GENERAL SPECIFICATION COURTYARD FENCE

Proposed Specification for Courtyard Fence – Wrought Iron on Brick Plinth

1. General Overview

A durable boundary fence combining wrought iron panels with a brick plinth and pedestrian gate is proposed. The design provides both aesthetic appeal and structural integrity.

Total Height: 4 ft (1.2 m)
Plinth Height: 18 in (450 mm)
Ironwork Height: 30 in (750 mm)
Pedestrian Gate: 36 in (1000 mm)
Note that sizing subject to Installer confirmation.

2. Structural Composition

2.1 Brick Plinth

- Material: Reclaimed House bricks (similar in size to those used in the Workshop), laid in Flemish/Common bond pattern as appropriate to bricks used.
- Thickness: 200–250 mm.
- Height: 450 mm.
- Coping Stone: Reclaimed (where possible), Smooth_cut, chamfered top with 20–30 mm overhang on each side.
- Mortar Joints: 10–12 mm, lime_based mortar for breathability.
- Drainage: Slight slope on coping stones to shed water.

2.2 Wrought Iron Panels

- Material: Mild steel, hot_dip galvanised, powder_coated black.
- Panels Width: 2 x 1.5m. (10ft)
- Height Above Plinth: 750 mm.
- Vertical Bars (Pickets): 12–16 mm solid square bar (like Gate in style).
- Spacing: 50–60 mm clear between pickets.
- Rails: Two horizontal rails (top and bottom), optional mid_rail for rigidity.
- Finials: Spear_top (like Gate in style).

2.3 Posts

- Material: Mild steel galvanised and powder_coated.
- Dimensions: 50–75 mm square section.
- Mounting: Base plates with M12 anchor bolts or core_drilled sockets grouted into plinth. One with side plates for mounting on stone wall.
- Post Caps: Pyramid matching pickets.

2.4 Gate Assembly (use of reclaimed gate previously used within the garden of Bryn Eglwys)

- Width: 1.0 m pedestrian gate (reuse of existing 3–foot gate if refurbishment possible – see Photograph). If not reclaimable manufactured to a similar design.
- Hinges: Heavy_duty adjustable barrel hinges.
- Latch: Black powder_coated latch with mechanical catch. Lockable (using padlock)

3. Installation Guidelines

1. Foundation Preparation:
   - Excavate trench for plinth base (minimum depth 200 mm).
   - Pour concrete footing with reinforcement mesh if required.
2. Plinth Construction:
   - Lay brick courses with level and plumb alignment.
   - Install coping stones with slight fall for drainage.
3. Post Installation:
   - Drill anchor holes or embed sockets in plinth.
   - Align posts vertically, torque anchor bolts to manufacturer's specification.
4. Panel Mounting:
   - Bolt or weld panels between posts.
   - Ensure consistent spacing and alignment.
5. Gate Installation:
   - Fit hinges and latch; test swing and clearance. Adjust for smooth operation.

