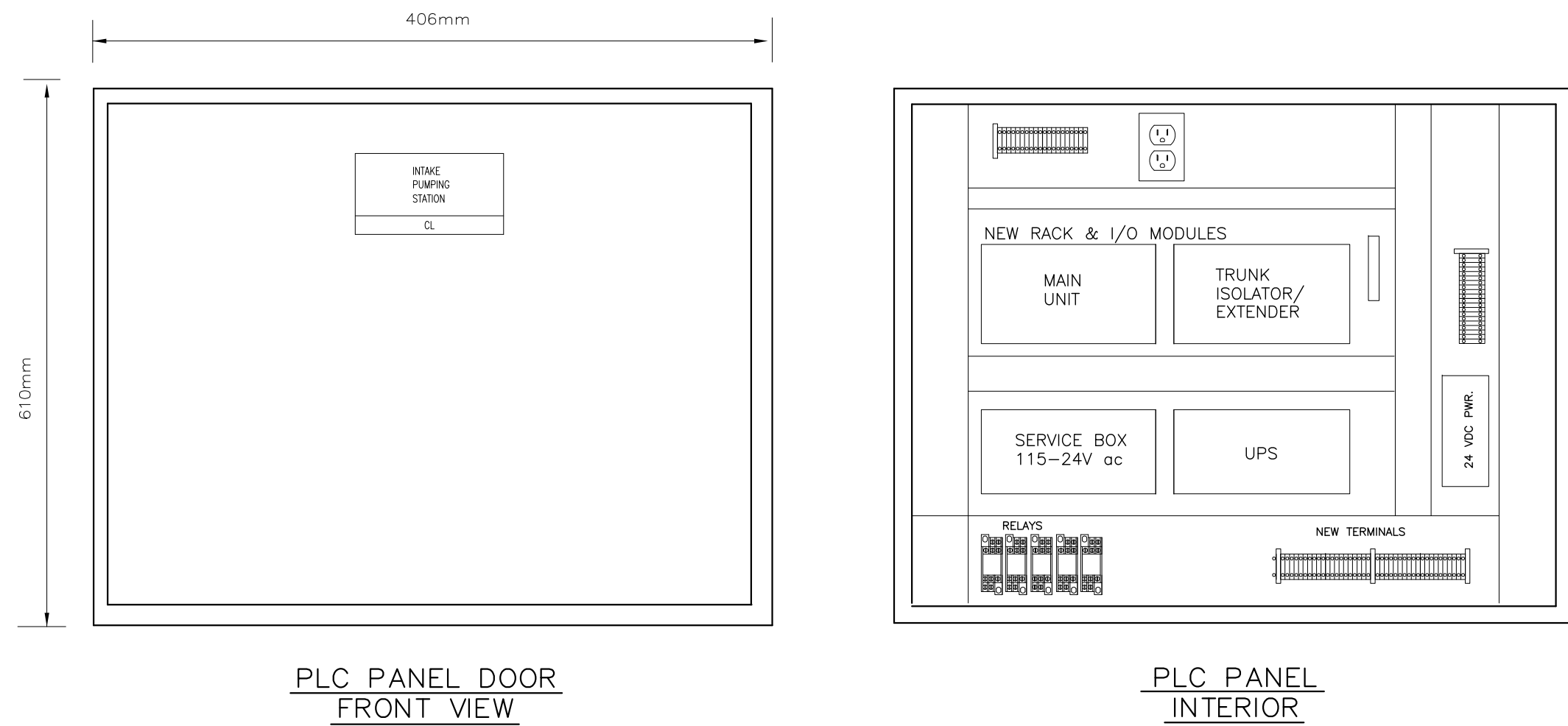


<h2 style="margin: 0;">RECORD DRAWING</h2>	
APPROVED BY _____	DATE _____

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_



## PANEL GENERAL ARRANGEMENT

SCALE: NOT TO SCALE

NOTES:

1. PANEL SIZE SHALL BE 610mm(H) x 406mm(W) x 118mm(D) (MIN. SIZE).
2. PANEL SHALL BE 12 GAUGE STEEL, CSA TYPE 12 SINGLE DOOR, WALL MOUNTED ENCLOSURE WITH GRAY POLYESTER POWDER COATING INSIDE AND OUT STANDARD OF ACCEPTANCE : HOFFMAN A-24N16ALP.
3. CONTRACTOR TO PROVIDE DETAIL PANEL DRAWING WITH DIMENSIONS.
4. CONTRACTOR TO COORDINATE DETAILS, SIZE AND OPENINGS.
5. PROVIDE INPUT MODULES FOR ALARM MONITORING OF THE FOLLOWING (PROVIDE 30% FE SPARE I/O FOR FUTURE):
  - RWP1; ON, OFF, ALARM/FAULT
  - RWP2; ON, OFF, ALARM/FAULT
  - HEAT TRACE #1; ALARM/FAULT
  - HEAT TRACE #2; ALARM/FAULT
  - DIESEL GENERATOR; AUTO, ON, OFF, FAULT
  - FUEL TANK; LOW ALARM
  - ALL ALARMS (MAJOR & MINOR)

## ALARMS

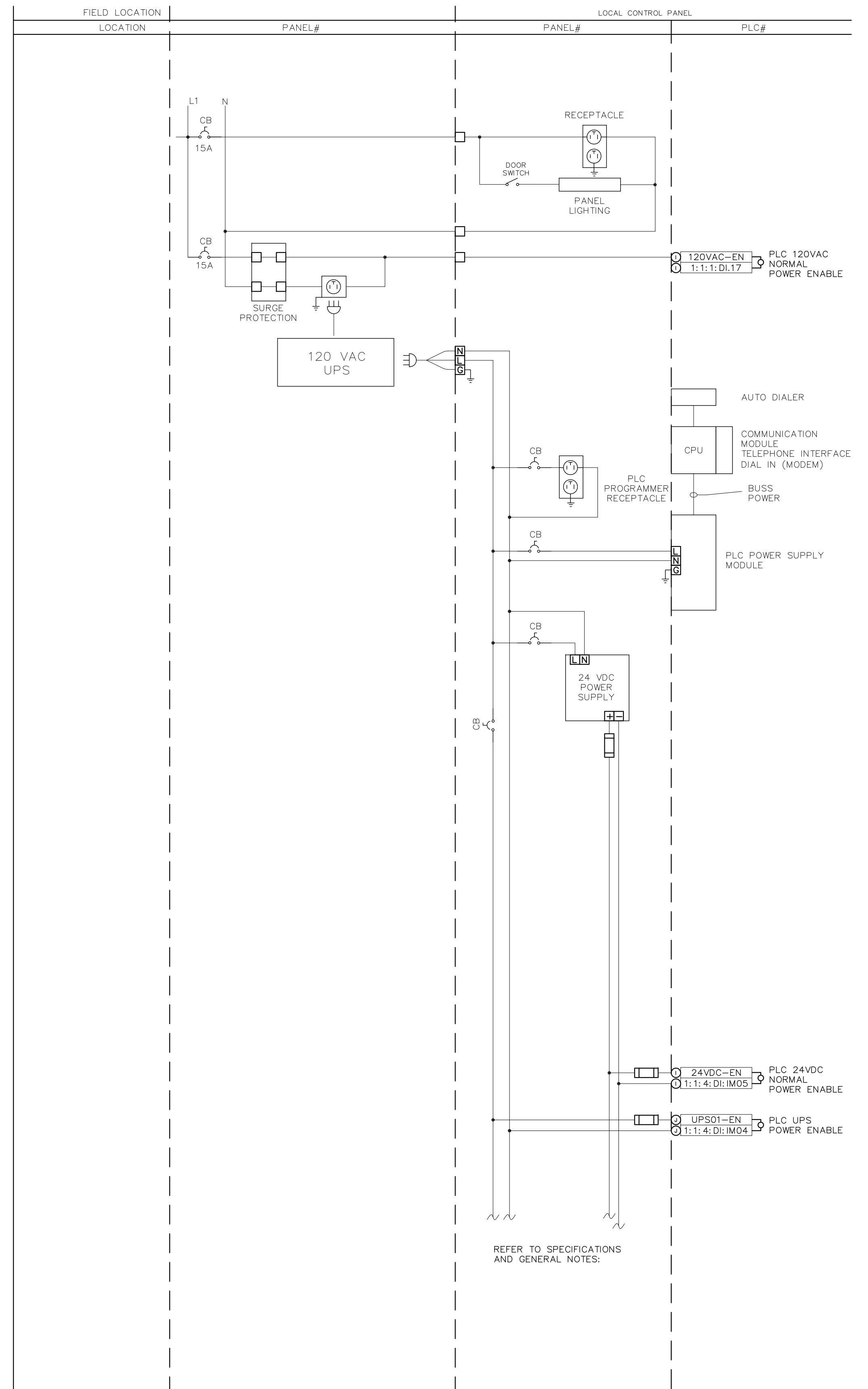
## MAJOR ALARM (DIAL OUT)

