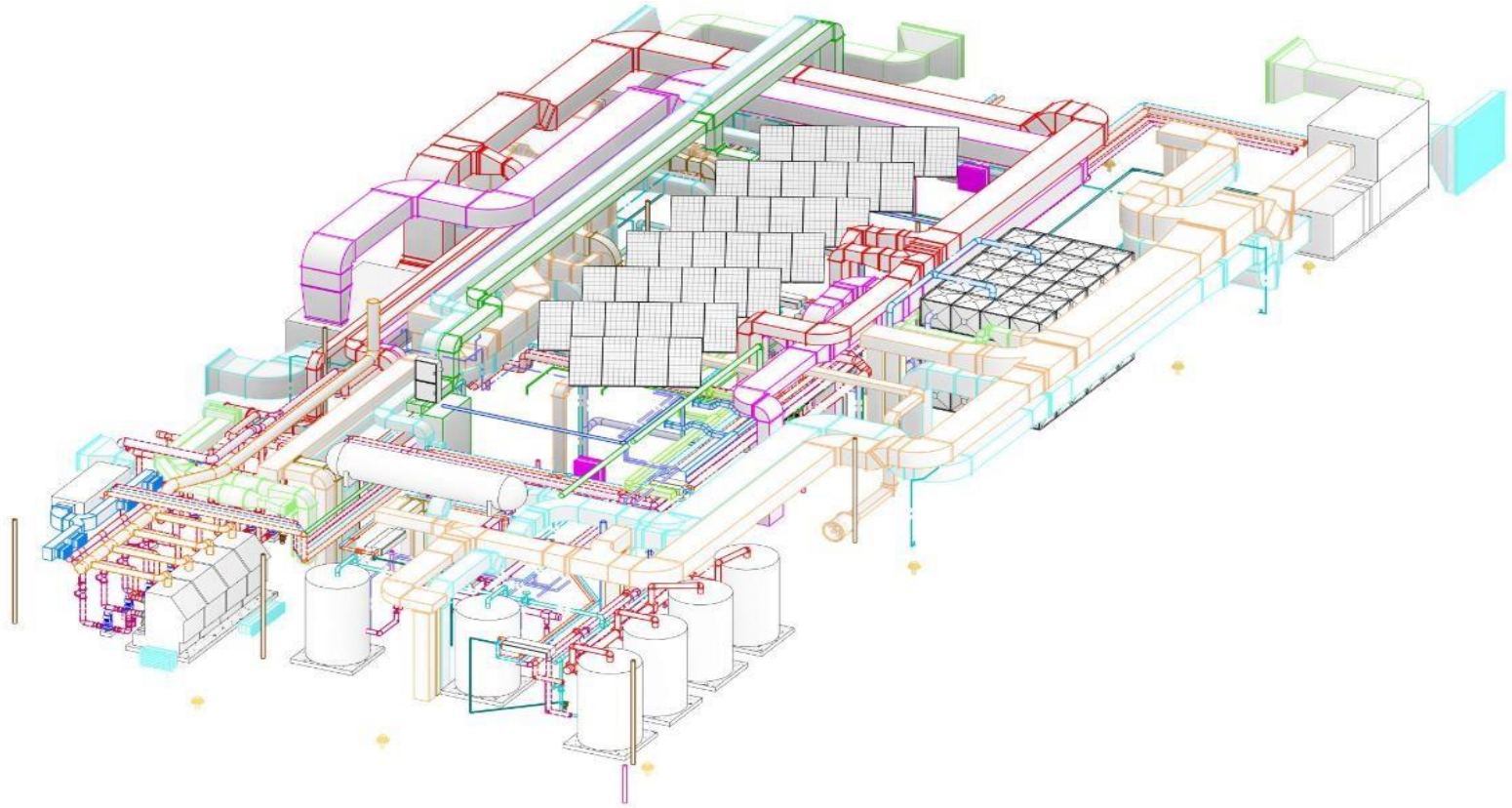
SILICON
Engineering Consultants Ltd

MEPF PROFILE



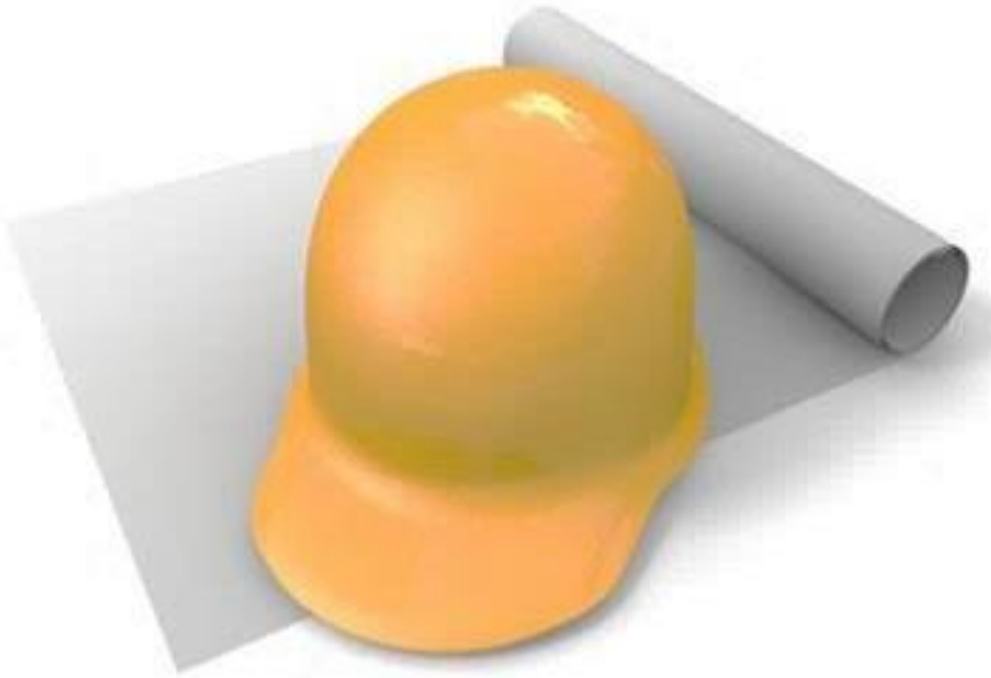
Email ID: info@siliconec.co.nz, panchal@siliconec.com.nz

Website: www.siliconec.co.nz

SILICON
Engineering Consultants Ltd

EXPERTISE

- Structural Engineering
- Architectural Planning
- Civil Engineering
- Infrastructure Planning
- HVAC Engineering
- Electrical Engineering
- Plumbing/Piping and Fire
- Urban Planning
- Estimate and Tendering



SILICON
Engineering Consultants Ltd

SOFTWARE EXPERTISE

AUTODESK 3DS MAX

AUTODESK AUTOCAD

AUTODESK CIVIL3D

AUTODESK INVENTOR

AUTODESK NAVISWORKS

AUTODESK RECAP

AUTODESK REVIT

AUTODESK SHOWCASE

DSTEEL

AUTODESK INFRAWORKS 360

SOLIDWORKS

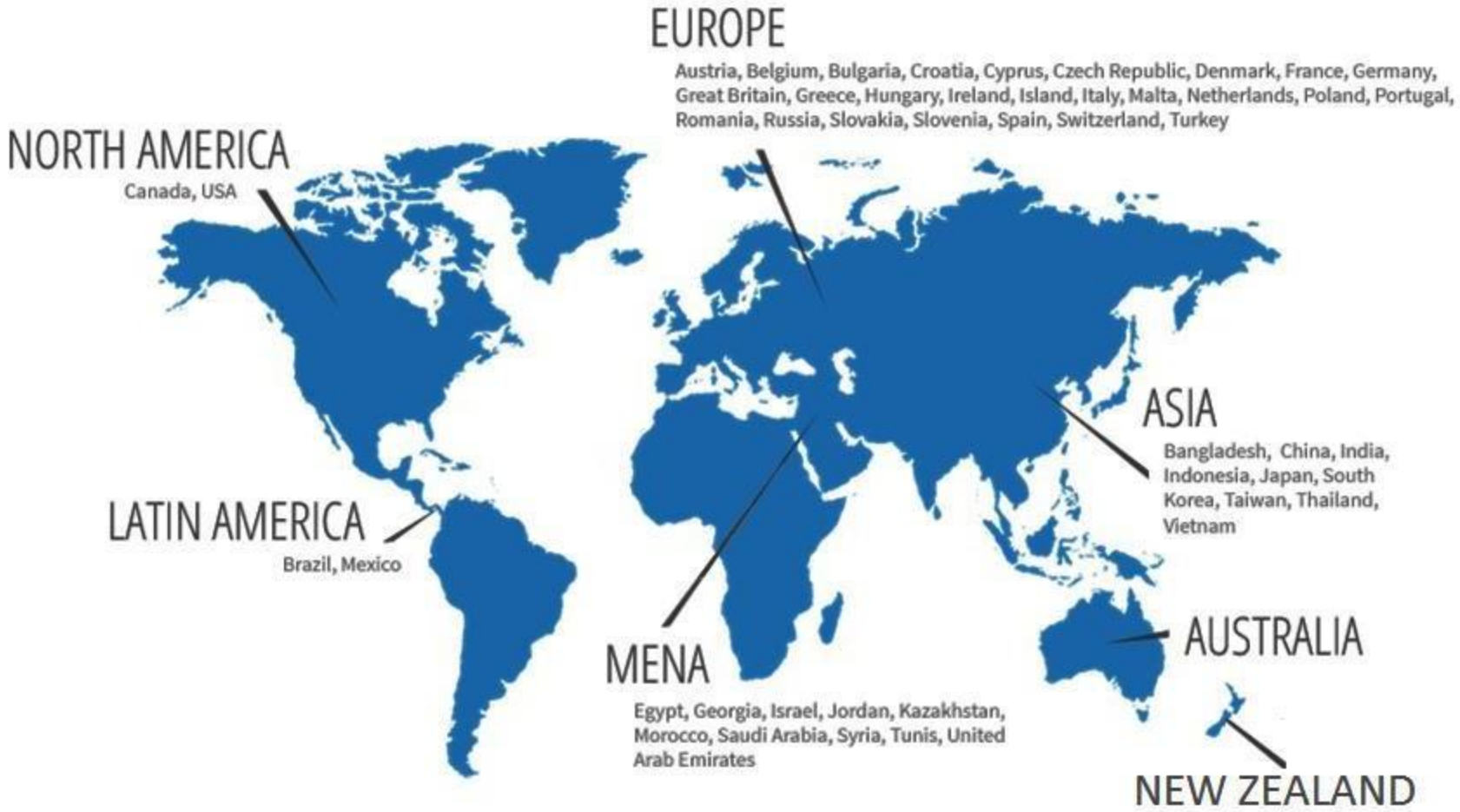
STAAD.Pro

TEKLA

ZWCAD

SILICON
Engineering Consultants Ltd

SILICON'S GLOBAL PRESENCE



SILICON
Engineering Consultants Ltd

BENEFITS TO YOU

SILICON
Engineering Consultants Ltd

RANGE OF SERVICES

- MEPF DESIGNING
- MEPF SHOP DRAWING
- MEPF MODELING

SILICON
Engineering Consultants Ltd

MEPF PROJECTS

SILICON
Engineering Consultants Ltd

MEPF PROJECTS

CLIENT NAME: EBERT CONSTRUCTION / AMBIENT PROJECTS LTD.

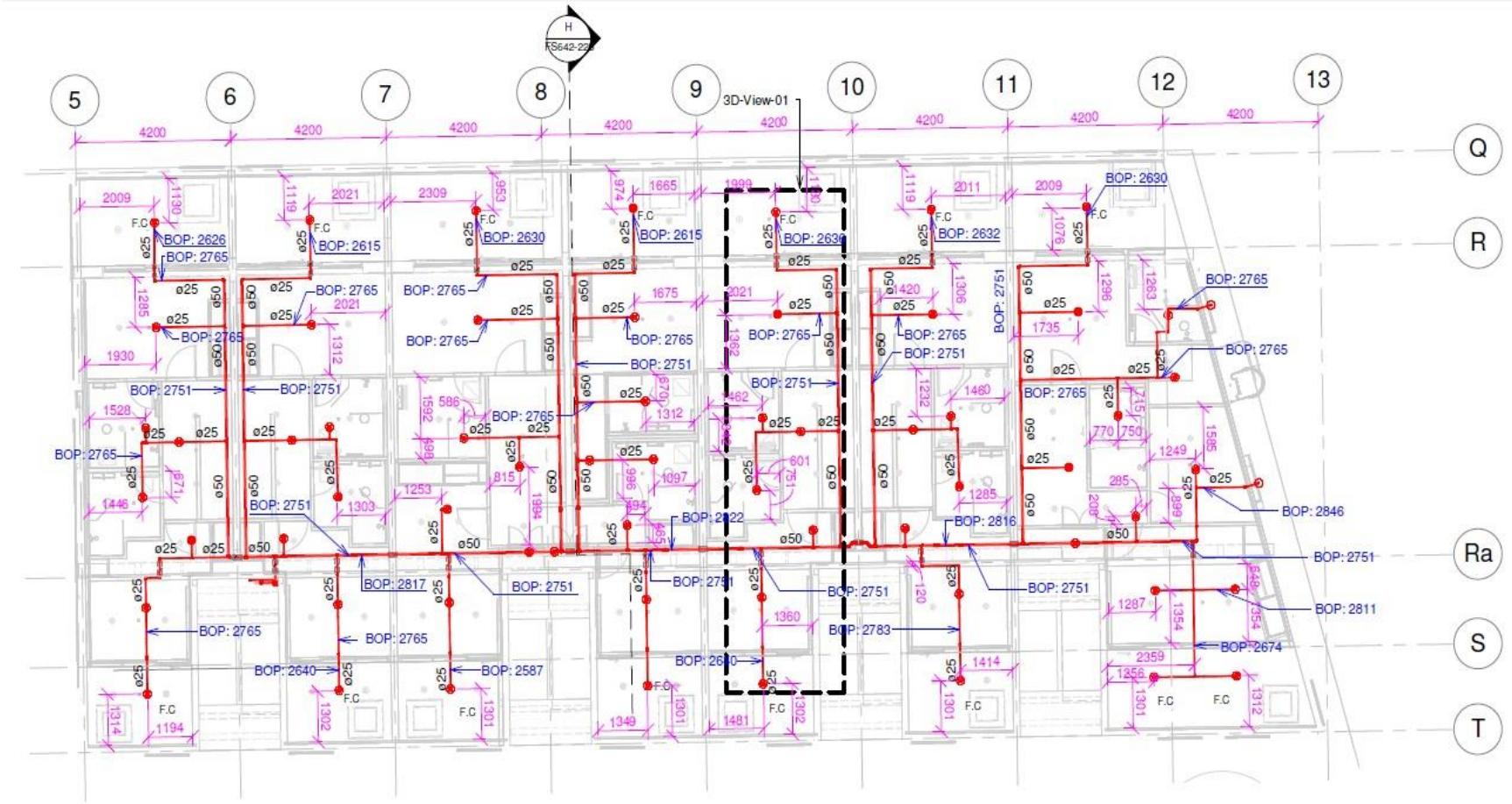
PROJECT NAME: UNION GREEN APARTMENTS, NEW ZEALAND

