

This schedule is to be read in conjunction with all other Ramboll drawings. Refer to Ramboll information for methodologies and details of structural support for BWIC's. Any questions, please ask.

This information is based on the LGF elements of the Purcell BWIC Schedule, revision 5 (ref: OTH-PUR-TH-ZZ-SCH-A-5810) and should be read in conjunction with the Purcell schedule and BWIC drawings. Purcell information takes precedence over the Ramboll information. Setting out and dimensions should be used from the Purcell information and not this schedule.

Any discrepancies should be highlighted to the Structural Engineer to assess if the typical details are still applicable.

*Denotes information received from Purcell. *Approx. Height (above FFL) is assumed to be the height of the opening. The height above FFL is due to be included in the next revision following the Purcell update.

The estimated approximate wall thicknesses included are based on the best available information provided to Ramboll and shall be used to determine the number of lintels/width of plates required to fully support the width of the wall in each location for pricing the works. Ramboll have included an assessment of the number of lintels required in each location to assist in pricing the works. Prior to the installation/fabrication of any support, the actual width of the wall is to be confirmed on site by the contractor, and the number of lintels/width of plates, reported to the Structural Engineer, and adjusted accordingly.

The Ramboll narrative & commentary is provided to explain the detail and assumptions taken by Ramboll to provide clarity on an appropriate BWIC support detail in each instance.

Duplicate references **Team to review** **Denotes the assumed wall thickness.**

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
GF-R05-BW03	LG	Type 8	Wall Penetration over 3500mm	LG-R05	GF-R05	90	Q loc snake	500	217	3000	No	N/A	N/A	3	Issued as IN ABEYANCE, awaiting response from Purcell. Modelling error - to be reviewed & updated.
LG-001-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01g	LG-001	60		1271	274	700	No	Type 4	3	2	Width 1271 , Height 700 - Allow for a Type 4 lintel, to be reviewed on site.
LG-001-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01k	LG-001	N/A		400	870	300	No	Type 3	9	2	Width = 400, Height = 300. Apply detail type 3 angled through wall, service coordination to be checked.
LG-004-BW01	LG	Type 18	Altered Window for services penetration	LG-004	EXTERNAL	N/A		140	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-004-BW02	LG	Type 18	Altered Window for services penetration	LG-004	EXTERNAL	N/A		140	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-004-BW03	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-005	LG-004	N/A		652	380	510	Yes	Type 5	7	3	Width, 380, height, 510. BWIC Satisfies Ramboll Type 5. No services running through BWIC.
LG-005a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-004b	LG-005a	90		716	686	400	No	Type 3	8	3	Width 686, Height 400 - Satisfies Type 3. Repositioned as close to chimney breast as possible (approx. 30mm), to be reviewed with on site works for bearing of angle. Services coordination to be checked.
LG-005a-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-004b	LG-005a	90	Prop BWIC show on alts?	100	700	400	No	Type 3	1	2	Width 700, Height 400- Satisfies Type 3 however, Purcell to review - this appears to be through a shaft wall? Also this not shown on the BWIC plans.
LG-005-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-004	LG-005	N/A		700	550	350	No	Type 3	7	3	Width 550, Height 350 - Satisfies Type 3.
LG-005-BW02	LG	Type 18	Altered Window for services penetration	LG-005	EXTERNAL	N/A		140	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-005-BW03	LG	Type 18	Altered Window for services penetration	LG-005	EXTERNAL	N/A		140	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-006a-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-005	LG-006a	30		734	380	510	Yes	Type 5	8	2	Satisfies Ramboll Type 5
LG-006b-BW01	LG	Type 9	Through Fan Light	LG-C01	LG-006b	30		900	50	400	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-006b-BW03	LG	Type 9	Through Fan Light	LG-C01	LG-006b	30	proprietary firestopping product selected by ARUP for high level temporary AV cabling	265	552	200	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-006b-BW04	LG	Type 9	Through Fan Light	LG-C01	LG-006b	30		732	552	600	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-006-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-R03	LG-006	30	query modelling	700	1220	400	No	Type 4	7	2	Width 1220, Height 400 - Satisfies Type 4. Services to be checked.
LG-006-BW02	LG	Type 9	Through Fan Light	LG-C01	LG-006	30		1190	552	500	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll. Services to be checked.
LG-007-BW01	LG	Type 9	Through Fan Light	LG-C01	LG-007	30	Q loc snake	898	140	200	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-007-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01	LG-007	30	Q loc snake	898	1445	200	No	Type 4	15	2	Width 898, Height 200 - Satisfies Type 4. Under stairs. (Touches Type 9, through fan light) to be reviewed if this is to be applied across the full under stair width (1445) and how to construct this.
LG-007-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-007	EXTERNAL	N/A	SERVICES NEEDED LOWER	622	1193	300	No	Type 3	12	2	Width 622, Height 300 - Satisfies Type 3, plate to be 15mm thk instead of 10mm thk. Services to be coordinated. Check room referencing.
LG-008a-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution Varied Sizes	LG-009a	LG-010a	N/A		550	750	3200	Yes	N/A	N/A	3	Ramboll assume this is not structural. BWIC noted as full height however existing opening seems smaller.
LG-008-BW01	LG	Type 8	Wall Penetration over 3500mm	LG-007	LG-008	90	Drill from heritage store (high level) through to behind metal grided fixed furniture, allow for power and data supply and adaptation to metalwork grill for access	991	350	150	No	Type 3	10	2	Width 350, Height 150 - Satisfies Type 3
LG-009a-BW01	LG	Type 18	Altered Window for services penetration	LG-009a	EXTERNAL	N/A		96	935	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-009a-BW02	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution Varied Sizes	LG-009a	LG-010a	N/A		680	750	3200	Yes	N/A	N/A	3	Ramboll assume this is not structural. BWIC noted as full height however existing opening seems smaller.

