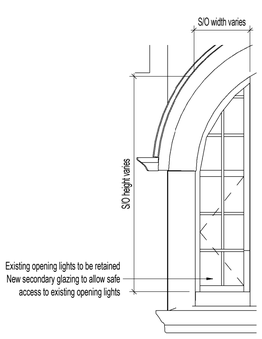
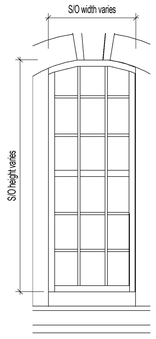
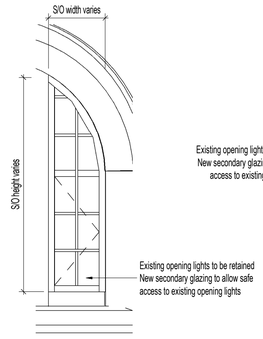
REPAIR METAL WINDOW TYPES:



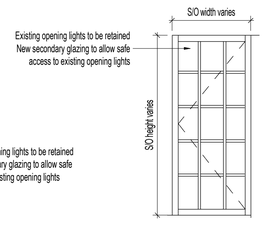
Window Type B
1 : 25



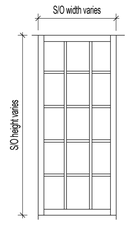
Window Type C
1 : 25



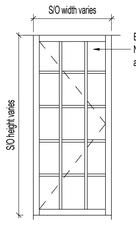
Window Type D
1 : 25



Window Type L
1 : 25



Window Type M
1 : 25



Window Type N
1 : 25

PROPOSED SCOPE OF RESTORATION WORKS TO EXISTING METAL WINDOWS (WINDOW TYPES B, C, D, L, M & N):

Preparation
- **Protection of Surrounding Areas:** Protect surrounding masonry, timber, and glazing from damage or contamination during repair works.
- **Removal of Debris:** Clean all surfaces of loose dirt, corrosion products, and biological growth using non-abrasive methods.
- **Temporary Glazing Protection:** Remove glazing, if necessary, and store safely to prevent damage.

Repair Procedures
- **Corrosion Removal:** Use hand tools, such as wire brushes or scrapers, to remove loose corrosion. For more stubborn corrosion, use low-pressure micro-abrasive techniques or chemical rust converters. Avoid sandblasting or other aggressive methods that may damage the metal surface.
- **Re-alignment of Frames:** Assess frames for distortion. Gently realign using controlled mechanical pressure, ensuring the integrity of the original material.
- **Window Furniture:** Repair all existing window furniture and replace severely corroded or missing sections using material matching the original in composition and profile (e.g., wrought iron or steel). Clearly identify and document new additions.

Surface Coating
- Prime exposed metal with a zinc-rich primer or other conservation-approved metal primer. Apply topcoats of high-quality, durable paint, selected to match the original finish where possible. Use microporous paint systems to all low moisture escape.

Glazing Repair and Replacement
- **Retention of Original Glass:** Salvage and re-install original glass where possible. Clean and repair cracked panes using resin bonding techniques. Remove paint from glass.
- **New Glazing:** Use historically accurate glazing with a matching profile, thickness, and color. Install with lime putty or conservation-compatible glazing compounds.

Maintenance and Aftercare
- Provide Clinet with a maintenance plan, including periodic inspections for corrosion or paint failure.
- Advise on the gentle cleaning of windows to avoid damage to finishes and surfaces.