PROJECT DESCRIPRION: HVAC FIRE PROTECTION CO-ORDINATED SHOP DRAWINGS

PROJECT DURATION: 2018

SILICON
Engineering Consultants Ltd

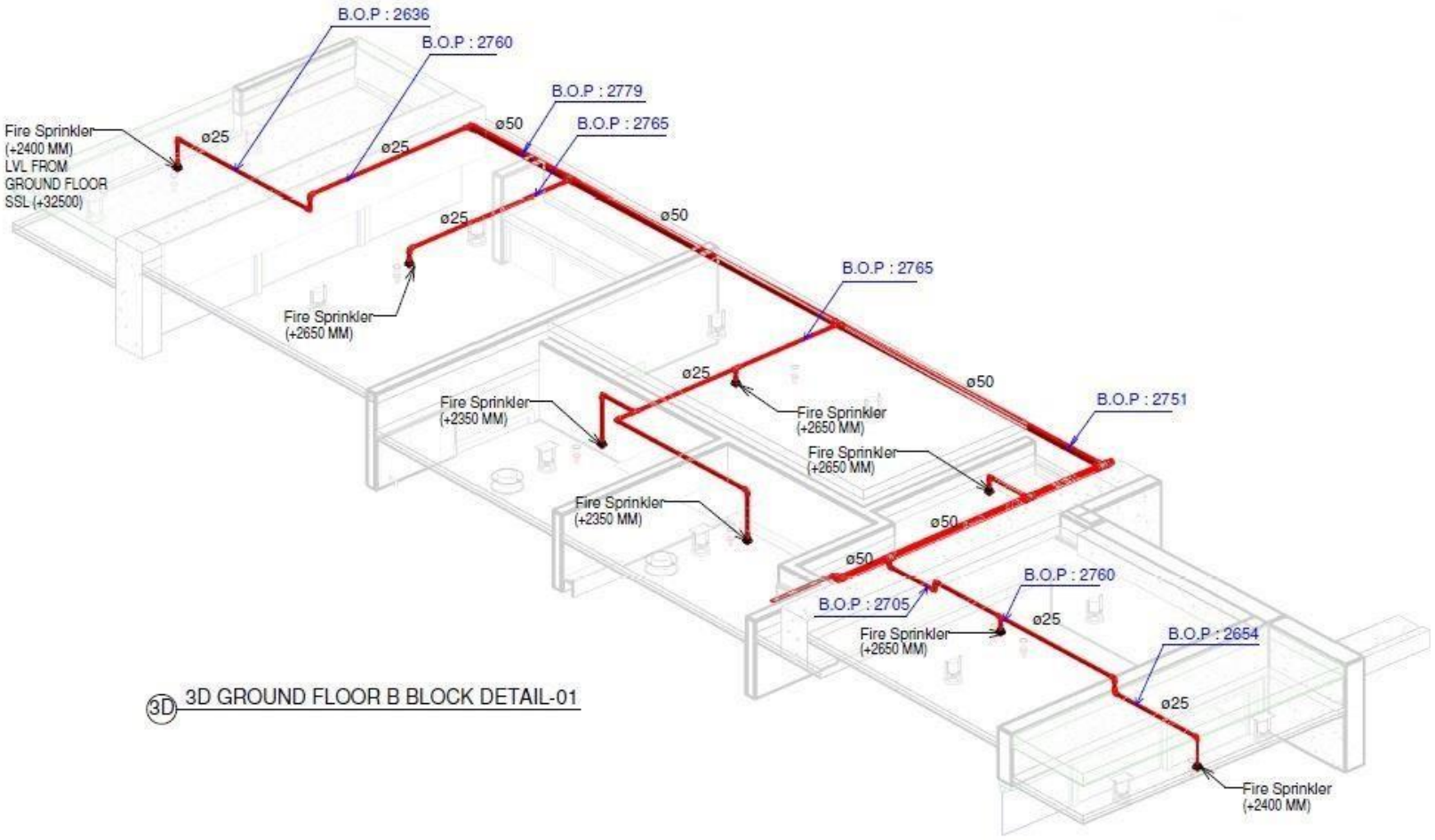
FIRE-PROTECTION GROUND FLOOR PLAN



1 Fire Protection Ground Floor Block-B
1 : 100

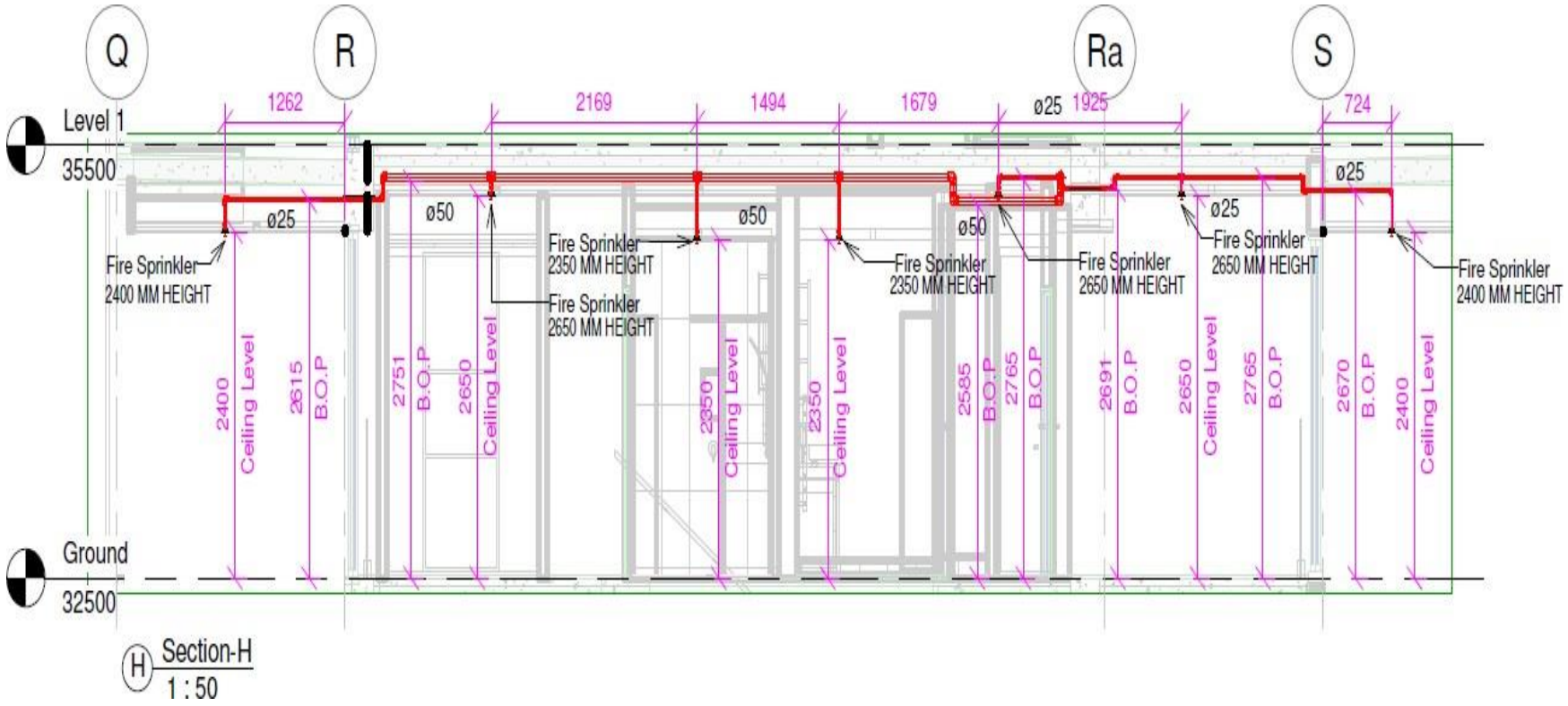
SILICON
Engineering Consultants Ltd

3D GROUND FLOOR B BLOCK DETAIL-01



SILICON
Engineering Consultants Ltd

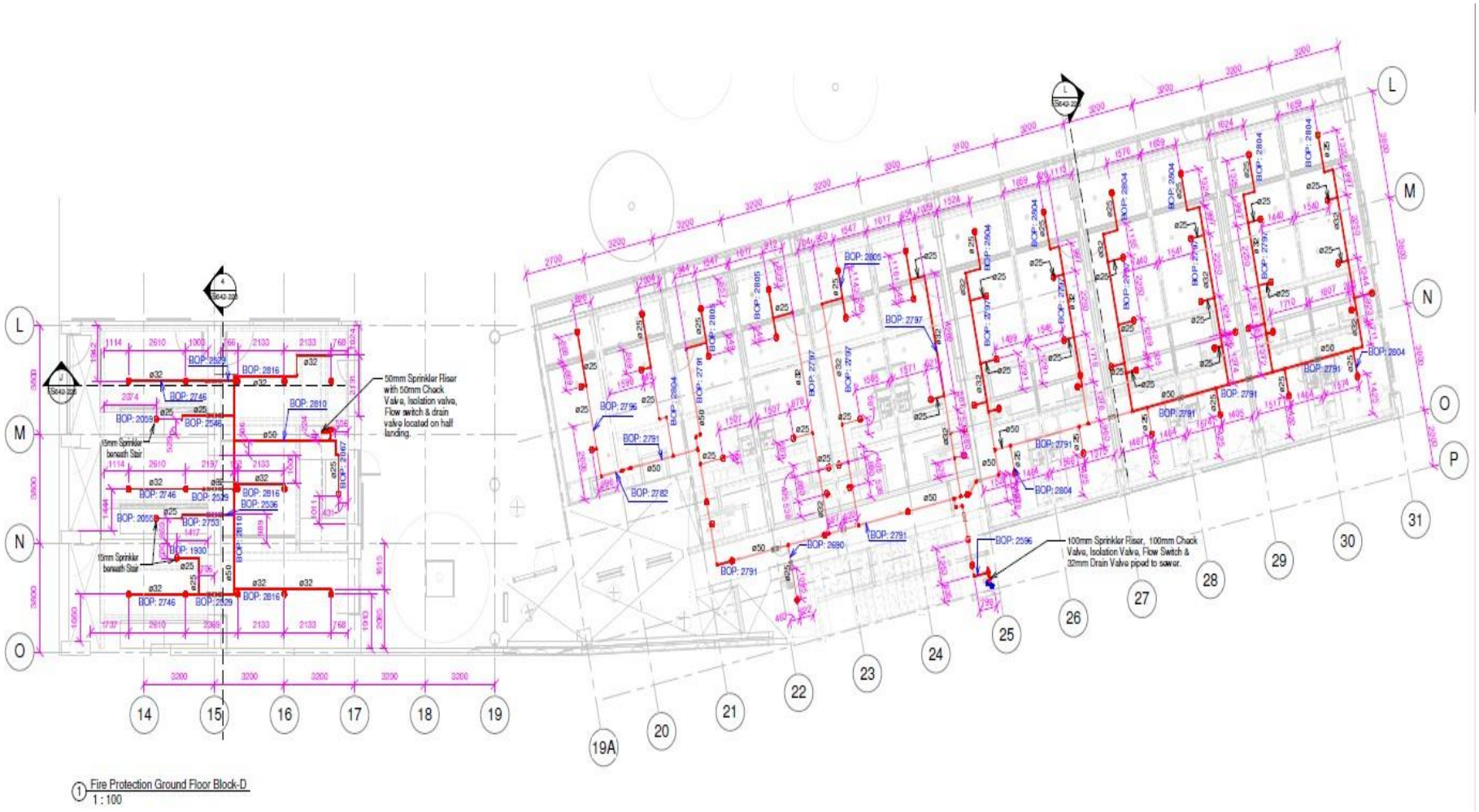
SECTION H DETAIL



H Section-H
1 : 50

SILICON
Engineering Consultants Ltd

FIRE-PROTECTION GROUND FLOOR PLAN
BLOCK-D



1 Fire Protection Ground Floor Block-D
1 : 100

SILICON
Engineering Consultants Ltd

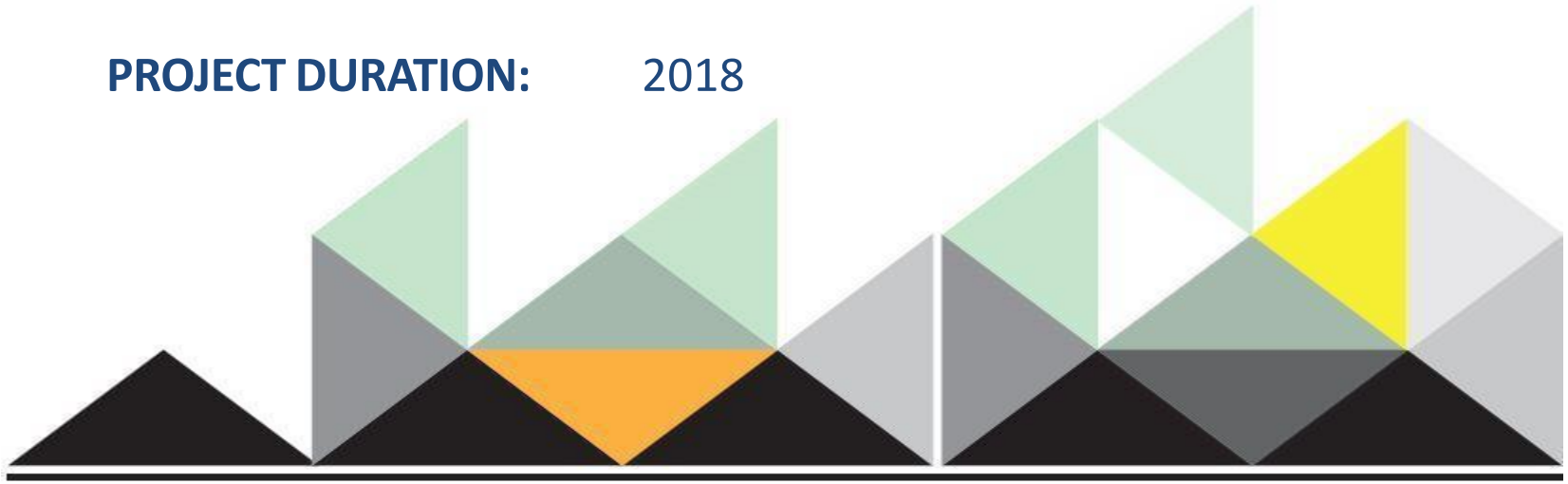
MEPF PROJECTS

CLIENT NAME: AMBIENT PROJECTS LTD.

