

Building works

The Model Preamble for Trades as published by the Association of South African Quantity Surveyors Model Preamble for Trades 2017 shall be applicable to all the building Works associated with this contract. The following interpretations and meanings shall apply:

In case of any conflict in interpretation, ambiguity or discrepancy between any Model Preamble for Trades 2017 (whether standard or written as a particular project specification) contained in the *Works Information* and the *conditions of contract*, the *conditions of contract* shall take precedence within the ECC3 Contract.

In case of any conflict in interpretation, ambiguity or discrepancy between any Model Preamble for Trades 2017 (whether standard or written as a particular project specification) contained in this paragraph of *Employer's Works Information* and specific statements contained elsewhere in C3.1 *Employer's Works Information*, the specific statements contained elsewhere shall prevail, without prejudice to the *Project Manager's* express duty to resolve any ambiguity or inconsistency in the *Works Information* under ECC3 Clause 17.1.

Within the Model Preambles for Trades 2017, the following amendments and interpretations shall apply:

Where the word or expression "Principal Agent" is used, read "*Project Manager*" or "*Supervisor*" as the context requires.

Where the word or expression "Contractor" is used, read "*Contractor*".

Where the word or expression "Engineer" is used, read "*Project Manager*" or "*Supervisor*" as the context requires.

Where the Model Preambles for Trades 2017 mention "rates" for measured work and any contractual statements relating to payment, all such statements shall be discounted, with the ECC3 *conditions of contract* taking precedence.

Within the Model Preambles for Trades 2017, A. GENERAL, the following amendments and interpretations shall apply:

Where the word or expression "bills of quantities" is used, this shall be discounted for the purposes of the *Works Information*. The ECC3 Contract Data Part One states the main option to apply within the ECC3 Contract between the Parties.

Within the Model Preambles for Trades 2017, B. ALTERATIONS, B.2 MATERIALS FROM THE ALTERATIONS, CREDIT, ETC and C. EARTHWORKS, C1.4 Materials from demolitions shall not apply. C3.1 *Employer's Works Information* paragraph 3.1.6 states details of the *Contractor's* title (if any) to Materials arising from excavations and/or demolitions and how such Materials are either to be disposed of or re-used in the *works*.

The principles, meanings and interpretation stated and established within paragraphs with respect to the Model Preambles for Trades 2017 equally apply to the other Model Preambles for Trades references used within this paragraph of C3.1 *Employer's Works Information*.

- 1.1.1 Particular specifications provided by the Employer:
 - a) Manufacturers Instruction and Specifications

All materials and products shall be used and installed in strict accordance with the manufacturer's instructions and specifications

b) Use of Locally manufactured materials and products

Materials and products manufactured in South Africa shall be used in carrying out the work to which this specification refers, unless an imported product is prescribed specifically, or when no suitable locally manufactured product for the specific use is available.

c) Samples

Prior to installation, the *Contractor* shall furnish without delay, such samples and/ or certificates as called for by the *Supervisor / Project Manager*.

Samples shall be provided by the *Contractor* for approval to confirm the size, type, finish and the colour of paving blocks, concrete finishes, handrails and balustrade panels. These approved sample range shall remain on site or in the site offices for the duration of the Works.

Samples of the four colours of paving blocks (red, grey, apricot and charcoal), handrails and balustrade shall be provided. Materials and/or workmanship not corresponding with approved samples may be rejected.

A sample panel of the concrete block paving pattern (Approximately 17,8m x 8,5m) shall be laid for approval of the *Supervisor/ Project Manager*.

d) Demolition

The existing balustrades along cope wall is to be removed and returned to client (TNPA). The base plate to be removed and bolts angle grinded down in line with the surface.

The existing concrete surface along the concrete cope shall be repaired and filled with "Sika Monotop" system or similar/ equivalent, where required. All repairs to be done in strict accordance with the manufacturer's specification and recommendations.

The concrete cope surface shall be made good to receive new 1,080mm Cochrane ClearVu balustrade or similar/equivalent.

The Structural Engineer shall inspect the concrete cope prior to installation and validate whether the concrete cope is in good condition to receive the new balustrade. Any repair work required shall be reviewed and accepted by the Structural Engineer.

e) New Balustrade along concrete cope

New 1080mm Cochrane "ClearVu" invisible wall panel balustrade or similar/ equivalent shall be installed according to the manufacturer's specifications. The panel lengths and the position of the base plates to concrete cope shall be marked out and shall be confirmed with the Project Manager prior to installation. The colour of the fence and posts to be standard "green" to match the existing fencing on the site.

f) New Handrail along ramp

New 1000mm Cochrane "ClearVu" balustrade with infill mesh and polished stainless steel handrail shall be installed along the ramp in strict accordance with manufacturers specification. Stainless steel to be Grade 316. The colour of posts and mesh to be standard green. The ramp dimensions, ramp gradient, baseplate positions shall be checked and verified prior to manufacture and installation of the balustrade. Shop drawings shall be issued to Engineer for approval prior to manufacture and installation.

g) Concrete Pavers

Block S-A concrete paving blocks 200mm x 100mm x 80mm (40Mpa) for heavy duty areas shall be laid in strict accordance with the manufacturers specification and SANS 1058. Concrete Blocks shall be laid in herringbone pattern in accordance with colours specified, and as per detail layout pattern provided.