300_Existing Metal Windows To Be Repaired

Window Number	Structural Opening Width (mm)	Structural Opening Height (mm)	Window Type	Comments
GL.03-W.09	521	1750	B	
GL.03-W.08	844	1882	C	
GL.03-W.07	524	1758	D	
GL.03-W.06	524	1756	B	
GL.03-W.05	844	1945	C	
GL.03-W.04	528	1784	D	
GL.03-W.03	524	1795	B	
GL.03-W.02	844	1945	C	
GL.03-W.01	521	1795	D	
GL.02-W.09	457	1795	B	
GL.02-W.08	710	1945	C	
GL.02-W.07	521	1795	B	
GL.02-W.06	457	1795	D	
GL.02-W.05	775	1945	C	
GL.02-W.04	521	1795	B	
GL.02-W.03	524	1795	B	
GL.02-W.02	844	1927	C	
GL.02-W.01	521	1767	D	
FL.01-W.15	712	1468	L	
FL.01-W.14	636	1468	M	
FL.01-W.13	708	1468	N	
FL.01-W.12	712	1468	L	
FL.01-W.11	498	1468	M	
FL.01-W.10	708	1468	N	
FL.01-W.09	668	1503	L	
FL.01-W.08	752	1503	M	
FL.01-W.07	650	1503	N	
FL.01-W.06	708	1468	L	
FL.01-W.05	776	1468	M	
FL.01-W.04	712	1468	N	
FL.01-W.03	708	1468	L	
FL.01-W.02	776	1468	M	
FL.01-W.01	712	1468	N	



Image 01 - Existing External Image of Metal Windows



Image 02 - Existing Internal Image of Metal Windows

NOTE: Images provided for reference only

REPAIR EXTERNAL DOOR TYPES:

Construction (Design and Management) Regulations

Design risk assessments are carried out throughout the design stage of this project in accordance with company procedures and manuals. Where reasonably possible all areas of risk applicable to design and end use of the construction have been identified and then eliminated, mitigated or recorded as a residual risk. Note that general risks of which a competent designer or contractor should be aware are not included. This drawing is to be read in conjunction with the Pre-construction Information and all related documents prepared in accordance with the current Construction (Design and Management) Regulations 2015 and all applicable Health and Safety legislation as currently amended.

PROPOSED SCOPE OF RESTORATION WORKS TO EXISTING ENTRANCE DOOR AND SCREEN:

Preparation
- **Protection of Surrounding Areas:** Protect surrounding masonry, timber, and glazing from damage or contamination during repair works.
- **Cleaning:** Clean timber surfaces with a damp sponge and mild soap solution. Avoid abrasive tools or harsh chemicals that could damage the patina.
- **Temporary Glazing Protection:** Remove glazing, if necessary, and store safely to prevent damage.

Timber Repairs - The existing door appears to be in good condition, with little to no repair to timber required. Below for guidance only:
- **Retention of Original Material:** Retain as much original timber as possible. Remove only sections beyond repair.
- **Removal of Decayed Timber:** Carefully cut out decayed timber using hand tools to avoid unnecessary damage to sound areas. Avoid overcutting and retain maximum historic material.

Timber Repair Techniques
- **Splicing and Patching:** Replace small areas of decay with new, matching timber (same species, grain, and finish). Use traditional carpentry joints such as scarf or dovetail.
- **Consolidation:** Apply low-viscosity epoxy or resin sparingly if deemed essential to stabilize localized decay (as per SPAB guidance).

Joints and Structural Repairs - if required
- Reinforce weakened joints using traditional pegged joinery or adhesive where necessary.
- Realign distorted or misaligned doors with care to avoid stressing historic materials.

Glass Repairs
- **Retention of Historic Glass:** Retain original glass wherever possible. Handle it carefully to avoid damage. Replace broken glass with hand-drawn or cylinder glass to match the original appearance and texture.
- **Reglazing:** Use linseed oil putty for reglazing, ensuring a neat finish and alignment with historic techniques. Avoid modern silicone sealants.
- **Replacement Glass:** Where replacement is essential, match the original pane's size, thickness, and appearance.

Ironmongery
- **Retention and Repair:** Retain and repair original ironmongery such as hinges, locks, and handles. Clean gently using a soft wire brush to remove rust. Apply a protective wax coating to prevent further corrosion.
- **Replacement**: Where replacement is unavoidable, source historically appropriate or salvaged ironmongery to match the style and period of the door.

Surface Treatments
- **Painting and Finishing:** Strip deteriorated paint layers carefully using low-temperature, non-caustic methods (e.g., steam or infrared tools). Refinish using breathable, microporous paints or traditional linseed oil paint, matching the original color scheme.

