

www.bse-consultants.com

'6, St John Street, Mosta, Malta T +356 21410677 M +356 9942 4288/+356 99227198

About Us:

- Provision of Building Services Engineering with a combined expertise spanning over 20years
- MEP Design Services, Project & Construction Management
  - Industrial
  - Commercial
  - Residential buildings
- Assistance in every project phase, from initial planning to actual designing and project supervision.
- Our core focus is:
  - Excellence and commitment towards sustainability within the built environment whilst maintaining efficiency and cost reduction
  - Quality, Client Satisfaction & Added Value





Areas of Expertise

- *Mechanical Engineering Services*
  - HVAC - Heating, Ventilation & Air Conditioning
  - Plumbing Systems – including 1st Class, 2nd Class and Hot Water systems
  - Sewerage and Drains Systems
  - Surface water Collection Systems
  - Rainwater Collection Systems
  - Irrigation Systems
  - Underfloor Heating Systems
  - Swimming Pool installations

- *Electrical Engineering Services*
  - Lighting and Lighting Control Systems
  - Intelligent Lighting Systems
  - Low and Medium Power Systems
  - Backup Power Systems
  - Cable Containment installations
  - Lightning Protection Systems
  - Power Factor Correction Systems

- *Extra Low Voltage Engineering Services*
  - IT Network & Telephony Systems
  - Intercom Systems
  - Intruder Alarm & Security Systems
  - CCTV Systems
  - Access Control Systems
  - TV Distribution Systems
  - PA/Speakers/Music Installation Systems
  - Car Park Management Systems
  - Home Automation Systems
  - Building Management Systems (BMS)

- *Fire Safety and Security*
  - Fire Detection and Alarm Systems
  - Fixed Fire Protection Systems (Wet/Dry Risers, Sprinklers, Hydrants, Water mist systems, extinguisher systems)
  - Emergency Lighting Systems

- *Renewable Energy System Design*

- *Certification of Works*

- *Applications for Utility Supplies (Enemalta, WSC, REWS, MRA etc.)*

- *Quantity Surveying for MEP Services*

- *Building Permit Reports*
  - Fire Safety and Ventilation Reports
  - Lighting and Ventilation Reports
  - Energy usage Reports
  - Environmental Impact Assessment Reports (MEP Services)
  - Electrical Load Assessment Reports
  - Noise Emission Reports

- *Project Management*

- *Environmental Performance Certificates (EPC) for Residential and Commercial Premises*

Building Services Engineering (MEP) Consultancy

What is it?

- The design of Mechanical, Electrical and Plumbing systems.
- Proper MEP design is essential in order to maximise efficiency and ensure that the full potential of the building is achieved.
- MEP installations have an almost permanent impact on the efficiency, safety, integrity and overall comfort of your living space throughout the lifetime of the premises.

What BSE bring to the table:

Access to a multidisciplinary team with years of experience highly skilled to produce technical drawings and specifications, and compliance with local rules and regulations

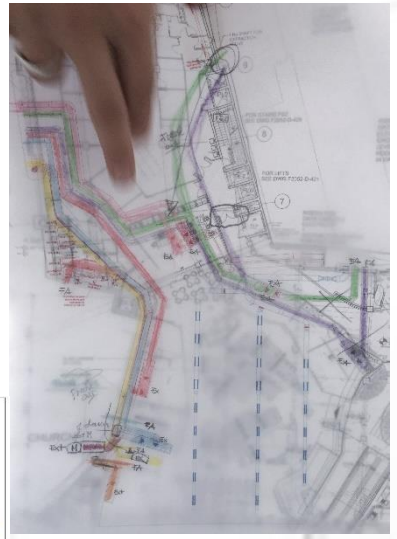
A complete project management partnership from the very first stages of a project by competent professionals.

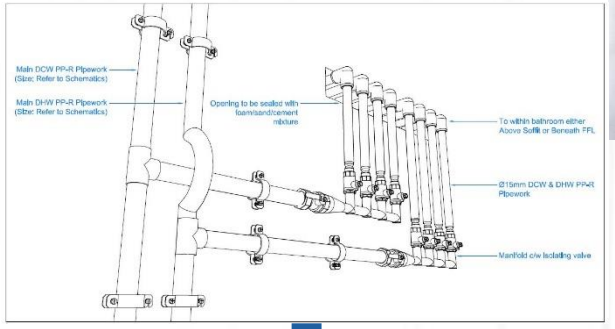




MEP Services – Flowchart

- **Phase 1** • Design Development
- **Phase 2** • MEP Systems design – Conceptual/Schematic/Detailed Design
- **Phase 3** • Procurement & Tendering
- **Phase 4** • Project management and implementation
- **Phase 5** • Commissioning & Testing & Handing Over



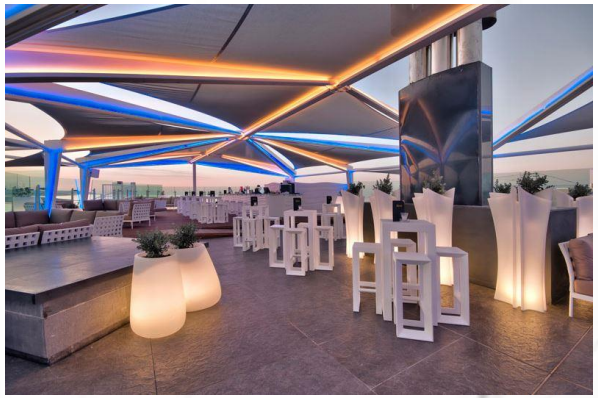




Company Portfolio – Commercial Property

- The New Citroen Showroom, Attard
- OK Medical, Swatar
- Costa Coffee Outlets – St. Julian's & Marsaxlokk
- Dental Clinic, Balzan
- VBL – Strait Street, Valletta – 8No. Commercial Outlets
- Loop Bar, Valletta
- Healthy Hog, Mriehel
- Garam Marsalaa, Qawra
- Cheeky Monkey Gastropub, Valletta
- Cheeky Monkey Creperie, Valletta
- Environmental Resources Authority, Hexagon House
- Hard Rock Malta
- Birzebbugia Water Polo Pitch
- The Undercroft Café, Valletta
- Il-Gabbana, Sliema
- Taza Restaurant & Sky Bar
- Bortex New Retail Outlet, Mriehel





