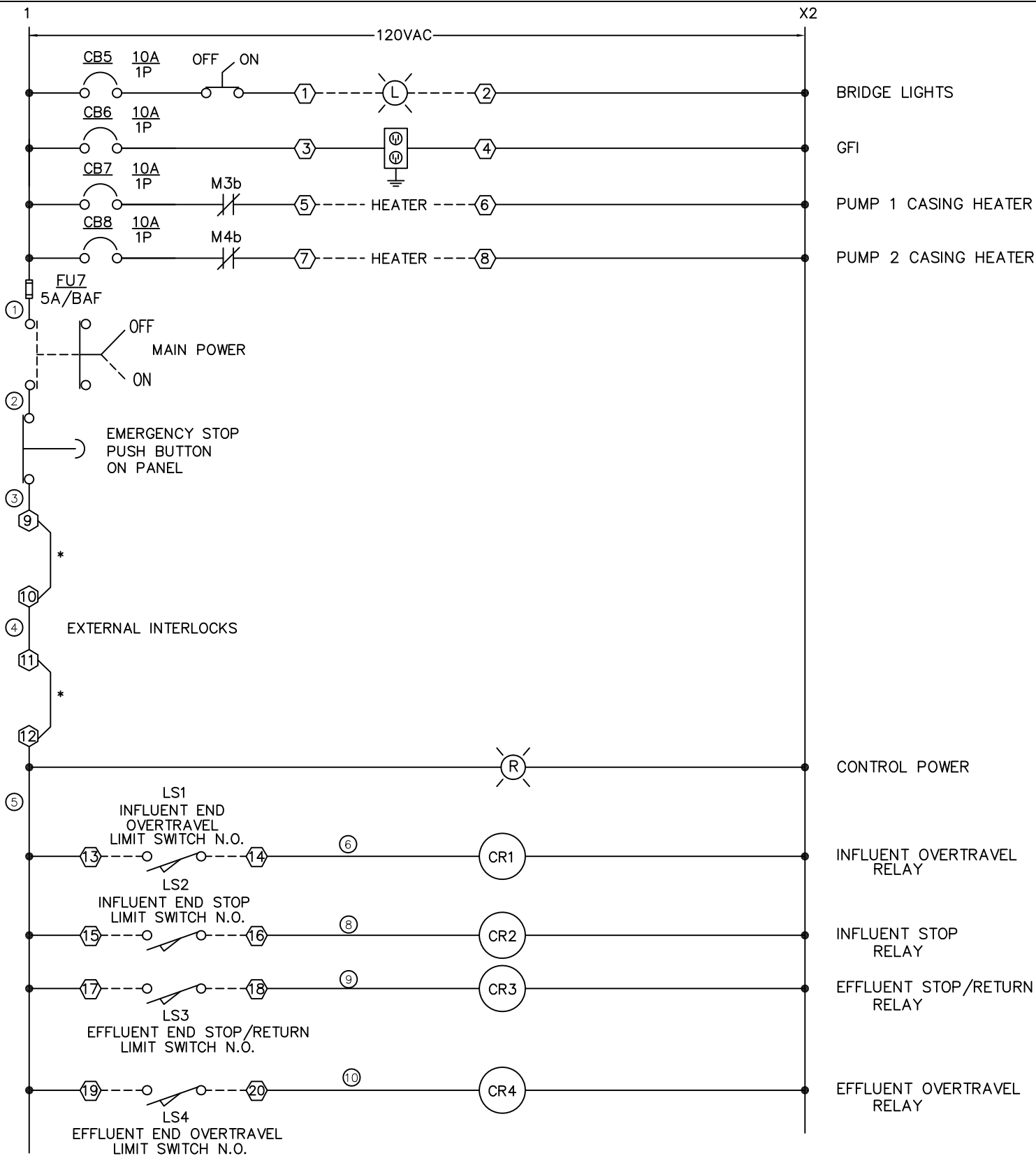
SYSTEMS
FOR WATER AND
WASTEWATER TREATMENT

CORPUS CHRISTI
CONTROL PANEL

G-H SYSTEMS, INC
2924 Brakely Drive, Unit B-4
Baton Rouge, LA. 70816
(225) 293-5288 Fax (225) 291-1482

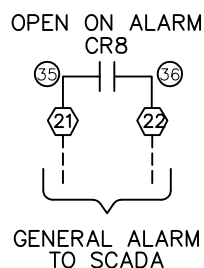
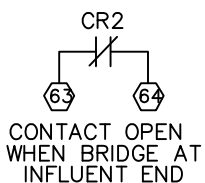
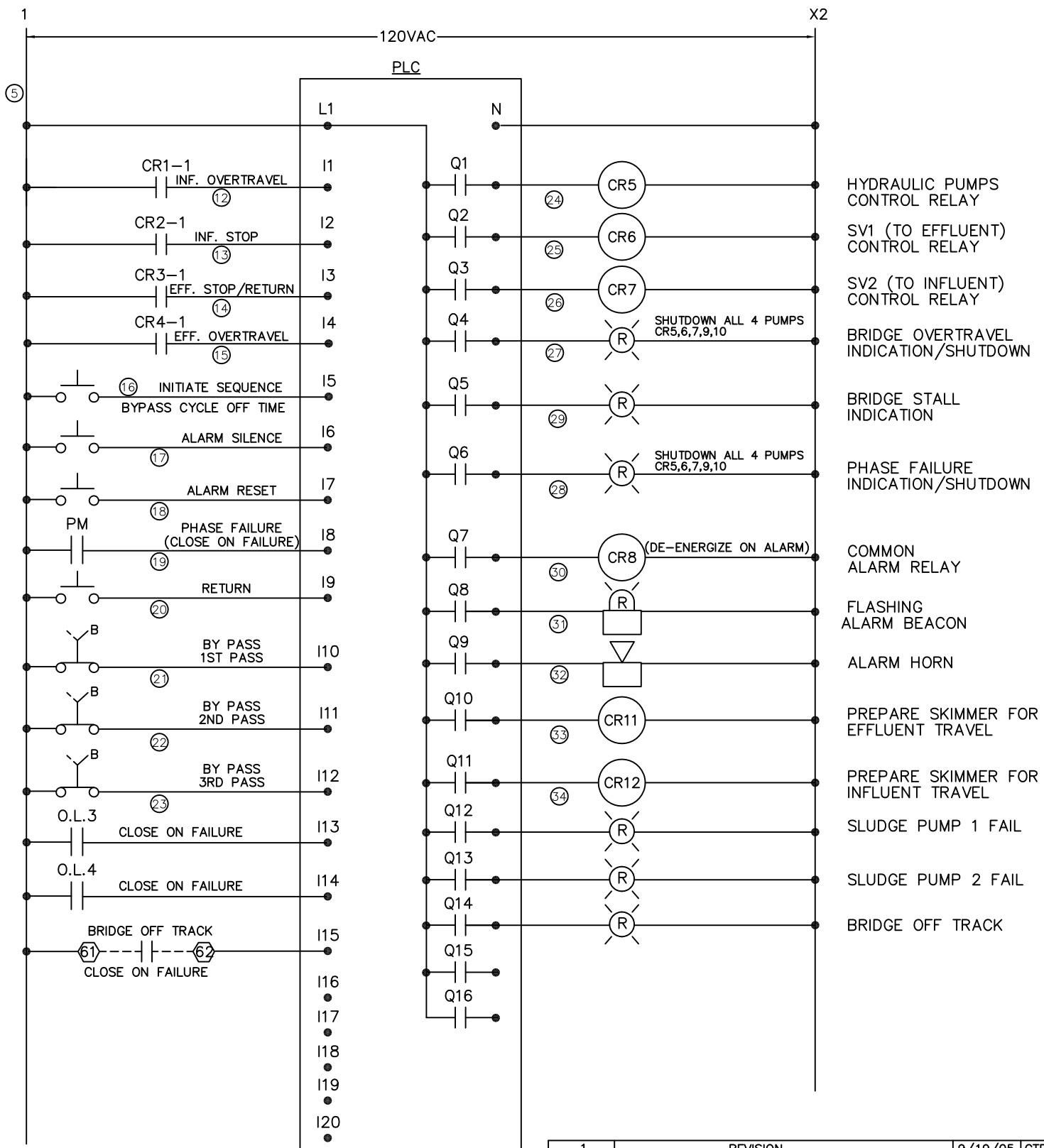


REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 1	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		

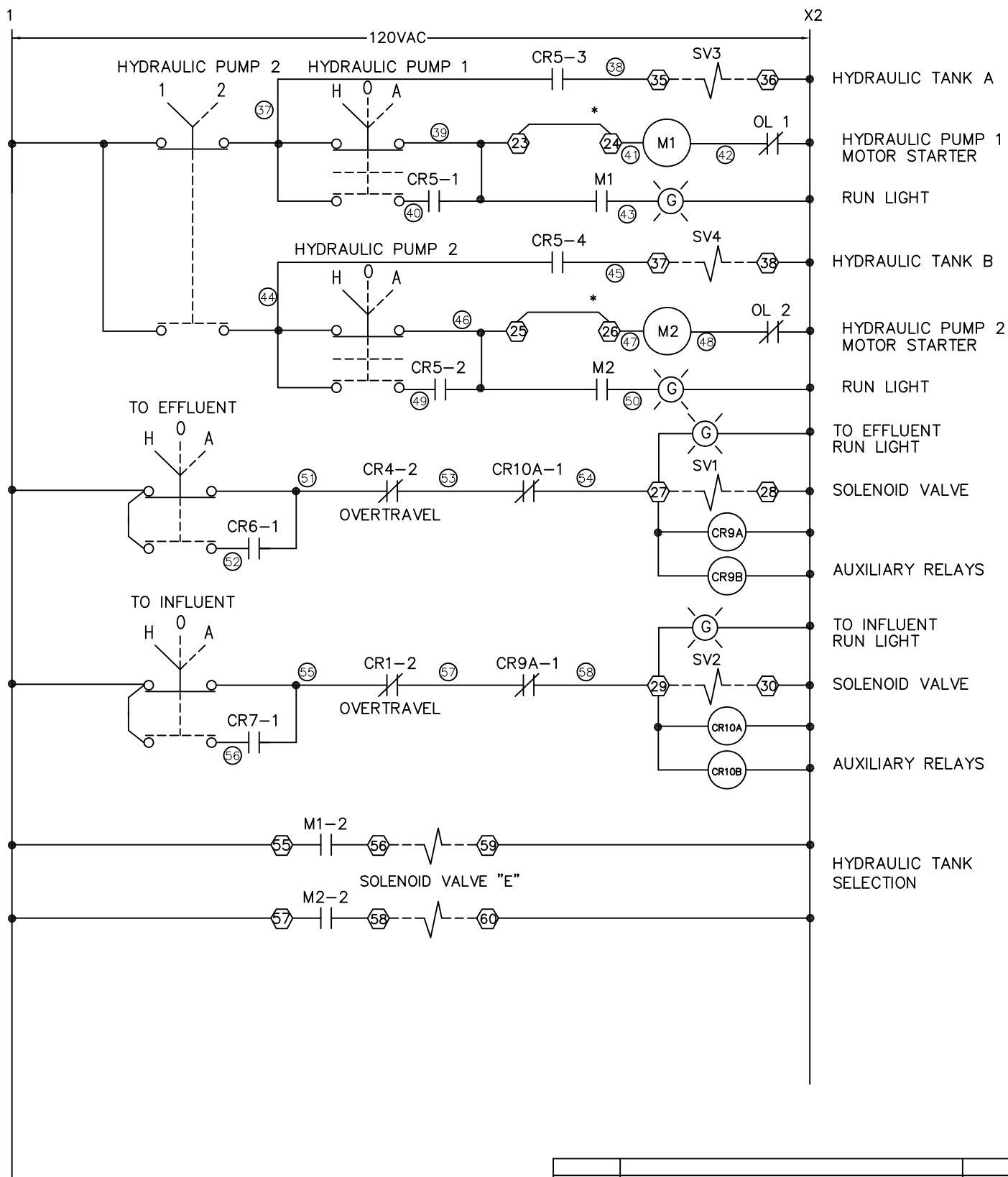


* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 2	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		