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-009a-BW03	LG	Type 18	Altered Window for services penetration	LG-009a	EXTERNAL	N/A		96	935	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-009a-BW04	LG	Type 18	Altered Window for services penetration	LG-009a	EXTERNAL	N/A		192	847	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-010-BW01	LG	Type 9	Through Fan Light	LG-C01	LG-010	30		947	162	400	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-011a-BW01	LG	Type 18	Altered Window for services penetration	LG-011a	EXTERNAL	N/A		96	917	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-011a-BW02	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-010a	LG-011a	N/A		400	750	3200	Yes	Type 5	4	3	Issued as IN ABEYANCE, Ramboll assume this is not structural. BWIC noted as full height however existing opening seems smaller. Based on type description, assume 510x380. Purcell to review & confirm.
LG-012a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-012	LG-012a	30		411	220	200	No	Type 3	5	2	Width 200, Height 200 - Satisfies Type 3, services to be coordinated.
LG-012-BW01	LG	Type 18	Altered Window for services penetration	LG-012	EXTERNAL	N/A		96	762	2000	Yes	N/A	N/A	3	Full height of window. No action required from Ramboll.
LG-012-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - Varied Sizes	LG-011a	LG-012	30		542	200	540		N/A	N/A	3	BWIC Removed
LG-012-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-012	LG-012	90		872	160	200	No	Type 4	2	2	Width 872, Height 200 - Satisfies Type 4
LG-012-BW04	LG	Type 18	Altered Window for services penetration	LG-012	EXTERNAL	N/A		189	681	850	Yes	N/A	N/A	2	Top half of window to be changed to a vent. No action required from Ramboll.
LG-012-BW05	LG	Type 18	Altered Window for services penetration	LG-012	EXTERNAL	N/A		454	688	850	Yes	N/A	N/A	2	Bottom half of window. No action required from Ramboll.
LG-012-BW06	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-012	EXTERNAL	N/A		173	205	350	No	Type 3	2	2	Width 205, Height 350 - Satisfies Type 3
LG-012-BW07	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-012	LG-012	90		1582	300	200	No	Type 4	3	2	Width 1582, Height 200 - Allow for Type 4 services to be coordinated.
LG-013-BW01	LG	Type 8	Wall Penetration over 3500mm	LG-012	LG-013	N/A				200	No	N/A	N/A	3	Size of BWIC reduced, 200mm core drill. To be coordinated on site with neighbouring steel & associated padstone.
LG-015-BW01	LG	Type 9	Through Fan Light	LG-C01n	LG-015	90	BWIC within structural arched opening	748	1026	300	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-015-BW02	LG	Type 18	Altered Window for services penetration	LG-015	EXTERNAL	N/A		293	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-015-BW03	LG	Type 18	Altered Window for services penetration	LG-015	EXTERNAL	N/A		293	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-016-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-015	LG-016	N/A		660	380	510	Yes	Type 5	4	3	Assume Ramboll Type 5. BWIC size to be reviewed on site. BWIC noted as existing.
LG-016-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-015	LG-016	N/A		499	667	600		N/A	N/A	3	BWIC removed. This is no longer on the Purcell schedule, however should be included for history.
LG-016-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02a	LG-016	60	BWIC within structural arched opening	1000	1572	400	No	N/A	N/A	2	Width 1572, Height 400 - Purcell confirmed, Arup to lower services to coordinate with existing structure. Locate BWIC at top of infill. Services & BWIC size to be reviewed.
LG-016-BW04	LG	Type 6	Wall Penetration under 1500mm	LG-015	LG-016	N/A		600	800	400	No	Type 3	8	3	Width 600, Height 400 - Satisfies Type 3. Next to perimeter detail LG-016-BW01 (previously confirmed this was to be removed, however this is still present.) To be coordinated during construction with temporary works.
LG-016-BW05	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-015	LG-016	N/A		1400	667	600	No	S-1000	N/A	2	Width 1400, Height 600 - Refer to S-1000. Surrounded by numerous holes review with GF-R09-BW01 and coordinate around existing beams.
LG-016-BW06	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-015	LG-016	N/A		400	667	400	No	Type 3	7	2	Width 400, Height 400 - Satisfies Type 3.
LG-016-BW07	LG	Type 18	Altered Window for services penetration	LG-016	EXTERNAL	N/A		389	1050	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-016-BW08	LG	Type 18	Altered Window for services penetration	LG-016	EXTERNAL	N/A		370	1083	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-017-BW01	LG	Type 18	Altered Window for services penetration	LG-017	EXTERNAL	N/A		374	1050	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-017-BW02	LG	Type 18	Altered Window for services penetration	LG-017	EXTERNAL	N/A		374	1050	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-017-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02c	LG-017	120	Q loc snake	350	886	350	No	Type 4	4	2	Width 886, Height 350. Satisfies Type 4
LG-017-BW04	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-016	LG-017	120		1092	380	510	Yes	Type 5	11	3	BWIC Satisfies Type 5. Needs to be coordinated (moved up) within the model. Services to be coordinated.
LG-018-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-017	LG-018	120		644	380	510	Yes	Type 5	7	2	Satisfies Ramboll Type 5
LG-018-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02	LG-018	60	DEMOLITION IN WRONG PLACE	750	450	400	No	Type 3	8	2	Width 450, Height 400 - Satisfies Type 3
LG-019-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-018	LG-019	N/A		280	380	510	Yes	Type 5	3	2	Satisfies Ramboll Type 5