INTAKE PUMP FAILURE RWP 1 & 2  
LOW BUILDING TEMP  
POWER OFF - STAND-BY GENERATOR FAIL  
VERY LOW FUEL  
HEAT TRACE LOW TEMP RWP 1 & 2

MINOR ALARM (LOCAL ANNUNCIATOR ONLY)

HIGH BUILDING TEMP  
POWER OFF - STAND-BY GENERATOR ON  
LOW FUEL TEMP  
HIGH WASTE WATER TANK LEVEL  
HEAT TRACE GENERAL FAULT  
GENERATOR GENERAL FAULT

6. PROVIDE PLC TO ACCOMMODATE FOR THE ABOVE CAPTIONED INPUT, ACCEPTABLE PLC: CONTROL MICRO SYSTEM (SCADA PACK), SIEMENS(S7-200 SERIES) W10 (DATA PACK) PHOENIX. PROVIDE ALL NECESSARY ACCESSORIES AS INDICATED INCLUDING POWER SUPPLY, UPS AND MODEM MODULE FOR A COMPLETE SYSTEM.
7. PROVIDE A FOUR (4) CHANNEL AUTO DIALER TO DIAL OUT ON ANY MAJOR ALARM/FAULT. PROGRAM AS INSTRUCTIONS AT SITE.
8. PROVIDE ONE COPY AND LICENSE OF THE SYSTEM MANUFACTURER'S PROPRIETARY SCADA SOFTWARE AND INSTALL ON THE SCADA COMPUTER.
9. PROVIDE A DESKTOP SCADA COMPUTER INCLUDING:
  - 19" LCD MONITOR
  - 500 GB HARD DRIVE
  - PROCESSOR AND MEMORY ACCORDING TO SCADA MANUFACTURER'S RECOMMENDATIONS (MIN: CORE II DUO 2QHZ CPU AND 1 GB MEMORY)
  - DVD Z BURNER
  - KEYBOARD AND OPTICAL MOUSE
  - EXTERNAL US ROBOTICS MODEM
  - 10/100 ETHERNET CARD
  - OPERATING SYSTEM PER SCADA MANUFACTURER'S RECOMMENDATIONS.
10. SYSTEM TO BE SIMILAR TO CURRENTLY ADVERTISED COMPLETE SYSTEMS BY MAJOR MANUFACTURERS (DELL, HP, ETC.)
11. INSTALL SCADA SOFTWARE AND TRAIN TWO PEOPLE AS INTRODUCED BY CLIENT.



A	ASBUILT DRAWING	03/28/12	GS
5	RE-ISSUED FOR TENDER	01/05/10	GS
4	RE-ISSUED FOR TENDER	01/28/09	GS
3	ISSUED FOR TENDER	06/06/08	GS
2	ISSUED FOR 100% CLIENT REVIEW	04/30/08	GS
1	ISSUED FOR CLIENT REVIEW	03/15/08	GS
No.	ISSUED FOR	DATE	BY

DESIGN	REVIEWED BY
SAI	GS
DRAWN	CHECKED BY
JPM	GS
DATE	
MARCH 2012	
SCALE	NTS

TALOYOAK WATER TREATMENT PLANT RECORD DRAWINGS  
TALOYOAK, NUNAVUT

## INSTRUMENTATION AND CONTROL

PROJECT NO.  
**07-8107-2000**

SHEET NO.

405