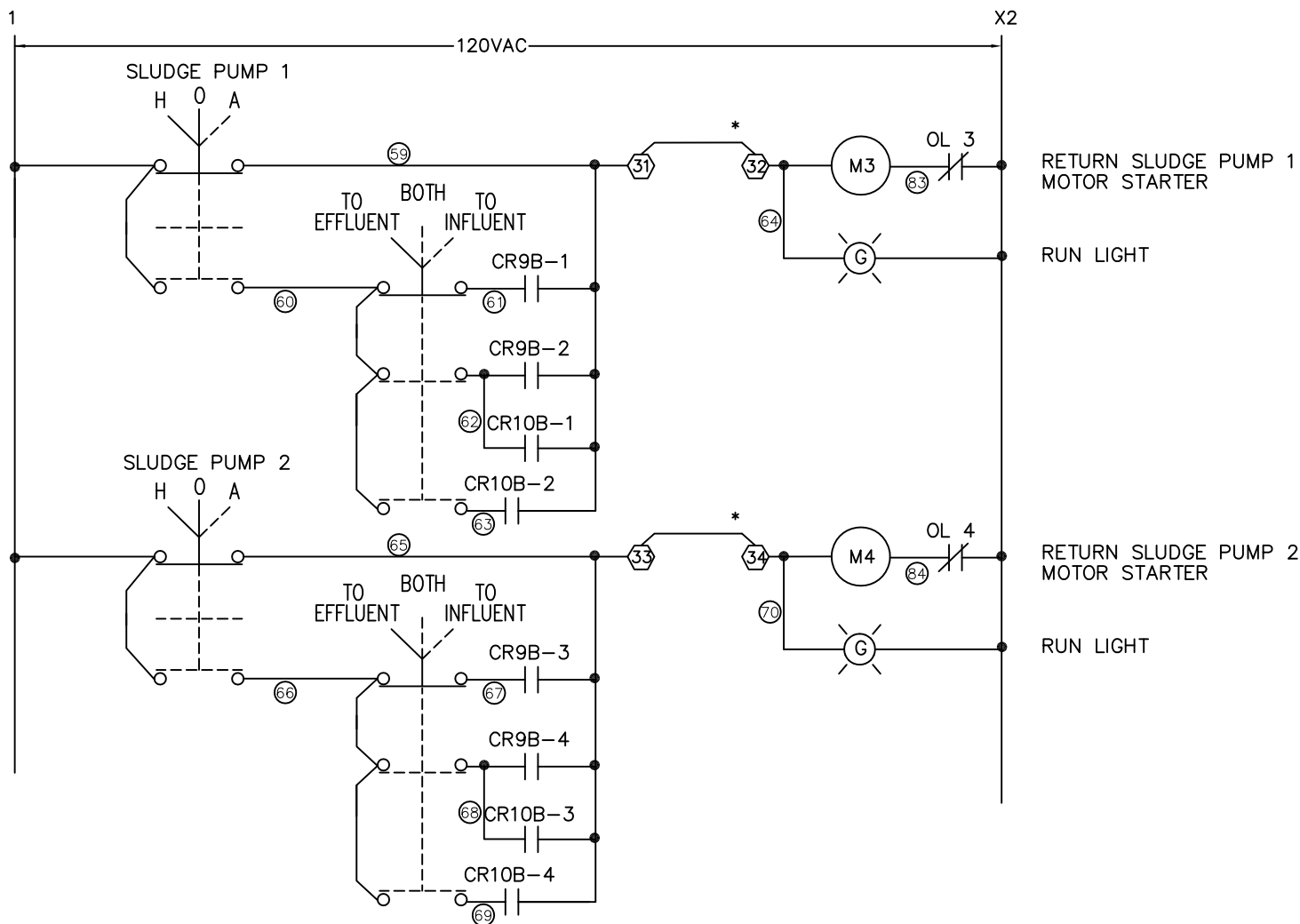


1	REVISION	9/19/05	CTR	
REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems <div>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</div>				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 3	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		
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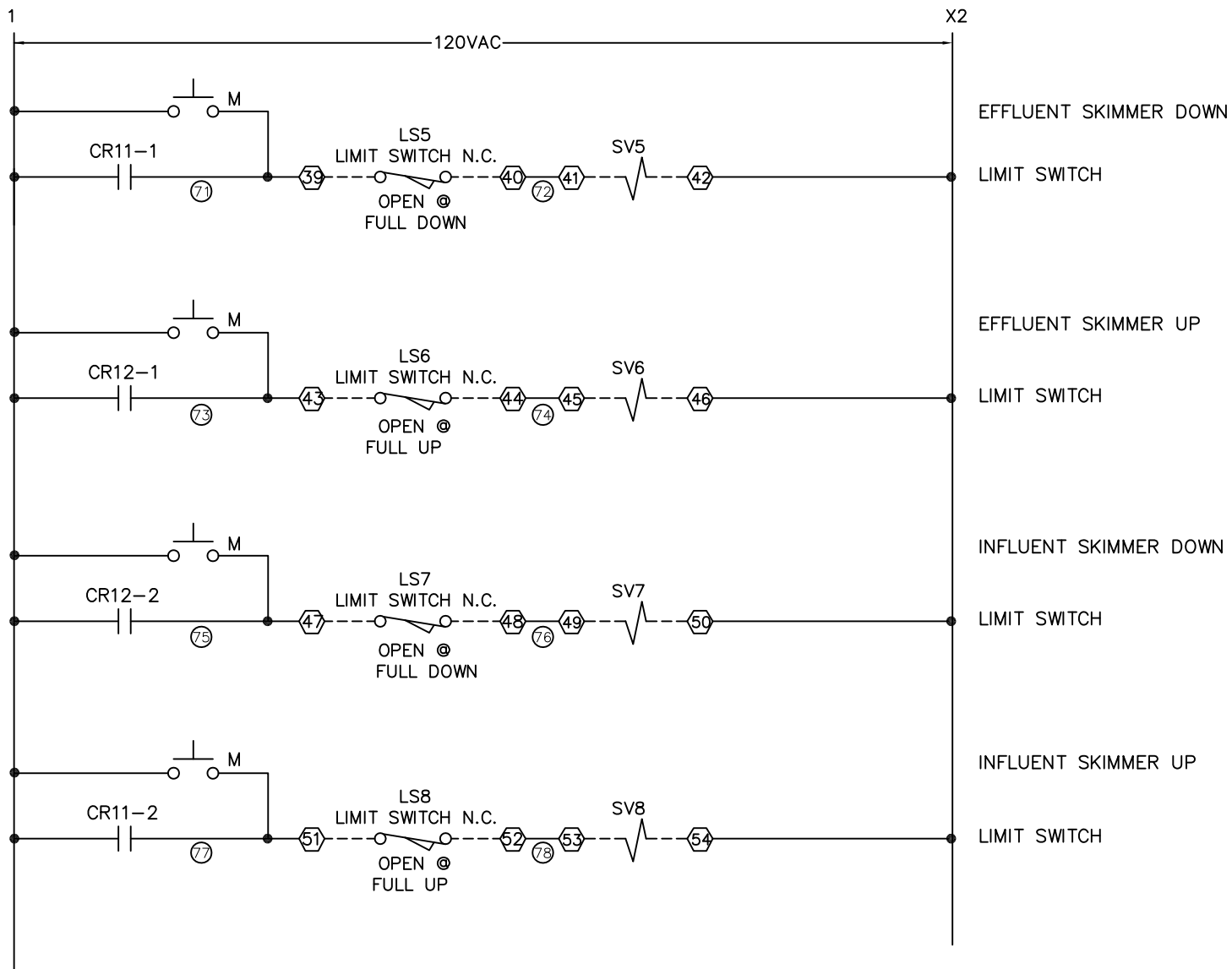
* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems				
SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 4	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems <div>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</div>				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 5	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems <small>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</small>				
2924 Brakely Drive, Unit B-4 TELEPHONE: (225) 293-5288		Baton Rouge, LA 70816 - FAX: (225) 291-1482		
<small>THIS DRAWING AND ALL INFORMATION IT CONTAINS IS THE PROPERTY OF G-H SYSTEMS, INC. REPRODUCTION, MANUFACTURE, USE OF THE DESIGN IS PERMISSIBLE ONLY WITH THE EXPRESS AUTHORIZATION OF THE EQUIPMENT MANUFACTURER.</small>				
DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 6	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		

PLC SETTINGS

FACTORY SETTINGS (ALL SETTINGS ARE ADJUSTABLE)

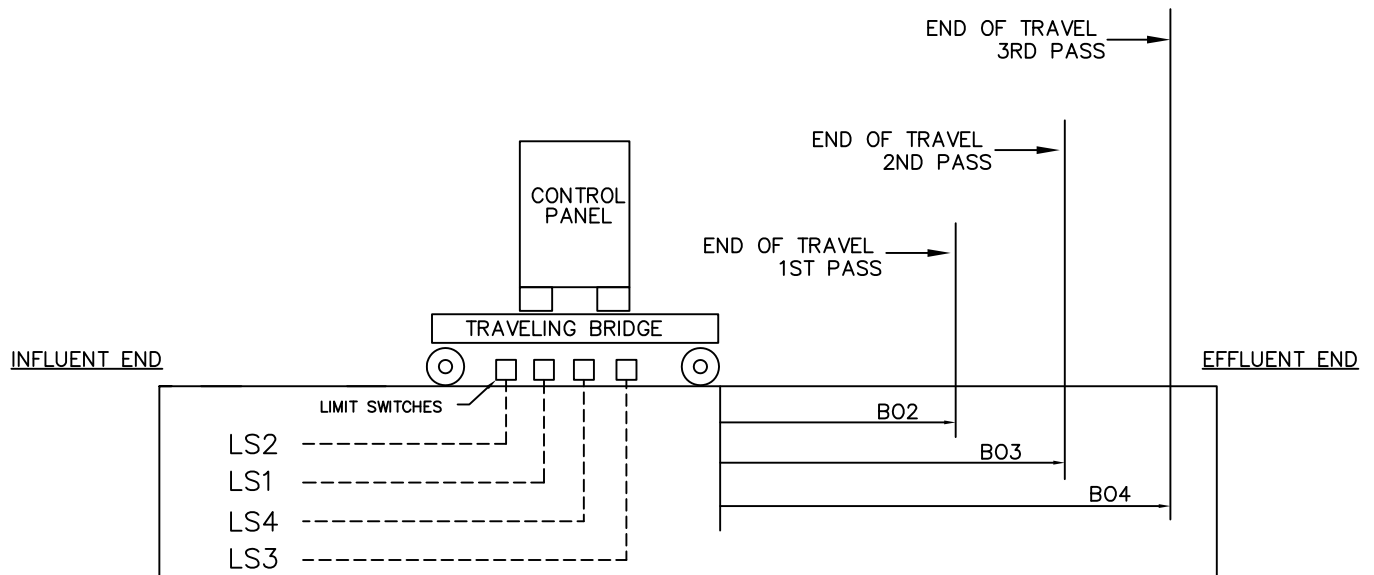
- B01 – TIME BETWEEN CYCLES (CYCLE OFF TIME)
B02 – TIME OF 1ST END OF TRAVEL DISTANCE
B03 – TIME OF 2ND END OF TRAVEL DISTANCE
B04 – TIME OF 3RD END OF TRAVEL DISTANCE
* B05 – TIME TO DEFINE BRIDGE STALL AFTER CALL TO RUN
** B06 – TIME TO DEFINE BRIDGE STALL AFTER STARTING
B07 – TIME DELAY BEFORE RETURNING TO INFLUENT END