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-019-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02	LG-019	60	BWIC within structural arched opening	280	1600	400	No	N/A	N/A	2	Width 1600, Height 400. BWIC to be created to soffit of existing arch.
LG-020a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02	LG-020a	60	Q loc snake	800	1600	400	No	N/A	N/A	3	Width 1600, Height 400. The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. BWIC size to be reviewed, masonry piers to remain.
LG-020a-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-019	LG-020a	N/A	BWIC within structural arched opening	500	296	250	No	Type 3	3	2	Width 500, Height 250 - Satisfies Type 3
LG-020-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-019	LG-020	N/A		646	380	510	Yes	Type 5	7	2	Satisfies Ramboll Type 5.
LG-021a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02	LG-021a	60		250	1593	500	No	N/A	N/A	3	Width 1593, Height 500. The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. No services, to be reviewed.
LG-021a-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-020a	LG-021a	N/A	BWIC within structural arched opening	500	278	250	No	Type 3	3	2	Width 500, Height 250 - Satisfies Type 3
LG-021-BW01	LG	Type 13	Perimeter Masonry wall, often widening existing penetrations (below 1500mm) to run primary distribution - 510x380	LG-020	LG-021	N/A		247	380	510	Yes	Type 5	3	2	Satisfies Ramboll Type 5.
LG-024a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-021	LG-024a	N/A		100	200	100	Yes	N/A	N/A	3	Width 100, Height 100 - To be cored through the wall / under soffit of the arch, no action from Ramboll.
LG-024a-BW02	LG	Type 17	Opening in Existing/Moat Wall	LG-021a	LG-024		Existing incoming water point in external wall	1074	441	250	Yes	N/A	N/A	2	Existing void and services, no action required from Ramboll.
LG-024-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-021a	LG-024		BWIC within structural arched opening	500	617	250	No	N/A	N/A	3	Width 500, Height 250 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. Services to be coordinated into this zone.
LG-025-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-025	EXTERNAL	N/A	Louvre type?	420	200	230	No	Type 3	5	2	Width 200, Height 230 - Satisfies Type 3
LG-025-BW02	LG	Type 18	Altered Window for services penetration	LG-025	EXTERNAL	N/A	Louvre type?	306	498	500	Yes	N/A	N/A	2	Width 498, Height 500. BWIC to allow services. No action required from Ramboll
LG-025-BW03	LG	Type 18	Altered Window for services penetration	LG-025	EXTERNAL	N/A	Louvre type?	450	498	500	Yes	N/A	N/A	2	Width 498, Height 500. BWIC to allow services. No action required from Ramboll
LG-025-BW04	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-024	LG-025	60		1150	245	300	No	N/A	N/A	3	Width 1150, Height 300 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. Services to be checked.