PROJECT NAME: THE CROSSING BUILDING 4 EXTENSION HIGHBROOK (QUEST HOTEL), NEW ZEALAND

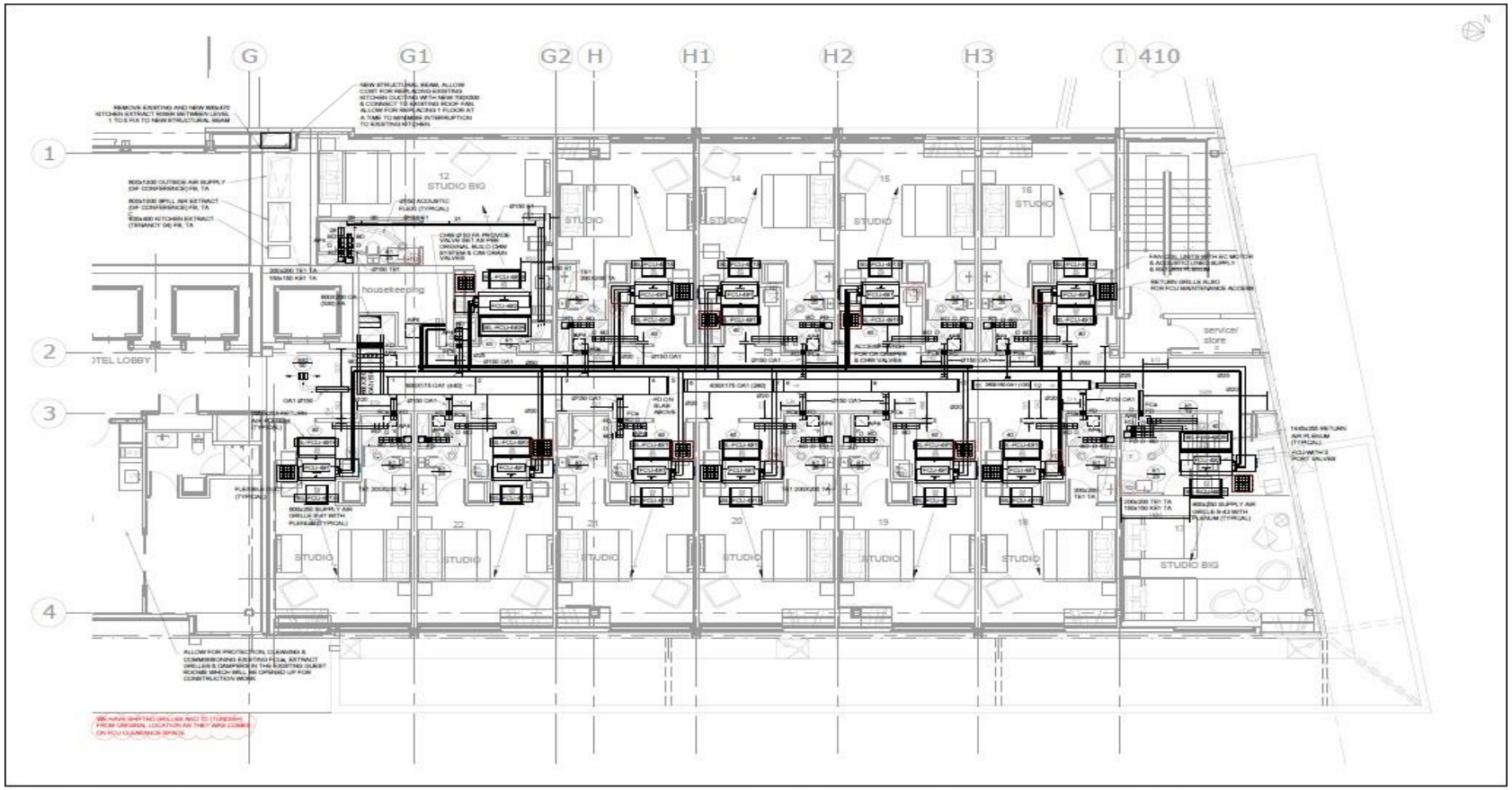
PROJECT DESCRIPTION: HVAC SHOP DRAWING

PROJECT DURATION: 2018



SILICON
Engineering Consultants Ltd

LEVEL 1 PLAN



REV	AMENDMENTS	ENG.	CAD	DATE

PROJECT TITLE: THE CROSSING BUILDING 4 EXTENSION HIGHBROOK

SHEET TITLE: LEVEL 1 PLAN

DESIGNED	Designer	
DRAWN	Drawn	
CHECKED	Checked	

DISCIPLINE: MECHANICAL SERVICES

PROJECT: 216543

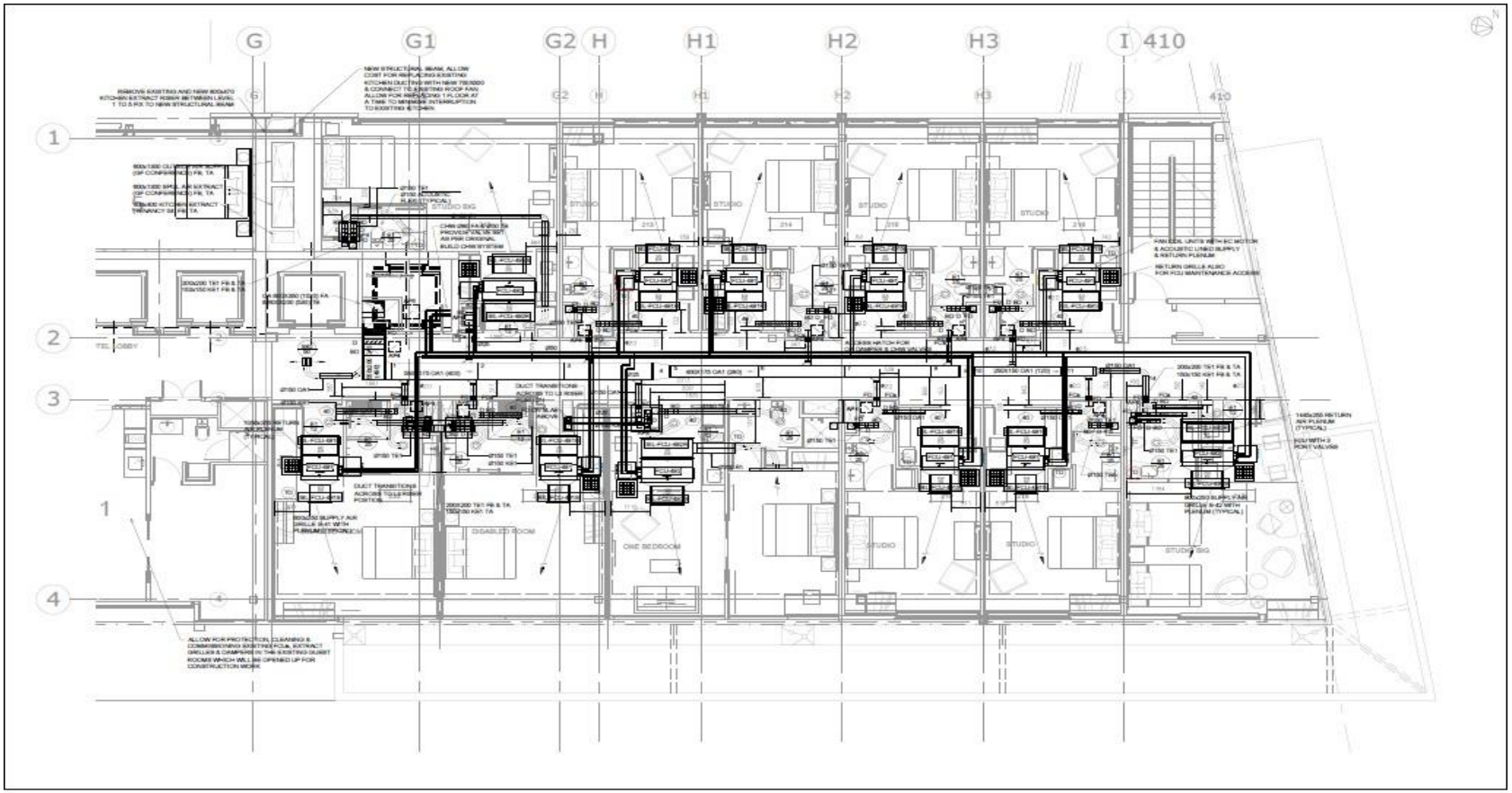
DRAWING: M110

SCALE (A1 ORIGINAL): A1(50)

REVISION:

SILICON
Engineering Consultants Ltd

LEVEL 2 PLAN



REV	AMENDMENTS	ENG.	CAD	DATE

PROJECT TITLE: THE CROSSING BUILDING 4 EXTENSION HIGHBROOK

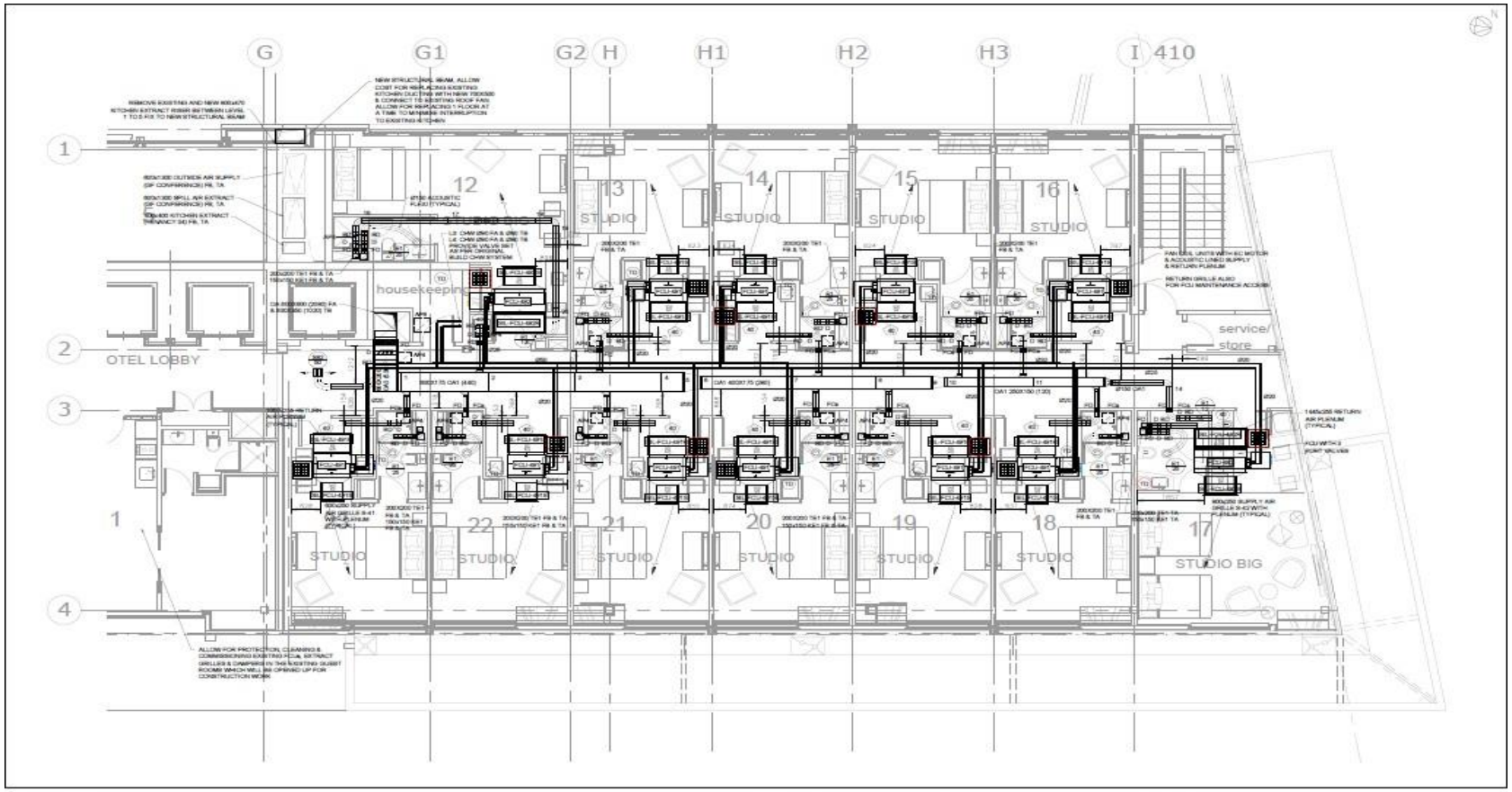
SHEET TITLE: LEVEL 2 PLAN

DESIGNED	Designer	
DRAWN	Drawn	
CHECKED	Checked	
DISCIPLINE	MECHANICAL SERVICES	

PROJECT	DRAWING
216543	M120
SCALE (A1 ORIGINAL)	REVISION
A1(50)	

SILICON
Engineering Consultants Ltd

LEVEL 3-4 PLAN

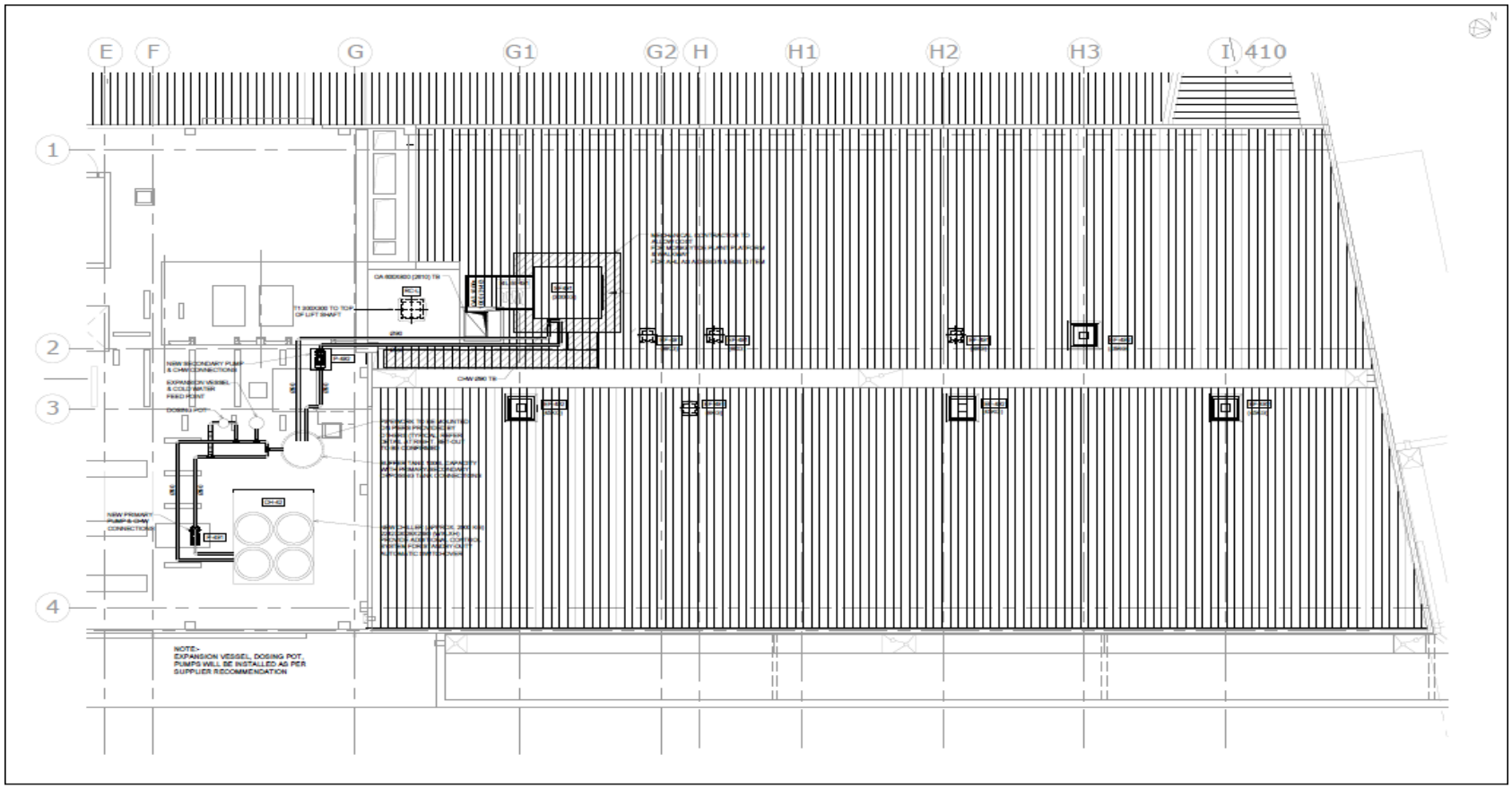


REV.	AMENDMENTS	ENG.	CAD	DATE

PROJECT TITLE	THE CROSSING BUILDING 4 EXTENSION HIGHBROOK	SHEET TITLE	LEVEL 3-4 PLAN	
DESIGNED	Designer		PROJECT	DRAWING
DRAWN	Drawn		216543	M130
CHECKED	Checked			
DISCIPLINE	MECHANICAL SERVICES		SCALE (A1 ORIGINAL)	REVISION
			A1(50)	

SILICON
Engineering Consultants Ltd

ROOF PLAN



REV	AMENDMENTS	ENG.	CAD	DATE

PROJECT TITLE: THE CROSSING BUILDING 4 EXTENSION HIGHBROOK

SHEET TITLE: ROOF PLAN

DESIGNED	Designer	
DRAWN	Drawn	
CHECKED	Checked	
DISCIPLINE	MECHANICAL SERVICES	

PROJECT	DRAWING
216543	M160
SCALE (A1 ORIGINAL)	REVISION
A1(50)	

