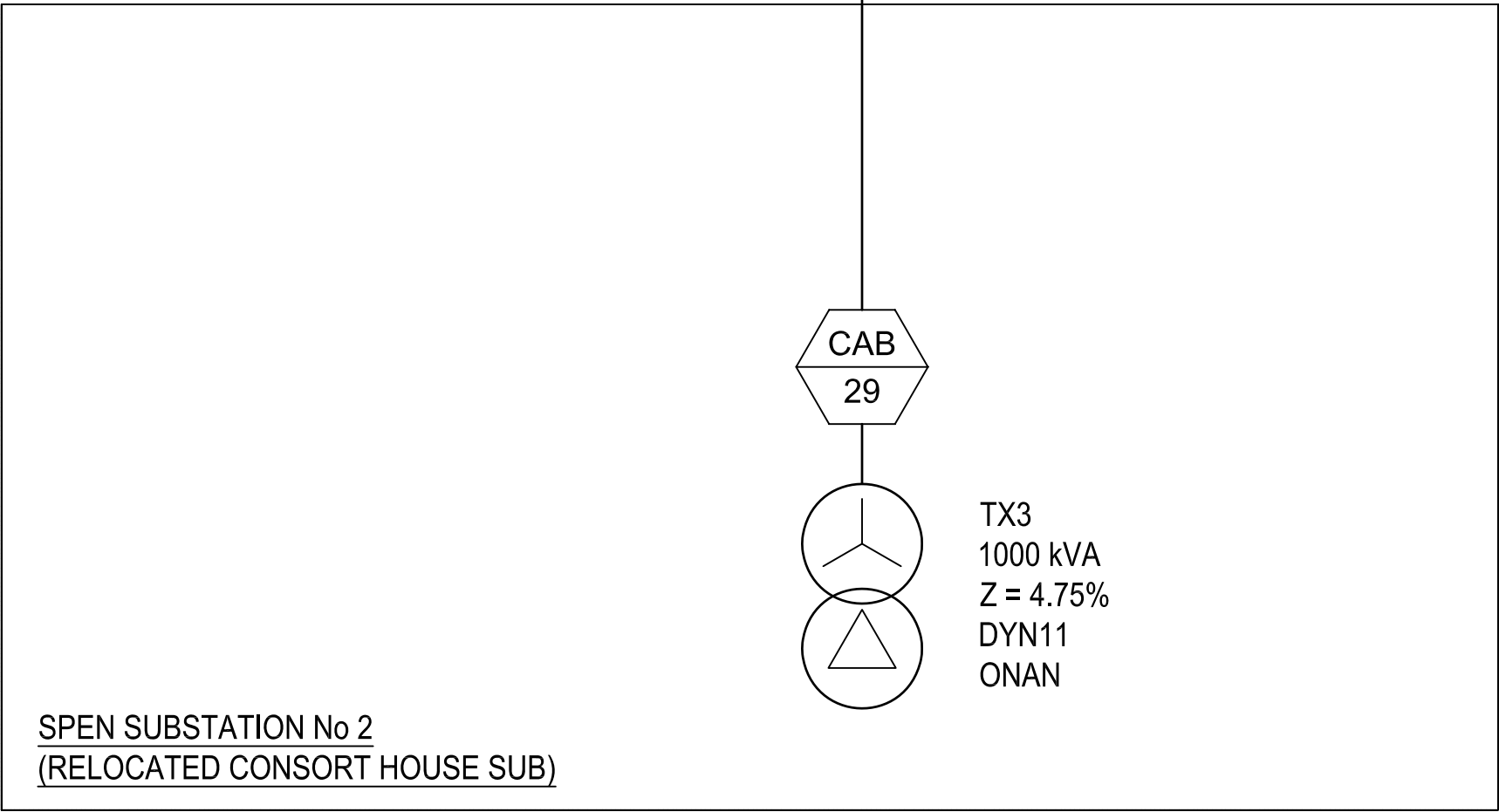