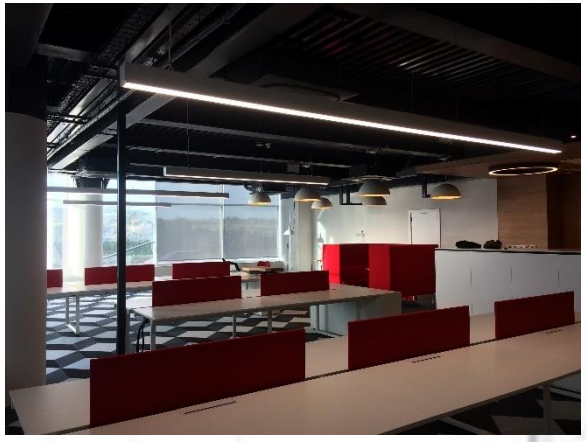


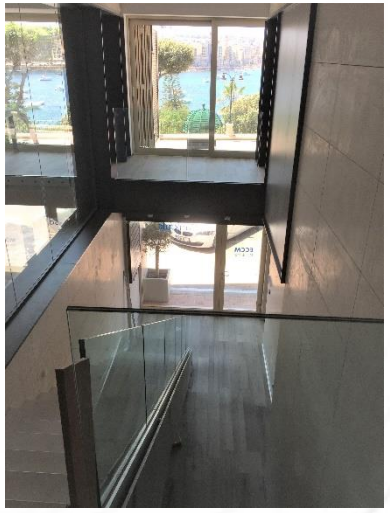


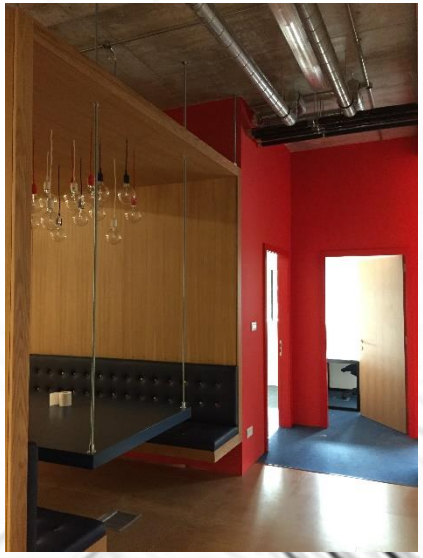
Company Portfolio – Office Buildings

- Alter Domus Malta
- Business Office Services -
- Malta Digital Hub – Malta Life Sciences Park, San Gwann
- AAT Research Ltd
- Development House, Floriana – Housing offices for ROCS, BMW, Willis, BEE, etc.
- Malta Life Sciences Park, San Gwann
- Altaro
- Alvogen
- Identity Malta
- Department of Active Aging and Community Care, Qormi
- Malta Financial Services Authority
- Pet Nutrition House Ltd
- ECCM Bank Malta -Makaw Ltd.
- European Asylum Support Office – EASO
- BOV Head Office, St. Venera
- Izola Bank, Valletta
- AON Offices, Mriehel







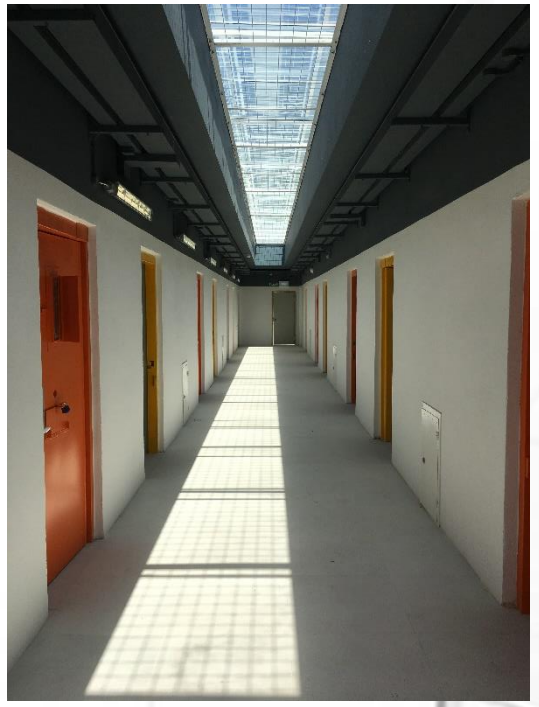


Company Portfolio – Industrial Premises

- De La Rue, Malta
- Amino Chemicals
- Storage Systems Ltd.
- ST Microelectronics, Malta - Guardhouse
- Siegfried, Malta
- Finestral New Factory
- Prime Malta
- Wasteserv, Maghtab – Mechanical Treatment Plant
- Pet Nutrition House Ltd.
- Foster Clark Products Ltd.
- Prestige Cabs
- Portughes Laundry and Dry Cleaning
- Francis Busuttil & Sons Marketing Ltd.
- A.F. Ellis (Marble Works) Ltd.







Company Portfolio – Hospitality Premises

- db Seabank Resort + Spa
- db San Antonio Hotel + Spa
- Sunny Coast Resort & Spa
- The Saint John – A Boutique Hotel, Valletta
- Ursulino, Valletta
- VBL Ltd – Orangerie, The Lucky Star, Lovely House, Palazzo Zoe
- Dolmen Resort Hotel
- Porto Azzurro Aparthotel
- Mellieha Holiday Centre
- The Victoria Hotel, Sliema
- U Collection Boutique Apartments, Valletta
- TunnyNet Complex
- City Centre – St. Julian's







Company Portfolio – Residential Premises

Residential Buildings

- St. Paul's Bay Residential Development – 6No. Luxury Apartments
- Swieqi Residential Development – 67No. Luxury Rental Apartments;
- Kappara Heights Development – 60No. Residential Apartments
- Tigne Development Penthouse
- Residential Villas around Malta
- Various Residential Developments.

Homes for the Elderly

- Mtarfa Home for the Elderly
- Floriana Home for the Elderly
- Casa Paola, Paola, Home for the Elderly
- Saint Vincent de Paul Residence – Long Term Care Facility for the Elderly









Company Portfolio

Historical Buildings

- MUZA, Auberge d'Italie, Valletta
- St. Paul's Catacombs
- Rabat - Gharb Parish Church
- Manoel Theatre

Sports Facilities

- Victor Tedesco Stadium, Hamrun
- Birzebbugia Football Pitch
- Birzebbugia Water Polo Pitch
- Marsascala Water Polo Pitch

Recreational Facilities

- Swieqi Civic Centre
- Bahar ic-Caghaq Recreational area
- The National Water Conservation Awareness Centre – 'Ghajn'