SILICON
Engineering Consultants Ltd

MEPF PROJECTS

CLIENT NAME: CIVIL MATRIXCO

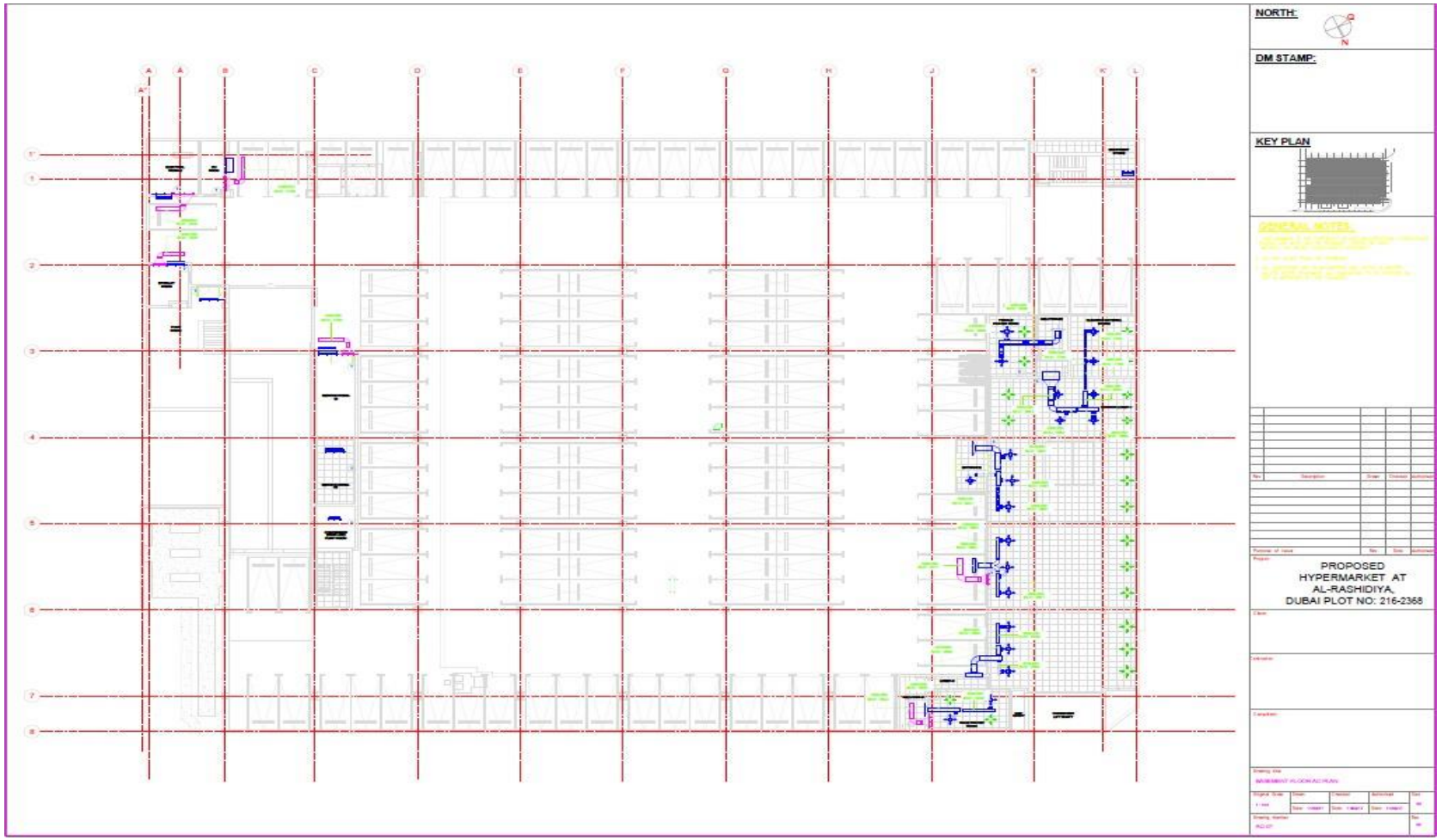
PROJECT NAME: PROPOSED HYPERMARKET AT AL-RASHIDIYA, DUBAI

PROJECT DESCRIPTION: MEPF MODELING COMPRISING THE 11 CO-ORDINATED SERVICES FOR THREE STOREY UP TO LOD 350.

