

SAMPLE ROAD, GREEN SQUARE SP### SEWAGE PUMPING STATION

SITE COVER SHEET

DWG N°.	TITLE	SHEET	REVISIONS				
SP###-1000-EE-DRG-0001	DRAWING INDEX	01	П	Т			
SP###-1000-EE-DRG-0002	SINGLE LINE DIAGRAM - 400VAC & 230VAC	02		\neg			
SP###-1000-EE-DRG-0003	POWER DISTRIBUTION SCHEMATIC DIAGRAM - 400VAC & 230VAC	03		\neg			
SP###-1000-EE-DRG-0004	SCHEMATIC DIAGRAM - SUBMERSIBLE PUMP No1	04		T			
SP###-1000-EE-DRG-0005	SCHEMATIC DIAGRAM - SUBMERSIBLE PUMP No2	05		T			
SP###-1000-EE-DRG-0006	RESERVED DRAWING SHEET	06		\neg			
SP###-1000-EE-DRG-0007	RESERVED DRAWING SHEET	07		\neg			
SP###-1000-EE-DRG-0008	SCHEMATIC DIAGRAM - MANUAL TRANSFER SWITCH	08		\top			
SP###-1000-EE-DRG-0009	SCHEMATIC DIAGRAM - COMMON CONTROLS	09		\neg			
SP###-1000-EE-DRG-0010	SCHEMATIC DIAGRAM - COMMON RTU 1/0	10	П	\neg			
SP###-1000-EE-DRG-0011	SCHEMATIC DIAGRAM - 24VDC DISTRIBUTION & RTU LAYOUT	11	П	\neg			
SP###-1000-EE-DRG-0012	TERMINATION DIAGRAM - RTU DIGITAL INPUTS - SHEET 1 OF 2	12	П	\neg			
SP###-1000-EE-DRG-0013	TERMINATION DIAGRAM - RTU DIGITAL INPUTS - SHEET 2 OF 2	13	П	\neg			
SP###-1000-EE-DRG-0014	RESERVED DRAWING SHEET	14	П	\Box			
SP###-1000-EE-DRG-0015	TERMINATION DIAGRAM - RTU DIGITAL OUTPUTS - SHEET 1 OF 2	15	П	\Box			
SP###-1000-EE-DRG-0016	TERMINATION DIAGRAM - RTU DIGITAL OUTPUTS - SHEET 2 OF 2	16	П	\Box			
SP###-1000-EE-DRG-0017	TERMINATION DIAGRAM - RTU ANALOG INPUTS	17	П	\Box			
SP###-1000-EE-DRG-0018	TERMINATION DIAGRAM - RTU ANALOG OUTPUTS	18	П	\neg			
SP###-1000-EE-DRG-0019	TERMINATION DIAGRAM - COMMON CONTROLS	19	П				
SP###-1000-EE-DRG-0020	EQUIPMENT SCHEDULE	20	П				
SP###-1000-EE-DRG-0021	CABLE SCHEDULE	21	П	\neg			
SP###-1000-EE-DRG-0022	LABEL SCHEDULE	22	П	\neg			
SP###-1000-EE-DRG-0023	CONSTRUCTION DETAILS - SHEET 1 of 3	23	П	\neg			
SP###-1000-EE-DRG-0024	CONSTRUCTION DETAILS - SHEET 2 of 3	24	П	\neg			
SP###-1000-EE-DRG-0025	CONSTRUCTION DETAILS - SHEET 3 of 3	25	П	\neg			
SP###-1000-EE-DRG-0026	INSTALLATION DETAILS - FIELD INSTRUMENTS	26					
SP###-1000-EE-DRG-0027	RESERVED DRAWING SHEET	27					
SP###-1000-EE-DRG-0028	RESERVED DRAWING SHEET	28					
SP###-1000-EE-DRG-0029		29	П	\neg			
SP###-1000-EE-DRG-0030	RESERVED DRAWING SHEET	30	П	\neg			
SP###-1000-EE-DRG-0031	GENERAL ARRANGEMENT - MAIN SWITCHBOARD - ELEVATIONS	31					
SP###-1000-EE-DRG-0032	GENERAL ARRANGEMENT - MAIN SWITCHBOARD - SECTIONS	32		丁			
SP###-1000-EE-DRG-0033	RESERVED (GENERATOR EXTERNAL CONNECTION BOX)	33		\Box			
SP###-1000-EE-DRG-0034	CLEARANCE REQUIREMENTS - MAIN SWITCHBOARD	34		\top			
SP###-1000-EE-DRG-0035	RESERVED SWITCHBOARD SLAB - LOCALITY & SITE PLANS-SHEET 1 of 3	40	\Box	\neg			
SP###-1000-EE-DRG-0036	RESERVED SWITCHBOARD SLAB AND CONDUIT DETAILS-SHEET 2 of 3	41	П	一			
SP###-1000-EE-DRG-0037	RESERVED SWITCHBOARD & ELECTRICAL CONDUIT LAYOUT-SHEET 3 of 3	42	П	\neg			

STANDARD VARIABLES	
DESCRIPTION	VALUES
PRIMARY CONTROLLER	
NORMAL SUPPLY MAIN SWITCH	t.b.a. S250PE 3 125
GENERATOR SUPPLY MAIN SWITCH	t.b.a. S250PE 4 125
PUM CIRCUIT BREAKER	t.b.a. <<\$125GJ/20>>
PUMP2 CIRCUIT BREAKER	t.b.a. <<\$125GJ/20>>
PUMP RATING	7.5kW < ? >A
PUMP SOFT STARTER SIZE	<mcd6-0020b +×<??="">>A</mcd6-0020b>
PUMP LINE CONTACTOR	< <ca7-23e>> <<??>>A</ca7-23e>
PUMP SOCKET OUTLET + INCLINE SLEEVE	DS1 3114013972 + 51BA757
PUMP INLET PLUG + HANDLE	DS1 3118013972 + 311A013
WET WELL LEVEL TRANSMITTER	WL52XXA4AMD1DD1X t.b.a.
DELIVERY PRESSURE TRANSMITTER	B82.IXARDAGGSHXK AMA X L=20m
FLOWMETER RANGE	NOT APPLICABLE
RADIO RADIO	
BACKUP COMMS - 4G MODEM	
EMERGENCY PUMPING TIME	t.b.a.set
INCOMING MAINS SUPPLY CABLE	16mm?
MAIN EARTHING CABLE	6mm?
STARTER SUPPLY CABLE	< ? >mm?
PUMP SUPPLY CABLE	< ? >mm?
SEWAGE PUMPS - SAFETY STOP CATEGORY	CATEGORY 1

STANDARD VARIARI ES

	STANDARD DESIGN OPTIONS	
OPTION	DESCRIPTION	FITTED
Α	INDIVIDUAL PUMP MOISTURE IN CHAMBER SENSOR AND FAULT RELAY	YES 🖎
В	INDIVIDUAL PUMP STATOR TEMPERATURE SENSOR AND FAULT RELAY	YES D
£	INDIVIDAL PUMP REFLUX VALVE MICRO SWITCH	ĭŒŜ N
D	UPSTREAM MANHOLE SURCHARGE IMMINENT PROBE	MS N
Е	STATION DRY WELL SUMP PUMP & LEVEL SENSORS & RELAYS	∭ N
F	STATION PERMANENT GENERATOR (ATS AND CONTROLS)	∭ N
G	STATION EMERGENCY STORAGE LEVEL SENSOR & DEWATERING PUMP	ĭ\$ES N
Н	STATION DELIVERY FLOWMETER	∭ N
	PRIMARY COMMUNICATION	YES DE
J	PUMP CONNECTION METHOD - (Via Switchboard De-contactor)	YES D
К	CATHODIC PROTECTION	1585€SIN
L	MOTOR THERMISTORS	1585€SIN
М	ODOUR CONTROL	15HSI N
N	CURRENT TRANSFORMER (CT) METERING	ØHSI N
0		YES N
Р	WET WELL WASHER	1585€SIN
Q	VALVE PIT SUMP PUMP AND LEVEL PROBE	15HSI N
R	BACKUP COMMUNICATION	YES DE
S	SECONDARY WET WELL LEVEL SENSOR (ULTRASONIC)	ØHSI N
Т	PRIMARY WET WELL LEVEL SENSOR	YES D
IJ	DELIVERY PRESSURE TRANSMITTER	YES 🖼
٧	CHEMICAL DOSING	1535€SI N
W	SOFT STARTER	YES D
Х	3rd PUMP INSTALLED	™SSS N
Y	POWER METER	MSSSS N

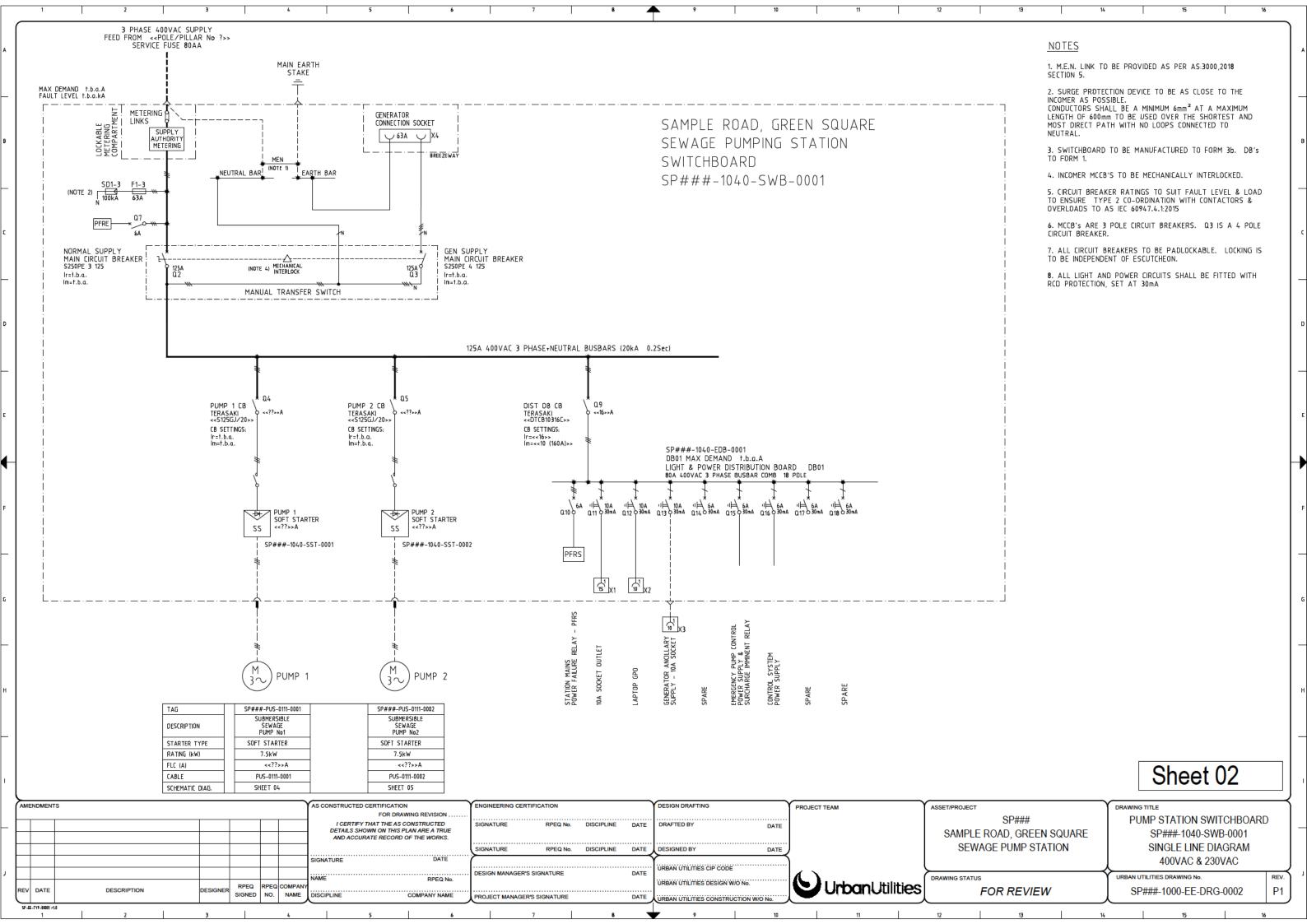
NOTE: Urban Utilities accepts no liability for the use of typical drawings, which must be adapted to the requirements of the particular system and accompanied by detailed designs certified by RPEQ