1 MIN
3 MIN
6 MIN
8 MIN
1 MIN
60 MIN
1 MIN

00: 01h
03: 00m
06: 00m
08: 00m
01: 00m
60: 00m
01: 00m

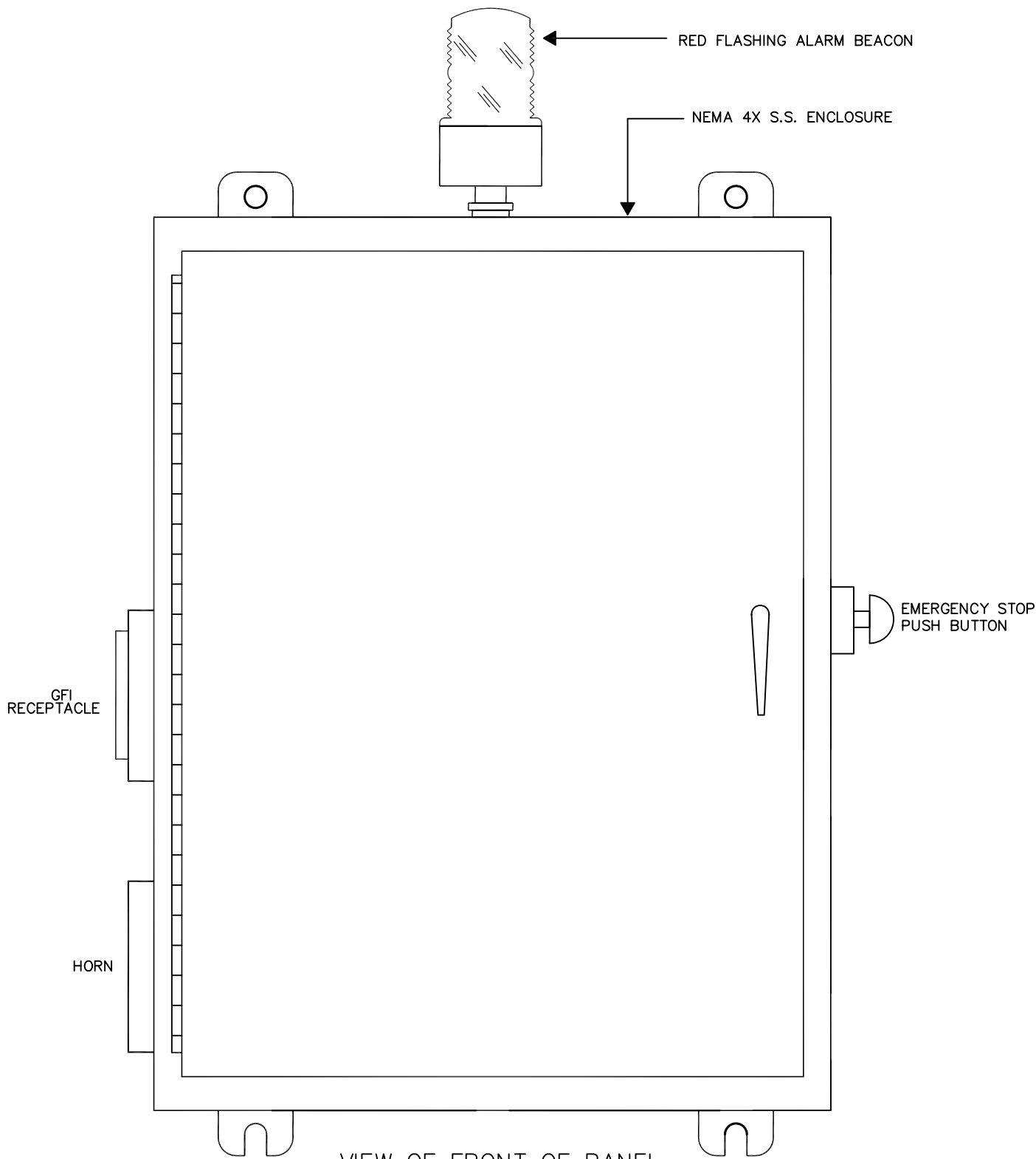
* IF BRIDGE DOES NOT MOVE FROM STOP POSITION
AT INFLUENT END IN 1 MIN. AFTER CALL TO RUN
THE BRIDGE STALL ALARM AND SYSTEM SHUTDOWN OCCURS.

** IF BRIDGE DOES NOT RETURN TO STOP POSITION
AT INFLUENT END IN 60 MIN. AFTER STARTING,
THE BRIDGE STALL ALARM AND SYSTEM SHUTDOWN OCCURS.



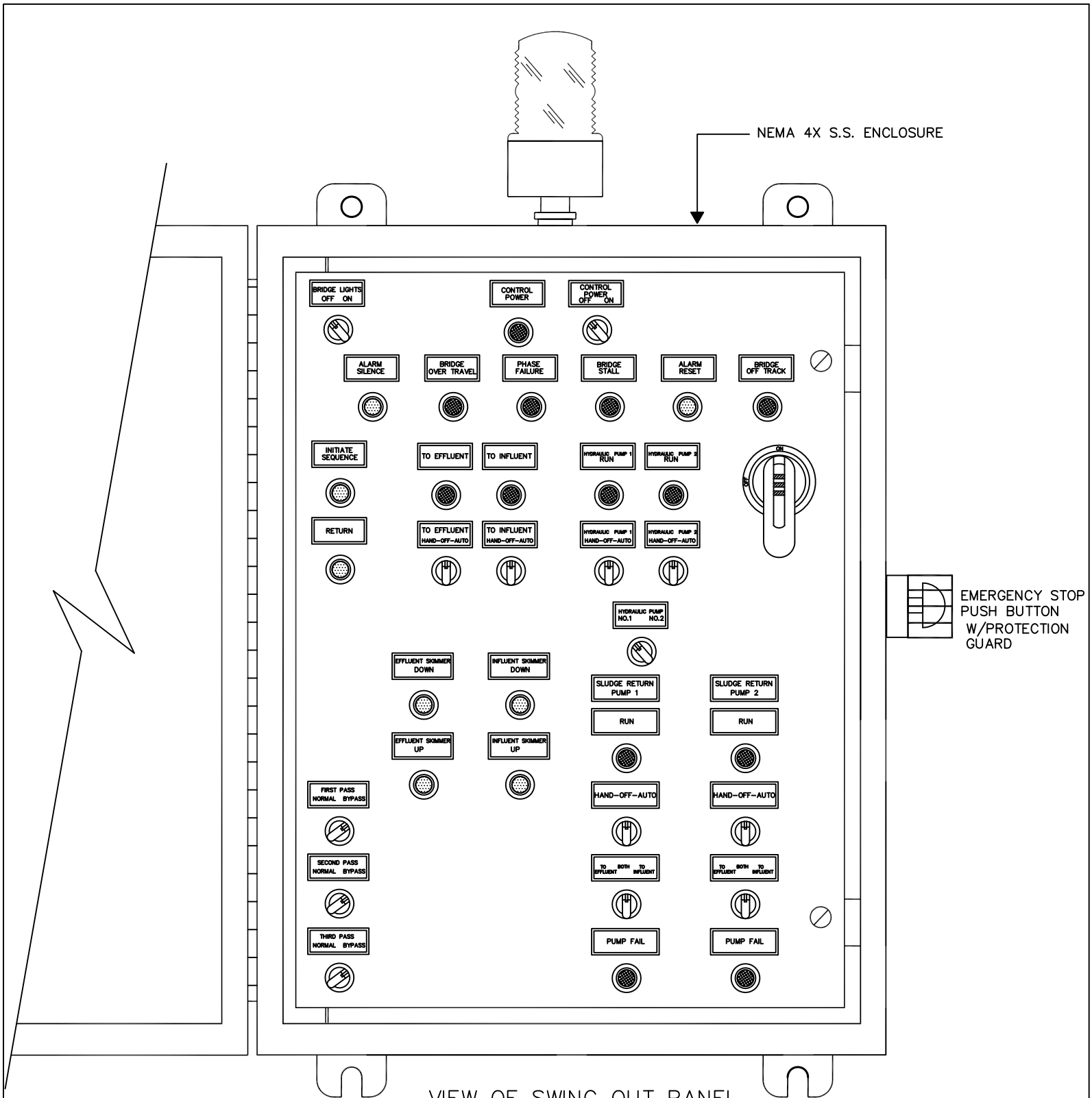
- LS1 – LIMIT SWITCH USED TO STOP BRIDGE, SHUTDOWN SYSTEM, AND SOUND ALARM
IF BRIDGE OVERTRAVEL OCCURS ON INFLUENT END.
LS2 – LIMIT SWITCH USED TO STOP BRIDGE
AND START OFF PERIOD TIMER
LS3 – LIMIT SWITCH USED TO STOP AND RETURN BRIDGE ON FULL RUN
LS4 – LIMIT SWITCH USED TO STOP BRIDGE SHUTDOWN SYSTEM AND SOUND ALARM
IF BRIDGE OVERTRAVEL OCCURS ON EFFLUENT END.

1	REVISION	9/19/05	CTR	
REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems		SYSTEMS FOR WATER AND WASTEWATER TREATMENT		
2924 Brakely Drive, Unit B-4		Baton Rouge, LA 70816		
TELEPHONE: (225) 293-5288		FAX: (225) 291-1482		
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 7	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		
				1



VIEW OF FRONT OF PANEL

REV. NO.	DESCRIPTION	DATE	DRN	CHK
<i>G-H Systems</i> <small>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</small>				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
<small>THIS DRAWING AND ALL INFORMATION IT CONTAINS IS THE PROPERTY OF G-H SYSTEMS, INC. REPRODUCTION, MANUFACTURE, USE OF THE DESIGN IS PERMISSIBLE ONLY WITH THE EXPRESS-ED AUTHORIZATION OF THE EQUIPMENT MANUFACTURER.</small>				
DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 8	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		




VIEW OF SWING OUT PANEL

REV. NO.	DESCRIPTION	DATE	DRN	CHK	
<div><div><i>G-H Systems</i></div><div>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</div></div>					
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482					
<div>THIS DRAWING AND ALL INFORMATION IT CONTAINS IS THE PROPERTY OF G-H SYSTEMS, INC. REPRODUC- TION, MANUFACTURE, USE OF THE DESIGN IS PERMISSIBLE ONLY WITH THE EXPRESS- ED AUTHORIZATION OF THE EQUIPMENT MANUFACTURER.</div>					
		DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 9	REV.
		APPV'D. BY:	DATE:		1
		SCALE: N.T.S.	JOB NO:		
		FILE:	DWG. NO:		

BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S483612N4X	ENCLOSURE
1a	1	EBE	4836P	BACKPLATE
1b	1	EBE	A4836SP	DEAD FRONT
2	1	ABB	OT63E3	DISCONNECT SWITCH
3	4	ABB	A16-30-10-84	MS1-4
4	4	ABB	TA25DU8.5	OL1-4 (6.0-8.5A)
5	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
6	1	SSAC	PLMU-11	PHASE MONITOR
7	1	SQUARE D	9070T1500D1	TRANSFORMER
8	2	SQUARE D	9070TFSC-2	FINGER PROTECTION COVER
9	4	SQUARE D	QOU110	CB5-8
10	3	A-B	800H-HR2A	2 POSITION SWITCH
11	1	A-B	800H-FRXTQ10RA1	EMERGENCY PUSH BUTTON
12	8	A-B	800H-AR2A	PUSH BUTTON
13	6	A-B	800H-QR10R	RED PILOT LIGHT
14	6	A-B	800H-QR10G	GREEN PILOT LIGHT
15	2	A-B	800H-JR2KD7	3 POSITION SWITCH
16	6	A-B	800H-JR2A	HOA SWITCH
17	1	A-B	800T-N209RE1	E-STOP BUTTON
18	15	IDEC	RU4S 110A	CONTROL RELAYS
19	1	TOMAR	490S-120R	STROBE
20	1	EDWARDS	870P-N5	HORN
21	4	ABB	S1N015TL	CB1,2,3,4
22	1	SIEMENS	230RC	PLC
23	3	SIEMENS	DM8230R	EXPANSION MODULE
24	1	ABB	OHB65L5	HANDLE
25	1	ABB	EXP5X265	SHAFT

