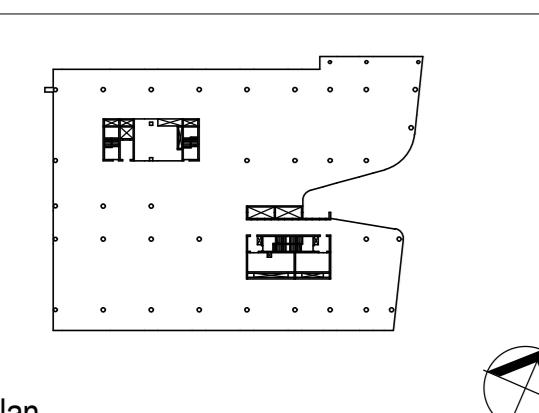


PRESSURE INDEPENDENT CONTROL VALVES (PICV) SCHEDULE		
LOCATION	PICV QTY	PIPE DIAMETER
MEETING ROOMS	5	20
INFORMAL MEETING	3	20
GARAGE AREA / COLABORATIVE	0	20
OPEN PLAN	5	20
PERIMETER ZONES		
+ WEST ZONE	0	32
+ NORTH ZONE	0	20
+ EAST ZONE	1	32
+ SOUTH ZONE	0	25
SPARE	1	20
TOTAL	21	

AGC  
NM  
27/05/2016  
DN \_ rev 2 -31/9/16

AGC-SK-12.2  
LEVEL 12 PIPEWORK LAYOUT



KEY		NORTH CORE DESCRIPTION		KEY		SOUTH CORE DESCRIPTION	
1	APPROVED FOR CONSTRUCTION	18/12/15		7	CENTRE ZONE 2 SUPPLY AIR RISER	21	SMOKE EXHAUST RISER
2	APPROVED FOR CONSTRUCTION	03/11/15		8	NORTH ZONE SUPPLY AIR RISER	22	SMOKE EXHAUST RISER
3	APPROVED FOR CONSTRUCTION	23/09/15		9	STAIR PRESSURISATION RISER	23	SUPPLEMENTARY EXHAUST AIR RISER
4	APPROVED FOR TENDER	07/09/15		10	SMOKE EXHAUST RISER	24	EAST ZONE RISER
5	APPROVED FOR TENDER	24/08/15		11	CENTRE ZONE 1 SUPPLY AIR RISER	25	TOILET EXHAUST RISER
6	APPROVED FOR INFORMATION	22/08/15		12	KITCHEN EXHAUST RISER	26	SOUTH ZONE RISER
7	APPROVED FOR INFORMATION	15/06/15		13	KITCHEN EXHAUST RISER	27	CENTRE ZONE 1 SOUTH RISER
8	PRELIMINARY ISSUE	01/06/15		14	TOILET EXHAUST RISER	28	CENTRE ZONE 2 SOUTH RISER
9	PRELIMINARY ISSUE	Date		15	STAIR PRESSURISATION RISER	29	RETAIL KITCHEN EXHAUST AIR RISER
10	PRELIMINARY ISSUE			16	STAIR PRESSURISATION RISER	30	TOILET EXHAUST RISER
11	PRELIMINARY ISSUE			17	STAIR PRESSURISATION RISER	31	STAIR PRESSURISATION RISER
12	PRELIMINARY ISSUE			18	STAIR PRESSURISATION RISER		
13	PRELIMINARY ISSUE			19	STAIR PRESSURISATION RISER		
14	PRELIMINARY ISSUE			20	STAIR PRESSURISATION RISER		
15	PRELIMINARY ISSUE			21	STAIR PRESSURISATION RISER		
16	PRELIMINARY ISSUE			22	STAIR PRESSURISATION RISER		
17	PRELIMINARY ISSUE			23	STAIR PRESSURISATION RISER		
18	PRELIMINARY ISSUE			24	STAIR PRESSURISATION RISER		
19	PRELIMINARY ISSUE			25	STAIR PRESSURISATION RISER		
20	PRELIMINARY ISSUE			26	STAIR PRESSURISATION RISER		
21	PRELIMINARY ISSUE			27	STAIR PRESSURISATION RISER		
22	PRELIMINARY ISSUE			28	STAIR PRESSURISATION RISER		
23	PRELIMINARY ISSUE			29	STAIR PRESSURISATION RISER		
24	PRELIMINARY ISSUE			30	STAIR PRESSURISATION RISER		
25	PRELIMINARY ISSUE			31	STAIR PRESSURISATION RISER		