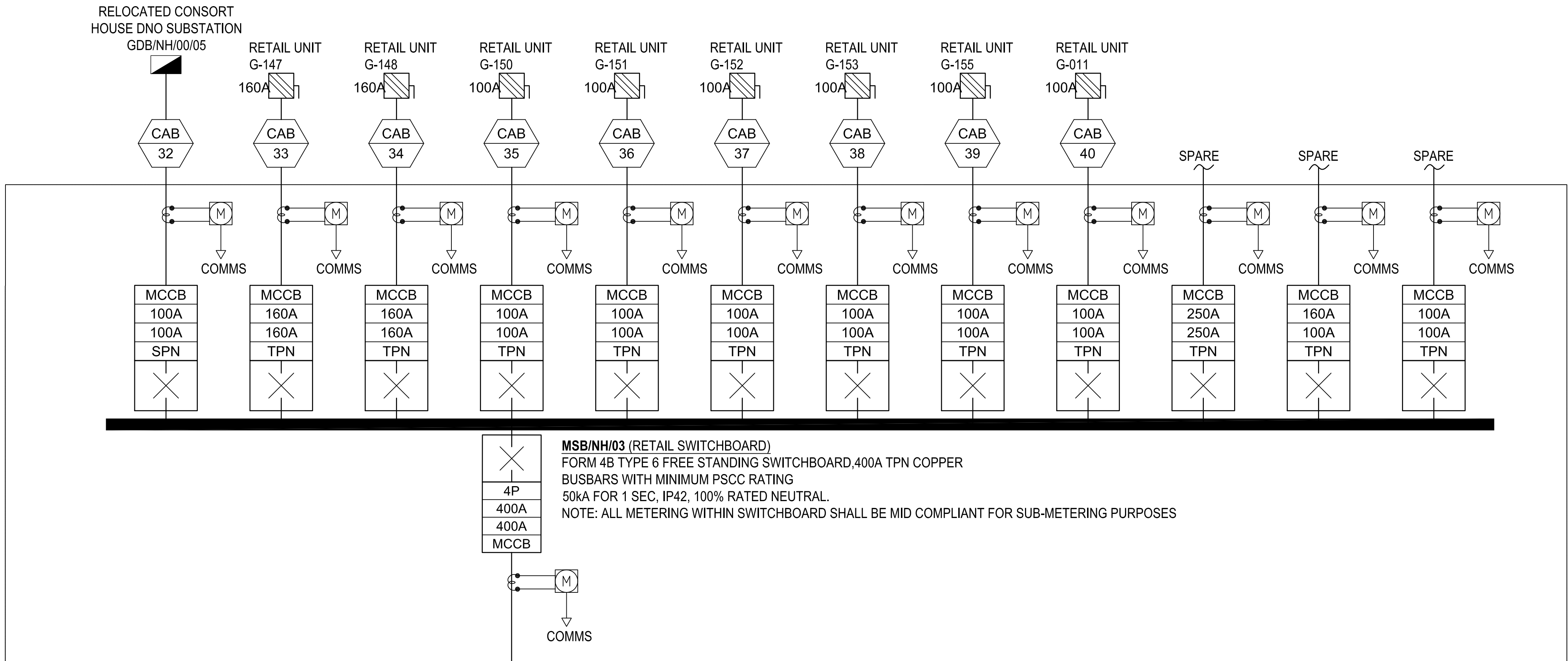
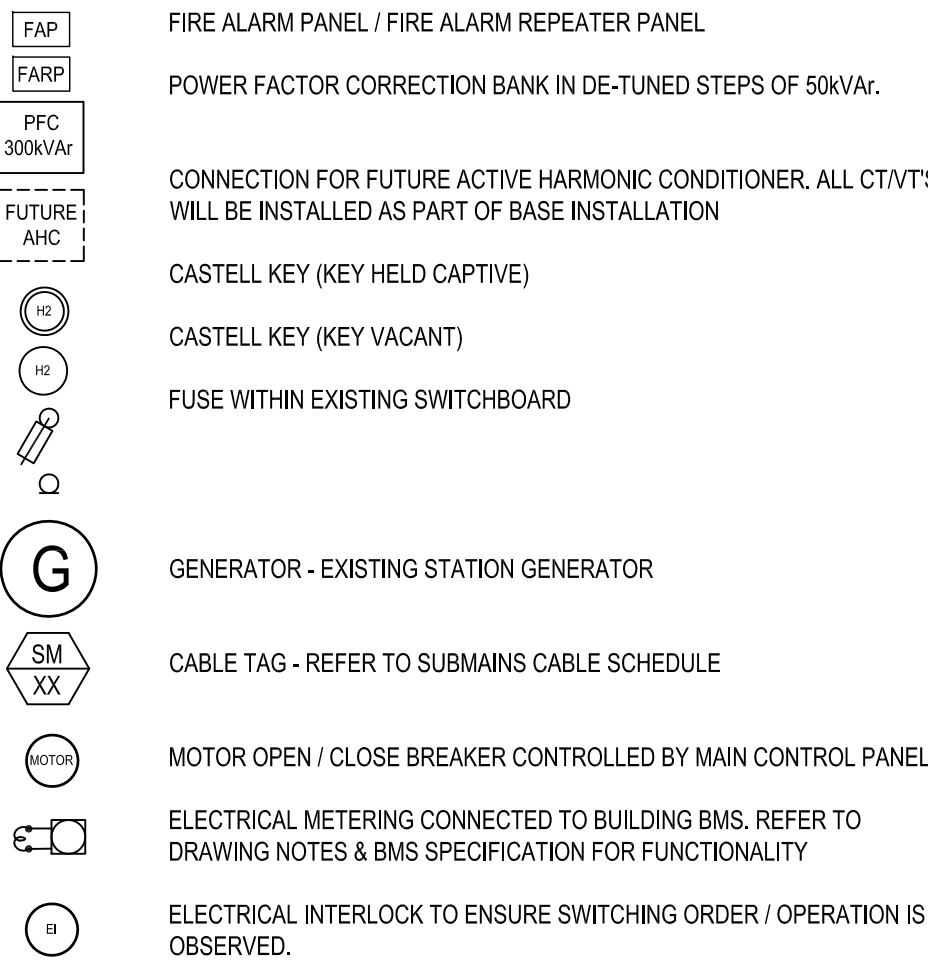
