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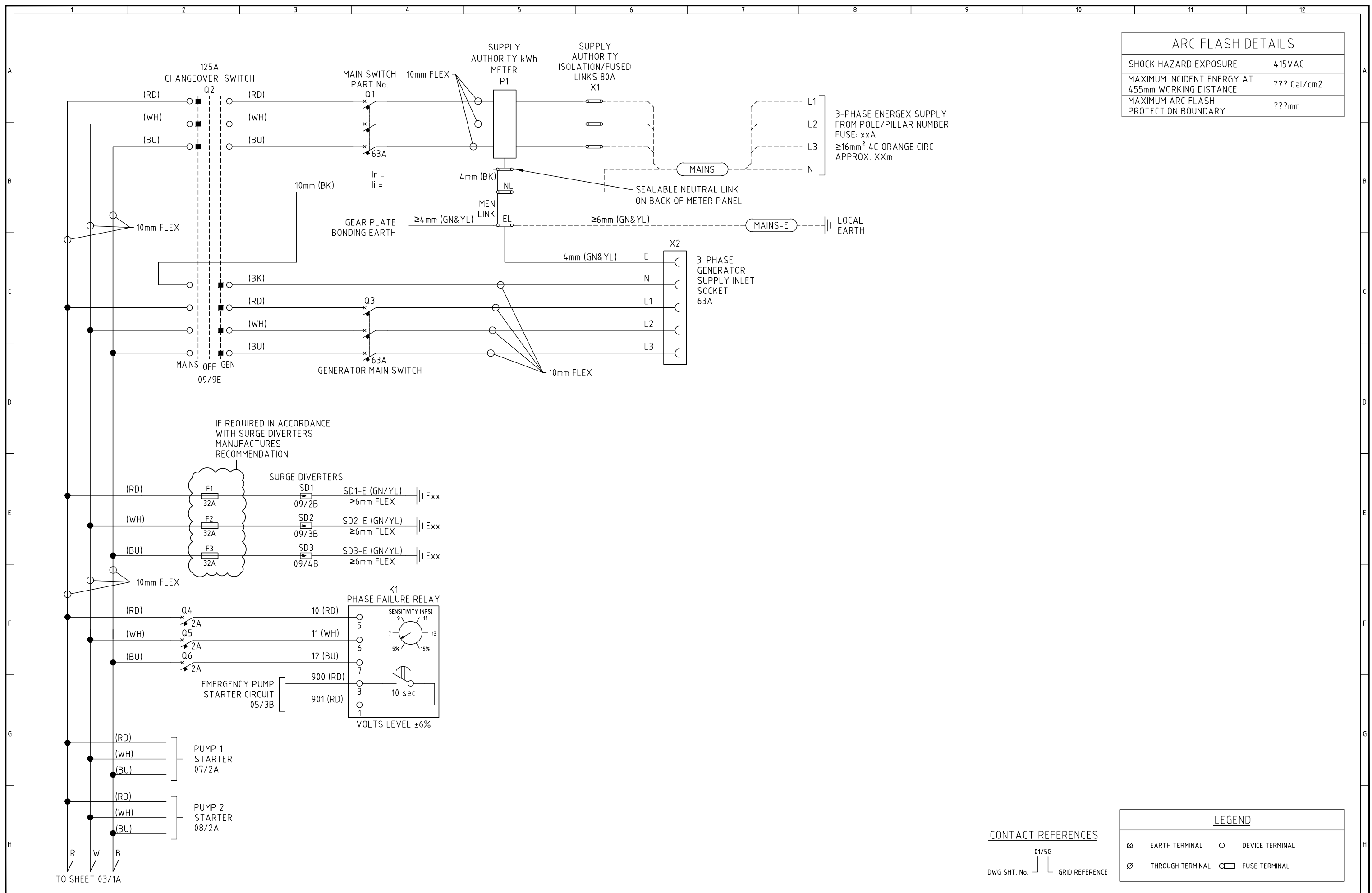
11

12

SEWAGE PUMPING STATION
STANDARD DRAWINGS
FOR 0.0 - 6.0kW COMPACT
DIRECT ON LINE START STATION
SCADA ID:

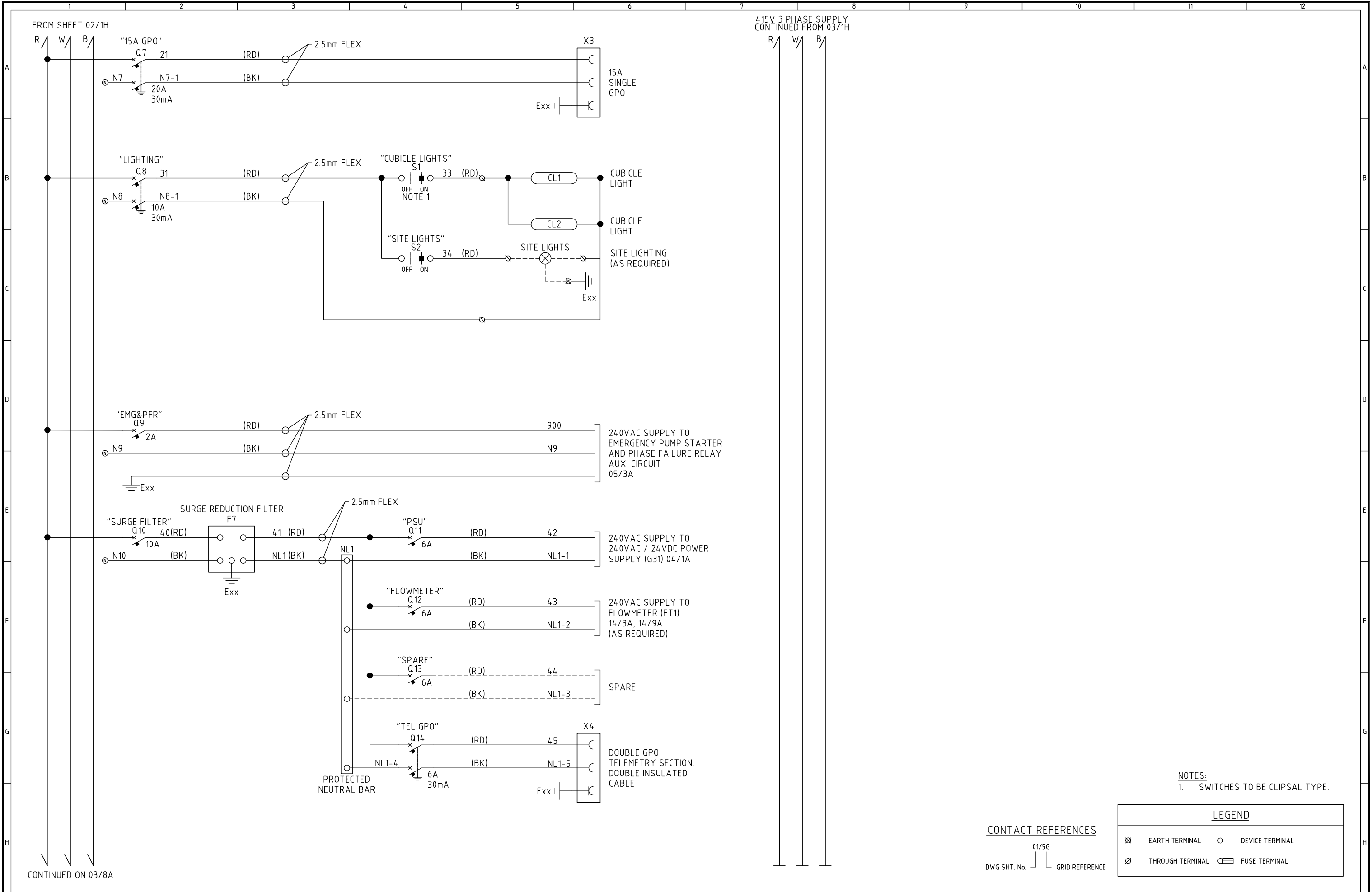
DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	REVISION
UWDSTD-E-DR-8001-01	TITLE AND INDEX SHEET	0
UWDSTD-E-DR-8001-02	INCOMING POWER SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-03	240VAC POWER SUPPLIES & DISTRIBUTION SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-04	24VDC POWER SUPPLIES SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-05	EMERGENCY PUMP STARTER & OVERFLOW CIRCUIT SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-06	COMMON CONTROL CIRCUIT SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-07	PUMP 1 POWER AND CONTROL SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-08	PUMP 2 POWER AND CONTROL SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-09	SCADAPACK DIGITAL INPUT SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-10	SCADAPACK DIGITAL I/O SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-11	SCADAPACK ANALOGUE INPUT (LOWER BOARD) SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-12	SCADAPACK ANALOGUE INPUT (UPPER BOARD) SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-13	SCADAPACK COMMUNICATIONS SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-14	PUMP STATION INSTRUMENTATION SCHEMATIC DIAGRAM	0
UWDSTD-E-DR-8001-15	EQUIPMENT SCHEDULE	0
UWDSTD-E-DR-8001-16	CABLE SCHEDULE	0
UWDSTD-E-DR-8001-17	TERMINAL LAYOUT	0
UWDSTD-E-DR-8001-20	ALTERNATE EQUIPMENT	0
UWDSTD-E-DR-8001-30	ELECTRICAL SWITCHBOARD - GENERAL ARRANGEMENT Shf 1 of 2	0
UWDSTD-E-DR-8001-31	ELECTRICAL SWITCHBOARD - GENERAL ARRANGEMENT Shf 2 of 2	0
UWDSTD-E-DR-8001-50	SITE PLAN	0