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-026-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-025	LG-026	N/A	BWIC within structural arched opening	1731	200	600	No	N/A	N/A	3	Width 1731, Height 600 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. Services to be checked with size of BWIC.
LG-027a-BW01	LG	Type 18	Altered Window for services penetration	LG-027a	EXTERNAL	N/A		410	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-027a-BW02	LG	Type 18	Altered Window for services penetration	LG-027a	EXTERNAL	N/A		416	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-027b-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-027a	LG-027b	N/A	BWIC within structural arched opening	1400	400	500	No	N/A	N/A	3	Width 1400, Height 500 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. Services to be checked.
LG-027b-BW02	LG	Type 18	Altered Window for services penetration	LG-027b	EXTERNAL	N/A		476	1000	1435	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll. Service size to be reviewed.
LG-027b-BW03	LG	Type 18	Altered Window for services penetration	LG-027b	EXTERNAL	N/A		454	1000	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-027-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-026	LG-027	120	BWIC within structural arched opening	2300	600	300	No	N/A	N/A	3	Width 2300, Height 300 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services.
LG-027c-BW01	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-027	LG-027c	N/A		449	1105	1325	Yes	S-4710	N/A	2	Refer to Ramboll drawing OTH-RAM-TH-LG-DWG-S-4710
LG-028a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-027c	LG-028a	120	BWIC within structural arched opening	1293	749	600	No	N/A	N/A	3	Width 1293, Height 600 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services.
LG-028a-BW02	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-C03	LG-028a	60		686	914	200	Yes	Type 4	7	2	Width, 914, height, 200. Services not modelled. Allow for Type 4, to be coordinated.
LG-028b-BW01	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-027b	LG-028b	N/A		458	877	1325	Yes	S-4710	N/A	2	Refer to Ramboll drawing OTH-RAM-TH-LG-DWG-S-4710
LG-028b-BW02	LG	Type 17	Opening in Existing/Moat Wall	LG-028b	EXTERNAL	120	Existing incoming ENWL utilities point to be reused	366	1266	500	Yes	External detail required to be developed with contractor	N/A	2	Incoming services ENWL point not modelled. 1266W x 500D, wall thickness = 366 - same thickness as LG-028b-BW03? Ramboll suggest this is core drilled and the structural implications are to be reviewed and coordinated with substructure works following input from ENW.
LG-028b-BW03	LG	Type 17	Opening in Existing/Moat Wall	LG-028b	EXTERNAL	120	New incoming power point from below external FFL through masonry wall	380	1254	500	No	External detail required to be developed with contractor	N/A	2	New incoming power point. 1254W x 500D, wall thickness = 380 same wall - same thickness as LG-028b-BW02? Ramboll suggest this is core drilled and the structural implications are to be reviewed and coordinated with substructure works following input from ENW.
LG-028b-BW04	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-027b	LG-028b	120	BWIC within structural arched opening	1293	749	600	No	N/A	N/A	3	BWIC Removed
LG-028-BW01	LG	Type 17	Opening in Existing/Moat Wall	LG-028	EXTERNAL	N/A		497	400	400	No	External detail required to be developed with contractor	N/A	2	Ramboll suggest the structural implications are to be reviewed and coordinated with substructure works following input from ENW. W=400mm

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-028-BW02	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-027c	LG-028	N/A		449	715	1325	Yes	S-4710	N/A	2	Refer to Ramboll drawing OTH-RAM-TH-LG-DWG-S-4710
LG-028e-BW01	LG	Type 18	Altered Window for services penetration	LG-028e	EXTERNAL	N/A	Historic window which has since been filled in to be altered to become louvred opening ventilating plant rooms	869	1000	2000	Yes	N/A	N/A	2	Assume full height of filled window being used. No action required from Ramboll.
LG-028e-BW02	LG	Type 18	Altered Window for services penetration	LG-028e	EXTERNAL	N/A	Historic window which has since been filled in to be altered to become louvred opening ventilating plant rooms	869	1000	2000	Yes	N/A	N/A	2	Assume full height of filled window being used. No action required from Ramboll. Service position to be coordinated.
LG-028f-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-028g	LG-028f	N/A		1010	135	300	Yes	Type 4	2	2	Width, 1010, height, 300 Satisfies Ramboll Type 4. Services to be checked.
LG-028g-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-028	LG-028g	N/A		1010	584	300	Yes	Type 4	6	2	Width, 1010, height, 300 Satisfies Ramboll Type 4. Services to be checked.
LG-032a-BW01	LG	Type 18	Altered Window for services penetration	LG-032a	EXTERNAL	N/A	QUERY TYPE	900	1353	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-034-BW01	LG	Type 6	Wall Penetration under 1500mm	LG-C04b	LG-034	N/A		500	281	200	No	Type 3	3	3	Width 500, Height 200 - Satisfies Type 3.
LG-036a-BW01	LG	Type 18	Altered Window for services penetration	LG-036a	EXTERNAL	N/A	QUERY TYPE	200	984	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-036a-BW02	LG	Type 18	Altered Window for services penetration	LG-036a	EXTERNAL	N/A	QUERY TYPE	200	981	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-036a-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-034	LG-036a	90	BWIC within structural arched opening	3720	522	800	No	N/A	N/A	3	Width 3720, Height 800 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services.
LG-036-BW01	LG	Type 6	Wall Penetration under 1500mm	LG-036a	LG-036	90		382	799	400	No	N/A	N/A	3	Width 382, Height 400 - The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. Services to be checked.
LG-038b-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-035	LG-038b	N/A		2730	575	1000	No	Type 8	6	3	Width 2730, Height 1000 - Services to be coordinated, Type 8, arch soffit detail to be included. Additional 2 no. PFC's to be included and fixed to the remaining wall to provide restraint, detail to be discussed for temporary works on site.
LG-043b-BW01	LG	Type 9	Through Fan Light	LG-C01	LG-043b	120		450	225	200	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-043-BW01	LG	Type 18	Altered Window for services penetration	LG-043	EXTERNAL	N/A		600	254	2000	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-043c-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-043	LG-043c	N/A		477	1052	300	No	Type 4	3	3	Width 1052, Height 477, Satisfies Type 4.
LG-043d-BW01	LG	Type 9	Through Fan Light	LG-C01	LG-C043d	N/A		909	753	500	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-046a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05g	LG-046a	N/A		547	384	200	No	Type 3	6	2	Width 384, Height 200 - Satisfies Type 3
LG-046b-BW01	LG	Type 18	Altered Window for services penetration	LG-046b	EXTERNAL	N/A		228	1300	600	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll. Service to be checked.
LG-046d-BW01	LG	Type 18	Altered Window for services penetration	LG-046d	EXTERNAL	N/A		243	1400	600	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll. Service to be checked.
LG-046e-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05	LG-046e	N/A		597	889	200	No	Type 4	6	2	Width 889, Height 200 - Satisfies Type 4, services to be checked.
LG-053-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05e	LG-053	60		611	367	500	No	Type 3	4	3	Width 611, Height 500 - Satisfies Type 3, plate to be 20mm thk instead of 10mm thk. Services to be coordinated.
LG-053-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05e	LG-053	60		611	378	200	No	Type 3	4	3	Width 611, Height 200 - Satisfies Type 3, plate to be 20mm thk instead of 10mm thk. Services to be coordinated.
LG-053-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05e	LG-053	60		611	384	400	No	Type 3	4	3	Width 611, Height 400 - Satisfies Type 3, plate to be 20mm thk instead of 10mm thk. Services to be coordinated.
LG-053-BW04	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05e	LG-053	60		400	416	200	No	Type 3	5	3	Width 400, Height 200 - Satisfies Type 3 plate to be 15mm thk instead of 10mm thk.

