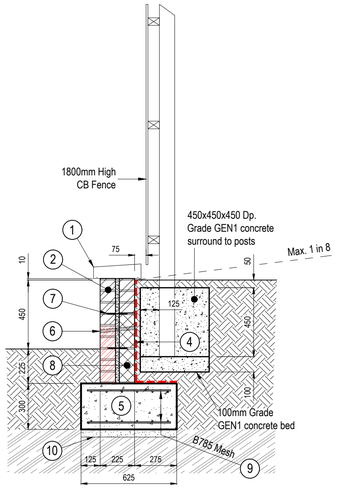
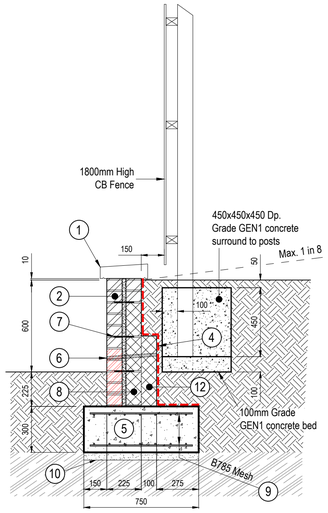
Retaining Walls (Fence Post Behind) - Max. 1 in 8 batter behind



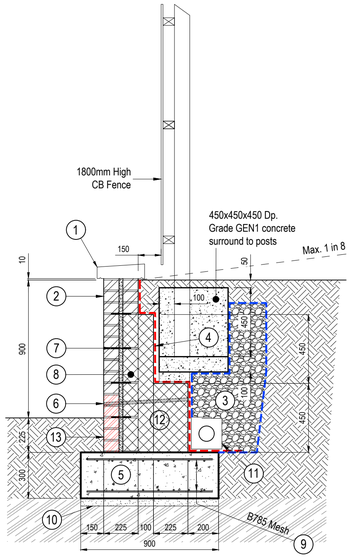
Type 'A' Retaining Wall
Max. Retained height 0.45m

Scale 1:20



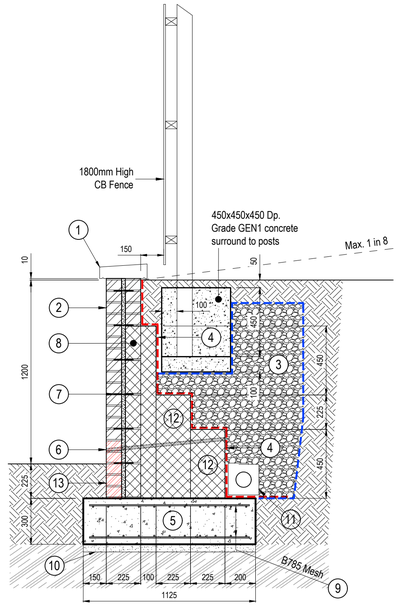
Type 'B' Retaining Wall
Max. Retained height 0.60m

Scale 1:20



Type 'C' Retaining Wall
Max. Retained height 0.90m

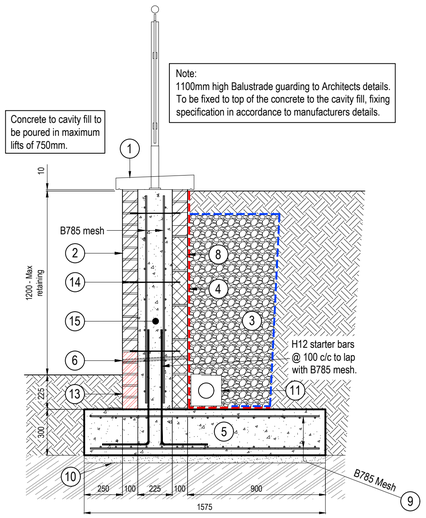
Scale 1:20



Type 'D' Retaining Wall
Max. Retained height 1.20m

Scale 1:20

Retaining Wall with Balustrade



Retaining Wall with Balustrade
Max. Retained height 1.20m

Scale 1:20

Retaining Walls Legend

1. Coping to Architect's details
2. Facing brickwork with solid collar joint: Min. brick strength 20N/mm².
3. Single sized clean stone (Nominal 40mm) Min 450mm width, wrapped in geotextile membrane 'Terram 1000' or alternative.
 Remaining backfill behind wall - to Highway for specification works Series 600, Clause 610 (fill to structures):
 Class 6N, 6P - Selected Granular fill
4. 1200 gauge visqueen with 300mm laps, cut visqueen around weep holes
5. Foundations on Engineered Fill: Grade C28/35 Reinforced concrete foundation. Concrete classification: DS-1 and ACEC Class AC-1.
6. 75mm UPVC weep holes at 1.5m centres.
7. Stainless steel wall ties at 450mm horizontal centres and 225mm vertical centres.
8. Dense concrete blockwork 10.4N/mm² strength, min. density 18kN/m³, bonded into brickwork.
9. Foundations on Engineered Fill: B785 mesh in top & bottom of foundation 40mm cover, 400mm laps to mesh sheets.
10. 50mm concrete blinding.
11. 100 Dia Land drain wrapped in geotextile mambrane
12. Each course of the retaining wall should be constructed with full-size concrete blocks, with an overlapping bond pattern between courses in both horizontal directions, including tying into back of wall skin (note 8).
 Min 10.4N/mm² strength, min. density 18kN/m³.
13. Engineering bricks to be used from foundation to 2 courses above finished ground level. Class F2 bricks to be used Above.
14. Stainless steel wall ties at 900mm horizontal centres and 450mm vertical centres.
15. 225mm cavity void to be filled with grade C28/35 concrete, 10mm Aggregate & consistency class S4. Vibrate in accordance with National Building Specification clause E10 690.

