

CITY OF GOLD COAST

SEWERAGE PUMPING STATION DA15

60 STAPYLTON JACOBS WELL ROAD, STAPYLTON

ELECTRICAL WORKS

DRAWING No.	SHEET No.	Rev	DRAWING TITLE
P044075.000	01	0	COVER SHEET & DRAWING INDEX
P044075.001	02	0	MAIN SWITCHBOARD SINGLE LINE DIAGRAM
P044075.002	03	0	MAIN SWITCHBOARD POWER DISTRIBUTION SCHEMATIC WIRING DIAGRAM
P044075.003	04	0	COMMON CONTROL - RTU RADIO SCHEMATIC WIRING DIAGRAM 1 OF 3
P044075.004	05	0	COMMON CONTROL - LEVEL CONTROL SCHEMATIC WIRING DIAGRAM 2 OF 3
P044075.005	06	0	COMMON CONTROL - RTU SCHEMATIC WIRING DIAGRAM 3 OF 3
P044075.006	07	0	PUMP 1 - SOFT STARTER SCHEMATIC WIRING DIAGRAM
P044075.007	08	0	PUMP 2 - SOFT STARTER SCHEMATIC WIRING DIAGRAM
P044075.010	09	0	MAIN SWITCHBOARD NETWORK LAYOUT
P044075.011	10	0	MAIN SWITCHBOARD GENERAL ARRANGEMENT 1 OF 2
P044075.012	11	0	MAIN SWITCHBOARD GENERAL ARRANGEMENT 1 OF 2
P044075.015	12	0	MAIN SWITCHBOARD CONSTRUCTION NOTES
P044075.016	13	0	MAIN SWITCHBOARD EQUIPMENT SCHEDULE
P044075.017	14	0	MAIN SWITCHBOARD TELEMETRY POLE LOCATION

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2021/610

Dated: 10 March 2022

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Registered Professional Engineer of Queensland Certification

I, JOEL ANDERSON being a Registered Professional Engineer registered under the provision of the Professional Engineers act 2002 (as amended) hereby certify that the as-constructed information shown on this drawing is a true and correct record of the Works performed.

RPEQ No. 17916
Signed: [Signature] Date: 21-10-21

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JPR Project No.: P.044075.D.01

Design Project Officer B. JONES	Design Checked – Statutory Certifier						
Designed/Drawn B.J. / P.H.	Drawing Checked						
GCCC Project Records File Number							
GCCC Project Identifier\CAD File Name P0440075.000_0							
GCCC Contract Records File Number		Issue	Description	Name	Initial	Date	
		0	FOR APPROVAL	P. HOUSTON	P.H.	20-10-21	
Design not to be amended without authorisation by Statutory Certifier							

Bar Scales

CITY OF GOLD COAST

SEWAGE PUMP STATION DA15
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON

DRAWING INDEX & COVER SHEET
ELECTRICAL WORKS

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Project Number	
Sheet of	Issue
1 OF 14	0
GCCC Drawing Number P0440075.000	

○	DEVICE TERMINAL
■	VSD TERMINAL
□	DISCONNECT BOX TERMINAL
①	MSB TERMINAL
⊗	PUMP MONITORING RELAY TERMINAL



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Project Number	
Sheet of	Issue
2 OF 14	0
GCCC Drawing Number	
P0440075.001	

LEGEND

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SEWAGE PUMP STATION DA15
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON

MAIN SWITCHBOARD
POWER DISTRIBUTION SCHEMATIC WIRING DIAGRAM

Project Number

Sheet of Issue

3 OF 14

0

GCCC Drawing Number

P0440075.002

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Design Project Officer

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GCCC Project Records File Number

GCCC Project Identifier\-\CAD File Name

P0440075.002_0

GCCC Contract Records File Number

Design Checked - Statutory Certifier

Signed:

Drawing Checked

Signed:

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P. HOUSTON

P.H.

20-10-21

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RS485 COMM'S CABLE
PIN CONFIGURATION
FOR MOTOR STARTERS

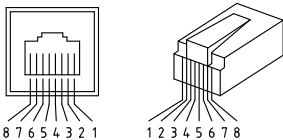
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2	NOT USED	2	NOT USED
3	NOT USED	3	NOT USED
4	NOT USED	4	NOT USED
5	BLU/WHT	5	BLU/WHT
6	BLUE	6	BLUE
7	NOT USED	7	NOT USED
8	NOT USED	8	NOT USED

RTU DOL / SOFT
STARTER
MODULE

ETHERNET COMM'S CABLE
PIN CONFIGURATION

RD+	1	GRN/WHT	1	RD+
RD-	2	GRN	2	RD-
TD+	3	ORG/WHT	3	TD+
TD-	4	BLU	4	TD-
TD+	5	BLU/WHT	5	TD+
TD-	6	ORG	6	TD-
TD+	7	BRN/WHT	7	TD+
TD-	8	BRN	8	TD-

ETHERNET RJ-45 CONNECTOR
ORIENTATION LEGEND



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SEWAGE PUMP STATION DA15
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON

COMMON CONTROL - RTU RADIO
SCHEMATIC WIRING DIAGRAM 1 OF 3

Project Number

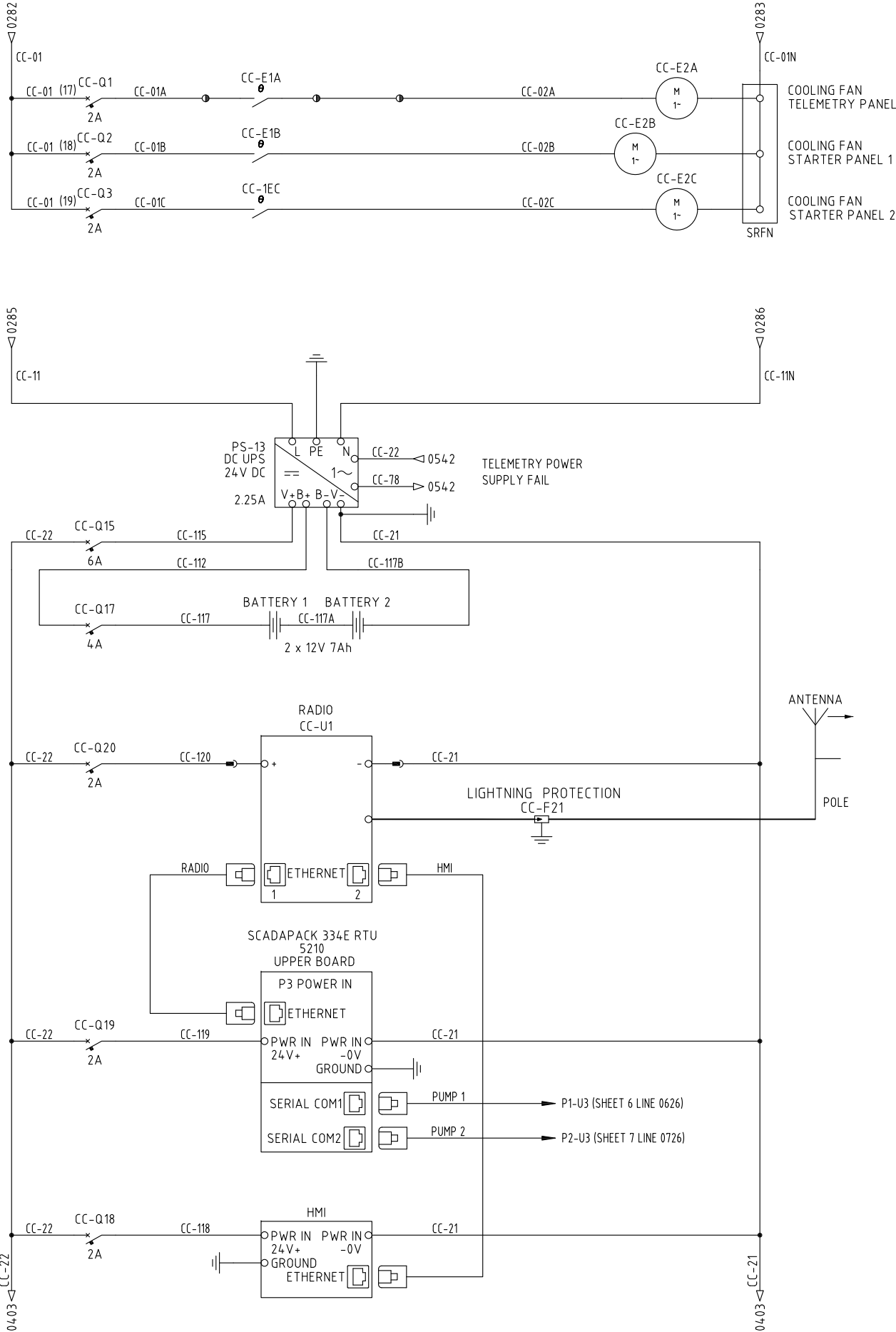
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GCCC Drawing Number

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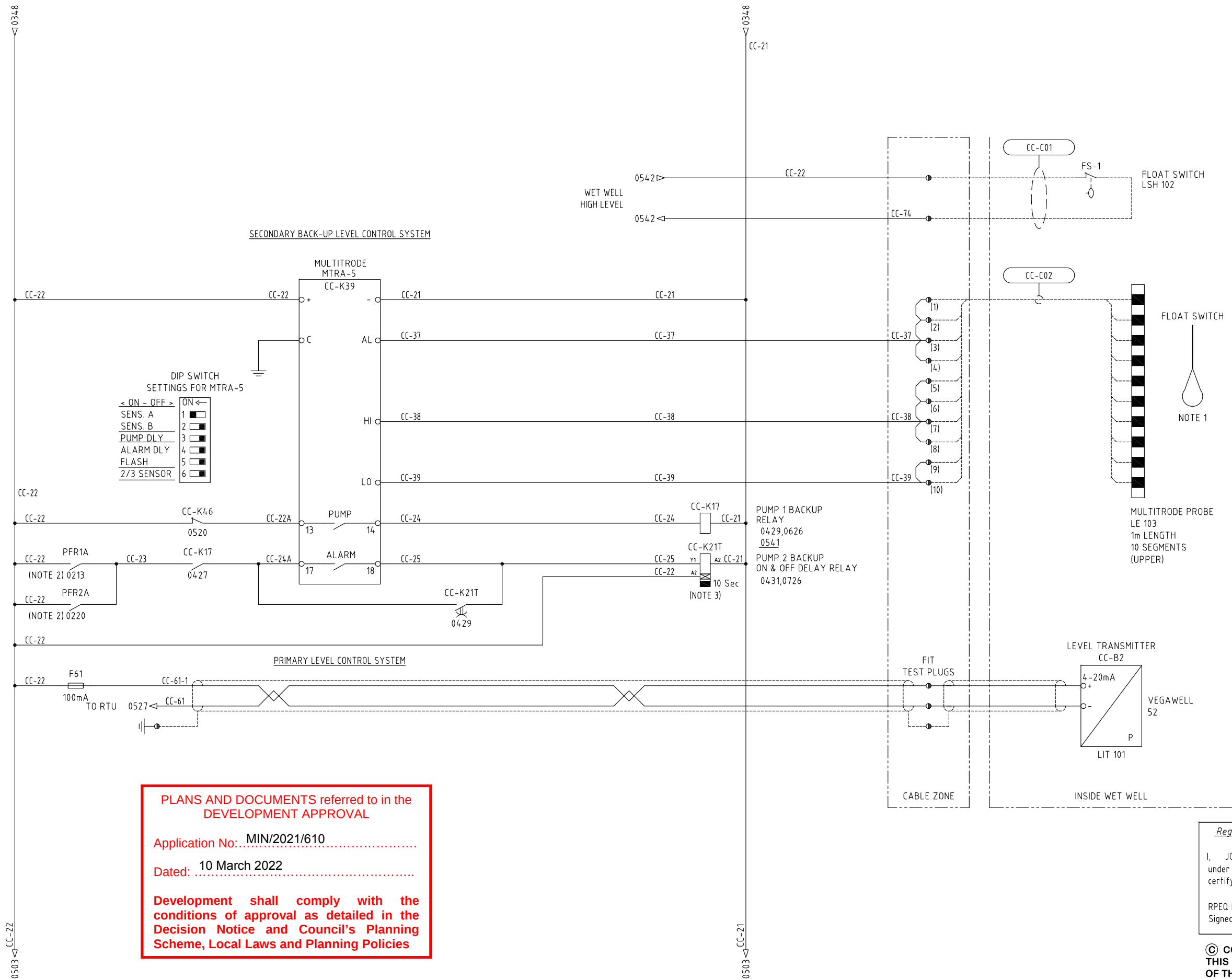
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Signed:									
Drawing Checked									
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1. FS-1 INSTALLED SO THE BOTTOM OF THE FLOAT IS LEVEL WITH SEGMENT 6.
2. ENERGEX PRF1A AND GENERATOR PFR2A CONTACTS ENSURES CC-K21T IS NOT ENERGISED DURING POWER OUTAGE.
3. TIMER CC-K21T SET ON (AC)



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LEGEND

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SCADAPACK
334E RTU MODULE
TBUP334-EA55-AB10S

UPPER BOARD 5210

LOWER BOARD 5607

ADDRESS
4 3 2 1 0 ↓

P3
+
-
PWR
11-30V

CC-57 0 RAIN GAUGE
CC-58 1 CNT RAIN GAUGE
CC-59 2 SPARE

P3
+
-
PWR
11-30V

0 SPARE
1 AO SPARE
COM

P4
0 DISCHARGE PRESSURE
1 WET WELL LEVEL
2 CONDUCTIVITY
3 TEMPERATURE
4 AI FLOW
5 SPARE
6 SPARE
7 SPARE
COM

P5
0 P1 RUN
1 P2 RUN
2 P1 FAULT/SEAL FAIL
3 P2 FAULT/SEAL FAIL
4 DI PUMP 1 AUTO
5 PUMP 2 AUTO
6 WET WELL HIGH LEVEL
7 SECURITY OK
COM

STORAGE MODE BACKUP DISABLE

REMOTE FAULT RESET

RTU CONTROL REQUEST

PUMP 2 START

PUMP 1 START

PUMP 2 DUTY HELD/STORAGE

PUMP 1 DUTY HELD/STORAGE

GENERATOR PFR

ENERGEX PFR

NON CRITICAL FAULT

DRY WELL ALARM

RTU IN CONTROL

TELEMETRY POWER SUPPLY FAIL

PUMP 2 DUTY SELECT

PUMP 1 DUTY SELECT

BACKUP PERMISSIVE
0427

REMOTE FAULT RESET
RELAY
0622,0639,0722,0739

P2 REMOTE RUN
RELAY
0728

P1 REMOTE RUN
RELAY
0628

INTRUDER DOOR SWITCHES

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CITY OF
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SEWAGE PUMP STATION DA15
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON

COMMON CONTROL - RTU
SCHEMATIC WIRING DIAGRAM 3 OF 3

Project Number		
Sheet	of	Issue
6 OF 14		0
GCCC Drawing Number P0440075.005		

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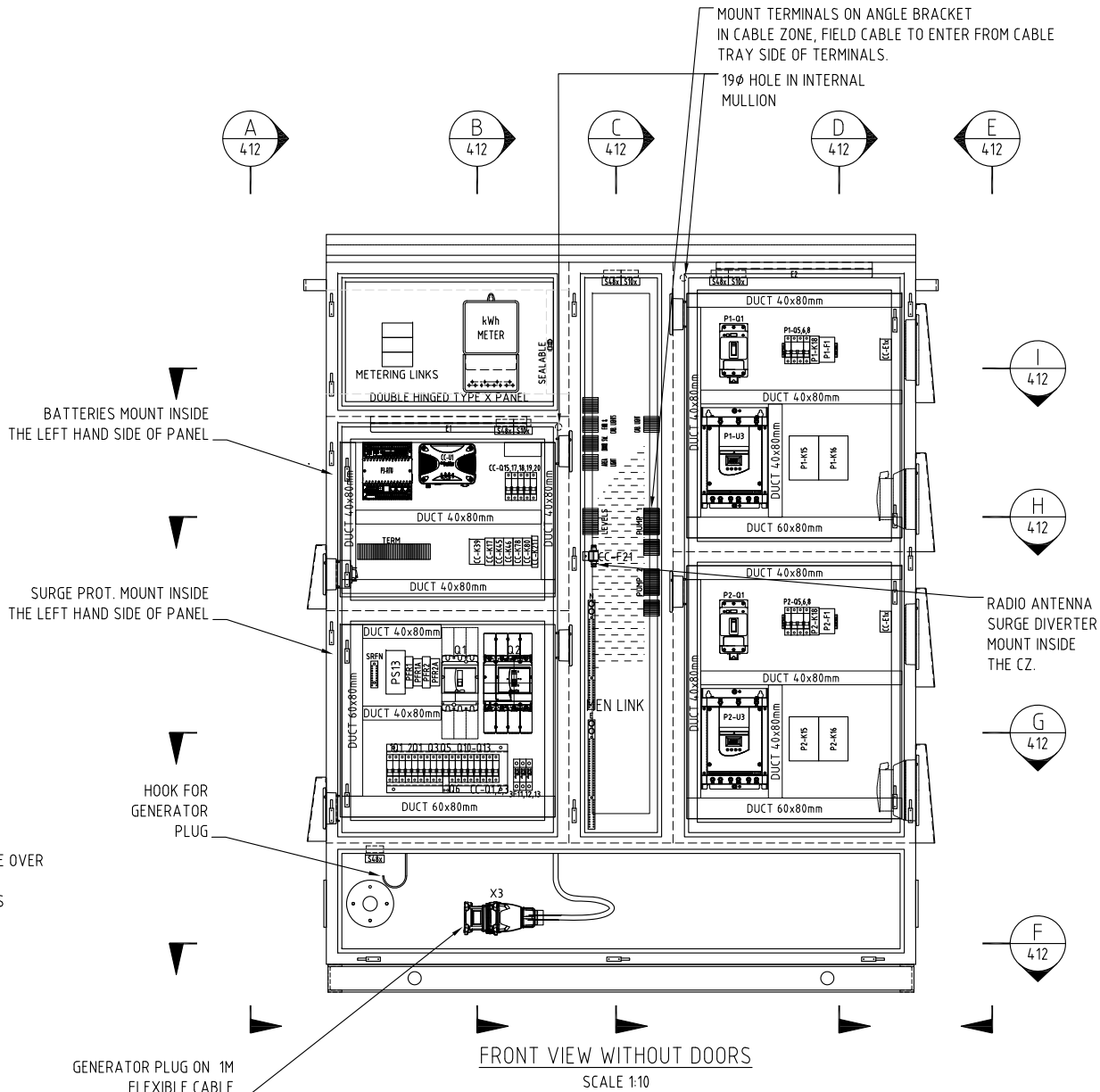
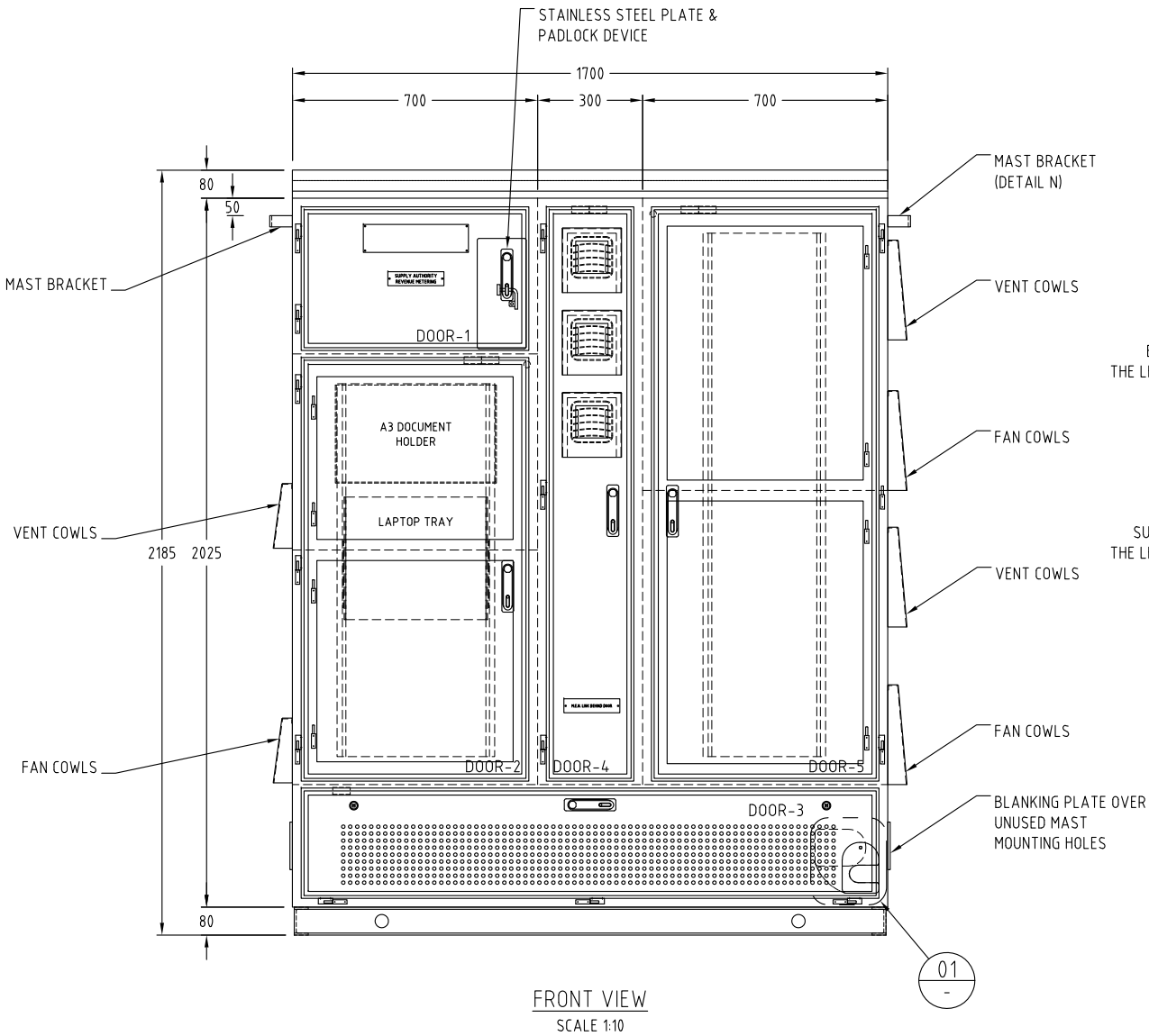
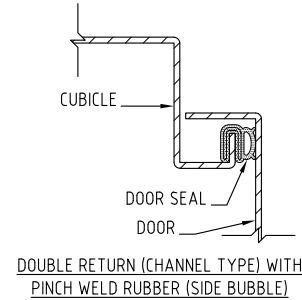
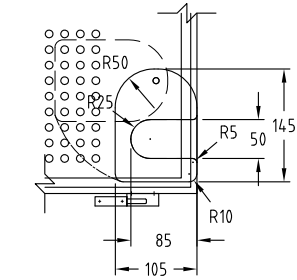
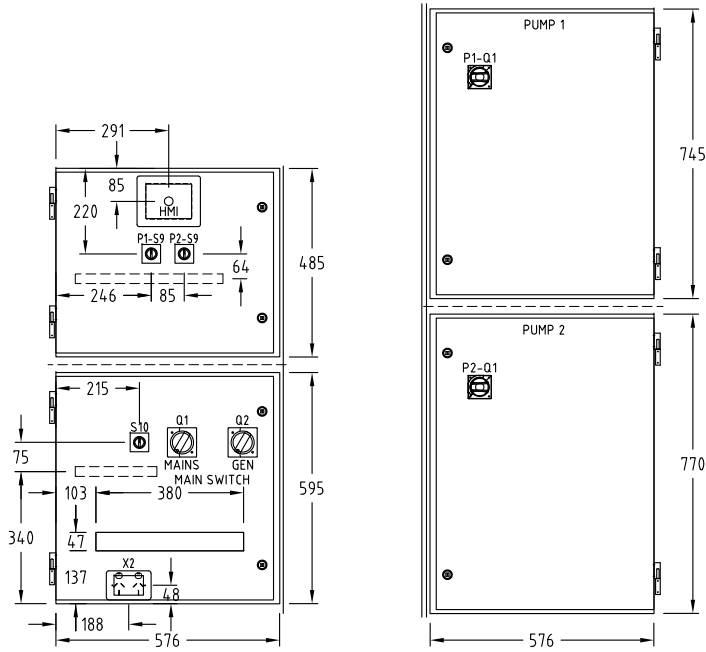
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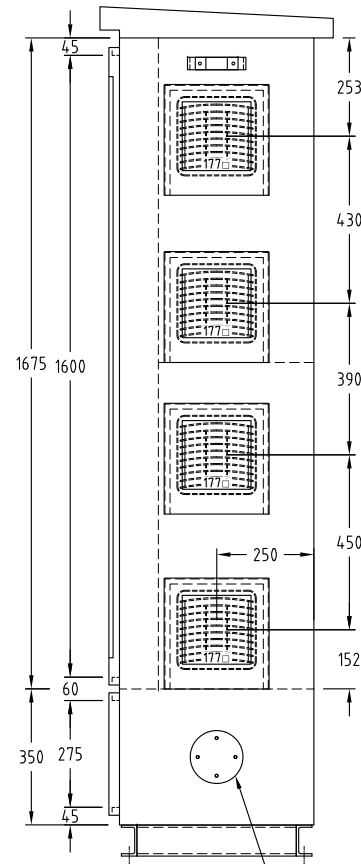
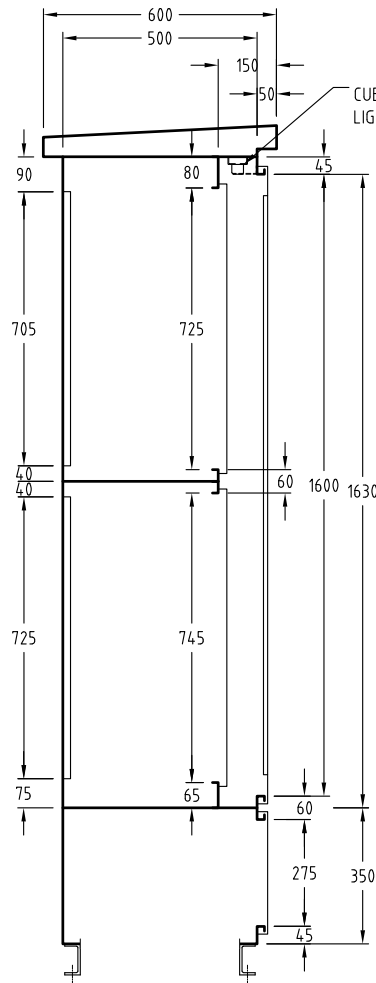
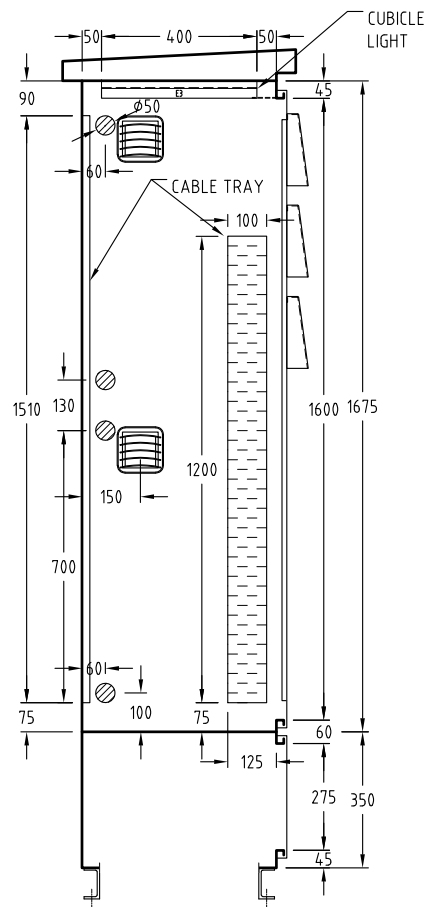
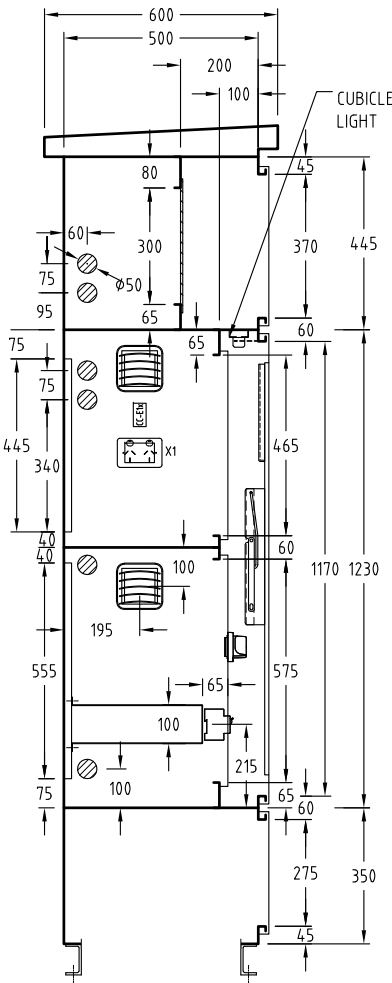
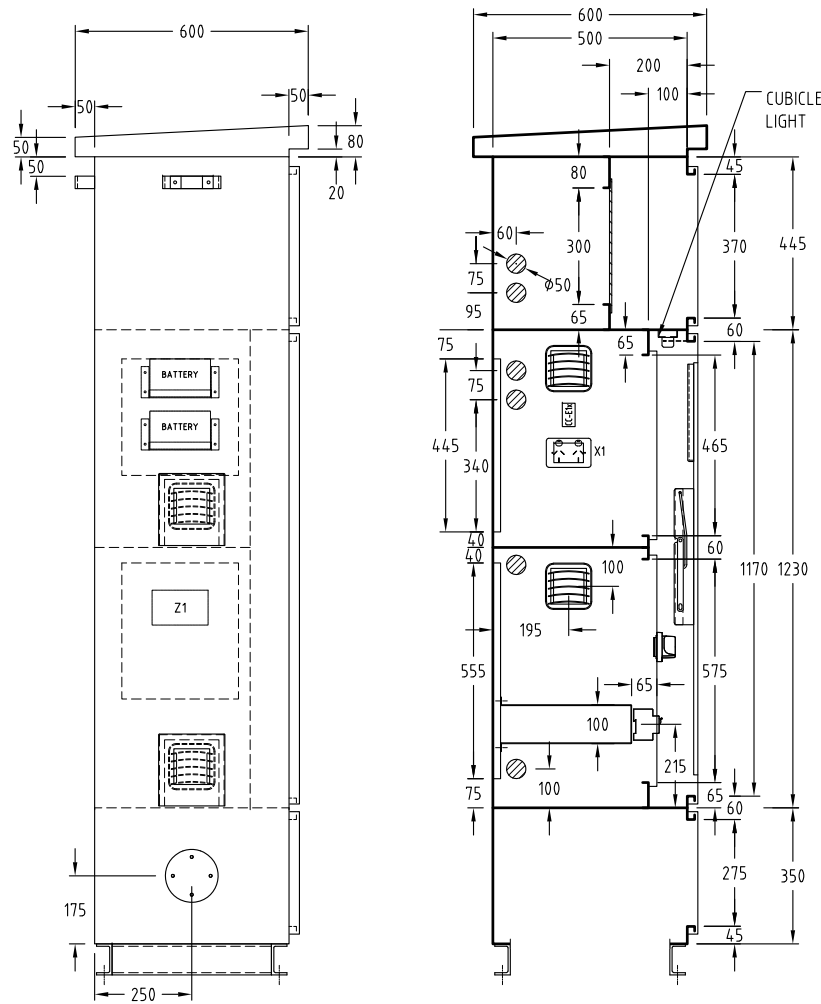
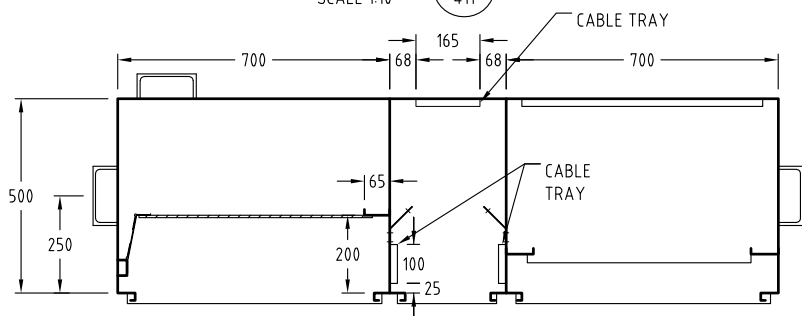
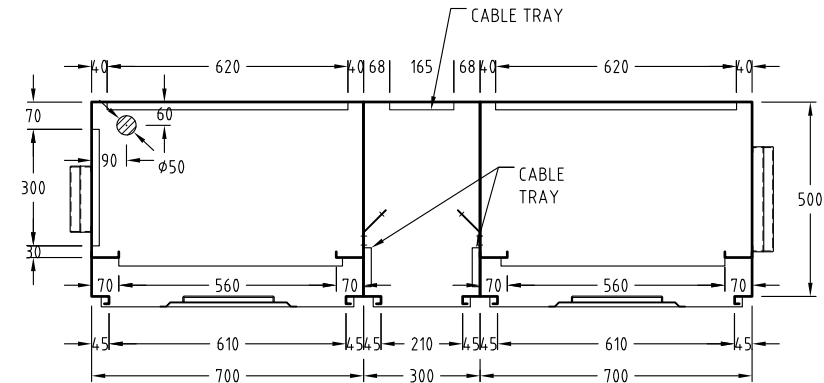
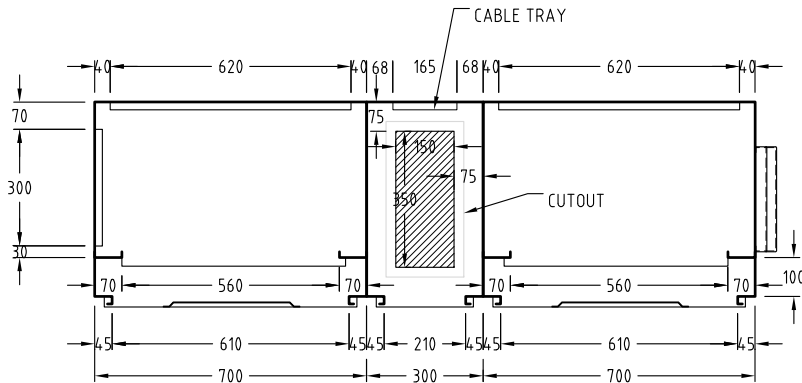
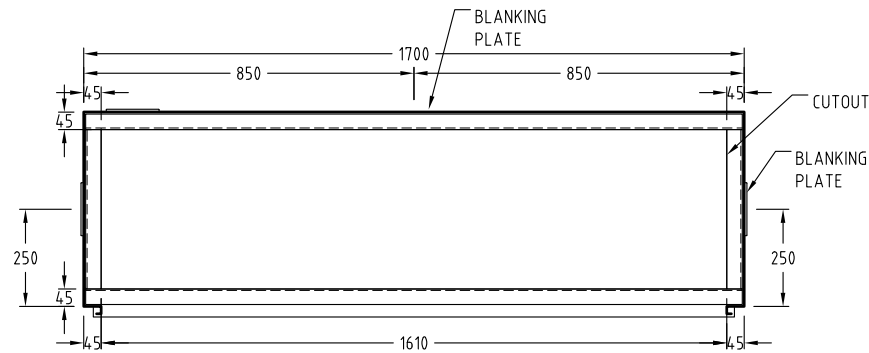
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FIT BLANKING PLATES
OVER MOUNTING HOLES FOR
UNUSED MOUNTING POINTS