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-054-BW01	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	EXTERNAL	LG-054	N/A		627	772	400	Yes	S-4711	N/A	2	Refer to detail on S-4711
LG-054-BW02	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	EXTERNAL	LG-054	N/A		627	1128	400	Yes	S-4711	N/A	2	Refer to detail on S-4711
LG-054-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-R26	LG-054	90		368	1000	600	No	Type 4	4	3	Width 1000, Height 600 - Satisfies Type 4. Services to be coordinated. BWIC to be reviewed with beam arrangement onsite.
LG-054-BW04	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-R26	LG-054	90		500	1434	600	No	Type 4	5	3	Width 1434, Height 600 - Satisfies Type 4. BWIC to be reviewed with depth of walls and beam arrangement onsite. Allow for additional lintel.
LG-054-BW05	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-R26	LG-054	90		500	373	600	No	Type 3	4	2	Width 500, Height 600 - Satisfies Type 3
LG-054-BW06	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-057b	LG-054	N/A		876	710	600	No	Type 3	8	3	Width 876, Height 600 - Satisfies Type 3, due to proximity to soffit. Plate to be 20mm thk instead of 10mm thk.
LG-054-BW07	LG	Type 9	Through Fan Light	LG-054	EXTERNAL	N/A		239	1061	600	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-054-BW08	LG	Type 18	Altered Window for services penetration	LG-054	EXTERNAL	N/A		244	1200	2400	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-054-BW09	LG	Type 18	Altered Window for services penetration	LG-054	EXTERNAL	N/A		244	1200	2400	Yes	N/A	N/A	2	Full height of window. No action required from Ramboll.
LG-056-BW01	LG	Type 6	Wall Penetration under 1500mm	LG-C05a	LG-056	60		168	676	300	No	Type 5	7	2	Width 168, Height 300 - No services, below floor level, BWIC to be reviewed, treat as perimeter service trench - Ramboll Type 5
LG-056-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-R23	LG-056	90		300	1000	600	No	Type 4	3	2	Width 1000, Height 600 - Satisfies Type 4. Services to be checked.
LG-056-BW03	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-R23	LG-056	N/A		323	1010	800	Yes	Type 3	4	2	Width, 1010, depth, 800. BWIC size to be reviewed, no space to provide a Type 4 detail. Ramboll assume this BWIC can be reduced to 750mm max wide, therefore allow for a Type 3 detail, this has not been confirmed by Purcell.
LG-057a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-057a	EXTERNAL	N/A	Existing stonework to be reused and altered to widen the door, BWIC to be created over door as part of works	363	930	500	Yes	Type 4	4	2	Width 930, Height 500 - Satisfies Type 4.
LG-057a-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-S15	LG-057a	90	Existing stonework to be reused and altered to widen the door, BWIC to be created over door as part of works	327	743	400	No	Type 3	8	2	Width 327, Height 400 - Satisfies Type 3
LG-057a-BW03	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-S15	LG-057a			759	1010	800	Yes	S-4710	N/A	3	Refer to Ramboll drawing OTH-RAM-TH-LG-DWG-S-4710
LG-057b-BW01	LG	Type 9	Through Fan Light	LG-057b	EXTERNAL	N/A		239	965	600	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-057-BW01	LG	Type 18	Altered Window for services penetration	LG-057	EXTERNAL	N/A	Existing door to be replaced with full sized louvred opening	305	792	2000	Yes	N/A	N/A	2	Full height of door. No action required from Ramboll.
LG-057-BW02	LG	Type 18	Altered Window for services penetration	LG-057	EXTERNAL	N/A	Use openings of existing fan light to be louvred for ventilation	338	2277	400	Yes	N/A	N/A	2	Assume arch not altered, service to soffit of arch. Assume not structural, no action required from Ramboll.
LG-058-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-038	LG-058	N/A		2159	367	650	No	Type 8	4	3	New BWIC, satisfies Ramboll Type 8.
LG-C01-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01g	LG-C01	30		1799	362	800	No	Type 4	4	2	Width 1799, Height 800 - Satisfies Type 4, another Lintel noted on S-1000, for wall removal and door frame out.
LG-C01-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01g	LG-C01	30	query modelling	750	409	600	No	Type 3	5	3	Width 750, Height 600 - Satisfies Type 3.
LG-C01d-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-039	LG-C01d	120		2776	319	750	No	Type 8	4	2	Width 2776, Height 750 - Satisfies Type 8
LG-C01e-BW01	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-039	LG-C01e	120	Q loc snake	783	300	300	Yes	Type 3	8	2	Width, 300, height, 300. BWIC to help service riser. No services going through. Satisfies Type 3.
LG-C01g-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01k	LG-C01g	60		100	1494	500	No	N/A	N/A	3	Width 1494, Height 500. The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services. Services to be checked & Wall thickness to be reviewed.