4. Maintenance Schedule

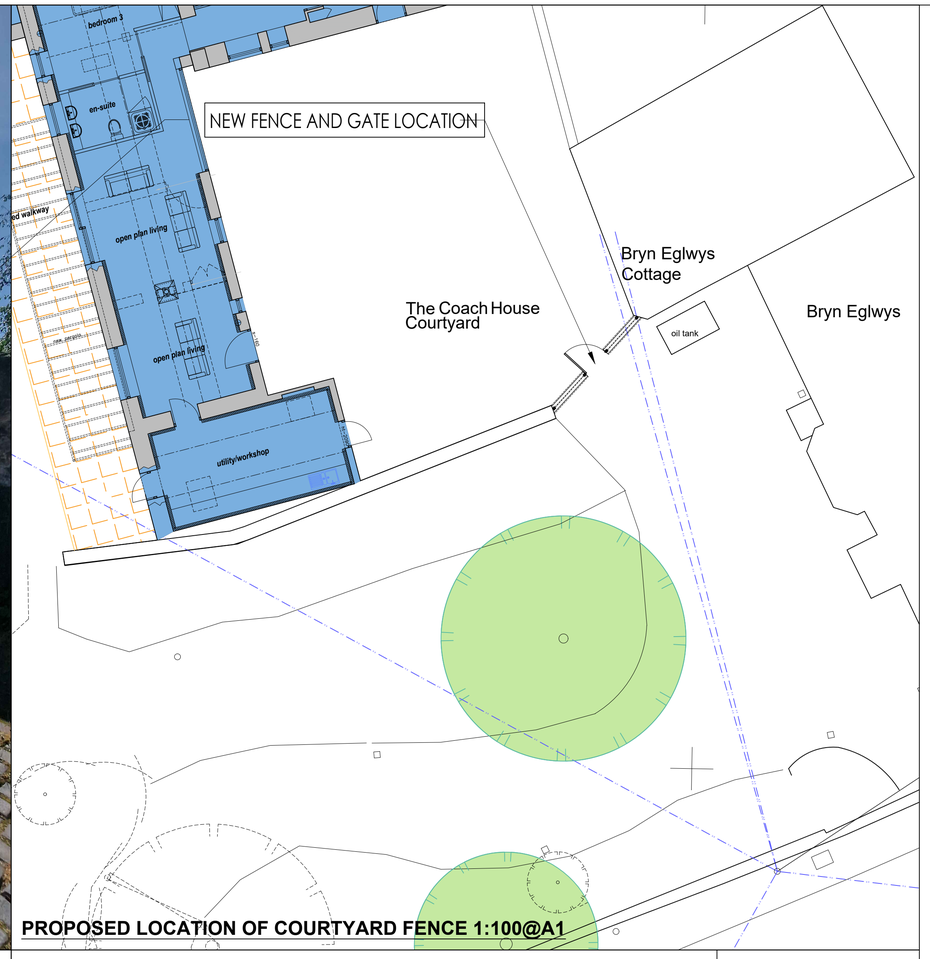
TaskFrequencyNotesInspect coating for chips or rustAnnuallyTouch up with matching paintClean ironworkTwice yearlyMild detergent and soft brushCheck gate hinges and latchQuarterlyLubricate moving partsInspect brick jointsEvery 2 yearsRepoint if mortar cracks

5. Bill of Materials (Run 3 m, 13–feet)

ItemQuantitySpecificationFence panels21.5 m width, wrought ironPosts475 mm square, galvanised steelGate11.0 m(3–foot) width, using existing designBrick plinth2 * 1.5 m run Brick, 450 mm highCoping stones2*1.5 m runChamfered, 250 mm wideAnchors16M12 stainless bolts6.
Summary

This proposed specification provides the framework for constructing a 4_ft wrought iron fence on a brick plinth. It balances heritage aesthetics with modern durability and is suitable as a boundary wall.

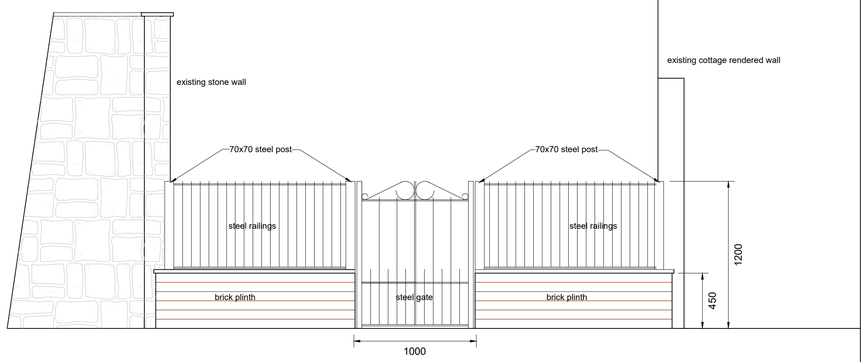




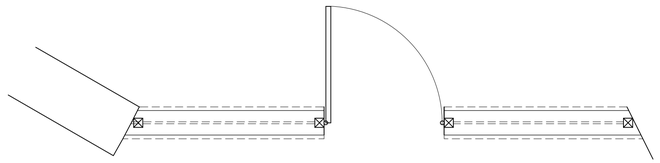
PROPOSED LOCATION OF COURTYARD FENCE 1:100@A1



