500mm 0mm 500mm 1000mm

Scale 1:20





Precedent Images of Concrete Planter Walls

Typical Section Detail of In-Situ Concrete Retaining Wall With Integral Planter and Railings
Reinforced Concrete
Integral 0.67m nominal high railing
Scale: 1:20 at A1

Typical Elevation Detail of In-Situ Concrete Retaining Wall With Integral Planter and Railings
Reinforced Concrete
Integral 0.77m nominal high railing
Scale: 1:20 at A1

NOTES

1. All dimensions in millimetres unless otherwise shown.
2. All levels in metres above Ordinance Datum (mAOD) unless otherwise shown.
3. All dimensions to be checked on site and any discrepancies reported to Landscape Architect or Employer before pricing / work starts.
4. Any ambiguities or discrepancies within this drawing and any other information given elsewhere must be reported to the Landscape Architect or the Employer for clarification prior to pricing or construction works commencing.
5. All drawings to be read in conjunction with other drawings and specification information as appropriate.
6. Refer to relevant Engineer's and Architect's information as appropriate for confirmation of all engineering and architectural details (including base and sub-base formation layers).
7. All works to be carried out in accordance with the latest British Standards and appropriate codes of practice as a minimum.
8. Unless noted as Construction Status, all information shown is NOT for construction. Clarification to be sought from the Landscape Architector the Employer prior to construction works commencing

NOTES

Planting
Refer to drawing *-0071 General Arrangement - Planting Plan* for planting proposals and specification.

Growing Medium and Mulch
Refer to drawings
- *-0061 General Arrangement - Growing Medium*
- *-0062 General Arrangement - Mulch*
- *-0601 Typical Detail - Growing Medium Profiles (General Purpose)*

for Growing Medium and Composted Bark Mulch specification.
20mm drainage board with integral filter fleece/membrane to be installed continuously at the base of all planting troughs within the retaining structures.

Irrigation
Refer to drawing *-0063 General Arrangement - Irrigation* for areas to be irrigated and specification.

Vertical Bar Railings
Steel Railings formed from 80x8mm Top Rail, Bottom Rail & Vertical Posts with 50x8mm Vertical Railing Panels.
- Vertical posts to be formed to ensure railing is aligned with concrete upstand/stem below (as shown on the drawing) confirmed by structural engineer or specialist railing manufacturer to ensure correct structural analysis (e.g. horizontal loading).
- Vertical posts to be nominal 8mm thick.
- Railing panels to be fixed to posts. Vertical rails within railing panels to be at max 105mm centres to ensure 100mm sphere cannot pass through vertical voids.
- Railing specials required at corners and changes of direction. Exact details to be confirmed by specialist railing manufacturer following detailed on site survey.
- End specials required. Railing arrangement to cantilever at retaining wall corners.

Railings to be fixed down into concrete base by an appropriate bolt fixing ('Hilti' Bolt or Resin Anchor Bolt) to engineer or manufacturer details.
All steel components to be weld fixed together. Continuous fillet weld to be utilised, leg length 3mm. All joints to be fully welded and finished smooth.
All fixings to be stainless steel. Exact fixing details and steel specification to be confirmed with Structural Engineer and specialist
Steel Railings Manufacturer.
Galvanised and PPC to RAL 7012 (matt finish) Exact colour to be confirmed, to match building downpipes.

Samples and Employer Approval
Samples of railing materials and finish are to be provided prior to manufacture for the employer to approve.

In-Situ Reinforced Concrete Retaining Structure (Fair-faced concrete)
Special Finish Concrete to BS EN 13670, reinforced concrete retaining structure to Structural Engineer's details.
Concrete mix to contain fly-ash to achieve a smokey grey colour.
Steel shuttering/formwork to be utilised to all exposed faces of retaining structure to ensure a smooth and even finish. All joints in shuttering must be grout-tight with a clear, none staining, sealer with all joints in formwork to be vertical only.
Tie bolts to be minimum number required, equal numbers and aligned with one another in a vertical/horizontal grid.
Any release agent must be non-staining and not wash off during wet weather, nor break down over the concrete curing period. It should give a uniform finish to the surface with no dusting or discolouration. The release agents must be compatible with the admixtures in the concrete and the formwork used.

Movement joints to be aligned at regular centres and to be recessed by nominal 15-20mm to create shadow gap.

Waterproof membrane to line the planting trough to engineer's detail. Top of waterproofing membrane to be nominal 30mm below top of wall to ensure mulch layer conceals the membrane. Drainage outlets at nom. 2m centres to the base of the planting trough to ensure adequate free drainage for the growing medium.

The Concrete Sub-Contractor is to have a demonstrable track record / portfolio of delivering fair-faced concrete. Examples of work are to be submitted to the Landscape Architect and the Client Technical Advisor prior to appointment.
The viewing distance for inspecing the concrete finish it to be 0.75m, this is due to the proximity of the end user to the concrete face once complete.
Methods of making good any concrete faces to be agreed prior to the works being undertaken to ascertain the correct finish.

Early appointment of a specialist sub-contractor is required to receive sufficent detailed design input. this will ensure a satisfactory finish can be achieved.

Samples and Employer Approval
Samples of concrete finish are to be provided on site **prior to construction**, the exact method of proposed construction, giving the same finish is to be provided as a sample for the employer/Client Technical Advisor to approve.

Rev	Date	Description	Drn	Chk
P02	21/09/2023	Note to irrigation removed	SWR	SWR
P01	14/07/2023	Updated to client comments	SWR	SWR
P00	13/06/2023	First Issue	SWR	SWR

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Boundary Detail - Access Path Retaining Wall

Status:		Drawn by:	Checked by:
(S1) Issued for co-ordination		SWR	SWR
Drawing Number:	Revision:	Scale:	Date:
53CA07-SRLA-TH-GF-DT-L-0501	P02	1:20 @ A1	07/06/2023