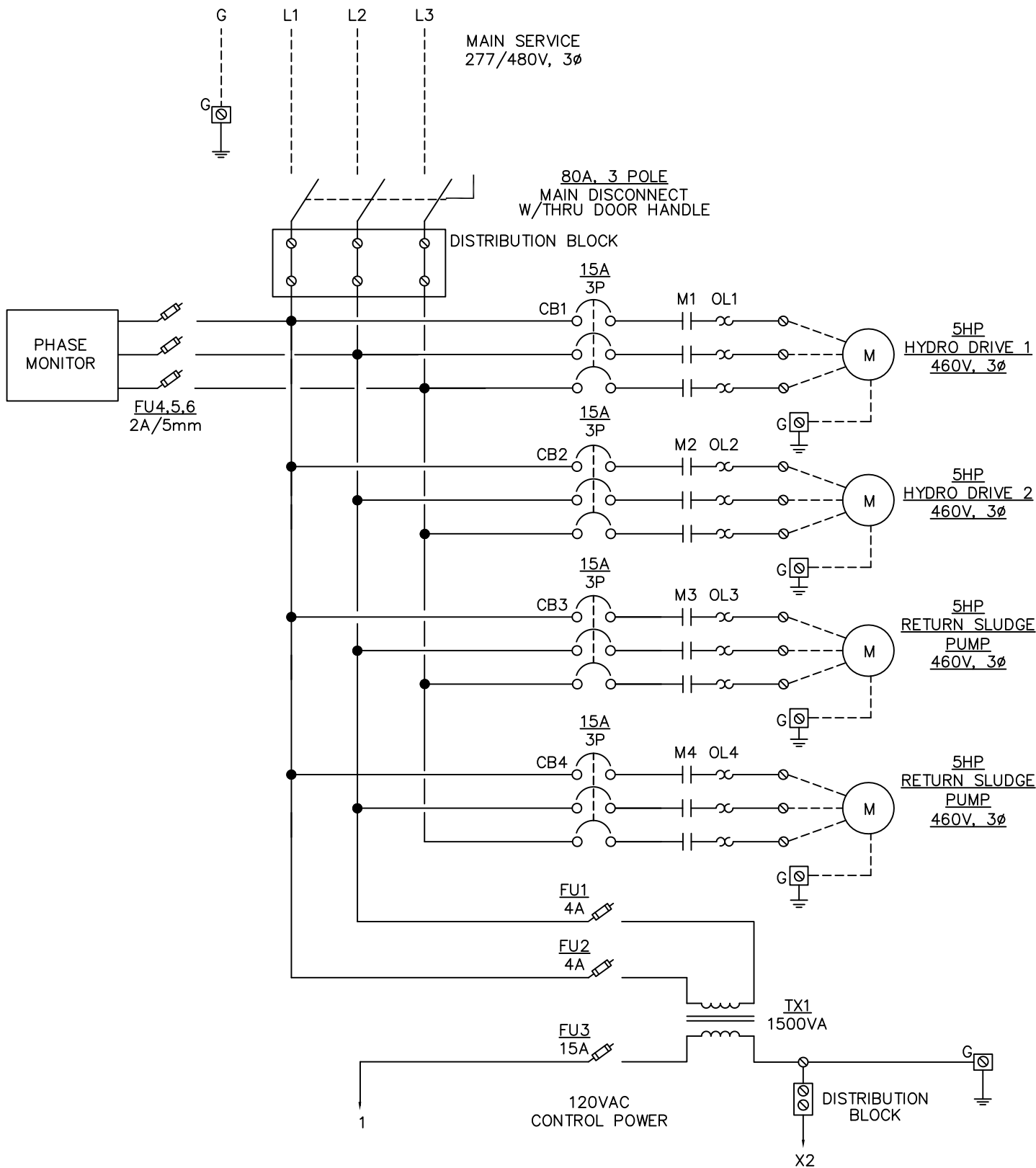
1	REVISION	9/19/05	CTR	
REV. NO.	DESCRIPTION	DATE	DRN	CHK
		<small>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</small>		
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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		DRAWN BY: C.RACHAL	DATE: 9/18/03	SHT 10
		APPV'D. BY:	DATE:	REV.
		SCALE: N.T.S.	JOB NO:	1
		FILE:	DWG. NO:	

G-H Systems

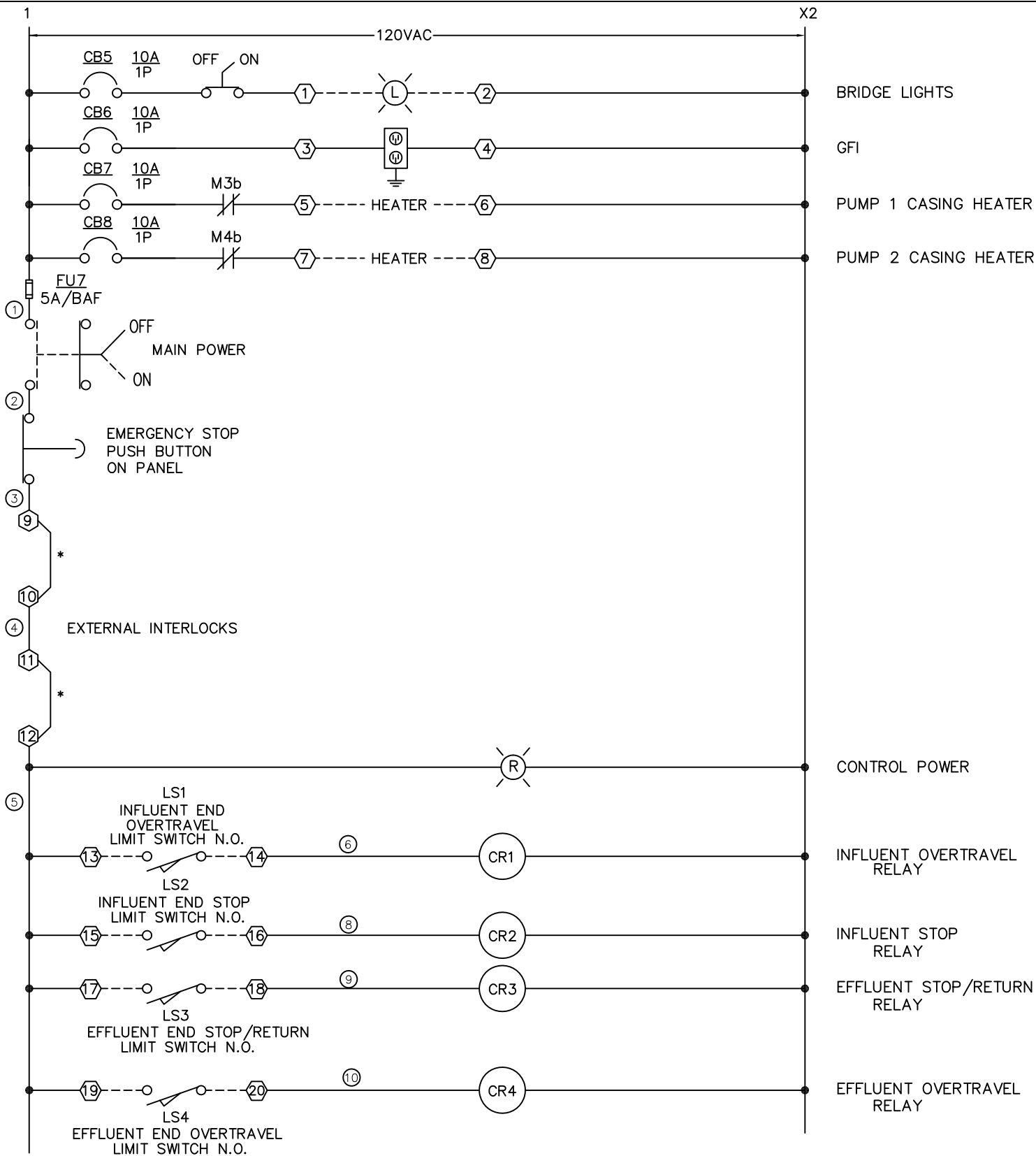
SYSTEMS
FOR WATER AND
WASTEWATER TREATMENT

CORPUS CHRISTI
CONTROL PANEL

G-H SYSTEMS, INC
2924 Brakely Drive, Unit B-4
Baton Rouge, LA. 70816
(225) 293-5288 Fax (225) 291-1482

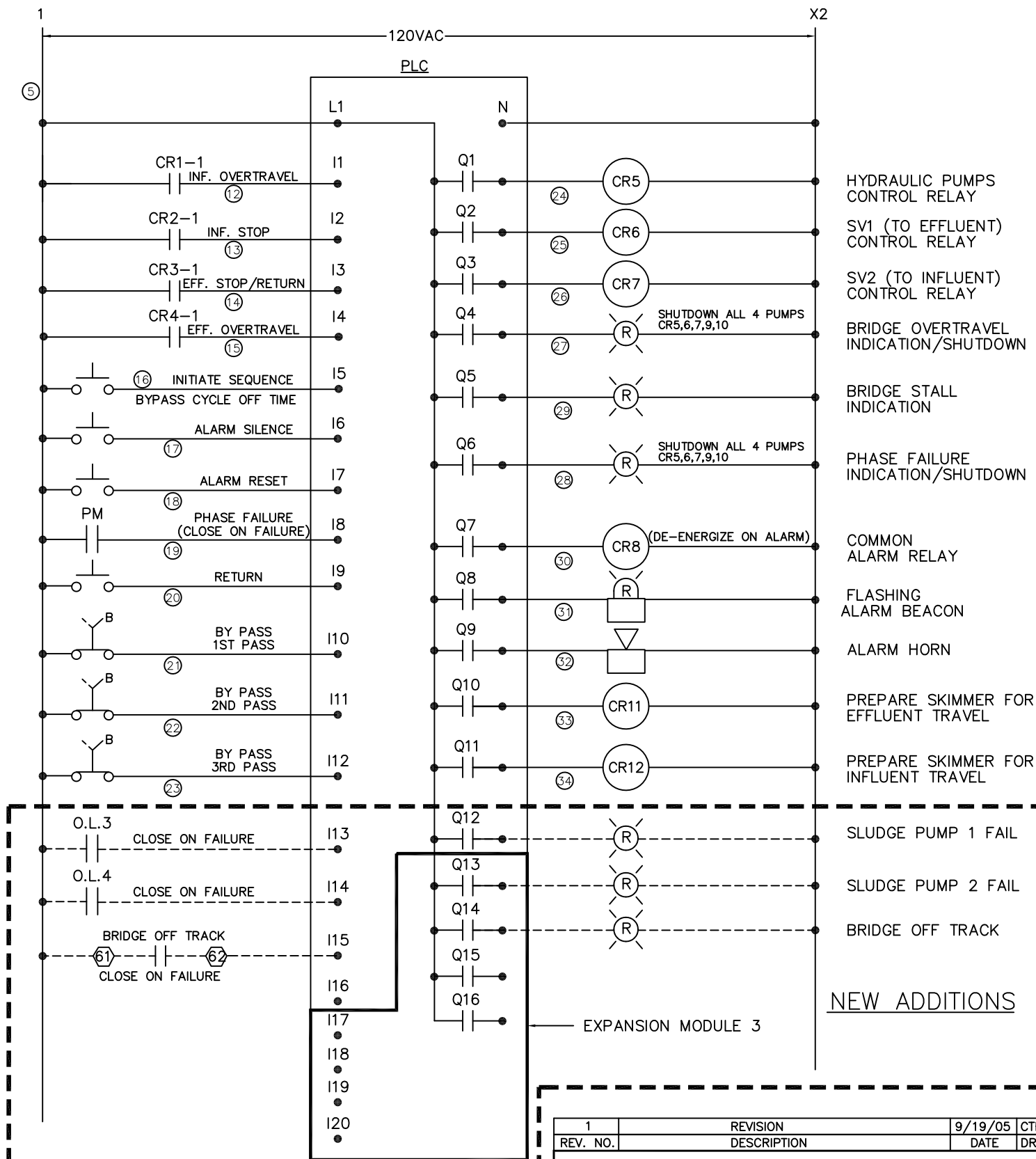


REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT 2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 1	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		