[illegible]



ARC FLASH DETAILS	
SHOCK HAZARD EXPOSURE	415VAC
MAXIMUM INCIDENT ENERGY AT 455mm WORKING DISTANCE	??? Cal/cm2
MAXIMUM ARC FLASH PROTECTION BOUNDARY	???mm

LEGEND			
	EARTH TERMINAL		DEVICE TERMINAL
	THROUGH TERMINAL		FUSE TERMINAL



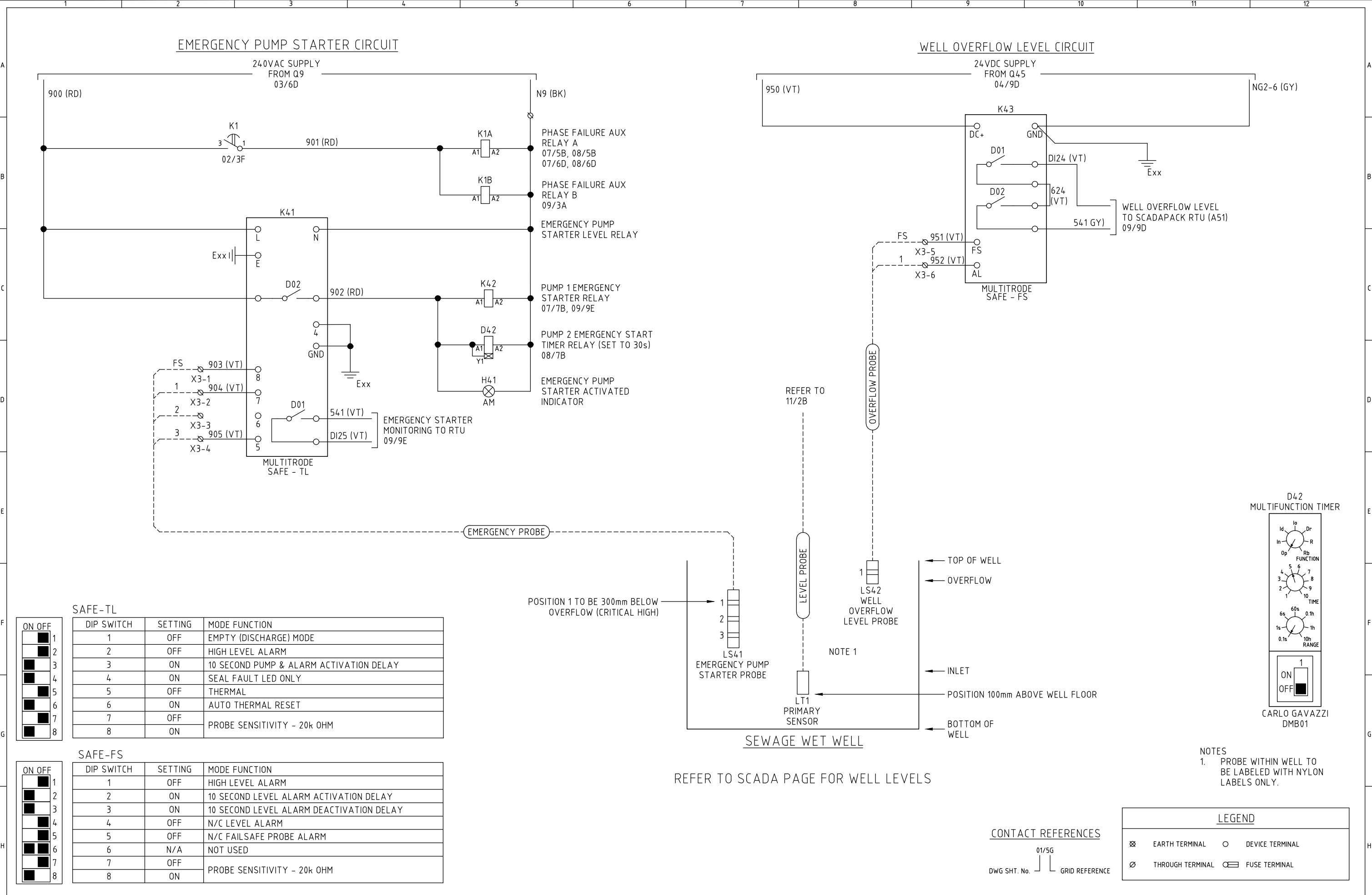
NOTES:
1. SWITCHES TO BE CLIPSAL TYPE.