SEWAGE PUMP STATION DA15
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON

MAIN SWITCHBOARD
GENERAL ARRANGEMENT 2 OF 2

Project Number		
Sheet	of	Issue
11	OF 14	0
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P0440075.012		

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PROJECT:	CITY OF GOLD COAST				
JOB NO:	P0440075D01				
ITEM:	MCC CONSTRUCTION NOTES				
DOCUMENT NO:	REFER DRAWING NUMBER				
DESIGN DETAILS					
STANDARDS	SWITCHBOARD (ELECTRICAL) AS/NZS 3000, AS/NZS 61439 SERIES				
PLACE OF INSTALLATION	OUTDOOR				
TYPE OF INSTALLATION	STATIONARY				
S.C.A. DESIGN	CUSTOM SINGLE SIDED				
S.C.A. DETAIL	ACCESS	CONNECTION	CABLE ENTRY	CABLE EXIT	
	FRONT	FRONT	BOTTOM	BOTTOM	
CURRENT RATING	100 A				
FREQUENCY	50Hz				
RATED VOLTAGE (OPERATIONAL)	400VAC 3 PHASE + NEUTRAL				
CONTROL VOLTAGE	230 VAC / 24 VDC				
INSULATION RATING	0.6 / 1 kV				
SHORT CIRCUIT WITHSTAND CURRENT	10 kA FOR 1 SECOND				
TYPE TESTED IN ACCORDANCE WITH	NOT SPECIFIED				
ARC FAULT CONTAINMENT	NOT SPECIFIED				
SEGREGATION CLASSIFICATION	GENERAL	STARTER COMPARTMENTS	DISTRIBUTION / COMMON CONTROLS		
	FORM 1 TO SA/SNZ TR 61439.0:2016	FORM 1 TO SA/SNZ TR 61439.0:2016	FORM 1 TO SA/SNZ TR 61439.0:2016		
DEGREE OF PROTECTION (NOMINAL)	IP56 TO AS 60529-2004	OUTDOORS			
INTERNAL DEGREE OF PROTECTION	IP2X TO AS/NZS 3000:2018 APPENDIX G (SEE SHROUDING MEASURES BELOW)				
DESIGN AMBIENT TEMP. (24hr AVERAGE)	40°C				
DESIGN BUSBAR TEMP. RISE	50°C ABOVE AMBIENT				
EARTHING SYSTEM	MEN				
MEN LINK	REQUIRED				
WEIGHT (APPROX.)	_____ kg				
CONSTRUCTION DETAILS					
CUBICLE AND DOORS	MATERIAL	FINISH			
	3mm THICK ALUMINIUM SHEET MARINE GRADE	PAINTED (SEE PAINTING BELOW)			
EQUIPMENT PANELS	3mm THICK ALUMINIUM SHEET MARINE GRADE	PAINTED (SEE PAINTING BELOW)			
ESCUTCHEONS	3mm THICK ALUMINIUM SHEET MARINE GRADE	PAINTED (SEE PAINTING BELOW)			
FIXINGS	ALL FIXINGS SHALL BE 316 GRADE STAINLESS STEEL				
WELDING	FULLY WELDED ON FACIA AND EXTERNAL JOINTS				
SEALING AGAINST SEWER GAS	SWITCHBOARD TO BE SEALED TO LIMIT INGRESS OF SEWER GASES, APPLY SILICONE SEALANT TO JOINTS AS NECESSARY				
STIFFENING	TO PREVENT WARPING AND FORM A RIGID ENCLOSURE				
	FOLDED DOOR STIFFENERS WELDED TO BACK OF DOORS WHERE SHOWN				
PLINTH	MATERIAL	TYPE	SIZE	FINISH	
	ALUMINIUM MARINE GRADE	PARALLEL FLANGE CHANNEL	80 x 40mm PFC	PAINTED	
LIFTING	VIA 38mm HOLES IN PLINTH, SUPPLY AND FIT BLANKING PLUGS AS NECESSARY				
GLAND PLATES	MATERIAL	THICKNESS	SEALING	FIXING	
	ALUMINIUM	6mm	SELF ADHESIVE POLYETHYLENE CLOSED CELL 6 x 24mm MF7493/ 624 - NOTE FIXINGS AT 150mm MAX. CENTRES	M6 HEX BOLTS, FLAT WASHERS ONLY & CLOSED END (BLIND) NUTSERTS	
	GLAND PLATES FITTED INTERNALLY, EARTHED AS NECESSARY				
DOOR SEAL TYPE	DOUBLE RETURN - CHANNEL TYPE				
DOOR SEAL GASKET	PINCH WELD RUBBER (SIDE BUBBLE)				
HINGES	DOORS	STAINLESS STEEL LIFT OFF TYPE			
	ESCUTCHEONS	STAINLESS STEEL LIFT OFF TYPE			
DOOR HANDLE / LOCKS	HANDLE / LOCK TYPE	MATERIAL / FINISH		LOCKING	
	VANDAL PROOF SWING HANDLE	STAINLESS STEEL		PADLOCKABLE	
ESCUTCHEON LOCKS	1/4 TURN WITH SQUARE SLOTTED INSERT & LEVER TAB	STAINLESS STEEL		N/A	
CABLE ZONE LOCKS / FIXINGS	VANDAL PROOF SWING HANDLE	STAINLESS STEEL		PADLOCKABLE	
BREEZEWAY LOCKS / FIXINGS	VANDAL PROOF SWING HANDLE	STAINLESS STEEL		PADLOCKABLE	
BREEZEWAY LOCKS / FIXINGS	1/4 TURN WITH SQUARE SLOTTED INSERT & LEVER TAB	STAINLESS STEEL		N/A	
HOOD FIXINGS	SLOPING HOOD WELDED TO CUBICLE BODY				
THREE POINT LOCKING	ROLLER TYPE - STAINLESS STEEL				
DOOR EARTHING	FIT EARTH STUD FACILITY TO ALL DOORS & HINGED ESCUTCHEONS AND ADJACENT CUBICLE BODY				
	EARTH ALL DOORS & HINGED ESCUTCHEONS WITH 6.0mm² (84/0.30) FLEXIBLE TINNED EARTH CABLE				
DOOR OPENING	110" MINIMUM				
DOOR STAYS	JPR SLIDING DROP STAY				
	REQUIRED ON ALL DOORS				
DRAWING HOLDER	TYPE	PLACEMENT			
	A4 - 235(W) x 250(H) x 15mm(D)	FIT TO REAR OF DOOR		REFER DRAWINGS FOR DETAIL	
LEGEND CARD HOLDER	215(W) x 315mm(H)	FIT TO REAR OF DOOR		REFER DRAWINGS FOR DETAIL	
LAPTOP TRAY	TYPE & PLACEMENT				
	JPR SLIDING FOLD DOWN TRAY 400(W) x 350mm(D) TO REAR OF DOOR		REFER DRAWINGS FOR DETAIL		
	WORKING HEIGHT ABOVE GROUND / FLOOR LEVEL TO BE 1100mm (STANDARD)				
VENTILATION	PROPRIETARY FILTER FAN WITH GRILL & FILTER		REFER DRAWINGS FOR DETAIL		
	VENTILATION OPENINGS IN BREEZEWAY FITTED WITH STAINLESS STEEL MESH GAUZE ONLY		REFER DRAWINGS FOR DETAIL		
COWLS / BLAST SHEILDS	FIT FIXED COWLS OVER VENTILATION OPENINGS				
DOOR SWITCH BRACKETS	FIT DOOR SWITCH BRACKETS TO CUBICLE BODY		REFER DRAWINGS FOR DETAIL		
EARTH CONTINUITY	ALL EXPOSED CONDUCTIVE PARTS SHALL BE INTERCONNECTED TOGETHER AND TO THE PROTECTIVE CONDUCTOR OF THE SUPPLY OR VIA AN EARTHING CONDUCTOR TO THE EARTHING ARRANGEMENT I.E. GLAND PLATES, DOORS, ESCUTCHEONS, REMOVABLE COVERS, SUN SHIELDS, COWLS, ETC.				
	THESE INTERCONNECTIONS MAY BE ACHIEVED EITHER BY METAL SCREWED CONNECTIONS, WELDING OR OTHER CONDUCTIVE CONNECTIONS OR BY A SEPARATE PROTECTIVE CONDUCTOR				



J. & P. RICHARDSON

INDUSTRIES PTY LTD ELECTRICAL CONTRACTORS AND ENGINEERS

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Design Project Officer B. JONES	Design Checked – Statutory Certifier
Designed/Drawn B.J. / P.H.	Signed:
GCCC Project Records File Number	Drawing Checked
	Signed:
GCCC Project Identifier\---CAD File Name P0440075.015_0	
GCCC Contract Records File Number	