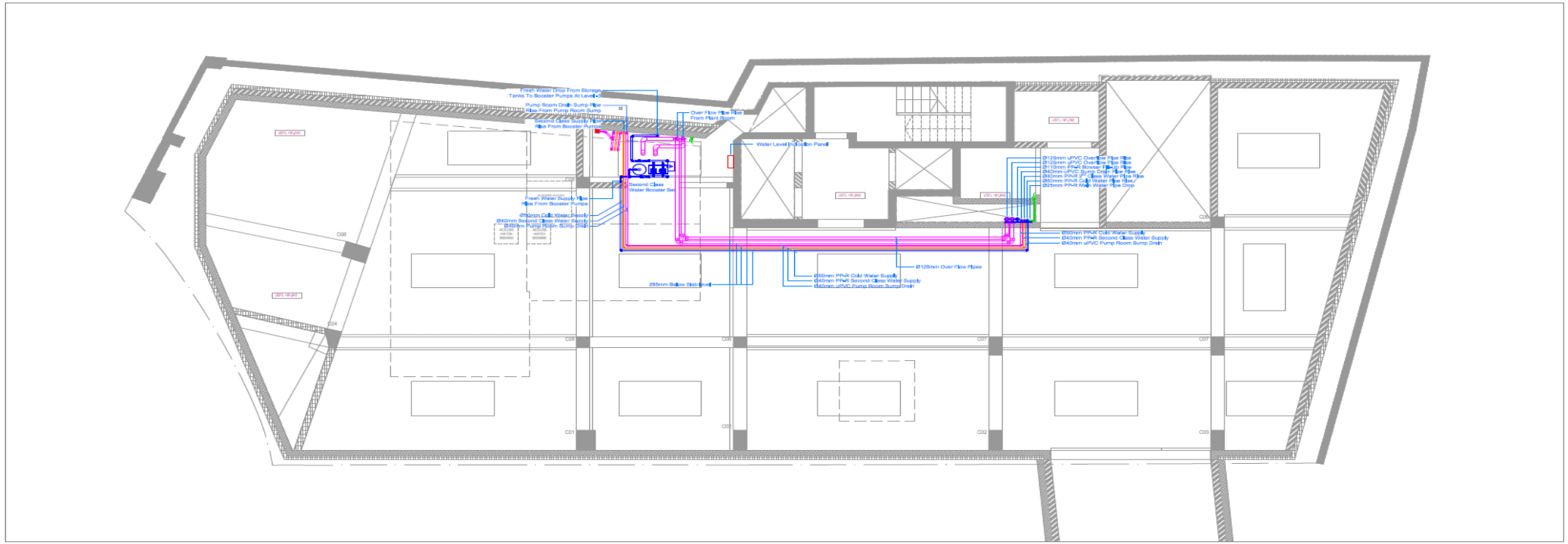






Sample Drawings

BSE



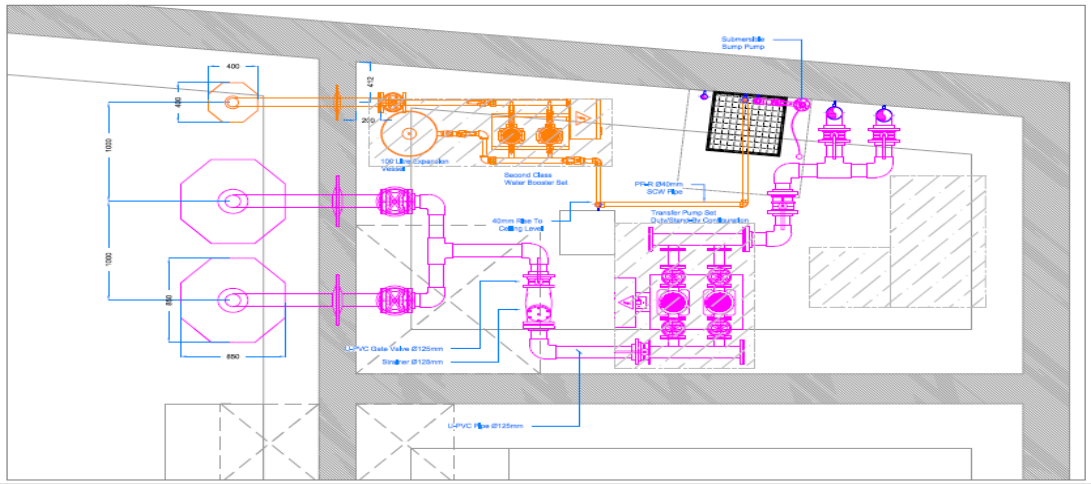
NOTES

1. THIS DRAWING IS TO BE READ WITH THE PROJECT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTATION.
2. CONTRACTOR SHALL COORDINATE WITH ALL OTHER M&E SERVICES.
3. OVER FLOW PIPEWORK AND SUMP DRAINS TO BE IN HIGH PRESSURE uPVC PN 12 PIPEWORK
4. ALL OTHER PLUMBING PIPES TO BE IN PP-R AS PER TENDER SPECIFICATIONS
5. ALL SANITARY WARE TO BE CO_ORDINATED WITH ARCHITECT ON SITE
6. INSTALLERS ARE TO VERIFY DRAWINGS AND REPORT ANY DIFFICULTIES ENCOUNTERED HINDERING INSTALLATION TO THEIR RESPECTIVE SUPERVISOR.
7. WORKING DRAWING ARE BASED ON THE DESIGN BY CLIENTS CONSULTANT AND ARE TO BE APPROVED PRIOR TO EXECUTION ON SITE.

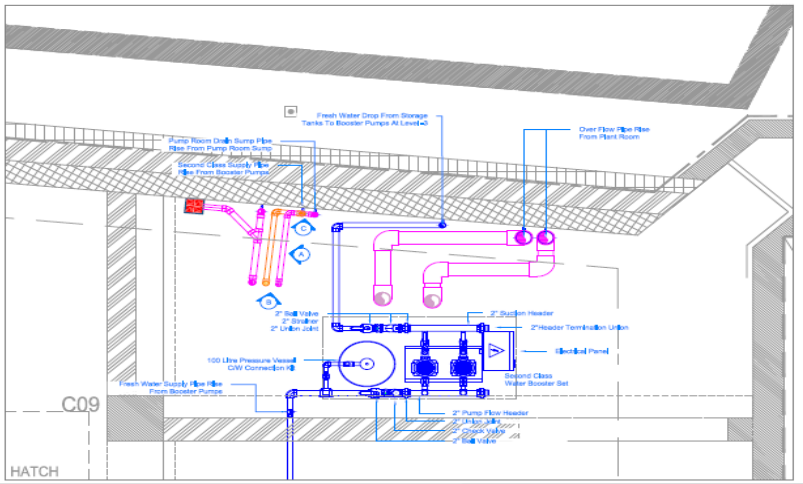
LEGEND - PLUMBING	
M	MAINS WATER METER
	BALL VALVE
	NON-RETURN/CHECK VALVE
	STRAINER
	PIPE DROP/RISE
	DCW - DOMESTIC COLD WATER
	DHW - DOMESTIC HOT WATER
	SCW - SECOND CLASS WATER
	MCW - MAINS COLD WATER

0 0.5 1 2 3 4 5 6 7m
Scale 1:75

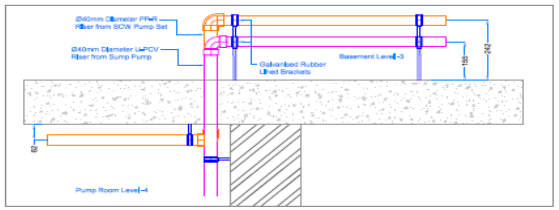
PUMP ROOM LEVEL -4 - SCALE 1:25



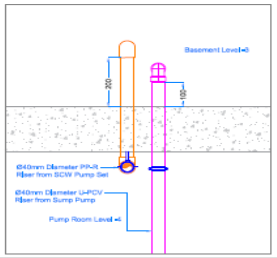
BOOSTER SET AT PUMP ROOM LEVEL -3 - SCALE 1:25