PROJECT DURATION: 2017-2018

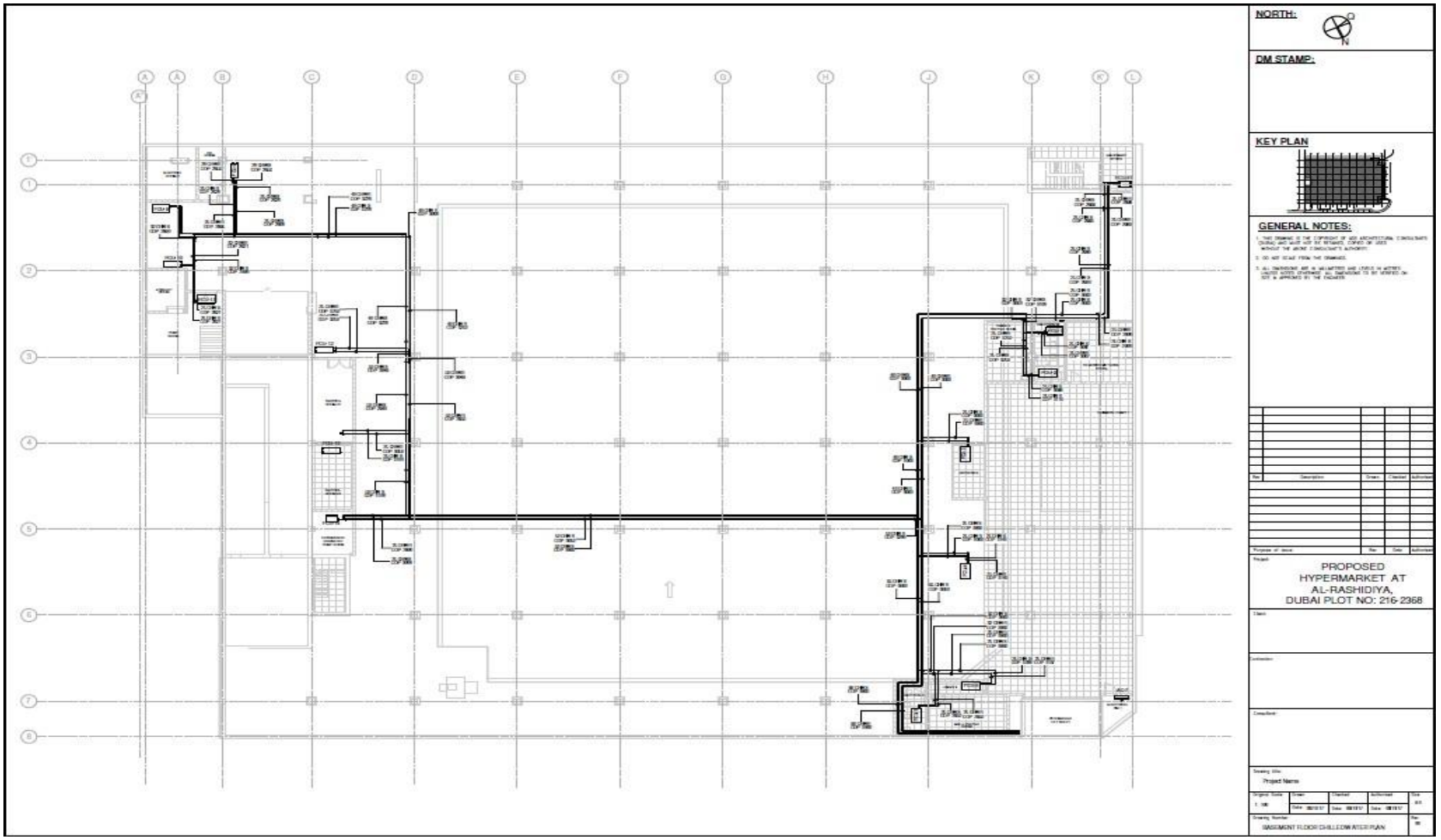
SILICON
Engineering Consultants Ltd

BASEMENT FLOOR AC PLAN



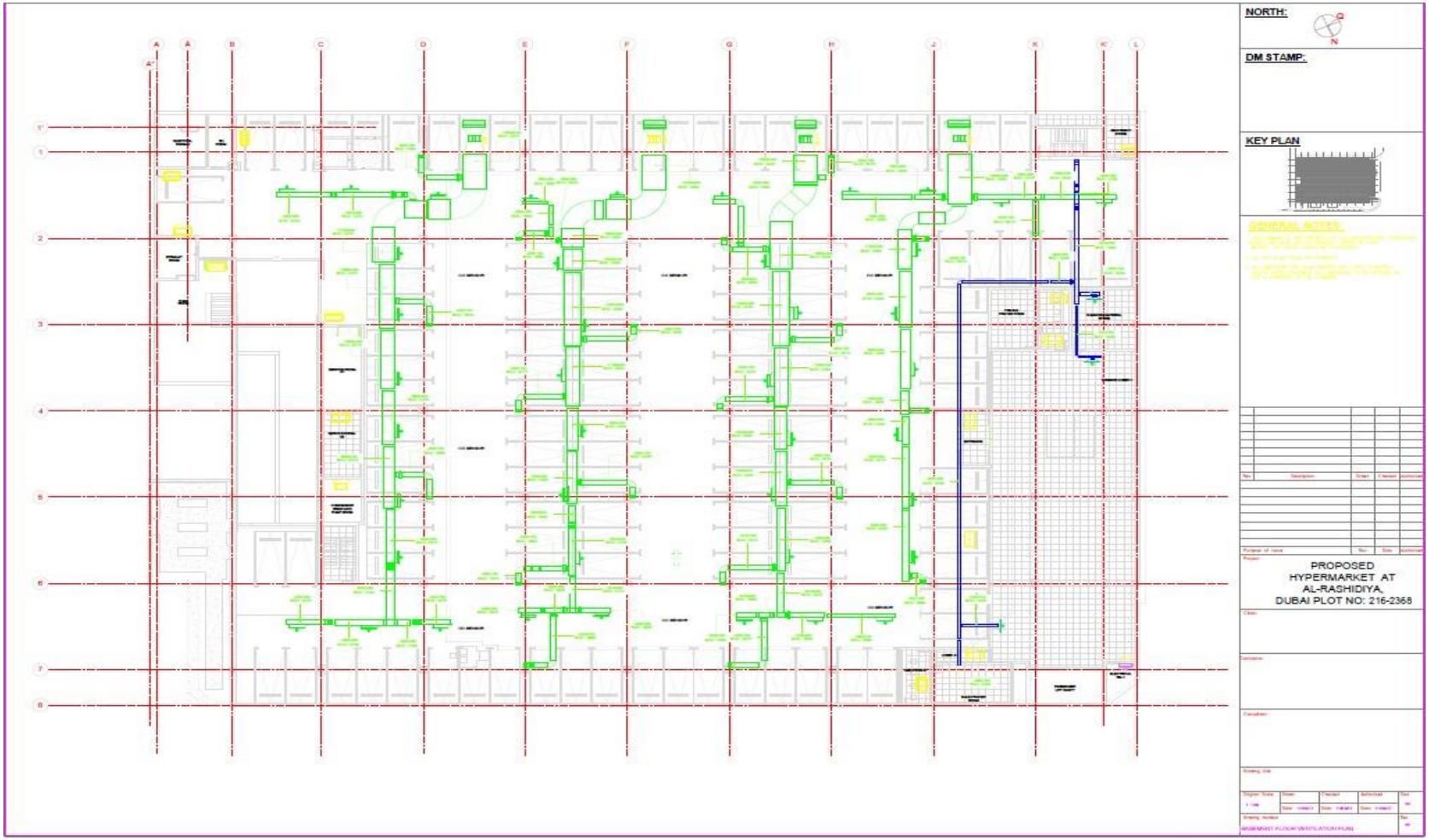
SILICON
Engineering Consultants Ltd

BASEMENT FLOOR CHILLED WATER PLAN



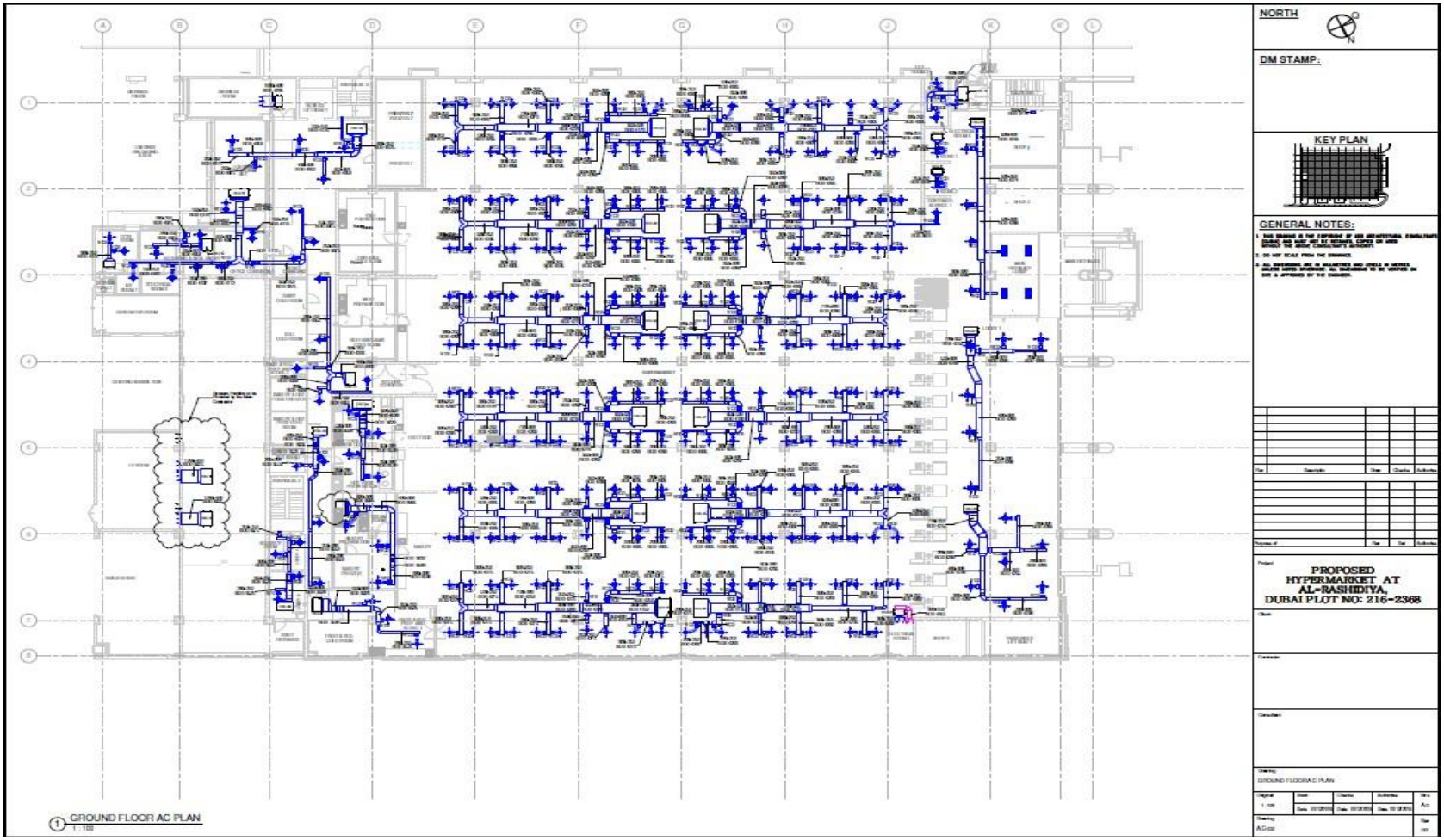
SILICON
Engineering Consultants Ltd

BASEMENT FLOOR VENTILLATION PLAN



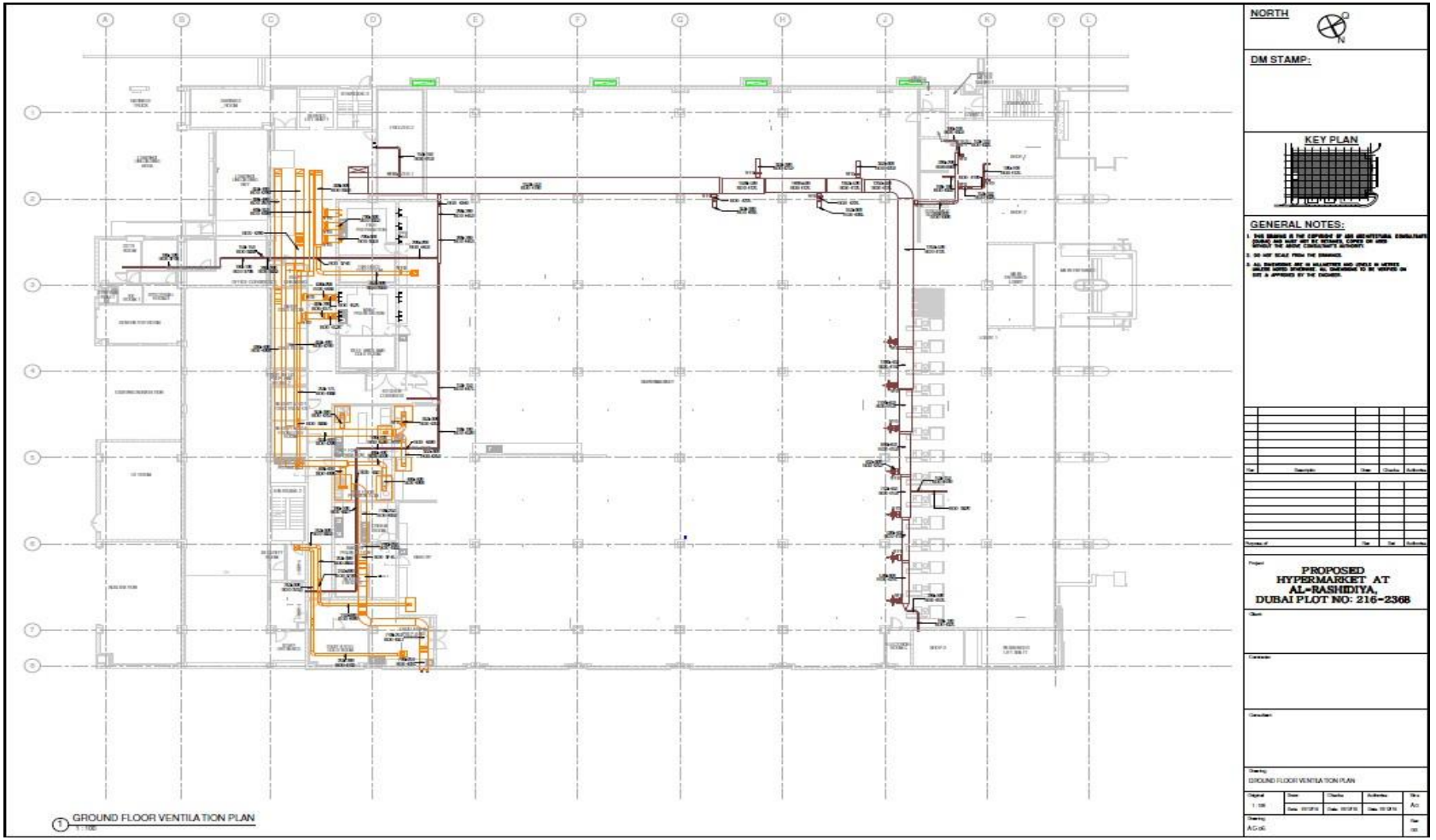
SILICON
Engineering Consultants Ltd

GROUND FLOOR AC PLAN



SILICON
Engineering Consultants Ltd

GROUND FLOOR VENTILLATION PLAN



SILICON
Engineering Consultants Ltd

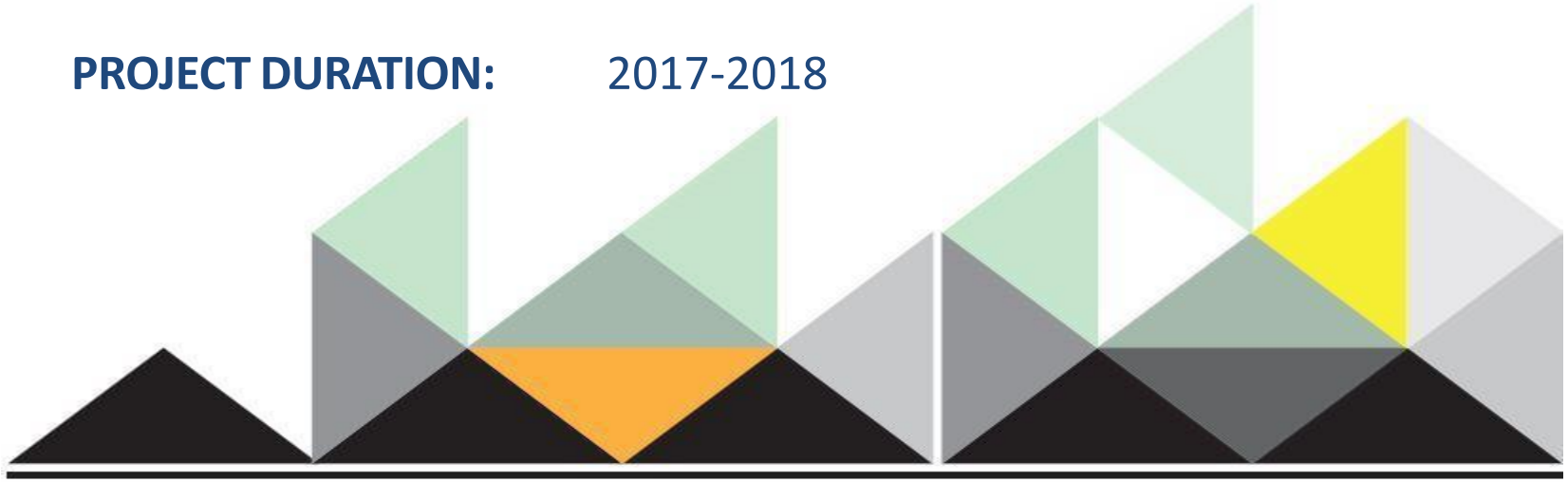
MEPF PROJECTS

CLIENT NAME: HILALCO

PROJECT NAME: YSIDR - FAMILY HOTEL SUBSTRUCTURE WORK, DUBAI

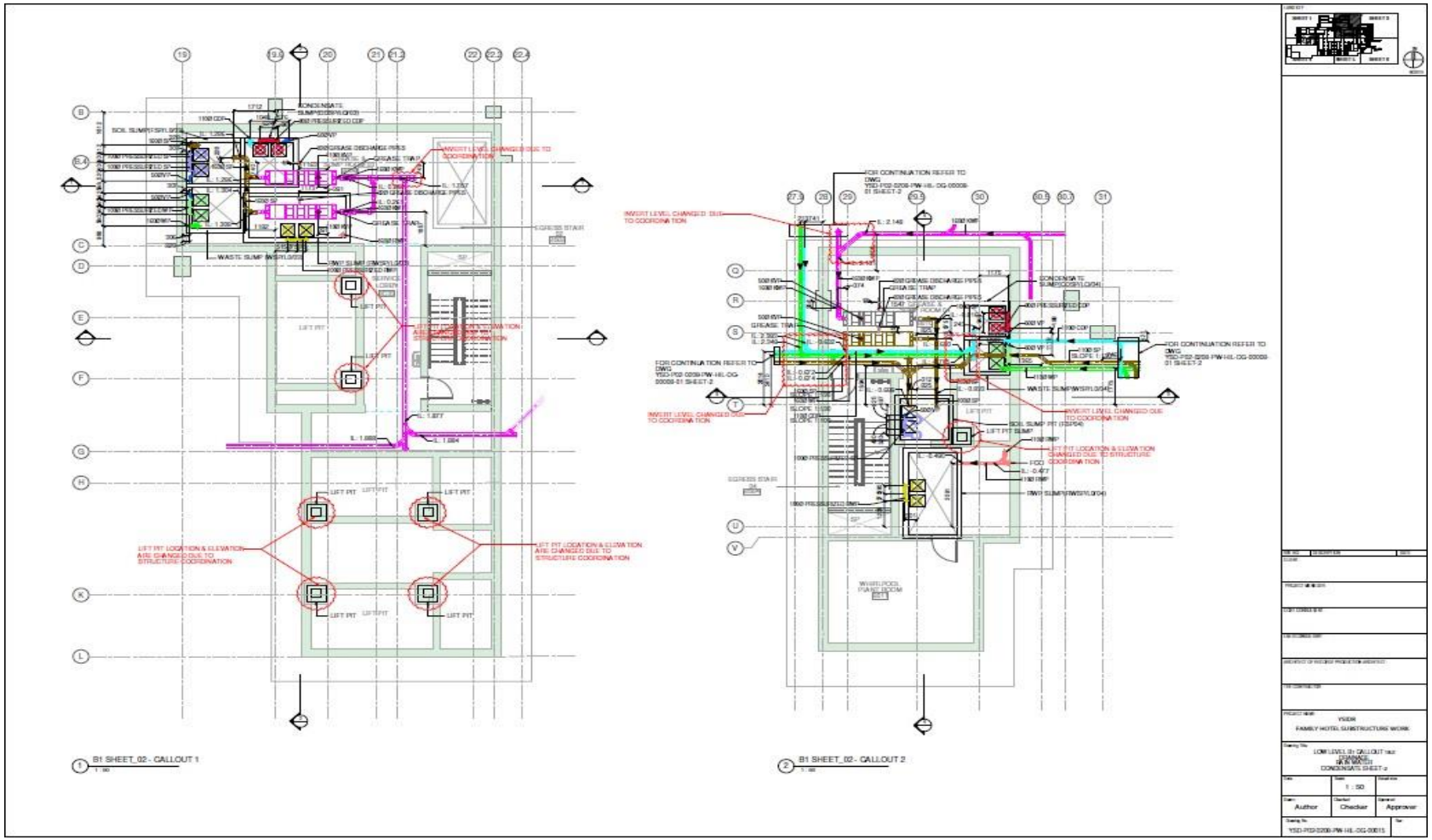
PROJECT DESCRIPTION: PLUMBING CO-ORDINATED MODEL & SHOP DRAWING FOR TWO BASEMENTS