CONTACT REFERENCES

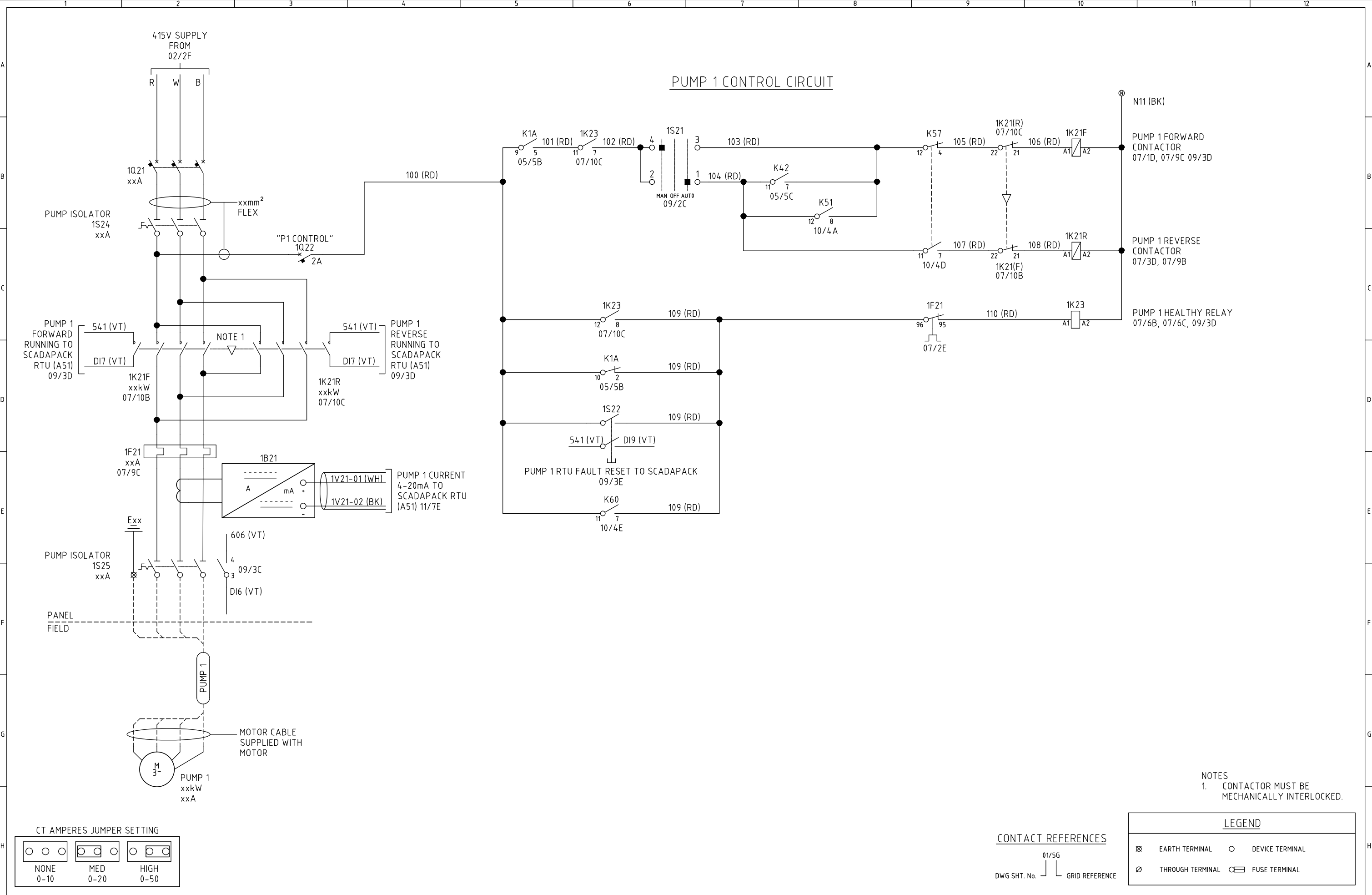
DWG SHT. No. 01/5G GRID REFERENCE

LEGEND

- ⊗ EARTH TERMINAL
- DEVICE TERMINAL
- ⊘ THROUGH TERMINAL
- ⊞ FUSE TERMINAL







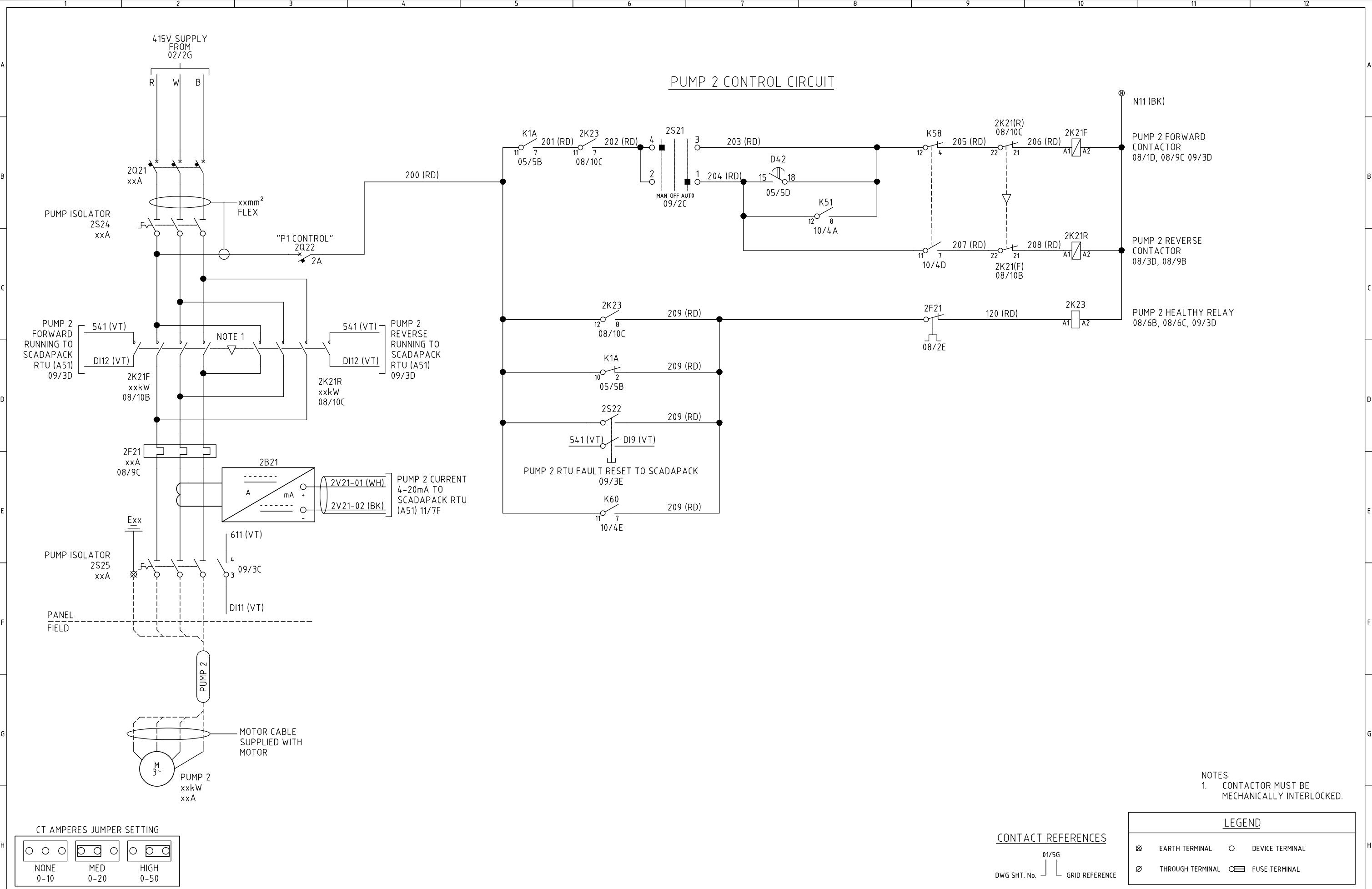
NOTES
1. CONTACTOR MUST BE MECHANICALLY INTERLOCKED.