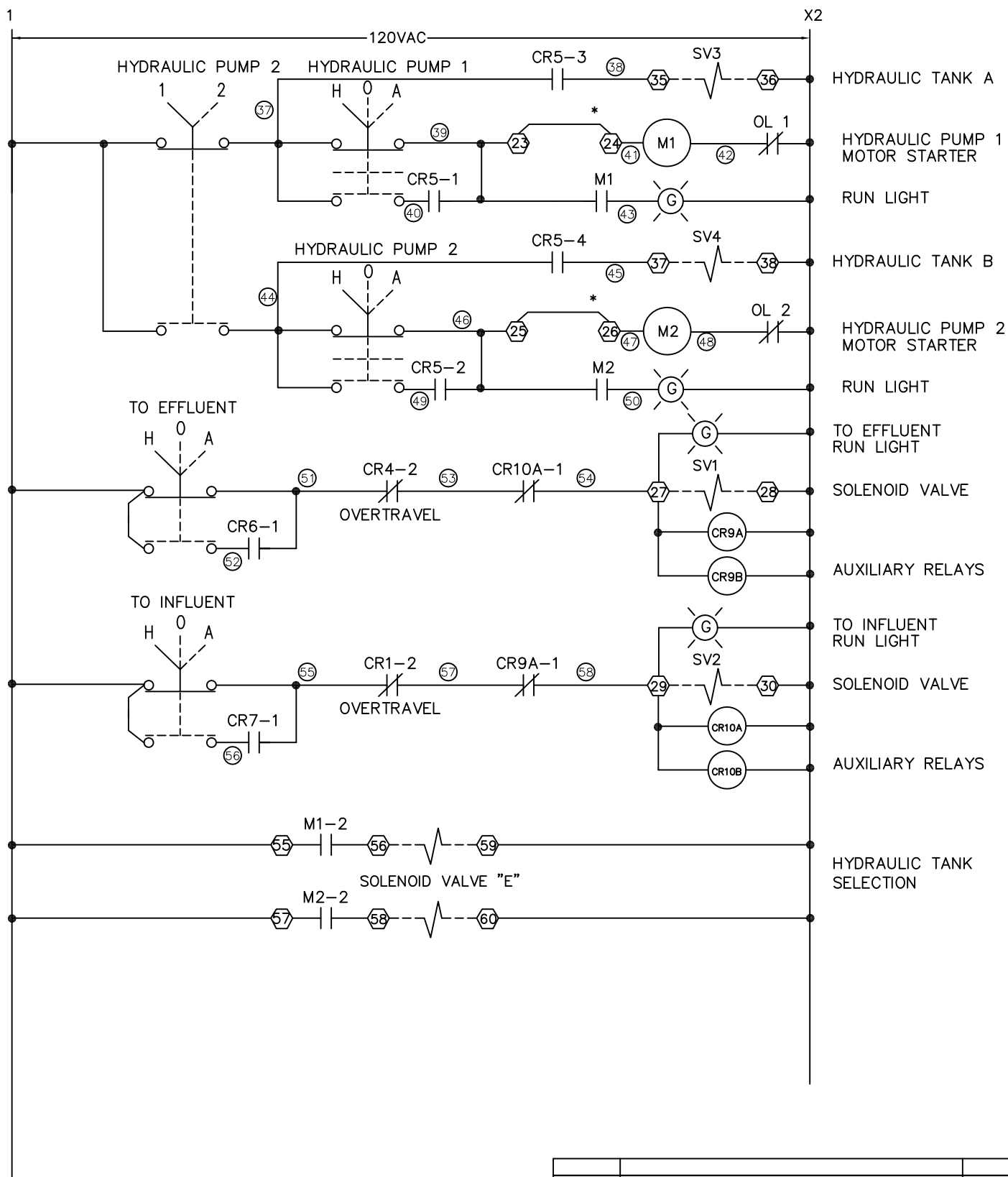


* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems				
SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 2	REV.
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FILE:		DWG. NO:		

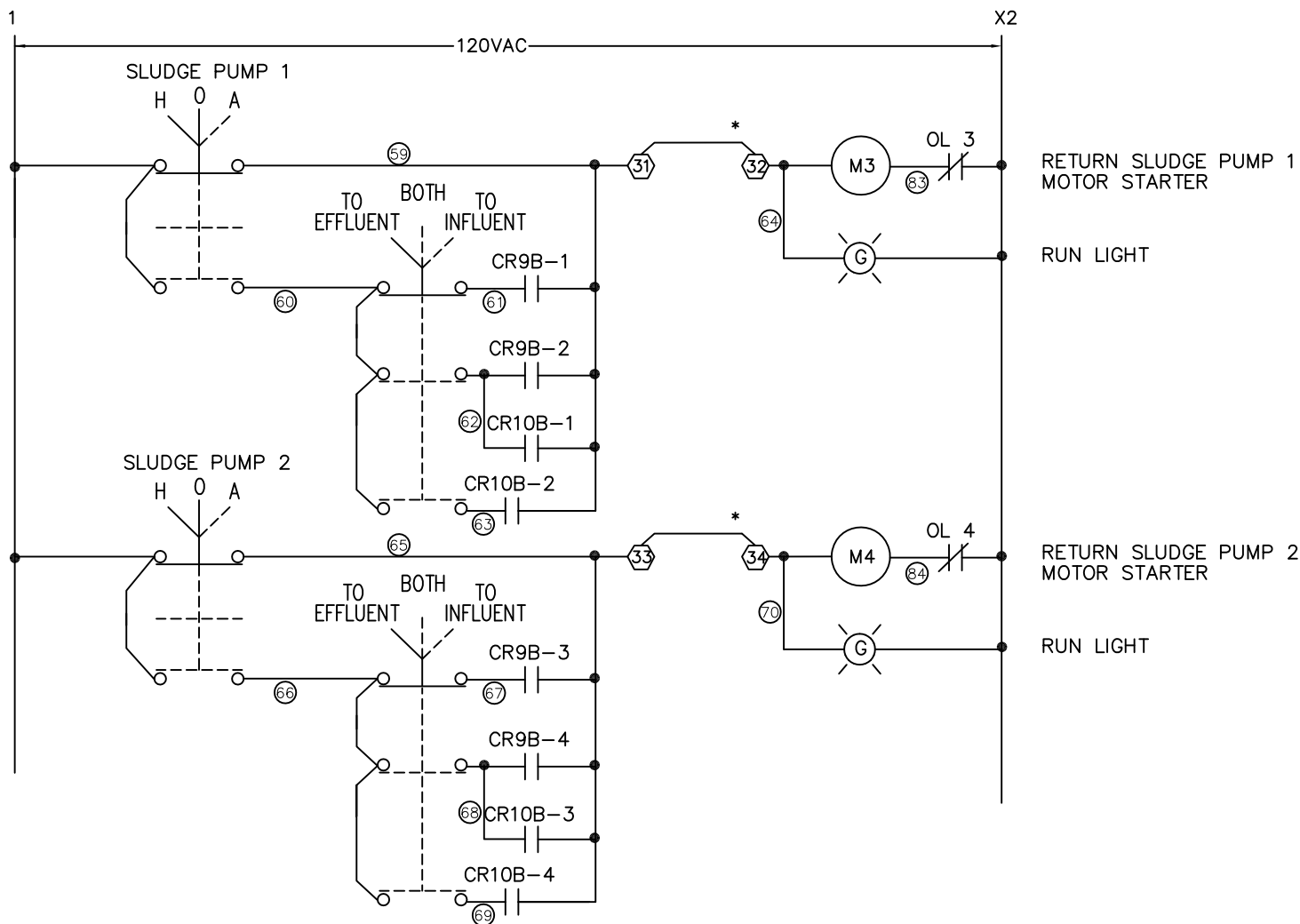


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REV. NO.	DESCRIPTION	DATE	DRN	CHK
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 3	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		
				1



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems				
SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
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APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		



* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems <div>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</div>				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 5	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		

CP-1824

PLC SETTINGS

FACTORY SETTINGS (ALL SETTINGS ARE ADJUSTABLE)

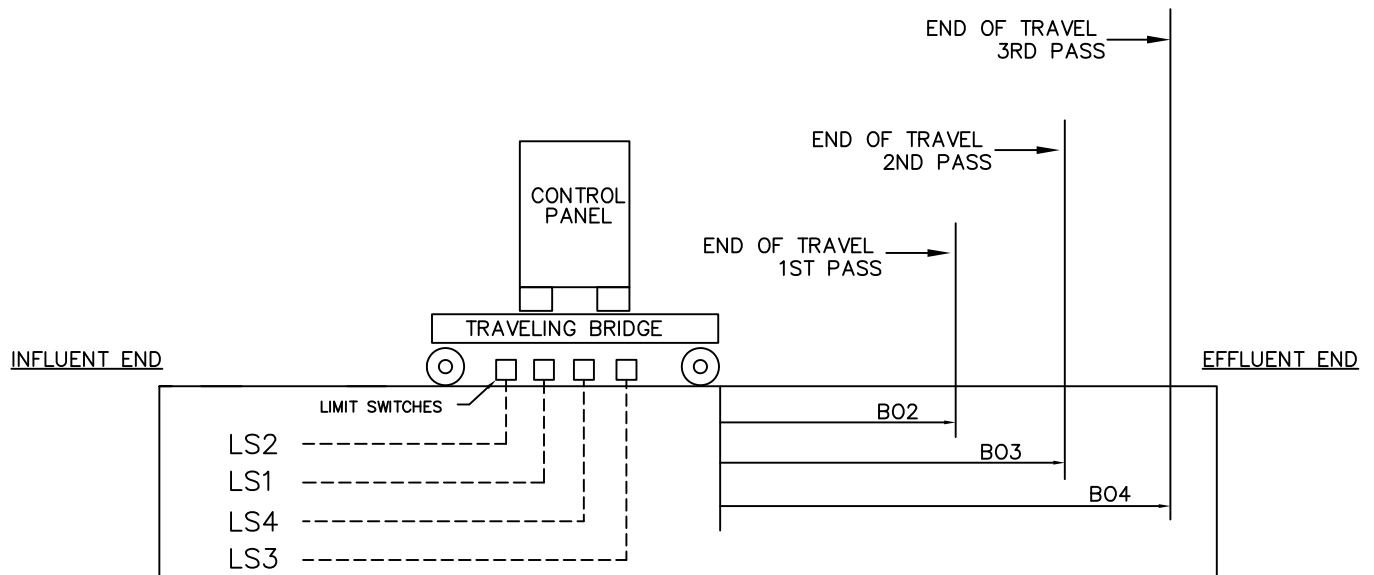
- B01 – TIME BETWEEN CYCLES (CYCLE OFF TIME)
B02 – TIME OF 1ST END OF TRAVEL DISTANCE
B03 – TIME OF 2ND END OF TRAVEL DISTANCE
B04 – TIME OF 3RD END OF TRAVEL DISTANCE
* B05 – TIME TO DEFINE BRIDGE STALL AFTER CALL TO RUN
** B06 – TIME TO DEFINE BRIDGE STALL AFTER STARTING
B07 – TIME DELAY BEFORE RETURNING TO INFLUENT END

1 MIN
3 MIN
6 MIN
8 MIN
1 MIN
60 MIN
1 MIN

00: 01h
03: 00m
06: 00m
08: 00m
01: 00m
60: 00m
01: 00m

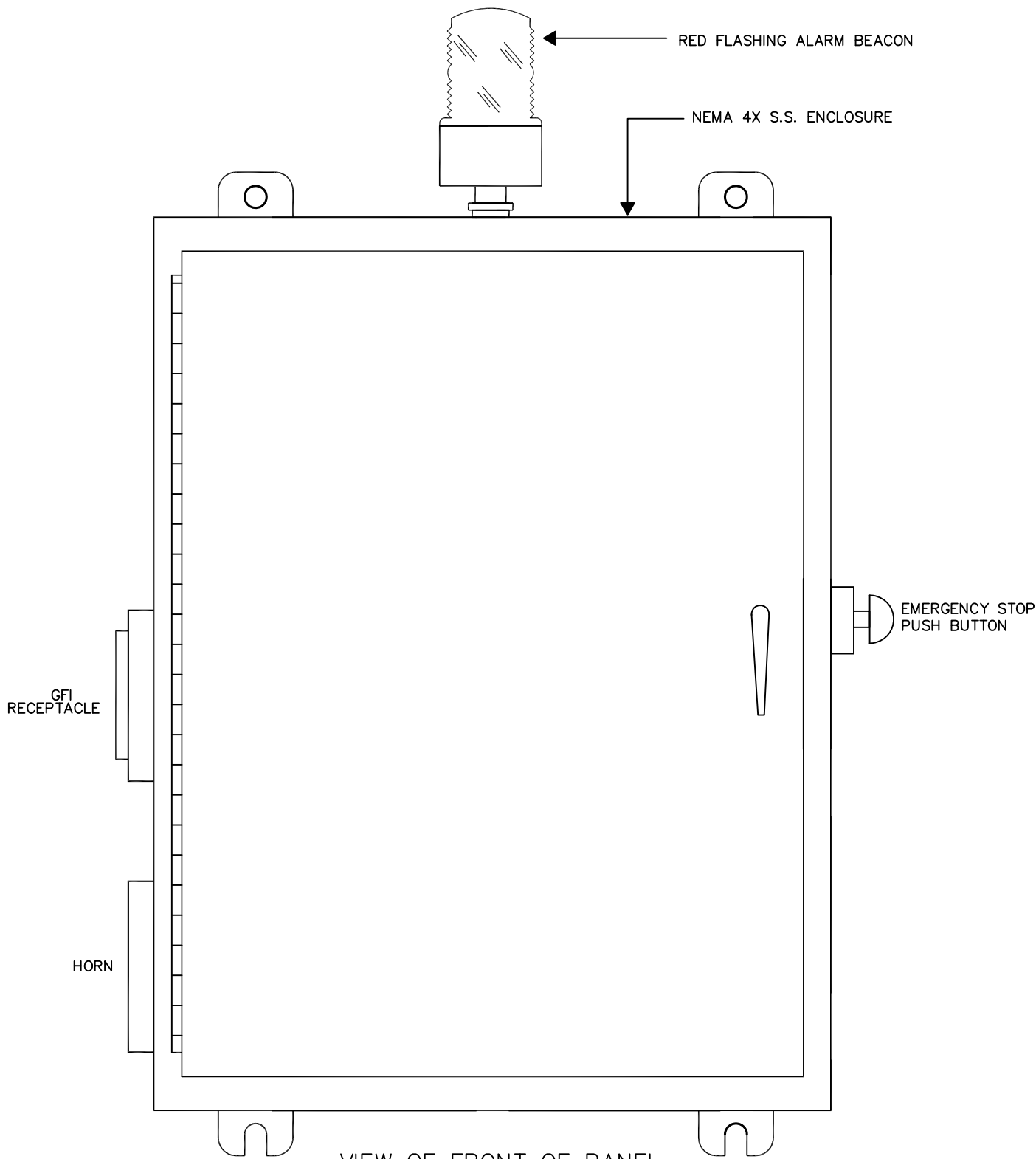
* IF BRIDGE DOES NOT MOVE FROM STOP POSITION
AT INFLUENT END IN 1 MIN. AFTER CALL TO RUN
THE BRIDGE STALL ALARM AND SYSTEM SHUTDOWN OCCURS.