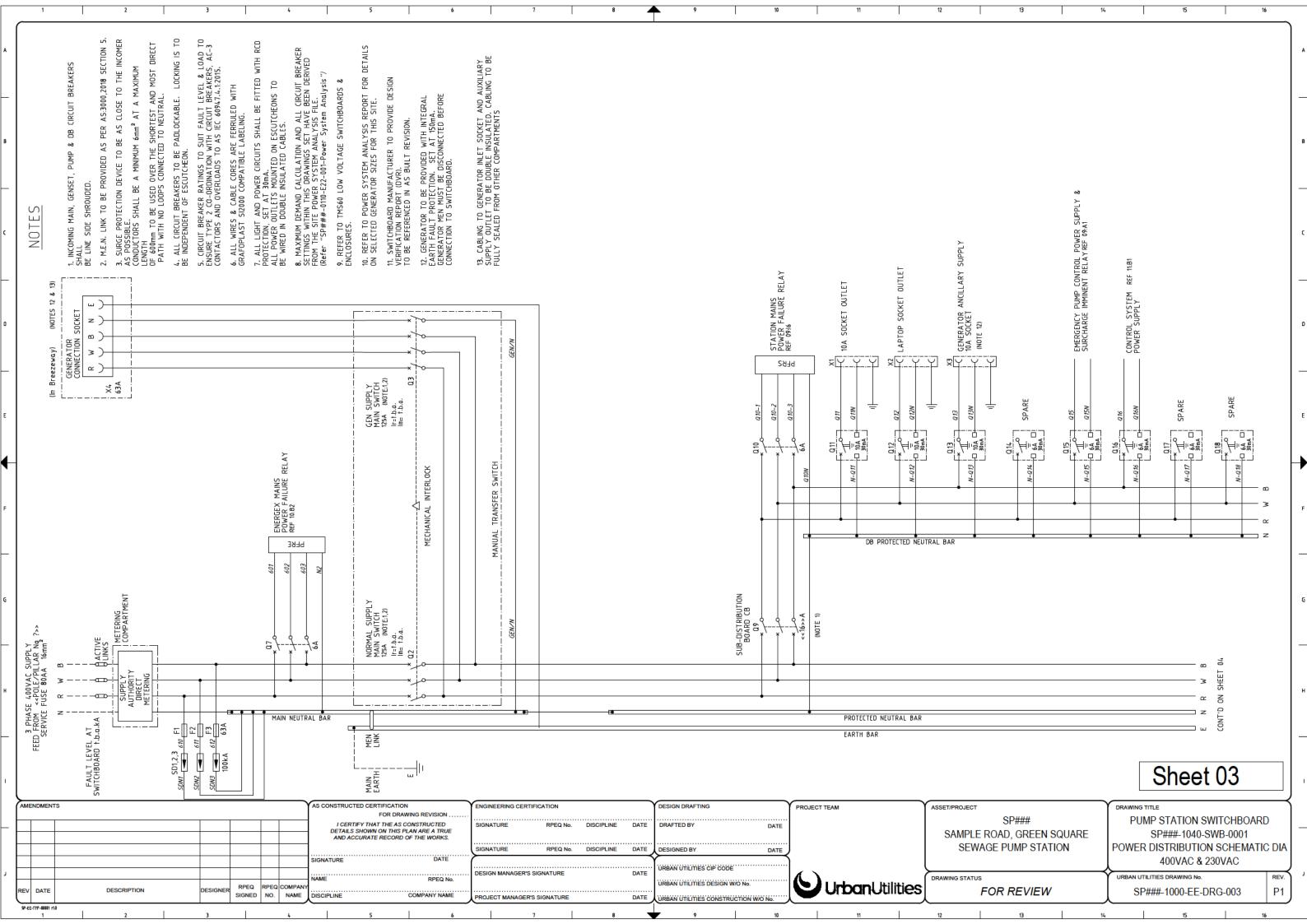
Sheet 01

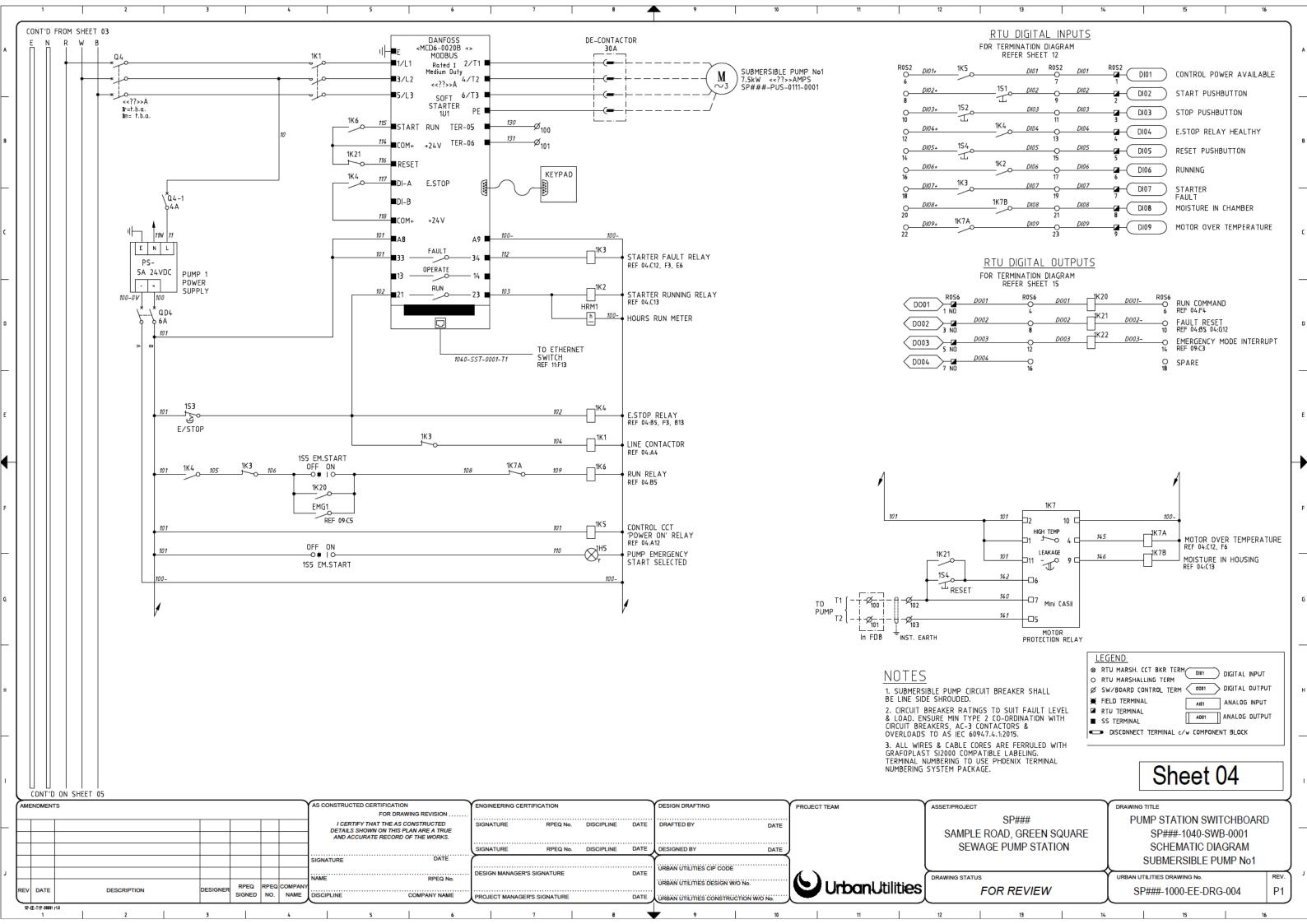
		<u> </u>												
ME	NDMENT	s					AS CONSTRUCTED CERTIFICATION FOR DRAWING REVISION	ENGINEERING CERTIFICA	ATION			DESIGN DRAFTING	PROJECT TEAM	ASSET/PROJECT
							I CERTIFY THAT THE AS CONSTRUCTED DETAILS SHOWN ON THIS PLAN ARE A TRUE	SIGNATURE	RPEQ No.	DISCIPLINE	DATE	DRAFTED BY DATE		SP###
							AND ACCURATE RECORD OF THE WORKS.							SAMPLE ROAD, GREEN S
								SIGNATURE	RPEQ No.	DISCIPLINE	DATE	DESIGNED BY DATE		SEWAGE PUMP STAT
							SIGNATURE DATE	Ć				URBAN UTILITIES CIP CODE	1	
							NAME RPEQ No.	DESIGN MANAGER'S SIGN	NATURE		DATE		()	DRAWING STATUS
_,	DATE	DESCRIPTION	DESIGNER	RPEQ	RPEQ	COMPANY	Til Ed Ho.					URBAN UTILITIES DESIGN W/O No.	Urban Utilities	
	DATE	DESCRIPTION	DESIGNER	SIGNED	NO.	NAME	DISCIPLINE COMPANY NAME	PROJECT MANAGER'S SI	GNATURE		DATE	URBAN UTILITIES CONSTRUCTION W/O No.	Of Dai louides	FOR REVIEW

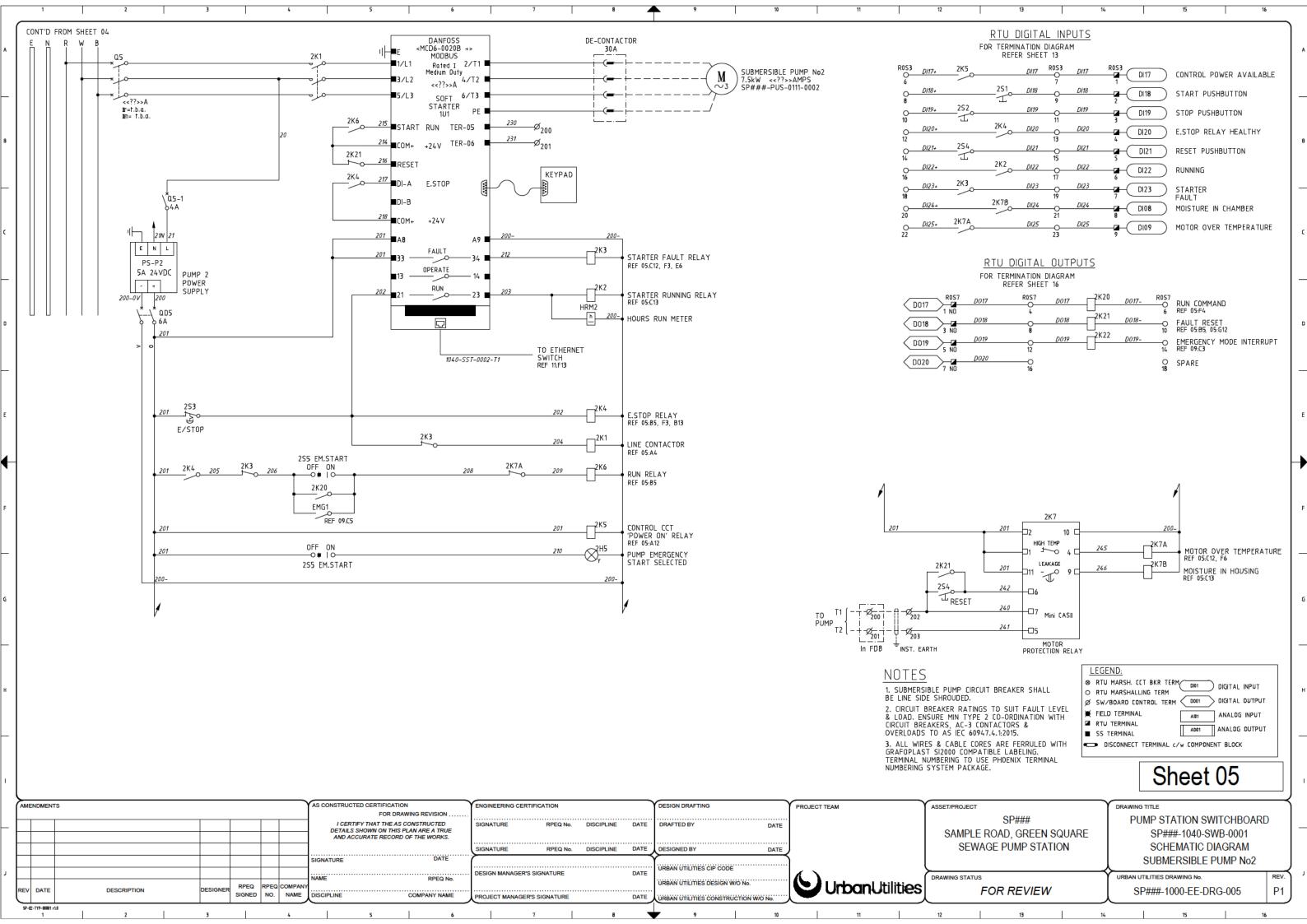
SP### PUMP STATION SWITCHBOARD ROAD, GREEN SQUARE SP###-1040-SWB-0001 DRAWING INDEX GE PUMP STATION

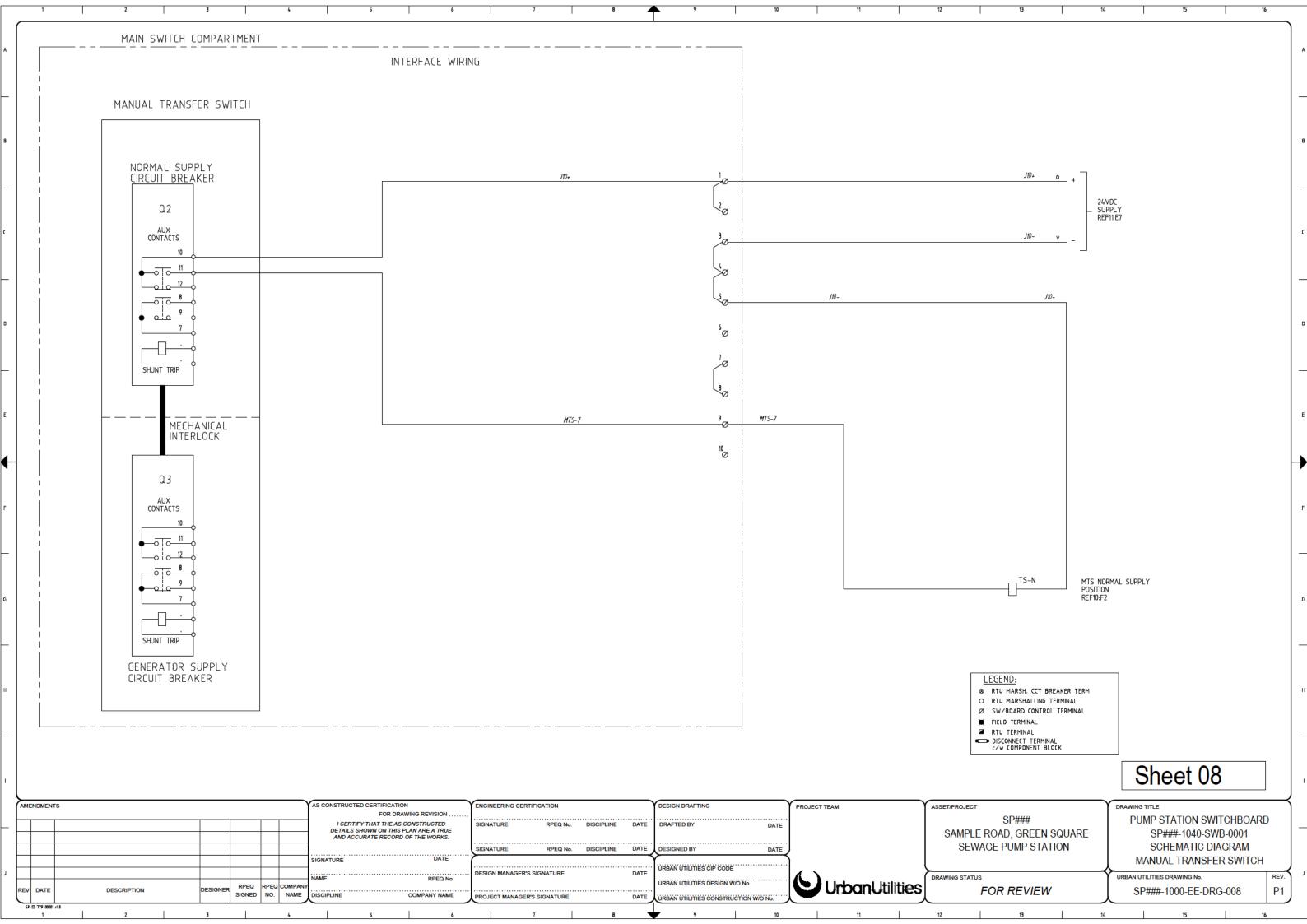
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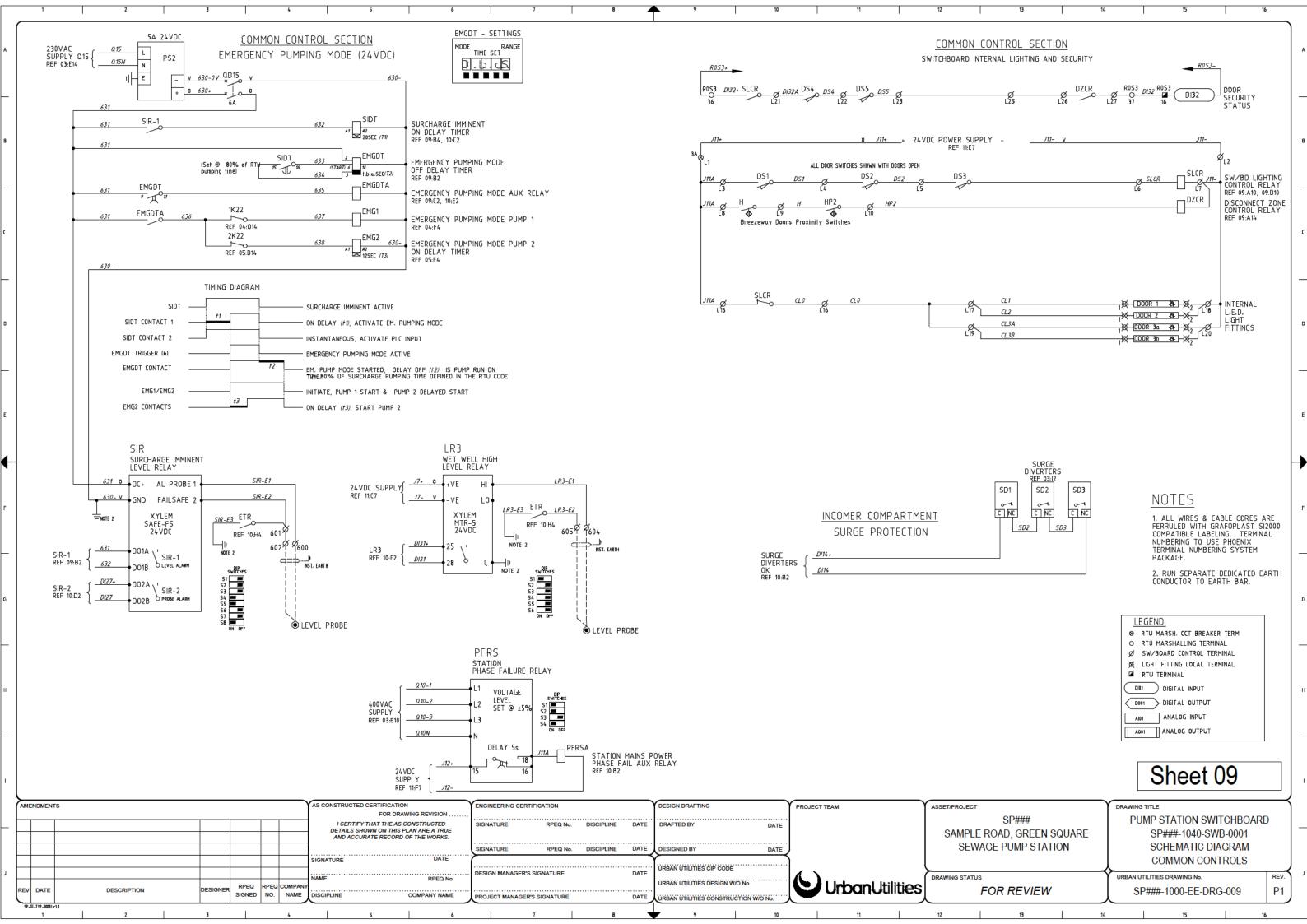


