



1 Level 2 D1 Ground PLANT
M2 HEAT PUMPS
1:50

2 3D PLANT M2

3 3D HOT WATER TANK
CONNECTIONS M2

4 3D HEAT PUMP
CONNECTION M2

REFERRAL DRAWINGS			
DRAWING DESCRIPTION	DRAWING NO.	REV	REV DATE

GENERAL NOTES			
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTS DRAWINGS AND MECHANICAL STANDARD TECHNICAL SPECIFICATION.			
2. THE COMPLETE INSTALLATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL AUTHORITIES BY LAWS.			
3. THE NATIONAL BUILDING REGULATIONS AND TO THE SATISFACTION OF THE ENGINEER.			
4. ALL WORK TO BE CARRIED OUT BY OR UNDER THE DIRECT SUPERVISION OF LICENSED PLUMBERS.			
5. ALL TESTING OF PIPE WORK TO BE CARRIED OUT IN STAGES AS WORK PROCEEDS.			
WATER SERVICES NOTES			
1. UNDER GROUND PIPES TO BE IN HDPE TO SABS CLASS 12 WITH 600MM MINIMUM COVER.			
2. CW PIPES IN PARKING BASEMENTS AND FOR ALL CW RISERS BETWEEN FLOORS TO BE IN CARBON STEEL WITH CLAMRON JOINTS FOR 50MM PIPES AND GREAYER.			
3. ISOLATING VALVES TO BE TO SABS 776 CLASS 8.			
4. APPROVED QUARTER TURN BALL VALVES (WITH FULL PIPE BORE) MAY BE USED. ALL VALVES TO BE D20 TO SABS.			
5. ALL PIPE WORK TO BE PRESSURE TESTED IN STAGES AS WORK PROCEEDS. PIPE WORK ON MAINS PRESSURE TO BE TESTED TO 10 BAR.			
6. OTHER PIPE WORK TO BE TESTED TO ONE AND A HALF TIMES THE WORKING PRESSURE.			
7. AS BUILT WATER SERVICES TO BE MARKED ON DRAWINGS AS WORK PROCEEDS AND THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.			
8. ISOLATING VALVES TO BE CLEARLY SHOWN ON DRAWINGS AND LABELLED ON SITE.			
9. ALL ISOLATING VALVES SHALL BE POSITIONED IN AN EASILY ACCESSIBLE POSITION.			
10. VALVE LABELS TO BE 100MM DIAMETER ENGRAVED TRAPFOLEYE WITH LARGE CP KEY RING FIXING TO VALVE.			
SV		ISOLATING VALVE	
BV		BALANCING VALVE	
NRV		NON RETURN VALVE	
WM		WATER METER	
PRV		PRESSURE REDUCING VALVE	
PU		PUMP	
IS		INLINE STRAINER	
PRV		PRESSURE RELIEF VALVE	
TPRV		TEMPERATURE & PRESSURE RELIEF VALVE	
VV		VACUUM RELIEF VALVE	
ARCHITECT			
REVISIONS			
REV.	DATE	BY	DESCRIPTION
1	30/08/2021	NR	REVISED TO SUB PLANT ROOM LOCATIONS
0	30/08/2021	NR	SUBMITTED FOR TENDER
CLIENT			
CONSULTANT			
PROJECT			
SABC Electrode Boiler Replacement			
DISCIPLINE			
WET SERVICES			
DRAWING DESCRIPTION			
PLANT ROOM M2 HEAT PUMP PLANT LAYOUT			
DESIGNED BY:		SIGNATURE AND DATE:	
N.Ramachandran			
REVIEWED BY:		SIGNATURE AND DATE:	
M.Murugesu			
P.E. 2011/10228		SIGNATURE AND DATE:	
APPROVED BY:		SIGNATURE AND DATE:	
PROJECT NO:		DATE:	
A3281		30/08/2021	
DRAWING NO:		A3281MW-PL-006	
SCALE	SHEET SIZE	REVISION	
1:50	A0	D	