** IF BRIDGE DOES NOT RETURN TO STOP POSITION
AT INFLUENT END IN 60 MIN. AFTER STARTING,
THE BRIDGE STALL ALARM AND SYSTEM SHUTDOWN OCCURS.



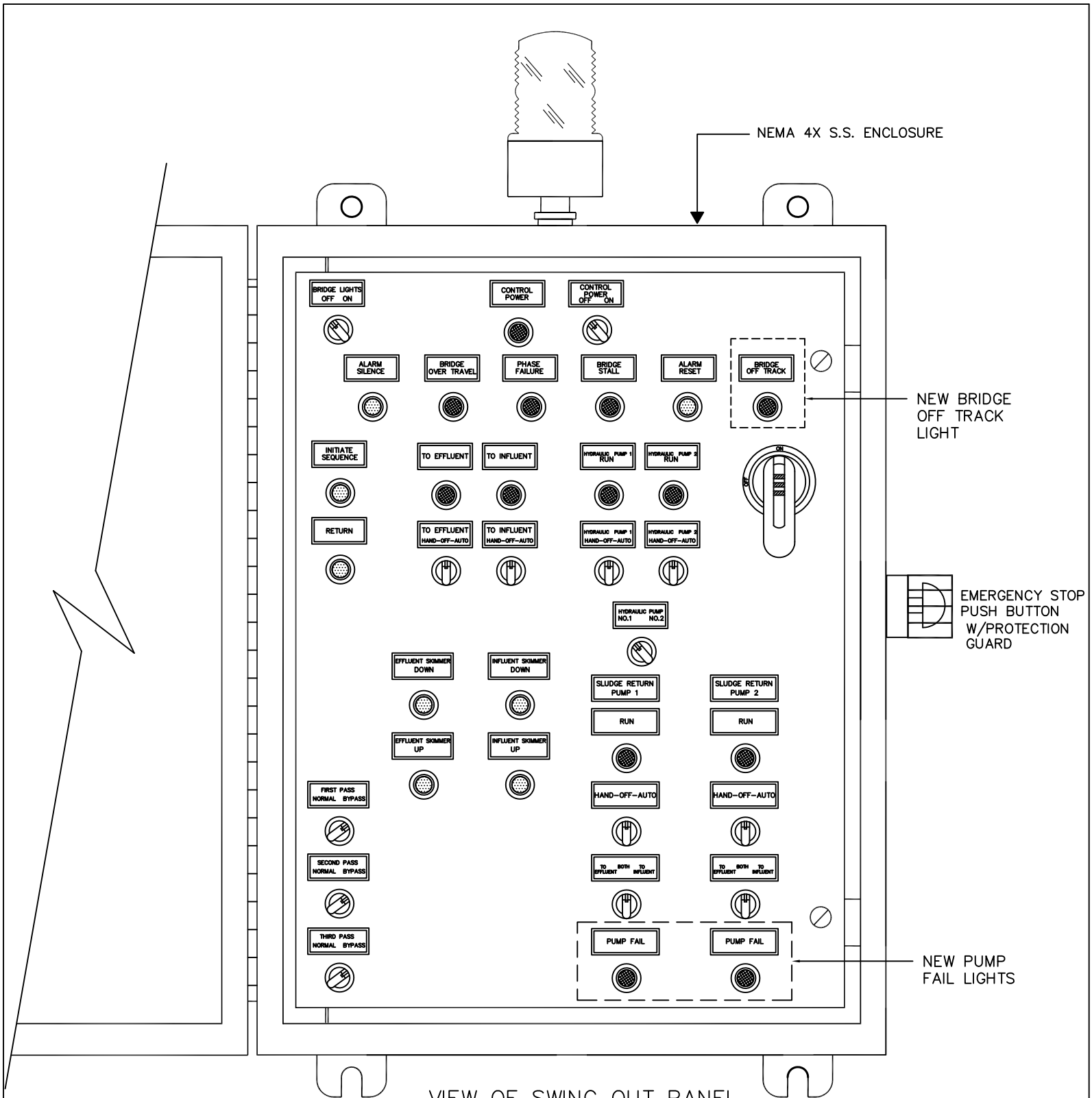
- LS1 – LIMIT SWITCH USED TO STOP BRIDGE, SHUTDOWN SYSTEM, AND SOUND ALARM
IF BRIDGE OVERTRAVEL OCCURS ON INFLUENT END.
LS2 – LIMIT SWITCH USED TO STOP BRIDGE
AND START OFF PERIOD TIMER
LS3 – LIMIT SWITCH USED TO STOP AND RETURN BRIDGE ON FULL RUN
LS4 – LIMIT SWITCH USED TO STOP BRIDGE SHUTDOWN SYSTEM AND SOUND ALARM
IF BRIDGE OVERTRAVEL OCCURS ON EFFLUENT END.

1	REVISION	9/19/05	CTR	
REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems		SYSTEMS FOR WATER AND WASTEWATER TREATMENT		
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 7	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		1



VIEW OF FRONT OF PANEL

REV. NO.	DESCRIPTION	DATE	DRN	CHK
<i>G-H Systems</i> <small>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</small>				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 8	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		




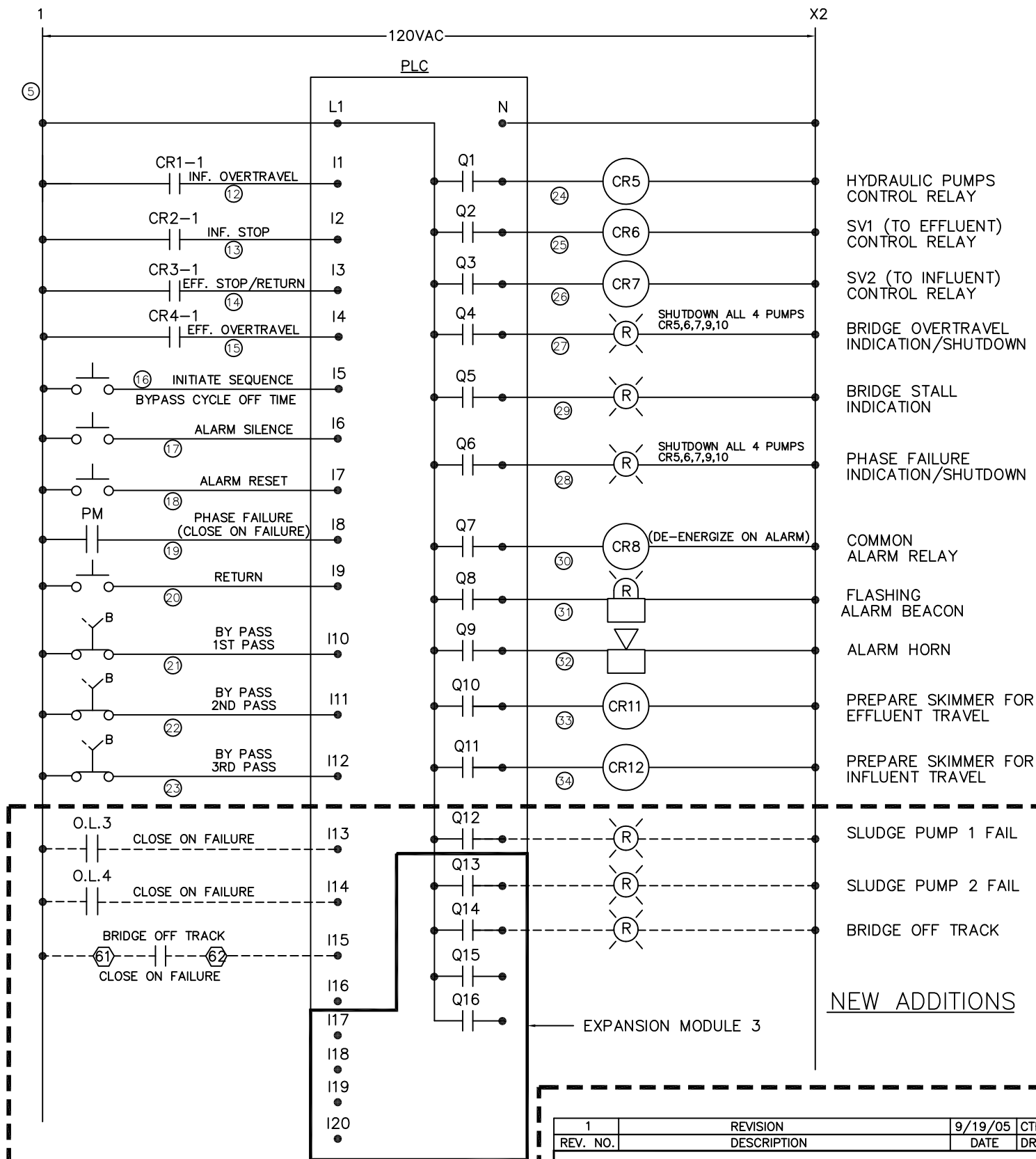
VIEW OF SWING OUT PANEL

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT 2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 9	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		1