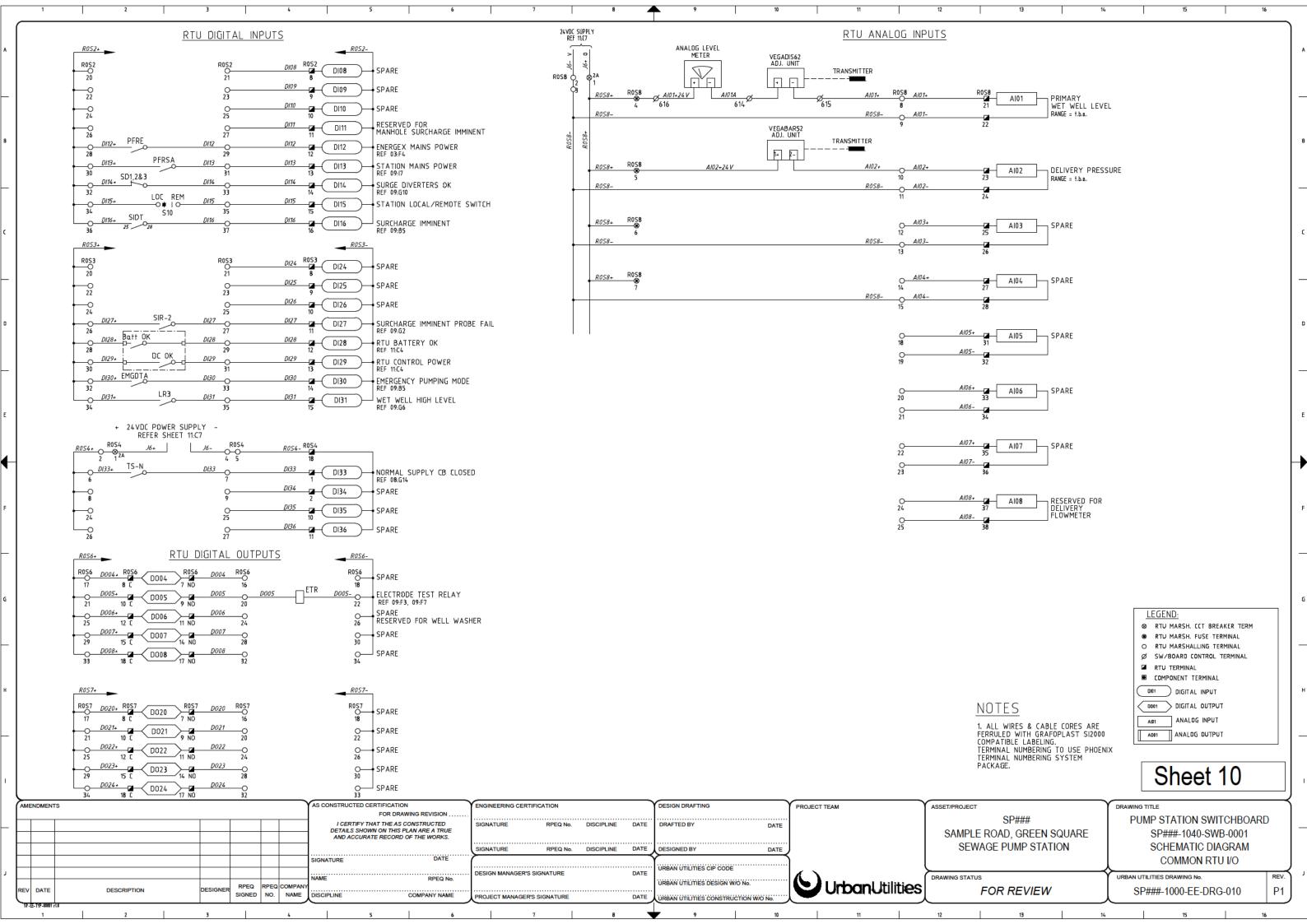


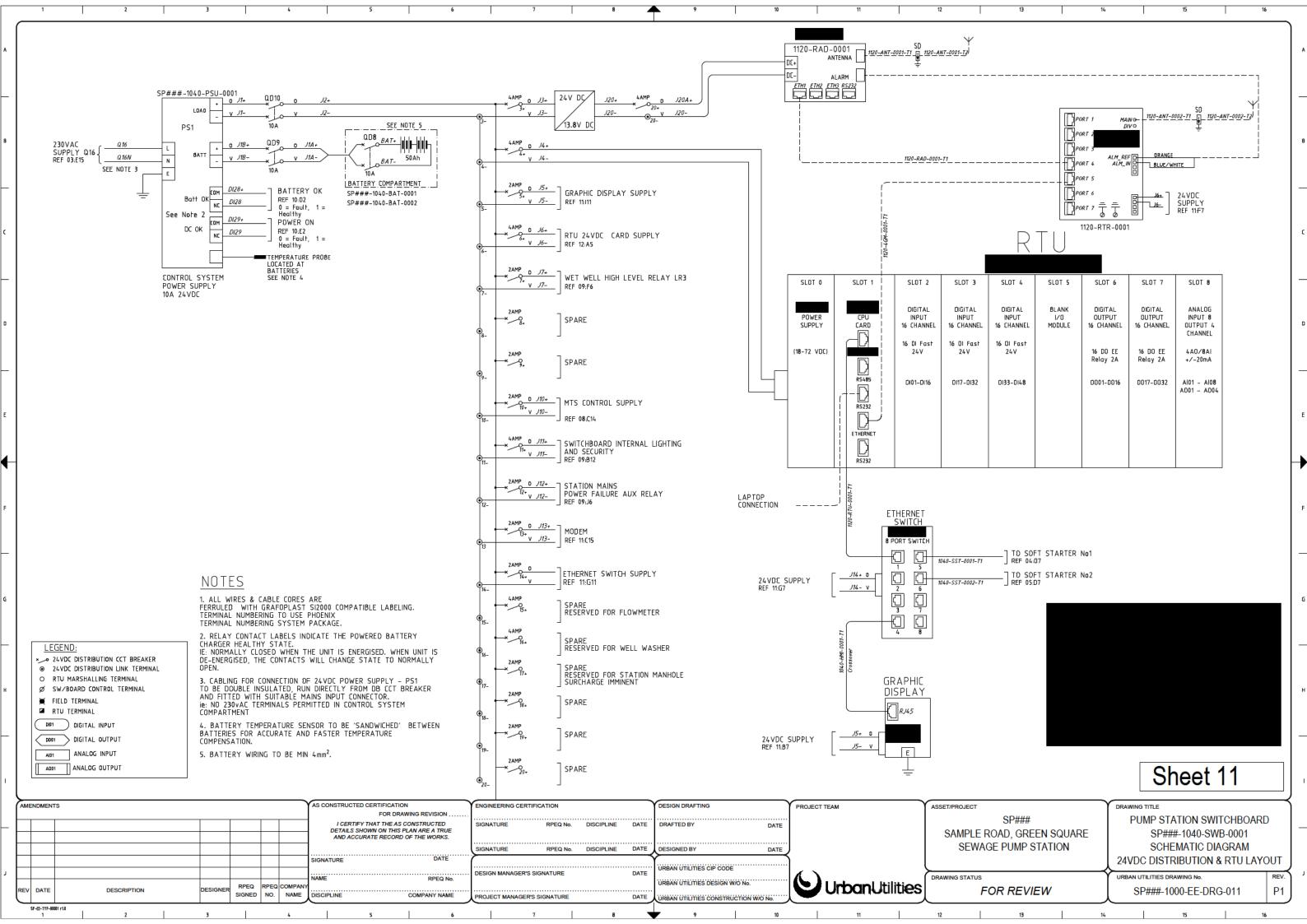


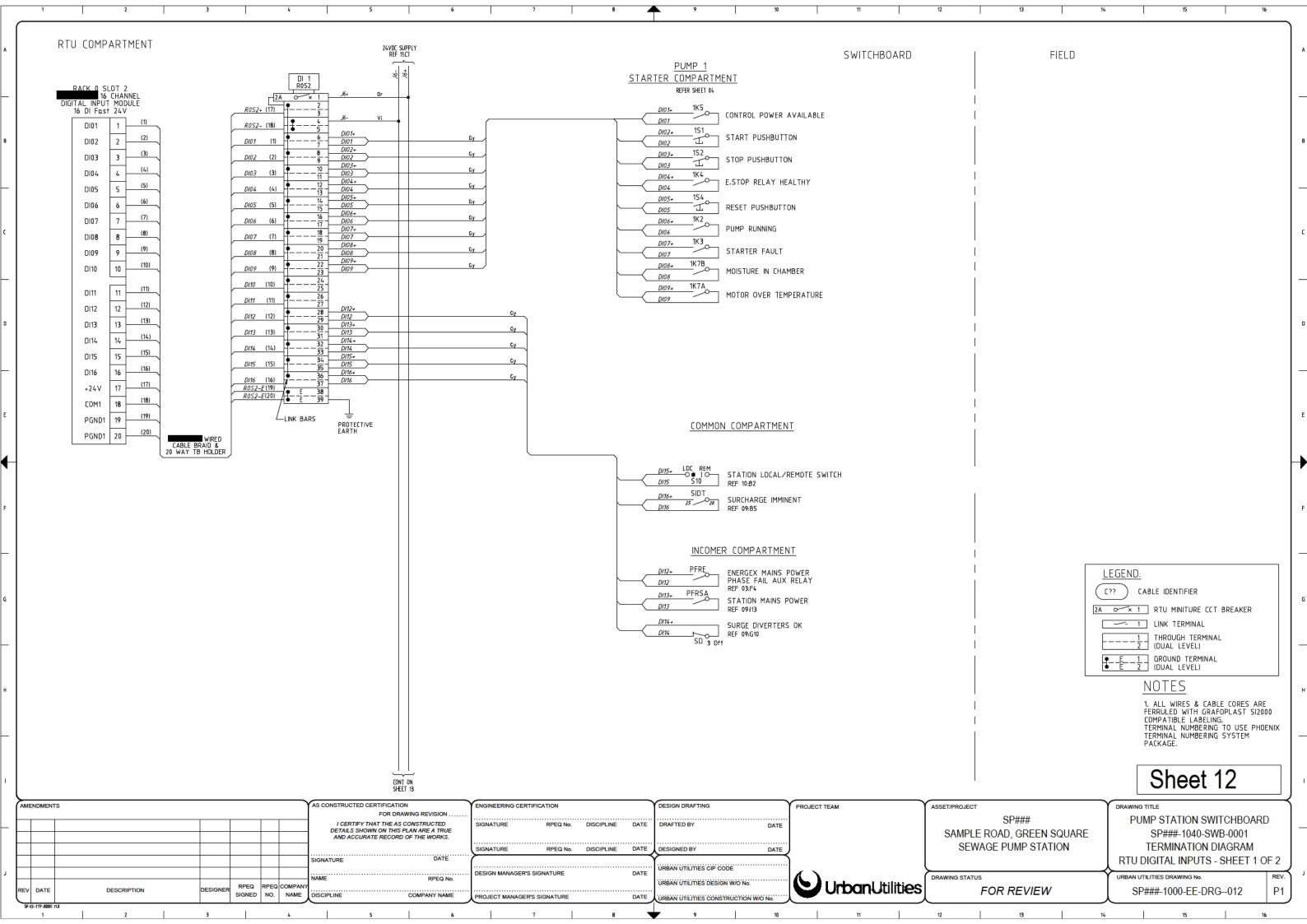


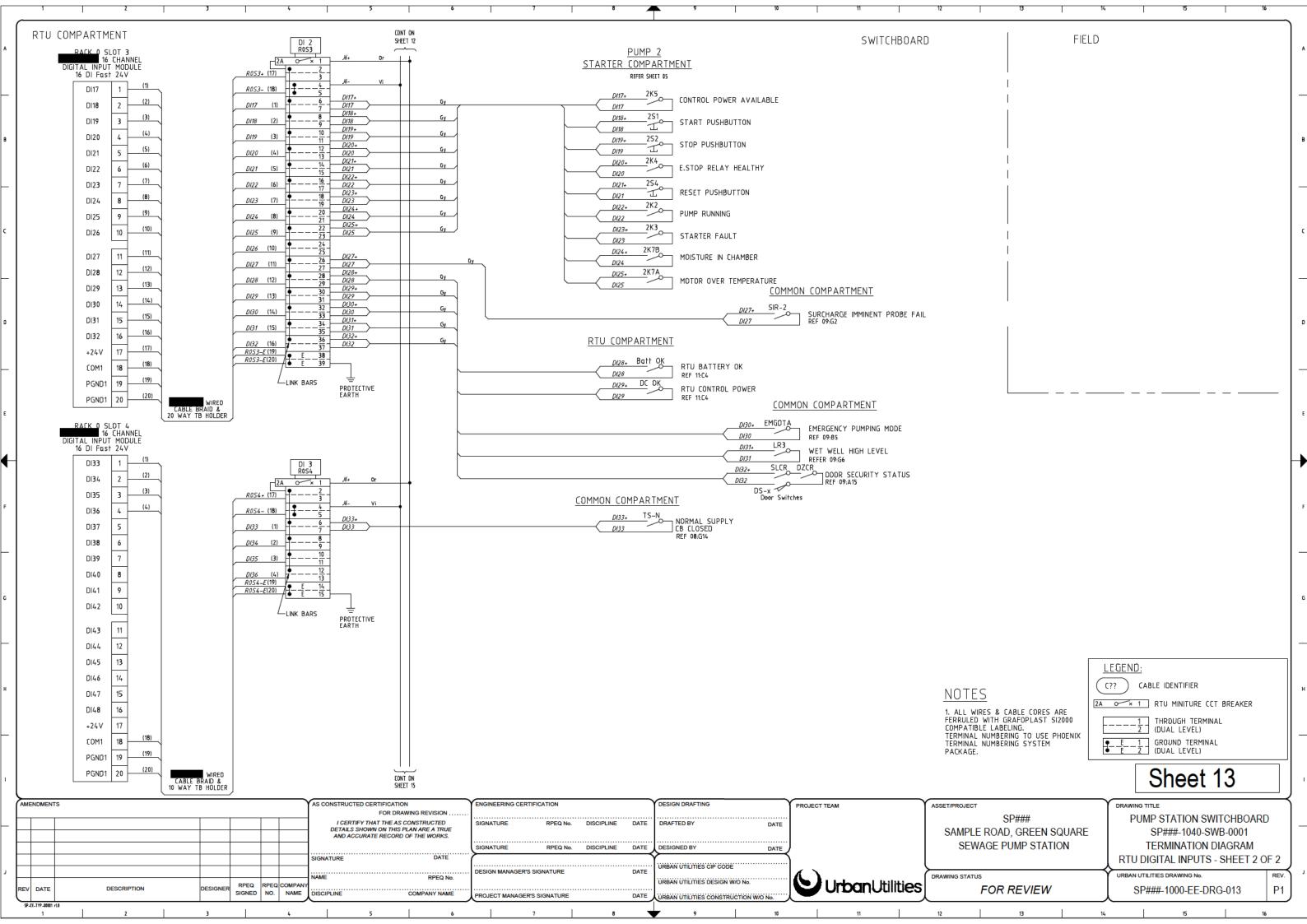


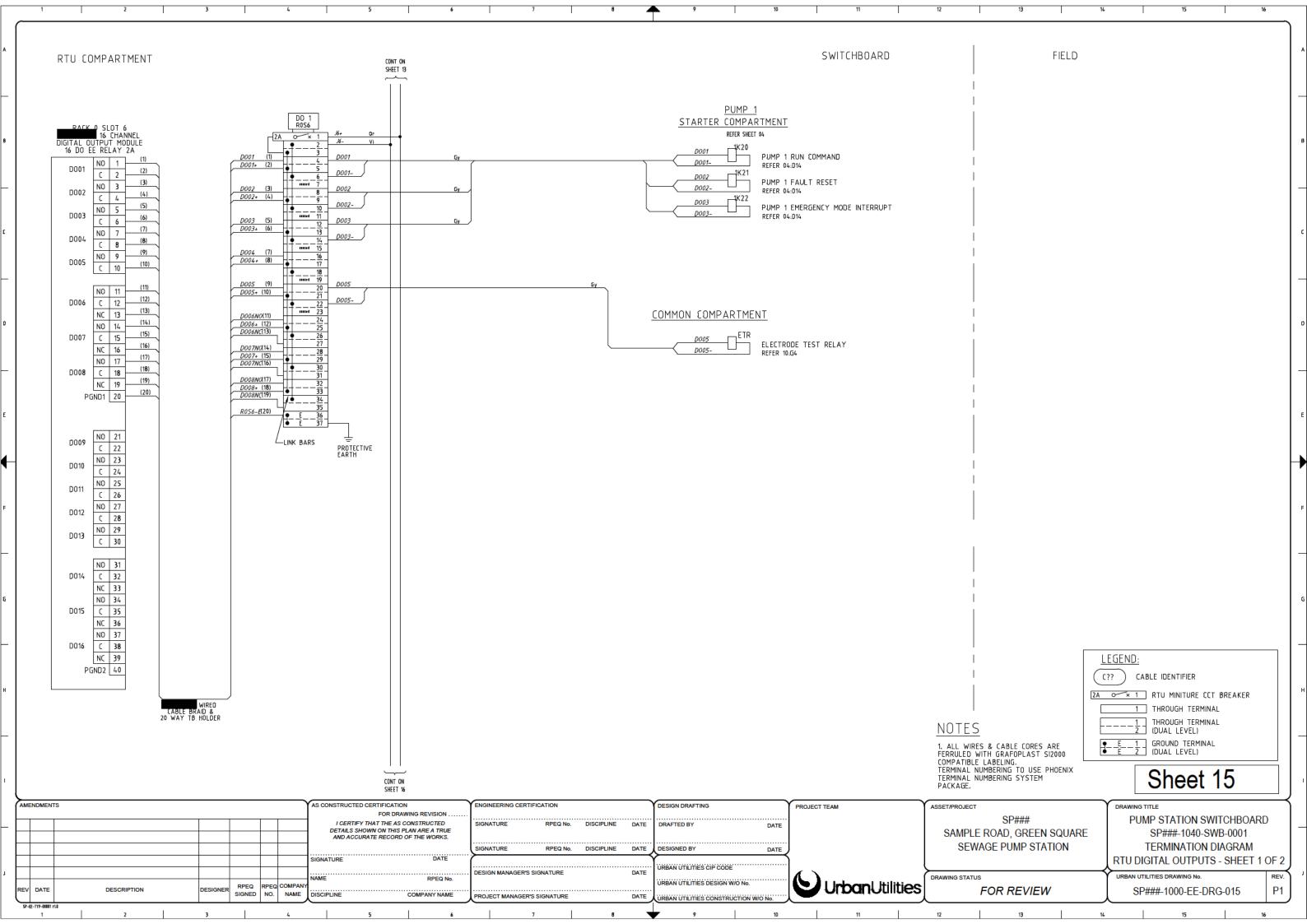


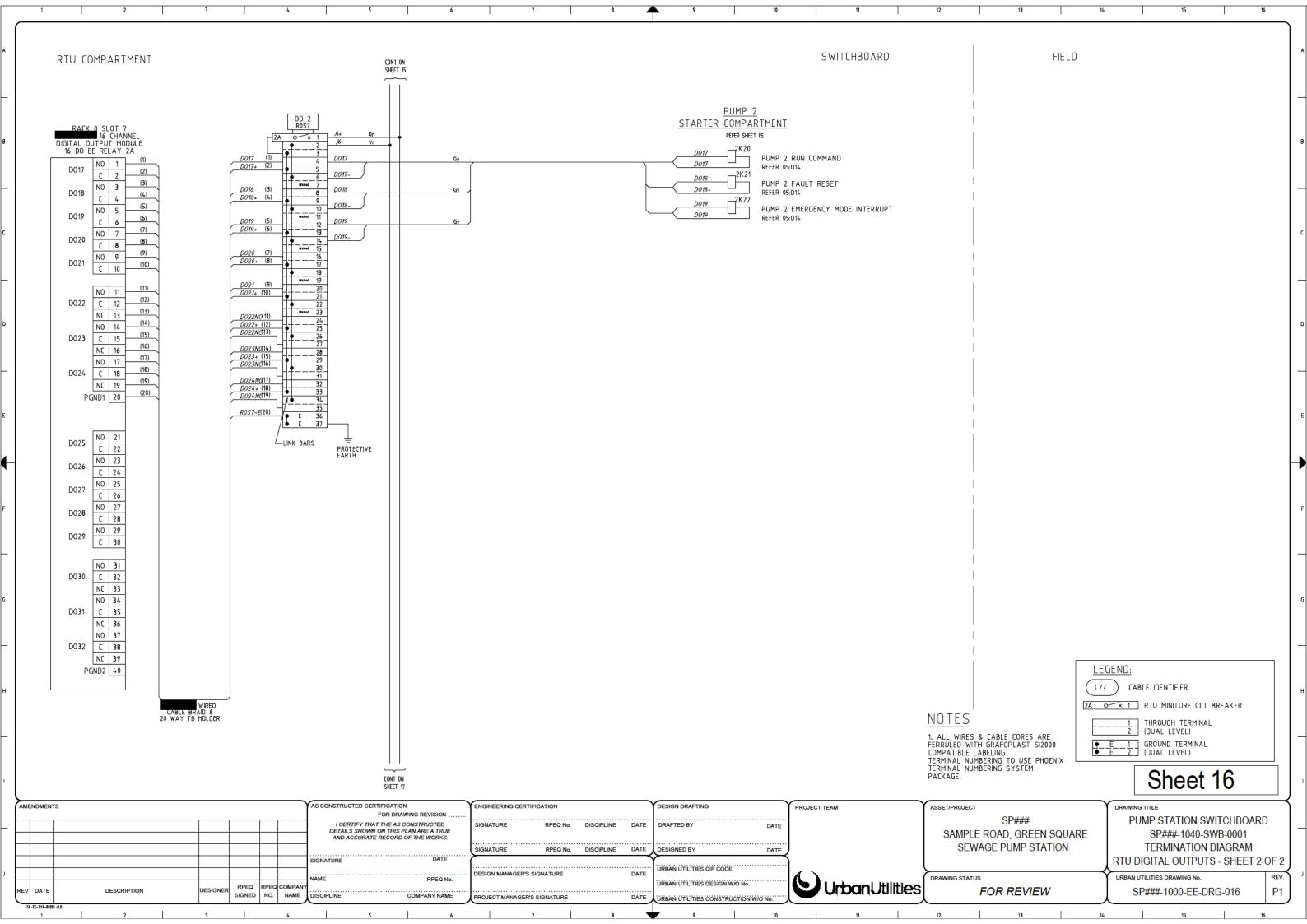


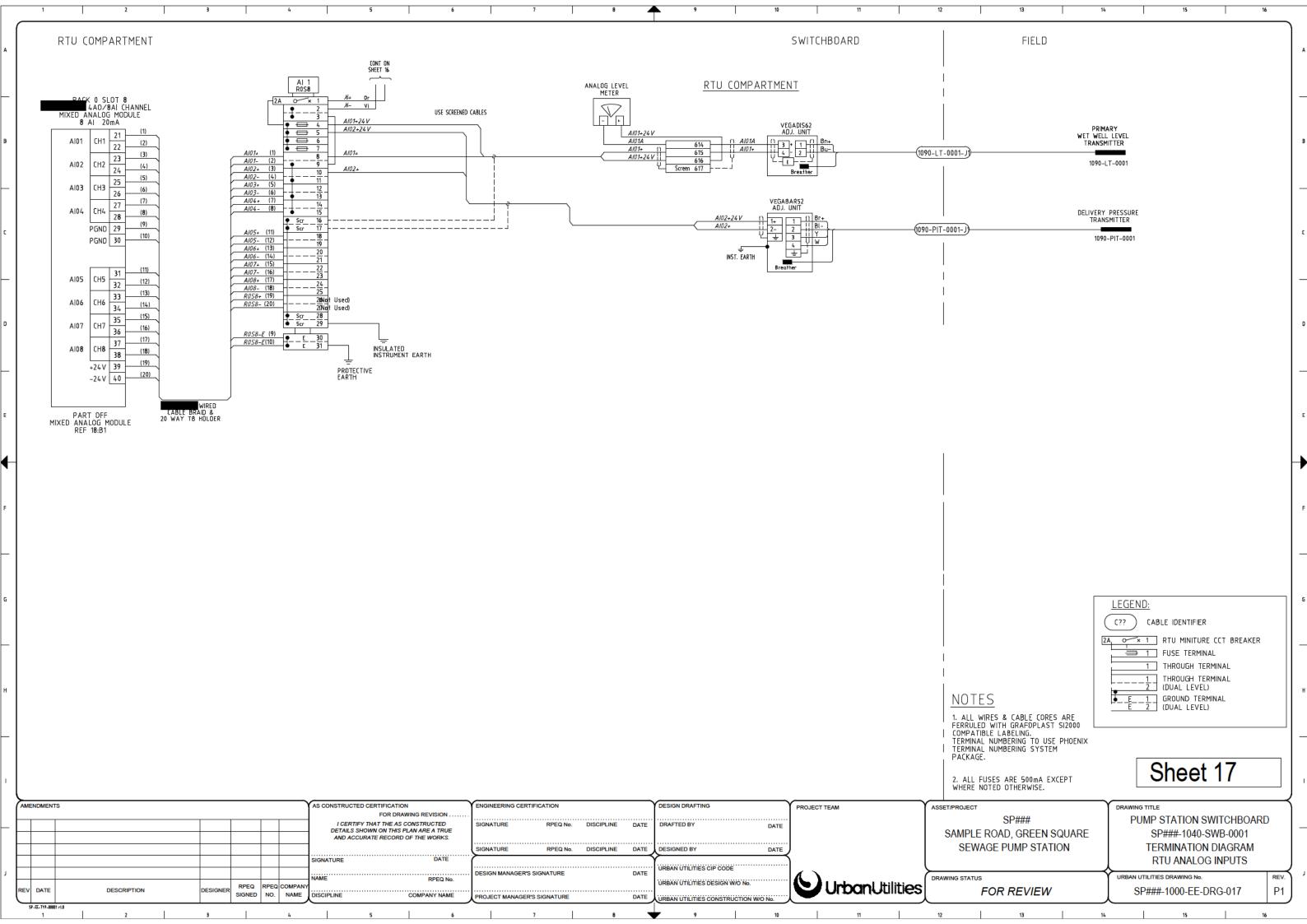


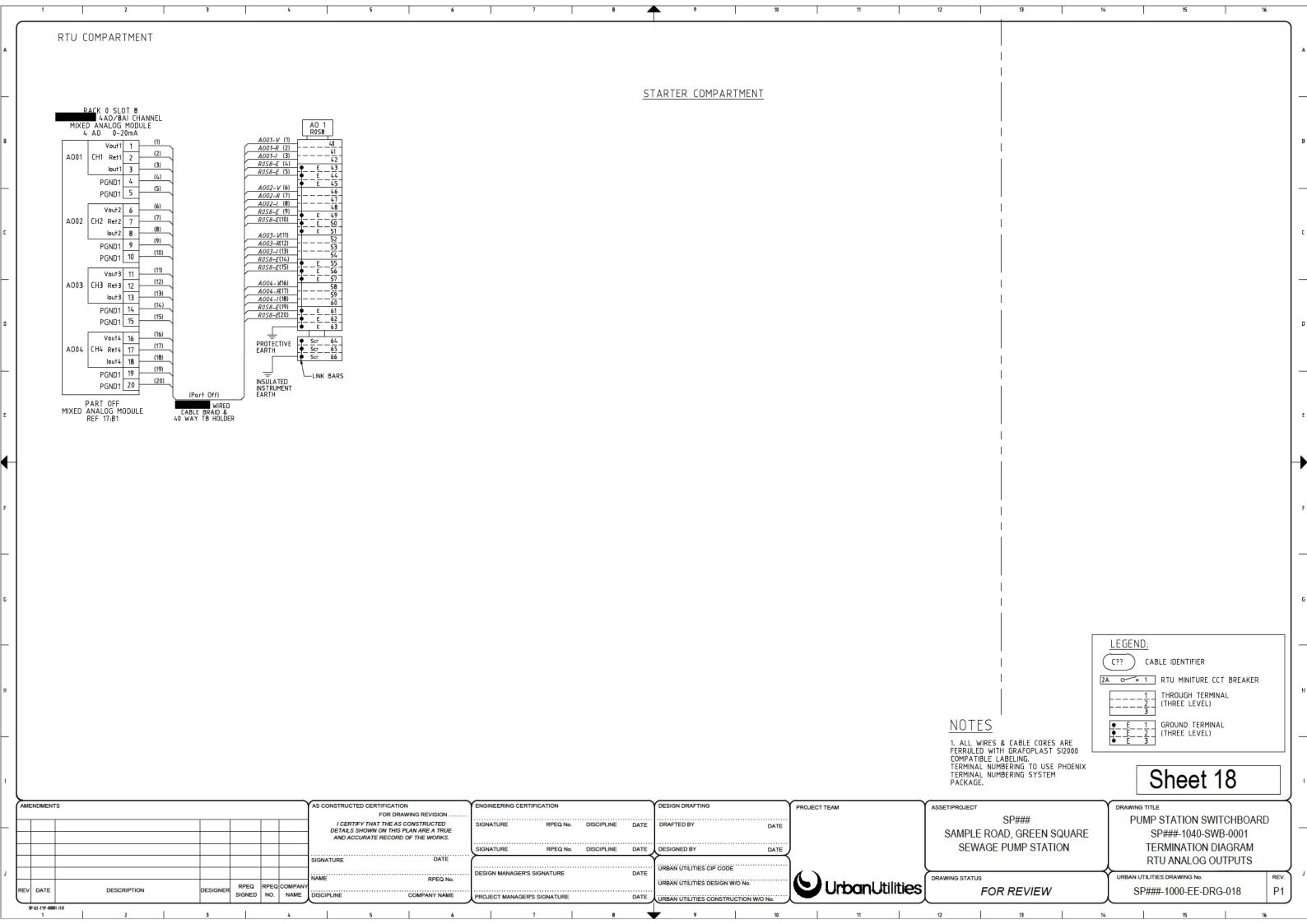


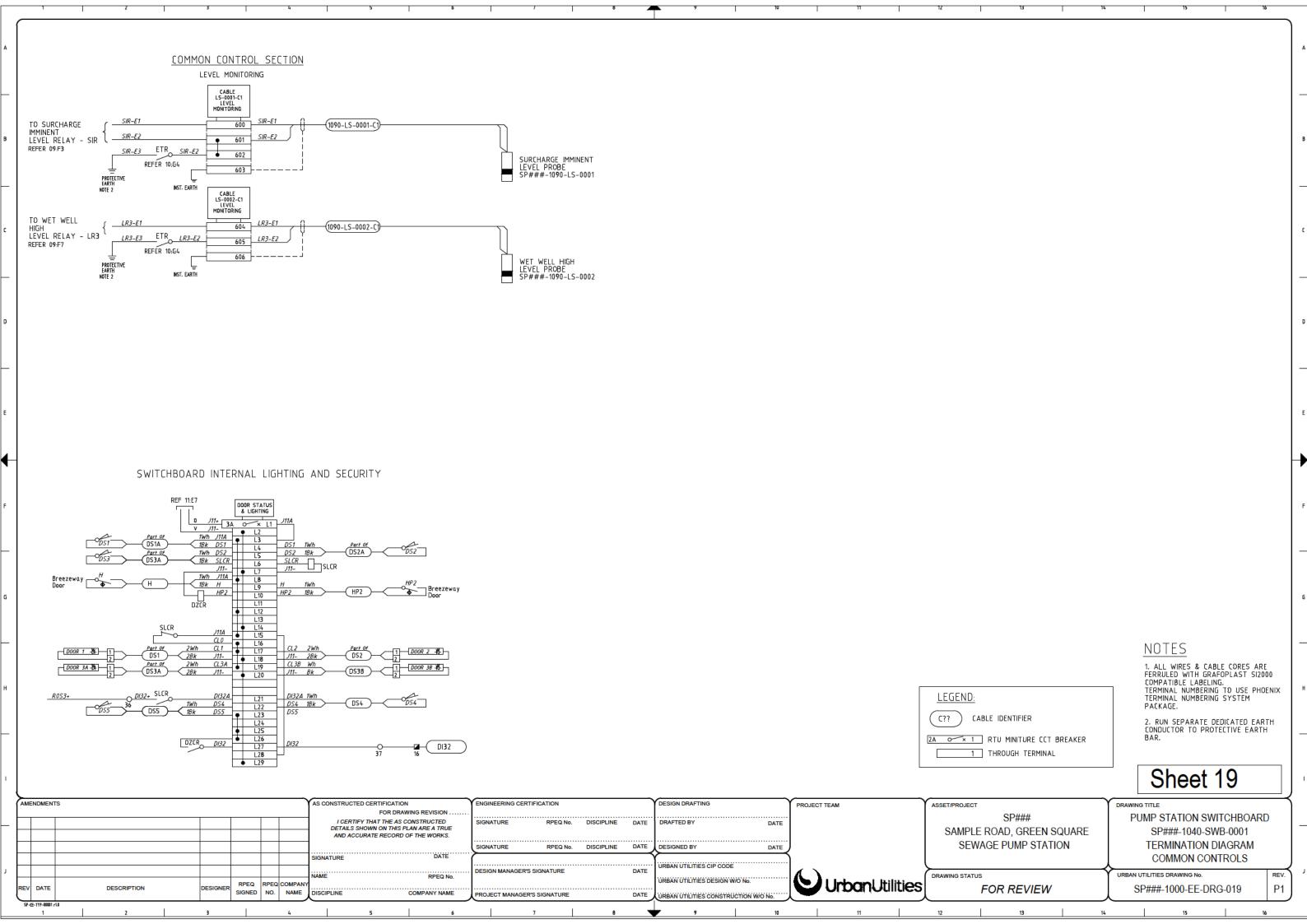




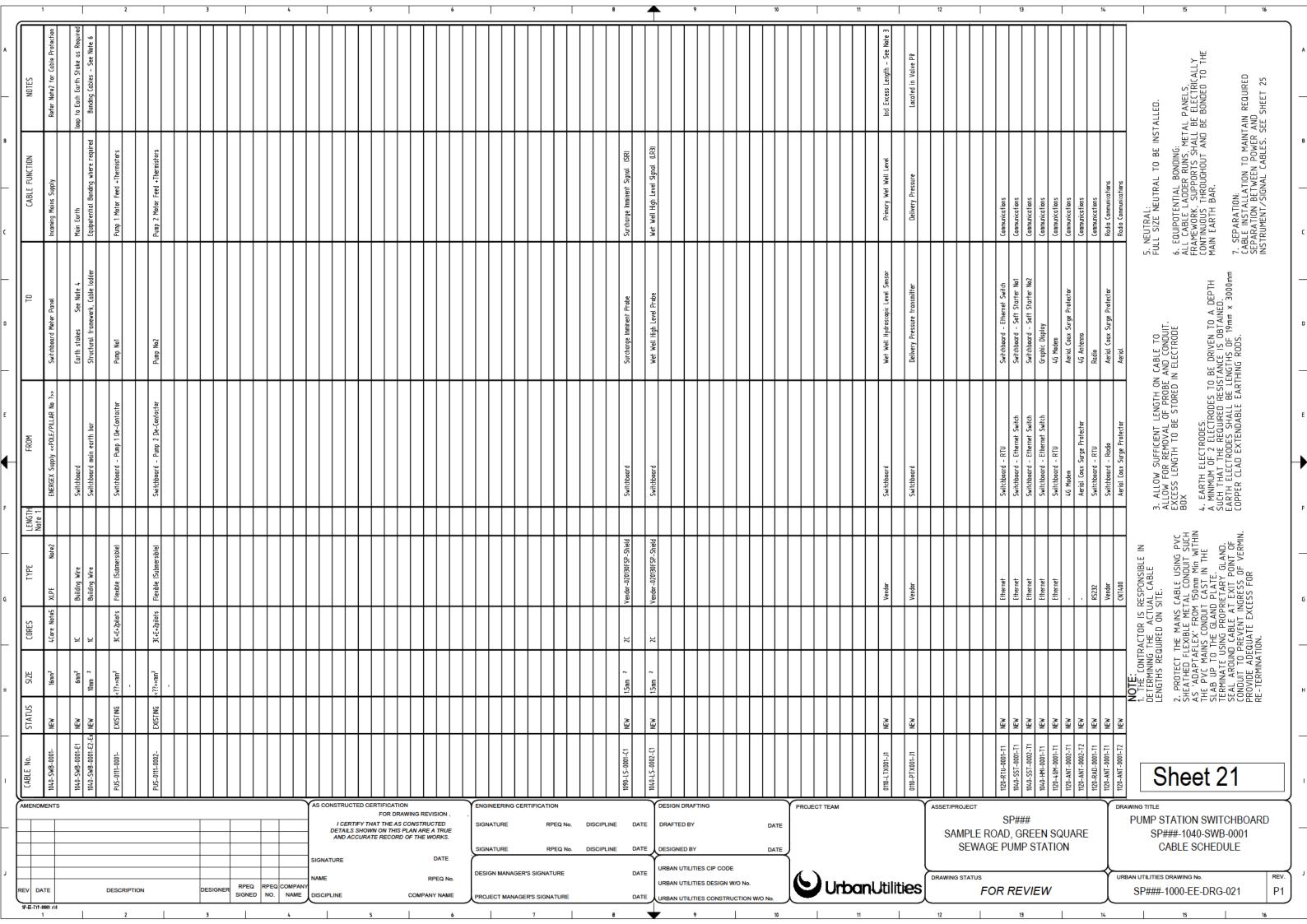




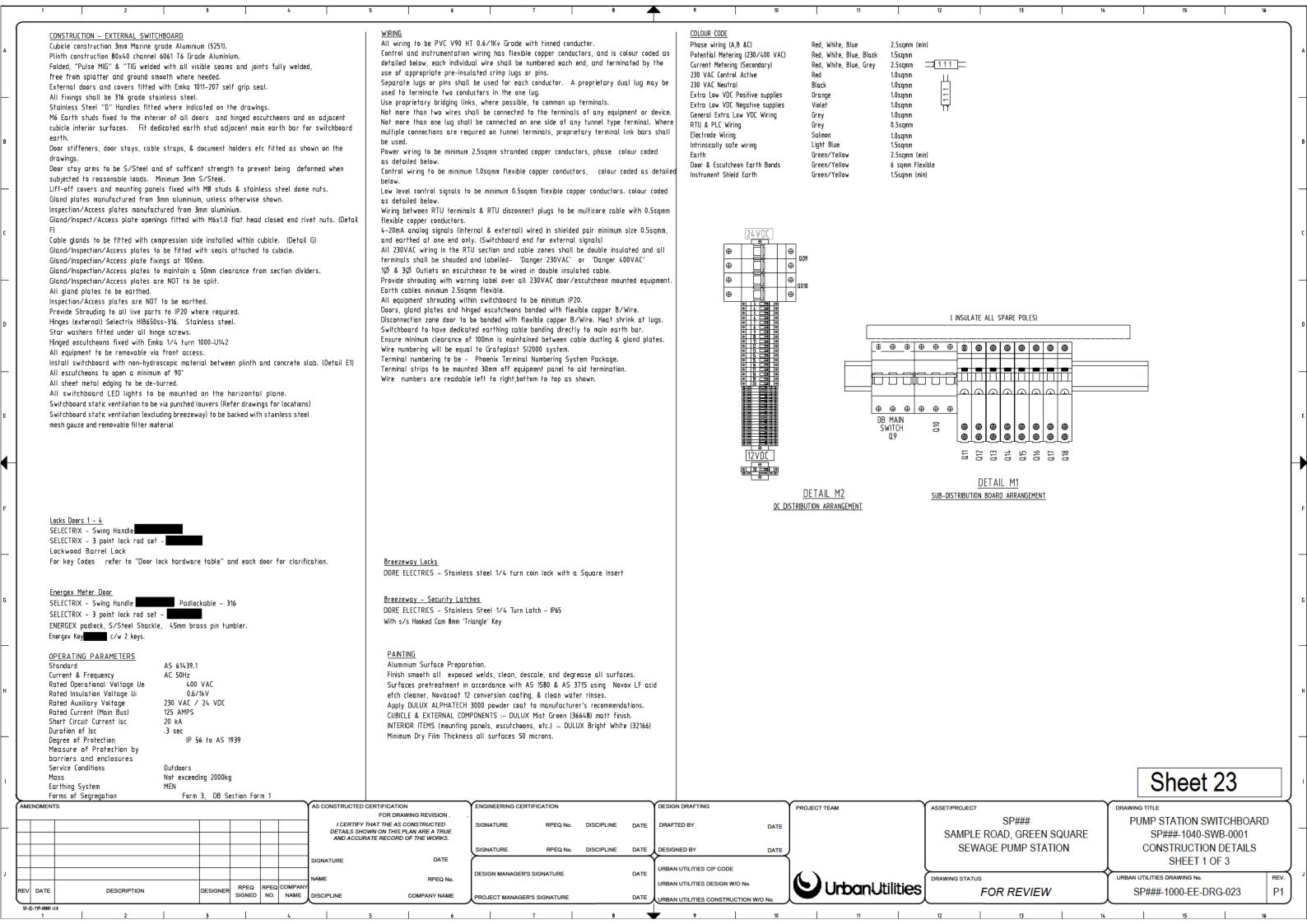


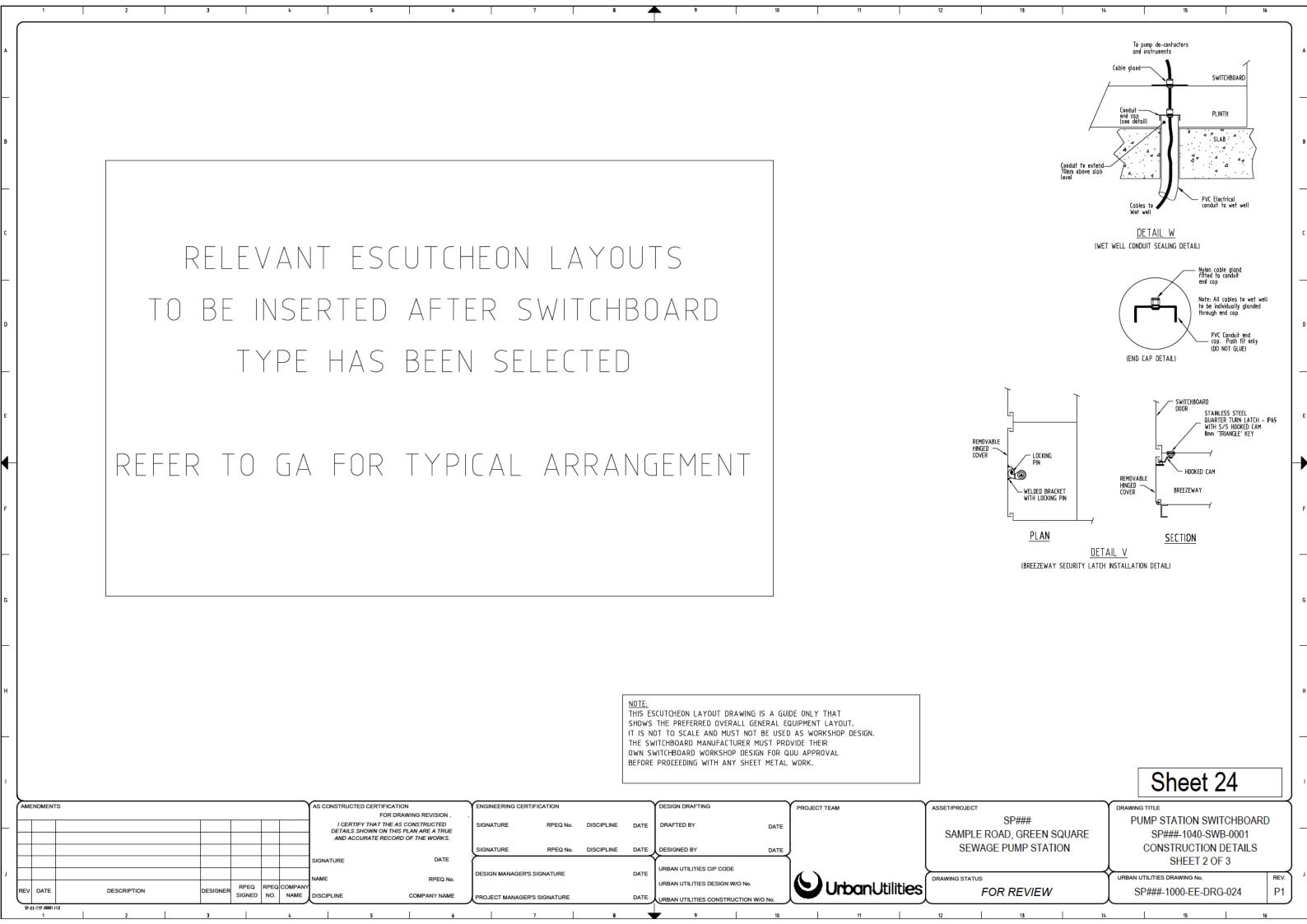


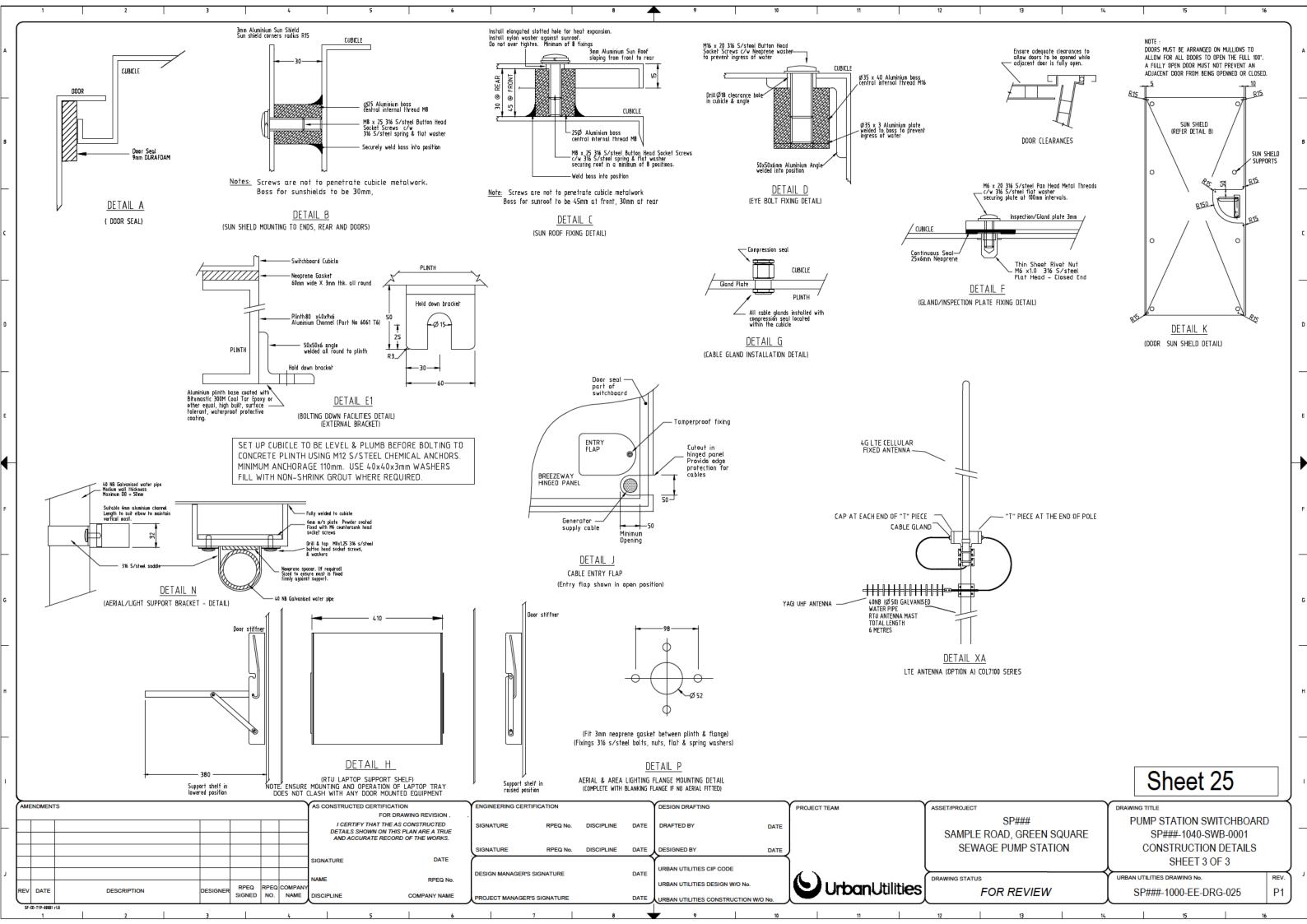
	2	3	4	5	6		7 8		9	10	11		12 13	14	15	16	
ITEM QT	DESCRIPTION	MANUFACTURER	CATALOGUE No	REMARKS	ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOGUE No	REMARKS	ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOGUE No	REMARKS	\neg
1 3	ACTIVE LINKS	CLIPSAL	B 65/7 (165A)		63	2	PUMP LINE CONTACTOR - K1 (24VDC CCAL)	SPRECHER & SCHUH	< <ca7-23e>></ca7-23e>	24VDC EOIL							
2 1	MANUAL TRANSFER SWITCHC/w BACKPLATE + MECH I/LOC	K TERASAKI	INTERLOCK LINK T2ML25RA	Q2 - Set Ir=t.b.a. Char=t.b.a.	64	2	SOFT STARTER RUNNING RELAY - K2	IDEC	RH18-UL0-DC24V	+ SH18-05							
3	MAIN SWITCHES: Q2- S250PE 3 125 Q3- S250PE 4 125	c/w SHUNT TRIPS	Q2 - c/w AUX CONTACTS	Q3 - Set Ir=t.b.a. Char=t.b.a.	65	2	STARTER FAULT RELAY - K3	IDEC	RH3B-ULD-DC24V	+ SH3B-05	132						
4 1	Q4 PUMP 1 CIRCUIT BREAKER +T2HS Handle	TERASAKI	<<\$125GJ/20>>	Set Ir=t.b.a. Im=t.b.a.	66	2	PUMP EM. STOP RELAY - K4	IDEC	RH3B-ULD-DC24V	+ SH3B-05	133	1	PRIMARY WET WELL LEVEL PROBE	VEGA - VEGAWELL52	WL52XXA4AMD1D01X	SET RANGE TO H⇒b.a.	
5 1	Q5 PUMP 2 CIRCUIT BREAKER +T2HS Handle	TERASAKI	< <s125gj 20="">></s125gj>	Set Ir=t.b.a. Im=t.b.a.	67	2	PUMP CONTROL ECT POWER ON RELAY - K5	IDEC	RH1B-ULD-DC24V	+ SH1B-05	134	1	PRIMARY WET WELL LEVEL ADJUSTMENT UNIT	VEGA - VEGADIS82	DIS82.IXHKIMACX		
					68	2	PUMP RUN RELAY - K6	IDEC	RH1B-ULD-DC24V	+ SH1B-05	427		OF LUCAY DODGE IN TO LUCAY TO	VEC - VEC - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	000 174 00 1 555 174 174 17 17 17	D.11155	
1 7 1	Q7 ENERGEX PHASE FAILURE (IRCUIT BREAKER	TERASAKI	DTCB15306C		69	<u> </u>	DIND DOTTETION DELAY ME	VVI FM	M. ICAGII	ALVIDS	137	1	DELIVERY PRESSURE TRANSMITTER TRICLOVE FITTING FOR VEGABARS2	VEGA VEGABAR52 VEGA	B82.IXARDAGGSHXKAMAX L=20m ADAPTOR 4	KANGL ≢.b.a.	\dashv
9 1	Q9 SUB-DISTRIBUTION BOARD CIRCUIT BREAKER	TIDACANI	DTC940244C	Fix Set Ir=<<16>> Im=<<10 (160A)>>	70	_	PUMP PROTECTION RELAY - K7 MOTOR OVER TEMPERATURE RELAY - K7A	XYLEM	MiniCASII	24VDC	139	1	CONTROL SYSTEM POWER SUPPLY 24VDC	POWERBOX	PB251A-24CM-CC-T-S		$-\parallel$
10 1	Q10 STATION MAINS PHASE FAILURE EIRCUIT BREAKER	TERASAKI TERASAKI	< <dtcb10316c>> DTCB10306ε</dtcb10316c>	10kA 3P 6A "C" curve	72	+	PUMP LEAKAGE ALARM RELAY - K7B	IDEC	RH2B-ULD-DC24V RH1B-ULD-DC24V	+ SH2B-05C + SH1B-05C	140	_	RADIO 24V/13.8VDC CONVERTER	POWERBOX	PBIH-2412.J-CC		
