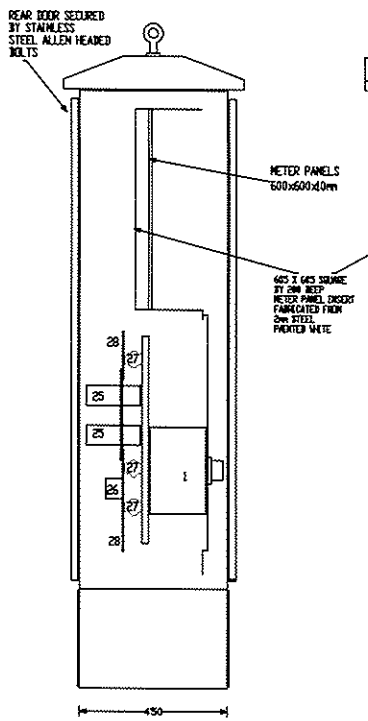
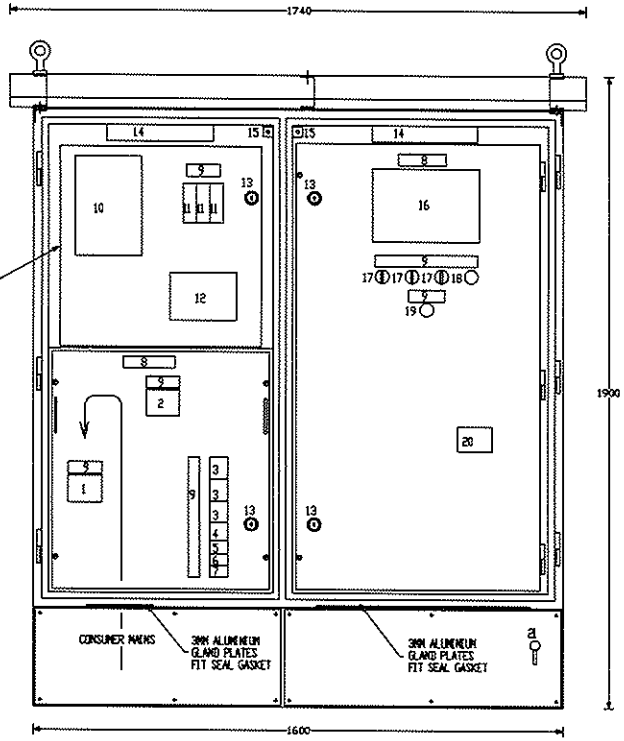
LEFT SIDE VIEW

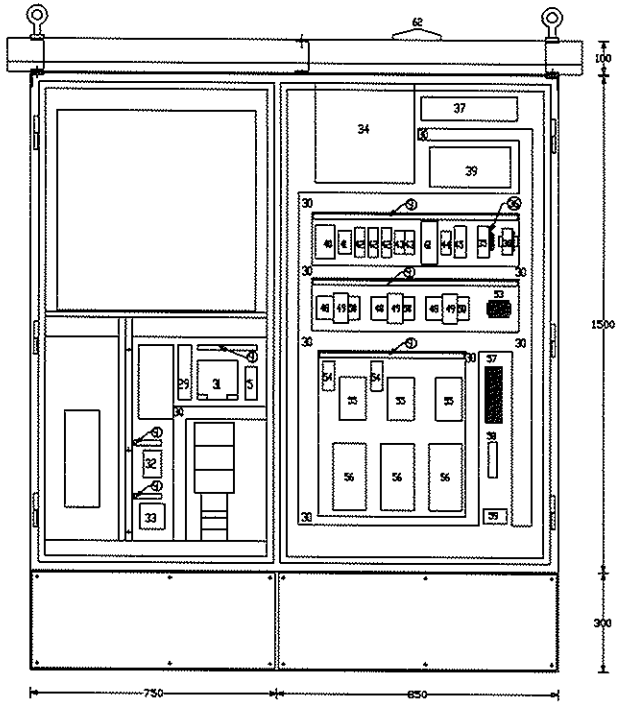
(EQUIPMENT MOUNTING SHOWN DOTTED)