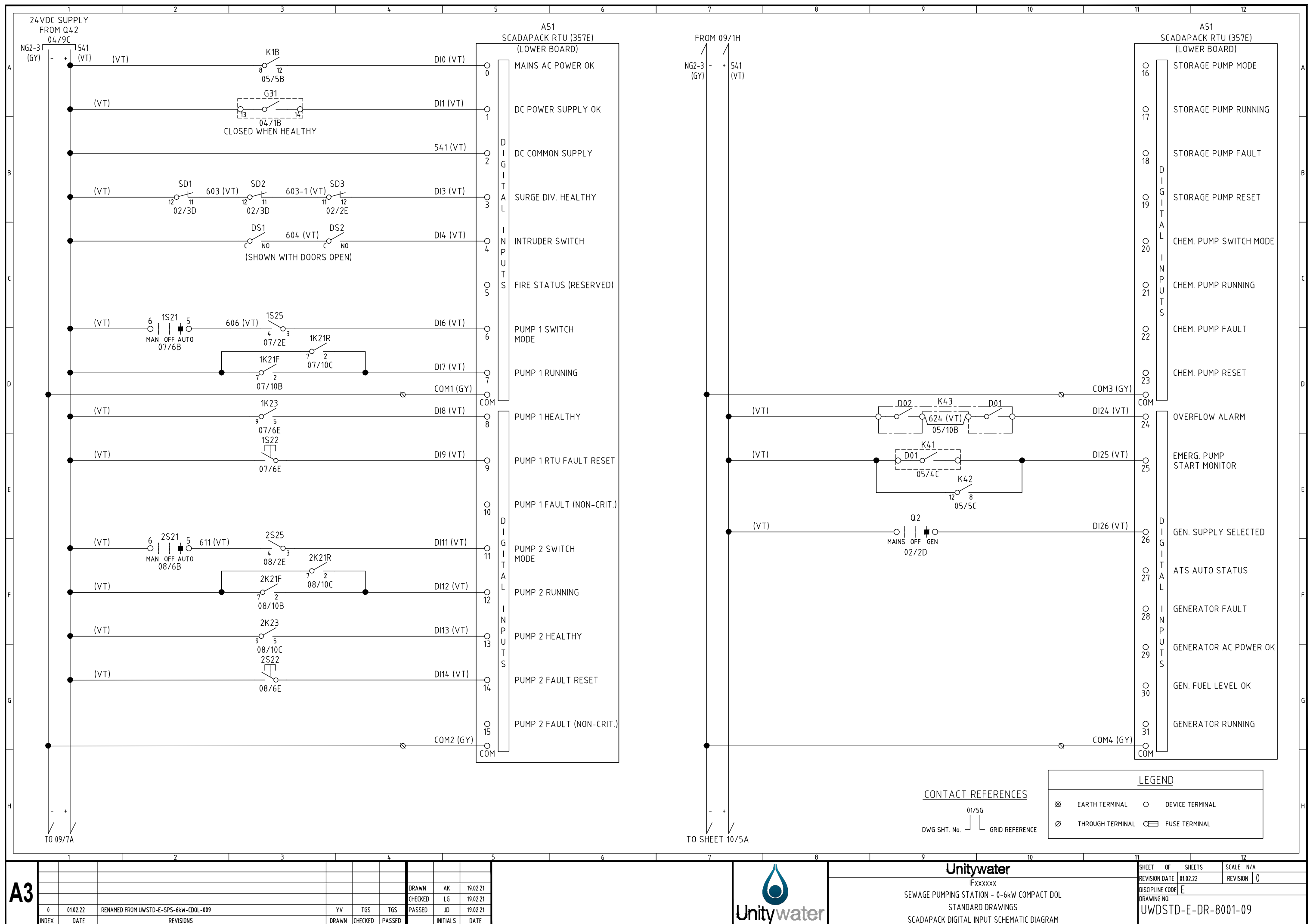
LEGEND			
⊗	EARTH TERMINAL	○	DEVICE TERMINAL
⊘	THROUGH TERMINAL	⊞	FUSE TERMINAL

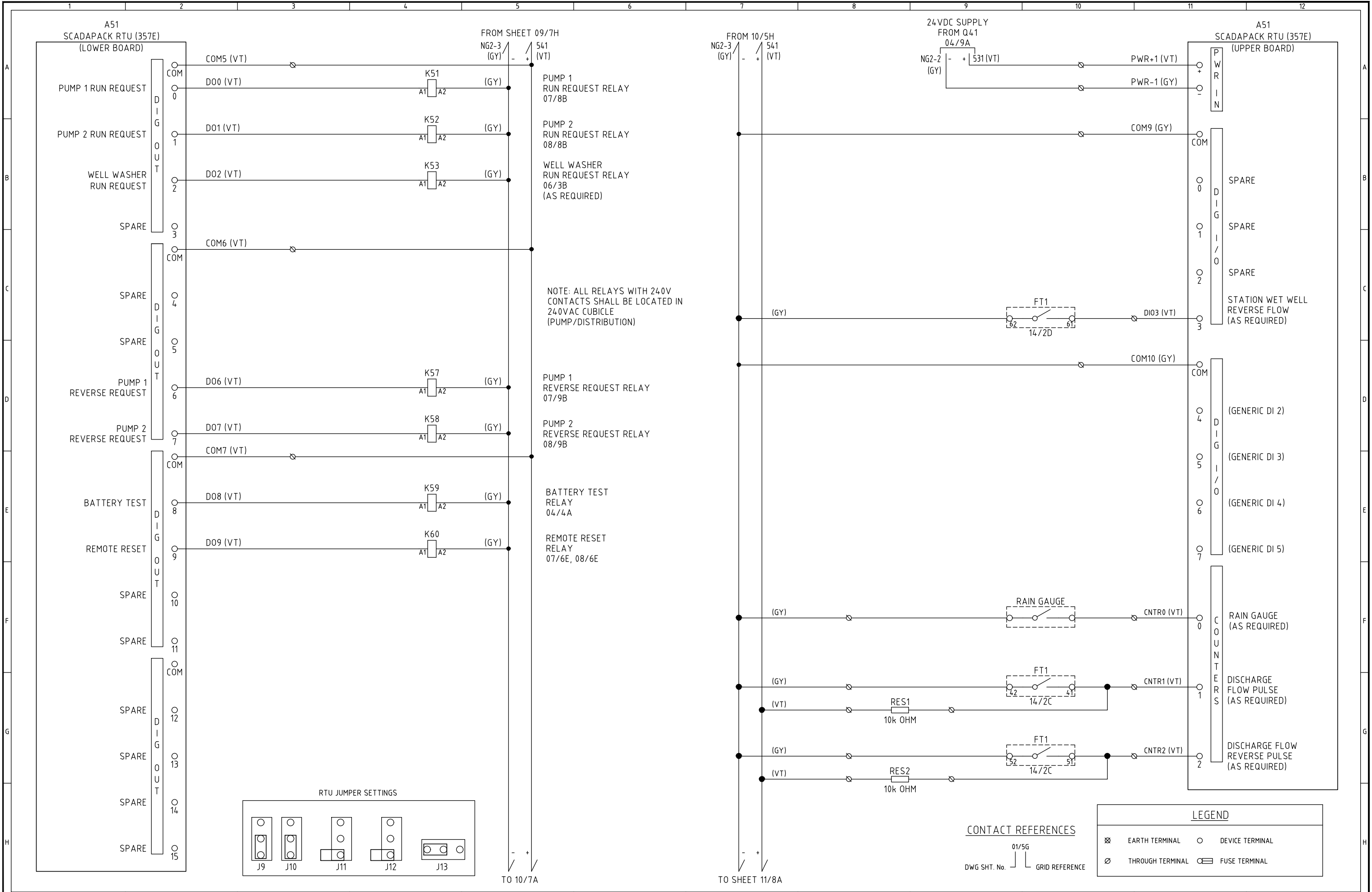
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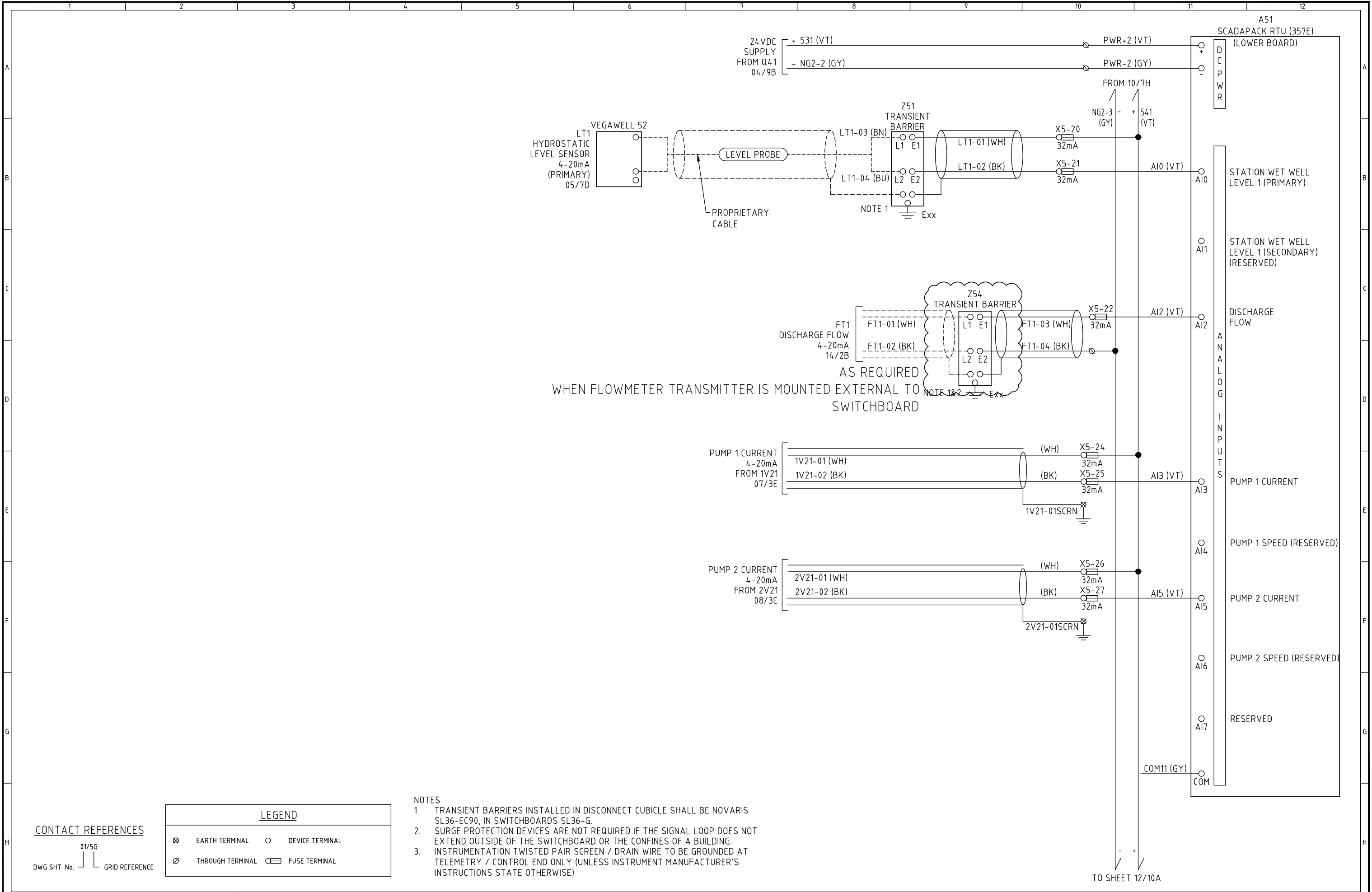
DWG SHT. No. 01/5G
GRID REFERENCE

