



**LIFT STATIONS REHABILITATION - PHASE 5**  
**Solicitation Number: CO-00483**  
**Job No.: 16-2502**

**ADDENDUM 4**  
**November 30, 2021**

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the price proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the Respondent Questionnaire.

**RESPONSES TO QUESTIONS**

- Question:** Sheet E-7 – The circuit shows a Main MCP motor breaker but on Sheet E-8, there is only Pump Breaker Rotary disconnects, should we provide a Rotary disconnect for the MCP also?  
**Response:** *For the main panel breaker, a flange mounted disconnect operating handle shall be provided on the panel door as required per Specification 16487 – 2.04.B. The pump rotary disconnects are to remain as shown on the interior panel door. Drawing will be revised by this addendum to show main flange mounted disconnect handle.*
- Question:** Sheet E-8 Schematic 1 – On the ladder diagram 84-86 shows a 3 Float circuit. Typically SAWS only has a High Level Float circuit in their panels. Please verify that this is a new style circuit for SAWS.  
**Response:** *Verified. Provide as shown on the Drawings.*
- Question:** Sheet E-8 Schematic 1 – On the Remote Alarm Contacts to the PLC, the Low Level Cutoff is to be provided, typically that has been off the Hydorranger, will this be from the Low Level Float circuit?  
**Response:** *Verified. Provide as shown on the Drawings.*
- Question:** Sheet E-13 Detail A shows Floats attached to a weighted cable – This has not been provided for previous SAWS projects, please verify that this is needed.  
**Response:** *Verified. Provide as shown on the Drawings.*

**CHANGES TO THE PLANS**

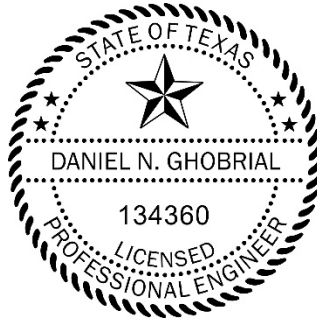
- Sheet E-7 (143 of 150), revise the ladder lines on the left side of the schematic to show the correct references of the contacts. Refer to the revised drawing attached.
- Sheet E-8 (144 of 150), revise the ladder lines on the left side of the schematic to show the correct references of the contacts. Refer to the revised drawing attached.
- Sheet E-8 (144 of 150), revise Pump Control Panel Detail A to show a flange mounted disconnect handle on the panel exterior door. Refer to the revised drawing attached.

**END OF ADDENDUM 4**

This Addendum, including these two (2) pages, is four (4) pages with attachments in its entirety.

Attachments:

- E-7
- E8



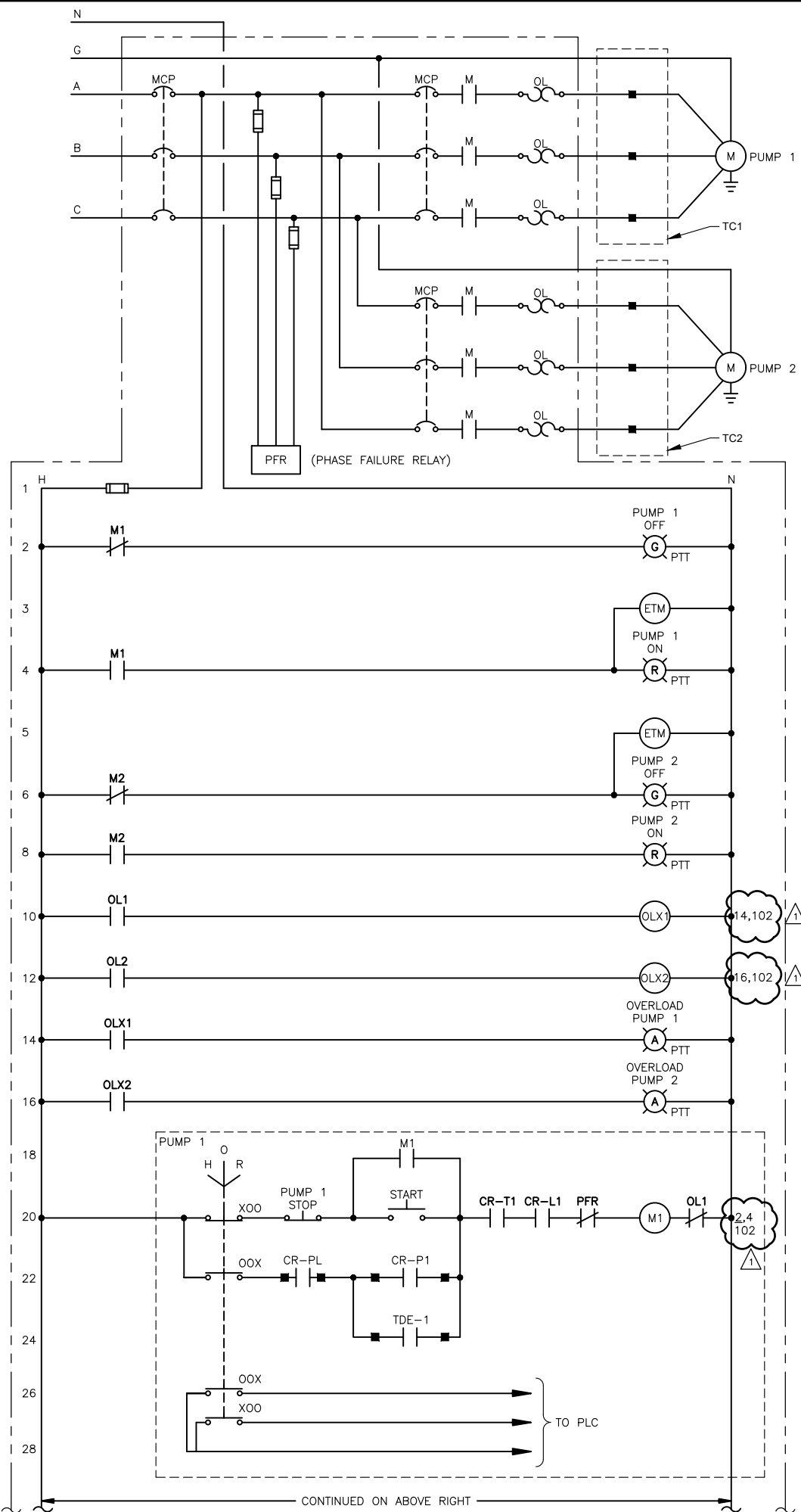
*Daniel Ghobrial* 11/30/2021

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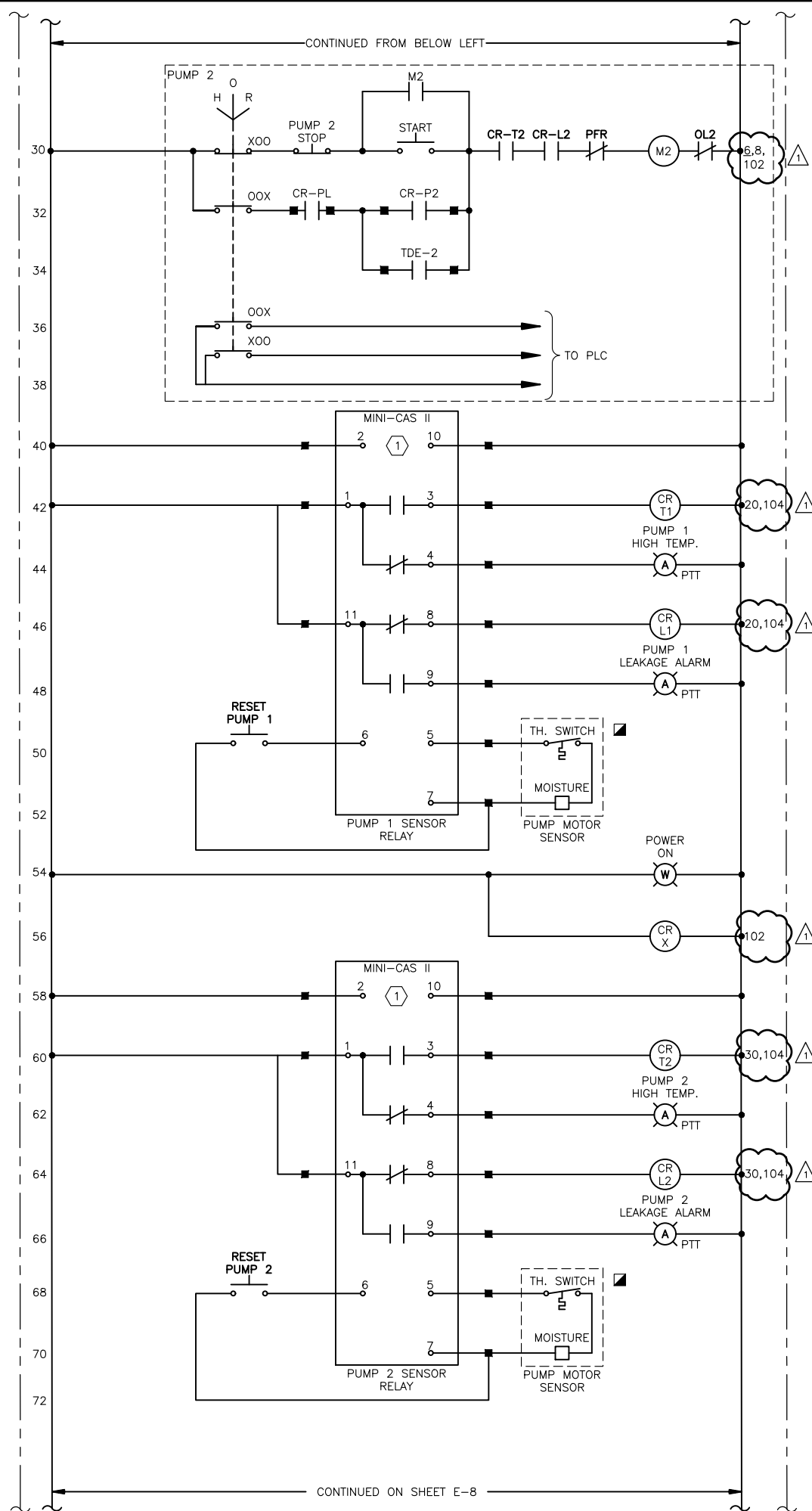
Daniel N. Ghobrial, P.E.  
Gupta and Associates, Inc.  
TBPE Registration No. F-2593

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GAI, INC.  
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CONTINUED ON ABOVE RIGHT



CONTINUED ON SHEET E-8

NOTES BY SYMBOL "#":

1. FLYGT MINI-CAS MODULE SHOWN AS EXAMPLE. MODIFY AS REQUIRED AND UTILIZE PUMP MANUFACTURER MODULE FOR SAME FUNCTIONALITY.

