GOVERNMENT OF BERMUDA

Ministry of Public Works

Department of Works and Engineering

PART 4

PARTICULAR SPECIFICATIONS

RETAINING WALL & SIDEWALK CONSTRUCTION AT #2 INDUSTRIAL PARK ROAD, SOUTHAMPTON PARISH

Retaining Wall & Sidewalk Construction at #2 Industrial Park Road, Southampton Parish

SPECIFICATIONS

DESCRIPTION OF WORK

1.1. The work included in this contract is for the construction of a retaining wall and sidewalk as indicated in drawing.89992/1/B and the Schedule to the Specification

TECHNICAL SPECIFICATIONS

Schedule to the Specification [details work not fully itemised on Drawing 89992/1/B

01010-Summary of Work
01026-Unit Prices
01027-Applications for Payment
01030-Alternates
01040-Project Co-ordination
01050-Field Engineering
01090-Definitions and Standards
01200-Project Meetings
01300-Submittals
01561-Environmental Protection
01631-Product Substitutions
01700-Contract Closeout

02070-Demolition
02100-Site preparation
02200-Earthworks

03000-Concrete General
03100-Concrete Formwork
03200-Concrete Reinforcement
03300-Cast-in-place Concrete
03370-Concrete Curing

04100-Mortar and Masonry Grout
04200-Unit Masonry
04230-Reinforced Unit Masonry

SCHEDULE TO THE SPECIFICATION

1. Concrete sidewalk shall be finished to Unformed Finish Type U4 [Division 3-03100] with tooled edges;
2. The concrete sidewalk shall be laid to a straight grade crossfall from wall to kerb at a gradient of 1 in 36 (40mm on a 1.4 metre wide sidewalk);
3. All in-situ cast concrete shall be Ready Mix Grade 20 concrete to Table C1 [Division 3-03300];

4. Kerbing shall be 250 mm x 125 mm nominal size half-battered kerbs laid to a smooth vertical profile at a nominal 150 mm kerb face;
5. Pedestrian dropped kerbs shall be provided at two locations as directed by the Engineer's Representative to comprise 2 nr. 150 mm x 125 mm bullnose kerbs with taper transition kerbs. The concrete sidewalk shall be shaped to falls at the transition/dropped kerbs as directed by the Engineer's Representative.
6. All kerbing shall be laid on an in-situ concrete foundation 300 mm wide and minimum 150 mm deep. Kerbs shall be backed with 150 mm wide in-situ concrete backing to the underside of the sidewalk concrete;
7. The material for the sidewalk base layer shall be crushed rock to section 2.2.A of Division 2 – 02200.
8. The wall shall be a plastered finish to all exposed faces front and back.
9. Whilst Drawing 89992/1/B shows a 400 mm x 400mm block of free draining filter media behind the weephole wrapped in permeable filter fabric, the contractor has a permissible construction option to backfill the full width of the excavation from the top surface of the wall foundation to 200 mm above the weephole. The faces of the drainage layer and the entry to the weephole shall be protected with permeable membrane to prevent contamination of the drainage layer and weephole with silt etc.
10. Filter media shall be pea gravel to section 2.3B of Division 2 – 02200. The Contractor has a permissible construction option, at the Contractor's discretion, to use crushed glass for the drainage media from the Ministry waste recycling plant at the Government Quarry, to be collected by the contractor by prior arrangement with the Quarry Manager.
11. The contractor shall reinstate to the front face of new kerbing by cutting the existing road surface to a straight vertical face and reinstating in wearing course asphalt to a depth not less than 100mm.