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-C01g-BW02	LG	Type 18	Altered Window for services penetration	LG-C01k	LG-C01g	60		350	1494	500	Yes	N/A	N/A	3	BWIC Removed
LG-C01g-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01g	LG-C01g	60	LOOKS TO BE DEMOLISHED	1201	287	300		Type 4	3	3	Width 1201, Height 300 - Tight up to existing arch. 2 sides of the wall do not have the same structural solution, the existing arch should remain and a lintel (Ramboll Type 4 detail) to be installed from one side. u/s of lintel = top of arch. Temporary works to be needed high. To be discussed prior to site works.
LG-C01i-BW01	LG	Type 8	Wall Penetration over 3500mm	LG-C01i	LG-C01i	30		820	306	600	No	N/A	N/A	3	BWIC Removed
LG-C01k-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01e	LG-C01k	N/A		1100	1143	500	No	S-1501	N/A	3	BWIC Removed
LG-C01i-BW01	LG	Type 9	Through Fan Light	LG-C01	LG-C01i	N/A		909	753	500	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C01i-BW02	LG	Type 9	Through Fan Light	LG-C01	LG-C01i	N/A	proprietary firestopping product selected by ARUP for high level temporary AV cabling	100	753	100		N/A	N/A	2	No structural alteration, no action from Ramboll. Intersects with LG-C01i-BW01
LG-C01m-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01n	LG-C01m	90	new bwic after workshop, door clashes?	269	973	300	Yes	Type 4	3	2	Width 973, Height 300 - Satisfies Type 4. Services to be checked.
LG-C01n-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01a	LG-C01n	90	new bwic after workshop, door clashes?	563	581	300	No	Type 3	6	3	BWIC Removed
LG-C01n-BW02	LG	Type 9	Through Fan Light	LG-011	LG-C01n	30	Through Window	828	162	700	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C01n-BW03	LG	Type 9	Through Fan Light	LG-C01	LG-C01n	90		372	922	750	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C01n-BW04	LG	Type 9	Through Fan Light	LG-C01	LG-C01n	90		372	922	750	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C01n-BW05	LG	Type 9	Through Fan Light	LG-011	LG-C01n	90	Through Window	1035	835	700	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C01n-BW06	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-011	LG-C01n	90	BWIC within structural arched opening	563	904	300		N/A	N/A	3	The assumptions to date have assumed that the BWIC can be detailed to the soffit of the arch with no structural interventions (as per existing BWIC's at LGF). Focused, local removal of the inner arch / infill panel will confirm this assumption. If a clean radial joint is present, the outer arch works independently of the infill masonry panel below. If this is found to not be the case a bespoke detail is to be developed and coordinated with the services.
LG-C02a-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01n	LG-C02a	90		2400	495	1000	No	Type 8	5	2	Width 2400, Height 1000 - Satisfies Type 8
LG-C02b-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02b	LG-C02b	N/A		466	1519	500	No	S-1501	N/A	2	Width 1519, Height 500 - Refer to detail on S-1501
LG-C02b-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02a	LG-C02b	120		2400	400	1000	No	Type 8	4	2	Width 2400, Height 1000 - Satisfies Type 8
LG-C02-BW01	LG	Type 14	Drill through masonry wall and surface finishes to run minute cabling in more significant spaces	EXTERNAL	LG-C02	N/A		35	1055	35	No	N/A	N/A	2	No action required from Ramboll
LG-C02-BW02	LG	Type 9	Through Fan Light	EXTERNAL	LG-C02	N/A	Using damaged pane BWIC passing through fan light over door for domestic water, single pipe up to toilets	35	283	35		N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C02-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02b	LG-C02	120		2692	376	1000	No	Type 8	4	2	Width 2692, Height 1000 - Satisfies Type 8
LG-C02-BW04	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02	LG-C02	N/A	Protect and retain fireplace insitu, BWIC at high level only	1282	1458	1000		Type 8	15	2	Width 1282, Height 1000 - Satisfies Type 8
LG-C02-BW05	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-C02	EXTERNAL	30		940	1226	200		External detail required to be developed with contractor	N/A	2	No services modelled. Ramboll suggest the structural implications are to be reviewed and coordinated with substructure works.
LG-C02-BW06	LG	Type 15	Adaptation to existing window to allow penetration of services externally	LG-C02	EXTERNAL	N/A	Heritage windows, metal mullions and transoms to remain intact, top two panes removed to allow for services distribution	98	521	750	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
											No				