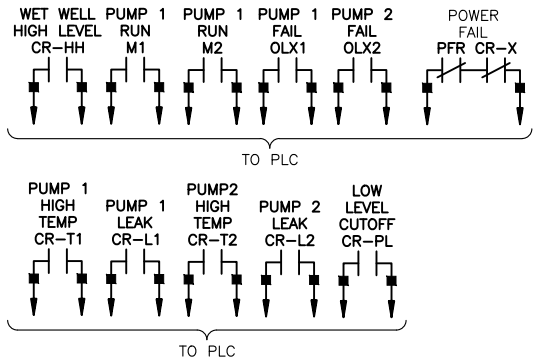
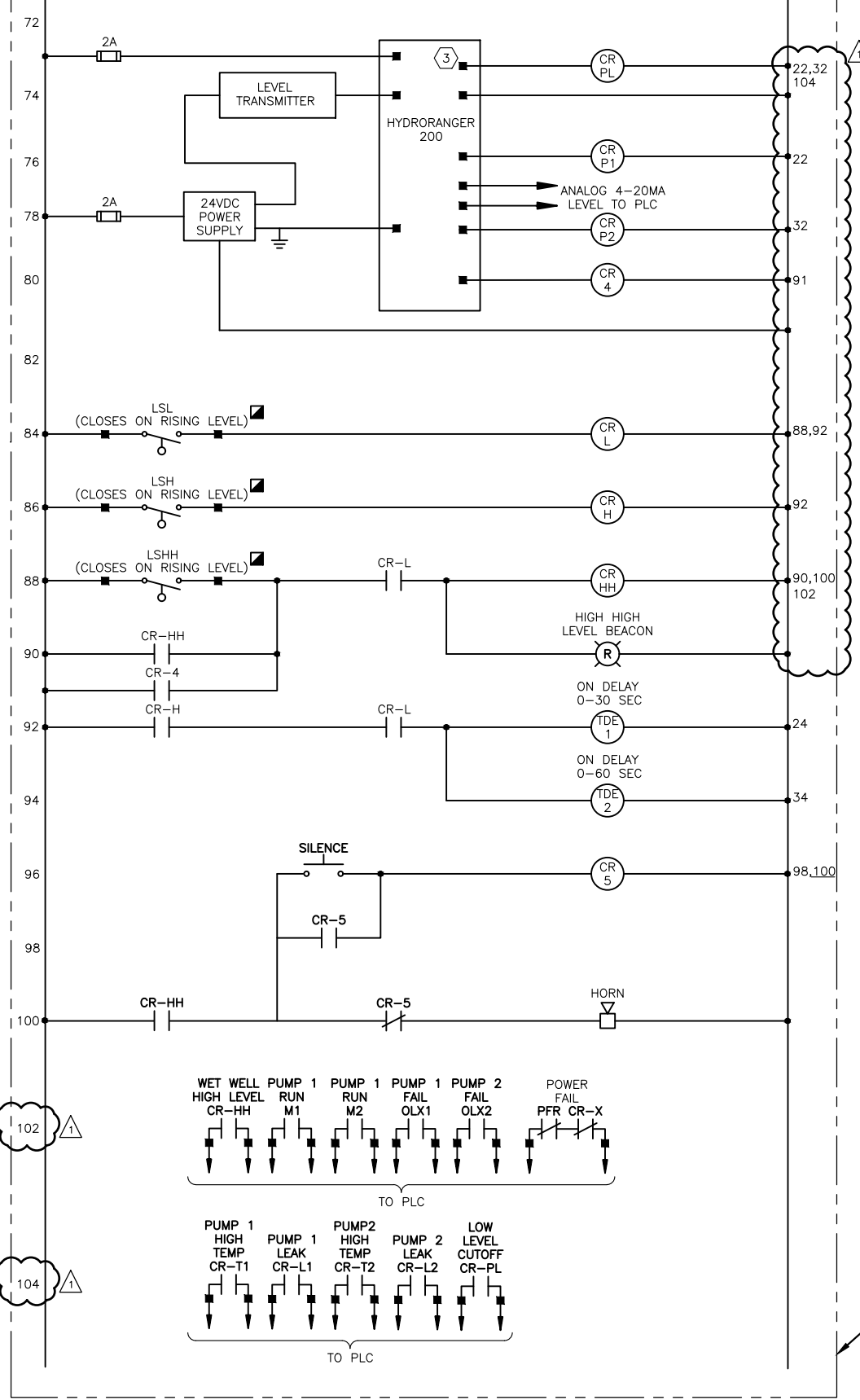