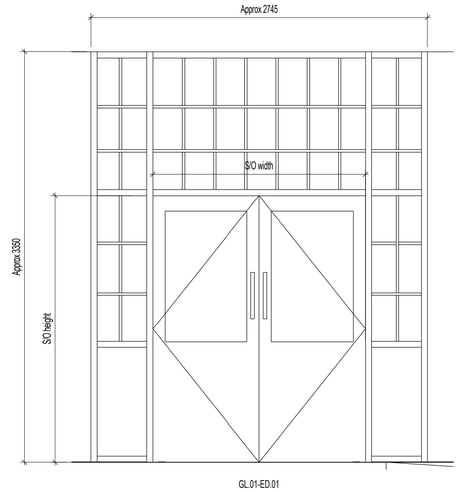
Weatherproofing
- **Inspect weatherproofing elements, such as thresholds and seals:** Replace worn components with materials that are compatible with the historic fabric. Install discreet brush or rubber seals if necessary for energy efficiency, ensuring they do not alter the door's visual appearance.

Maintenance and Aftercare
- Provide Client with a maintenance plan, including periodic inspections

Access Control Strategy
- To be agreed with Client. Existing cable routes and fixings locations to be retained where possible.

300_Existing External Doors to be Refurbished

Room Name	Door Number	Door Type	Structural Opening Width (mm)	Structural Opening Height (mm)
Entrance Lobby	GL.01-ED.01	EDT.02	As Existing Opening	As Existing Opening



GL.01-ED.01

EDT.02
1 : 25

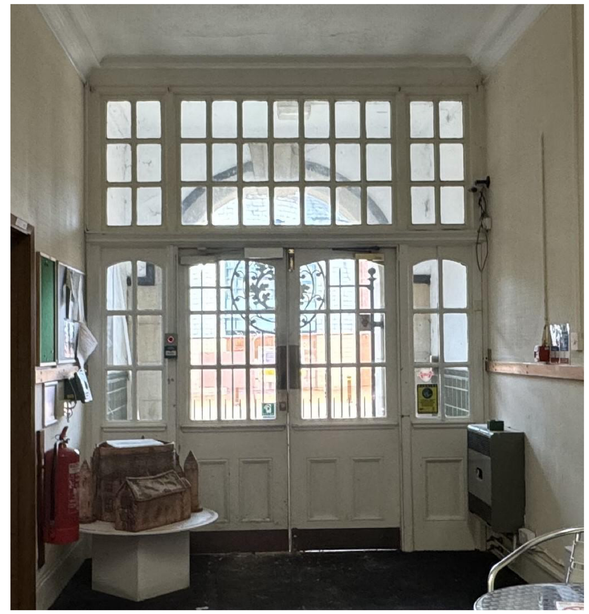


Image 03 - Existing Entrance Door and Glazed Screen

NOTE: Image for reference only

REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY	DATE
P01	Updated Stage 4 issue	CB	CB		19/11/2024
P00	Stage 4 issue	JT	CB		12/11/2024
C00	Restoration Pack First Issue	LP	RE	RE	25/09/2024

RIBA PLAN OF WORK WORKSTAGE: Stage 4 - Technical Design
LEVEL OF MODEL DEFINITION (LoD): LoD 3 - Approximate Model
PURPOSE OF ISSUE - SUITABLE FOR ...: Tender
STATUS or SUITABILITY: NA - Not Applicable

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CLIENT
Wrexham County Borough Council

PROJECT TITLE
Wrexham Old Library

DRAWING TITLE
Proposed Metal Windows & Timber Door Repairs

PROJECT No: 20045
SCALE @ A1: 1 : 25

DRAWING No (BS1192:2007 +A2:2016 & BS EN ISO19650): WOL-LAW-X-X-DR-**A-300102**
REVISION: **P01**

DO NOT SCALE

Any discrepancy or query concerning this drawing should be referred to the Architect
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Print Date: 20/11/2024 10:23:21

File Name: Autodesk Docs://20045_RefurbOldLibrary/WOL-LAW-X-X-M3-A-000002_Building.rvt