IMAGE SHOWING THE TYPICAL APPEARANCE OF THE GATE DESIGN



ELEVATION 1:50@A1



PLAN 1:50@A1

DO NOT SCALE THIS DRAWING

IMPORTANT
DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEER'S DRAWINGS & INFORMATION

PLEASE NOTE

Due to the age, materials, construction & layout of existing buildings dimensions and levels may vary according to location.
Whilst best efforts are made, wall thicknesses sometimes differ according to height & walls which are not straight & may 'bend' mid-run. Also due to slightly sloping ceilings/floors, clear heights may differ dependant on where existing measurements are taken.

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All dimensions and levels depicted are subject to checking and verified on site prior to construction. Any discrepancies are to be immediately notified to gaparch. Figured dimensions to be used only.

The information contained in this drawing must only be used at the named location. The location of any services indicated on this drawing are approximate only and must be checked on site by the main contractor before commencing works.

Client/Contractor is to be responsible for locating any underground services.

CDM Regulations - Where applicable the designers hazard identification sheets to be read in conjunction with all consultants drawings, specifications and existing record drawings. It is considered that a competent contractor will be able to identify hazards associated with the project from the information above, and take the necessary precautions to deal with any risks to health and safety.
CDM - for the avoidance of doubt the Principal Contractor is reminded that he is fully and solely responsible for the day-to-day management of site safety.

Compliance with the construction design and management regulations(CDM) is the sole responsibility of the client unless we are otherwise instructed in writing.

CONSTRUCTION NOTES GENERALLY:
Notwithstanding anything contained in this document or any other document forming part of the basis of the works every aspect of the works/installation is to comply with all requirements and all recommendations of all relevant Associations, Manufacturers, BRE Digests, British Standards, Codes of Practice, Building Regulations, Bye-Laws, Acts, Regulations, Planning Authority, Environmental Health Department, Fire Authorities, Water Authorities, Gas Autghority, Electricity Authority, Institute of Heating and Ventilating Engineers and IEE Regulations.

PRE- CONSTRUCTION GOODWILL ADVICE NOTES GENERALLY:
Prior to commencement of **any** site works ensure the following(where applicable) have been fully addressed:

- Local Authority Pre-commencement Planning Conditions have been submitted and discharged.
- CIL (Community Infrastructure Levy) Pre-commencement CIL forms have been completed and submitted to the local authority CIL team and an acknowledgement from LA CIL team received.
- Ecology Licence is in place prior to any demolition works on site.
- Demolition Notice Section 80 has been completed and submitted to the necessary authority
- Building Regulations Conditional Approval has been received.
- All public services locations, depths and types - eg gas, water, electricity, drainage, telecoms - to be fully identified
- All Covenants, Rights of Way etc to be investigated

1:100 1m 2m 3m 4m 5m 6m
1:50 1m 2m 3m

Scale bars for information only and not for construction

NOT APPROVED FOR CONSTRUCTION

rev	description	date	author	checked

PLANNING

client
MR ANDREW BURGESS

project
PROPOSED CONVERSION OF PART WORKSHOPS INTO AN EXTENSION TO THE COACH HOUSE AT BRYN EGLWYS, CASTLE ROAD CHIRK, LL14 5BS

drawing
COURTYARD GATE/FENCING AS PROPOSED

project no.	date	scale
25025	09/25 drawn GP	1/50 1/100@A1 1/100 @A3

drawing no.
P-21

revision
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S=SURVEY
SK=SKETCH/FEASIBILITY
P=PLANNING
T=TENDER
BR=BUILDING REGULATION
AB=AS BUILT

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CIAT CHARTERED PRACTICE

Courtyard fencing details