PROJECT DURATION: 2017-2018



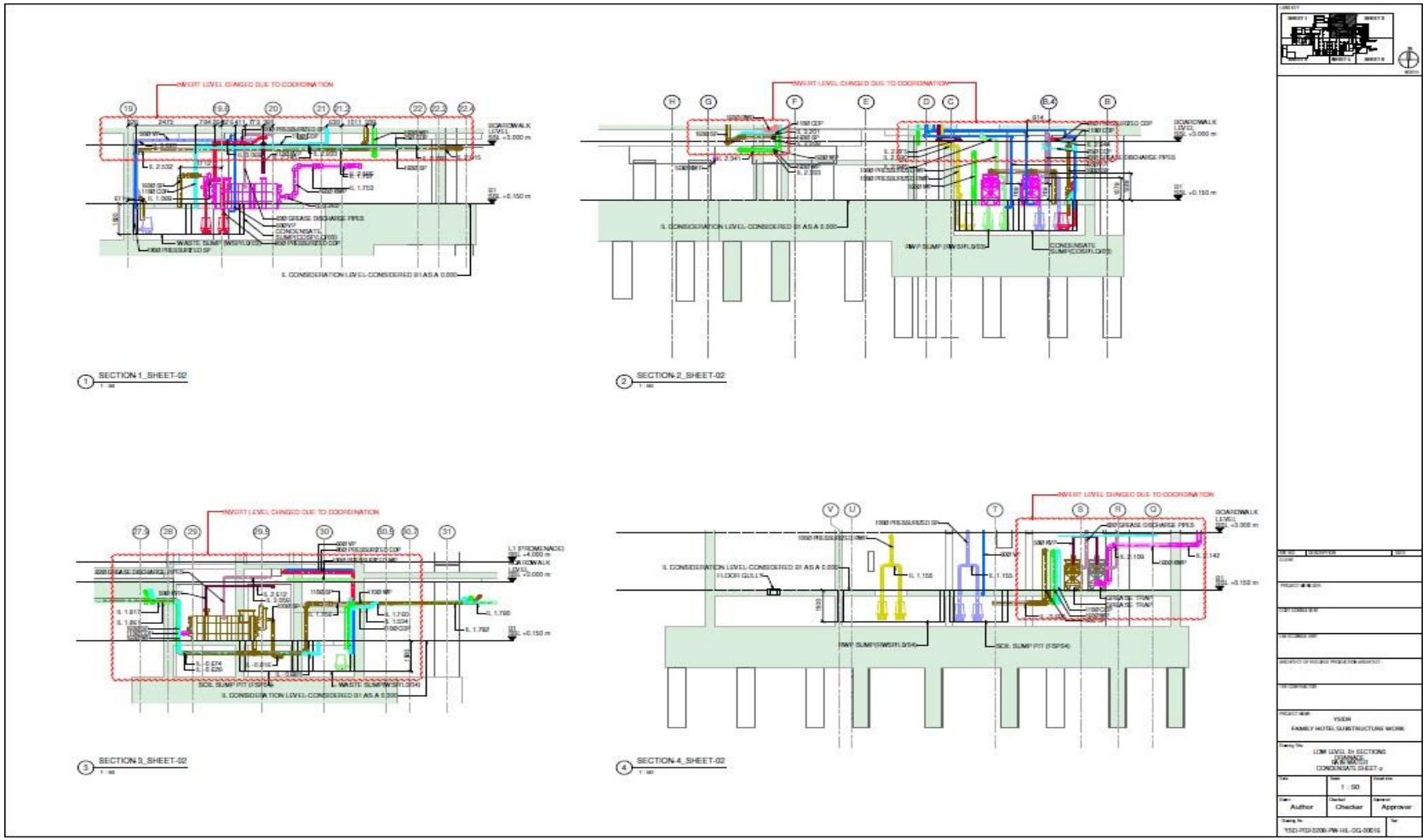
SILICON
Engineering Consultants Ltd

DRAINAGE RAIN WATER PLAN



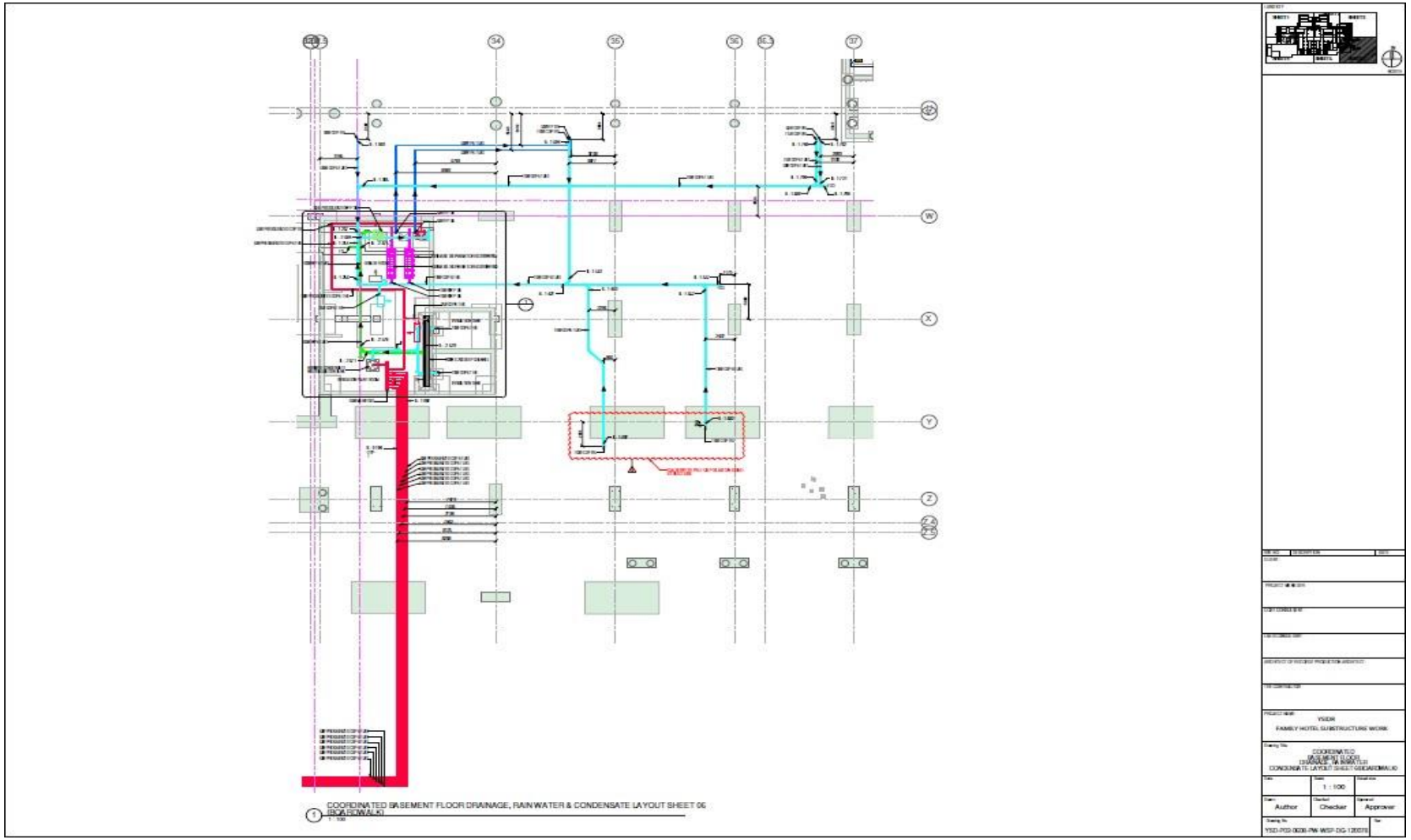
SILICON
Engineering Consultants Ltd

DRAINAGE RAIN WATER PLAN



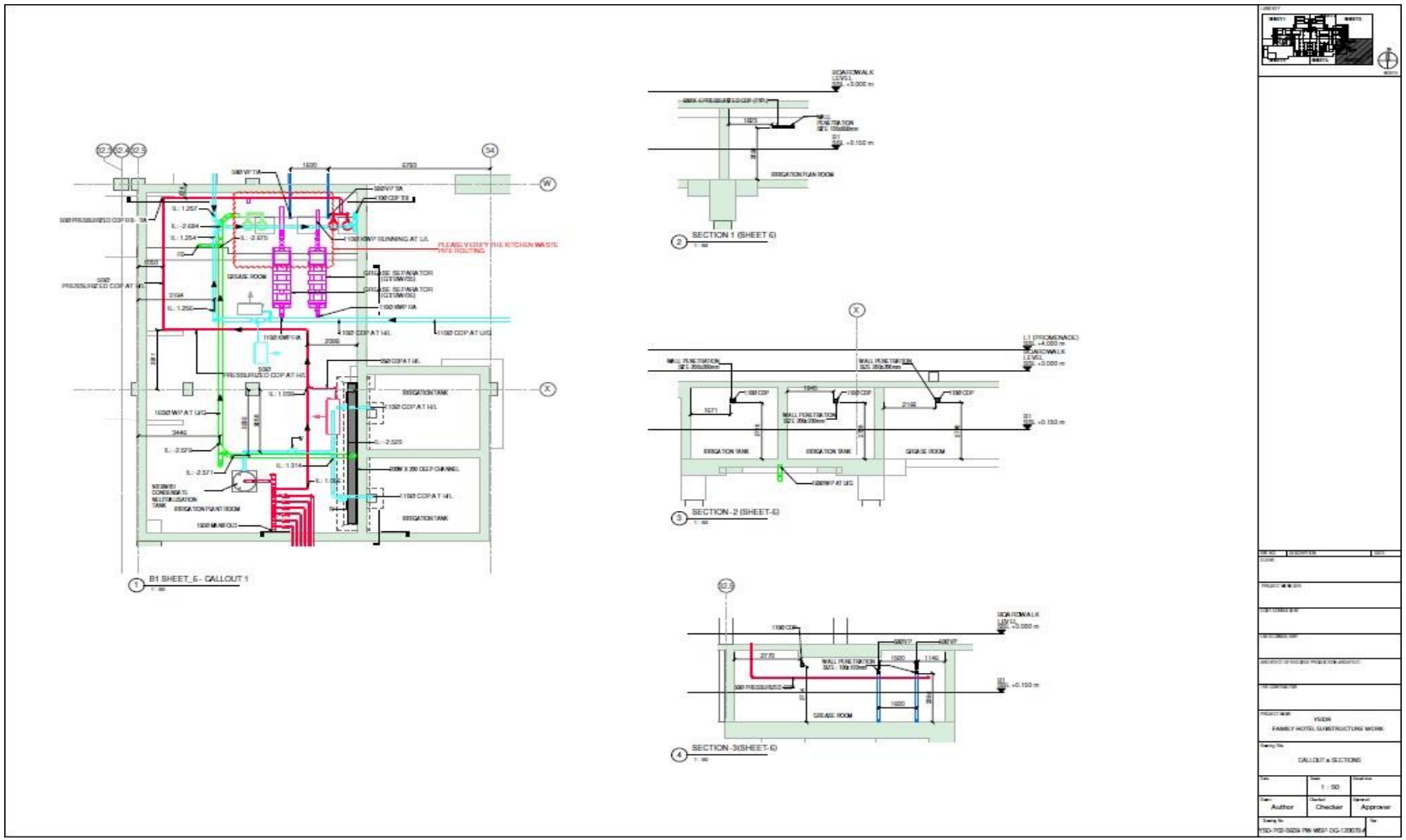
SILICON
Engineering Consultants Ltd

COORDINATED BASEMENT FLOOR DRAINAGE, RAIN WATER PLAN LAYOUT



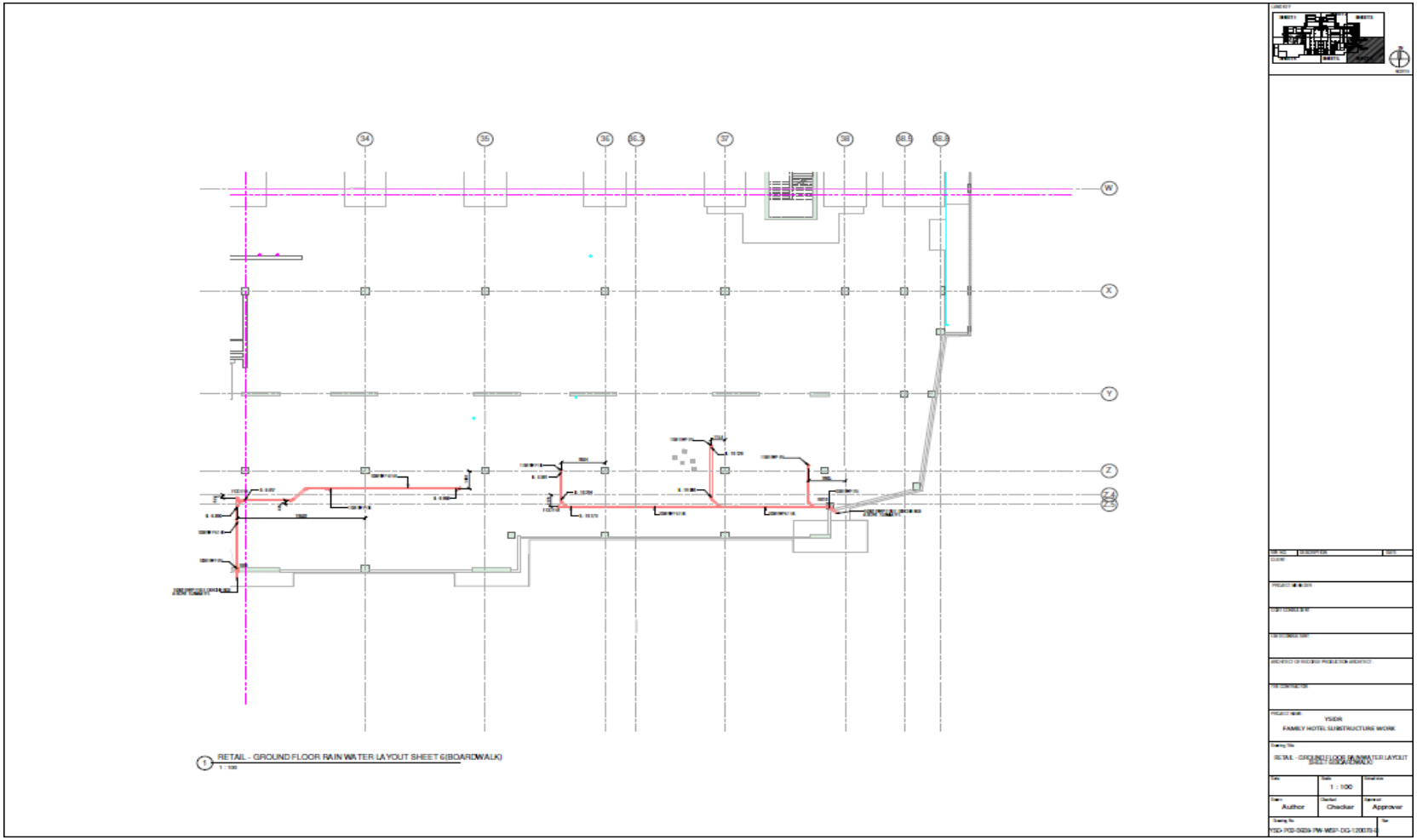
SILICON
Engineering Consultants Ltd

CALLOUTS & SECTIONS



SILICON
Engineering Consultants Ltd

GROUND FLOOR RAIN WATER PLAN LAYOUT



SILICON
Engineering Consultants Ltd

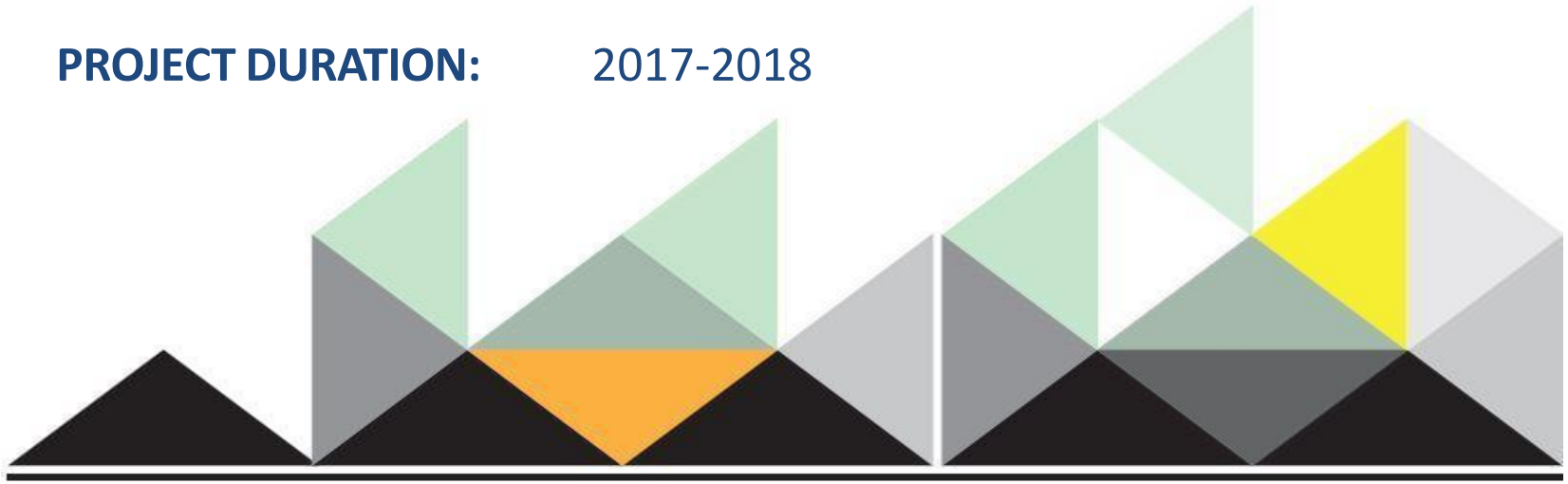
MEPF PROJECTS

CLIENT NAME: MIRK ELECTROMECHANICAL LLC

PROJECT NAME: PROPOSED COMMERCIAL & RESIDENTIAL BUILDING (B+GR+4+ROOF), DUBAI

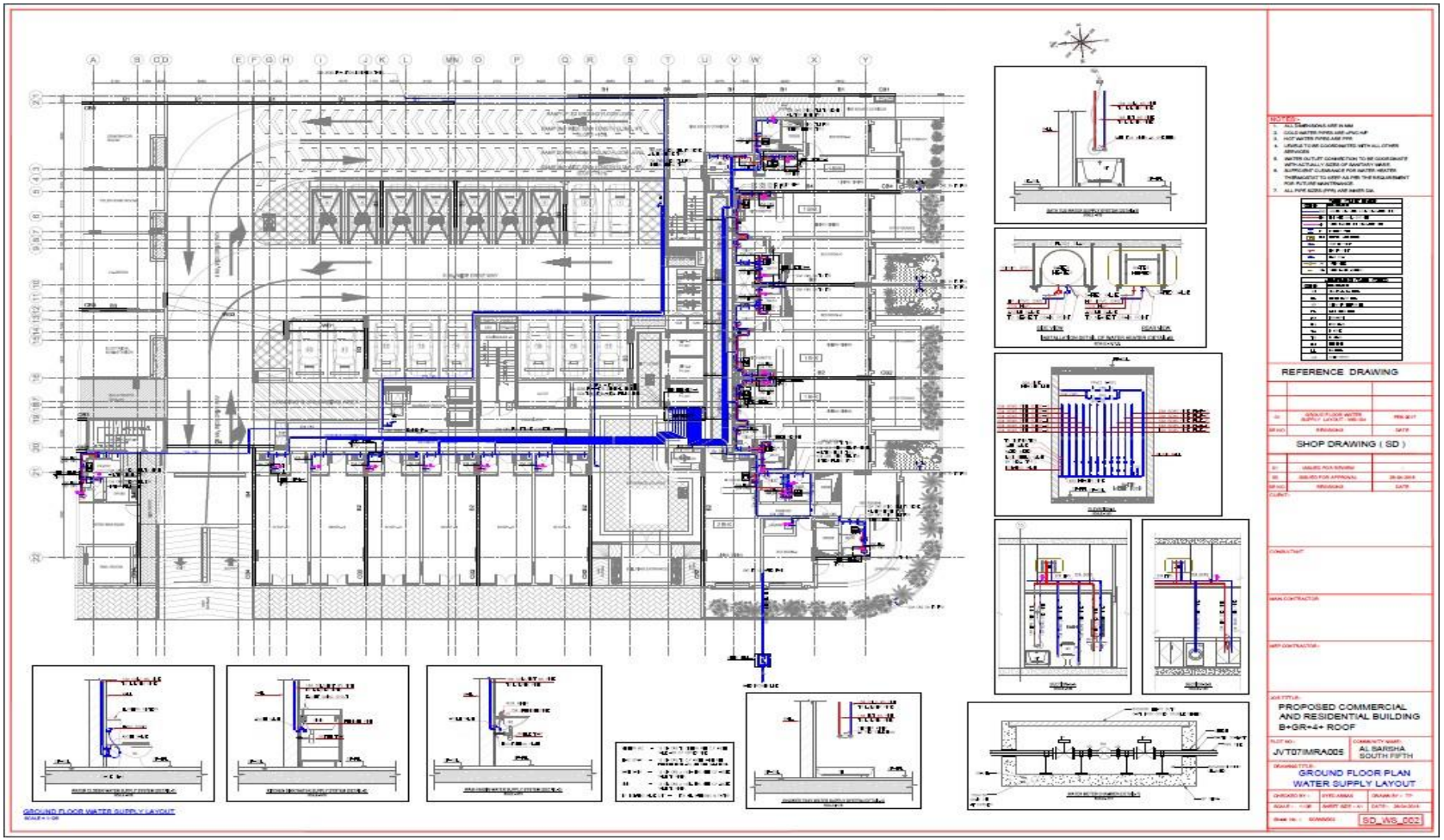