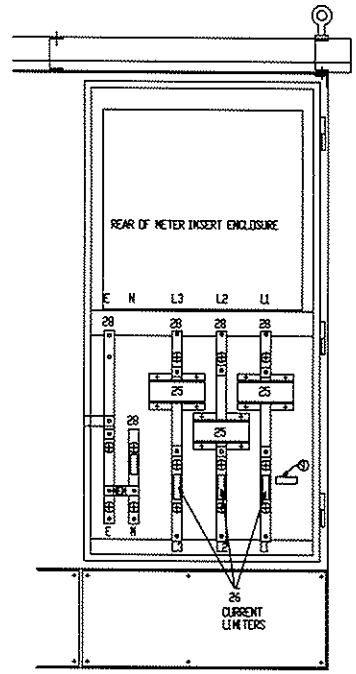
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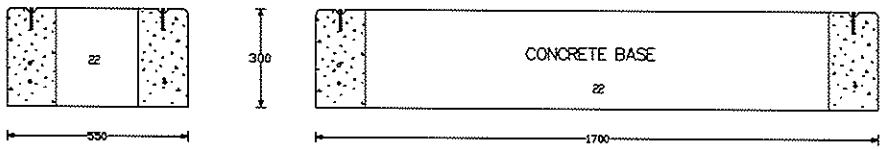


BACK PAN LA. .



BACK OF CABINET CT ZONE





NOTES

FABRICATE CABINET FROM 2Omm 316 STAINLESS STEEL.
FABRICATE ESCUTCHEONS FROM 2Omm 316 STAINLESS STEEL.
FABRICATE BACK PANS AND TOP HATS FROM 2Omm STEEL SHEET
FABRICATE GLAND PLATES FROM 3Omm ALUMINIUM.
ALL WELDING SPLATTER IS TO REMOVED PRIOR TO PAINTING ALL CORNERS TO BE GROUND SQUARE AND SMOOTH WITH NO GRINDING MARKS VISIBLE
ENCLOSURE IS TO HAVE A PROTECTION RATING OF IP-56
DOOR SEALS TO BE "PINCH-WELD"
DOOR STAYS TO BE FITTED AT TOP OF ALL DOORS

FINISH DETAILS

EXTERNAL - POWDERCOAT FINISH COLOUR WHITE
INTERNAL - POWDERCOAT FINISH COLOUR WHITE
GLAND PLATES - NATURAL ALUMINIUM

OTHER

ALL HARDWARE AND FIXINGS TO BE STAINLESS STEEL EXCEPT LIFTING EYES AND LOCKWOOD STREAMLATCHES

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	TYPE
1		
2		
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EQUIPMENT SCHEDULE