04/28/2021

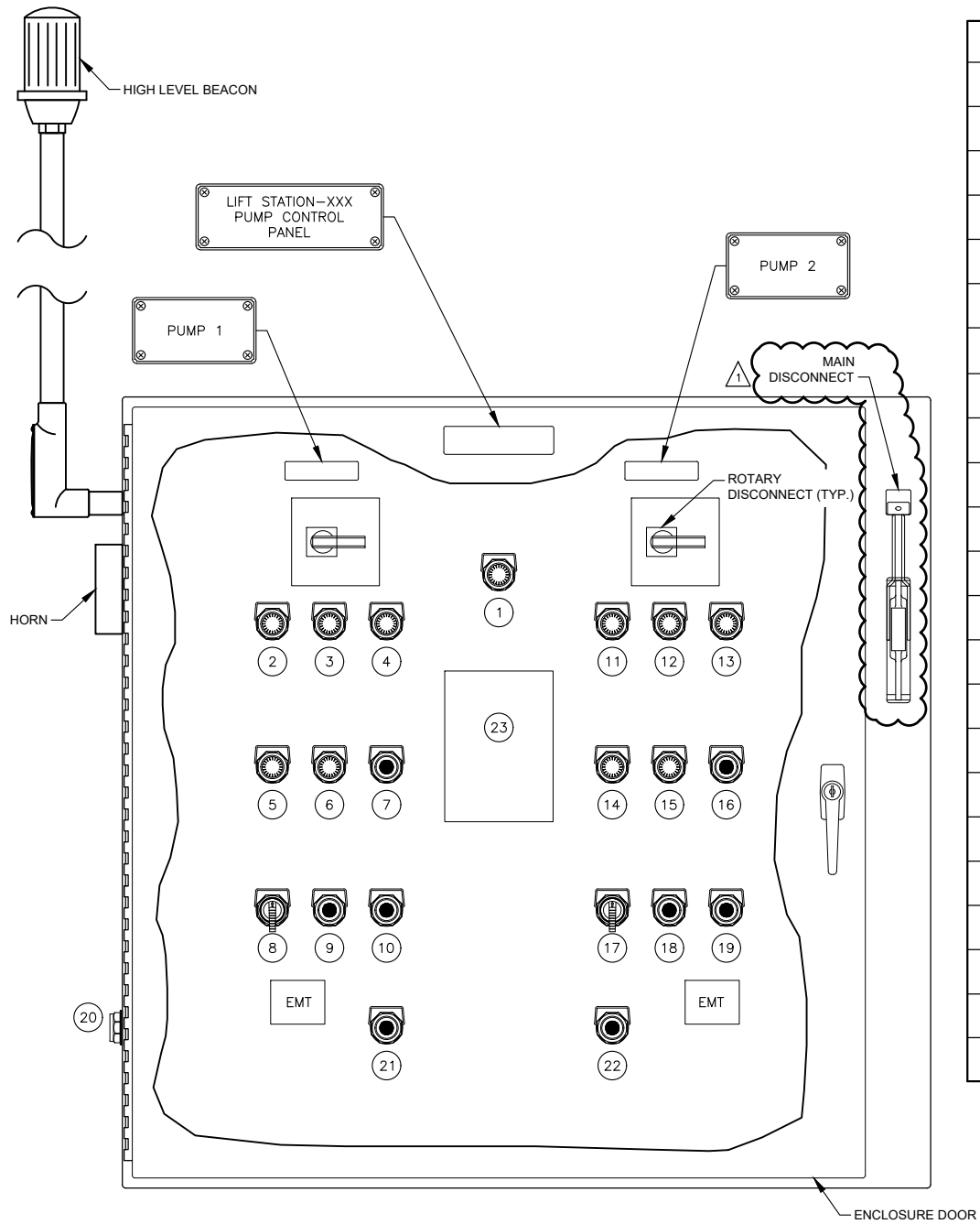
BGE, Inc. 7330 San Pedro, Suite 202 San Antonio, Tx 78216 Tel: 210-581-3600 • www.bgeinc.com TBPE Registration No. F-1046			
ADDENDUM NO.4	JH	DG	11/30/2021
No.	Revision	Drawn	Approved
REVISIONS			
LIFT STATIONS REHABILITATION - PHASE 5 ELECTRICAL SCHEMATIC - 1			
DEVELOPER:		BUDGET PROJ.	
SUBMITTED			
APPROVED			
MAP No.	DR. SL		CK. DG
SECT. No.	JOB No. 16-2502		143 OF 150
GAI Gupta & Associates, Inc. CONSULTING ENGINEERING Registration No. F-2593			13717 Neutron Road Dallas, Texas 75244 Tel: 972-490-7661 Fax: 972-490-7125 email: vkgupta@gaiconsulting.com