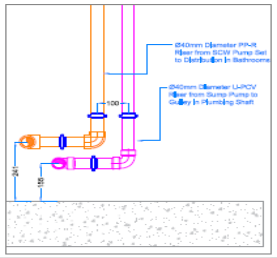
ELEVATION A - SCALE 1:10



ELEVATION B - SCALE 1:10



ELEVATION C - SCALE 1:10

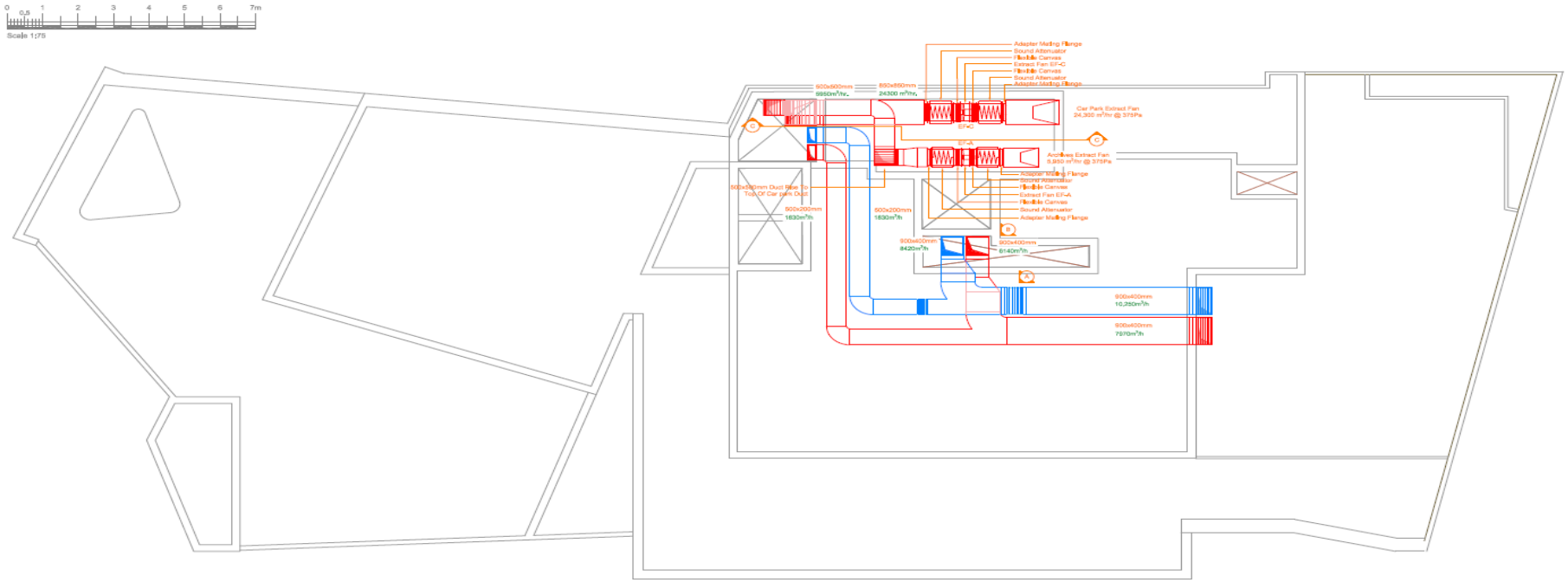


REV	DATE	REVISION DETAILS	BY	CKD

DRAWING STATUS:- N/A	DATE:- 18.04.2017	DRAWN BY:- AC	CHECKED BY:- RC
PROJECT NAME:- BOV HEAD OFFICES EXTENSION ST. VENERA	PROJECT NUMBER:- –	REV:- 00	SIZE:- A1
DRAWING TITLE:- PLUMBING INSTALLATION LAYOUT LEVEL -3	DRAWING NUMBER:- –	SCALE:- 1:75	

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LEGEND - VENTILATION

	DUCTING
	MANUAL VOLUME CONTROL DAMPER
	MOTORISED FIRE DAMPER
	CENTRIFUGAL IN-LINE FAN C/W SILENCERS
FC	FAN CONTROLLER
	EXTRACT AIR GRILLES
	CIRCULAR TYPE AIR EXTRACT VALVE
	WEATHER PROOF LOUVER
	MULTI WAY DIFFUSER
USSL	UNDER SIDE OF SLAB

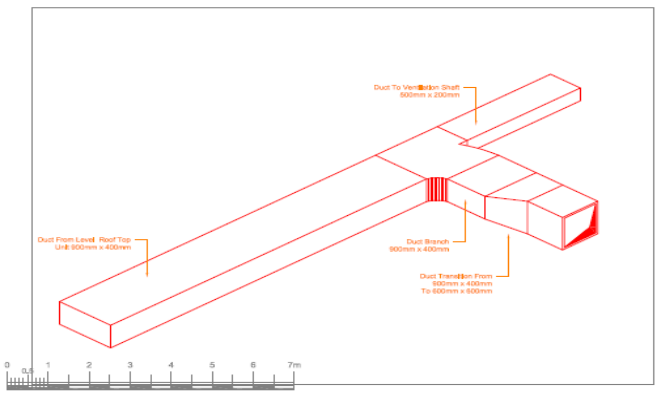
NOTES

1. THIS DRAWING IS TO BE READ WITH THE PROJECT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTATION
2. ALL FANS ARE TO BE INSTALLED C/W A SILENCER BEFORE AND AFTER THE FAN
3. ALL DUCT DIMENSIONS GIVEN ARE INTERNAL DIMENSIONS (WxD SECTION) AND ARE IN (MM)
4. ALL EXTRACT GRILLES SHALL C/W FILTER & MANUFACTURED IN ALUMINIUM
5. ALL DIMENSIONS ARE TAKEN FROM CENTRE OF DUCTWORK
6. BASEMENT CAR PARK VENTILATION MANUFACTURED IN 1.15MM GALVANIZED DUCTING
7. INSTALLERS ARE TO VERIFY DRAWINGS AND REPORT ANY DIFFICULTIES ENCOUNTERED HINDERING INSTALLATION TO THEIR RESPECTIVE SUPERVISOR.
8. DUCT MANUFACTURER IS TO INSPECT SITE AND CHECK NECESSARY MEASUREMENTS PRIOR TO COMMENCEMENT OF MANUFACTURING
9. WORKING DRAWING ARE BASED ON THE DESIGN BY CLIENTSS CONSULTANT AND ARE TO BE APPROVED PRIOR TO EXECUTION ON SITE.

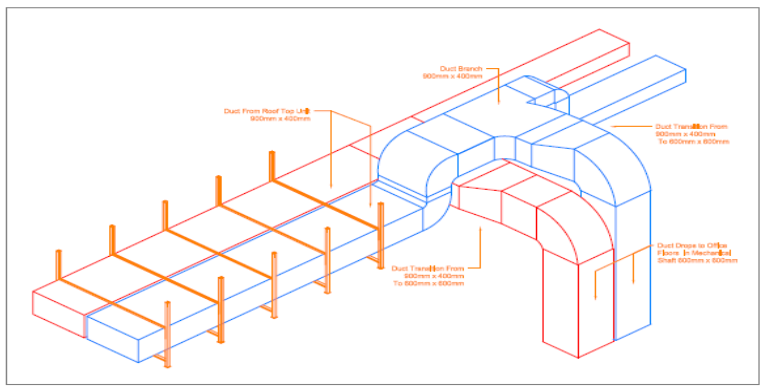
GRILLE SCHEDULE

REFERENCE	TYPE	SIZE (mm)
SD1/2	2-WAY SUPPLY DIFFUSER	SD2C/150x150
SD1/3	3-WAY SUPPLY DIFFUSER	SD3/150x150
SD1/4	4-WAY SUPPLY DIFFUSER	SD4/150x150
SD2/2	2-WAY SUPPLY DIFFUSER	SD2C/225x225
SD2/3	3-WAY SUPPLY DIFFUSER	SD3/225x225
SD2/4	4-WAY SUPPLY DIFFUSER	SD4/225x225
FB1	FIXED BLADE GRILLE	400x100
EG1	EGG CRATE GRILLE	EG/150x150
EG2	EGG CRATE GRILLE	EG/250x250
EG3	EGG CRATE GRILLE	EG/400x200
EG4	EGG CRATE GRILLE	EG/800x200
WL1	EXTERNAL WEATHER LOUVRE	400x300
WL2	EXTERNAL WEATHER LOUVRE	1200x800