11 1	Q11 10A SOCKET OUTLET CIRCUIT BREAKER	TERASAKI	DSRCBH-10-30A	10kA 1P 10A 30mA RCB	73	_	PUMP RUN COMMAND RELAY - K20	IDEC	RH1B-ULD-DC24V	+ SH18-05	141		NADIO 2417 IS.OFDE CONTENTEN	TOWERDOX	PDII P2412/PCC		\dashv
12 1	Q12 RTU LAPTOP SOCKET OUTLET CROUIT BREAKER	TERASAKI	DSRCBH-10-30A	10kA 1P 10A 30mA RCD	74	+	PUMP FAULT RESET RELAY - K21	IDEC	RH2B-ULD-DC24V	+ SH2B-05	142	2	BATTERIES - INCLUDING SPILL TRAYS	YUASA	UXH50-12	c/w SLIDES.'UES DSCHMD 3	300MM1
13 1	Q13 GENERATOR AUXILLARY SUPPLY EIRCUIT BREAKER	TERASAKI	DSRŒH-10-30A	10kA 1P 10A 30mA RCD	75	+	PUMP EMERGENCY MODE INTERRUPT RELAY - K22	IDEC	RH1B-ULD-DC24V	+ SH1B-05	143	1	RADIO				\dashv
14 1	Q14 SPARE CIRCUIT BREAKER	TERASAKI	DSRCBH-6-30A	10kA 1P 6A 30mA RCD	76						144	1	RADIO ANTENNA			c/w N Series connecto	r
15 1	Q15 EM PUMP CNTRL & SURCHARGE IMMINENT CB	TERASAKI	DSREBH-6-30A	10kA 1P 6A 30mA RCD	77	2	PUMP START PUSHBUTTON - S1	SPRECHER & SCHUH	D7P-F3-PX10		145	1	RADIO COAX SURGE PROTECTION UNIT			Mounted on Din Rail	
16 1	Q16 RTU POWER SUPPLY CIRCUIT BREAKER	TERASAKI	DSRCBH-6-30A	10kA 1P 6A 30mA RCD	78	2	PUMP STOP PUSHBUTTON - S2	SPRECHER & SCHUH	D7P-F4-PX10		146	1	TELEMETRY UNIT - REFER SHT 9 FOR PARTS LIST			REFER TABLE 1 - SHT	10
17 1	Q17 SPARE CIRCUIT BREAKER	TERASAKI	DSRCBH-6-30A	10kA 1P 6A 30mA RED	79	2	PUMP EM/STOP PUSHBUTTON - S3	SPRECHER & SCHUH	D7P-MT34-PX01S	c/w D7-15YE112	147	1	48 MODEM				
18 1	Q18 SPARE CIRCUIT BREAKER	TERASAKI	DSRCBH-6-30A	10kA 1P 6A 30mA RCD	80	2	PUMP RESET PUSHBUTTON - S4	SPRECHER & SCHUH	D7P-F6-PX10	+ PX10	148	1	4& LTE CELLULAR ANTENNA				
					81	2	PUMP HOUR RUN METER - HRM	NHP	RQ4801080VDC	24 V D C	149	1	4G MODEM COAX SURGE PROTECTION UNIT			Mounted on Din Rail	.
					82	2	PUMP EMERGENCY START SWITCH & LIGHT - SS/H5	SPRECHER & SCHUH	D7P-LSM25 + D7-N3Y	+ D7-X10 (2), ENGRAVE 'OFF ON'	150	1	GRAPHIC DISPLAY				
						1					151		ETHERNET 8 PORT SWITCH				
					85	_	PUMP POWER SOCKET DUTLET + INCLINE SLEEVE		DS1 3114013972 + 51BA757				ANTENNA MAST c/w 20mm NYLON EABLE GLAND	SWBD BUILDER	SHEET 31	LENGTH = <<6>> MTR	S
					86	2	PUMP POWER INLET PLUG + HANBLE	MARECHAL	DS1 3118013972 + 311A013				TERNAL COAX CABLE (Radio/Router to Lightning Arrester)				$-\parallel$
						l .	CID CURCHARGE NAMED COME CO	WVIEW	6155 56	21.100	l 		EXTERNAL COAX CABLE (Lightning Arrester to Aerial)	DITLEE	N 303UC	Classical control of the	
					92		SIR - SURCHARGE IMMINENT LEVEL RELAY	XYLEM	SAFE-FS	24VDC	159		COAX PLUG (For CNT400 cable) U ELAMPS	PULSE R.F. INDUSTRIES	N-203HS ANDREWS - UNV	Straight cable plug cri	шР
\vdash					73	1	LR3- WET WELL HIGH LEVEL RELAY	XYLEM	MTR-5	24VDC	164.0	_	MINIATURE THERMAL CIRCUIT BREAKER	PHOENIX CONTACT	TCP 'x'A + UK6FSI/C	'x' = AMP Rating	·
					95						164.1	_	FUSED TERMINALS with LEO 24V INDICATION	PHOENIX CONTACT	PT4-HESI LED24 (5x20)	FUSES = M205	-
30 2	PUMP 230VAC CONTROL CIRCUIT BREAKER	TERASAKI	DTCB6104C	Q4-1, Q 5-1	73						164.2		THROUGH TERMINALS	PHOENIX CONTACT	PT 2.5	10525 = 11205	\dashv