0	FOR APPROVAL	P. HOUSTON	P.H.	20-10-21					
Issue	Description	Name	Initial	Date					

Design not to be amended without authorisation by Statutory Certifier

SUPPLY AUTHORITY		QLD ECMM SPECIFIC REQUIREMENTS	
METERING LOCKS	HANDLE / LOCK TYPE	MATERIAL / FINISH	LOCKING / SEALING
	VANDAL PROOF SWING HANDLE	STAINLESS STEEL	PADLOCKABLE
METER PANEL	DOUBLE HINGED 6mm THICK LAMINATED PHENOLIC RESIN FIXED WITH M6 S/S STUD WITH SEALING FACILITY		
EQUIPMENT SHROUDING			
IP2X (FINGER)	LINE SIDE OF MAIN SWITCH, LINE SIDE OF COMPARTMENT ISOLATORS AND PROTECTIVE DEVICES		
	COMPARTMENTS WHERE ACCESS IS NOT RESTRICTED BY THE USE OF DOOR INTERLOCKS E.G. ISOLATOR OR PROTECTIVE DEVICE		
BUSBAR ZONES	PROVIDE WARNING LABELS ON DOORS AND REMOVABLE COVERS WHICH PROVIDE DIRECT ACCESS TO LIVE BUSBARS		
	RESTRICT ACCESS TO LIVE BUSBARS WITH DOOR LOCKING DEVICES OR REMOVABLE COVERS THAT REQUIRE THE USE OF A TOOL TO GAIN ACCESS		
	SHROUD ANY LIVE BUSBARS (TO IP1X) THAT ARE 100mm OR CLOSER TO ACCESS OPENINGS AND BELOW 1800mm FROM THE FLOOR		
PAINTING			
PAINT	POLYESTER POWDER COAT TO 50µM (MICRONS) MINIMUM THICKNESS		
PREPARATION & APPLICATION	REFER J & P RICHARDSON PAINTING PROCEDURES MANUAL (REFER QPRM-151)		
EXTERIOR / DOOR COLOUR	PAINT FINISH	COLOUR TO AS2700 / EQUIVELANT	ADDITIONAL COATINGS
	FLAT FINISH (SMOOTH)	G54 MIST GREEN / DULUX PALE EUCALYPT	SOLAR RESISTANT / ANTI GRAFFITI
INTERIOR COLOUR	FLAT FINISH (SMOOTH)	G54 MIST GREEN / DULUX PALE EUCALYPT	N/A
EQUIPMENT PANEL COLOUR	FLAT FINISH (SMOOTH)	N14 WHITE / DULUX BRIGHT WHITE	N/A
ESCUTCHEON COLOUR	FLAT FINISH (SMOOTH)	N14 WHITE / DULUX BRIGHT WHITE	N/A
PLINTH COLOUR	FLAT FINISH (SMOOTH)	G54 MIST GREEN / DULUX PALE EUCALYPT	SOLAR RESISTANT / ANTI GRAFFITI
CABLE DETAILS			
POWER	V90 0.6 / 1 kV FLEXIBLE OR MULTI-STRANDED, MIN. SIZE 2.5mm²		
CONTROL	V90 0.6 / 1 kV TINNED FLEXIBLE, MIN. SIZE 1.0mm² (30/0.20)		
PROTECTION / METERING	V90 0.6 / 1 kV TINNED FLEXIBLE, MIN. SIZE 2.5mm² (50/0.25)		
MODULE TO MARSHALLING (PLC & RTU)	V90 0.6 / 1 kV TINNED FLEXIBLE 1.0mm² (32/0.20)		
WIRING DUCT	OPEN TYPE SLOTTED INSULATED WIRING DUCT WITH NARROW WEB (6mm) AND FITTED WITH SNAP-ON LID		
SEGREGATION OF DIFFERENT VOLTAGES	ALL CABLES OR EACH CONDUCTOR OF A MULTI-CORE CABLE SHALL BE INSULATED TO THE HIGHEST VOLTAGE PRESENT I.E. 0.6 / 1 kV AS NOTED ABOVE		
	PROPRIETARY CABLES (COAX, CAT5, DATA, ETC.) SHALL BE SEGREGATED FROM LOW VOLTAGE (230/400V) CIRCUIT CABLES E.G. RUN EXTERNAL TO DUCT OR SEGREGATED WITH LOOM TUBE IN DUCT AS APPROPRIATE		
WIRE COLOUR	CoGC STANDARD		
	POWER WIRING TO 16mm²	RED, WHITE, BLUE	
	POWER WIRING ABOVE 16mm²	RED WITH PHASE IDENTIFICATION AT CABLE ENDS	
	PHASE NEUTRAL	BLACK	
	EARTH	GREEN / YELLOW	
	CONTROL ACTIVE (240VAC)	ORANGE	
	CONTROL NEUTRAL (240VAC)	BLACK	
	CONTROL POSITIVE (24VDC)	PINK	
	CONTROL NEGATIVE (24VDC)	BROWN	
	THERMISTORS	WHITE - TWISTED PAIR	
	TELEMETRY (GENERAL)	VIOLET (ALL WIRING FROM RTU TO TERMINAL STRIP & TERMINAL STRIP TO INPUT / OUTPUT DEVICE)	
	ELECTRODES, MAS SENSORS	VIOLET (ALL WIRING FROM RTU TO TERMINAL STRIP & TERMINAL STRIP TO INPUT / OUTPUT DEVICE)	
	SCREENED ANALOGUE POSITIVE	WHITE - TWISTED PAIR	
	SCREENED ANALOGUE NEGATIVE	BLACK - TWISTED PAIR	
TERMINATIONS			
CONTROL CABLE IDENTIFICATION	BRADY OR EQUIVALENT MARKING SYSTEM (CLEAR PLASTIC SLEEVES WITH INSERTABLE TABS)		
CABLE ENDS	METAL FERRULES AND CRIMP LUGS AS NECESSARY		
	TWIN BOOT LACE PINS ARE ONLY PERMITTED WHERE THERE IS NO OTHER ALTERNATIVE		
MAINS INCOMING	DIRECT ONTO EQUIPMENT		
OUTGOING	TERMINALS		
CONTROL	TERMINALS		
TERMINAL RAILS	FIT CABLE ZONE TERMINAL RAILS TO 30° ANGLE MOUNTING BRACKETS		
LABELS			
MATERIAL INTERNAL	GRAVOPLY		
MATERIAL EXTERNAL	GRAVOPLY - UV RATED		
FIXINGS INTERNAL / EXTERNAL	316 GRADE STAINLESS STEEL METAL THREADS AND ADHESIVE		
MOUNTING	LABELS TO BE SECURED TO EQUIPMENT PANELS ABOVE EQUIPMENT		
GENERAL LABELS	WB - 4mm LETTERS		
INFORMATION / WARNING LABELS	YB - 6mm LETTERS		
DANGER LABELS	RW - 6mm LETTERS		
DRIVE LABELS	WB - 6mm LETTERS		
MAIN SWITCH LABELS	RW - 8mm LETTERS		
S.C.A. MAIN LABEL	WB - 20mm LETTERS		
	FIT LABEL WITH THE FOLLOWING WORDING IN A PROMINENT POSITION ON THE FRONT OF THE CABINET		
	DA15		
ASSEMBLY DESIGNATION MARKING	WB - 8mm & 5mm LETTERS		
NAMEPLATE	FIT NAMEPLATE IN A PROMINENT POSITION ADJACENT TO THE MAIN SWITCH		

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: MIN/2021/610

Dated: 10 March 2022

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

Registered Professional Engineer of Queensland Certification

I, JOEL ANDERSON being a Registered Professional Engineer registered under the provision of the Professional Engineers act 2002 (as amended) hereby certify that the as-constructed information shown on this drawing is a true and correct record of the Works performed.

RPEQ No. 17916
Signed: _____ Date: 21-10-21

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SEWAGE PUMP STATION DA15
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON

MAIN SWITCHBOARD
CONSTRUCTION NOTES

Project Number

Sheet of Issue

12 OF 14

0

GCCC Drawing Number

P0440075.015

Do not scale, use figured dimensions only PO Box 5042, Gold Coast MC 9729

S330 - 7.5W SOFT STARTER					
EQUIPMENT SCHEDULE					
ITEM No.	QTY	MAKE	CAT. No.	DESCRIPTION	LABEL
SUPPLY AUTHORITY METERING					
	3	IPD	S7125BWQ	FUSE HOLDER S7 BACK CONNECT CLEAR FUSE 2a/2b 125A	
	1			kWh METER POLYPHASE WHOLE CURRENT (SUPPLY AUTHORITY)	
	1	DORE ELECTRICS	135A4TB	NEUTRAL LINK 4 HOLE 140A (FIT TO REAR OF METER PANEL)	
POWER DISTRIBUTION					
1Q1, 2Q1	2	SCHNEIDER	A9F54302	CIRCUIT BREAKER IC60H 10kA 3P 2A C CURVE	WARNING FED FROM LINE SIDE OF MAIN SWITCH 1Q1, 2Q1
PRF1,2	2	CARLO GAVAZZI	DPB-01-C-M48W4	OVER & UNDER VOLTAGE PHASE SEQUENCE AND LOSS 380-415VAC 1 C/O 22.5mm	PRF1,2
PFR1A, 2A	2	SCHNEIDER	RXZE25114M	RELAY BASE RXZ RXM4	PFR1A, 2A
	2	SCHNEIDER	RXM4AB2P7	RELAY RXM4 LED INDICATION 4C/O 6A 240VAC	
Q1	1	SCHNEIDER	LV429770	CIRCUIT BREAKER NSX100F Micrologic 2.2 40-100A 36kA 3P	NORMAL SUPPLY MAIN SWITCH
Q2	1	SCHNEIDER	LV429780	CIRCUIT BREAKER NSX100F Micrologic 2.2 40-100A 36kA 4P	GENERATOR SUPPLY MAIN SWITCH
	2	SCHNEIDER	LV429338	ROTARY HANDLE EXTENDED NSX100/160/250 IP55	
	2	SCHNEIDER	LV429517	TERMINAL SHIELD LONG 3P NSX100/160/250 (x1)	
	2	SCHNEIDER	LV429518	TERMINAL SHIELD LONG 4P NSX100/160/250 (x1)	
	1	SCHNEIDER	LV429369	MECHANICAL INTERLOCK FOR MCCB WITH ROTARY HANDLES NSX100/160/250	
	3	DORE ELECTRICS	135A4TR	ACTIVE LINK 4 HOLE 140A	
X3	1	MARECHAL	3168017600	APPLIANCE INLET MALE D56 3P+N+E 380-440V 90A IP66	
(90A - LESS THAN 15kW PUMPS)	1	MARECHAL	514P0D35	STANDARD INSULATING HANDLE D56 STRAIGHT IP66	
	1	MARECHAL	316A426	APPLIANCE INLET DUST/SPLASH CAP/COVER D56 IP66	
Q3	1	SCHNEIDER	A9F54332	CIRCUIT BREAKER IC60H 10kA 3P 32A C CURVE	Q3
3F11, 3F12, 3F13	3	CRITEC	EDT230010R	SURGE DIVERTER EDT 300V 50kA	3F11, 3F12, 3F13
Q5	1	SCHNEIDER	A9D11816	RCD CIRCUIT BREAKER IC60H RCBO 10kA 1P+N 16A 30mA	Q5
X1, X2	2	CLIPSAL	2025	SOCKET OUTLET TWIN HORIZONTAL SWITCHED 250V 10A	
	1	CLIPSAL	449A	MOUNTING BLOCK 1 GANG TO SUIT ALL STANDARD SIZES	
	1	CLIPSAL	449AP	INSULATING BACK PLATE TO SUIT 449A	
	1	CLIPSAL	90B	INSULATING SHROUD TO SUIT STANDARD WALL PLATE	
S10	1	KRAUS & NAIMER	CA10 A290-621-FT2	SELECTOR SWITCH CA10 2 POS 1P ON/OFF 90deg	AREA LIGHTING
	1	JPR		LEXAN SHROUD	
E10	1	SAL	SE7199/30NDL/BK	LED FLOODLIGHT 30W 5000K IP65	
CC-S10A,B,C CC-S48A,B,C,D	7	DORE ELECTRICS	SM202	DOOR SWITCH ROLLER LEVER 250VAC 10A	
E1, E2	2	SAL	SL9706/540TC	LED CABINET LIGHT 9W TRI-COLOUR 240VAC 540mm LONG c/w SWITCH	
E3	1	SAL	SL9706/280TC	LED CABINET LIGHT 4W TRI-COLOUR 240VAC 280mm LONG c/w SWITCH	
Q6	1	SCHNEIDER	A9F54110	CIRCUIT BREAKER IC60H 10kA 1P 10A C CURVE	Q6
	1	SCHNEIDER	A9XPH312	BUSBAR COMB STANDARD 100A GREY 3P 18mm 12 POLE	
	1	SCHNEIDER	A9XPE310	END CAP 3P x10	
Z1	1	CRITEC	TSF20A240V	SURGE REDUCTION FILTER TSF 240V 20A 20kA	Z1
SRFN	1	DORE ELECTRICS	100A9C	ACTIVE & NEUTRAL BAR ENCLOSED 9 HOLE 100A	SRFN
Q10, Q11, Q12, Q13	4	SCHNEIDER	A9F54106	CIRCUIT BREAKER IC60H 10kA 1P 6A C CURVE	Q10, Q11, Q12, Q13
	1	SCHNEIDER	A9XPH112	BUSBAR COMB STANDARD 100A GREY 1P 18mm 12 POLE	
	1	SCHNEIDER	A9XPE110	END CAP 1P x10	
COMMON CONTROL & TELEMETRY					
CC-Q1,2,3	3	SCHNEIDER	A9F54102	CIRCUIT BREAKER IC60H 10kA 1P 2A C CURVE	CC-Q1,2,3
CC-E1A,B,C	3	COSMOTEC	KTS01141	THERMOSTAT 1NO 10A 240VAC (COOLING)	CC-E1A,B,C
CC-E2A	1	COSMOTEC	GSV1000220	FILTER FAN GSV1000 119mm 240VAC 35m3 AIR VOLUME	
	8	COSMOTEC	GSF10	FILTER VENT GSF 119mm	
CC-E2B,C	2	COSMOTEC	GSV2000220	FILTER FAN GSV2000 204mm 240VAC 108m3 AIR VOLUME	
	2	COSMOTEC	GSF20	FILTER VENT GSF 204mm	
PS-13	1	MEANWELL	DRC-100B	POWER SUPPLY/DC UPS MINILINE 96.6W 90-264VAC/24VDC 2.25A	PS-13
BATTERY	2	REMCO	RM12-9HR	12V 9Ah SEALED VALVE REGULATED LEAD ACID BATTERY	
CC-Q15	1	SCHNEIDER	A9F54106	CIRCUIT BREAKER IC60H 10kA 1P 6A C CURVE	CC-Q15
CC-Q17	1	SCHNEIDER	A9F54104	CIRCUIT BREAKER IC60H 10kA 1P 4A C CURVE	CC-Q17
CC-Q18,19,20	3	SCHNEIDER	A9F54102	CIRCUIT BREAKER IC60H 10kA 1P 2A C CURVE	CC-Q18,19,20
	1	SCHNEIDER	A9XPH112	BUSBAR COMB STANDARD 100A GREY 1P 18mm 12 POLE	
	1	SCHNEIDER	A9XPE110	END CAP 1P x10	
RADIO CC-U1	1	SCHNEIDER	TBURQR4HH-E00E1L00	QR4 SER-ETH 450-520MHz ETSI AES CSA DATA RADIO	CC-U1
CC-F21	1	RFI/POLYPHASER	IS-B50LN-C2	SURGE PROTECTOR COAXIAL B50 125-1000MHz N FEMALE CONNECTOR	
RADIO COAX TAIL	1	RFI	92-07R-1.2	RG58 COAX TAIL N PLUG TO TNC 1.2m	
ANTENNA	1	RFI	YB6-61	ANTENNA YAGI 6 ELEMENT ALUMINIUM 450-480MHz	
	1	RFI	UNV	ANTENNA CLAMP UNIVERSAL RIGHT ANGLE HOT DIP GALV. BOLTS	
ANTENNA CABLE (m)	10	RFI	CNT-400	COAX CABLE 10mm 50OHM BRAIDED CNT	
ANTENNA CONNECTOR	2	RFI	N-201	PLUG N TYPE CNT400 COAXIAL	
RTU	1	SCHNEIDER	TBUP334-EA55-AB10	REMOTE TELEMETRY UNIT SCADAPACK SP334E 2x AO	RTU
HMI	1	SCHNEIDER	HMISTU855	HMI MAGELIS STU TOUCH SCREEN 5.7"	
RADIO DATA CABLE	1	CABAC	PL5EBL0.5	PATCH LEAD CAT5E BLUE 0.5M	
HMI DATA CABLE	1	CABAC	PL5EBL3	PATCH LEAD CAT5E BLUE 3M	
PUMP DATA CABLE	2	CABAC	PL5EBL5	PATCH LEAD CAT5E BLUE 5M	
CC-K21T	1	SCHNEIDER	RE22R2MMU	TIMING RELAY RE22 MULTIFUNCTION 2 C/O 8A 24VDC/24-240VAC COIL	CC-K21T
CC-K17	5	SCHNEIDER	RXZE25114M	RELAY BASE RXZ RXM4	CC-K17
CC-K45,46,78,80	5	SCHNEIDER	RXM4AB2BD	RELAY RXM4 LED INDICATION 4C/O 6A 24VDC	CC-K45,46,78,80
CC-K39	1	MULTITRODE	MTRA-5 (84-800106)	DISCHARGE LEVEL SENSING RELAY 2NO 24VDC SUPPLY	CC-K39
F61	1	PHOENIX CONTACT	3004100	TERMINAL FUSED (SUIT 5x20 CARTRIDGE) SCREW UK 5-HESI (5X20) 6.3A 4mm	
	2	RS COMPONENTS	541-4274	FUSE GLASS QUICK ACTING 100mA 5x20mm (DOUBLE LOAD FUSE HOLDER)	
TELEMETRY TERMINALS	41	PHOENIX CONTACT	3004362	TERMINAL FEED THROUGH SCREW UK 5 N 41A 4mm	
	4	PHOENIX CONTACT	3003020	TERMINAL END PLATE D-UK 4/10 (UK 3 N - UK 10 N)	
	2	PHOENIX CONTACT	3022218	TERMINAL END CLAMP CLIPFIX 35 9.5mm WIDE	
LEVEL SENSING EQUIPMENT					
LSH 102	1	KELCO	K20M	FLOAT SWITCH HEAVY DUTY 1 C/O 20m CABLE	
LE 103	1	MULTITRODE	1.0/10-10M FS (837773)	LEVEL PROBE 1m PROBE LENGTH 10 SENSOR POINTS 10m CABLE LENGTH	
LIT 101	1	VEGA	WLS2.XXA4AMD1DD1X	VEGAWELL 52 SUBMERSIBLE PRESSURE TRANSMITTER CERAMIC MEASURING CELL	
PUMP 1 & 2					

