

## POWER CABLES

CABLE NUMBER	FROM DESCRIPTION	TO DESCRIPTION	CORES	SIZE (mm <sup>2</sup> )	MATERIAL
PF1EP01-PC01	SUPPLY AUTHORITY	CT COMPARTMENT (PF1EP01)	4C	(REFER TABLE BELOW)	X90 COPPER
PF1EJ01-PC01	GENERATOR PLUG J/B (PF1EJ01)	MAIN DISTRIBUTION COMPARTMENT (PF1ED01)	4C	(REFER TABLE BELOW)	X90 COPPER
PF1EM01-PC01	CT COMPARTMENT (PF1EP01)	MAIN SWITCH COMPARTMENT (PF1EM01)	4C	(REFER TABLE BELOW)	X90 COPPER
PF1ED01-PC01	MAIN SWITCH COMPARTMENT (PF1EM01)	MAIN DISTRIBUTION COMPARTMENT (PF1ED01)	4C	-	X90 COPPER
QB1PP01-PC01	JUNCTION BOX (QB1EJ01)	PUMP No 1 MOTOR (QB1PP01)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP01-PC02	PUMP No 1 VSD COMPARTMENT (PF1EC02)	JUNCTION BOX (QB1EJ01)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP01-PC03	PUMP No 1 PHF COMPARTMENT (PF1EC01)	PUMP No 1 VSD COMPARTMENT (PF1EC02)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP01-PC04	MAIN DISTRIBUTION COMPARTMENT (PF1ED01)	PUMP No 1 PHF COMPARTMENT (PF1EC01)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP02-PC01	JUNCTION BOX (QB1EJ01)	PUMP No 2 MOTOR (QB1PP02)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP02-PC02	PUMP No 2 VSD COMPARTMENT (PF1EC04)	JUNCTION BOX (QB1EJ01)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP02-PC03	PUMP No 2 PHF COMPARTMENT (PF1EC03)	PUMP No 2 VSD COMPARTMENT (PF1EC04)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
QB1PP02-PC04	MAIN DISTRIBUTION COMPARTMENT (PF1ED01)	PUMP No 2 PHF COMPARTMENT (PF1EC03)	3C + E +2C Control	(REFER TABLE BELOW)	X90 COPPER SCREENED
PF1EC05-PC01	CONTROL COMPARTMENT (PF1EC05)	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	2C + E	2.5	ORANGE CIRC
PF1EC06-PC02	TELEMETRY COMPARTMENT (PF1EC06)	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	2C + E	2.5	ORANGE CIRC
PF1EC05-PC03	CONTROL COMPARTMENT (PF1EC05)	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	2C + E	2.5	ORANGE CIRC

SUPPLY CABLE SIZE	
MOTOR RATING	CABLE SIZE
30kW	50mm <sup>2</sup>
37kW	70mm <sup>2</sup>
45kW	95mm <sup>2</sup>
55kW	120mm <sup>2</sup>
75kW	185mm <sup>2</sup>
90kW	2 x 95mm <sup>2</sup>
110kW	2 x 120mm <sup>2</sup>
132kW	2 x 150mm <sup>2</sup>
160kW	2 x 185mm <sup>2</sup>

MOTOR CABLE SIZE	
MOTOR RATING	CABLE SIZE
30kW	16mm <sup>2</sup>
37kW	25mm <sup>2</sup>
45kW	35mm <sup>2</sup>
55kW	50mm <sup>2</sup>
75kW	70mm <sup>2</sup>
90kW	95mm <sup>2</sup>
110kW	120mm <sup>2</sup>
132kW	150mm <sup>2</sup>
160kW	185mm <sup>2</sup>