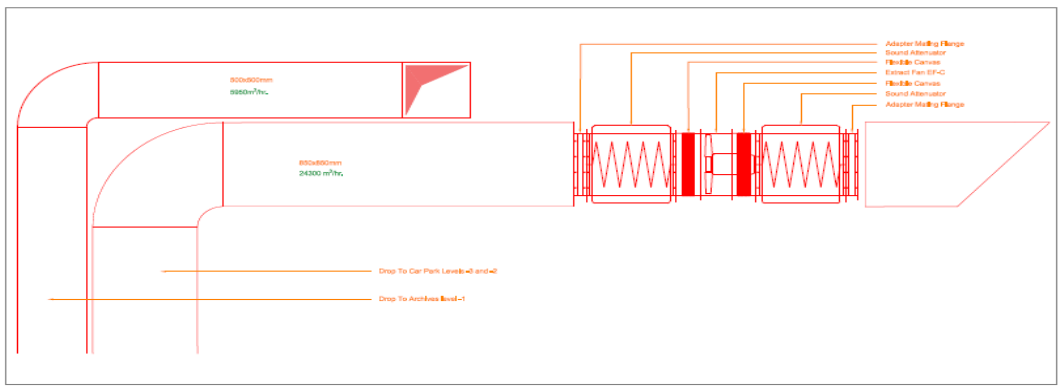
DETAIL A



DETAIL B - SCALE 1:50



SECTION C-C - SCALE 1:25

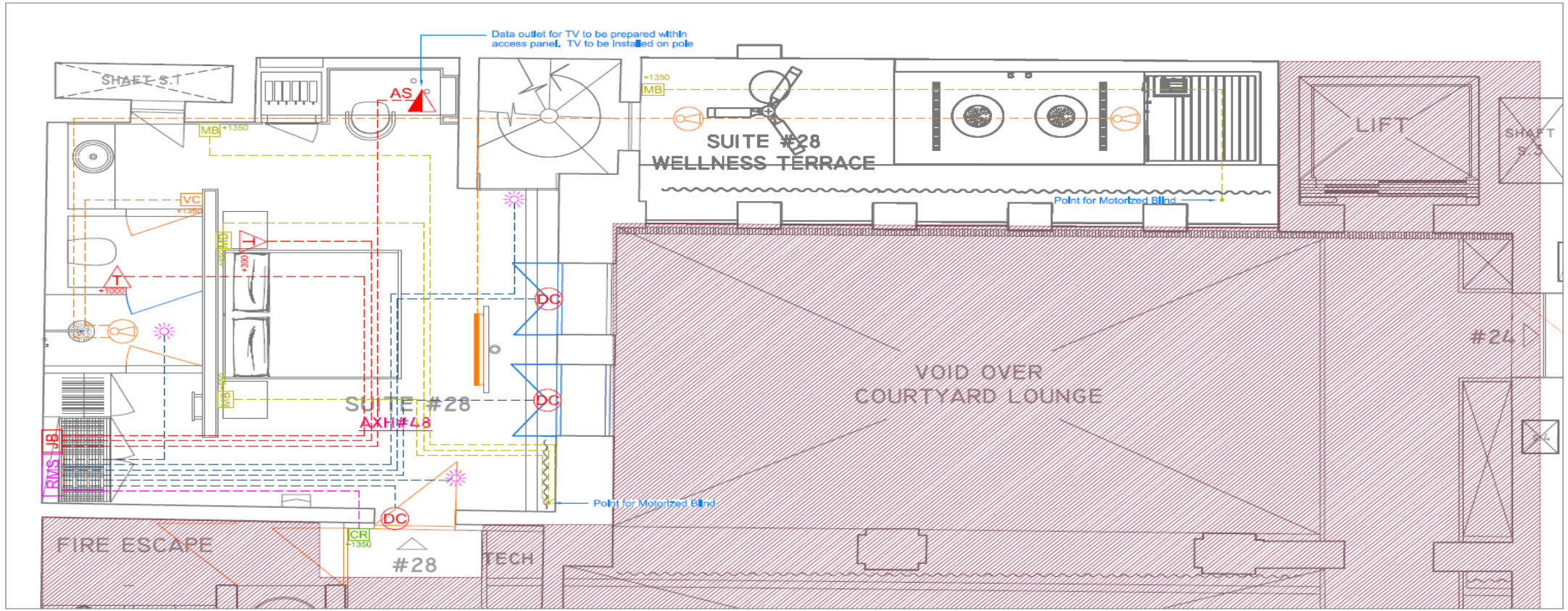


REV	DATE	REVISION DETAILS	BY	CKD

DRAWING STATUS:- N/A	DATE:- 18.04.2017	DRAWN BY:- AC	CHECKED BY:- RC
PROJECT NAME:- BOV HEAD OFFICES EXTENSION ST. VENERA	PROJECT NUMBER:- –	REV:- 00	SIZE:- A1
DRAWING TITLE:- VENTILATION INSTALLATION LAYOUT ROOF LEVEL	DRAWING NUMBER:- –	SCALE:- 1:75	

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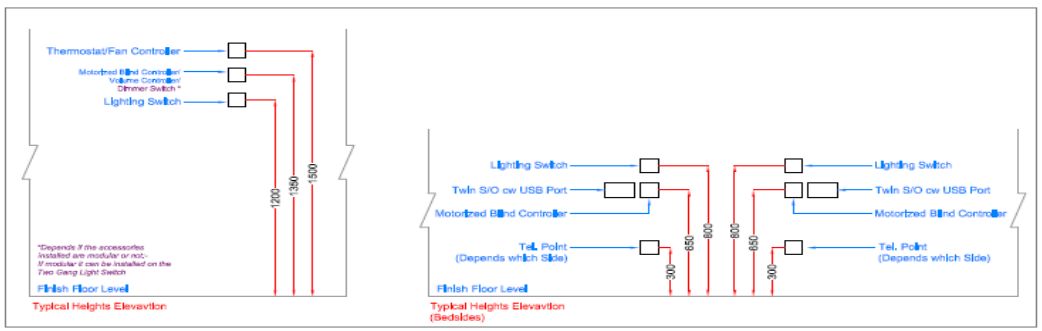
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ROOM 28
Upper Second Floor Level

0 0.5 1 2 3 4 5m

Scale 1:50



NOTES

1. THIS DRAWING IS TO BE READ WITH THE PROJECT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTATION.
2. FINAL POSITIONS OF ALL ELV EQUIPMENT TO BE AGREED ON SITE WITH DESIGNER.
3. INTERNAL ELV WIRING TO BE INSTALLED IN Ø20mm OR Ø25mm CONDUIT FROM CENTRAL DATA CABINET OR MAIN EQUIPMENT AS INDICATED TO FINAL ELV POINTS.
4. DRAWINGS ARE CONCEPTUAL AND FOR USE OF TENDERING PURPOSES ONLY. NO SCALING ALLOWED

REV	DATE	REVISION DETAILS	BY	CKD

LEGEND - EXTRA LOW VOLTAGE

DC	IT RACK
	TELEPHONE POINT
	DATA/TELEPHONE POINT RJ45 X 2 - CAT5e
DC	DOOR CONTACT
JB	JUNCTION BOX
RMS	ROOM MANAGEMENT SYSTEM
MB	MOTORIZED BLIND CONTROLLER
CR	CARD READER
VC	VOLUME CONTROLLER
	SOFFIT RECESSED SPEAKER
	WALL MOUNTED SPEAKER
	SOUNDBAR
	360° SENSOR
	CAT 6 CABLE
	SIGNAL CABLE
	BUS CABLE - TO BE CONNECTED TO SWITCHES
+XXXX	HEIGHT FROM FINISH FLOOR LEVEL

