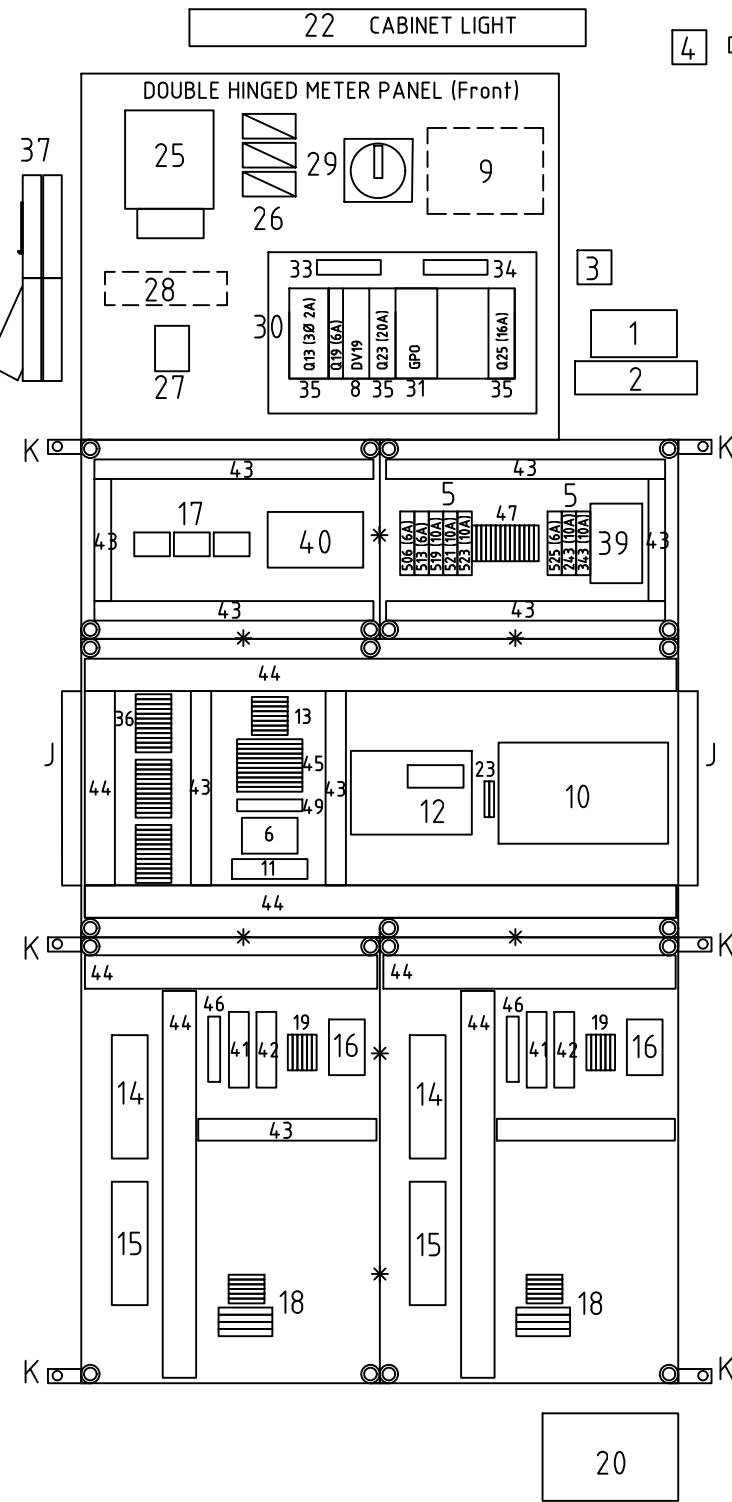


EQUIPMENT SCHEDULE

1	10A TELEMETRY POWER SUPPLY-TYPE RFI INDUSTRIES SME 240-12-10
2	TELEMETRY RADIO - TYPE SCNEIDER Q SERIES - QR450
3	TELEMETRY SURGE DIVERTER POLYPHASE TYPE IS - B50LN - C5
4	DOOR SWITCH - SCHNEIDER ZCP21, ZCY45, ZCPEP16, ZCE01
5	8x MOELLER PLS6 RCD/CIRCUIT BREAKERS RATINGS AS PER SCHEMATIC(S) SD-820/02, SD-820/03, & SD-820/05
6	MULTITRODE MTR-6 12VDC OVERFLOW TRODE RELAY
7	MAIN EARTH BAR - IPD Part No. EB06
8	CRITEC DINLINE SURGE FILTER - DSF-6A-275V
9	NOVARIS SDD3-100-275-A + 3 SCB1-3-80 NOVARIS CB + HAGER 4CC9 ENCLOSURE (BEHIND PANEL)
10	SCHNEIDER SCADA Pack RTU,TBU P357-EA55-AB00
11	PANASONIC (AFP0R-C14RS) PLC BACKUP CONTROLLER
12	ULTRASONIC - PULSAR BLACKBOX 130D110000XX-XOP + DB10 (TRANSDUCER)
13	TERMINALS FOR MODBUS CONNECTIONS + PROTECTIVE EARTH (TB6)
14	PUMP ISOLATOR + PROTECTION - SCHNEIDER TeSYS U - COMPONENTS: LU9APN21 (MOUNTING PLATE), GVAPP1 (ISOLATING SW BACK PLATE), LUCBXXBL (ELECTRONIC OVERLOAD (XX = AMP RATING, 32, 18, 12)), LULC033 (MODBUS COMMS UNIT), LUB32 (BASE)
15	SOLID STATE STARTERS AS PER KW RATING - TYPE SCHNEIDER ATS01N232QN SOFT START - SIZED TO PUMP MOTORS
16	HAND / AUTO SWITCH - TYPE MOELLER (KEY REMOVABLE IN AUTO ONLY) T0-3-15453/Z + S-T0 + FS19334 + VR-T0 + ZAV-T0 (X 5 EACH)
17	CURRENT TRANSFORMER-HAGER SRA00505 (50A/5A) OR SRA01005 (100A/5A)
18	TERMINALS FOR CONNECTION TO PUMP ELECTRICAL LEADS (TB1, TB2)
19	TERMINALS FOR CONNECTION TO P.M.P (TB8)
20	TELEMETRY BATTERY - TYPE PANASONIC LC - X1228AP
