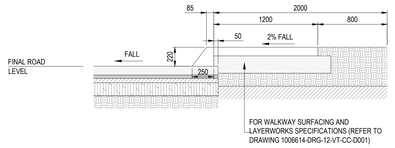
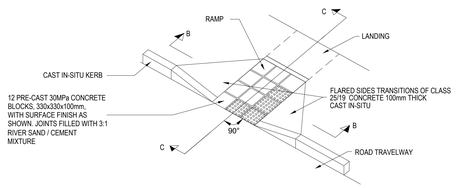


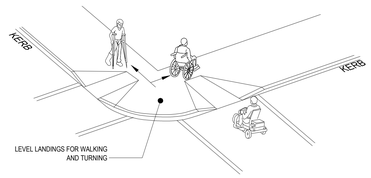

TYPICAL SIDEWALK LAYOUT

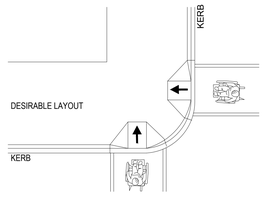



SECTION THROUGH SIDEWALK
SECTION A-A

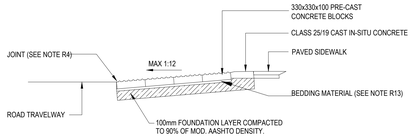



KERB RAMP - ISOMETRIC VIEW

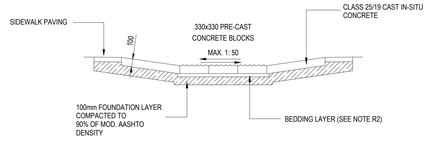



DOUBLE PEDESTRIAN KERB RAMP AT JUNCTION CORNER




RAMP - SECTION C-C




RAMP - SECTION B-B

## GENERAL

G1. THE WIDTH OF ALL WALKWAYS AND CYCLE TRACKS SHALL BE AS INDICATED ON THIS DRAWING UNLESS OTHERWISE INDICATED ON THE DETAIL DRAWINGS OR SPECIFIED BY AN ARCHITECT.

G2. SIDEWALKS AND WALKWAYS SHALL BE DESIGNED FOR A MAXIMUM CROSS FALL OF 2% (1:50).

## CONCRETE PANELS

C.1 SEE PAVEMENT LAYERWORKS DRAWINGS FOR DETAILS ON CONCRETE WORKS, REINFORCEMENT, PAVEMENT LAYERS, STRENGTH AND WORKMANSHIP REQUIREMENTS.

C.2 CONCRETE TO BE CURED FOR A MINIMUM OF SEVEN DAYS.

C.3 SHOULD THE CONCRETE PANEL LENGTH TO WIDTH RATIO BE GREATER THAN 1.25, THE PANEL MUST BE REINFORCED WITH REF. 193 MESH.

C.4 ALL NON-UNIFORM PANELS TO BE REINFORCED WITH REF. 193 MESH.

## RAMPS AT STREET CROSSINGS

R1. PEDESTRIAN RAMPS SHALL BE 30 MPa PRECAST CONCRETE BLOCKS, 330mm x 330mm x 100mm WITH SURFACE FINISH AS SPECIFIED, CONSTRUCTED AND THE TRANSITION SECTIONS SHALL BE CAST IN-SITU CLASS 25/19 CONCRETE, 100mm THICK.

R2. THE PRECAST CONCRETE BLOCKS SHALL BE PLACED WITH JOINTS NOT SMALLER THAN 5mm OR EXCEEDING 10mm.

R3. THE JOINTS SHALL BE FILLED WITH A MORTAR CONSISTING OF ONE PART CEMENT AND THREE PARTS APPROVED SAND, MEASURED PER VOLUME.

R4. THE JOINT BETWEEN THE KERB'S CAST IN-SITU CHANNEL (EXISTING OR NEW) AND THE CONCRETE BLOCKS SHALL BE FILLED WITH A 3:1 RIVER SAND/CEMENT MORTAR. WHERE THIS JOINT EXCEEDS 25mm, IN WIDTH CLASS 25/19 IN-SITU CONCRETE MUST BE USED FOR FILLING.