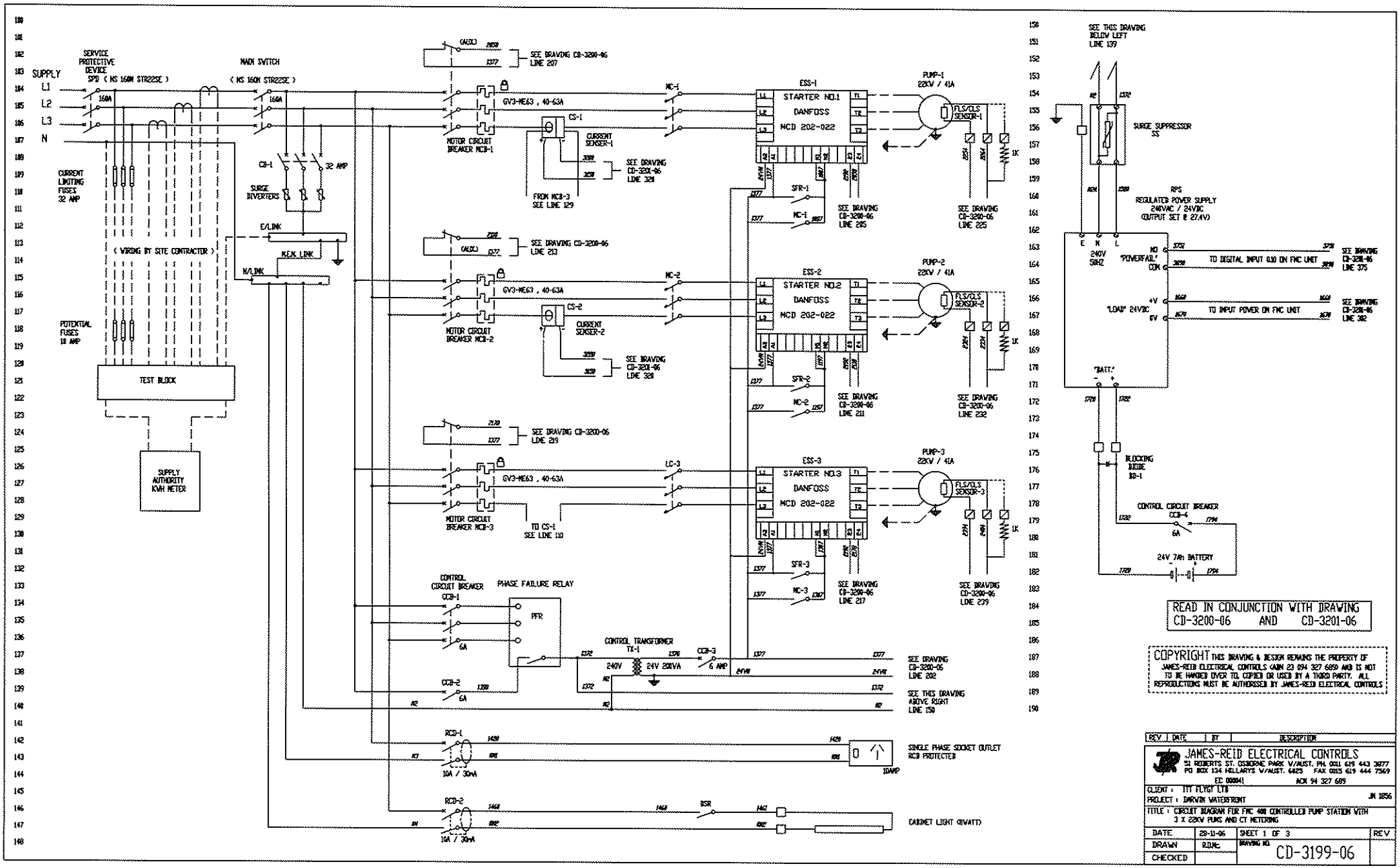
ITEM	DESCRIPTION	TYPE
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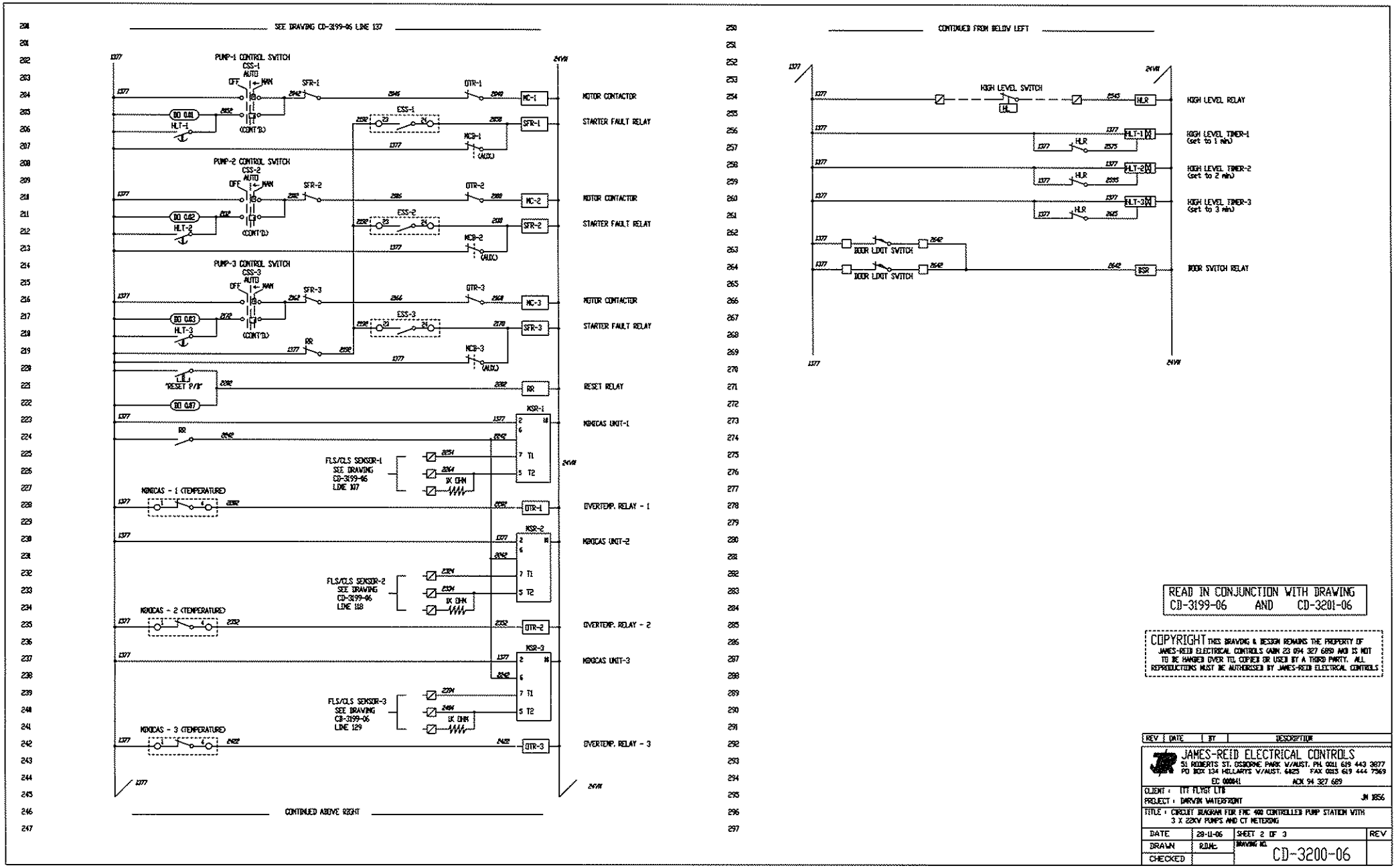
JAMES-REID ELECTRICAL CONTROLS PTY LTD
51 ROBERTS ST. OSBORNE PARK PH (08) 9443 3877
PO BOX 134 HILLARYS 6025 FAX (08) 9444 7569
ACN 008 928 283 EC 000041