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-C02-BW07	LG	Type 15	Adaptation to existing window to allow penetration of services externally	LG-C02	EXTERNAL	N/A	Heritage windows, metal mullions and transoms to remain intact, top two panes removed to allow for services distribution	90	538	750	No	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C02c-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02b	LG-C02c	120	Q loc snake	750	886	350	No	Type 4	8	2	Width 889, Height 350 - Satisfies Type 4
LG-C03-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C02	LG-C03	30		1774	500	1000	No	Type 4	5	2	Width 1774, Height 1000 - Satisfies Type 4.
LG-C03-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-028	LG-C03	120		661	1000	500	No	Type 4	7	2	Width 1000, Height 500 - Satisfies Type 4. Services to be checked
LG-C03-BW03	LG	Type 9	Through Fan Light	LG-028	LG-C03	60	BWIC within pointed arch fan light	661	1090	400	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C03d-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C03c	LG-C03d	60		306	620	200	No	Type 3	7	3	Width 306, Height 200 - Satisfies Type 3 - Services to be coordinated. Adjacent services (not in a BWIC) through the arch are not allowed.
LG-C04b-BW01	LG	Type 15	Adaptation to existing window to allow penetration of services externally	LG-C04b	EXTERNAL	N/A		500	680	400	No	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C04-BW01	LG	Type 9	Through Fan Light	LG-C04	EXTERNAL	N/A		239	1151	800	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C04-BW02	LG	Type 8	Wall Penetration over 3500mm	LG-C03	LG-C04	30	NO SNAKE	2684	438	1200	No	Type 8	5	2	Width 2684, Height 1200 - Piers of walls need to remain. Satisfies Type 8
LG-C04-BW04	LG	Type 15	Adaptation to existing window to allow penetration of services externally	LG-C04	EXTERNAL	N/A	Heritage windows, metal mullions and transoms to remain intact, top two panes removed to allow for services distribution	239	580	800	No	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C04-BW05	LG	Type 15	Adaptation to existing window to allow penetration of services externally	LG-C04	EXTERNAL	N/A	Heritage windows, metal mullions and transoms to remain intact, top two panes removed to allow for services distribution	239	580	800	No	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-C05a-BW01	LGA	Type 6	Wall Penetration under 1500mm	LG-046d	LG-C05a	N/A		218	379	200	No	Type 3	4	3	Revised to not structural, Purcell Type 11, not included on this schedule.
LG-C05-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C05e	LG-C05	N/A		535	664	200	No	Type 3	6	2	Width 664, Height 200 - Satisfies Type 3
LG-C05e-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05e	N/A		611	367	200	No	Type 3	4	3	Width 611, Height 200 - Satisfies Type 3, plate to be 20mm thk instead of 10mm thk. Services to be checked.
LG-C05e-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05e	N/A		611	378	200	No	Type 3	4	3	Width 611, Height 200 - Satisfies Type 3, plate to be 20mm thk instead of 10mm thk. Services to be checked.
LG-C05e-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05e	N/A		611	384	400	No	Type 3	4	3	Width 611, Height 200 - Satisfies Type 3, plate to be 20mm thk instead of 10mm thk. Services to be checked.
LG-C05g-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05g	N/A		535	444	200	No	Type 3	6	2	Width 444, Height 200 - Satisfies Type 3 - To be chased into the wall to provide the appropriate bearing. No services, to be coordinated.
LG-C05g-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05g	N/A		535	444	200	No	Type 3	6	2	Width 444, Height 200 - Satisfies Type 3
LG-C05g-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05g	N/A		535	444	200	No	Type 3	6	2	Width 444, Height 200 - Satisfies Type 3
LG-C05g-BW04	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-046	LG-C05g	N/A		535	444	200	No	Type 3	6	2	Width 444, Height 200 - Satisfies Type 3
LG-E5-BW01	LG	Type 17	Opening in Existing/Moat Wall	ALBERT SQU MOAT WALL	ALBERT SQU MOAT WALL			650	619	750	No	External detail required to be developed with contractor	N/A	3	Purcell details shown OTH-PUR-EX-ZZ-DWG-A-4121 (4122 and 4123) need to be reviewed and coordinated with structural implications and substructure works in relation to the retained ground material and water pressure with a circular service through a square BWIC. Ramboll suggest this is core drilled.
LG-E5-BW02	LG	Type 17	Opening in Existing/Moat Wall	ALBERT SQU MOAT WALL	ALBERT SQU MOAT WALL			650	619	750	No	External detail required to be developed with contractor	N/A	3	Purcell details shown OTH-PUR-EX-ZZ-DWG-A-4121 (4122 and 4123) need to be reviewed and coordinated with structural implications and substructure works in relation to the retained ground material and water pressure with a circular service through a square BWIC. Ramboll suggest this is core drilled.
LG-E5-BW03	LG	Type 17	Opening in Existing/Moat Wall	ALBERT SQU MOAT WALL	ALBERT SQU MOAT WALL			650	515	750	No	External detail required to be developed with contractor	N/A	3	Purcell details shown OTH-PUR-EX-ZZ-DWG-A-4121 (4122 and 4123) need to be reviewed and coordinated with structural implications and substructure works in relation to the retained ground material and water pressure with a circular service through a square BWIC. Ramboll suggest this is core drilled.