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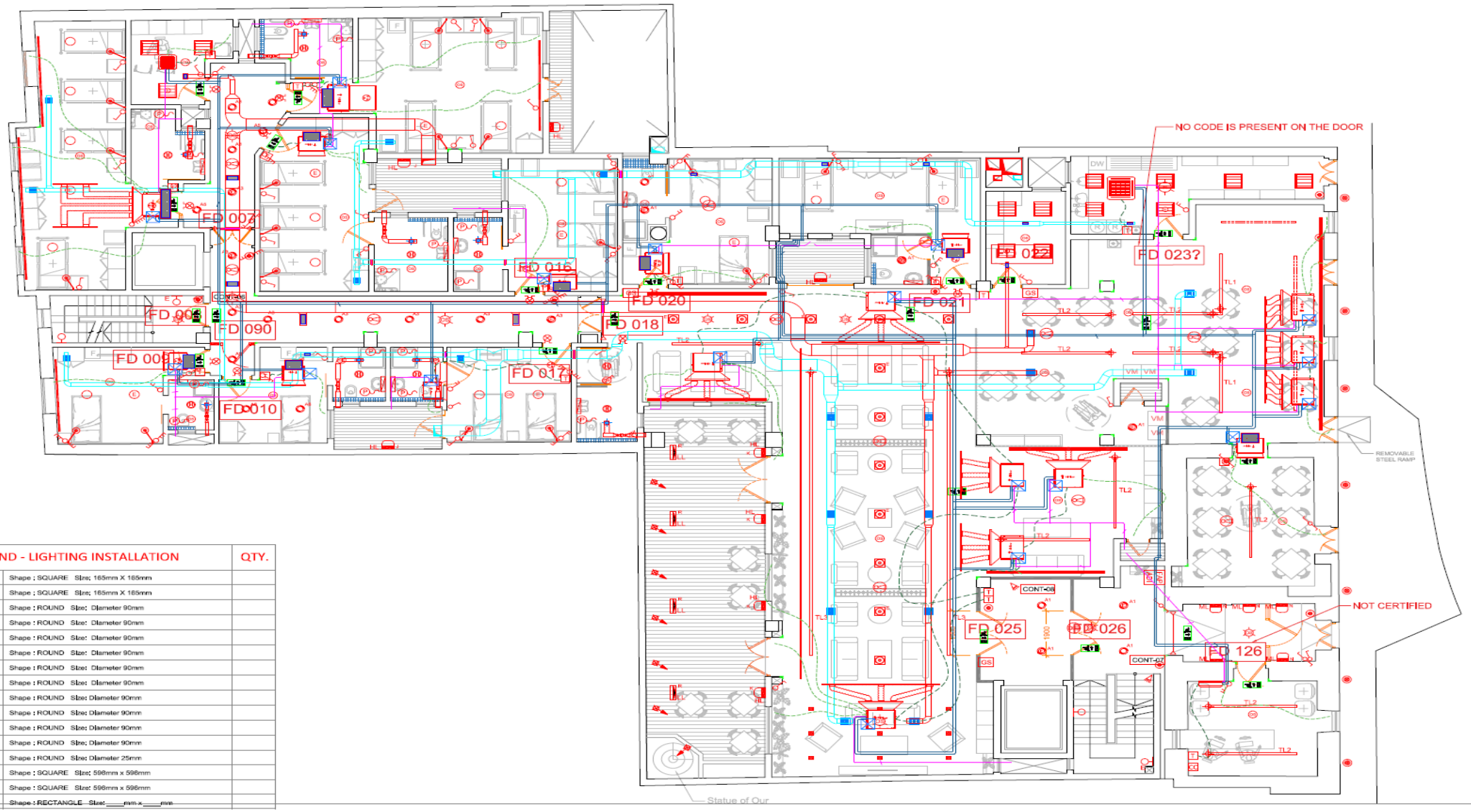
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DATE:	DRAWN BY:	CHECKED BY:
25.06.2017	LC	VR
PROJECT NUMBER:	REV:	SIZE:
–	00	A3
DRAWING NUMBER:	SCALE:	
–	1:50	

DRAWING STATUS
N/A

PROJECT NAME:
PALAZZO MERIKANTI

DRAWING TITLE:
ELV INSTALLATION LAYOUT
TYPICAL ROOM



LEGEND - LIGHTING INSTALLATION		QTY.
A2	Shape : SQUARE Size: 165mm X 165mm	
A2	Shape : SQUARE Size: 165mm X 165mm	
A3	Shape : ROUND Size: Diameter 90mm	
A3	Shape : ROUND Size: Diameter 90mm	
A6	Shape : ROUND Size: Diameter 90mm	
A8	Shape : ROUND Size: Diameter 90mm	
A7	Shape : ROUND Size: Diameter 90mm	
A7	Shape : ROUND Size: Diameter 90mm	
	Shape : ROUND Size: Diameter 90mm	
E	Shape : ROUND Size: Diameter 90mm	
	Shape : ROUND Size: Diameter 90mm	
	Shape : ROUND Size: Diameter 90mm	
S	Shape : ROUND Size: Diameter 25mm	
	Shape : SQUARE Size: 596mm x 596mm	
	Shape : SQUARE Size: 596mm x 596mm	
	Shape : RECTANGLE Size: ____mm x ____mm	