CT AMPERES JUMPER SETTING		
○ ○ ○	○ ○ ○	○ ○ ○
NONE 0-10	MED 0-20	HIGH 0-50









CONTACT REFERENCES

DWG SHT. No. 01/5G GRID REFERENCE

LEGEND

- ⊗ EARTH TERMINAL
- DEVICE TERMINAL
- ⊘ THROUGH TERMINAL
- ⊞ FUSE TERMINAL

- NOTES
- TRANSIENT BARRIERS INSTALLED IN DISCONNECT CUBICLE SHALL BE NOVARISSL36-EC90, IN SWITCHBOARDS SL36-G.
 - SURGE PROTECTION DEVICES ARE NOT REQUIRED IF THE SIGNAL LOOP DOES NOT EXTEND OUTSIDE OF THE SWITCHBOARD OR THE CONFINES OF A BUILDING.
 - INSTRUMENTATION TWISTED PAIR SCREEN / DRAIN WIRE TO BE GROUNDED AT TELEMETRY / CONTROL END ONLY (UNLESS INSTRUMENT MANUFACTURER'S INSTRUCTIONS STATE OTHERWISE)

A3

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
0	01.02.22	RENAMED FROM UWSTD-E-SPS-6kW-CDOL-011	YV	TGS	TGS		

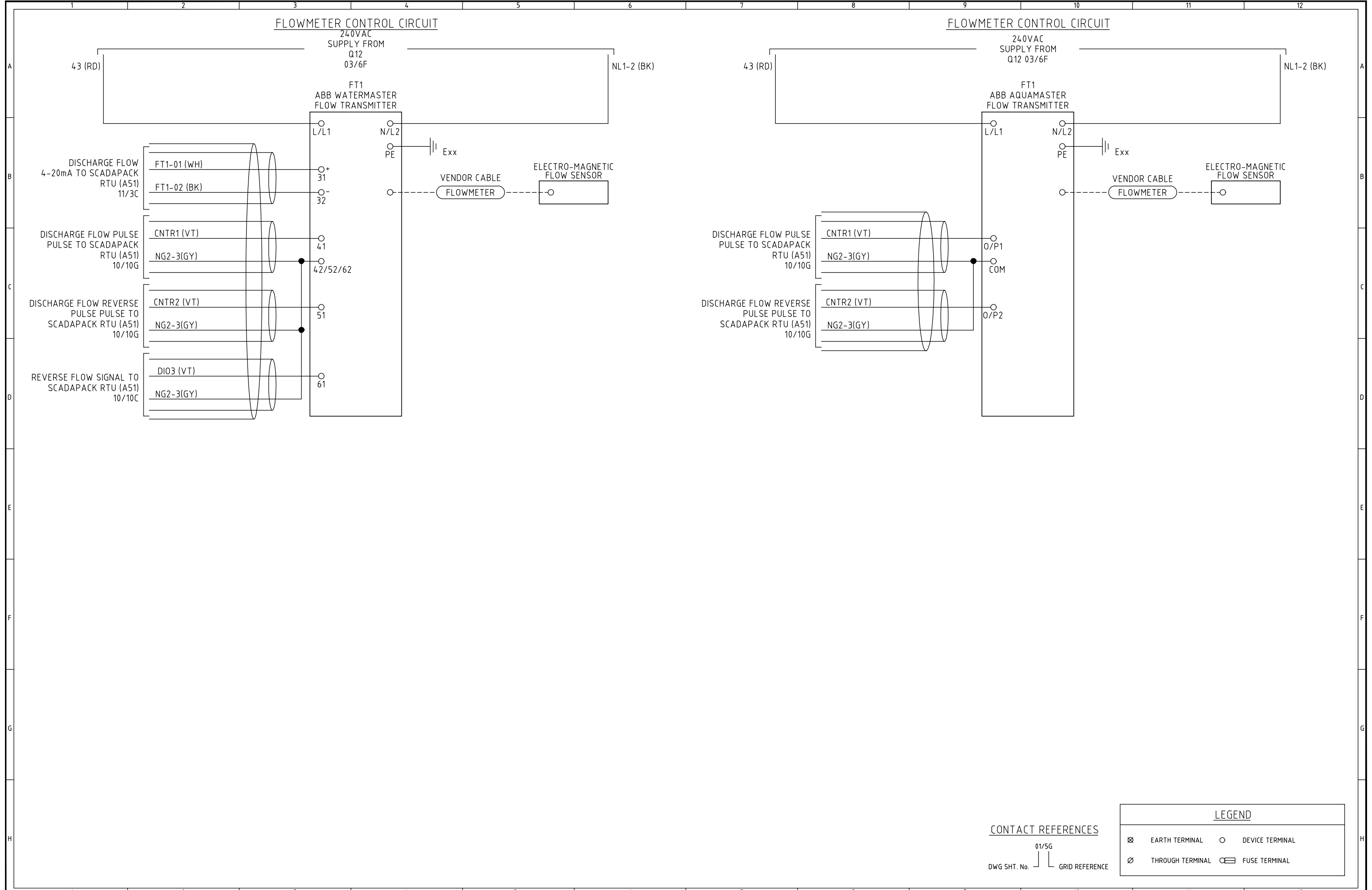
DRAWN	AK	19.02.21
CHECKED	LG	19.02.21
PASSED	JD	19.02.21



Unitywater
IFxxxxxx
SEWAGE PUMPING STATION - 0-6kW COMPACT DOL
STANDARD DRAWINGS
SCADAPACK ANALOGUE INPUT SCHEMATIC DIAGRAM