 J. & P. RICHARDSON INDUSTRIES PTY LTD A.B.N. 23 001 952 325 114 CAMPBELL AVE WACOL QLD 4076 PH. (07) 3271 2911 FAX. (07) 3271 3623 EMAIL: jpr@jpr.com.au	Design Project Officer B. JONES	Design Checked – Statutory Certifier Signed:				
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	GCCC Project Records File Number					
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JPR Project No.: P.0440075.D.01	GCCC Contract Records File Number	Issue	0 FOR APPROVAL	Description	P. HOUSTON Name	P.H. Initials
				Design not to be amended without authorisation by Statutory Certifier		

EQUIPMENT SCHEDULE					
ITEM No.	QTY	MAKE	CAT. No.	DESCRIPTION	LABEL
P1,2-Q1 (7.5 & 11kW)	2	SCHNEIDER	GV4LE25N	CIRCUIT BREAKER GV4LE MA25 25A 70KA 3P (7.5, 11kW)	PUMP 1, PUMP 2
	2	SCHNEIDER	GV4AE11	AUXILIARY CONTACT OF or 5d GV4 & BV4	
	2	SCHNEIDER	GV4APN01	ROTARY HANDLE EXTENDED GV4LE IP54	
P1,2-Q5	2	SCHNEIDER	A9F54104	CIRCUIT BREAKER IC60H 10kA 1P 4A C CURVE	P1,2-Q5
P1,2-Q6	2	SCHNEIDER	A9F54204	CIRCUIT BREAKER IC60H 10kA 2P 4A C CURVE	P1,2-Q6
P1,2-Q8	2	SCHNEIDER	A9F54102	CIRCUIT BREAKER IC60H 10kA 1P 2A C CURVE	P1,2-Q8
P1,2-U3 (7.5kW)	2	SCHNEIDER	ATS48D17Q	SOFT STARTER ALTISTART 48 400V 7.5kW 17A NORMAL DUTY EXTERNAL BYPASS (7.5kW)	P1,2-U3
P1,2-K15,K16 (7.5 & 11kW)	4	SCHNEIDER	LC1D40AU7	CONTACTOR LC1D 3P 22kW 40/60A 240VAC COIL (7.5, 11kW)	P1,2-K15,K16
P1,2-K18	2	SCHNEIDER	RXZE25114M	RELAY BASE RXZ RXM4	P1,2-K18
	2	SCHNEIDER	RXM4AB2BD	RELAY RXM4 LED INDICATION 4C/O 6A 24VDC	
P1,2-S9	2	KRAUS & NAIMER	CA10 A213-FT2 ENGRAVED "RUN-OFF-AUTO"	SELECTOR SWITCH CA10 3 POS 4P DOUBLE-THROW CENTRE OFF 60deg	PUMP 1, PUMP 2
P1,2-F1	2	FLYGT	835857	MINICAS II SUPERVISION RELAY 24VAC/DC 2x RELAY OUTPUT	P1,2-F1
	2	CARLO GAVAZZI	ZPD11	SCREW TERMINAL BASE 11 ROUND PIN	
TERMINATIONS					
PUMP 1,2 TERMINALS	2	WEIDMULLER	0292460000	TERMINAL GROUP MARKER Scht 5 44.5 x 19.5mm	PUMP 1, PUMP 2
	12	PHOENIX CONTACT	3006043	TERMINAL FEED THROUGH SCREW UK 16 N 101A 16mm	
	6	PHOENIX CONTACT	3006027	TERMINAL END PLATE D-UK 4/10 (UK 16 N)	
	0.2	PHOENIX CONTACT	0203454	TERMINAL SCREW-IN 10 POLE FBRI 10-12 (UK 16 N) Pk 10	
	4	PHOENIX CONTACT	0443023	TERMINAL GROUND FEED THROUGH SCREW USLKG 16 N 101A 16mm	
	20	PHOENIX CONTACT	3004362	TERMINAL FEED THROUGH SCREW UK 5 N 41A 4mm	
	2	PHOENIX CONTACT	3003020	TERMINAL END PLATE D-UK 4/10 (UK 3 N - UK 10 N)	
	0.2	PHOENIX CONTACT	0203250	TERMINAL SCREW-IN 10 POLE FBRI 10-6 (UK 5 N) Pk 10	
	2	PHOENIX CONTACT	0441504	TERMINAL GROUND FEED THROUGH SCREW USLKG 5 41A 4mm	
	8	PHOENIX CONTACT	3022218	TERMINAL END CLAMP CLIPFIX 35 9.5mm WIDE	
AREA LIGHTING TERMINALS	1	WEIDMULLER	0292460000	TERMINAL GROUP MARKER Scht 5 44.5 x 19.5mm	AREA LIGHTING
	2	PHOENIX CONTACT	3004362	TERMINAL FEED THROUGH SCREW UK 5 N 41A 4mm	
	1	PHOENIX CONTACT	3003020	TERMINAL END PLATE D-UK 4/10 (UK 3 N - UK 10 N)	
	1	PHOENIX CONTACT	0441504	TERMINAL GROUND FEED THROUGH SCREW USLKG 5 41A 4mm	
	2	PHOENIX CONTACT	3022218	TERMINAL END CLAMP CLIPFIX 35 9.5mm WIDE	
LEVEL TERMINALS	1	WEIDMULLER	0292460000	TERMINAL GROUP MARKER Scht 5 44.5 x 19.5mm	LEVEL INSTRUMENTS
	15	PHOENIX CONTACT	3004362	TERMINAL FEED THROUGH SCREW UK 5 N 41A 4mm	
	4	PHOENIX CONTACT	3003020	TERMINAL END PLATE D-UK 4/10 (UK 3 N - UK 10 N)	
	0.2	PHOENIX CONTACT	3048085	TEST SOCKET FULLY INSULATED 4mm PSBJ 3/52/6 GY (UK 5 N) Pk 10	
	4	PHOENIX CONTACT	3022218	TERMINAL END CLAMP CLIPFIX 35 9.5mm WIDE	
MISC. TERMINALS	20	PHOENIX CONTACT	3004362	TERMINAL FEED THROUGH SCREW UK 5 N 41A 4mm	
	5	PHOENIX CONTACT	3003020	TERMINAL END PLATE D-UK 4/10 (UK 3 N - UK 10 N)	
	0.1	PHOENIX CONTACT	0203250	TERMINAL SCREW-IN 10 POLE FBRI 10-6 (UK 5 N) Pk 10	
	4	PHOENIX CONTACT	3022218	TERMINAL END CLAMP CLIPFIX 35 9.5mm WIDE	
EARTH	1	DORE ELECTRICS	165E36	EARTH & NEUTRAL BAR 36 HOLE 165A	MAIN EARTH
NEUTRAL	1	DORE ELECTRICS	165E36	EARTH & NEUTRAL BAR 36 HOLE 165A	MAIN NEUTRAL
	2	DORE ELECTRICS	E/NFEET	MOUNTING FEET EARTH & NEUTRAL BAR	
	2	SCHNEIDER	NSYCA612LPH2	PRESSURE VAVLE M12 IP68 120L/H	

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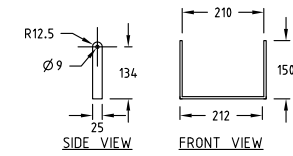
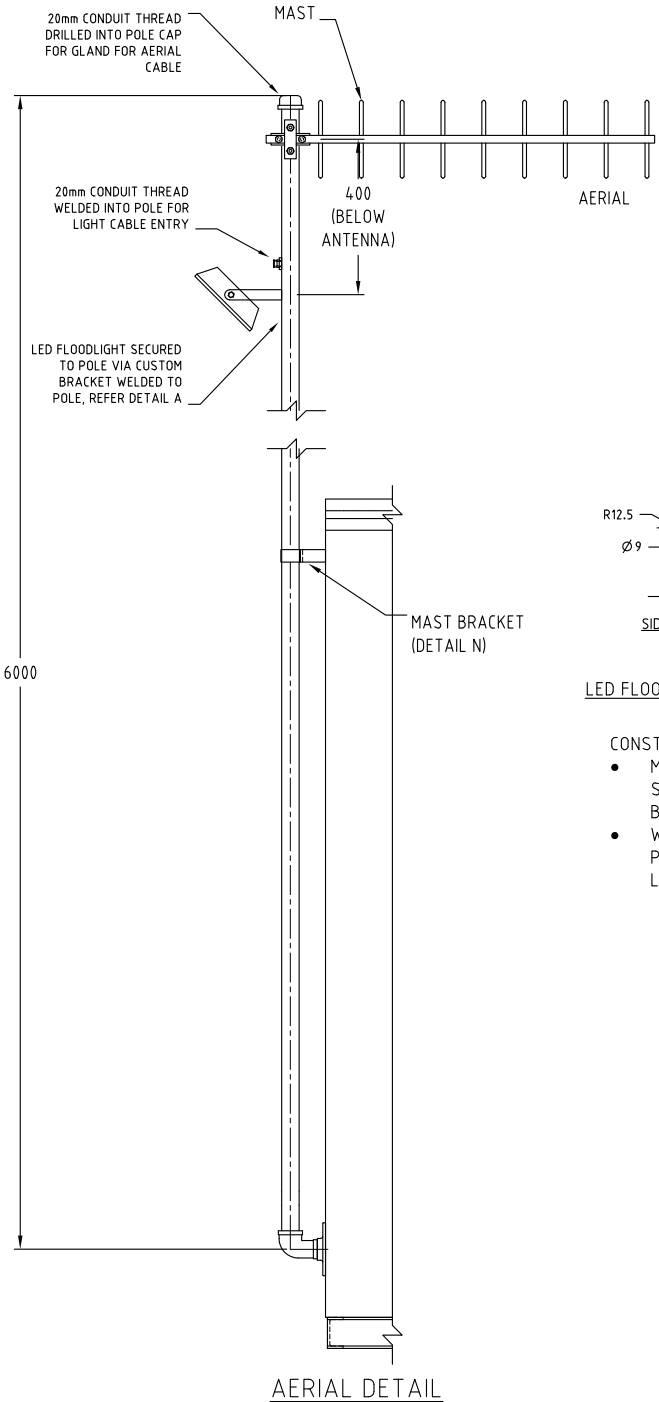
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 J. & P. RICHARDSON INDUSTRIES PTY LTD ELECTRICAL CONTRACTORS AND ENGINEERS A.B.N. 23 001 952 325 114 CAMPBELL AVE. WACOL QLD 4076 PH. (07) 3271 2911 FAX. (07) 3271 3623 EMAIL. jpr@jpr.com.au	Design Project Officer B. JONES	Design Checked – Statutory Certifier								Bar Scales	CITY OF GOLDCOAST™	SEWAGE PUMP STATION DA15 60 STAPYLTON JACOBS WELL ROAD STAPYLTON MAIN SWITCHBOARD EQUIPMENT SCHEDULE	Project Number	
	Designed/Drawn B.J. / P.H.	Signed: Drawing Checked											Sheet of	Issue
	GCCC Project Records File Number												13 OF 14	0
	GCCC Project Identifier \- CAD File Name P0440075.016_0													
	GCCC Contract Records File Number													
JPR Project No.: P.044075.D.01										Do not scale, use figured dimensions only	PO Box 5042, Gold Coast MC 9729	GCDC Drawing Number P0440075.016		
Design not to be amended without authorisation by Statutory Certifier														

I, JOEL ANDERSON being a Registered Professional Engineer registered under the provision of the Professional Engineers act 2002 (as amended) hereby certify that the as-constructed information shown on this drawing is a true and correct record of the Works performed.

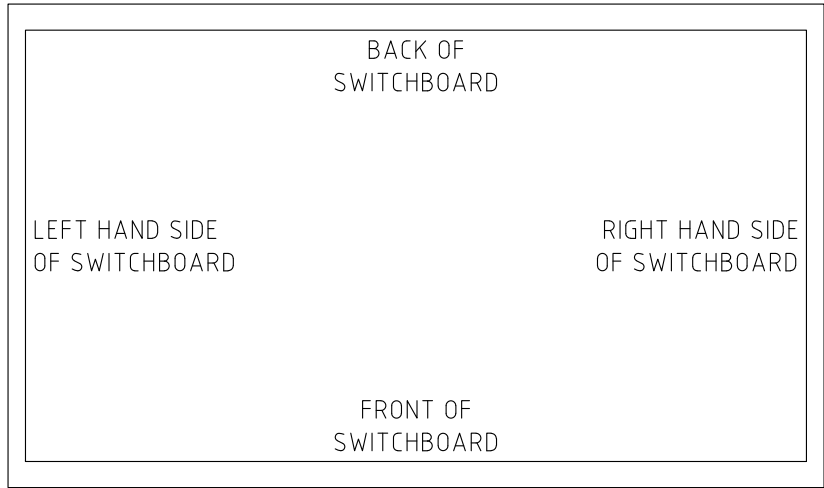
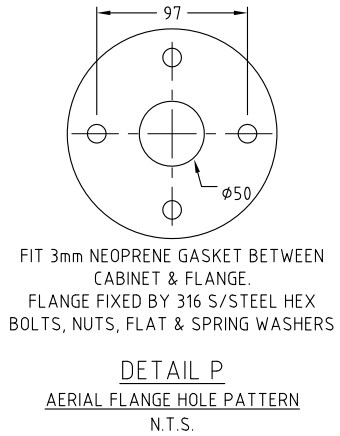
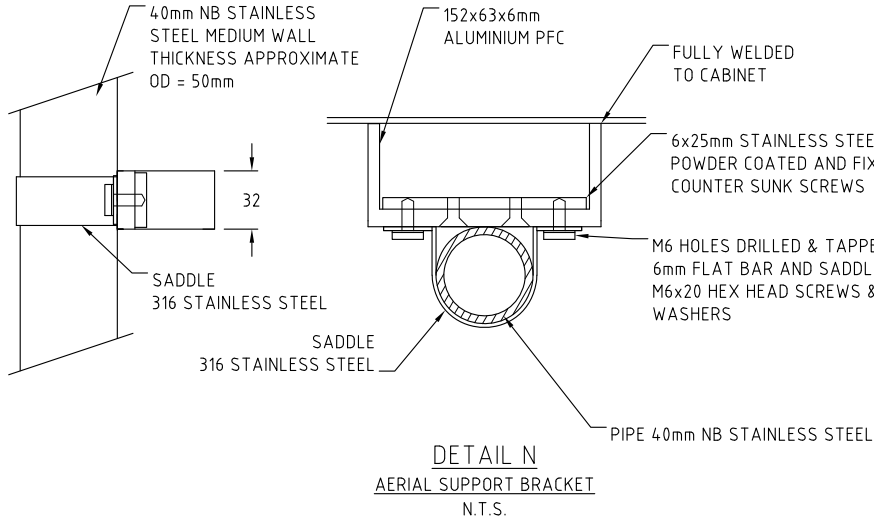
RPEQ No. 17916
Signed: _____ Date: 21-10-21

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DETAIL A
LED FLOOD LIGHT MOUNTING BRACKET
N.T.S.