CLIENT: ITT FLYGT
PROJECT: DARWIN WATERFRONT JN 1856

CT METERED FHC PUMP CONTROL CABINET (3 X 22KV SOFT STARTERS)

DATE	08-11-2006	REV
DRAWN	R.D.Mc	EL-1217A-06
SCALE		


SUPPLY
L1
L2
L3
N
SERVICE PROTECTIVE DEVICE SPD (NS 160N STR22SE)
MAIN SWITCH (NS 160N STR22SE)
160A
CURRENT LIMITING FUSES 32 AMP
POTENTIAL FUSES 10 AMP
TEST BLOCK
SUPPLY AUTHORITY KWH METER
(WIRING BY SITE CONTRACTOR)
CB-1
32 AMP
SURGE DIVERTERS
E/LINK
KEK LINK
K/LINK
(AUX)
SEE DRAWING CD-3200-06 LINE 207
SEE DRAWING CD-3200-06 LINE 213
SEE DRAWING CD-3200-06 LINE 219
GV3-ME63 , 40-63A
MOTOR CIRCUIT BREAKER MCB-1
MOTOR CIRCUIT BREAKER MCB-2
MOTOR CIRCUIT BREAKER MCB-3
MC-1
MC-2
MC-3
CS-1
CURRENT SENSER-1
CS-2
CURRENT SENSER-2
FROM MCB-3 SEE LINE 129
SEE DRAWING CD-3201-06 LINE 328
TO CS-1 SEE LINE 110
ESS-1
ESS-2
ESS-3
STARTER NO.1
STARTER NO.2
STARTER NO.3
DANFOSS
MCD 202-022
PUMP-1 22KW / 41A
PUMP-2 22KW / 41A
PUMP-3 22KW / 41A
FLS/CLS SENSER-1
FLS/CLS SENSER-2
FLS/CLS SENSER-3
1K
SFR-1
SFR-2
SFR-3
SEE DRAWING CD-3200-06 LINE 205
SEE DRAWING CD-3200-06 LINE 211
SEE DRAWING CD-3200-06 LINE 217
SEE DRAWING CD-3200-06 LINE 225
SEE DRAWING CD-3200-06 LINE 232
SEE DRAWING CD-3200-06 LINE 239
CONTROL CIRCUIT BREAKER CCB-1
CCB-2
CCB-3
CCB-4
6A
6 AMP
PHASE FAILURE RELAY
PFR
CONTROL TRANSFORMER TX-1
240V
24V 250VA
SEE DRAWING CD-3200-06 LINE 202
SEE THIS DRAWING ABOVE RIGHT LINE 150
RCD-1
RCD-2
10A / 30mA
SINGLE PHASE SOCKET OUTLET RCD PROTECTED
10AMP
BSR
CABINET LIGHT (5WATT)
SEE THIS DRAWING BELOW LEFT LINE 159
SURGE SUPPRESSOR SS
RPS
REGULATED POWER SUPPLY 240VAC / 24VDC OUTPUT SET @ 27.4V)
240V 50HZ
"POWERFAIL"
TO DIGITAL INPUT 0.10 ON FNC UNIT
SEE DRAWING CD-3201-06 LINE 375
"LOAD" 24VDC
TO INPUT POWER ON FNC UNIT
SEE DRAWING CD-3201-06 LINE 382
"BATT."
BLOCKING DIODE BD-1
CONTROL CIRCUIT BREAKER
24V 7Ah BATTERY
READ IN CONJUNCTION WITH DRAWING CD-3200-06 AND CD-3201-06
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REV. | DATE | BY | DESCRIPTION
JAMES-REID ELECTRICAL CONTROLS
51 ROBERTS ST. OSBORNE PARK W/AUST. PH. 0011 619 443 3077
PO BOX 134 HILLARYS W/AUST. 6025 FAX 0015 619 444 7569
EC 000041 ACN 94 327 689
CLIENT : ITT FLYGT LTD
PROJECT : DARWIN WATERFRONT
JR 1256
TITLE : CIRCUIT DIAGRAM FOR FNC 400 CONTROLLED PUMP STATION WITH 3 X 22KW PUMS AND CT METERING
DATE 28-11-06
DRAWN R.D.M.
CHECKED
SHEET 1 OF 3
DRAWING NO. CD-3199-06
REV.