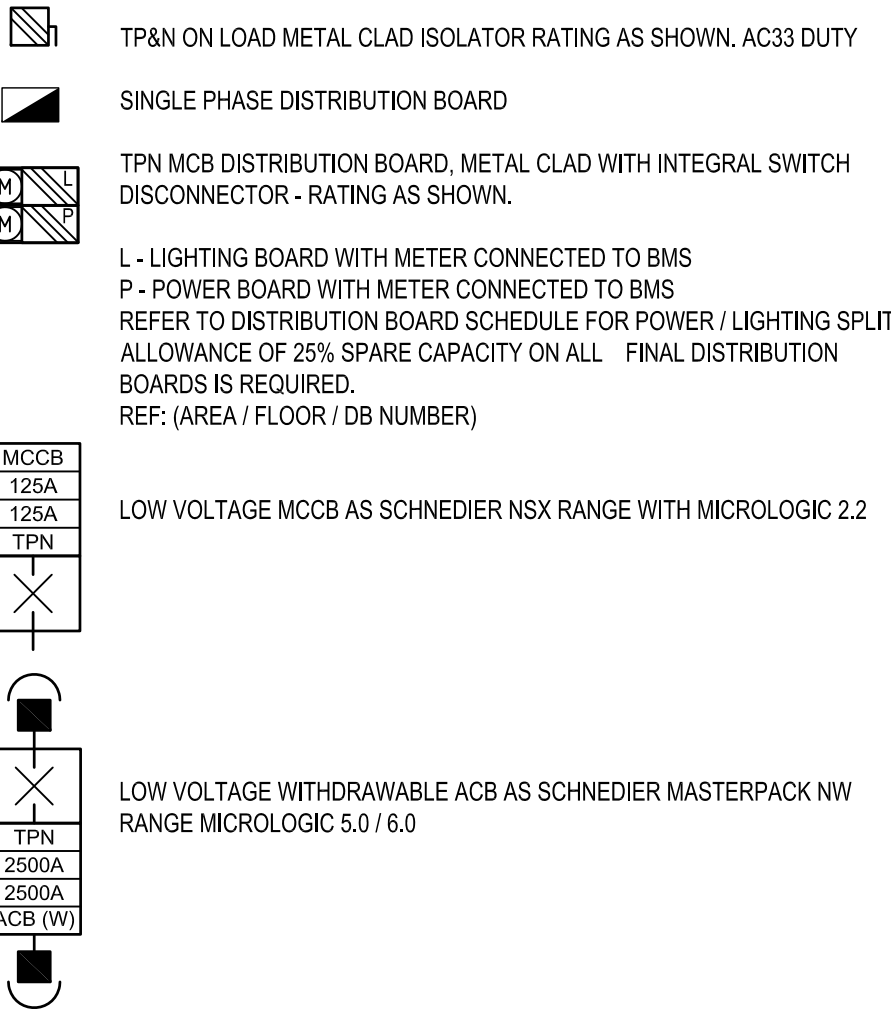