SHEET OF SHEETS	SCALE N/A
REVISION DATE 01.02.22	REVISION 0
DISCIPLINE CODE E	
DRAWING NO. UWSTD-E-DR-8001-11	





DWG SHT. No. 01/5G GRID REFERENCE

LEGEND			
	EARTH TERMINAL		DEVICE TERMINAL
	THROUGH TERMINAL		FUSE TERMINAL

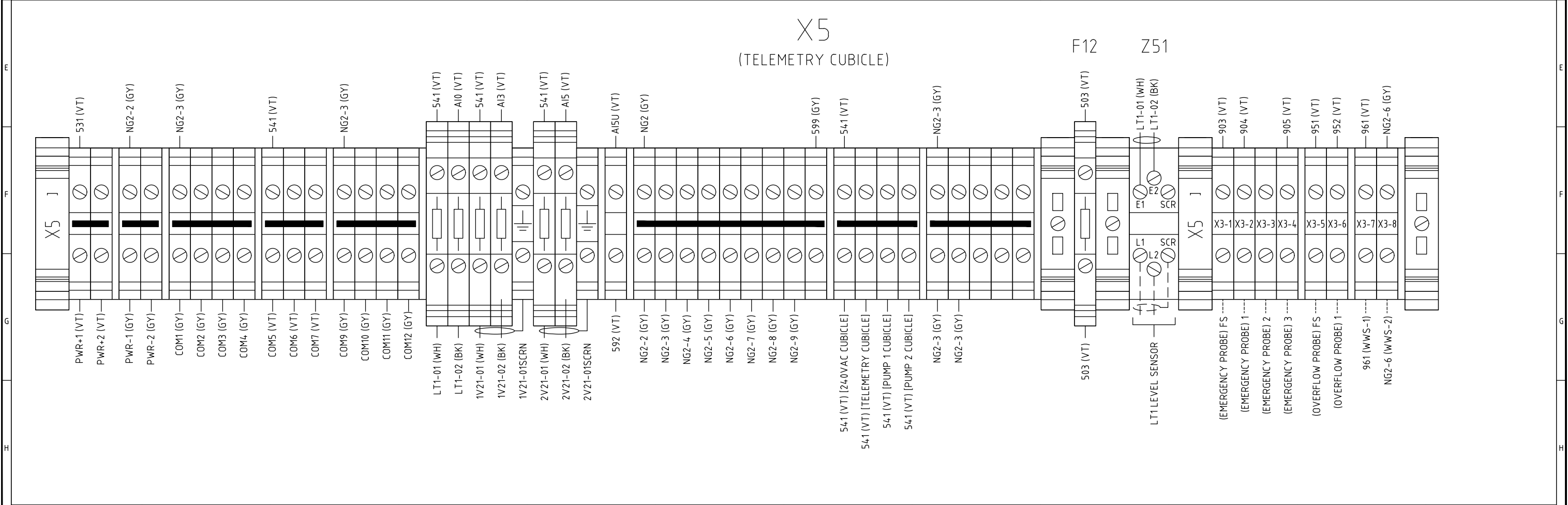
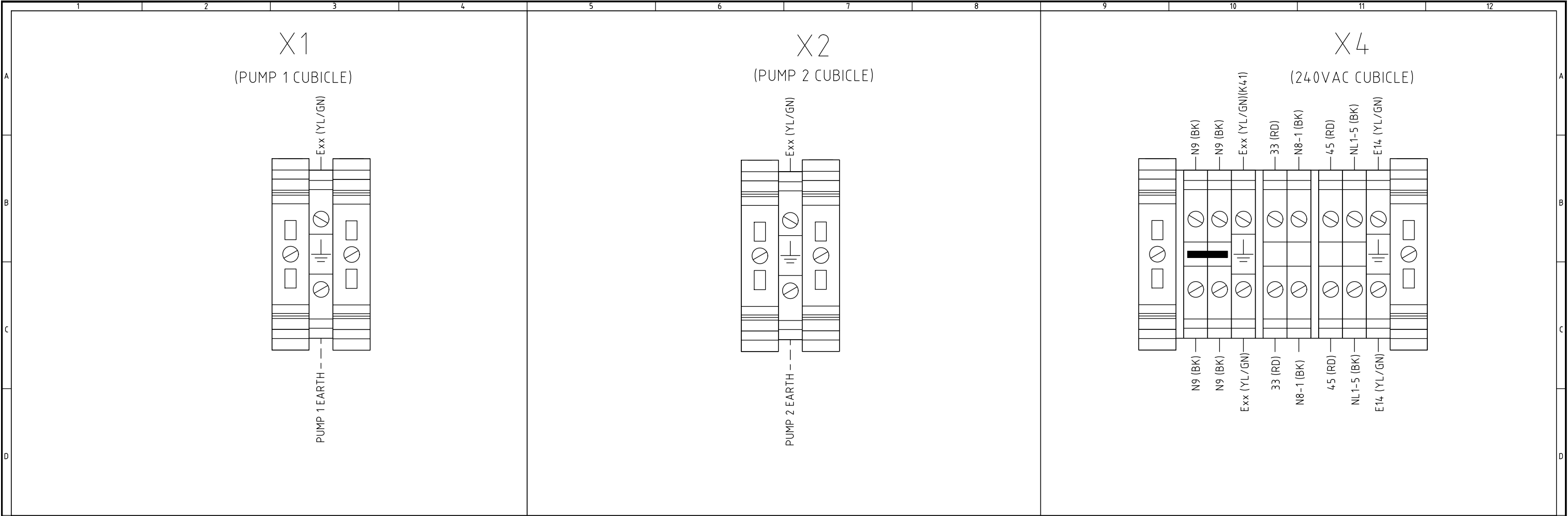
A3

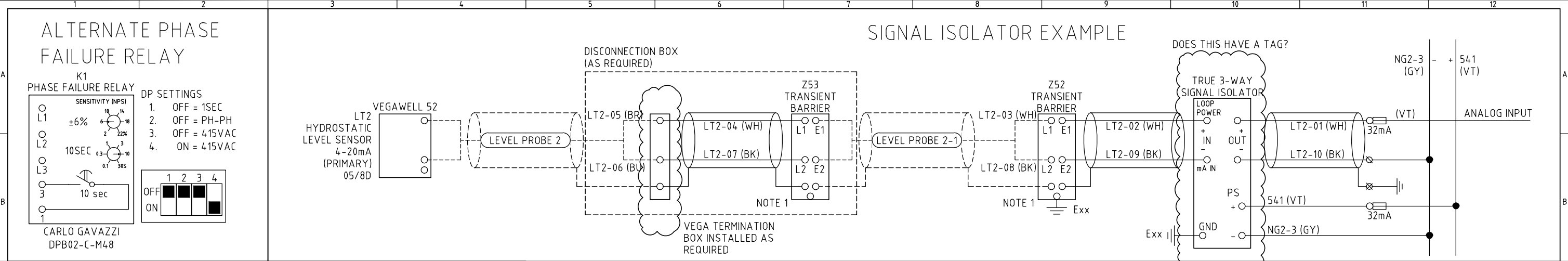
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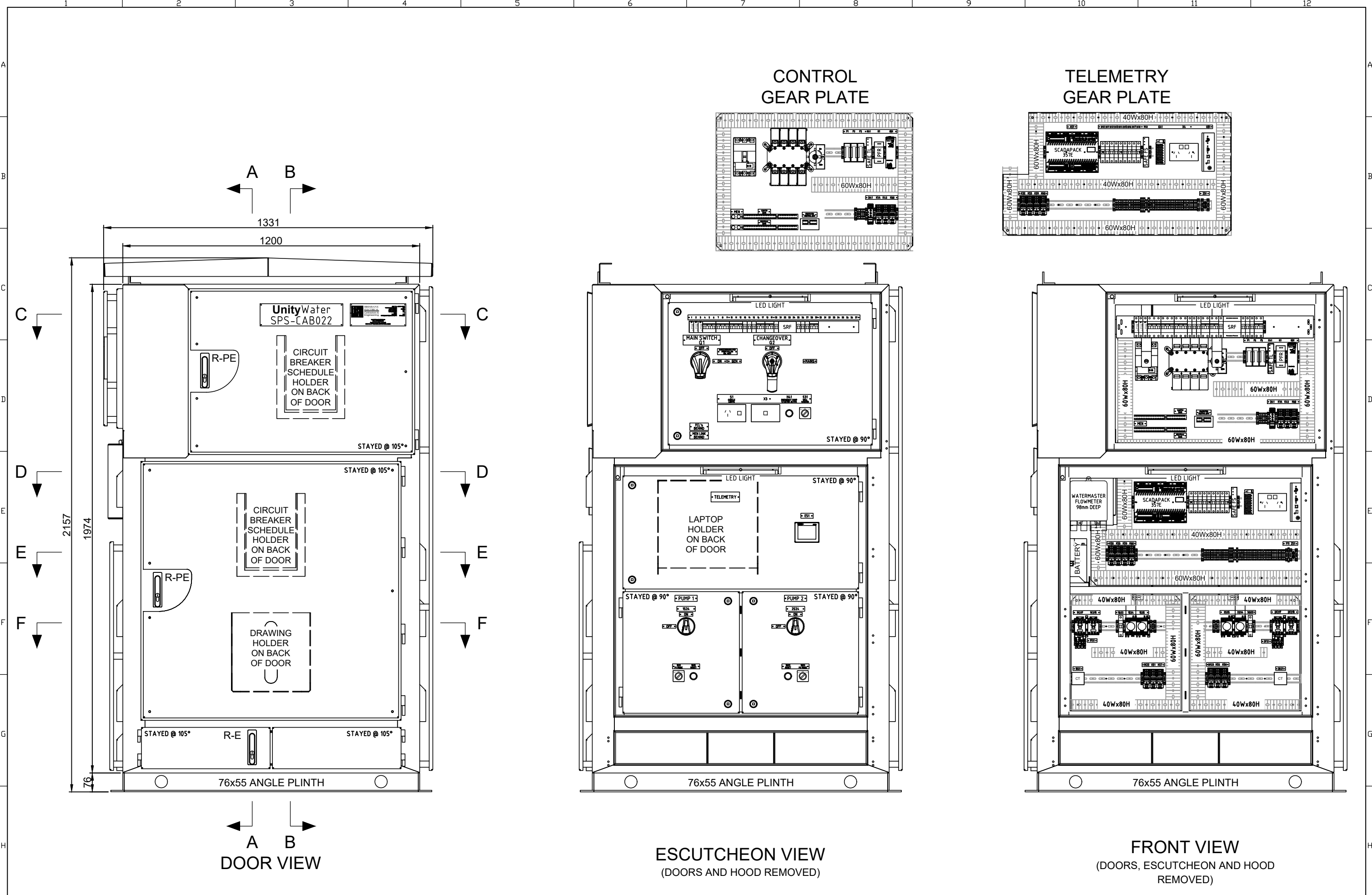
IFxxxxxx
SEWAGE PUMPING STATION - 0-6kW COMPACT DOL
STANDARD DRAWINGS
EQUIPMENT SCHEDULE