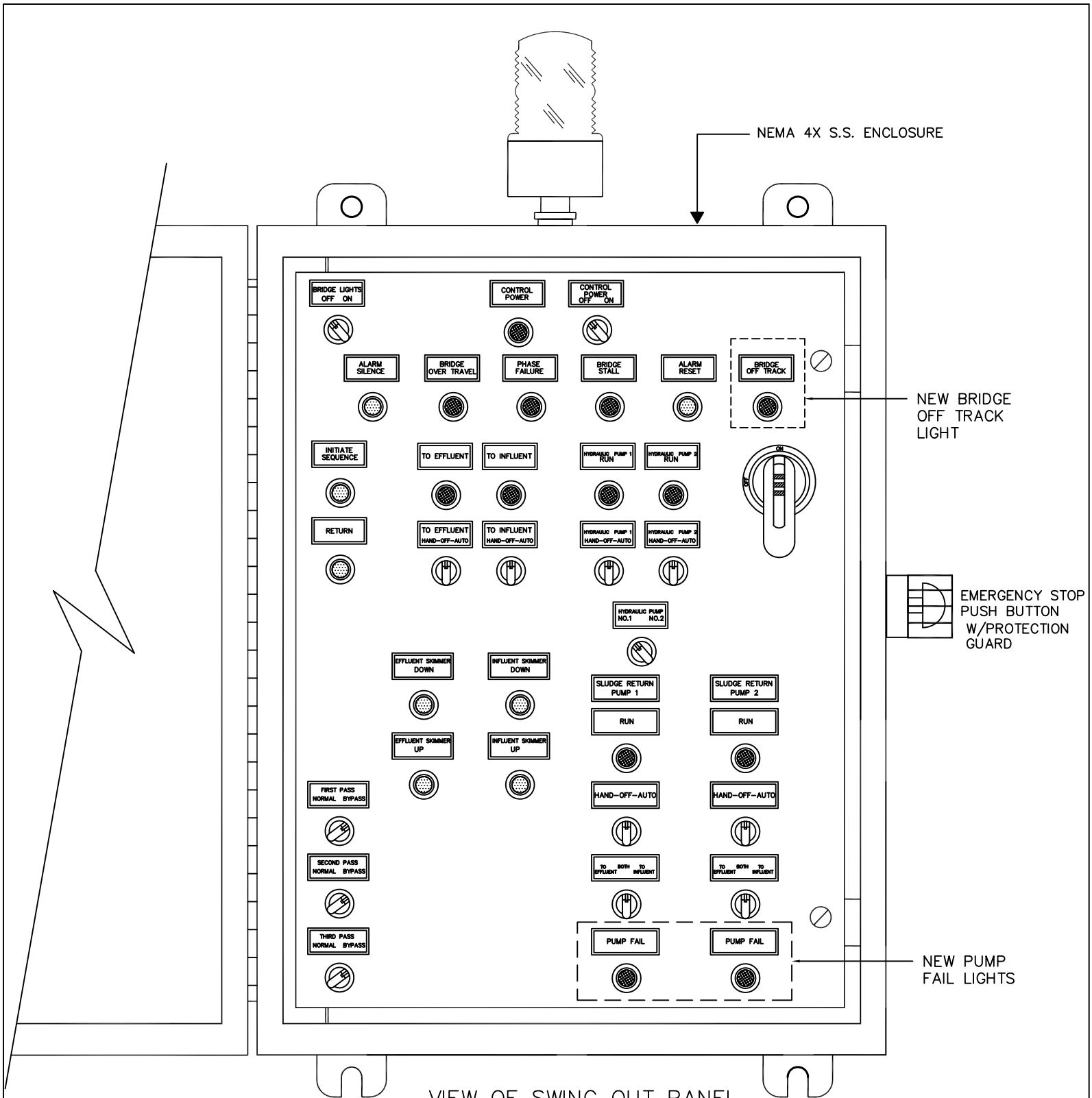
BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S483612N4X	ENCLOSURE
1a	1	EBE	4836P	BACKPLATE
1b	1	EBE	A4836SP	DEAD FRONT
2	1	ABB	OT63E3	DISCONNECT SWITCH
3	4	ABB	A16-30-10-84	MS1-4
4	4	ABB	TA25DU8.5	OL1-4 (6.0-8.5A)
5	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
6	1	SSAC	PLMU-11	PHASE MONITOR
7	1	SQUARE D	9070T1500D1	TRANSFORMER
8	2	SQUARE D	9070TFSC-2	FINGER PROTECTION COVER
9	4	SQUARE D	QOU110	CB5-8
10	3	A-B	800H-HR2A	2 POSITION SWITCH
11	1	A-B	800H-FRXTQ10RA1	EMERGENCY PUSH BUTTON
12	8	A-B	800H-AR2A	PUSH BUTTON
13	6	A-B	800H-QR10R	RED PILOT LIGHT
14	6	A-B	800H-QR10G	GREEN PILOT LIGHT
15	2	A-B	800H-JR2KD7	3 POSITION SWITCH
16	6	A-B	800H-JR2A	HOA SWITCH
17	1	A-B	800T-N209RE1	E-STOP BUTTON
18	15	IDEC	RU4S 110A	CONTROL RELAYS
19	1	TOMAR	490S-120R	STROBE
20	1	EDWARDS	870P-N5	HORN
21	4	ABB	S1N015TL	CB1,2,3,4
22	1	SIEMENS	230RC	PLC
23	3	SIEMENS	DM8230R	EXPANSION MODULE
24	1	ABB	OHB65L5	HANDLE
25	1	ABB	EXP5X265	SHAFT

1	REVISION	9/19/05	CTR	
REV. NO.	DESCRIPTION	DATE	DRN	CHK
		<small>SYSTEMS FOR WATER AND WASTEWATER TREATMENT</small>		
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 10	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		1



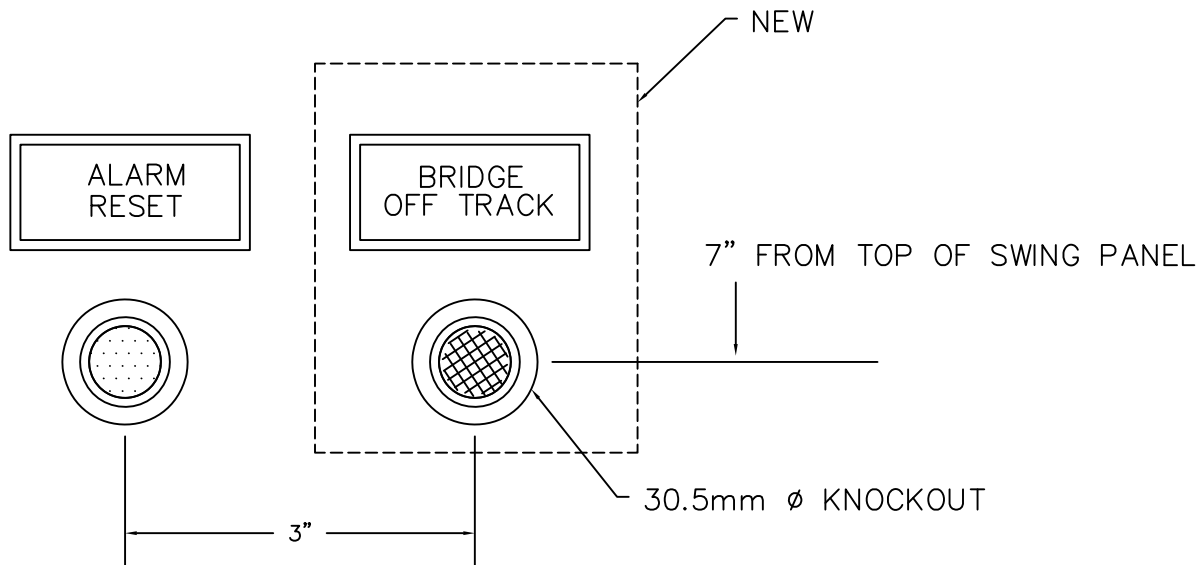
1	REVISION	9/19/05	CTR	
REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT				
2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 3	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		
				1



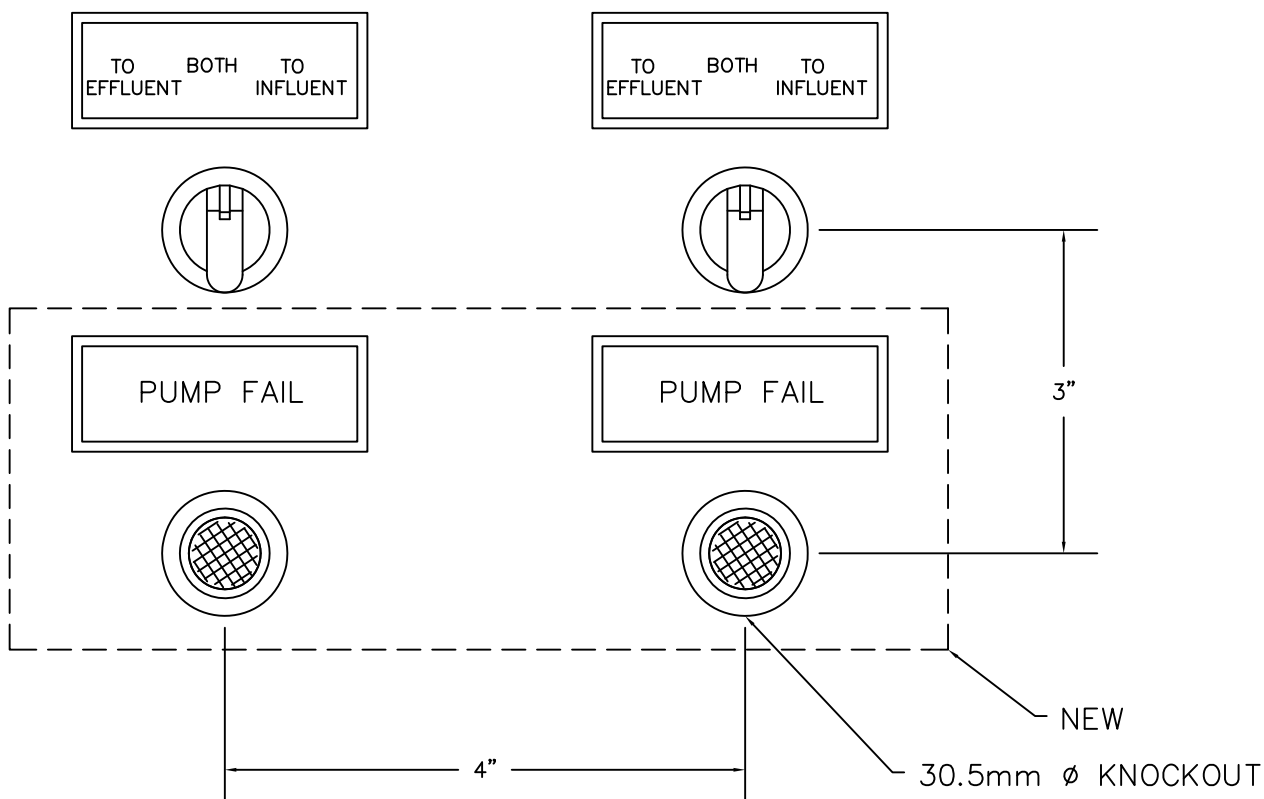
VIEW OF SWING OUT PANEL

REV. NO.	DESCRIPTION	DATE	DRN	CHK
G-H Systems SYSTEMS FOR WATER AND WASTEWATER TREATMENT 2924 Brakely Drive, Unit B-4 Baton Rouge, LA 70816 TELEPHONE: (225) 293-5288 - FAX: (225) 291-1482				
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DRAWN BY: C.RACHAL		DATE: 9/18/03	SHT 9	REV.
APPV'D. BY:		DATE:		
SCALE: N.T.S.		JOB NO:		
FILE:		DWG. NO:		1