31	Total Estimate Contract Statement	TENTOTIN	DICOUNT	u+ 1, u2 1							164.3	_	DISCONNECT TERMINALS	PHOENIX CONTACT	PT 2.5-MT		
32 3	24VDC CONTROL CIRCUIT BREAKER	TERASAKI	DT(B6206C	QD4, QD5, QD15	98	1	SURCHARGE IMMINENT DELAY TIMER - SIDT	SPRECHER & SCHUH	RZ7-FSA 4E U23	ON DELAY / INSTANTANEOUS	164.4	_	THROUGH TERMINALS	PHOENIX CONTACT	PTTB 1.5/S	(Double Level)	$\dashv \parallel$
33 1	BATTERY SHORT CCT PROTECTION ERCUIT BREAKER	TERASAKI	DTCB6210C	QD8	99	1	EMERGENCY PUMPING MODE TIMER - EMGDT	OMRON	H3CA-A (+ P2CF-11)	(+ Y92A-48B) OFF DELAY	164.5	_	GROUND TERMINALS (Green/Yellow)	PHOENIX CONTACT	PTTB 1.5/S -PE	(Double Level)	$\neg $
34 3	230VAC-24VDC PUMP CONTROL POWER SUPPLY	WEIDMULLER	8951340000	120W 5A/24VDC	100	1	EMERGENCY PUMPING MODE AUX RELAY - EMGDTA	IDEC	RH28-ULD-DC24V	+ SH2B-05	164.6		THROUGH TERMINALS	PHOENIX CONTACT	PT 1.5/S-3L	(Three Level)	\dashv
35 2	PS1 24VDC BATT & LOAD CIRCUIT BREAKERS	TERASAKI	DTEB6210C	QD9, QD10	101	1	EMERGENCY PUMPING MODE RELAY PUM - EMG1	IDEC	RH1B-ULD-DC24V	+ SH1B-05	164.7	Lot (GROUND TERMINALS (Green/Yellow)	PHOENIX CONTACT	PT 1.5/S -3PE	(Three Level)	
36 3	F1-3 - SURGE DIVERTER CIRCUIT FUSES	NHP	63AMP HRC	FUSES & HOLDERS	102	1	EMERGENEY PUMPING MODE TIMER PUMP2 - EMG2	SPRECHER & SCHUH	RZ7-FSA 3E U23	ON DELAY 0.05-60sec	164.8	Lot (GROUP MARKER CARRIER / PLUG-IN BRIDGE	PHOENIX CONTACT	UBE / FBS		
37 3	SURGE DIVERTER	ERITEE	TDS1100-2SR-277		103	1	MTS AUX RELAY : TS-N	IDEC	RH1B-ULD- DC24V	+ SH1B-05	164.9	Lot (COMPONENT CONNECTOR c/w RESISTOR	PHOENIX CONTACT	P-C0	+ DISCONNECT TERMINAL	BLOCK
38					104						164.10	2	TEST PLUG	PHOENIX CONTACT	PS-5		
39					105						164.11	Lot 1	COVER PROFILE (SHROUDING) + CARRIER PLATE	PHOENIX CONTACT	AP-2 + AP2-TU	AS REQUIRED	
40					106												
41 1	ENERGEX PHASE FAILURE RELAY - PFRE	CARLO GAVAZZI	DPB01CM48W4		107						169						
42 1	ENERGEX PHASE FAILURE AUX RELAY - PFREA	IDEC	RH4B-ULD-DC24V	+ SH4B-05	108						170	1	ENERGEX PADLOCK - 45mm brass pin tumbler	H.A. REED LOCKSMITHS	KEY No 325 & S/S Shackle	c/w 2 KEYS	—II '
43 1	STATION PHASE FAILURE RELAY - PFRS	CARLO GAVAZZI	DPB01CM48W4		109						472	Lab luis	ET MELL CONDUIT END CARE . A. NYLON CARLE CLANDS	UD DVC	TO SUIT CONDUITS	B.1.11.11	$-\parallel$
44	MAIN NEITEAL LINE . MAIN CASTULINE	CHOCAL	DDALMS DDALMS	+ B 65F (Neutral)	110								ET WELL CONDUIT END CAPS C/W NYLON CABLE GLANDS S/STEEL FITTINGS AS DETAILED FOR PRESSURE TX	HD PVE FITTINGS	TO SUIT EONDUITS	Detail 'W'	$ \parallel$
45-46 2 47-48 2	MAIN NEUTRAL LINK + MAIN EARTH LINK	CLIPSAL	BPAH12 + BPAHE12	+ B 65F (Neutral) + B 65F (Neutral)	111						<u> </u>		EARTH ROD CONNECTION BOXES	NESCO	STAINLESS STEEL ERB1 (if cased in slab)	Sheet 26 Quantity as Required	$ \parallel$
49 1	DIST. BD NEUTRAL LINK + DIST. BD EARTH LINK PROTECTED NEUTRAL LINK	CLIPSAL	B 65D30 BPAH12	+ B 65F (Neutral)	113						1/4	-	E I NOV CONTECTION DUNCO	nesto	PIT-03 (if direct in gnd)	account as usadoused	\dashv