- CONSTRUCTION DETAILS:
- MATERIAL: 25x6mm STAINLESS STEEL FLAT BAR
 - WELDED TO TELEMETRY POLE FOR MOUNTING OF LED FLOODLIGHT



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2021/610
Dated: 10 March 2022

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

SITE SPECIFIC TELEMETRY
POLE LOCATION

NOTES:

- FLANGE HOLES AND MOUNTING POINTS PROVIDED ON ALL SIDES OF SWITCHBOARD WITHOUT DOORS (TWO OR THREE SIDES DEPENDING IF SINGLE OR DOUBLE SIDED SWITCHBOARD).
- BLANKING FLANGE COVERS FITTED TO ALL UNUSED TELEMETRY POLE FLANGE CUT OUTS.

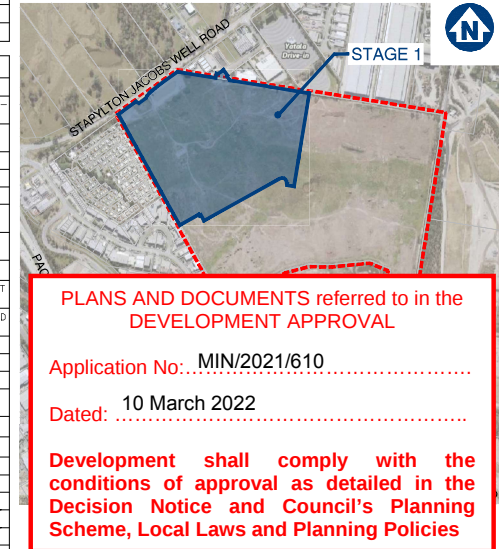
CIVIL OPERATIONAL WORKS VANTAGE YATALA - STAGE 1

DRAWING INDEX		
DRAWING No.	REV No.	DRAWING TITLE
5941 ENG OPWI 001	M	DRAWING INDEX AND LOCALITY PLAN
5941 ENG OPWI 002	B	GENERAL NOTES SHEET 1 OF 3
5941 ENG OPWI 003	B	GENERAL NOTES SHEET 2 OF 3
5941 ENG OPWI 004	B	GENERAL NOTES SHEET 3 OF 3
5941 ENG OPWI 005	C	LEGEND
5941 ENG OPWI 006	D	KEY PLAN LAYOUT
5941 ENG OPWI 010	B	EXISTING SURFACE AND FEATURE PLAN
5941 ENG OPWI 020	B	EMERI STREET DEMOLITION AND PROTECTION LAYOUT PLAN
5941 ENG OPWI 050	D	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 6
5941 ENG OPWI 051	B	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 6
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5941 ENG OPWI 053	D	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6
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5941 ENG OPWI 055	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 6
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5941 ENG OPWI 057	B	CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS
5941 ENG OPWI 058	B	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT
5941 ENG OPWI 059	B	CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS
5941 ENG OPWI 060	B	SEDIMENT AND EROSION TYPICAL DETAILS
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5941 ENG OPWI 301	D	OVERALL SERVICES LAYOUT PLAN SHEET 2 OF 4
5941 ENG OPWI 302	C	OVERALL SERVICES LAYOUT PLAN SHEET 3 OF 4
5941 ENG OPWI 303	C	OVERALL SERVICES LAYOUT PLAN SHEET 4 OF 4
5941 ENG OPWI 400	D	ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 4
5941 ENG OPWI 401	D	ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 4
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5941 ENG OPWI 403	C	ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 4 OF 4
5941 ENG OPWI 410	C	TYPICAL SECTIONS AND DETAILS SHEET 1 OF 3
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5941 ENG OPWI 491	C	ROAD INTERSECTION DETAILS SHEET 2 OF 8
5941 ENG OPWI 492	C	ROAD INTERSECTION DETAILS SHEET 3 OF 8
5941 ENG OPWI 493	C	ROAD INTERSECTION DETAILS SHEET 4 OF 8
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5941 ENG OPWI 512	E	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 18
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5941 ENG OPWI 641	C	GENERAL ARRANGEMENT FOR SPS DAIS LAYOUT PLAN SHEET 2 OF 2
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5941 ENG OPWI 643	C	DETAILED GENERAL ARRANGEMENT FOR SPS DAIS LAYOUT SHEET 2 OF 2
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5941 ENG OPWI 650	B	SEWER PUMP STATION DAIS SYSTEM LONGITUDINAL SECTION SHEET 1 OF 3
5941 ENG OPWI 651	B	SEWER PUMP STATION DAIS SYSTEM LONGITUDINAL SECTION SHEET 2 OF 3
5941 ENG OPWI 652	B	SEWER PUMP STATION DAIS SYSTEM LONGITUDINAL SECTION SHEET 3 OF 3
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5941 ENG OPWI 802	F	LINEMARKING AND SIGNAGE PLAN SHEET 3 OF 5
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5941 ENG OPWI 904	A	A–DOUBLE SWEEP PATH ANALYSIS SHEET 4 OF 7
5941 ENG OPWI 905	A	A–DOUBLE SWEEP PATH ANALYSIS SHEET 5 OF 7
5941 ENG OPWI 906	A	A–DOUBLE SWEEP PATH ANALYSIS SHEET 6 OF 7
5941 ENG OPWI 907	A	A–DOUBLE SWEEP PATH ANALYSIS SHEET 7 OF 7

STANDARD DRAWINGS			
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DS-010	F	IPWEA	ACCESS CHAMBER – STORMWATER ACCESS CHAMBER DETAILS – 1050 TO 2100 DIA
DS-015	C	IPWEA	ACCESS CHAMBER – MANHOLE FRAME – ROADWAY AND NON ROADWAY – 1050 TO 2100 DIA
DS-018	C	IPWEA	ACCESS CHAMBER – MANHOLE RISER DETAILS
DS-019	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (ROADWAY)
DS-020	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (NON ROADWAY)
DS-021	C	IPWEA	ACCESS CHAMBER – MANHOLE COVER CONCRETE INFILL (PEDESTRIAN TRAFFIC) 1050 TO 2100 DIA
DS-030	F	IPWEA	EXCAVATION, BEDDING & BACKFILL – RIGID & FLEXIBLE DRAINAGE PIPES
DS-031	D	IPWEA	EXCAVATION, BEDDING & BACKFILL PRECAST – BOX CULVERTS
DS-040	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – SEDIMENT FENCE, ENTRY/EXIT SEDIMENT TRAP
DS-041	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – KERB AND FIELD INLET, CHECK DAMS & STRAW BALES
DS-050	E	IPWEA	DRAINAGE PITS – FIELD INLET TYPE I AND TYPE 2
DS-061	B	IPWEA	DRAINAGE PITS – KERB INLET – PRECAST LINTEL DETAILS
DS-062	D	IPWEA	DRAINAGE PITS – KERB INLET – GRATE AND FRAME
DS-063	C	IPWEA	DRAINAGE PITS – KERB INLET – LIP IN LINE – GENERAL ARRANGEMENT
DS-065	I	IPWEA	PATHWAYS – CONCRETE PATHWAY CONSTRUCTION DETAILS
DS-073	A	IPWEA	BIOTRETENTION DRAINAGE PROFILE – TYPE 3 – CONVENTIONAL
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DS-076	A	IPWEA	BIOTRETENTION WEIR
DS-078	A	IPWEA	BIOTRETENTION STANDARD NOTES
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RS-049	E	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 1 OF 2
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RS-094	F	IPWEA	KERB RAMPS – LOCATIONS AND CONFIGURATIONS
RS-130	F	IPWEA	ROAD FURNITURE – STREET NAME SIGN AND LOCATION (FINGERBOARD)
RS-131	G	IPWEA	ROAD FURNITURE – TRAFFIC SIGN INSTALLATION DETAILS
RS-140	F	IPWEA	SUBSOIL DRAINS – DETAILS AND LOCATION
RS-142	F	IPWEA	SUBSOIL DRAINS – ACCESS POINTS
SD1033	K	DTMR	KERB AND CHANNEL
SD1304	N	DTMR	PIPE CULVERTS – WINGWALLS, HEADWALLS AND APRON FOR PIPE DIA 750 TO 2400
02-003	Z	CoGc	TYPICAL CROSS SECTIONS – COLLECTOR STREETS – PLAN 2 OF 2
02-005	I	CoGc	PUBLIC UTILITY PLANT CORRIDOR ALLOCATIONS IN PUBLIC ROAD VERGES
02-601	I	CoGc	NEW ROADS – SERVICE CONDUIT CROSSINGS
02-602	I	CoGc	ROAD CROSSING – TRENCH RESTORATION – FLEXIBLE PAVEMENTS
03-008	I	CoGc	FIELD INLET AND INTER-ALLOTMENT DRAINAGE PIT
03-101	I	CoGc	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA
03-102	I	CoGc	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA ROOF SLABS
03-201	I	CoGc	EXCAVATION AND BEDDING OF CONCRETE STORMWATER PIPES
05-014	I	CoGc	CHAIN WIRE FENCING – 1.8m HIGH
SEQ-SPS-1602-1	C	SEQ	RISING MAIN SLOUP/ DRAIN ARRANGEMENT
SEQ-SPS-1606-1	B	SEQ	AUTOMATIC GAS RELEASE VALVE



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2021/610

Dated: 10 March 2022

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

CLIENT



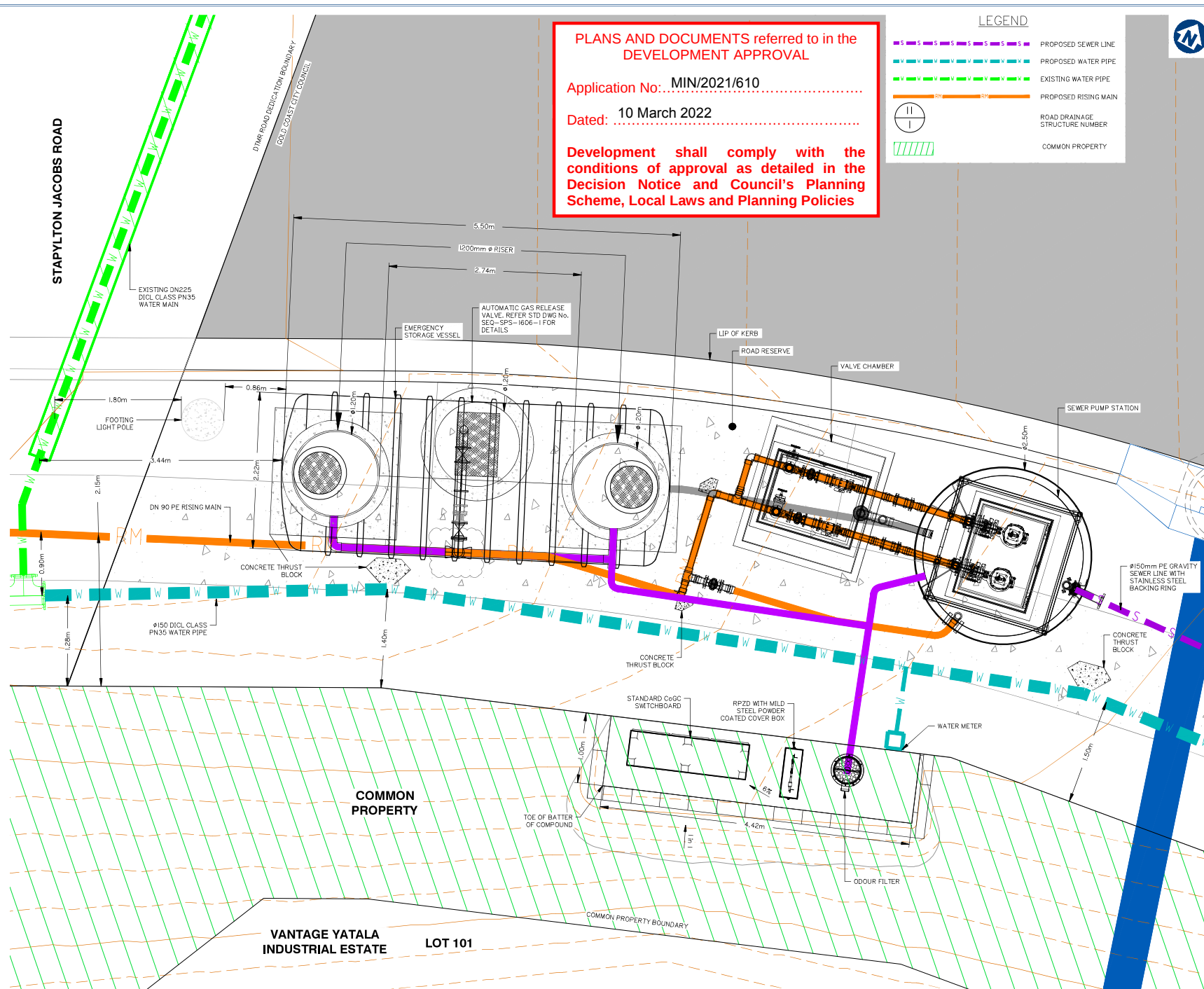
FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