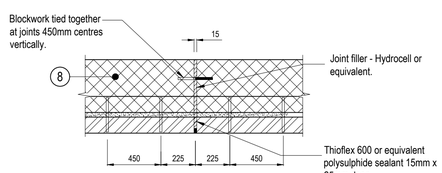
Movement joints to be provided at 6.0m max. centres in masonry retaining walls. mortar to be cement/sand mortar (1:3).

Retaining Wall Notes

1. Batter slopes to back of retaining walls to vary from horizontal to a Max. of 1 in 8 unless otherwise stated.
2. Materials to back of retaining walls to be carefully placed and lightly compacted. No site traffic to traverse behind completed retaining wall.
3. Top surface of foundation to be cleaned to remove all traces of cement laitence and extraneous material prior to constructing wall. Ensure clean surface and good bond between masonry and concrete foundation.
4. Backfill materials behind completed walls are to be placed not sooner than 3 days after building of the wall.
5. Retaining walls have not been designed for barrier/fence loading & any fence barrier should be founded independently away from the retaining wall. If this is required, engineer is to be informed & alternate design is to be provided.
6. Retaining walls have been designed for a maximum surcharge of 2.5kN/m² applied to the upper retained surface behind the wall.
7. The retaining wall foundations have been designed for a maximum allowable bearing pressure of:-
 Engineered Fill - 50kN/m²
 All soft spots to be removed & replaced with compacted sub-base or lean mix concrete.

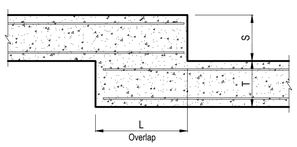
Note:
For Wall locations, refer to engineering layout drg No. 2336-100.

Retaining Walls - Max. 1 in 8 batter behind



Movement joint detail - Retaining wall on plan

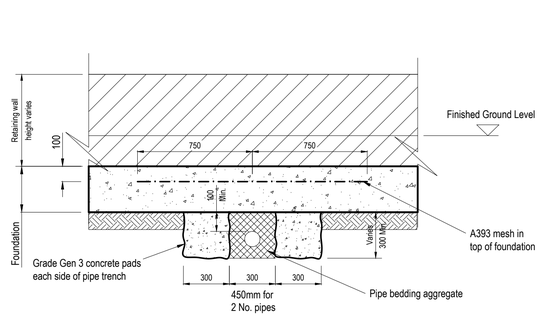
Maximum joint spacing 6.0m - Scale 1:20



Foundation Step Detail

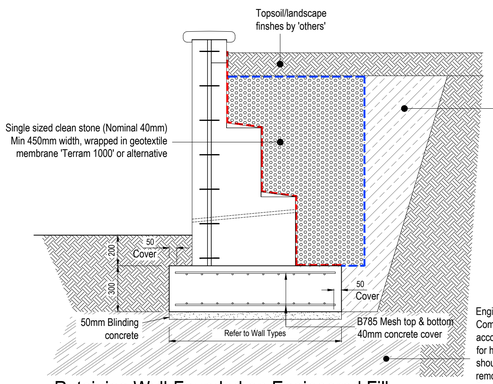
Strip Foundation (T Less than 500mm Dp.)
The overlap (L) should be not less than:-
- 2 x S, or
- T (Max. 500mm), or
- 300mm, Whichever is largest.

Trench Fill Foundation (T Over 500mm Dp.)
The overlap (L) should be not less than:-
- 2 x S, or
- 1000mm, Whichever is largest.



Detail for sewers passing under retaining wall:
Elevation on retaining wall.

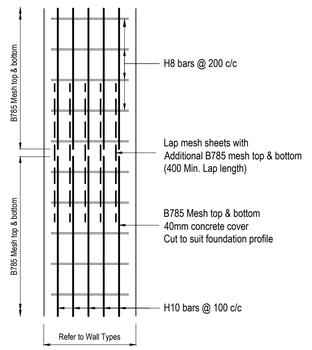
Scale 1:20



Retaining Wall-Founded on Engineered Fill
Typical Section

SCALE 1:20

Engineered Fill:
Compacted in Max. 150 layers in accordance with the DTp specification for highway works. All formations should be proof rolled, any soft spots removed & void backfilled with structural fill or Lean mix concrete (grade C8/10) This should be plate tested for a bearing pressure of 50 kN/m² .



Retaining Wall-Founded on Engineered Fill
Typical Plan on Reinf't

SCALE 1:20

Foundation Note:
Foundations on Engineered Fill: 300mm Grade C28/35 Reinforced concrete foundation (B785 Mesh). Engineered fill to be plate tested for a bearing pressure of 50kN/m².

Rev.	Date:	Details.	By.	Chk.

Amendments

Client:

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Project:

Coastal & CJ Construction
Harvey Crescent
Aberavon, Port Talbot

Drawing Title:

Masonry Retaining Walls
Max Retained Height 1.20m

Drawn:	Chk:	Status:	Scale at A1:
WW	PG	PRELIMINARY	1:20

Date:	Job No.	Drg. No.	Rev.
Mar '24	2336	015	

2336_015 Masonry Retaining Walls.dwg