LEGEND:



DO NOT SCALE

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For all applications:
Note: This drawing has been extracted from a model that contains information imported directly from various products in the database, and may be subject to further design development as the project progresses.
Additional notes by GDB only show NTS & PSCC.
Note: The works indicated in this area outlined in blue are subject to amendment through a parallel GDB & design process. They are indicated and provided for context only.

- NOTES
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND SCHEDULES
 - ALL METERS SHALL BE CONNECTED TO THE BUILDING BMS/EMS SYSTEM
 - BUS SECTION SHALL BE CLOSED AND LOCKED OFF
 - EXISTING ACB PREVIOUSLY UTILISED AS REC INCOMER #2 SHALL BE REMOVED AND A NEW DEVICE INSTALLED TO PROVIDE INTERCONNECT TO NEW ELECTRICAL SWITCHBOARD
 - EXISTING SUPPLIES WHICH ARE TO BE REMOVED / MODIFIED SHALL BE DETAILED AS PART OF THE DEMOLITION AND CONSTRUCTION PHASING WORKS.
 - THE DRAWING SHOWS THE DESIGN INTENT ONLY, THE OUTCOME OF THE HV/LV AND EARTHING STUDY MAY CHANGE THE FINAL LAYOUT / CONFIGURATION OF THE DESIGN. THIS SHALL BE DEVELOPED BY THE CONTRACTORS AS PART OF GRIP 5 DESIGN.
 - THE COMPLETE INSTALLATION TO BE IN STRICT ACCORDANCE WITH THE IEE 17TH EDITION WIRING REGULATIONS (BS 7671: 2008) AND RELEVANT CLIENT SPECIFICATIONS.
 - SWITCHGEAR TO BE DESIGNED IN ACCORDANCE WITH THE NATIONAL AND INTERNATIONAL STANDARDS INCLUDING BUT NOT LIMITED TO:
 - IEC 60271-102001 A TERMINATING CURRENT DISCONNECTORS AND EARTHING SWITCHES
 - IEC 60525 ELECTRICAL RELAYS
 - IEC 60044 CURRENT TRANSFORMERS
 - BS7625 VOLTAGE TRANSFORMERS
 - SWITCHGEAR TO BE TESTED FOR INTERNAL ARC WITHSTAND CAPABILITY IN ACCORDANCE WITH IEC60288, APPENDIX AA, TEST CRITERIA 1-4, ACCESSIBILITY CLASS 4 EACH OF THE MEDIUM VOLTAGE (BUSBAR, CIRCUIT BREAKER AND CABLE TERMINATION) COMPARTMENTS TO BE FITTED WITH EXHAUST FLAPS, PROVIDING VENTING OF ARC PRODUCTS AT THE REAR OF THE EQUIPMENT, I.E. AWAY FROM THE OPERATOR.
 - THE CONTRACTOR SHALL CONFIRM FAULT RATINGS OF EQUIPMENT SPECIFIED ARE SUFFICIENT TO PROTECT AGAINST ANTICIPATED FAULT CURRENTS FOLLOWING PROTECTION STUDY AND FIT CURRENT LIMITING FUSES AS APPROPRIATE.
 - REFER TO SPECIFICATIONS FOR SWITCHGEAR DETAILED SPECIFICATIONS.
 - LV SWITCHBOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH BS EN 61439-1
 - GENERAL REQUIREMENTS FOR LV SWITCHBOARD:
 - SWITCHBOARD SHALL BE CONFIGURED FOR TOP INCOMING AND OUTGOING WAYS COMPLETE WITH TRANSITION CABLE TERMINATION BOXES AS REQUIRED
 - SWITCHBOARDS SHALL NOT EXCEED 2240MM IN HEIGHT, INCLUDING CABLE AND TERMINATION BOXES AND PLINTH
 - OPERATION SWITCH HANDLES SHALL BE IN THE RANGE OF 450MM - 1800MM MAXIMUM
 - SWITCHBOARD SHALL BE FULLY ENGRAVED COMPLETE WITH BUILT IN MULTIFUNCTIONAL IN/OUT METERS TO COMPLY WITH PART L BUILDING REGULATIONS, TOGETHER WITH BOLTED NEUTRAL LINK FOR TESTING PURPOSES
 - SWITCHBOARD SHALL BE PROVIDED WITH 25% SPARE CAPACITY. ALL SPARE WAYS SHALL BE FULLY FITTED WAYS AS INDICATED.
 - INCOMING METERING SHALL MONITOR HARMONICS UP TO THE 49TH HARMONIC, REFER TO BMS REPORT FOR DETAILS.
 - PROVIDE THE FOLLOWING IN THE SWITCH ROOM:
 - FIRE EXTINGUISHERS - CO₂ AND POWDER
 - FIRE BLANKET
 - DOOR LOCKS AND KEYS
 - RUBBER MATTING TO BS 921
 - SHOCK CHARTS, HAS NOTICE, SINGLE LINE AS INSTALLED SCHEMATIC AND VOLTAGE WARNING NOTICES.

B01	22/07/16	GRIP 5 ISSUE	AR	CDC
Rev	Date	Description	Drawn	Checked
Status		GRIP 5		

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Client
Network Rail

Project Title
Queen Street Station

Drawing Title
RETAIL DISTRIBUTION SCHEMATIC

Drawn By	Name	AR	Sig.	Date	06/04/16
Checked By	Name	CDC	Sig.	Date	06/04/16
Approved By	Name	RF	Sig.	Date	06/04/16
Scale	NTS	Sheet	of		
Map Grid	ELR	UCM	Distance		
Network Rail Drawing Number	EGIP19-ARP-DRG-EDS-61-S92	Rev	B01		

Size: A0