SITE ADDRESS

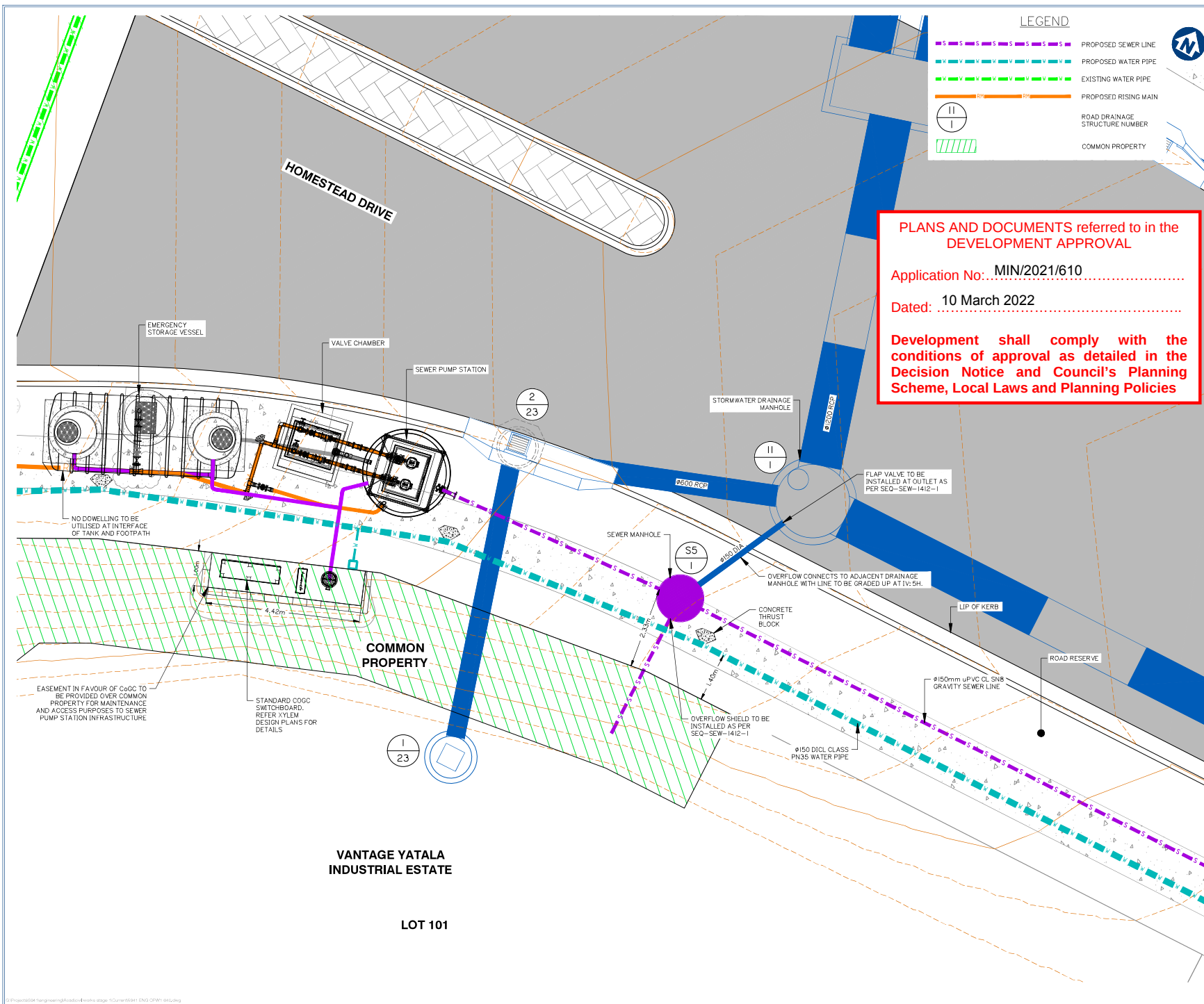
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207

DWG No. 5941 ENG OPWI 001 – REV M

FEBRUARY 2022



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL





gassman
development
perspectives

planning | environment | landscape | engineering | survey

T: 3807 3333 | F: 3287 5461 | www.gassman.com.au

Galle Coast & Logan | 16 Business Street, Yatala QLD | PO Box 366, Beerburrumbidgee 4207

Client:

**FRASERS
PROPERTY**

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501

Plan: SP235994

Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum: AHD

Meridian: -

Contour Interval: -

PSM: -

RL: -

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

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DRAWING TITLE

GENERAL ARRANGEMENT
LAYOUT PLAN FOR SPS DA15
SHEET 2 OF 2

Rev	Date	Description	By	Check	Appr
1	15-02-2022	ISSUED FOR APPROVAL	LAB	MG	MG

SCALE IN METRES

0 1 2 3 4 5

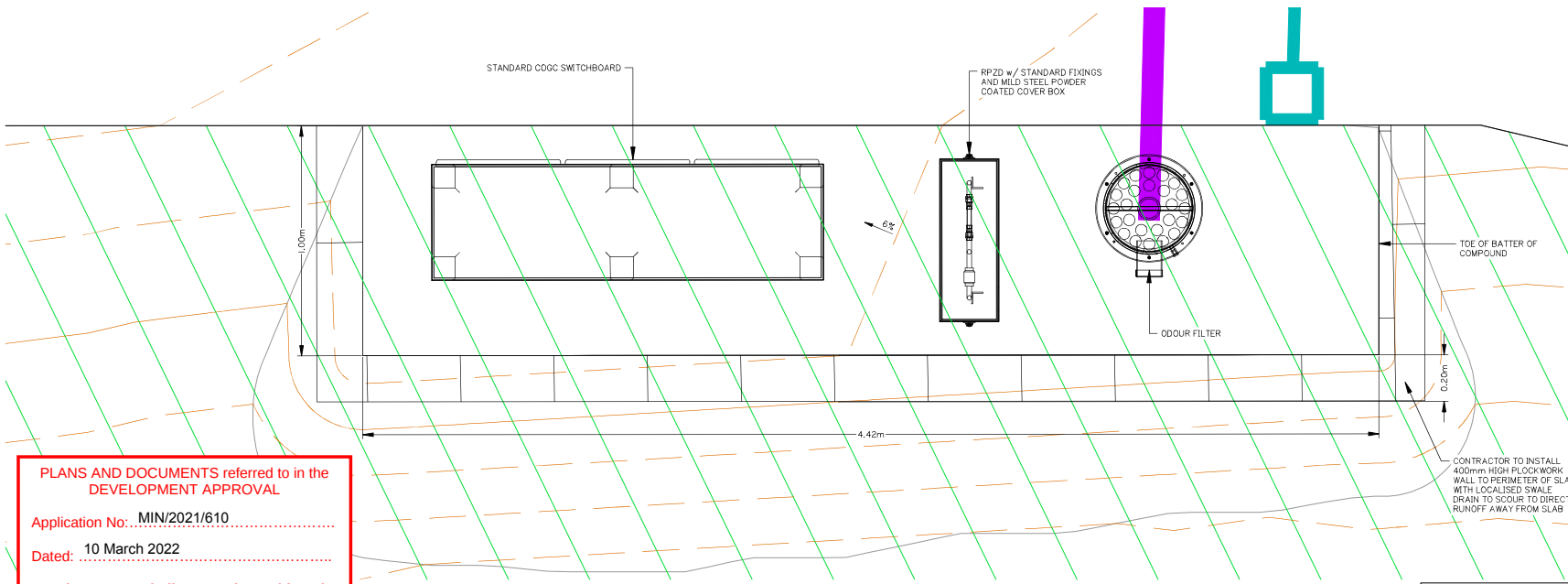
1:50 (FULL SIZE A1)
1:100 (HALF SIZE A3)

Scale at A1: 1:50

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	21-12-2021

Drawing No: 5941 ENG OPW1 641

Rev. No: C

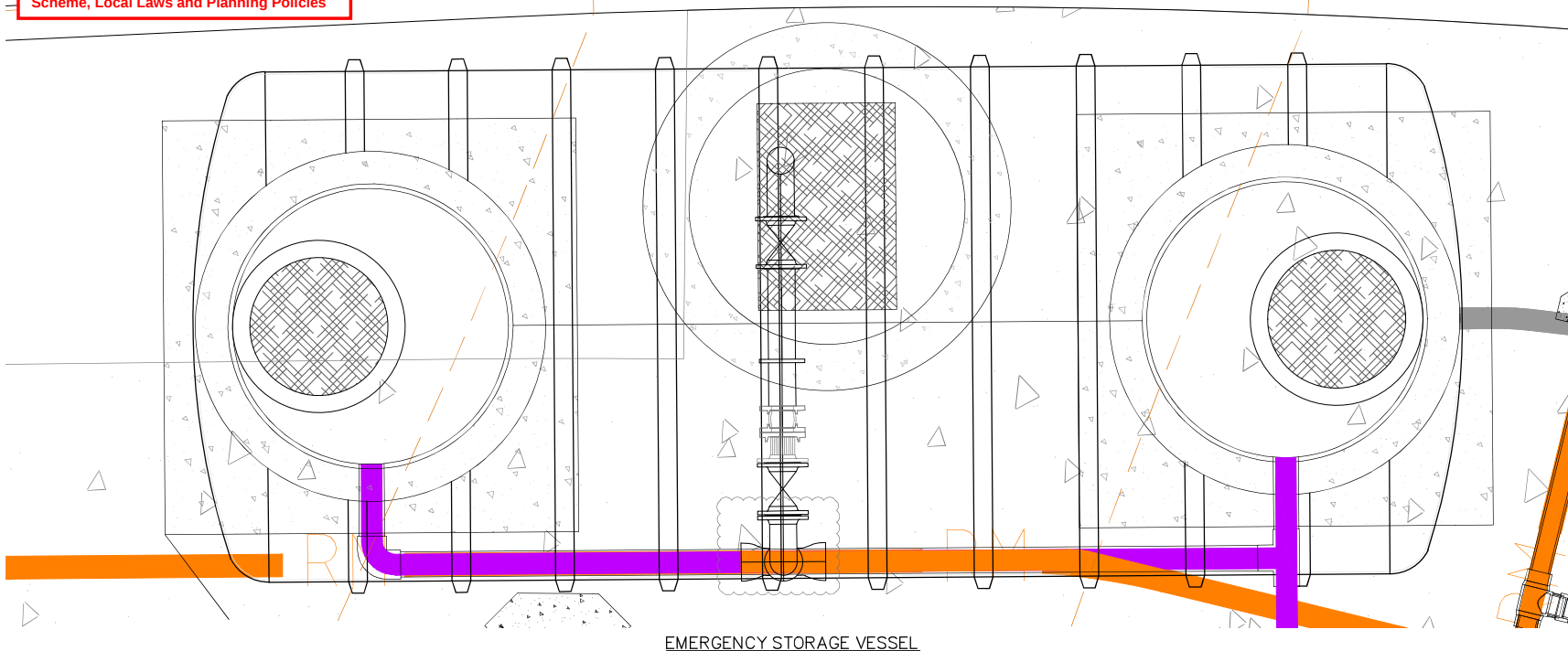


PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2021/610

Dated: 10 March 2022

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
DETAILED GENERAL
ARRANGEMENT LAYOUT FOR
SPS DA15 SHEET 1 OF 2
2 of 2

15-02-2022	REVISIONS	DATE	BY	REASON
15-02-2022	1	LAB	LAB	ISSUED FOR APPROVAL
15-02-2022	2	MG	MG	ISSUED FOR APPROVAL

SCALE IN METRES



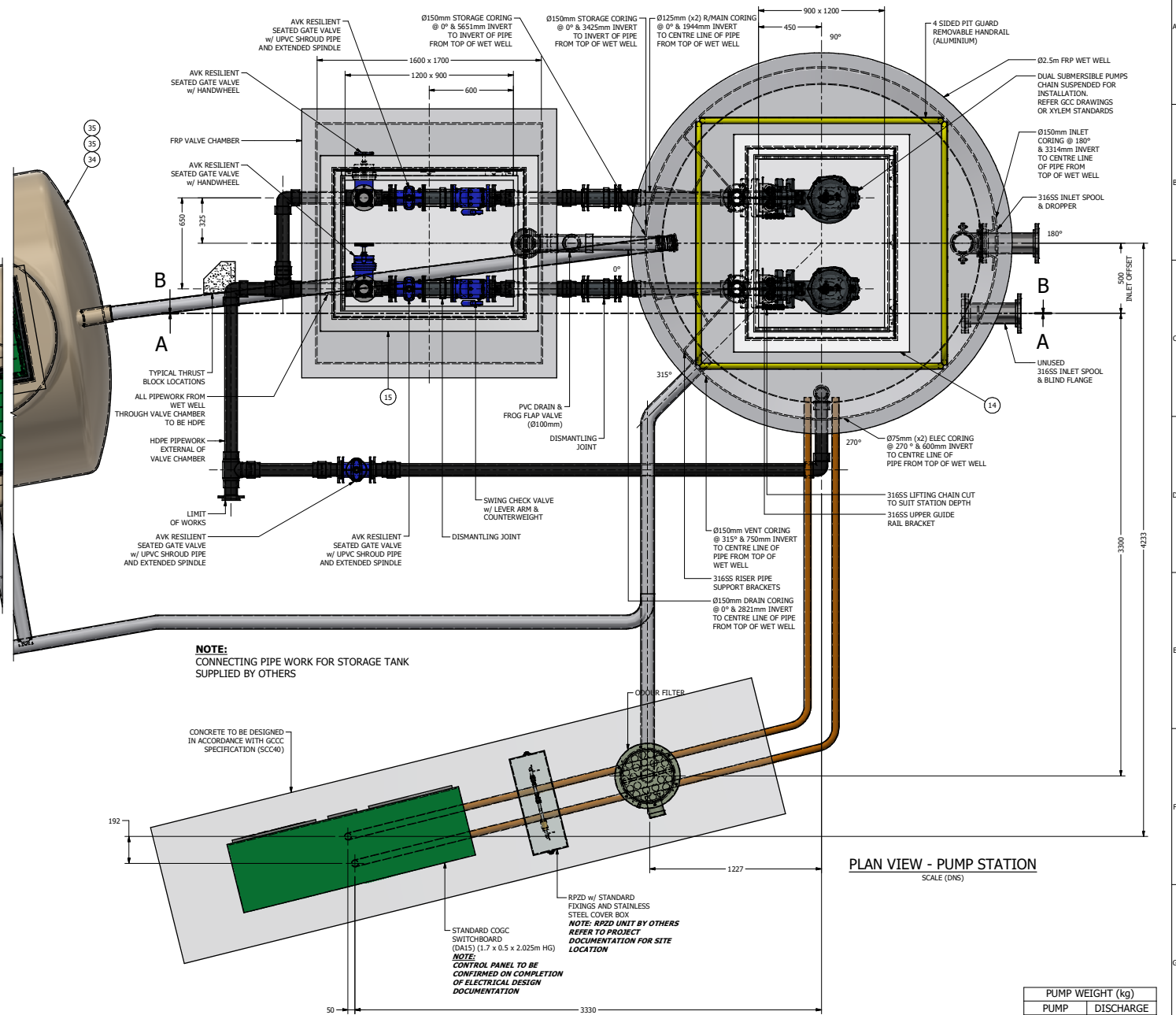
1:10 (FULL SIZE A1)
1:20 (HALF SIZE A3)

Scale at A1: 1:10

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	<i>[Signature]</i>
Date:	21-12-2021