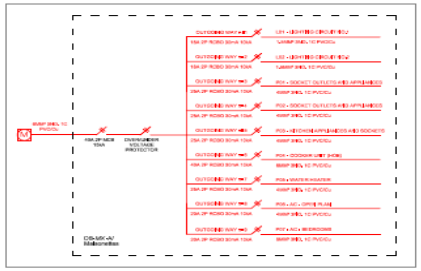
REV	DATE	REVISION DETAILS	BY	CKD

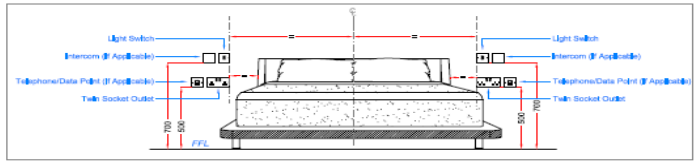
0 0.5 1 2 3 4 5 6 7m
Scale 1:75

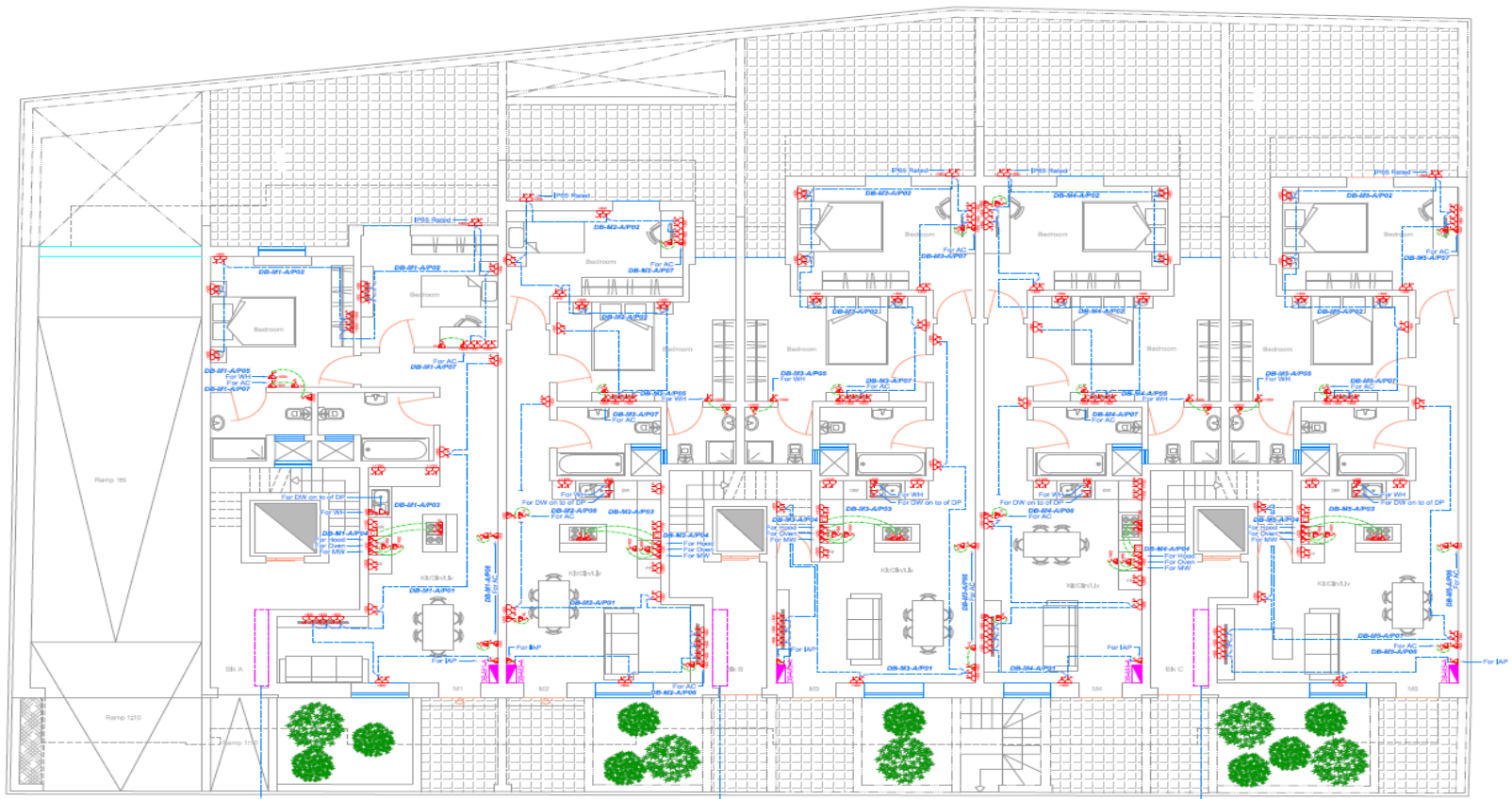
DRAWING STATUS:- N/A	DATE:- 07.04.2016	DRAWN BY: LC	CHECKED BY: VR
PROJECT NAME:- OLD PEOPLE'S HOME PAOLA	PROJECT NUMBER:- –	REV:- 00	SIZE:- A1
DRAWING TITLE:- REFLECTED CEILING PLAN GROUND FLOOR	DRAWING NUMBER:- –	SCALE:- 1:75	

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Proposed Ground Floor

B L O C K A
Enemalta Meters Fort
- Common Parts
- Apartments (13No.)

Main Consumer Units:-
1. Common Parts
2. DB-A01-A
3. DB-A02-A
4. DB-A03-A
5. DB-A04-A
6. DB-A06-A
7. DB-A06-A
8. DB-A07-A
9. DB-A08-A
10. DB-A09-A
11. DB-A10-A
12. DB-A11-A
13. DB-A12-A
14. DB-A13-A

B L O C K B
Enemalta Meters Fort
- Common Parts
- Apartments (12No.)

Main Consumer Units:-
1. Common Parts
2. DB-B01-A
3. DB-B02-A
4. DB-B03-A
5. DB-B04-A
6. DB-B05-A
7. DB-B06-A
8. DB-B07-A
9. DB-B08-A
10. DB-B09-A
11. DB-B10-A
12. DB-B11-A
13. DB-B12-A

B L O C K C
Enemalta Meters Fort
- Common Parts
- Apartments (13No.)

Main Consumer Units:-
1. Common Parts
2. DB-C01-A
3. DB-C02-A
4. DB-C03-A
5. DB-C04-A
6. DB-C05-A
7. DB-C06-A
8. DB-C07-A
9. DB-C08-A
10. DB-C09-A
11. DB-C10-A
12. DB-C11-A
13. DB-C12-A
14. DB-C13-A

0 0.5 1 2 3 4 5 6 7m
Scale 1:75

REV	DATE	REVISION DETAILS	BY	CKD

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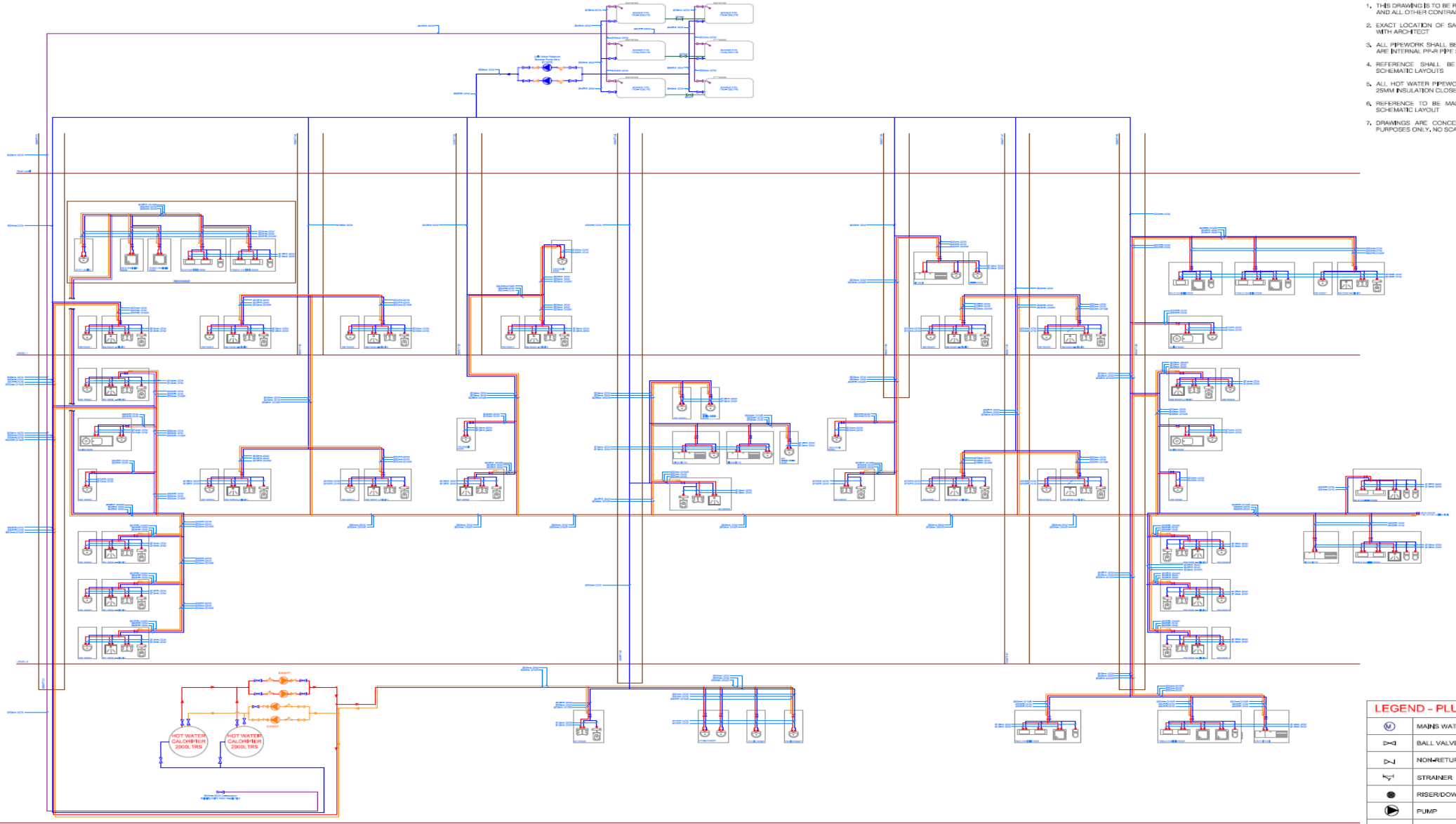
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DATE:	DRAWN BY:	CHECKED BY:
22.03.2018	LC	RC
PROJECT NUMBER:	REV:	SIZE:
–	00	A1
DRAWING NUMBER:	SCALE:	
–	1:75	