READ IN CONJUNCTION WITH DRAWING
CD-3199-06 AND CD-3201-06

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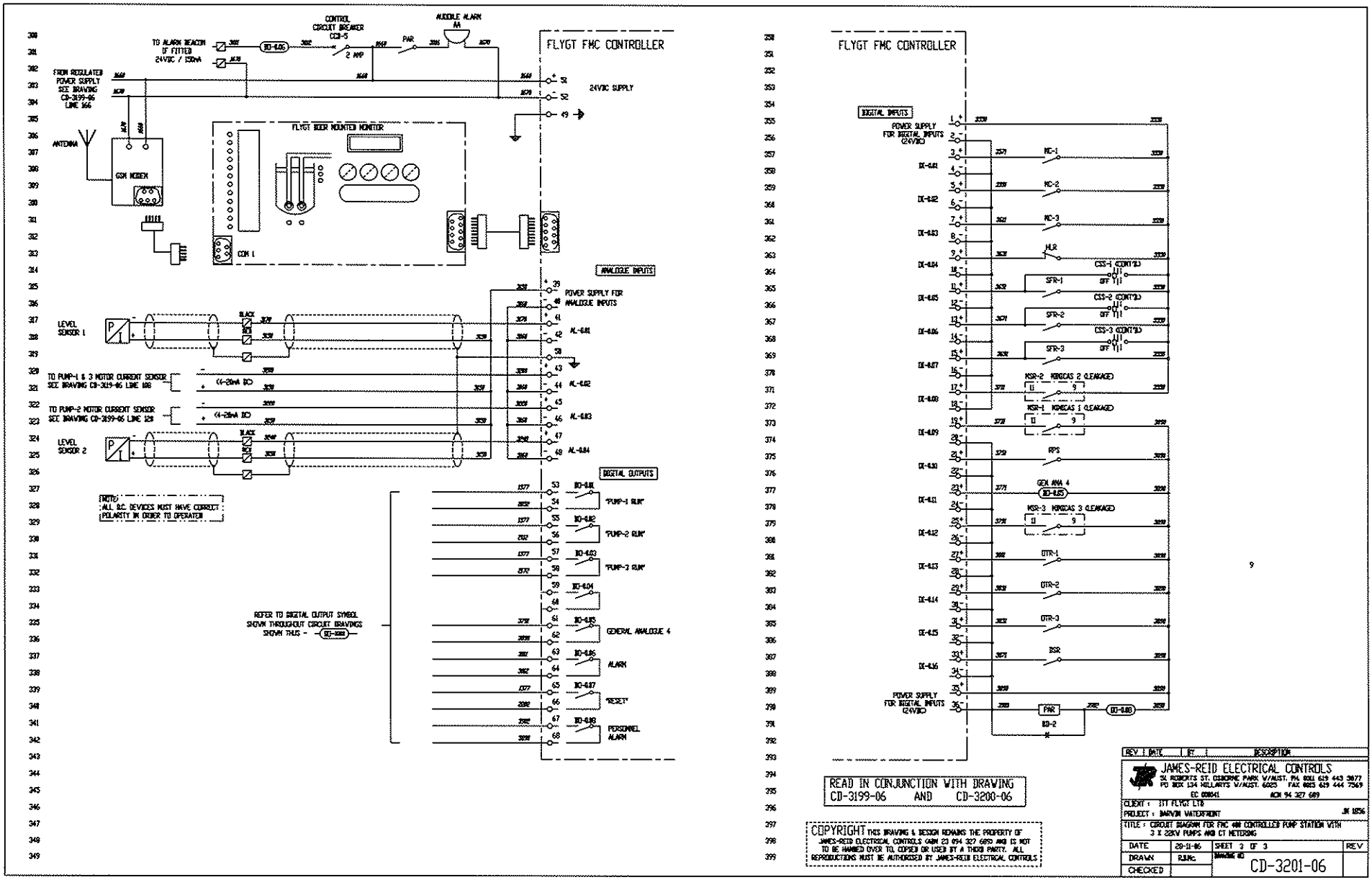
REV	DATE	BY	DESCRIPTION