21	TELEMETRY AERIAL - MODEL NO: YB6-61, 450-480 MHz TO BE MOUNTED ON RISER BRACKET ABOVE CABINET
22	CABINET LIGHT - SAL - PART NO: SL9726/20TC/DP
23	TERMINALS FOR VSD PRESENT SPEED REF TB8 REF SD-820/05 NOTE 3
24	
25	SUPPLY AUTHORITY POLY PHASE METER
26	3 X SUPPLY AUTHORITY SERVICE FUSES - RHLF100 + HOLDERS - HSB30BWI
27	SERVICE NEUTRAL LINK
28	CONSUMERS NEUTRAL LINK (BEHIND PANEL) 'NA'
29	115A 4 POLE MAIN SW / GENERATOR CHANGE-OVER SW MOELLER CAM SW T5-4-82/3/E WITH SUB-P3 PADLOCKABLE HANDLE
30	18 POLE DISTRIBUTION CENTRE - EATON PE18ST
31	DIN MOUNT GPO 15A - HAGER SNO15DA
32	HMI - SCHNEIDER MAGELIS XBTGT-2930 (SEE NOTE 8)
33	MCC NEUTRAL LINK (INSIDE ENCLOSURE) 'NB'
34	MCC EARTH LINK (INSIDE ENCLOSURE)
35	Q13, Q19, Q29, Q35 RATINGS AS PER SCHEMATIC SD_820/01
36	ELV TERMINAL BLOCK - SCHNEIDER NYSTRV42X (x=COLOUR) (TB3,4,5)
37	CLIPSAL 56A1532LE-GY 5 PIN INLET SOCKET (TO 15kW) OR 56A15550LE-GY (16-22.5kW), 56E4VH-GY (MOUNTING BACK BOX), 56CB4NM-GY (4 POLE MODULE WITH PROTECTIVE MEMBRANE). Q24 RATING TO SUIT AS PER SD-820/01
38	ALARM LIGHT, TOBIN SYF 130-12A 12VDC AMBER STROBE LIGHT
39	12 - 24VDC CONVERTER GB60-1224
40	POWER MONITOR ZEPTO D6 PFA8611-18 (18-60VDC)
41	ATC SEAL FAILURE RELAY (ATC 78562 24VDC).
42	SCHNEIDER LT3-SA THERMISTOR RELAY
43	75 X 25MM SLOTTED DUCT - HAGER DNG 7502507030B
44	75 X 50MM SLOTTED DUCT - HAGER DNG 7505007030B
45	PHOENIX RELAY + BASE PH02966896 PLC-BSC, PH02961150 PLC-RSC 12VDC
46	OMRON G2R-2-SNDI 24VDC (S) RELAY + BASE
47	ELV TERMINAL BLOCK - SCHNEIDER NYSTRV42X (x=COLOUR) (TB7)
48	ACTIVE LINKS (X 3) - A165/7R
49	OMRON G2R-2-SNDI 12VDC (S) RELAY + BASE