PROJECT DESCRIPTION: ELECTRICAL, PLUMBING CO-ORDINATED SHOP DRAWING IN AUTOCAD

PROJECT DURATION: 2017-2018



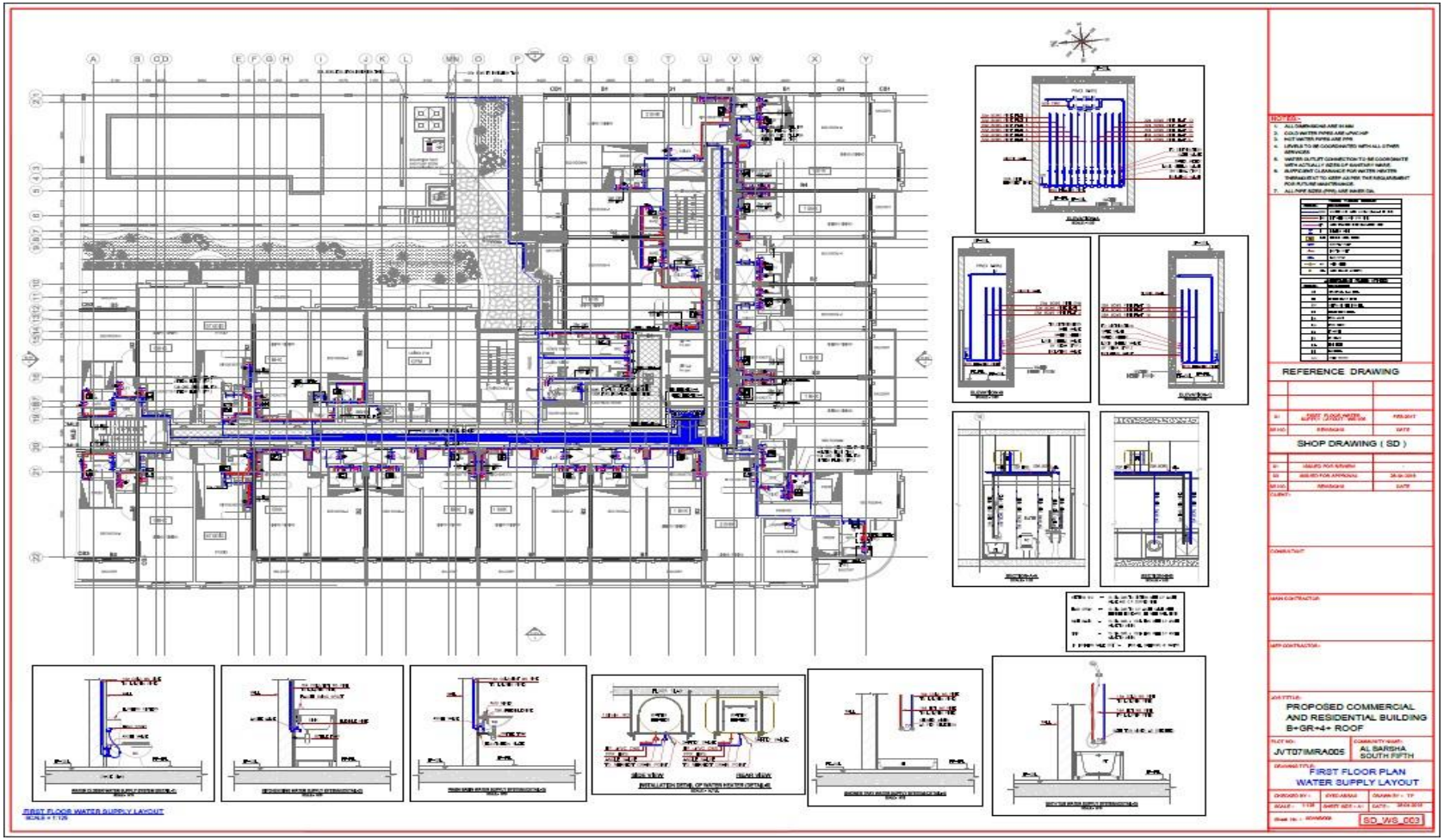
SILICON
Engineering Consultants Ltd

GROUND FLOOR PLAN WATER SUPPLY LAYOUT



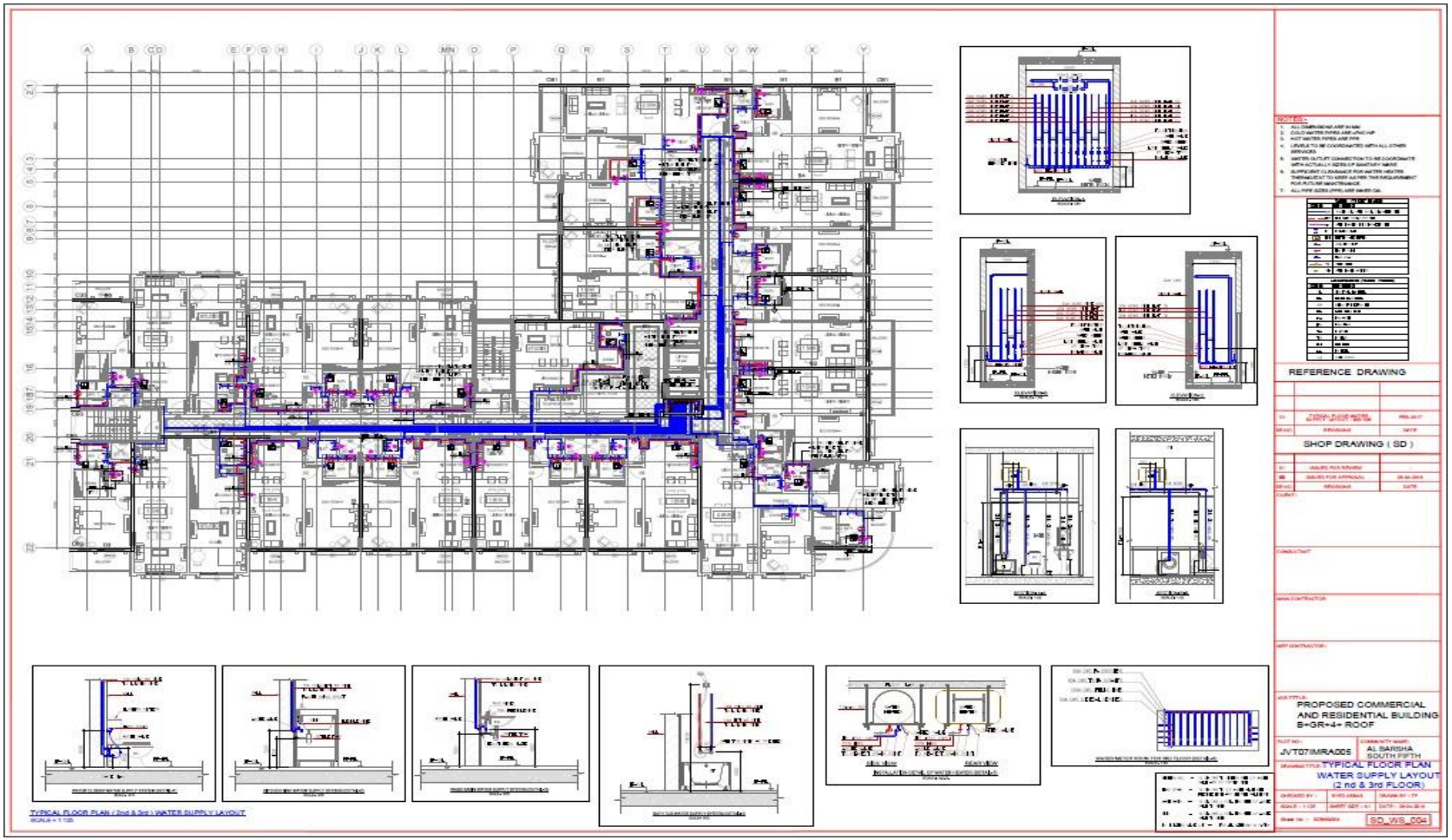
SILICON
Engineering Consultants Ltd

FIRST FLOOR PLAN WATER SUPPLY LAYOUT



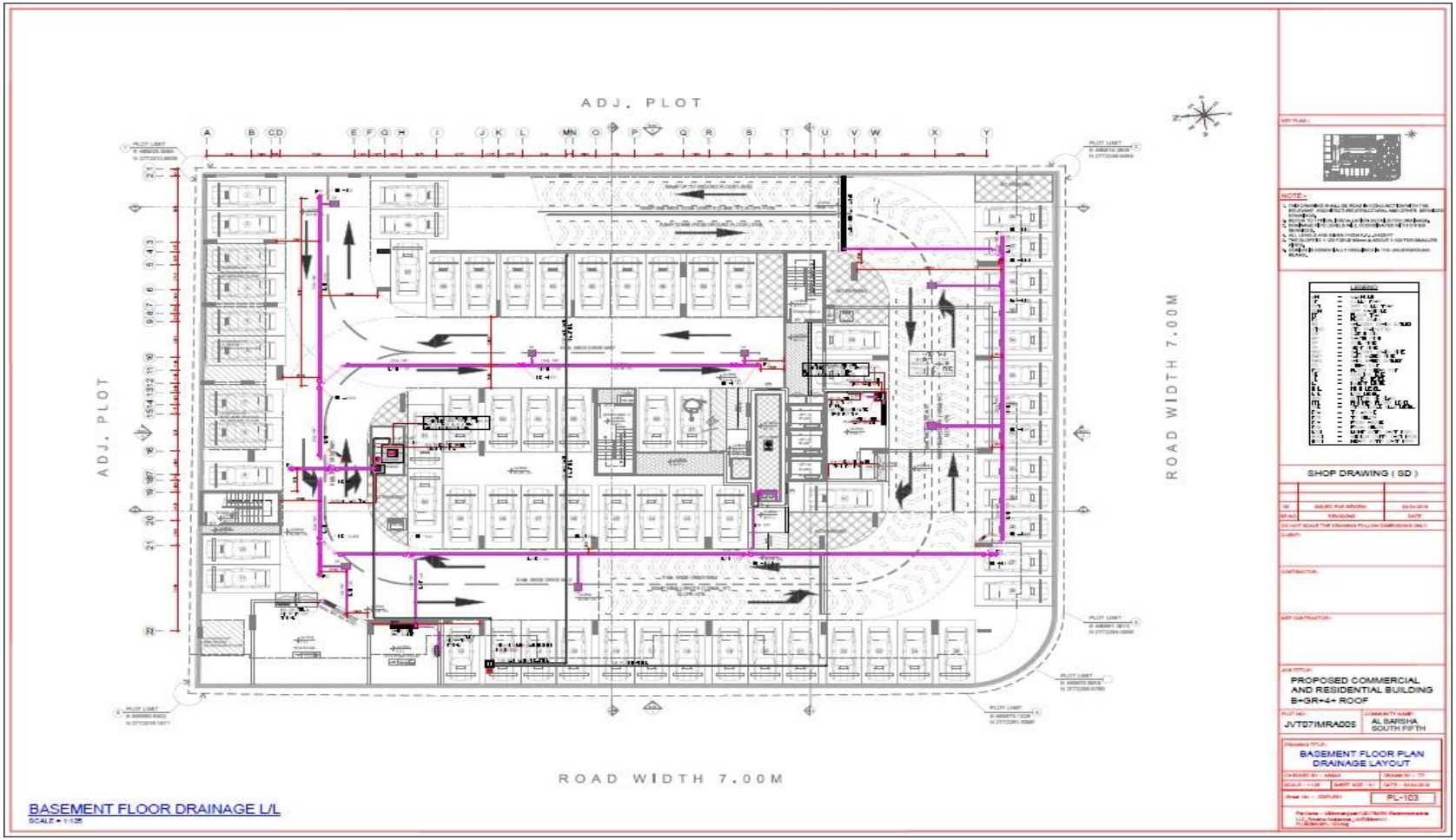
SILICON
Engineering Consultants Ltd

TYPICAL FLOOR PLAN WATER SUPPLY LAYOUT (2nd & 3rd FLOOR)



SILICON
Engineering Consultants Ltd

BASEMENT FLOOR PLAN DRAINAGE LAYOUT



SILICON
Engineering Consultants Ltd

MEPF PROJECTS

CLIENT NAME: SBS ENGINEERING-GROUP

PROJECT NAME: RIYADH METRO PROJECT (3J1 STATION), SAUDI ARABIA

PROJECT DESCRIPTION: COMPLETE ELECTRICAL COMPRISING MAIN DISTRIBUTION, LIGHTING, EMERGENCY LIGHTING, FIRE ALARM SHOP DRAWING

