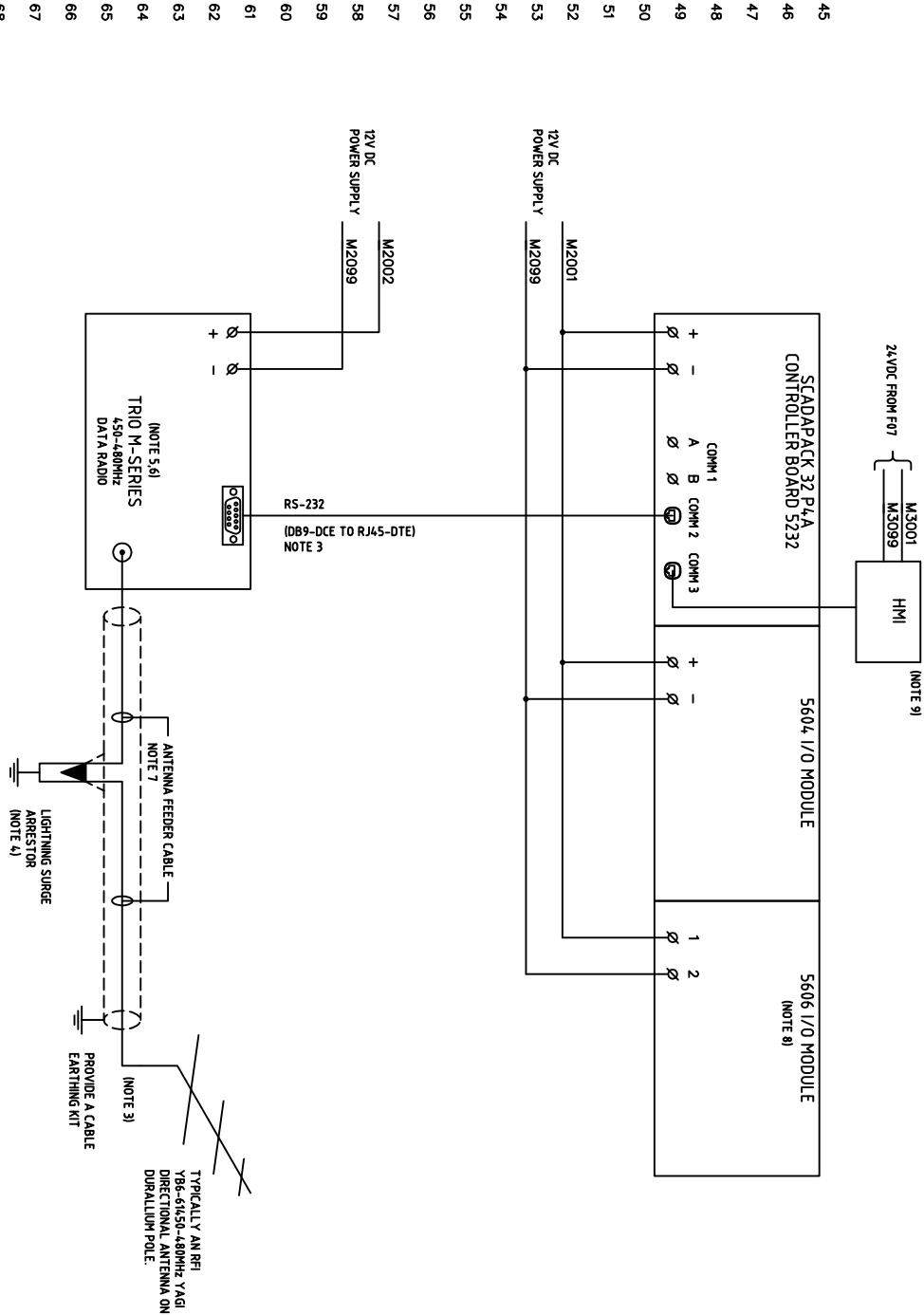


NOTES:

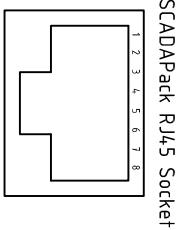
- ALL WIRE NUMBERING TO BE AS PER THE DRAWING. THIS INCLUDES ALL TELEMETRY WIRING.
- BATTERY CHARGER CAPACITY TO BE MINIMUM 200% OF CONNECTED LOAD (TELEMETRY & INSTRUMENTATION). BATTERIES TO PROVIDE 4 HR BACKUP AT 150% CONNECTED LOAD, TYPICALLY 40AH MINIMUM.
- UNLESS OTHERWISE INSTRUCTED THE CONTRACTOR SHALL MOUNT THE ANTENNA ON A DURALUMIUM ALLOY POLE HIGHT AS SPECIFIED IN RF SURVEY.
- PROVIDE A LIGHTNING SURGE ARRESTOR AT THE POINT OF ENTRY TO THE SWITCHBOARD OF THE ANTENNA FEEDER CABLE. TRIOD LIGHT ARREST OR APPROVED EQUIVALENT.
- THE RADIO SYSTEM SHOWN IS INDICATIVE ONLY. ENGAGE THE WPW PREFERRED RADIO SYSTEMS CONTRACTOR TO UNDERTAKE A RADIO PATH SURVEY TO THE NOMINATED WPW BASE STATION AND PROVIDE THE RADIO SYSTEM AS DETERMINED BY THE SURVEY.

EXTRA LOW VOLTAGE DISTRIBUTION

- THE DATA RADIO SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. NOTE IN PARTICULAR THE TEMPERATURE CONTROL AND EARTHING REQUIREMENTS.
- ANTENNA FEEDER CABLE IS TYPICALLY A BELDEN RG-214 CABLE OR APPROVED EQUIVILANT.
- ORDER THE 5606 I/O MODULE WITH ALL INPUTS CONFIGURED FOR 12-24VDC.
- PROVIDE THE HMI SCREEN FOR THE SCADAPACK. PROFACE AGP 3302-B1-D24 OR APPROVED EQUIVALENT.
- RADIO AND HMI RS232 CABLES ARE TYPICAL CATEGORY 5 PATCH LEADS. CONNECTIONS MUST BE CONFIRMED AS COLOURS SHOWN ARE ARBITRARY.
- RADIO AND HMI RS232 COMMS CABLES TO BE SOLDERED TO DE9 CONNECTORS AS DETAILED. RJ45 TO DE9 PLUG-IN CONVERTERS ARE NOT TO BE USED.

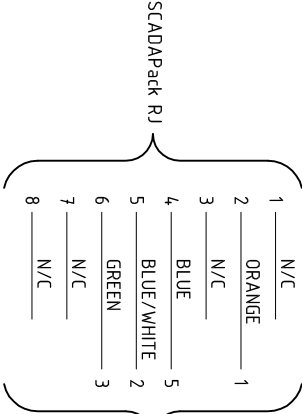


RADIO TELEMETRY BLOCK DIAGRAM

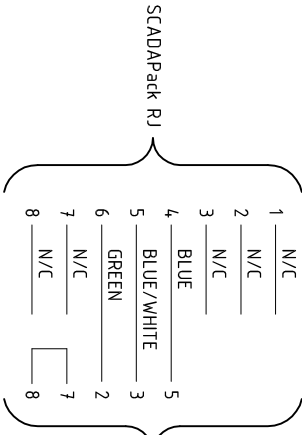


Grey patch lead from SCADAPack
COM2 to TRIO MR450 radio

Yellow patch lead from SCADAPack
COM3 to Proface HMI Com 1



TRIO 9 Pin Male D-sub
(NOTE 11)



Profpace 9 Pin Female D-sub
(NOTE 11)

RTU PATCH LEADS DETAIL

REV.	REVISION DETAILS	BY	CHECKED	APPROVED	DATE	DRAWN	V.A.I.S	Client Dwg No:	
						DATE	18 Oct 2010	E209	
						DESIGNED		PROJECTED:	09039-009
						DWG CHECKED		SHIFT NO:	1
						PROJECT MGR	M Wyzenbeek	REV:	1.0
						ELEC. DIRECTOR			
						SCALE:	SHEET A3		
							1		

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WESTERNPORT
WATER

Westernport Water
Newhaven
Sewer Pump Station
Single Line Diagram