MOELLER PARTS LIST

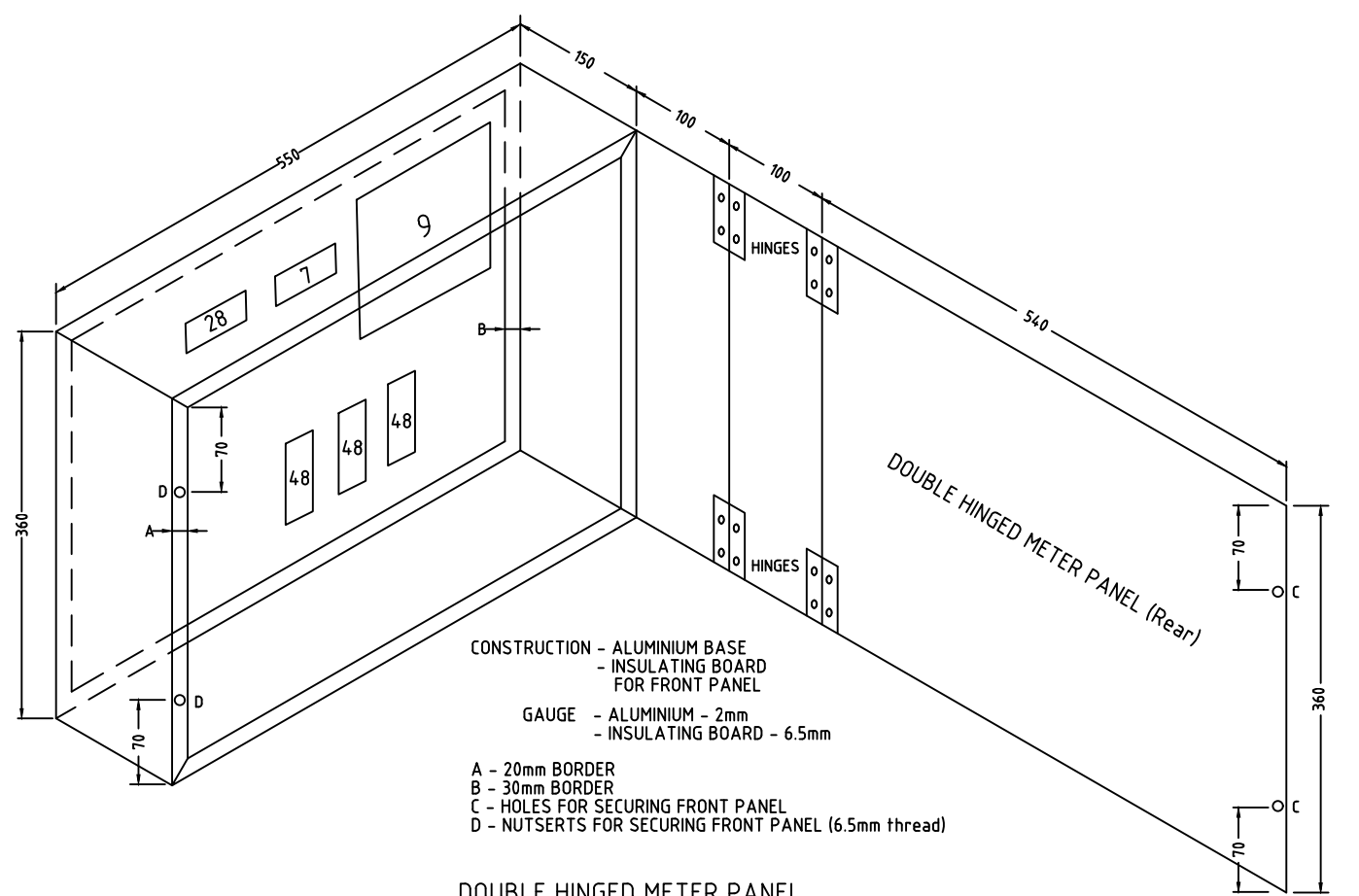
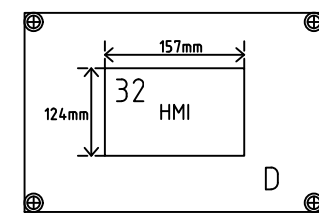
INDIVIDUAL ENCLOSURE BOXES	- 2xU-CI43E - 1xU-CI48E - 2xU-CI45E	A B C
TRANSPARENT COVERS	375 H x 250 W x 100 D - 2xD200-CI43 375 H x 750 W x 100 D - 1xD200-CI48 375 H x 500 W x 100 D - 2xD200-CI45	D E F
MOUNTING PLATES	- 2xM3-CI43 - 1xM3-CI48 - 2xM3-CI45	G H I
FLANGES	- 2xFL4-X	J
MOUNTING BKT/FIXING STRAPS (pack of 4)	- 2x BL-CI (-VA)	K
ASSEMBLY KITS (GASKETS)	- 7xKLOBS4-CI	L