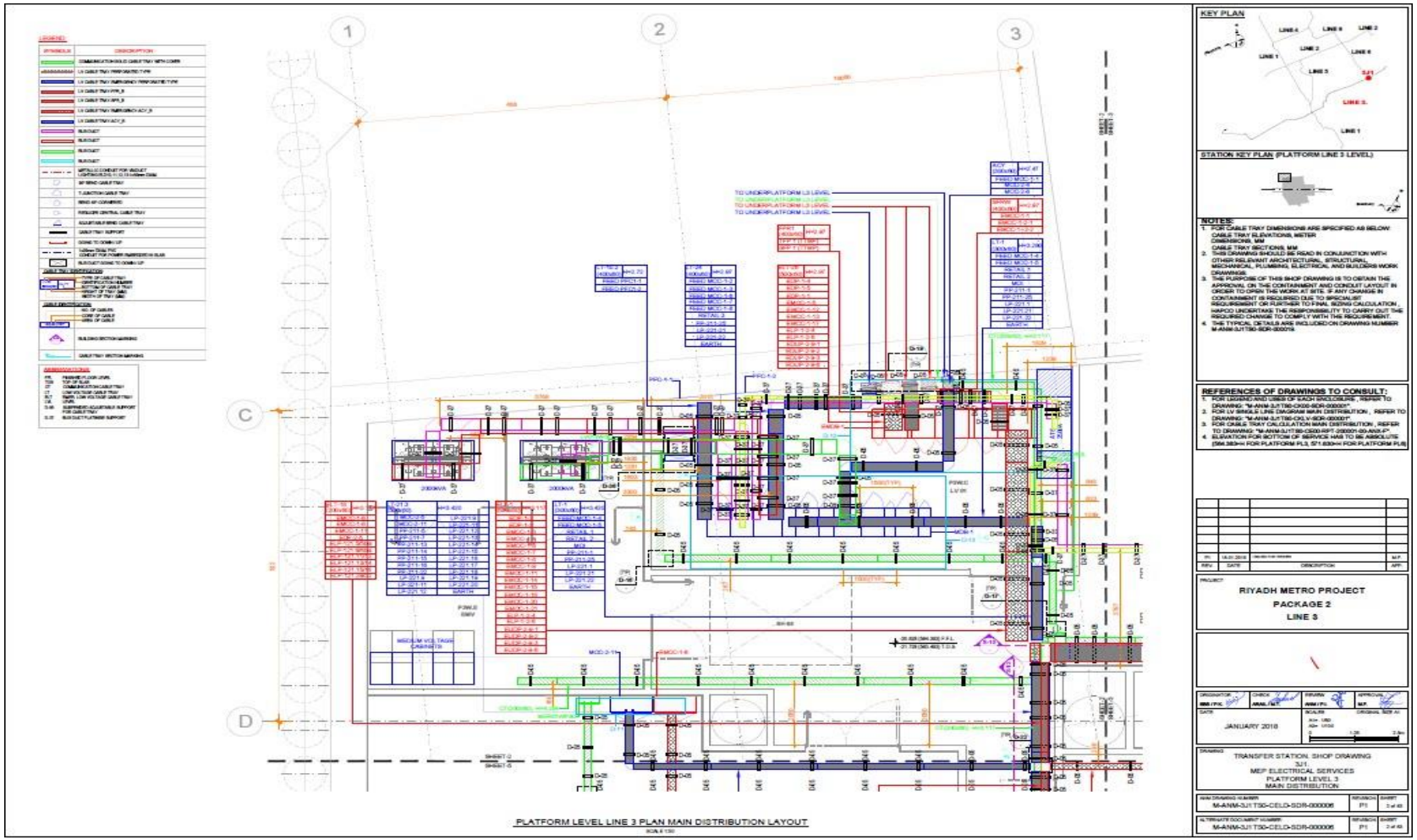
PROJECT DURATION: 2017-2018

SILICON
Engineering Consultants Ltd

3J1 PLATFORM LEVEL 3 - MAIN DISTRIBUTION LAYOUT

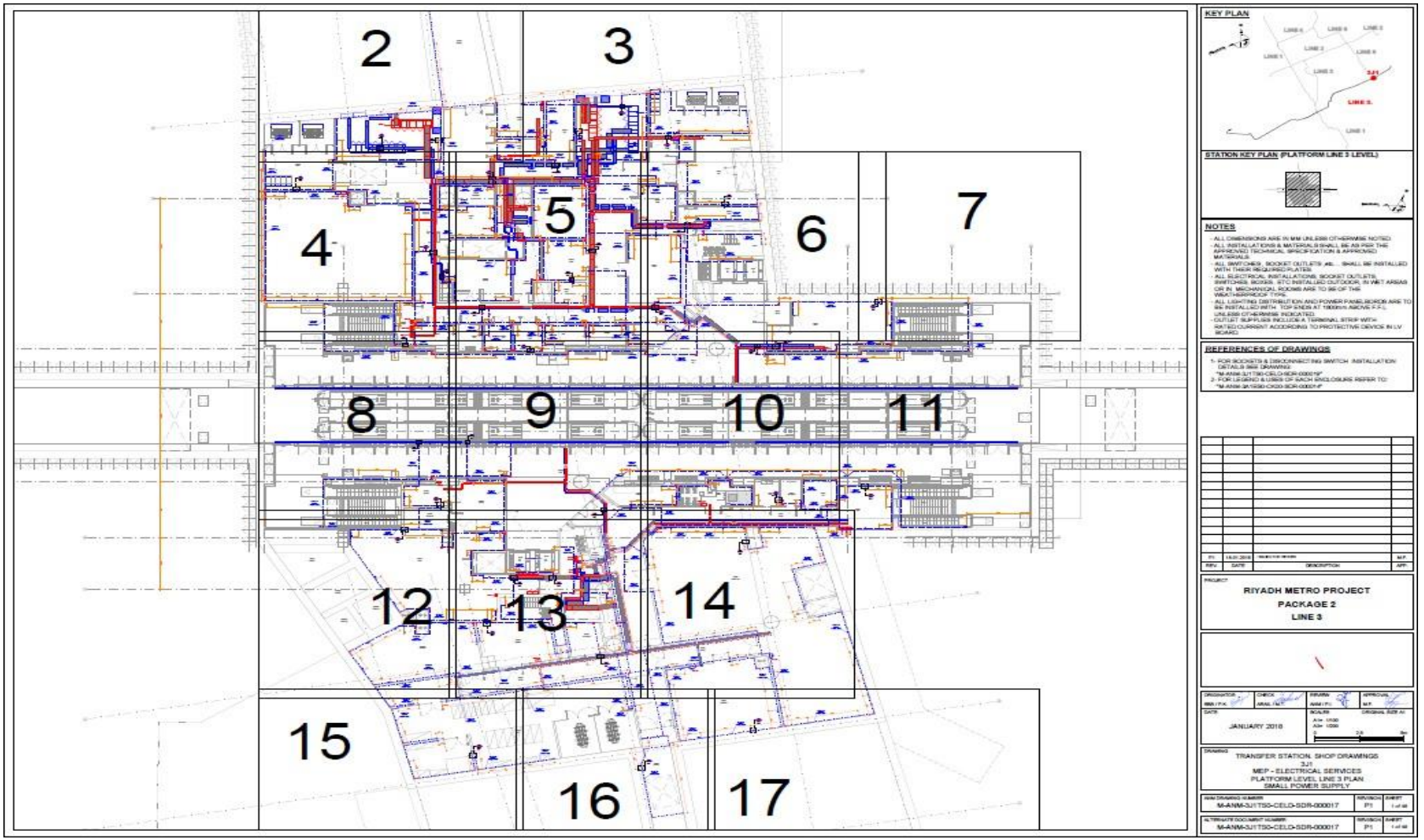
SILICON
Engineering Consultants Ltd

3J1 PLATFORM LEVEL 3 - MAIN DISTRIBUTION LAYOUT



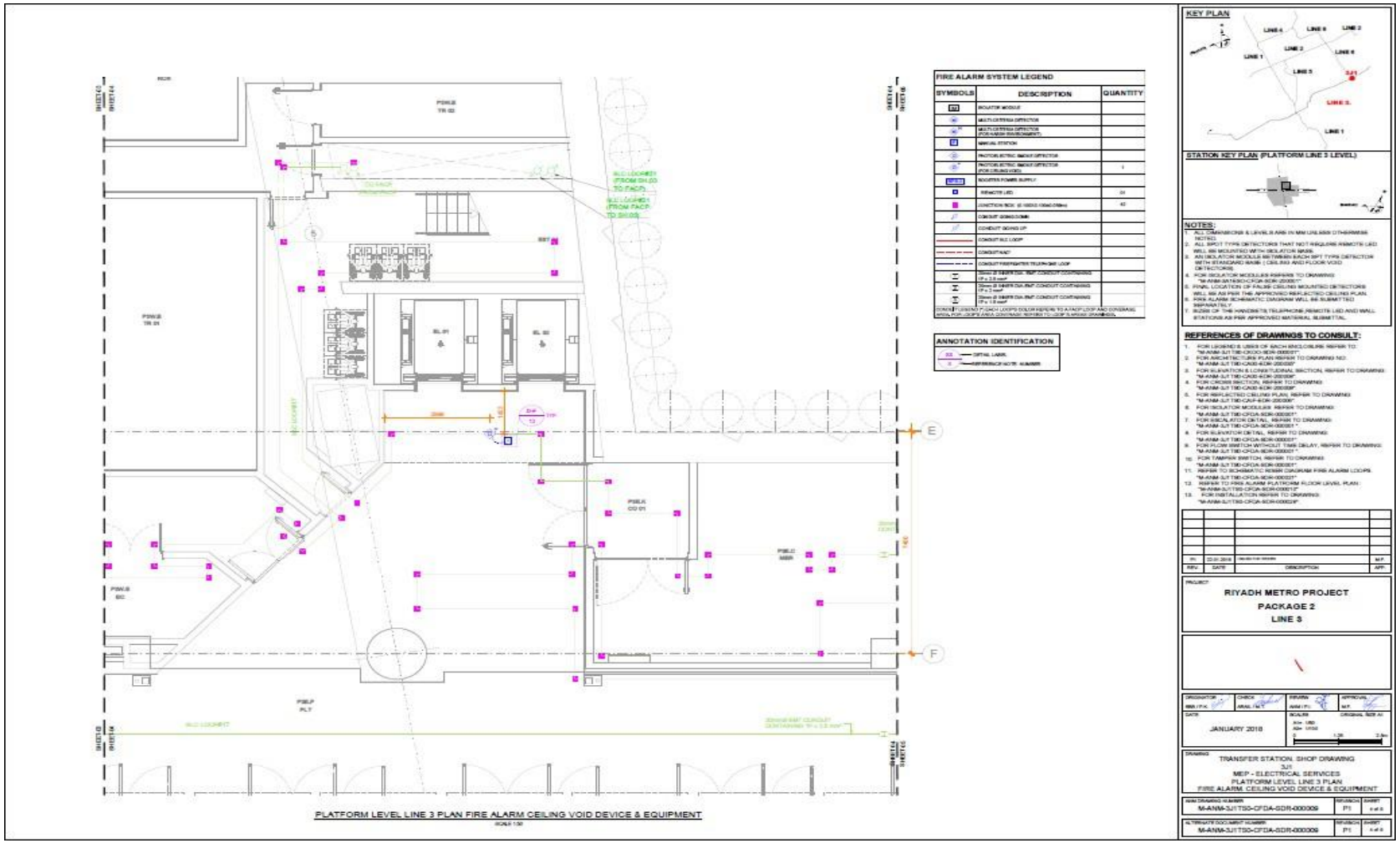
SILICON
Engineering Consultants Ltd

3J1 PLATFORM LEVEL 3 - SMALL POWER SUPPLY LAYOUT



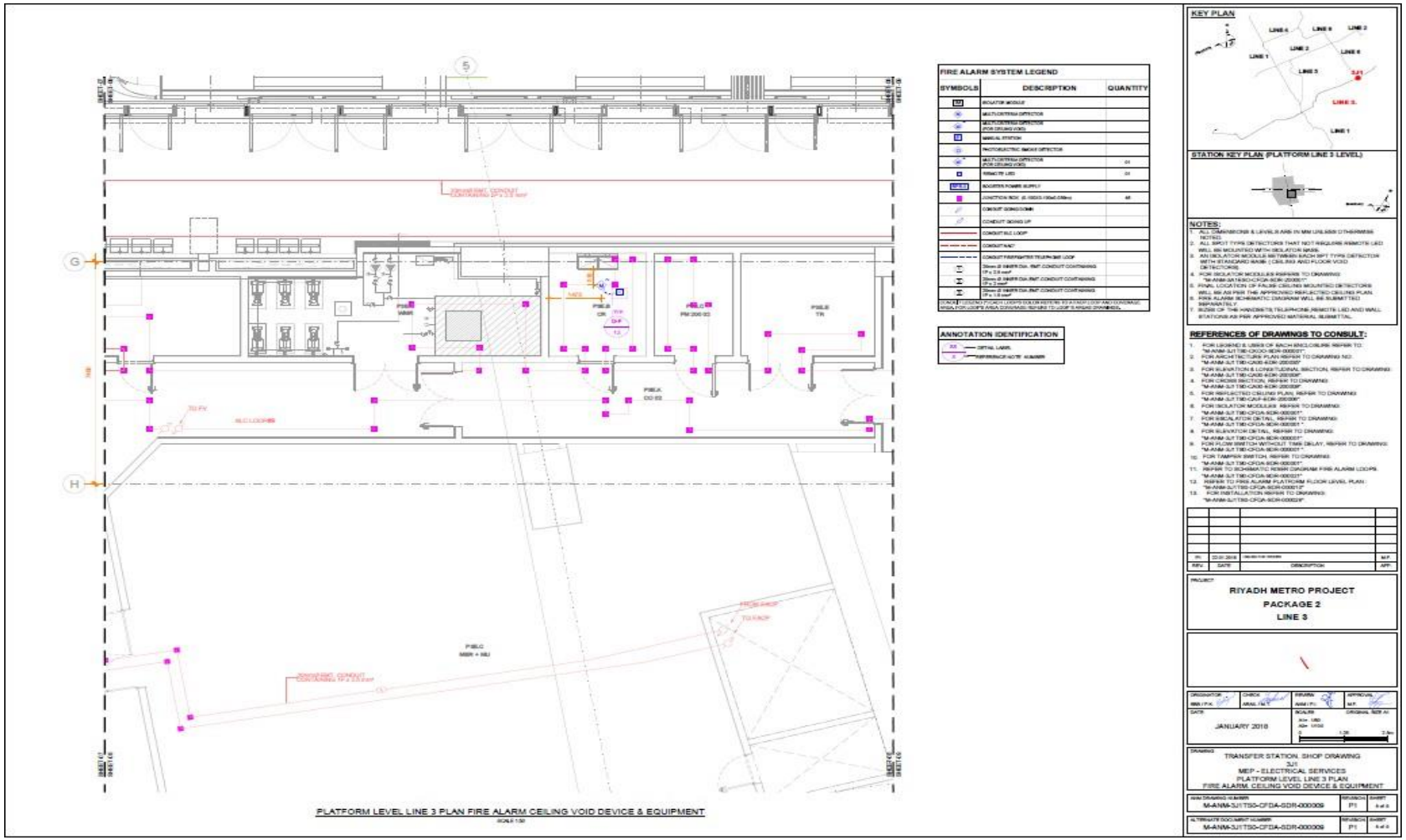
SILICON
Engineering Consultants Ltd

3J1 PLATFORM LEVEL 3 - VOID DEVICE & EQUIPMENT



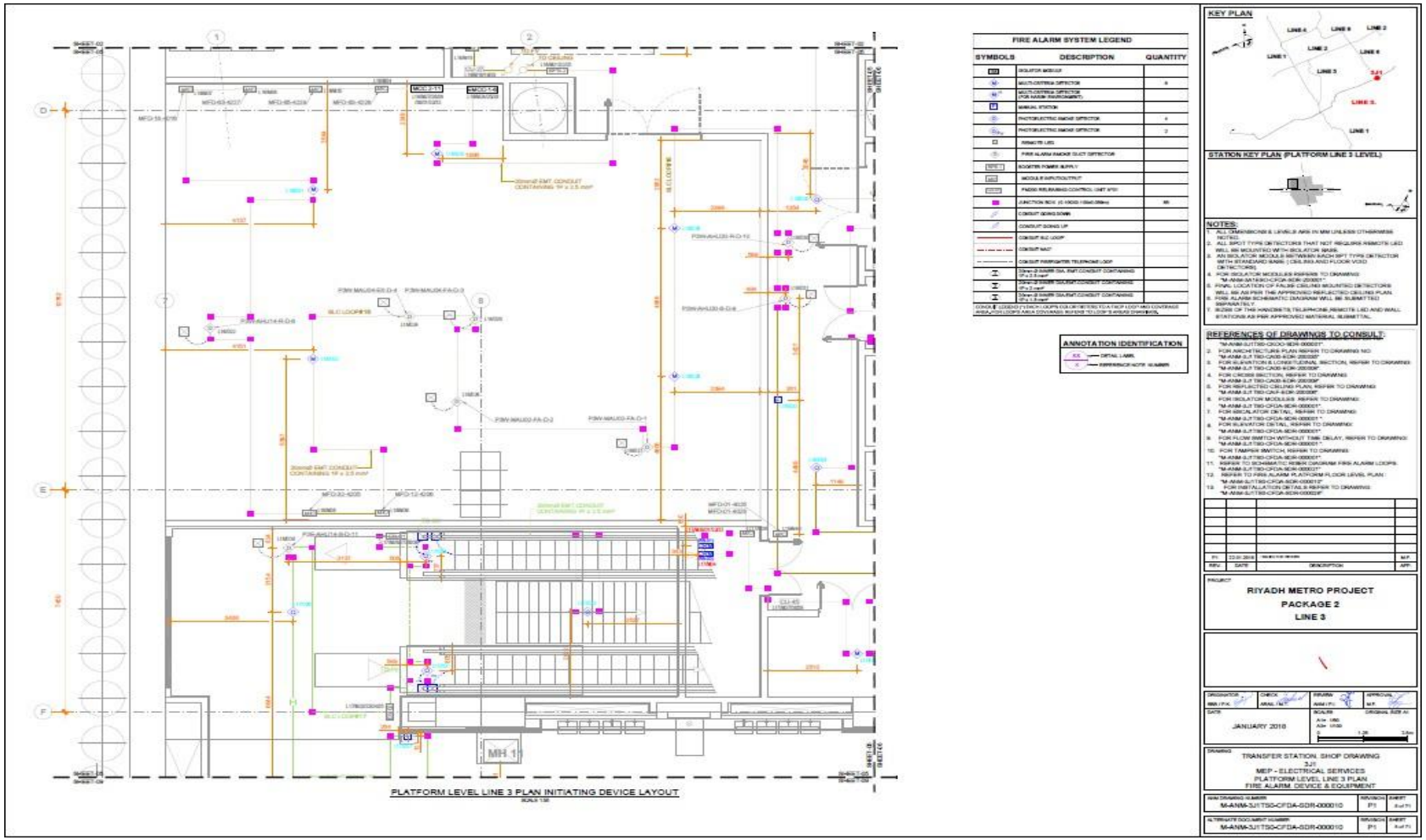
SILICON
Engineering Consultants Ltd

3J1 PLATFORM LEVEL 3 - VOID DEVICE & EQUIPMENT



SILICON
Engineering Consultants Ltd

3J1 PLATFORM LEVEL 3 – FIRE ALARM DEVICE & EQUIPMENT



SILICON
Engineering Consultants Ltd

SAMPLE DOWNLOAD LINK

http://www.siliconec.co.nz/profile/samples/mepf-samples.pdf

http://www.siliconec.co.nz/profile/samples/mepf-bim-modeling-samples.pdf

CONTACT DETAILS

Silicon Engineering Consultants Ltd.

New Zealand

188A Stoddard Road, Mt Roskill,
Auckland 1041, New Zealand
Email: panchal@siliconec.co.nz
Tel: 09 9097860

Australia

PO Box 81, Edwardstown,
Adelaide, SA-5039,
Australia
Email: panchal@siliconec.com.au
Tel: 08 71303063