BWIC Number*	Level*	BWIC Type*	BWIC Type Description*	Room 1*	Room 2*	Fire Rating*	Comments*	Approx. Depth*	Approx. Width*	Approx. Height (above FFL)*	Existing Opening*	Ramboll Detail Reference	No. of Lintels	Revision	Ramboll Narrative & Commentary
LG-E5-BW04	LG	Type 17	Opening in Existing/Moat Wall	ALBERT SQU MOAT WALL	ALBERT SQU MOAT WALL			650	515	750	No	External detail required to be developed with contractor	N/A	3	Purcell details shown OTH-PUR-EX-ZZ-DWG-A-4121 (4122 and 4123) need to be reviewed and coordinated with structural implications and substructure works in relation to the retained ground material and water pressure with a circular service through a square BWIC. Ramboll suggest this is core drilled.
LG-E5-BW05	LG	Type 17	Opening in Existing/Moat Wall	ALBERT SQU MOAT WALL	ALBERT SQU MOAT WALL			650	515	750	No	External detail required to be developed with contractor	N/A	3	Purcell details shown OTH-PUR-EX-ZZ-DWG-A-4121 (4122 and 4123) need to be reviewed and coordinated with structural implications and substructure works in relation to the retained ground material and water pressure with a circular service through a square BWIC. Ramboll suggest this is core drilled.
LG-L01-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01d	LG-L01	120		760	550	300	No	Type 3	8	3	BWIC separated into 2 (reference LG-L01-BW02). Width, 550, Height, 300. Satisfies Type 3.
LG-L01-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01d	LG-L01	120		765	550	300	No	Type 3	8	3	New BWIC, (separated out from LG-L01-BW01), Width, 550, Height 300, Satisfies Type 3.
LG-L05-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C03c	LG-L05	60		229	593	200	No	Type 3	6	2	Width 229, Height 200 - Satisfies Type 3
LG-L05-BW02	LG	Type 15	Adaptation to existing window to allow penetration of services externally	LG-L05	EXTERNAL	N/A	New dry riser route to be coordinated with new access opening in former window	180	956	300	No	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-L05-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-L05	EXTERNAL	N/A	Alteration to former window to allow access into moat	1000	951	2100	No	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-L07-BW01	LG	Type 9	Through Fan Light	LG-C03b	LG-L07	60		814	1277	300	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-R21-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-059	LG-R21	120		215	281	220	No	Type 3	3	2	Width 215, Height 220 - Satisfies Type 3
LG-R23-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-054	LG-R23	90		368	750	600	No	Type 3	4	3	Width 750, Height 600 - Type 3, chased into perimeter wall to achieve the bearing for the plate.
LG-R26-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-053	LG-R26	90		500	627	600	No	Type 3	7	2	Width 500, Height 600 - Satisfies Type 3
LG-S05-BW01	LG	Type 9	Through Fan Light	LG-C01n	LG-S05	90	BWIC within structural arched opening	461	890	400	Yes	N/A	N/A	2	No structural alteration, no action from Ramboll.
LG-S05-BW02	LG	Type 6	Wall Penetration under 1500mm	LG-014	LG-S05	90		400	575	150	No	Type 3	6	3	BWIC Removed
LG-S10-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01	LG-S10	60		1058	780	300	No	Type 4	8	3	Width 1058, Height 300 - Satisfies Type 4.
LG-S10-BW02	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-C01g	LG-S10	60		810	755	300	No	Type 4	8	3	BWIC Removed
LG-S10-BW03	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-040	LG-S10	60		1299	627	300	No	Type 4	7	2	Width, 1299, height, 300. Satisfies Type 4, requirement to be reviewed, no services modelled and enters stair core.
LG-S15-BW01	LG	Type 7	Wall Penetration over 1500mm under 3500mm	LG-S15	EXTERNAL	N/A	Existing stonework to be reused and altered to widen the door, BWIC to be created over door as part of works	621	1064	500	No	S-1501	N/A	3	Issued as IN ABEYANCE, Width 1600, Height 500 - Refer to detail on S-1501. Previous noted as BWIC to be reviewed. Noted as Purcell Type 9 in the model which would be not structural. Purcell to confirm. Size TBC following RTA.
LG-S15-BW02	LG	Type 10	Opening to masonry wall, below FFL (which will require alterations to neighbouring finishes to access)	LG-056	LG-S15	N/A		360	1010	800	Yes	S-4711	N/A	2	Refer to detail on S-4711