CONTROL PANEL LAYOUT

4 DOOR SWITCH

- NOTE 1** 40mm CONDUIT TO BOTTOM OF CABINET TO CARRY MAINS & EARTH FROM METER PANEL
- NOTE 2** ON/OFF POSITION CONTACTS ARE ON TeSYS U SYSTEM ISOLATOR
- NOTE 3** BATTERY TO BE MOUNTED ON ALUMINIUM TRAY & HOLDER AT BASE OF CABINET
- NOTE 4** ALL CONDUITS TO BE CAPPED & CABLES TO BE GLANDED INSIDE CABINET TO PREVENT ODOUR TRANSFER FROM WELL
- NOTE 5** SIZE OF PENETRATIONS BETWEEN INDIVIDUAL ENCLOSURES SHALL BE KEPT TO A MINIMUM AND BE BUSHED OR GLANDED TO MAINTAIN THE INTEGRITY OF EACH MODULE.
- NOTE 6** ALL PANEL EQUIPMENT TO BE MOUNTED USING 3/16" SS PAN HEAD SCREWS. METER PANEL TO BE MOUNTED USING 1/4" SS PAN HEAD SCREWS. THE USE OF SELF TAPPING SCREWS IS EXPRESSLY PROHIBITED.
- NOTE 7** IT IS THE CONTRACTORS RESPONSIBILITY TO WIRE AND TEST POWER, COMMUNICATIONS AND AERIAL CABLING TO THE TELEMETRY RADIO.
- NOTE 8** HMI MOUNTED CENTRE OF ELV CIRCUIT BREAKER ENCLOSURE LID.



CONSTRUCTION - ALUMINIUM BASE
- INSULATING BOARD FOR FRONT PANEL

GUAGE - ALUMINIUM - 2mm
- INSULATING BOARD - 6.5mm

A - 20mm BORDER
B - 30mm BORDER
C - HOLES FOR SECURING FRONT PANEL
D - NUTS FOR SECURING FRONT PANEL (6.5mm thread)

DOUBLE HINGED METER PANEL

ISSUE	AMENDMENT DETAILS	Drawn	Checked	Approved	Date
00	ORIGINAL ISSUE			D.F	3.8.12
01	AMENDED ISSUE RELEASED FOR PUBLICATION	E.K	P.B	D.F	13.08.13
02	AMENDED PART NUMBERS FOR TeSYSU SYSTEMS	E.K	P.B	J.G	03.03.14
03	AMENDED PART NUMBERS & GA LAYOUT	E.K	P.B	J.G	27.04.15
04	AMENDED PART NUMBERS & GA LAYOUT	C.N	P.B	J.G	23.08.18
05	AMENDED PART NUMBERS, GA LAYOUT & SHEET NAME	P.B	D.R	J.G	20.08.20

ELECTRICAL UNIT

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DESIGNED:	
DRAWN:	
APPROVED:	
SCALE	NTS
ACAD FILE No.:	

PROJECT:	SEWAGE PUMP STATIONS ELECTRICAL STANDARD DRAWINGS
PLAN TITLE:	SWITCHBOARD GA & EQUIPMENT LIST - SINGLE DOOR <15.5kW (ATS01)

DRAWING NUMBER: SD-820/13	
SHEET	13 OF 19
REV	05
DATE	20/08/2020