JAMES-REID ELECTRICAL CONTROLS
51 ROBERTS ST. OSBORNE PARK W/AUST. PH. 0011 619 443 3877
PO BOX 134 HILLARYS W/AUST. 6923 FAX 0011 619 444 7569
EC 000841 ACN 94 327 689

CLIENT : ITT FLYGT LTD
PROJECT : DARWIN WATERFRONT JN 1856

TITLE : CIRCUIT DIAGRAM FOR FNC 400 CONTROLLED PUMP STATION WITH 3 X 22KW PUMPS AND CT METERING

DATE	28-11-06	SHEET 2 OF 3	REV
DRAWN	R.D.M.	DRAWING NO.	
CHECKED		CD-3200-06	


FLYGT FMC CONTROLLER
CONTROL CIRCUIT BREAKER CCB-5
AUDIBLE ALARM AA
TO ALARM BEACON IF FITTED 24VDC / 150mA
2 AMP
PAR
24VDC SUPPLY
FLYGT BEER MOUNTED MONITOR
ANTENNA
GSM MODEM
COM 1
ANALOGUE INPUTS
POWER SUPPLY FOR ANALOGUE INPUTS
LEVEL SENSOR 1
LEVEL SENSOR 2
TO PUMP-1 & 3 MOTOR CURRENT SENSOR SEE DRAWING CD-3199-06 LINE 108
TO PUMP-2 MOTOR CURRENT SENSOR SEE DRAWING CD-3199-06 LINE 128
(4-20mA DC)
AI-1
AI-2
AI-3
AI-4
DIGITAL OUTPUTS
"PUMP-1 RUN"
"PUMP-2 RUN"
"PUMP-3 RUN"
GENERAL ANALOGUE 4
ALARM
"RESET"
PERSONNEL ALARM
REFER TO DIGITAL OUTPUT SYMBOL SHOWN THROUGHOUT CIRCUIT DRAWINGS SHOWN THUS -
NOTE: ALL D.C. DEVICES MUST HAVE CORRECT POLARITY IN ORDER TO OPERATE
FLYGT FMC CONTROLLER
DIGITAL INPUTS
POWER SUPPLY FOR DIGITAL INPUTS (24VDC)
MC-1
MC-2
MC-3
HLR
CSS-1 (CONT'D)
SFR-1
CSS-2 (CONT'D)
SFR-2
CSS-3 (CONT'D)
SFR-3
MSR-2 MONICAS 2 CLEANAGE
MSR-1 MONICAS 1 CLEANAGE
RPS
GEN ANA 4
MSR-3 MONICAS 3 CLEANAGE
OTR-1
OTR-2
OTR-3
ESR
PAR
READ IN CONJUNCTION WITH DRAWING CD-3199-06 AND CD-3200-06
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REV | DATE | BY | DESCRIPTION
JAMES-REID ELECTRICAL CONTROLS
CLIENT : ITT FLYGT LTD
PROJECT : MARVIN WATERFRONT
JR 1856
TITLE : CIRCUIT DIAGRAM FOR FMC 488 CONTROLLER PUMP STATION WITH 3 X 22KW PUMPS AND CT METERING
DATE 20-11-06
SHEET 2 OF 3
REV
DRAWN R.J.Mc.
CHECKED
DRAWING NO
CD-3201-06