Refer to "Concrete Block Paving" Book 3 - Specification and Installation", as documented by the Concrete Manufacturers Association.

The units as supplied shall be free from defects and cracks that detract from their general appearance. No unit with 5mm exceeding dimension shall be used or with covering more than 3% of the periphery of the surface that intend to be exposed. No unit shall have any protuberance of height exceeding 3mm.

Any deviation from flatness of a plan surface will be measured as the maximum deviation of the surface from any straight line of length 3 m joining two points on the surface, determined by means of a straight-edge the ends of which are supported on identical blocks of suitable thickness placed over each of the points.

The surface texture and colours of the units shall fall within the approved sample range of texture and colours represented by the manufacturers approved samples, that shall be inspected and approved prior to installation.

h) Paving as laid

The finished paved surface and pattern shall present the smooth surface or meet Supervisor's requirements.

i) Concrete Paving - PERMISSIBLE DEVIATION, (mm)

ITEM DEGREE OF ACCURACY

II a) Units as Manufactured

1) Deviation of length from nominal length * * ± 2

2) Deviation of width from nominal width * * ± 2

3) Deviation of depth (or thickness) from nominal depth (or thickness) * * ± 3

4) Deviation of squareness (measured as specified in SANS 1058) * * ± 2

b) Foundation layers

1) Deviation of top subbase layer from designated level * * ± 10

2) Smoothness of top subbase layer measured on a 3m straight line in any direction * * ± 10

3) Thickness of 25 mm compacted sand bedding layer * * ± 10

c) Finished paving. The finished surface of the paving shall, 3 months after opening to traffic, be accurate to within the following limits:

1) Line of pattern

i) Deviation from any 3 m straight line maximum * * 10

ii) Deviation from any 20 m straight line maximum * * 20

2) Vertical deviation from 3 m straight line

i) at kerbs, channels, gullies, manholes and other edge restraints * * + 3, – 0

ii) elsewhere (subject to adjustment as necessary for vertical curve) * * +10, –15

3) Surface levels of adjacent units, difference not to exceed * * 3

4) Deviation of finished surface level from designated level, subject to compliance with 6.1.1 and 7.6 * * +10, –15

* As stated in the project specification, if required.

j) Concrete Paving – Frequency of Checks on smoothness

The frequency of checks on smoothness carried out by the Contractor shall, in the case of roads, conform to the relevant requirements of Subclause 6.3 of SANS 1200 M and, where an area other than a road is being paved, a check shall be carried out on every 300m² (max.) of area paved.

The bedding sand layer should not be used to make up for inaccuracies of level of the top of the subbase layer or top of the compacted subgrade if a subbase is not constructed.

k) Checking

The Contractor shall carry out sufficient checks to satisfy himself that the materials used, and the workmanship (construction, tolerance and strength) attained comply consistently with the specified requirements. Checks will be carried out by the Engineer and the results made available to the Contractor.

l) Protection of works

Description of the Works: Durban Harbour Entrance North Groyne Promenade Terracing and Car Park Upgrade

The Contractor shall provide all necessary dust sheets, hoarding, etc. and shall exercise all necessary care to prevent marking surfaces, floors, electrical fittings, etc. and shall keep all parts of the works perfectly clean and free at all times from spotting, accumulation of rubbish, debris of dirt arising from the operations. Any surface disfigured or otherwise damaged shall be completely renovated or replaced as necessary by the Contractor at his own expense to the Supervisor's approval. The premises shall be left clean and fit for occupation at completion of the work.

List of Architecture drawings

1.2.1 Drawings issued by the *Employer*

This is the list of drawings issued by the *Employer* at or before the Contract Date and which apply to this contract.

Note: Some drawings may contain both Works Information and Site Information.

Drawing Number	Detail
XDNE048-1-000-A-DE-0001-01	PROMENADE TERRACING AND CARPARK UPGRADE RAMP DETAIL & BALUSTRADE DETAIL
XDNE048-1-000-A-LA-0001-01	PROMENADE TERRACING AND CARPARK UPGRADE GENERAL LAYOUT, FLOOR LAYOUT AND SECTIONS
XDNE048-1-000-A-DE-0002-01	PAVING PATTERN DETAIL