50 1	INSTRUMENT EARTH LINK	CLIPSAL	L13/25A	INSULATED	114	1	SW/BD LIGHTING CONTROL RELAY - DZCR	IDEC	RH2B-ULD-DC24V	+ SH28-05	175	#	LINE TAPS - BONDING TO EARTHING ROD	(LIPSAL	BP26	Quantity as Required	$\dashv \mid$
					115		SW/BD LIGHTING CONTROL RELAY - SLCR	IDEC	RH2B-ULD-DC24V	+ SH2B-05	176		EARTHING RODS	COPPER ROD	19mm Dia. 3000mm Lth	Quantity as Required	 .
52 1	DISTRIBUTION BOARD 3 PHASE BUSBAR COMB	TERASAKI	ICL183	80A 18 POLE + BUSBAR END CAP	116				-								$\dashv \vdash$
53 1	1 PHASE SOCKET OUTLET 10A - X1	£LPSAL	15+90B (SHROUD)		117										T		$\exists \parallel$
54 1	LAPTOP SOCKET OUTLET 10A - X2	CUPSAL	25+449A+449AP		118	1	STATION LOCAL/REMOTE SWITCH - S10	KRAUS & NAIMER	CAD11-A720-600-FT2-F758	ENGRAVE 'LOCAL REMOTE'					Sheet	20	$\neg $
					119	1	ELECTRODES TEST RELAY - ETR	IDEC	RH4B-ULD-DC24V	+ SH4B-05					OH COL	20	
56 1	1 PHASE OUTLET - GENERATOR ANOLLARY POWER - X3	CUPSAL	56SD310 IP56		120												
57 1	3 PH N&E APPLIANCE INLET&PLUG -GENERATOR POWER - X4	MENNEKES	MEN3658 Plus MEN14212	c/w PROTECTIVE CAP 40787	121	1	WET WELL LEVEL INDICATOR	CROMPTON INSTRUMENTS	244-01KG-HG-IP-SR 4-20mA	0-100% ADJ RED POINTER							
58					122	2	BREEZEWAY DOOR PROXIMITY SWITCH	PEPPERL & FUCHS	NEB5-18GM40-Z0		187	: ? >>	SINGLE POINT PROBES	XYLEM	< ? > off - 020130FSP-Shield] .
59					123	5	SW/BD DOOR MICRO SWITCHES - SINGLE POLE	OMRON	Z-15GW2 55 B								
60 2	PUMP SOFT STARTER	DANFOSS MCDS	MCD6-00208 ↔ MODBUS TCP	136G7336 + 175G0130	124												
61 2	EXTERNAL KEYPAD KIT	DANFOSS	175G0187		125	4	SW/BO INTERNAL LEO LIGHTS	LUMIFA	LF1B-C3S-2THWW4	See Construction Notes Sht 23	191			60075-			
62					126		<u> </u>				192	1	CORROSION INHIBITOR	CORTEC	VPCI-110 OR 111	FROM AP CONTROLS	
AMENDMEN	TS		AS CONS	TRUCTED CERTIFICATION		YEN	NGINEERING CERTIFICATION	DESIGN D	DRAFTING	PROJECT TEAM			ASSET/PROJECT		PRAWING TITLE		\dashv
				FOR DRAWING REVIS									SP###	[]	PUMP STATION S	WITCHROARD	
$\overline{}$			DE	I CERTIFY THAT THE AS CONSTRUCT ETAILS SHOWN ON THIS PLAN ARE A	TRUE	SI	GNATURE RPEQ No. DISCIPLINE	DATE DRAFTED	O BY	DATE			SAMPLE ROAD, GREEN S	SOLIADE	SP###-1040-S		
			A	IND ACCURATE RECORD OF THE WO	RKS.								SEWAGE PUMP STAT	I	EQUIPMENT S		
						(SI	GNATURE RPEQ No. DISCIPLINE	DATE DESIGNED	DBY	DATE			SEWAGE PUMP STATI	ION	EQUIPMENT 5	OUEDOLE	
			0101477	DE N	ATE	≻		$\overline{}$		1			•				
			SIGNATUI	RE D	ATE			URBAN UT	TILITIES CIP CODE								
		Deco	NAME		ATE	DE	SIGN MANAGER'S SIGNATURE	DATE	TILITIES CIP CODE	(<u>(</u>),,,,,,,	ani u	::::::::::::::::::::::::::::::::::::::	DRAWING STATUS		JRBAN UTILITIES DRAWING No.		REV.
REV DATE	DESCRIPTION E		RPEQ COMPANY	RPE	EQ No.			DATE URBAN UT	TILITIES DESIGN W/O No.	Unbo	an Ut	ilitie	DRAWING STATUS FOR REVIEW		URBAN UTILITIES DRAWING No. SP###-1000-EE-D		REV.
REV DATE			RPEQ COMPANY	RPE	EQ No.		SIGN MANAGER'S SIGNATURE	DATE URBAN UT			anUt	iliti€	DRAWING STATUS FOR REVIEW 12 13	14			