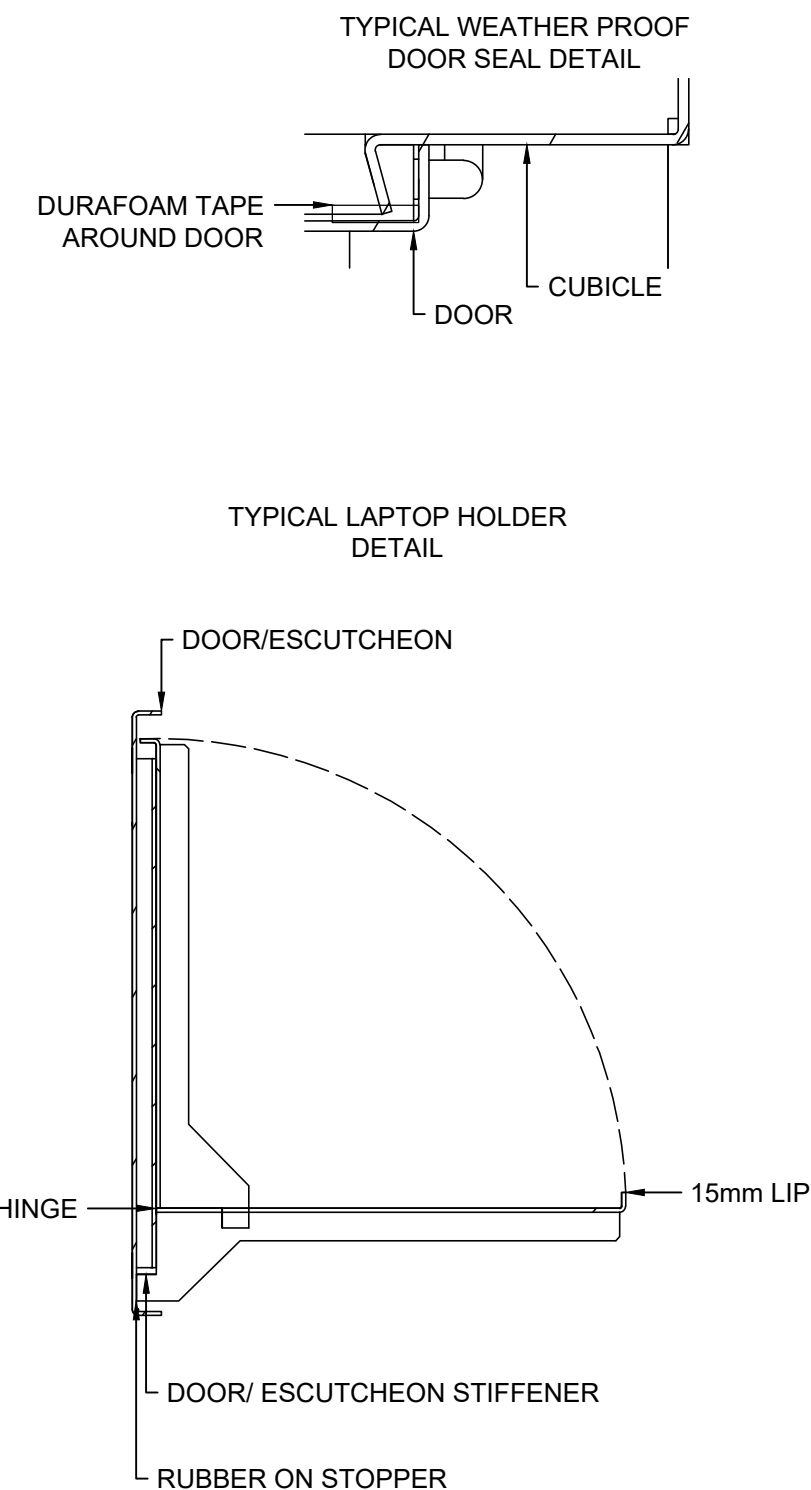
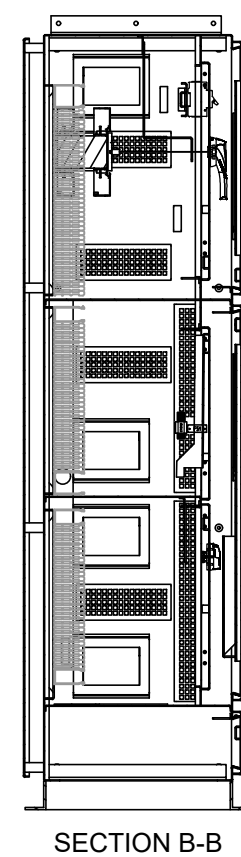
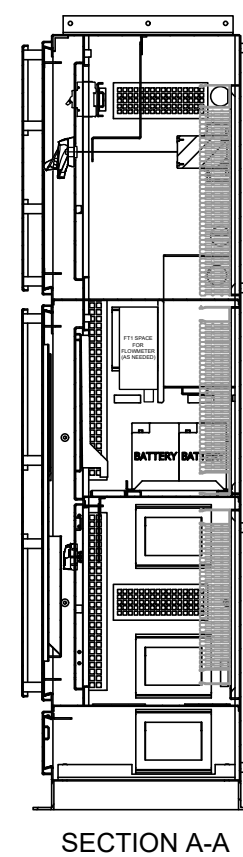
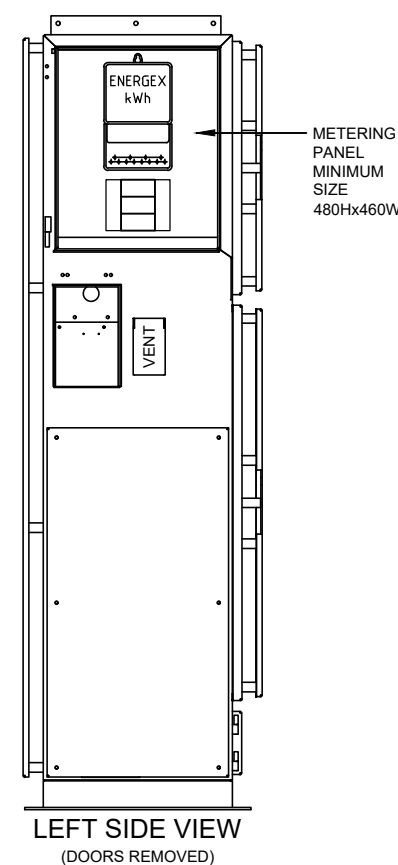
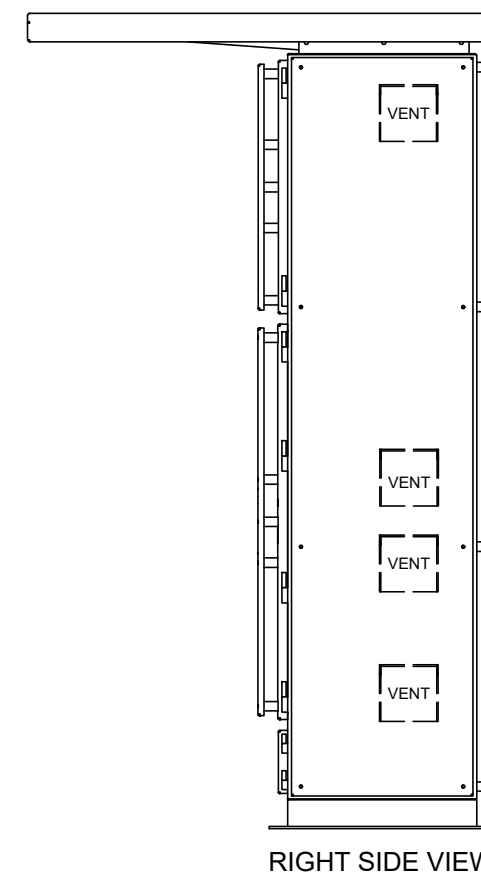
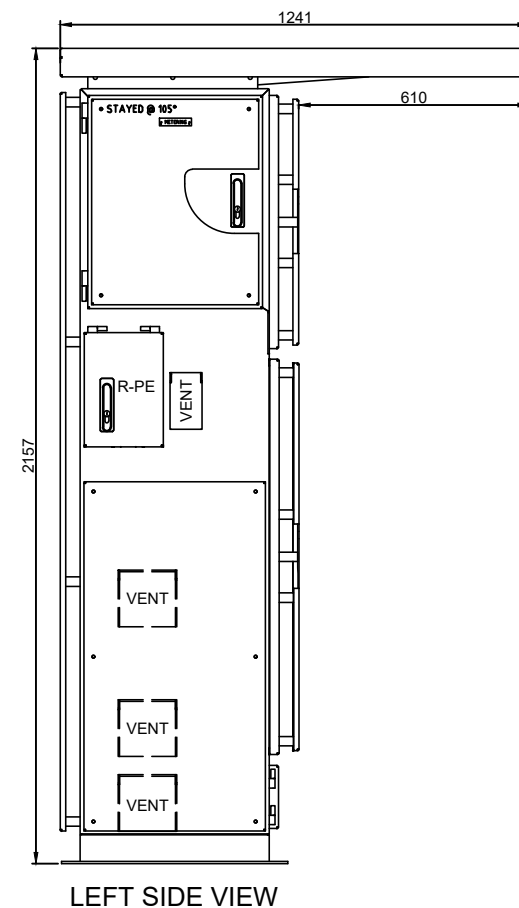
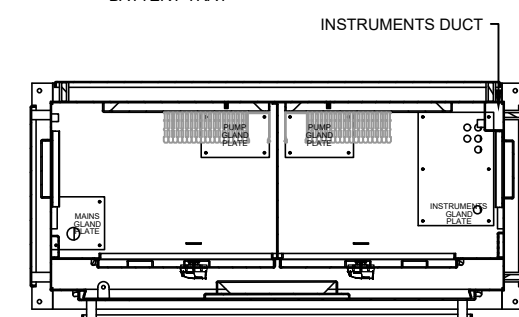
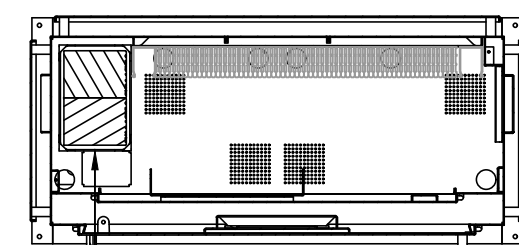
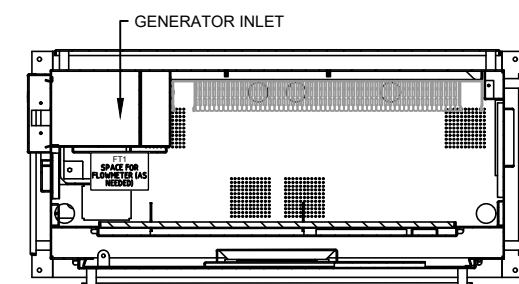
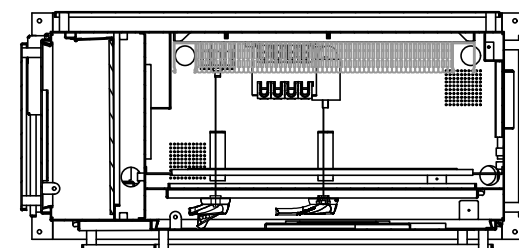
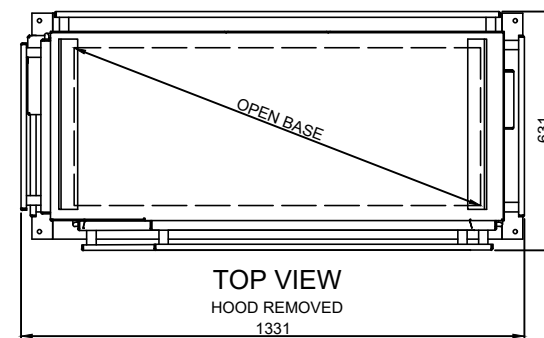
SHEET	OF	SHEETS	SCALE	N/A
REVISION DATE	01.02.22		REVISION	0
DISCIPLINE CODE	E			
DRAWING NO.				
UWDSTD-E-DR-8001-15				