PUMP  
SCHEMATIC 1

CONTINUED FROM SHEET E-07



PUMP CONTROL PANEL SCHEMATIC 1



PUMP CONTROL PANEL INNER DOOR

DETAIL A

NO.	DESCRIPTION
1	POWER ON
2	PUMP 1 ON
3	PUMP 1 OFF
4	PUMP 1 OVERLOAD
5	PUMP 1 HIGH TEMP ALARM
6	PUMP 1 LEAK ALARM
7	PUMP 1 ALARM RESET
8	PUMP 1 HOA
9	PUMP 1 START
10	PUMP 1 STOP
11	PUMP 2 ON
12	PUMP 2 OFF
13	PUMP 2 OVERLOAD
14	PUMP 2 HIGH TEMP ALARM
15	PUMP 2 LEAK ALARM
16	PUMP 2 ALARM RESET
17	PUMP 2 HOA
18	PUMP 2 START
19	PUMP 2 STOP
20	ALARM SILENCE
21	OVERLOAD RESET PUMP 1
22	OVERLOAD RESET PUMP 2
23	LEVEL CONTACT

- LEGEND:**
- ▣ DEVICE LOCATED IN THE FIELD.
  - LOCATED AT PLC.
  - ▲ DEVICE LOCATED AT THE LCP.
  - TERMINAL IN MCC FOR FIELD WIRING.
  - CONNECTION IN MCC.
- NOTES BY SYMBOL " # ":**
- CONTACT TO BE PROGRAMMED TO CLOSE AT 6" BELOW HI LEVEL FLOAT INSTALLED ELEVATION, AND OPEN AT 6" ABOVE LOW LEVEL FLOAT. PROVIDE EXTERNAL BUFFER RELAY AS SPECIFIED.
  - PUMP CONTROL PANEL TO BE 36"x36"x10" MINIMUM SIZE NEMA 4X 316 SS.
  - HYDRORANGER RELAY #1 USED FOR PUMP 1 START, RELAY #2 USED FOR PUMP 2 START, RELAY #3 USED FOR LOW LEVEL PUMP CUT-OFF AND SCADA LOW LEVEL ALARM, RELAY #6 USED FOR SCADA HIGH LEVEL ALARM, IN PARALLEL TO THE HIGH LEVEL ALARM FLOAT AND PRODUCE A LOCAL AUDIBLE ALARM AND RED FLASHING BEACON.



04/28/2021

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No.	Revision	Drawn	Approved	Date
ADDENDUM NO.4		JH	DG	11/30/2021

**REVISIONS**

**LIFT STATIONS REHABILITATION - PHASE 5**

**ELECTRICAL SCHEMATIC - II**

DEVELOPER: \_\_\_\_\_

CONT. \_\_\_\_\_ BUDGET PROJ. \_\_\_\_\_

SUBMITTED \_\_\_\_\_

APPROVED \_\_\_\_\_

MAP No. \_\_\_\_\_ SHEET E-8

SECT. No. \_\_\_\_\_

DR. SL CK. DG JOB No. 16-2502 144 OF 150

**GAI**  
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CONSULTING ENGINEERING  
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