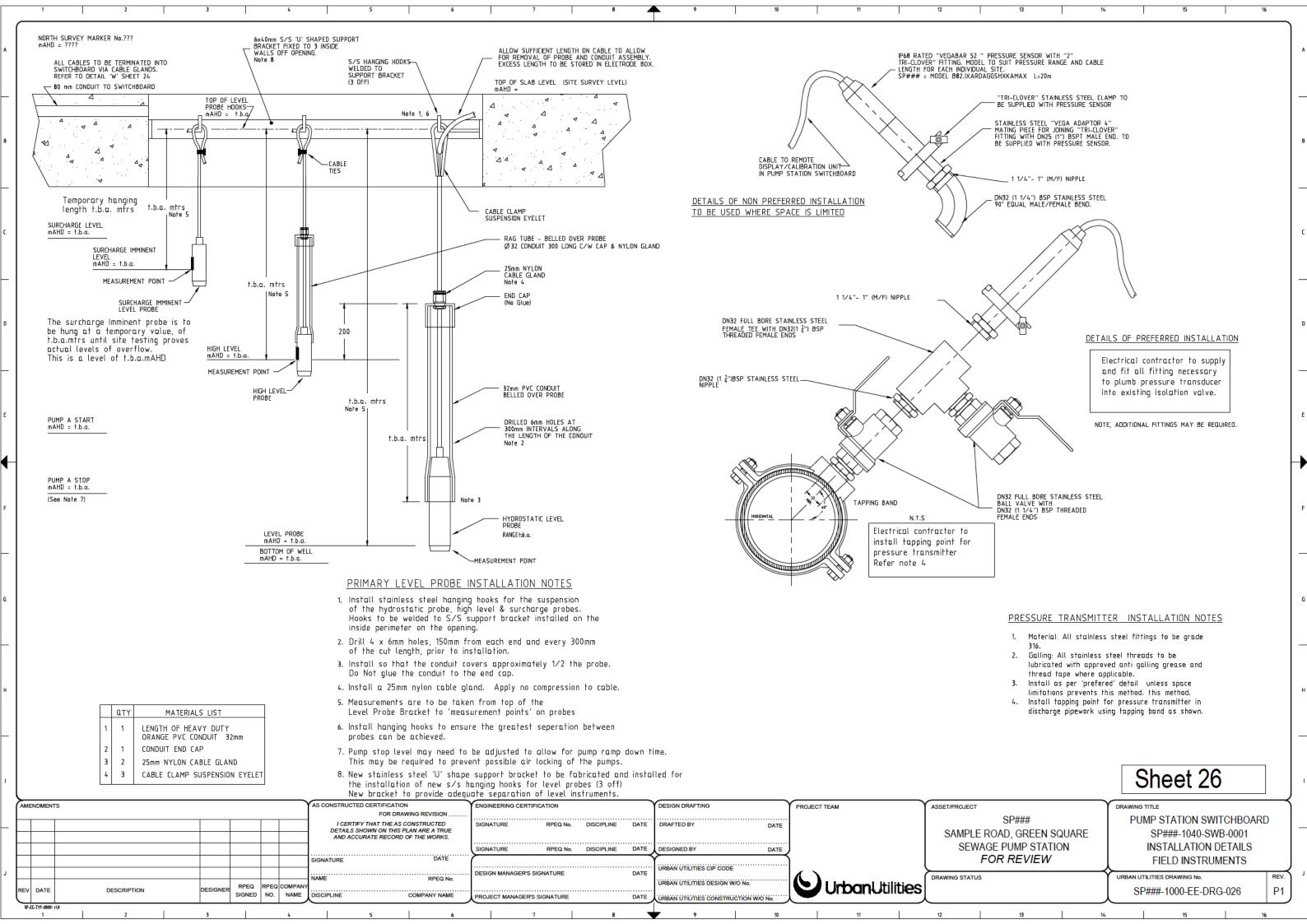


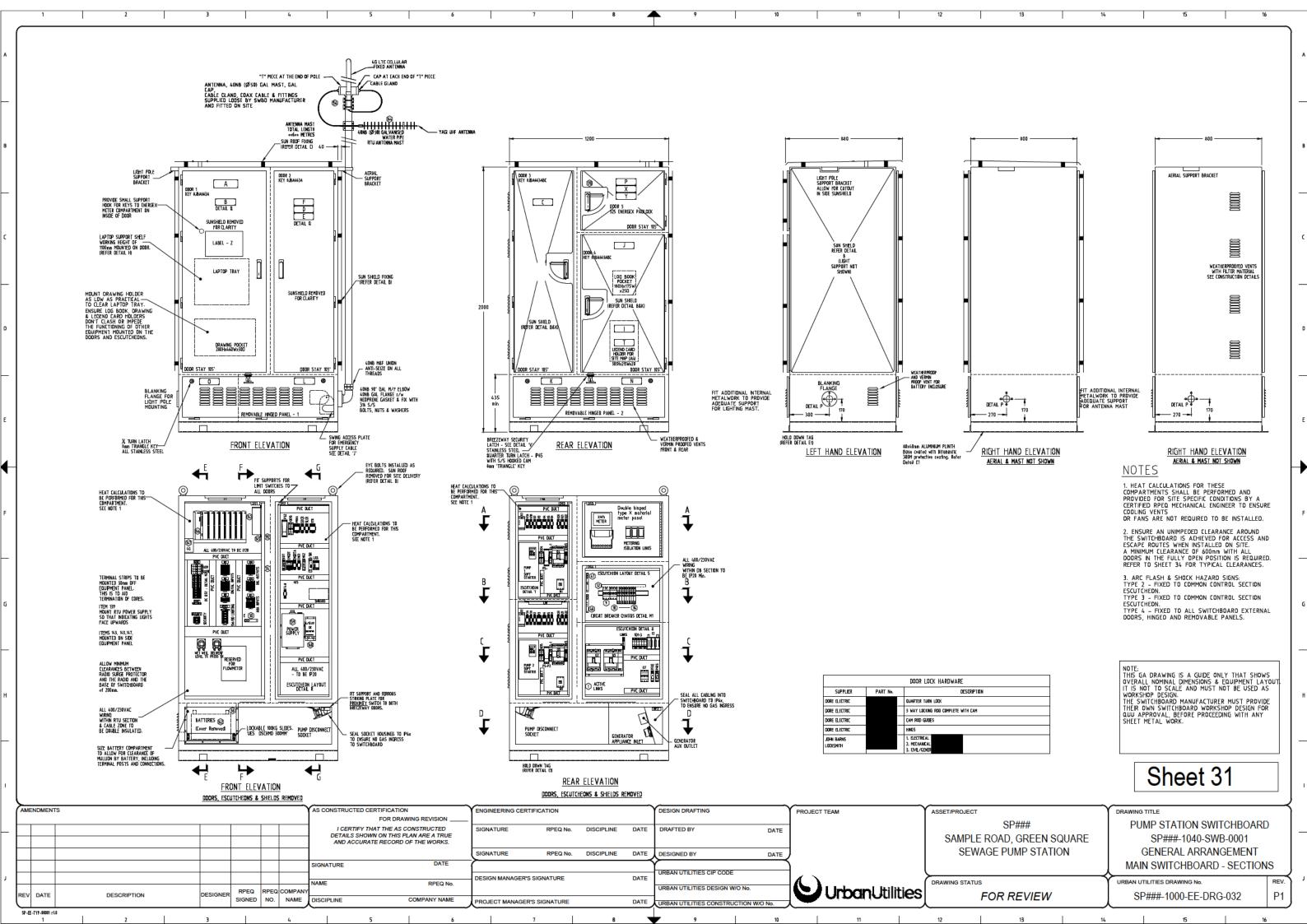
1	2	3	4	5		6	7	8	9	10		11		12	13	14		15	1	16
ITEM #	DESCRIPTION - INTERNAL LABEL	LABEL 1	LABEL 2 (IF NECESSARY)	TEXT HEIGHT	MATERIAL / COLOUR	ITEM #	DESCRIPTION - INTERNAL LABEL	LABEL 1	LABEL 2 (IF NECESSARY)	TEXT HEIGHT	MATERIAL / COLOUR	ITEM #	DESC	RIPTION - INTERNAL LABEL	LABEL 1	LABEL 2 (IF)	NECESSARY)	TEXT HEIGHT	MATERIAL / COLOUR	$\overline{}$
01	active links	ACTIVE LINKS		10mm	ABS PLASTIC W/B	70	PUMP MOTOR PROTECTION RELAY	1K7	2K7	4mm	ABS PLASTIC W/B									
02	ENERGEX SUPPLY (Note: Mount Additional Warning Label - Iten 208)	NORMAL SUPPLY MAIN SWITTH 125A	(Mount Internal) 02	10mn 4mn	ABS PLASTIC B/W	71	PUMP MOTOR PROTECTION RELAY	1K7A	2K7A	4mm	ABS PLASTIC W/B									'
03	GENERATOR SUPPLY	GENERATOR SUPPLY MAIN SWITCH 125A PUMP No1	(Mount Internal)	10mn 4mn	ABS PLASTIC B/W	72	PUMP MOTOR PROTECTION RELAY	1K7B	2K7B	4mm	ABS PLASTIC W/B ABS PLASTIC				24VDC POWER	DIGITAL INF	NITÉ.	/	ARC DI ACTIC	
04	PUMP No1 CIRCUIT BREAKER	< ? >A PUMP No2	(Mount Internal) Q4 (Mount Internal)	10mn 4mn 10mn	ABS PLASTIC W/B ABS PLASTIC	73	PUMP RUN COMMAND RELAY	1K20	2K20	4mm	W/B ABS PLASTIC		TERMINAL H		DISTRIBUTION DIGITAL INPUTS	DI 1 RO	52	4mm 4mm 4mm	ABS PLASTIC W/B ABS PLASTIC	
05	PUMP No2 (IRCUIT BREAKER	? >A ENERGEX PHASE FAILURE RELAY	Q5 FED FROM LINE SIDE	4mn 4mn	W/B ABS PLASTIC	74	PUMP FAULT RESET RELAY	1K21	2K21	4mm	W/B ABS PLASTIC		TERMINAL I		DI 2 ROS3 DIGITAL DUTPUTS	DI 3 RO	154	4mm 4mm	W/B ABS PLASTIC	-
07	PHASE FAILURE CRCUIT BREAKER	07	OF MAIN SWITCH	4mn	W/B	75	PUMP EMERGENCY MODE INTERRUPT RELAY	1K22	2K22	4mm	W/B		TERMINAL I		DO 1 ROS6 ANALOG NPUTS	DO 2 RO ANALOG OUT	IS7	4mm 4mm	W/B ABS PLASTIC	
09	SUB-DISTRIBUTION BOARD (B	SUB-DISTRIBUTION BOARD	_	8mm	ABS PLASTIC	77	PUMP START PUSHBUTTON	START	START	4mm	ABS PLASTIC		TERMINAL I	ILAUEK	AI 1 R058	AD 1 RO	058	4mm	W/B	
10	PHASE FAILURE CRCUIT BREAKER	MAIN SWITCH STATION PHASE FAILURE RELAY		4mn 4mn	ABS PLASTIC	78	PUMP STOP PUSHBUTTON	STOP	STOP	4mm	ABS PLASTIC		HEADER I A	BEL (Incomer Section)	MEN BEHIND			6mm	ABS PLASTIC	F
11	1 PHASE 10A OUTLET CIRCUIT BREAKER	1Ø 10A SOCKET OUTLET		4mn 4mn	ABS PLASTIC	79	PUMP EM.STOP PUSHBUTTON	(use label supplied with P/Buthor		7	W/B Y/B			BEL (Over Terminals 600-613)	LEVEL TX AND LEVEL PROBES			4mm	ABS PLASTIC	
12	RTU LAPTOP CIRCUIT BREAKER	RTU LAPTOP SOCKET OUTLET 212	Mounted On DB Escutcheon	4mn 4mn 4mn	ABS PLASTIC	80	PUMP RESET PUSHBUTTON	FAULT RESET	FAULT RESET	4mm	ABS PLASTIC			BEL (Over Shrouded Terminals)	WARNING 230VAC			4mm 4mm 4mm	ABS PLASTIC R/W	
13	GENERATOR ANGILLARY SUPPLY CB	SENERATOR ANCILLARY SUPPLY	Escurcheon	4mn 4mn	ABS PLASTIC	81	PUMP HOURS RUN METER	HOURS RUN	HOURS RUN	4mm	ABS PLASTIC	199	STATION (1	ASS LABEL (On Escutcheon)	A CLASS STATION (Rerfer Esculcheon Lay	yout Detail)	15mm 10mm	ABS PLASTIC	
14	SPARE CREUIT BREAKER	SPARE D14		4mn 4mn	ABS PLASTIC	82	PUMP EMERGENCY START SWITCH	PUMP 1 EMERGENCY START	PUMP 2 EMERGENCY START	4mm 4mm	ABS PLASTIC W/B	202	GENERATOR	MEN WARNING	GENERATOR MEN MUST BE REMOVED BEFORE CONNECTION		ent Generator locket)	6mm 6mm	ABS PLASTIC W/B	
15	EM PUMP CONTROL & SIR CIRCUIT BREAKER	EM PUMPING CCT & SIR 0.15		4mn 4mn	ABS PLASTIC W/B	92	SURCHARGE IMMINENT LEVEL RELAY	WET WELL SURCHARGE IMMINENT – SIR		4mm 4mm	ABS PLASTIC W/B									
16	RTU POWER SUPPLY CIRCUIT BREAKER	RTU POWER SUPPLY Q16		4mn 4mn	ABS PLASTIC W/B	93	WET WELL HIGH LEVEL RELAY	WET WELL HIGH LEVEL - LR3		4mm 4mm	ABS PLASTIC W/B	203	GENERATOR	INLET SOCKET	CAUTION - TERMINALS LIVE WH IS ENERGISED FROM AN	THER EXTERNAL SOUR		4mm 4mm	ABS PLASTIC R/W	
17	SPARE CIRCUIT BREAKER	SPARE 0.17		4mn 4mn	ABS PLASTIC W/B										MAX LOAI) - 63A				,
18	SPARE CIRCUIT BREAKER	SPARE		4mn 4mn	ABS PLASTIC W/B	95														
												206	METER PAN	EL WARNING SIGN	/ DUPLICATE LABELS 'X' & 'Y')	/ MOUNT INSIDE ME ADJACENT ME		6nm	ABS PLASTIC W/B	
						-					ABS PLASTIC			H WARNING LABEL	WARNING: THIS BOARD MAY			6mm	ABS PLASTIC	-
						98	SURCHARGE IMMINENT ON DELAY TIMER	SIDT	+	4mm	W/B ABS PLASTIC	208	main switche		ISOLATE BOTH NORMAL SUPPL	Y CB AND GENERAT	OR SUPPLY		R/W	
						99	EMERGENCY PUMPING MODE OFF DELAY TIMER	EMGDT EMGDTA	+	4mm	W/B ABS PLASTK	209		o be approximately 240 x 60 MATION LABEL	BEFORE WORKING OF SP### SAMPLE ROAD, GREEN SQUAR		D.	6mm	ABS PLASTIC	
						101	EMERG. PUMPING MODE OFF DELAY AUX RELAY EMERGENCY PUMPING MODE PUMP 1 RELAY	EMGDI A	+	4mm 4mm	W/B ABS PLASTIC	207		o be approximately 150 x 50	PUMPS ZONE ?? kW ?? IMPELLER ???	<u></u>			W/B	Ι,
						102	EMERGENCY PUMPING MODE PUMP 2 TIMER	EMG2		4mm 4mm	ABS PLASTIC									
						103	MTS AUX RELAY	TS-N	+	4mm	ABS PLASTIC			<u>E</u>	KTERNAL DOOR LABEL	LIST				
						104			1		W/B		LABEL		TEXT	TEXT HEIGHT	PAINT FILL LETTERING	QTY		
30	230VAC CONTROL CIRCUIT BREAKER	PUMP No1 Q4-1	PUMP No2	4mm	ABS PLASTIC W/B	105							A	SP###		25mm	Black	1		-
31		<u> </u>	W)=1	711111	W/ D	106								RTU		10mm	Black	1		
32	24VDC CONTROL CIRCUT BREAKER	PUMP No1 PU QD4 QD	UMP No2 EM PUMPING DS QD15	4mm 4mm	ABS PLASTIC W/B	107							, D	PUMP CONTROL	/ARNING	10mm 8mm	Black Black	1 2		
33	BATTERY CRCUIT BREAKER	BATTERY QD8		4mm 4mm	ABS PLASTIC W/B	108								THIS SITE IS MONITORED BY T THE OPERATOR BEFORE	<u>/arning</u> HE Control Room. Please inform ISOLATING PUMPS OR STATION		244			F
34	230VAC-24VDC POWER SUPPLY		S-P2 PS2	4mm 4mm	ABS PLASTIC W/B	109							E		THE STATION IS IN REMOTE DRE LEAVING SITE	8mm	Black	1		
35	PS1 24VDC BATT & LOAD CIRCUIT BREAKERS	QD9	PS1 24VDC DISTRIBUTION QD10	4nm 4nm	ABS PLASTIC W/B	110							F	COMMON CONTROL	THE CENTING SITE	10mm	Black	1		
36	SURGE DIVERTER FUSES	SURGE DIVERTER FUSES F1 - F3 63A	FED FROM LINE SIDE OF MAIN SWITCH FED FROM LINE SIDE	4mn 4mn	ABS PLASTIC W/B - R/W ABS PLASTIC	111														
37	SURGE DIVERTERS	SURGE DIVERTERS	OF MAIN SWITCH	4mn 4mn	W/B - R/W								<u> </u>							7
38						***					ABS PLASTIC			MAIN SWITCHES DISTRIBUTION BOARD		10mm 10mm	Black Black	1		
39						114	SWITCHBOARD LIGHTING CONTROL RELAY	DZCR		4mn	ABS PLASTIC W/B ABS PLASTIC W/B			PUMP No1 DE-CONTACTOR		10mm	Black	1		
40	ENERGEX PHASE FAILURE RELAY	ENERGEX MAINS	FED FROM LINE SIDE	4mn 4mn	ABS PLASTIC W/B - R/W	116	SWITCHBOARD LIGHTING CONTROL RELAY	SLCR		4mn	W/B		L	PUMP No2 DE-CONTACTOR		10mm	Black	1		F
42	ENERGEX PHASE FAILURE AUX RELAY	POWER FAIL - PFRE ENERGEX PFR	OF MAIN SWITCH	4mn	ABS PLASTIC	117					+									
43	STATION PHASE FAILURE RELAY	AUX RELAY - PFREA STATION MAINS		4mn 4mn 4mn	W/B - R/W ABS PLASTIC	118	STATION LOCAL/REMOTE SELECTOR SWITCH	STATION CONTROL MODE	(Label = Red with White Lettering)	4mm	ABS PLASTIC		_	GENERATOR CONNECTIONS		10mm	Black	1		
44		POWER FAIL - PFRS		400	W/B	119	ELECTRODES TEST RELAY	ETR		4mm	R/W ABS PLASTIC W/B			BATTERIES - 24VDC SUPPLY AUTHORITY METERING		10mm 10mm	Black Black	1		-
45-46	MAIN NEUTRAL & EARTH LINKS	MAIN NEUTRAL	MAIN EARTH	4mm	ABS PLASTIC W/B	120			1		m/ U		-	Remonth Retented		ignilli	GUCK.	+ -		
47-48	SUB-BOARD NEUTRAL & EARTH LINKS	NEUTRAL	EARTH	4mm	ABS PLASTIC W/B	121	WET WELL LEVEL INDICATOR	WET WELL LEVEL		4mm	ABS PLASTIC W/B									
49	PROTECTED NEUTRAL	PROTECTED NEUTRAL		4mm	ABS PLASTIC W/B															<u> </u>
50	INSTRUMENT EARTH LINK	INSTRUMENT EARTH		4mm	ABS PLASTIC W/B								Т	SURGE DIVERTERS		10mm	Black	1		"
54	LAPTOP SOCKET OUTLET	LAPTOP ONLY		4mm	ABS PLASTIC W/B								Y	Phone: 3856 717	9 (Butt up directly under Label	'X') 8mm	Black	1		
56	GENERATOR 230VAC CONNECTION SOCKET	GENERATOR ANCILLARY SUPPLY GENERATOR	(Mounted Adjacent Aux Outlet)	4mn 4mn	ABS PLASTIC W/B	132		DOIMADY WET MELL LEVEL		le-	ADC DI ACTIC		7	 	DETAIL ON SHEET 23	Sign size 280x190x2		1		
57	GENERATOR POWER CONNECTION SOCKET	GENERATOR CONNECTION	(Mounted Adjacent Connection Socket)	6mm 6mm	ABS PLASTIC W/B	134	WET WELL PRIMARY LEVEL ADJ. UNIT	PRIMARY WET WELL LEVEL (Located in Sw/Bd)	1	4mm 4mm	ABS PLASTIC W/B		AF		SIGNS - REFER DETAIL ON SHEE		screen printe	+		-
58	DIND CALL STREET	PUMP No1	PUMP No2	6mm	ABS PLASTIC	100	Applicate Administration	DELIVERY PRESSURE	-	4mm	ABS PLASTIC				316 GRADE STAINLESS STEEL.		6 STAINLESS	STEEL METAL	\dashv	
60	PUMP SOFT STARTER	101	201	4mn	W/B ABS PLASTIC	137	DELIVERY PRESSURE ADJ. UNIT	(Located in Sw/Bd) CONTROL SYSTEM 24VDC	+	4mm 4mm	W/B ABS PLASTIC		THRE							
61	PUMP SOFT STARTER KEYPAD	PUMP No1	PUMP No2	8mn	W/B	139	CONTROL SYS 230VAC/24VDC POWER SUPPLY RADIO 24V/13.8VDC CONVERTER	POWER SUPPLY 24/12 VDC	+	4mm 4mm	ABS PLASTIC			בובו ח י	<u>DETAIL Q</u> ABEL LIST		_		BEL 'X'	_ +
63	LINE CONTACTOR	PUMP 1	PUMP 2	4mn 4mn	ABS PLASTIC	141	NORM SALL INDIRE CONTENTS	CONVERTER - RADIO	+	4mm	W/B	LABEL		TEXT		IATERIAL - QTY	ı	THIS SITE IS I	WARNING CONTINUOUSLY MONITORED CT CONTROL ROOM	
64	SDFT STARTER RUNNING RELAY	1K1 1K2	2K1 2K2	4mn 4mm	ABS PLASTIC	141			+		+		IN FARTH CONOUC	TOR - DO NOT DISCONNECT (On		OLOUR 4		BEFORE (CT CONTROL ROOM DPENING METER DOOR DR TO LEAVING SITE.	
65	SOFT STARTER FAULT RELAY	1K3	2K3	4mm	ABS PLASTIC W/B	142	BATTERIES	BATTERIES 21Kg FACH	(Mount on battery compartment	4mm 4mm	ABS PLASTIC W/B	20 10	CHAIN CONDOC	DO HO! PINCONNEC! (MI	James Control Coccitodes Milli	- '	1	8mm 316		- I_
66	EM. STOP RELAY	1K4	2K4	4mm	ABS PLASTIC W/B	145	RADIO COAX SURGE PROTECTION	21Kg EACH RADIO SURGE PROTECTION	front panel)	4mm 4mm	ABS PLASTIC W/B						j	viali 310		_ _
67	PUMP POWER ON RELAY	1K5	2K5	4mm	ABS PLASTIC W/B	146	TELEMETRY UNIT	RTU		4mm	ABS PLASTIC W/B			-]			
68	PUMP RUN RELAY	1K6	2K6	4mm	ABS PLASTIC W/B	147	MODEM	MODEM		4mm	ABS PLASTIC W/B							\l	1 00	
69						148											⊣ \	onee	et 22	
ANITALITA			V	IOTED ST	FIGATION		VENCINEEDING OFFICE		ECICN DRAFFING		·			~						$= \downarrow$
AMENDMENTS			AS CONSTRU	UCTED CERTI F	FICATION OR DRAWING REVISI	ON, .	YENGINEERING CERTIFICATION	ľ	ESIGN DRAFTING		PROJECT TEAM			ASSET/PROJECT	CD###	DRA	AWING TITLE	TATION	OM/ITOURO AD	,
				ERTIFY THAT	THE AS CONSTRUCTE IN THIS PLAN ARE A T	ED	SIGNATURE RPEQ No.	DISCIPLINE DATE	PRAFTED BY	DATE				OALIB: E =	SP###	DE			SWITCHBOAR	ם –
					RECORD OF THE WOR										OAD, GREEN SQUA	KE			-SWB-0001	
						ATE	SIGNATURE RPEQ No.	DISCIPLINE DATE	ESIGNED BY	DATE	₹			SEWAG	E PUMP STATION		l	ABEL SC	HEDULE	
			SIGNATURE		DA	ATE	[Yu	RBAN UTILITIES CIP CODE)					<u>_</u>				J
+			NAME		RPE	Q No.	DESIGN MANAGER'S SIGNATURE	DATE	RBAN UTILITIES DESIGN W/O No.			ا ا	Helme	DRAWING STATUS		UR	BAN UTILITIES	DRAWING No		REV.
REV DATE	DESCRIPTION	DESIGNER RPEQ RPE SIGNED NO			COMPANY	NAME	PROJECT MANAGER'S SIGNATURE					pant	Itilities	F (OR REVIEW		SP###	-1000-EE-	-DRG-022	P1
SP-EE-TYP-00001 r1.0								- DATE A	RBAN UTILITIES CONSTRUCTION	W/O No.	<u> </u>		,							
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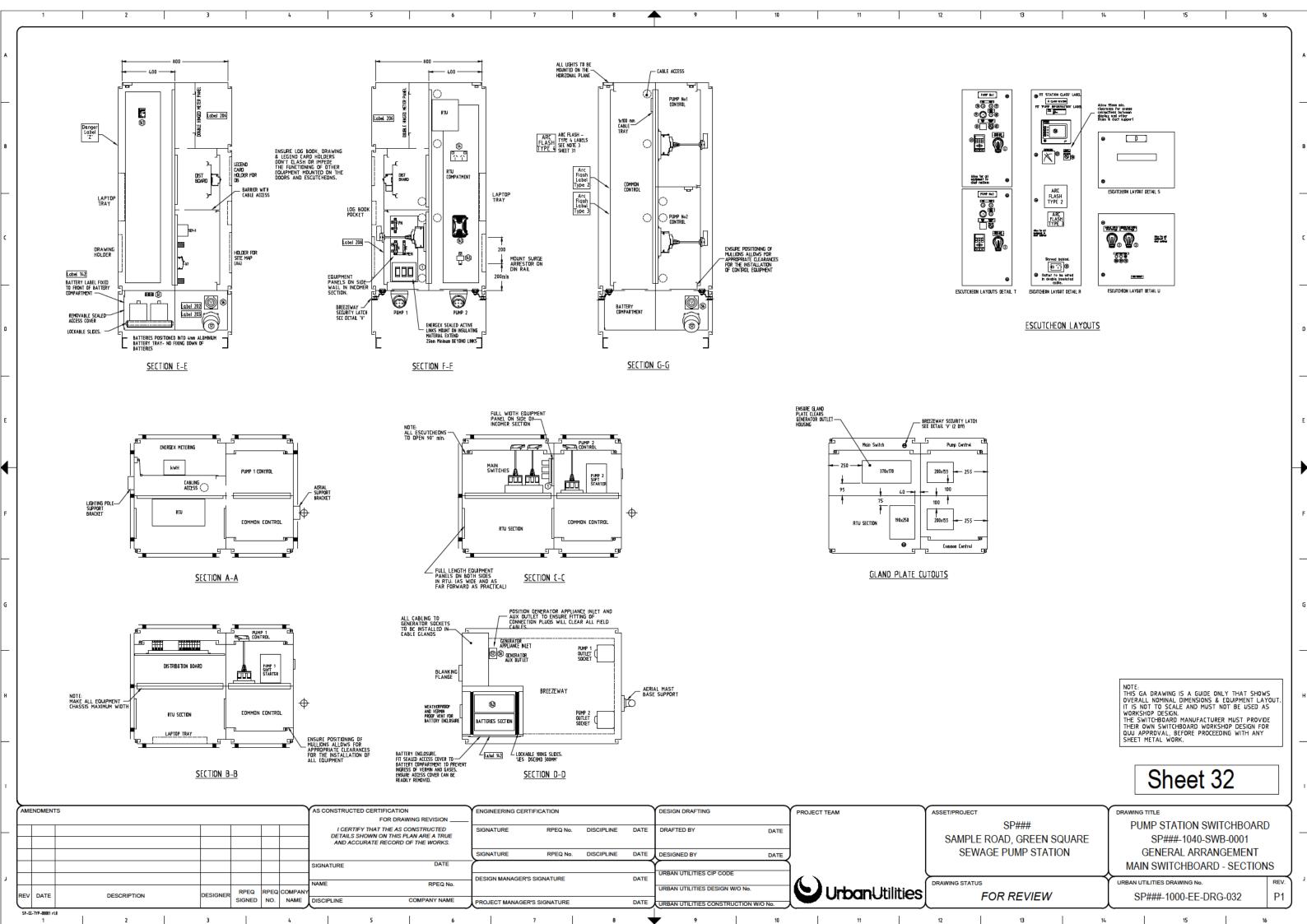