## CONTROL CABLES

CABLE NUMBER	FROM DESCRIPTION	TO DESCRIPTION	CORES	SIZE (mm <sup>2</sup> )	MATERIAL
PF1EC02-CC01	PUMP No 1 VSD COMPARTMENT (PF1EC02)	CONTROL COMPARTMENT (PF1EC05)	10pr + E	0.5	DECRON SCREENED
QB1PP01-CC01	JUNCTION BOX (QB1EJ01)	PUMP No 1 MOTOR (QB1PP01)	-	-	MANUFACTURER CABLE
QB1EJ01-CC01	CONTROL COMPARTMENT (PF1EC05)	JUNCTION BOX (QB1EJ01)	12pr + E	0.5	DECRON SCREENED
QB1EF01-CC01	CONTROL COMPARTMENT (PF1EC05)	PUMP No 1 PHF COMPARTMENT (PF1EC01)	1pr + E	0.5	DECRON SCREENED
PF1EC04-CC01	PUMP No 2 VSD COMPARTMENT (PF1EC04)	CONTROL COMPARTMENT (PF1EC05)	10pr + E	0.5	DECRON SCREENED
QB1PP02-CC01	JUNCTION BOX (QB1EJ01)	PUMP No 2 MOTOR (QB1PP02)	-	-	MANUFACTURER CABLE
QB1EJ01-CC02	CONTROL COMPARTMENT (PF1EC05)	JUNCTION BOX (QB1EJ01)	12pr + E	0.5	DECRON SCREENED
QB1EF02-CC01	CONTROL COMPARTMENT (PF1EC05)	PUMP No 2 PHF COMPARTMENT (PF1EC03)	1pr + E	0.5	DECRON SCREENED
PF1ED01-COM1	CONTROL COMPARTMENT (PF1EC05)	MAIN DISTRIBUTION COMPARTMENT (PF1ED01)	1pr + E	0.5	DECRON SCREENED
QB1CA01FIT1-CC01	CONTROL COMPARTMENT (PF1EC05)	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	2pr + E	0.5	DECRON SCREENED
QB1CA01FE1-CC01	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	FLOW SENSING ELEMENT (QB1 CA01 FE1)	-	-	MANUFACTURER CABLE
QB1SA01LIT1-CC01	CONTROL COMPARTMENT (PF1EC05)	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	4pr + E	0.5	DECRON SCREENED
QB1SA01LE1-CC01	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	WET WELL LEVEL SENSING ELEMENT (QB1 SA01 LE1)	-	-	MANUFACTURER CABLE
QB1SA02LIT1-CC01	CONTROL COMPARTMENT (PF1EC05)	INSTRUMENT DISTRIBUTION COMPARTMENT (PF1ED02)	1pr + E	0.5	DECRON SCREENED
QB1SA02LE1-CC01	JUNCTION BOX (QB1EJ01)	EMERG STORAGE LEVEL SENSING ELEMENT (QB1 SA02 LE1)	-	-	MANUFACTURER CABLE
QB1EJ01-CC03	TELEMETRY COMPARTMENT (PF1EC06)	JUNCTION BOX (QB1EJ01)	10pr + E	0.5	DECRON SCREENED
QB1SA01LS1-CC01	JUNCTION BOX (QB1EJ01)	WET WELL HIGH LEVEL FLOAT SW (QB1 SA01 LS1)	2C + E	1.5	X90 COPPER SUBMERSIBLE
QB1SA01LS3-CC01	JUNCTION BOX (QB1EJ01)	WET WELL HIGH HIGH LEVEL FLOAT SW (QB1 SA01 LS3)	2C + E	1.5	X90 COPPER SUBMERSIBLE
QB1SA01LS5-CC01	JUNCTION BOX (QB1EJ01)	WET WELL OVERFLOW FLOAT SW (QB1 SA01 LS5)	2C + E	1.5	X90 COPPER SUBMERSIBLE
QB1SA01LS7-CC01	JUNCTION BOX (QB1EJ01)	WET WELL EMERG STGE INFLOW FLOAT SW (QB1 SA01 LS7)	2C + E	1.5	X90 COPPER SUBMERSIBLE
PB1CA01FS1-CC01	JUNCTION BOX (QB1EJ01)	WET WELL FLOW SW (PB1 CA01 FS1)	2C + E	1.5	X90 COPPER
QB1SA02LS1-CC01	JUNCTION BOX (QB1EJ01)	EMERG STORAGE HIGH LEVEL FLOAT SW (QB1 SA02 LS1)	2C + E	1.5	X90 COPPER SUBMERSIBLE
QB1EJ01-CC04	CONTROL COMPARTMENT (PF1EC05)	JUNCTION BOX (QB1EJ01)	1pr + E	1.5	DECRON SCREENED
PB1VS05-CC01	JUNCTION BOX (QB1EJ01)	WET WELL SOLENOID VALVE (PB1VS05)	2C + E	1.5	X90 COPPER

REVISIONS

No.	DATE	DESCRIPTION	APP'D
2	27/9/21	SPLIT CONTROL & TELEMETRY COMPARTMENT INTO SEPARATE COMPARTMENTS.	P.S.
1	20/5/21	TABLES REMOVED FROM DRG A1-52795.	P.S.

REFERENCES

PLAN No.	TITLE
A1-52770	STD SPS - PUMP STN 30kW TO 160kW (VSD) - CT METERED - I & C - DRG INDEX

DESIGNED BY:



DO NOT SCALE	GIPPSLAND WATER DRAWING STATUS	STANDARD DRAWING	GIPPSLAND WATER FACILITY CODE <b>XXCPXX</b>
CERTIFICATION OF COMPLIANCE WITH GIPPSLAND WATER'S DESIGN & DRAFTING REQUIREMENTS. DESIGNED: 20/05/2021 - STD DRG DRAWN: 20/05/2021 - OPT/RJ CHECKED: 21/05/2021 - P STEWART		GIPPSLAND WATER STANDARD SEWERAGE PUMP STATION PUMP STATION 30kW TO 160kW (VSD) - CT METERED SUPPLY CUBICLE & VSD CUBICLE CABLE DETAILS	
		DRAWING No. <b>A1-73206</b>	REV. <b>2</b>