**GENERAL NOTES**

- 1 REFER TO EQUIPMENT SCHEDULE FOR THE PASSIVE AND ACTIVE CHILLED BEAMS LENGTH, AIR VOLUME AND TYPE.
- 2 ALL CENTRE ZONE SWM SUPPLY DIFFUSERS SHALL COMPENSATE WITH ADJUSTABLE PLenum BOX, PERFORATED PLATE BEHIND AND FLEXIBLE DUCT CONNECTIONS.
- 3 A MINIMUM 10mm CLEARANCE MUST BE MAINTAINED ABOVE EACH PASSIVE CHILLED BEAM AT ALL TIMES.
- 4 REFER TO DETAILS DRAWING FOR TYPICAL CHILLED BEAM VALVING ARRANGEMENTS.
- 5 FINAL CONNECTION OF CHILLED BEAM TO MAIN PIPING CIRCUIT via 600mm LONG Ø18mm FLEXIBLE HOSE.
- 6 PROVIDE ADDITIONAL BALANCING DEVICES TO INDIVIDUAL CHILLED BEAMS AS NECESSARY TO BALANCE GROUPS OF CHILLED BEAMS WITH UNEQUAL CHILLED WATER FLOW RATES.
- 7 ON FLOOR PIPEWORK TO RISE UP AND CONNECT TO FLOW AND RETURN RISER.
- 8 MODIFY VALVING ARRANGEMENTS TO SUIT NUMBER OF BEAMS AND LAYOUT. REFER TO EACH LEVEL LAYOUT.
- 9 ON PIPEWORK LOCAL BRANCHES SERVING CHILLED BEAMS TO BE CONFIGURED AS REVERSE RETURN.
- 10 ON-FLOOR HT CHW RETURN PIPEWORK TO BE INSTALLED WITH MINIMUM SET-UPS OR SET-DOWN CHW RETURN PIPEWORK TO BE INSTALLED AT HIGHER LEVEL RELATIVE TO CHW PIPES AND THE CHILLED BEAMS.
11. ON-FLOOR HT CHW RETURN PIPEWORK SERVING CHILLED BEAMS IS NOT THERMALLY INSULATED WITH EXCEPTION OF THE PIPE SECTION BETWEEN RISER (RISER IS THERMALLY INSULATED) AND FIRST PIPE BRANCH.
12. ALL COCKPIT ROOMS SHALL HAVE MINIMUM 20mm DOOR UNDER-CUT.
13. FOR FOU CONDENSATE SHALL DRAIN TO TUNDISHES LOCATED WITHIN ADJACENT CORES. TUNDISH BY OTHERS CO-ORDINATE FINAL LOCATION WITH HYDRAULICS SERVICES SUB-CONTRACTOR.
14. REFER TO THE ACoustIC REPORT PREPARED BY ARUP FOR TREATMENT AROUND Duct PENETRATIONS THROUGH MEETING ROOMS & FULL HEIGHT WALLS.

**Developer**  
lendlease  
**Lend Lease**  
Project Management & Construction  
Architect: Sarah Kay / Principal Architect / Reg No.0285  
Structural Engineer: Woods Bagot  
Mechanical, Electrical, Hydraulic, Fire Services Engineering  
Sustainability  
Project: NORTH WEST PLOT DARLING HARBOUR LIVE  
Project Number: 252260 Drawing Number: MB3120100 Revision: B

**MECHANICAL SERVICES LEVEL 12**  
lendlease  
**LEND LEASE**  
Scale (A0): 1:100  
Drawn: LL Checked: Approved Drawing Status: CONSTRUCTION  
www.lendlease.com