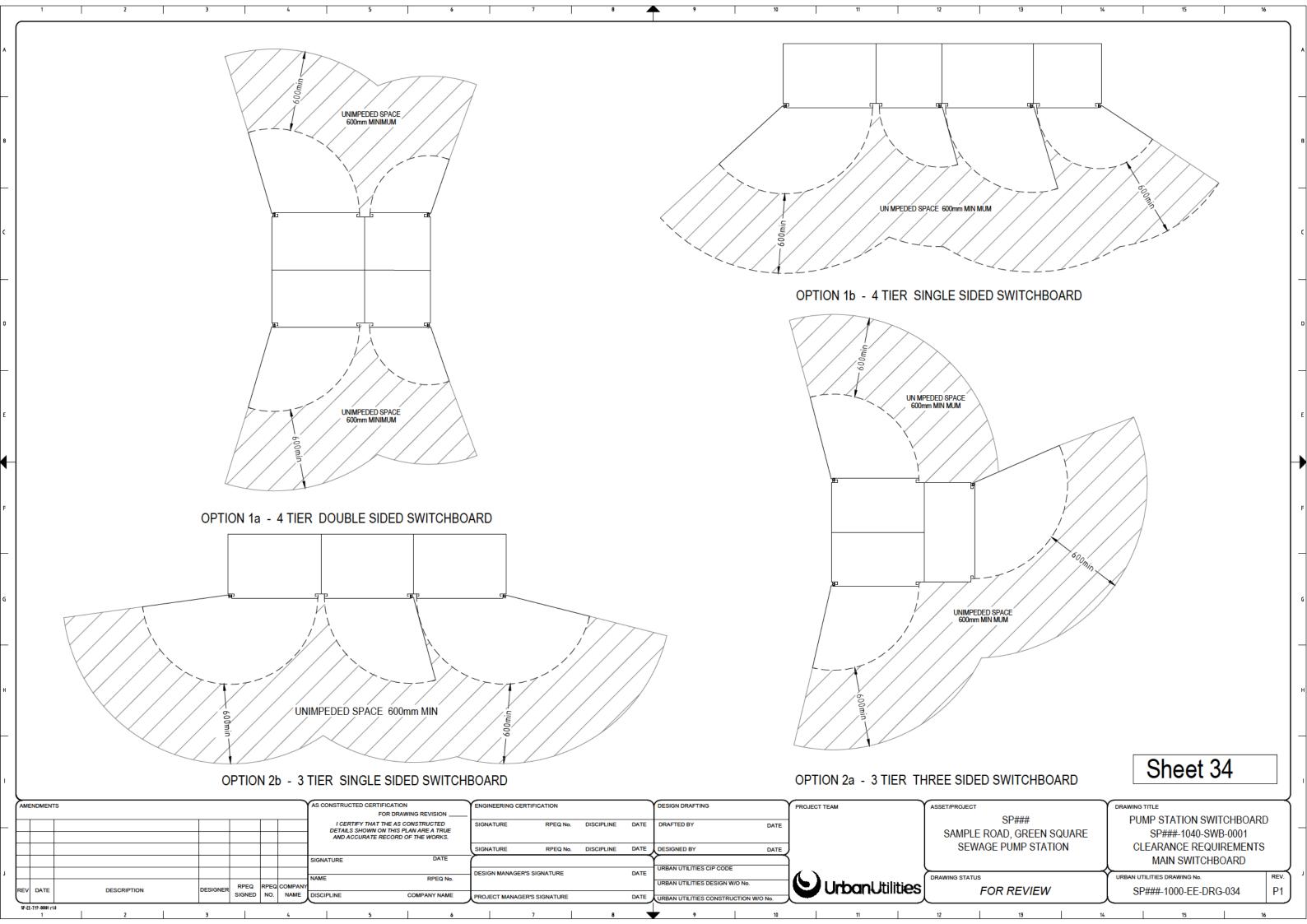




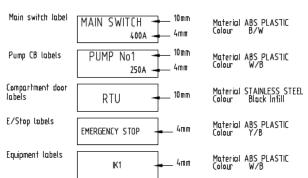








Internal labels W/B engraved ABS PLASTIC to label schedule. Warning labels R/W engraved ABS PLASTIC to label schedule. E/Stop labels Y/B engraved ABS PLASTIC to label schedule. First letter = Background colour, Second letter = Lettering colour.



Internal labels secured by M3 throme plated metal threads. CB's to be identified with individual labels as per label schedule. Labels obstructed by switchboard wiring are relocated to adjacent duct lid and secured by M3 nylon threads. Lid to be secured by a single cable tie at one corner. External switchboard labels to be 1mm thick 316 grade stainless steel secured by M3 316 stainless steel metal threads. All internal and external labels are to have bevelled edges.



LABEL Z SAFETY SIGN: 280x190x2mm + 4x4mm FIXING HOLES. ALUMINIUM POWDER COATED WHITE. 5 COLOR SCREEN PRINTED + ANTI-GRAFITTI LAMINATE.

Mounted on RTU compartment door as

shown on general arrangement. Sht 31



ARC FLASH & SHOCK HAZARD SIGN TYPE 1

Mounted on all compound gates or switchboard building access door for indoor installations. Refer to QUU standard drawing: 486/1/25-0005-001



ARC FLASH & SHOCK HAZARD SIGN TYPE 2

Mounted on common control compartment escutcheon as shown on general arrangement. Sht 32. Refer to QUU standard drawing: 486/1/25-0005-002



Common Control Compartment

ARC FLASH & SHOCK HAZARD SIGN TYPE 3

Mounted on common control compartment escutcheon as shown on general arrangement. Sht 32. Refer to QUU standard drawing: 486/1/25-0005-003

LABEL AF



For Arc Flash and PPE information. refer to label at Main Control O Compartment O

ARC FLASH & SHOCK HAZARD SIGN TYPE 4

Mounted on all switchboard external doors, hinged and removable panels as shown on general arrangement. Sht 31 & 32. Refer to QUU standard drawing: 486/1/25-0005-004

ARC FLASH & SHOCK HAZARD SIGNS

Sheet 35

PUMP STATION SWITCHBOARD

SP###-1040-SWB-0001

AMENDMENTS AS CONSTRUCTED CERTIFICATION ENGINEERING CERTIFICATION DESIGN DRAFTING PROJECT TEAM ASSET/PROJECT SP### I CERTIFY THAT THE AS CONSTRUCTED DETAILS SHOWN ON THIS PLAN ARE A TRUE AND ACCURATE RECORD OF THE WORKS. DRAFTED BY SIGNATURE RPEQ No. DISCIPLINE DATE DATE SAMPLE ROAD, GREEN SQUARE SEWAGE PUMP STATION ARC FLASH & SHOCK HAZARD LABELS DATE SIGNATURE RPEQ No. DISCIPLINE DESIGNED BY DATE DATE SIGNATURE URBAN UTILITIES CIP CODE DESIGN MANAGER'S SIGNATURE DRAWING STATUS NAME JRBAN UTILITIES DESIGN W/O No. **Urban**Utilities RPEQ RPEQ COMPA REV DATE FOR REVIEW DESCRIPTION SIGNED NAME NO. DISCIPLINE COMPANY NAME PROJECT MANAGER'S SIGNATURE DATE RBAN UTILITIES CONSTRUCTION W/O No

URBAN UTILITIES DRAWING No. REV.

P1 SP###-1000-EE-DRG-035