DRAWING STATUS:-
N/A

PROJECT NAME:-
QAWRA APARTMENTS

DRAWING TITLE:-
POWER INSTALLATION LAYOUT
GROUND FLOOR



NOTES:-

1. THIS DRAWING IS TO BE READ WITH THE PROJECT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTATION.
2. EXACT LOCATION OF SANITARY WARE SHALL BE COORDINATED WITH ARCHITECT
3. ALL PIPEWORK SHALL BE PP-R SDR 7.4 TYPE AND SIZES SHOWN ARE INTERNAL PP-R PIPE SIZES
4. REFERENCE SHALL BE MADE TO THE TYPICAL PLUMBING SCHEMATIC LAYOUTS
5. ALL HOT WATER PIPEWORK SHALL BE INSULTED WITH MINIMUM 25MM INSULATION CLOSED CELL TYPE - CLASS O
6. REFERENCE TO BE MADE TO THE HOT WATER GENERATION SCHEMATIC LAYOUT
7. DRAWINGS ARE CONCEPTUAL AND FOR USE OF TENDERING PURPOSES ONLY. NO SCALING ALLOWED

LEGEND - PLUMBING

M	MAINS WATER METER
	BALL VALVE
	NON-RETURN/CHECK VALVE
	STRAINER
	RISER/DOWNDROP
	PUMP
	DCW - DOMESTIC COLD WATER
	DHW - DOMESTIC HOT WATER
	DHWR - DOMESTIC HOT WATER RETURN

0 0.5 1 2 3 4 5 10 15m

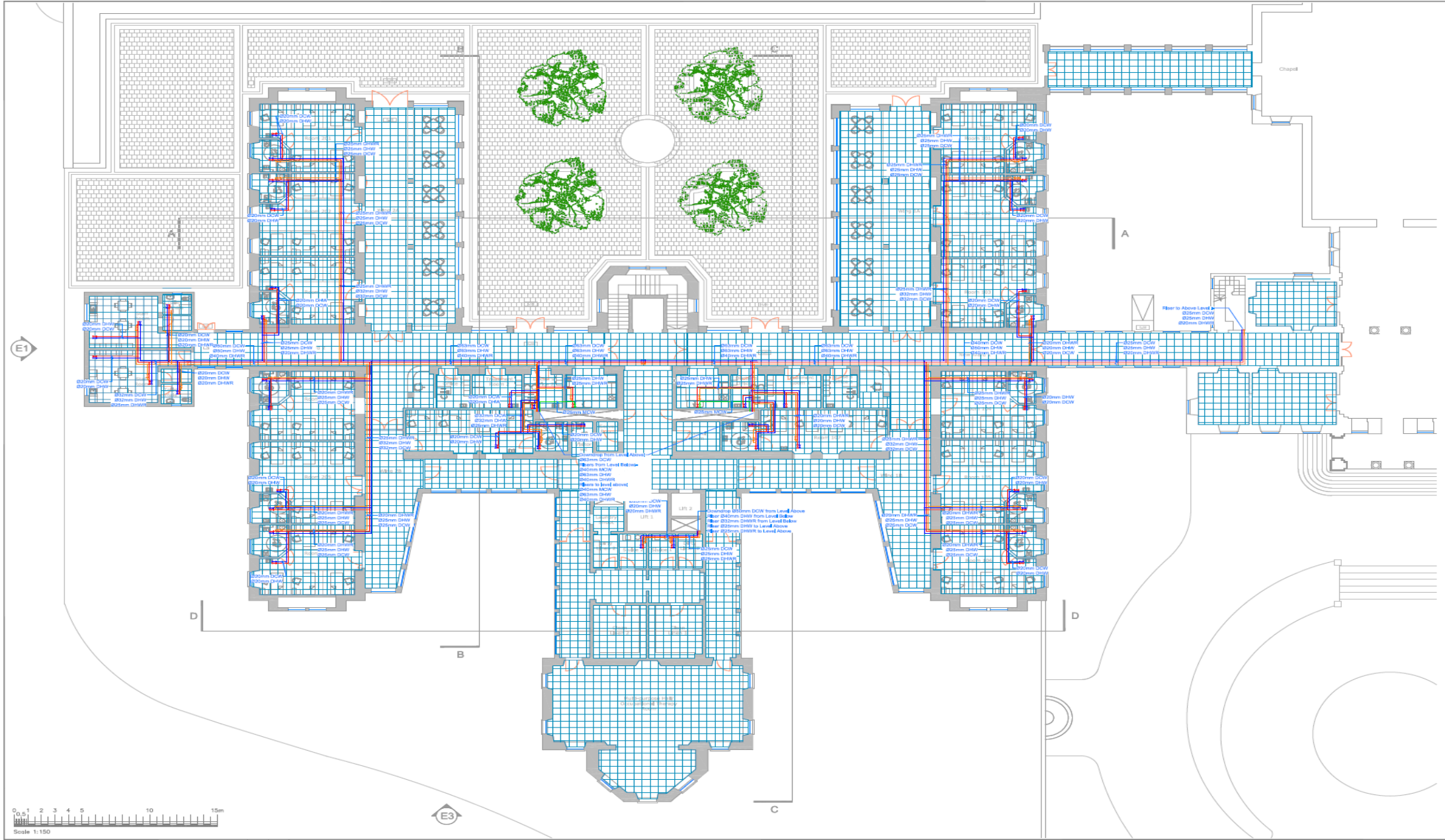
Scale 1:150

REV	DATE	REVISION DETAILS	BY	CKD

DRAWING STATUS:- N/A	DATE:- 22.03.2016	DRAWN BY:- LC	CHECKED BY:- RC
PROJECT NAME:- SVPR - RUZAR BRIFFA	PROJECT NUMBER:- –	REV:- 00	SIZE:- A1
DRAWING TITLE:- PLUMBING SCHEMATIC LAYOUT	DRAWING NUMBER:- –	SCALE:- 1:150	

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6. REFERENCE TO BE MADE TO THE HOT WATER GENERATION SCHEMATIC LAYOUT
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LEGEND – PLUMBING

M	MAINS WATER METER
	BALL VALVE
	NON-RETURN/CHECK VALVE
	STRAINER
	RISER/DOWNDROP
	PUMP
	DCW - DOMESTIC COLD WATER
	DHW - DOMESTIC HOT WATER
	DHWR - DOMESTIC HOT WATER RETURN

REV	DATE	REVISION DETAILS	BY	CKD

DRAWING STATUS:- N/A	DATE:- 22.03.2016	DRAWN BY:- LC	CHECKED BY:- RC
PROJECT NAME:- SVPR - RUZAR BRIFFA	PROJECT NUMBER:- –	REV:- 00	SIZE:- A1
DRAWING TITLE:- PLUMBING INSTALLATION LAYOUT GROUND FLOOR	DRAWING NUMBER:- –	SCALE:- 1:150	

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