CABLE SCHEDULE															
STATUS	FROM	FROM EQUIPMENT TAG	TO	TO EQUIPMENT TAG	CABLE SIZE	SHEATH/INSULATION/ COLOUR/SHAPE	CORES	TYPE	VOLTAGE	Designation	Label	Distance (Approx)	Supplied By:	Installed By:	Notes
	Pole/Pillar		MSB	X1	≥16mm	Orange circ	4c+e	Power	415VAC	Mains	Mains				
	Earth Pit		MSB	Main Earth Bar	≥6mm	Earth	1c	Earth		Mains - Earth	Mains - E				
	Wet Well	LS41	MSB	K41				Instrumentation		Emergency Pump Starter Probe	Emergency Probe				This is the probe cable
	Wet Well	LT1	MSB	Z51				Instrumentation		Primary Level Sensor	Level Probe				This is the sensor cable
	Wet Well	LS42	MSB	K43				Instrumentation		Overflow Probe	Overflow Probe				This is the probe cable
	MSB	1S25	Wet Well	Pump 1				Power	415VAC	Pump 1 Motor Cable	Pump 1				
	MSB	2S25	Wet Well	Pump 2				Power	415VAC	Pump 2 Motor Cable	Pump 2				
	MSB	F51	Antenna			CNT400		Antenna Coax		Antenna Coax	Antenna				
	MSB	Earth bar	Vent Pole		6mm	Earth	1c	Earth		Vent Pole Bonding	Vent Pole Bonding				
	MSB		Well Washer	WWS	1.5mm	Orange circ	2c	24vdc Power		Well Washer	Well Washer				As required
	MSB	S1	Site Lights		2.5mm	Orange circ	2c+e	Power	240VAC	Site Lights	Site Lights				As required









1. LOCATE ALL EXISTING SERVICES IN THE AREA PRIOR TO COMMENCEMENT OF WORKS, INCLUDING EXECUTING A DIAL BEFORE YOU DIG.
2. ALL WORKS TO COMPLY TO UNITYWATER SPECIFICATION, AS/NZS3000 (ELEC WIRING RULES) AND OTHER RELEVANT CODES & SPECIFICATIONS.
3. DISUSED SITE ASSETS ARE TO BE REMOVED AND THE SITE MADE GOOD AT THE END OF CONSTRUCTION.
4. WHERE A CHANGE OF DIRECTION IS REQUIRED FOR ELECTRICAL CONDUITS, LARGE SWEEP BENDS ARE TO BE USED.
5. RECONNECT ALL EXISTING CIRCUITS AND INSTRUMENTS



THE LOCATION OF SERVICES ON THIS DWG HAVE NOT BEEN PROVEN AND ARE INDICATIVE ONLY. TAKE MEASURES TO LOCATE SERVICES PRIOR TO COMMENCEMENT OF WORKS.

[illegible]