Drawing No: 5941 ENG OPW1 643
Rev. No: C

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



PLAN VIEW - PUMP STATION

PUMP WEIGHT (kg)	
PUMP	DISCHARGE
147kg	35kg

	47	11-PUN	1509B BLIND FLANGE, 150#		316SS	1
	46	11-PUN	FLYGT M3127.161, SH247, 7.4kW SUB. PUMP, SUPPLIED LOOSE TO GCWW		D/IRON	1
	45	11-PUN	GATE VALVE RESILIENT PIPE		PVC-U	1
E	44	11-PUN	D880 AWR SHROUD SEATED GV, TABLE D, 57/98 SERIES C/W EXT SPDL		D/IRON	3
	43	11-PUN	DN100 FLAP VALVE		PVC	1
	42	11-PUN	UPPER OVERFLOW PIPE		PVC	1
	41	11-PUN	LOWER OVERFLOW PIPE		PVC	1
	40	11-PUN	38mm ELEC CONDUIT 1		PVC	1
	39	11-PUN	38mm ELEC CONDUIT 1		PVC	1
	38	11-PUN	SWITCHBOARD CONC FOUNDATION		CONC	1
	37	11-PUN	CONCRETE FOUNDATION, FOR W/PTS		CONC	1
	36	11-PUN	STORAGE TANK OVERFLOW PIPE		PVC	1
	35	11-PUN	CLASS D GATIC ACCESS LID (TRAFFICABLE), 0.6m x 0.6m		D/IRON	2
	34	11-PUN	STORAGE TANK		HDPE	1
	33	11-PUN	VALVE CHAMBER ACCESS LID W/OUT SAFETY GRATES		PVC	0
	32	11-PUN	0.6m x 0.75m 2.3m DEEP VALVE CHAMBER, FRP		GRP	0
	31	11-PUN	COLOUR FILTER ASSEMBLY - GM 375		FRP	1
	30	11-PUN	CONCRETE FOUNDATION		CONC	1
F	29	11-PUN	DRAIN LINE ASSEMBLY		PVC	1
	28	11-PUN	CAMLOCK FITTING FOR BYPASS PUMP CONNECTION		316SS	2
	27	11-PUN	DN100 THRUST TIE DISMANTLING JOINT		D/IRON	4
	26	11-PUN	RP20 ASSY		316SS	1
	25	11-PUN	RP20 COVER BOX ASSEMBLY		316SS	1
	24	11-PUN	DROPPER TIE SUPPORT BRACKET		316SS	1
	23	11-PUN	Ø150mm COVER FOR KGV SPINDLE ACCESS		C/IRON	0
	22	11-PUN	VALVE SUPPORT BRACKET		316SS	0
	21	11-PUN	KGV EXTENDED SPINDLE UP TO 6m		316SS	0
	20	11-PUN	CAP FOR KGV SPINDLE - v2031602817		316SS	0
	19	11-PUN	DN150 INLET TEE w/ DROPPER PIPE		316SS	1
	18	11-PUN	4 SIDED FIT GUARD, REMOVABLE HANDRAIL		ALUM	1
	17	11-PUN	DN150 UNIDIRECTIONAL KGV		316SS	1
	16	11-PUN	VALVE SUPPORT BRACKET ASSY		ALUM	4
G	15	11-PUN	VALVE CHAMBER ACCESS LID w/ FALL ARREST SAFETY GRATE		ALUM	1
	14	11-PUN	WET WELL ACCESS LID w/ SAFETY GRATES		ALUM	1
	13	11-PUN	1000mm (TBA)		MILD STEEL	1
	12	11-PUN	113mm PVC PIPE, VENT PIPE		PVC	1
	11	11-PUN	RISING MAIN SUPPORT BRACKET		316SS	2
	10	11-PUN	DN50 HDPE RISING MAIN w/ TABLE D FLANGES & 316SS BACKING RINGS		HDPE	1
	9	11-PUN	D880 SINKING CHARGE VALVE w/ LEVER & C/W EIGHT & TABLE D DRILLING		D/IRON	2
	8	11-PUN	D880 AWR RESILIENT SEATED GV, TABLE D, 57/98 SERIES C/W H/W		D/IRON	2
	7	11-PUN	LIFTING CHAIN w/ SHACKLE KIT TO SUIT STATION DEPTH		316SS	2
	6	11-PUN	GUIDE RAIL RAIL BRACKET		316SS	2
	5	11-PUN	UPPER RAIL SCH40 6.1m LENGTH CUT TO SUIT, LOWER		316SS	4
	4	11-PUN	FLYGT M3127.161, SH247, 7.4kW SUBMERSIBLE PUMPS		D/IRON	2
	3	11-PUN	FLYGT 88080 DISCHARGE PEDASTAL w/ TABLE D DRILLING		C/IRON	2
	2	11-PUN	1.7m x 1.6m x 2.2m DEEP VALVE CHAMBER, FRP		GRP	1
	1	11-PUN	Ø2.5m x 6.0m DEEP RFR WET WELL		GRP	1
H	ITEM	PLANT No.	DESCRIPTION	MATERIAL	QTY	

PARTS LIST

6	15/02/2022	AMENDED AS PER REVIEW	BC	GL	GL
5	4/12/2021	AMENDED AS PER REVIEW	BC	GL	GL
4	18/11/2021	AMENDED AS PER REVIEW	BC	GL	GL
3	4/11/2021	STORAGE TANK PIPING ADDED, ELEC CAB. RELOCATED	BC	GL	GL
2	7/10/2021	STORAGE TANK ADDED	BC	GL	GL
1	7/10/2021	V/CHAMB ADDED - ISSUED FOR MANUFACTURE	BC	JP	JP
0	3/06/2021	ISSUED FOR MANUFACTURE	BC	JP	JP
B	13/04/2021	AMENDED TO MEET GCCC COMPLIANCE	BC	JP	JP
A	4/03/2021	GENERAL ARRANGMENT	BC	JP	JP
REV	DATE	DESCRIPTION	BY	CHK	APP

REVISION HISTORY

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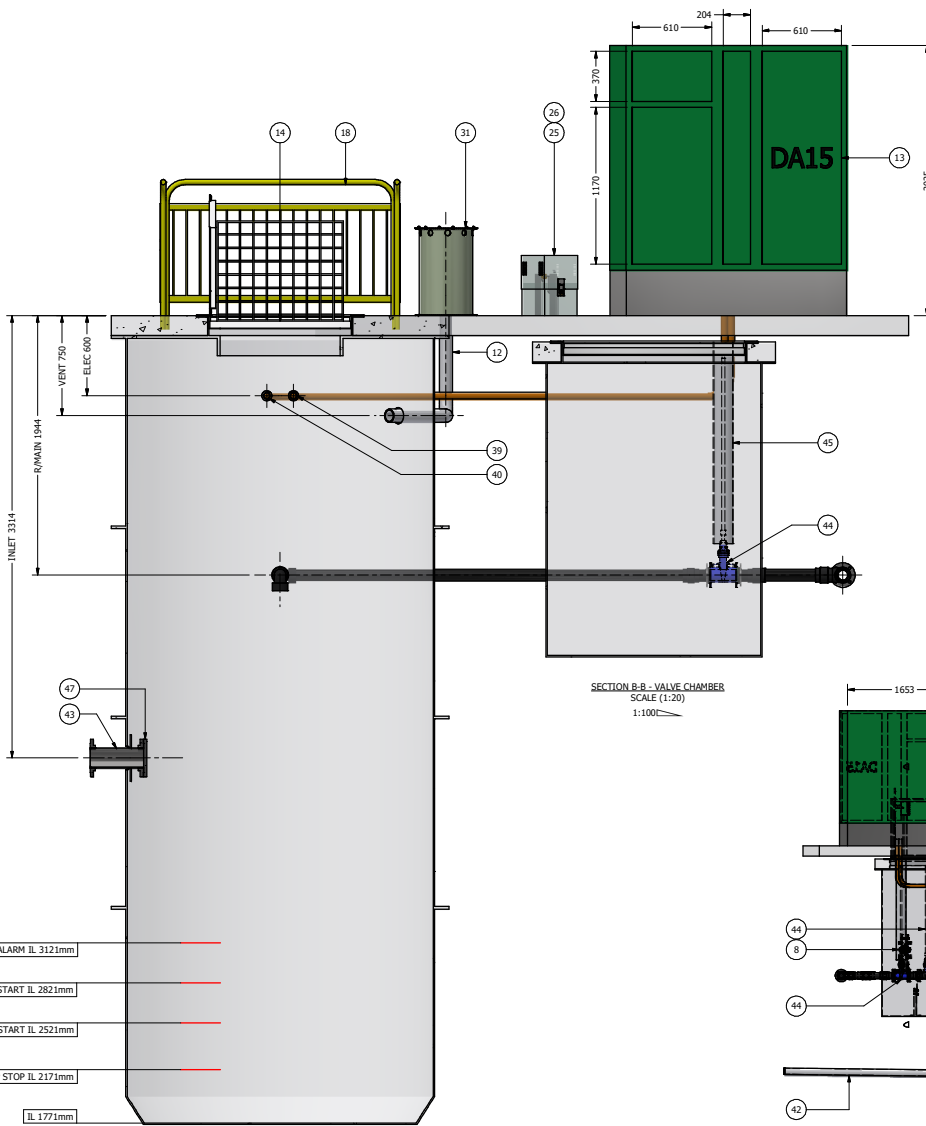
NOTE:
CONTROL PANEL TO BE
CONFIRMED ON COMPLETION
OF ELECTRICAL DESIGN
DOCUMENTATION

xylem
Let's Solve Water
XYLEM WATER SOLUTIONS
UNIT 2, 2 CAPECUIE DRIVE
EASTERN CREEK
SYDNEY, 2766
PH: +61 2 9832 6200
FX: + 2 9832 6483
ALSO ADELAIDE, BRISBANE, DARWIN
KALGOORLIE, KARRATHA, MELBOURNE
MACKAY, MT ISA, NEWCASTLE, ORANGE
SYDNEY, TOWNSVILLE, TASMANIA & AUST

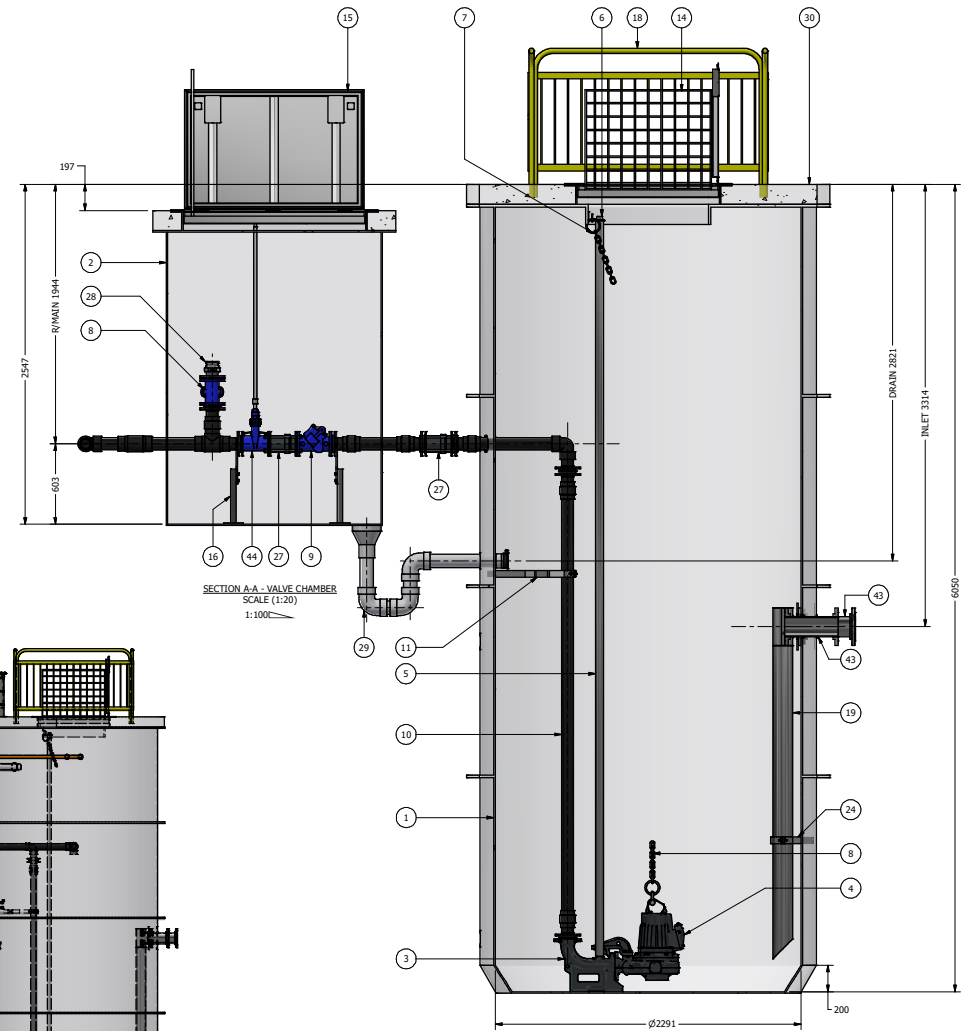
LINEAR TOLERANCES EXCEPT WHERE OTHERWISE STATED UP TO 315mm ±0.5mm 315mm TO 1000mm ±1.0mm 1001mm TO 2000mm ±2.0mm 2001 AND OVER ±3.0mm HOLE CENTRES ±0.5mm CLEARANCE HOLE Ø ±0.5mm	
LENGTH OF SHORTEST SIDE UP TO 120mm ± 20° 121mm AND OVER ± 10°	ANGLE
DIMENSIONS IN (mm)	

CLIENT:	GASSMAN CONSULTANTS
PROJECT:	VANTAGE YATATA_JACOBS WELL DA15
TITLE:	11-FRP2560-90DESS w/ FLYGT NP3127.161-SH247, 7.4KW SUBMERSIBLE PUMPS PLAN VIEW

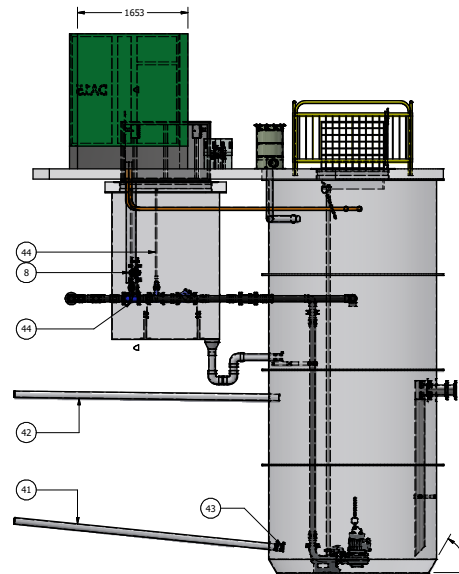
CONTRACT / REFERENCE No:			
TBA			
DRAWN: BC		CHECKED: JP	
DATE: 4.3.2021		APPROVED: JP	
SHEET: 2 of 4		SCALE: 1:12	
DWG No:		SHT SIZE:	REV:
FA8368-01		A1	6



SECTION B-B - PUMP STATION
SCALE (1 : 20)



SECTION A-A - PUMP STATION
SCALE (1 : 20)



REAR SIDE ELEVATION - PUMP STATION
SCALE (1 : 40)

REV	DATE	DESCRIPTION	BY	CHK	APP
6	15/02/2022	AMENDED AS PER REVIEW	BC	GL	GL
5	4/12/2021	AMENDED AS PER REVIEW	BC	GL	GL
4	18/11/2021	AMENDED AS PER REVIEW	BC	GL	GL
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2	27/10/2021	STORAGE TANK ADDED	BC	GL	GL
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0	3/06/2021	ISSUED FOR MANUFACTURE	BC	JP	JP
B	13/04/2021	AMENDED TO MEET GCCC COMPLIANCE	BC	JP	JP
A	4/03/2021	GENERAL ARRANGEMENT	BC	JP	JP

REVISION HISTORY

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EASTERN CREEK
SYDNEY, 2766
PH: +61 2 9832 6200
FX: +2 9832 6483

LENGTH OF
UP TO 120mm
121mm AND OVER
UP TO 120mm
121mm AND OVER
UP TO 120mm
121mm AND OVER

CLIENT: GASSMAN CONSULTANTS
PROJECT: VANTAGE YATALA JACOBS
WELL DA15
TITLE: 11-FRP2560-90DESS w/
FLYGT NP3127.161-SH247, 7.4kW SUBMERSIBLE PUMPS
SECTION A-A and B-B DETAIL

CONTRACT / REFERENCE No: TBA
DRAWN: BC CHECKED: JP
DATE: 4.3.2021 APPROVED: JP
SHEET: 3 of 4 SCALE: 1:20
DWG No: FA8368-01 SHT SIZE: A1 REV: 6

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2021/610

Dated: 10 March 2022

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