R5. RAMPS SHALL NOT BE REQUIRED AT SLOPING KERBS.

R6. THE SLOPE OF THE RAMP SHALL NOT EXCEED 1:12. OTHERWISE, THE RAMP MUST BE EXTENDED.

R7. THE CROSS FALL OF THE KERB'S CAST IN-SITU CHANNEL AT THE RAMP SHALL NOT EXCEED 1 IN 10 OTHERWISE THE CHANNEL AND THE KERB SHALL BE RECONSTRUCTED OVER A MINIMUM LENGTH OF 3 METERS. CARE MUST BE TAKEN TO PREVENT POSSIBLE DRAINAGE PROBLEMS.

R8. THE CROSS FALL OF THE RAMP SHALL NOT EXCEED 1:50.

R9. IF NECESSARY, THE PAVING ADJACENT TO THE RAMP AND TRANSITION SECTIONS SHALL BE ADJUSTED TO AVOID SEVERE CHANGES IN GRADE BETWEEN THE PAVING AND THE TRANSITION SECTIONS.

R10. ALL IN-SITU CONCRETE SHALL BE CURED FOR AT LEAST 12 HOURS.

R11. THE FOUNDATION LAYER SHALL CONSIST OF A 100mm LAYER OF IN-SITU MATERIAL FINISHED TO THE REQUIRED GRADE AND LEVEL. THE FOUNDATION LAYER SHALL BE COMPACTED TO AT LEAST 90% OF THE MODIFIED AASHTO DENSITY.

R12. THE BEDDING MATERIAL UNDER THE CONCRETE BLOCKS , SHALL CONSIST OF A 6:1 RIVER SAND/CEMENT MIXTURE.

R13. EXISTING PAVING MUST BE CUT IN STRAIGHT LINES, FOLLOWING AN APPROVED METHOD.

**NOTES**

1. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ON THE SITE AND NOTIFY THE NEC SUPERVISOR OF ANY VARIATIONS BEFORE CONSTRUCTION.
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL.
4. DRAWINGS MUST BE READ IN CONJUNCTION WITH PROJECT SPECIFICATIONS AND GENERAL NOTES DRAWINGS.
5. IF APPLICABLE, DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.

LOCALITY



LEGEND

| SYMBOL | DESCRIPTION |
|---|---|

| NO. | DESCRIPTION | BY | CHKD | APPD | DATE |
|---|---|---|---|---|---|
| E1 | FOR TENDER | RR | HVDM | HVDM | 18 07 25 |

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

**CONTRACTOR / CONSULTANT**

| TITLE | NAME | SIGN | DATE |
|---|---|---|---|
| DRAWN | W. BOTES | | 18 07 25 |
| CHECKED | H. VANDER MERWE | | 18 07 25 |
| DESIGNED | R. RANGE | | 18 07 25 |
| CHECKED | H. VANDER MERWE | | 18 07 25 |

PR.ENG. / PR.TECH./PR. ARCH

| NAME | H. VAN DER MERWE | DATE |
|---|---|---|
| SIGNATURE | | 18 07 25 |
| REG. NUMBER | 201270225 | |
| TITLE | Pr. TechENG | |

**TRANSNET NATIONAL PORTS AUTHORITY**

| TITLE | NAME | SIGN | DATE |
|---|---|---|---|
| DRAWN | | | |
| CHECKED | | | |
| DESIGNED | | | |
| CHECKED | | | |

PR.ENG. / PR.TECH./PR. ARCH

| NAME | DATE |
|---|---|
| SIGNATURE | |
| REG. NUMBER | |
| SCALE | AS SHOWN |

TRANSNET

Transnet National Ports Authority

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PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

# PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE (REPAIRS TO PORT ROADS)
SIDEWALK DETAILS

| PAPER SIZE | TRANSNET DRW. NO. | REV. |
|---|---|---|
| A0 | TBC | E1 |
| | PROJECT DRG. NO. | REV. |
| | 1006614-DRG-08-VT-CC-D005 | T1 |