TAGS AND LIGHTS TO
BE SUPPLIED BY COX



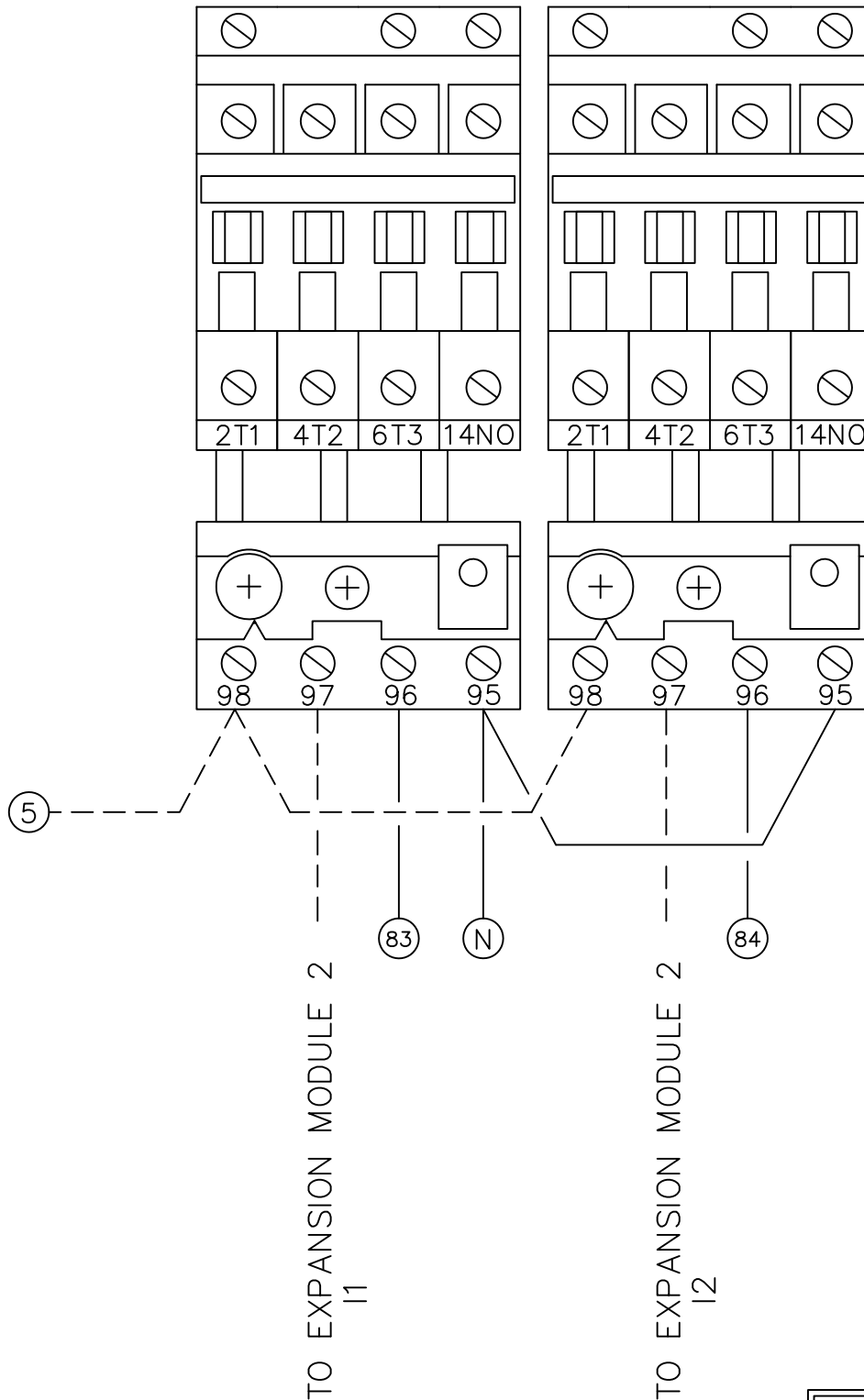
LIGHTS ARE ALLEN-BRADLEY 800H-QR10R



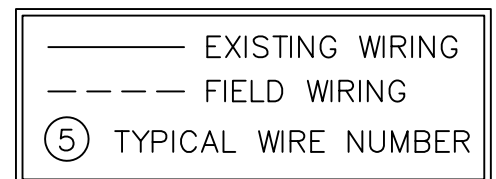
MOUNTING OF PILOT LIGHTS

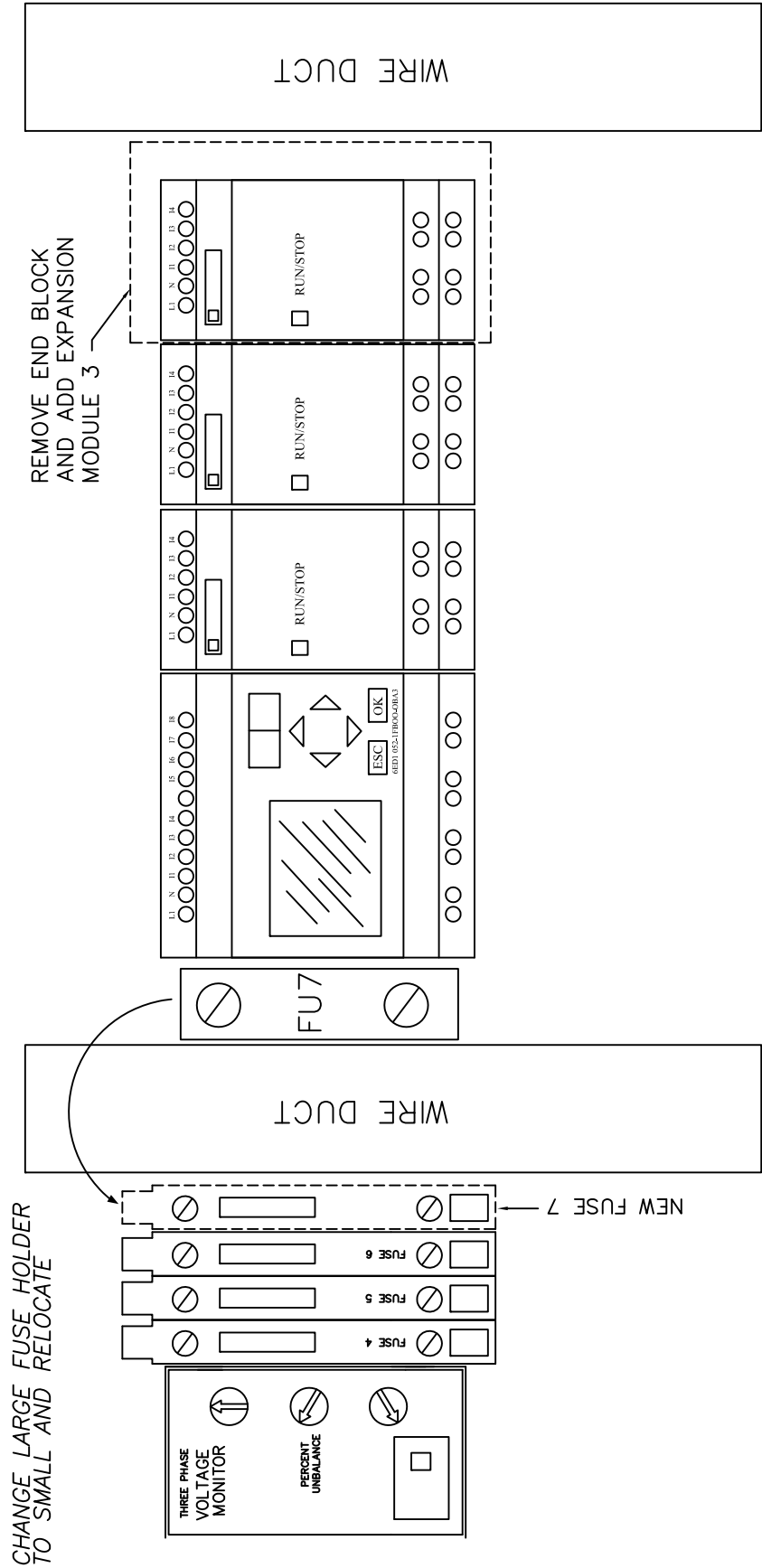
MS3

MS4

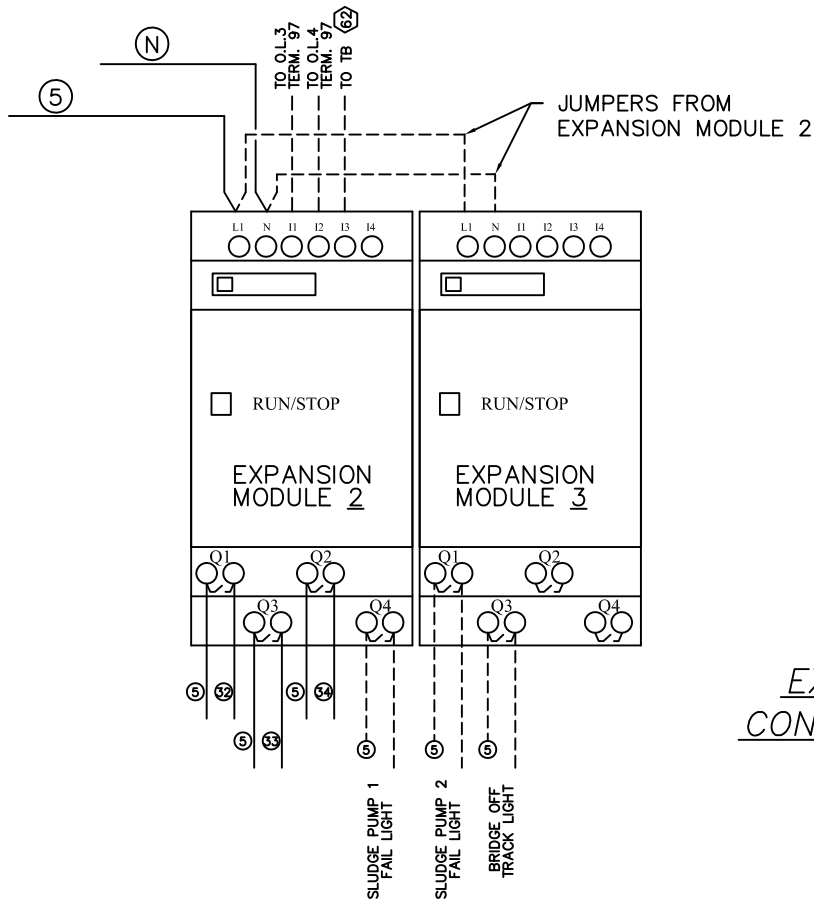
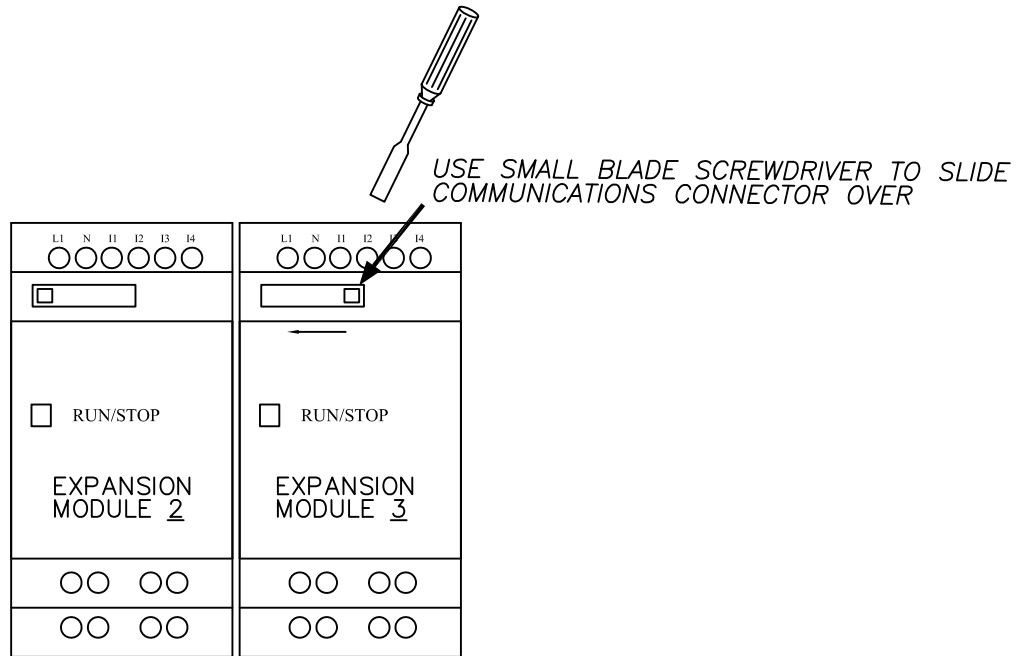
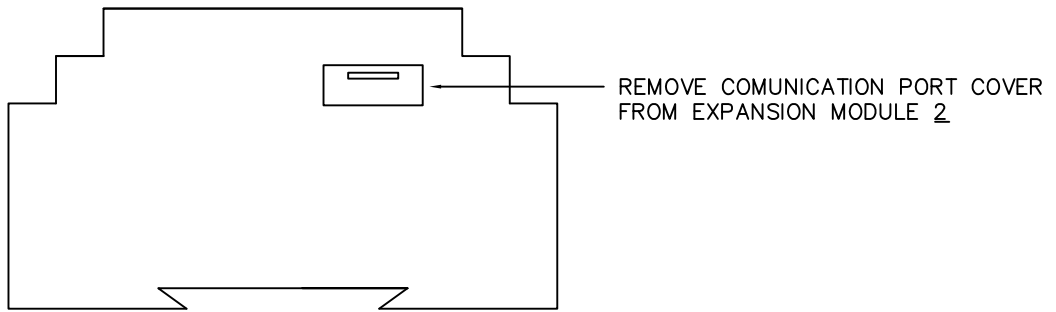


OVERLOAD WIRING





MOUNTING OF EXPANSION MODULE 3



EXPANSION MODULE CONNECTIONS AND WIRING

