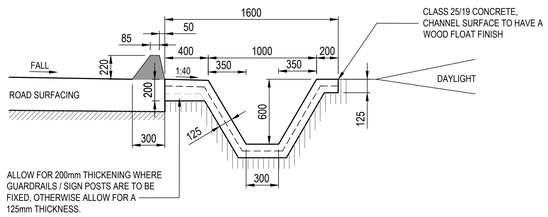


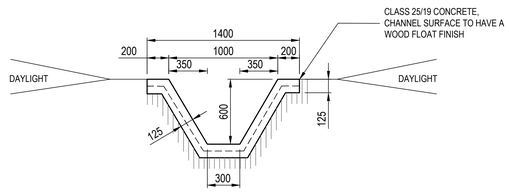

## TYPE 1 CHANNEL FLUSH WITH ROAD EDGE)

PARALLEL DRAINAGE BEHIND KERB
(WITH 500mm KERB OPENINGS AS PER KERB DETAIL DRAWING)



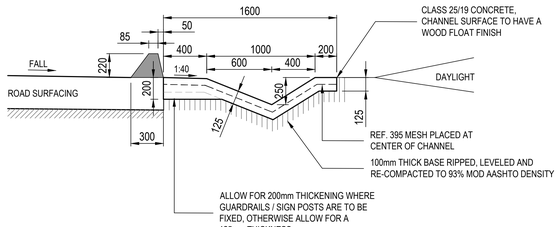

## TYPE 3 CHANNEL (FLUSH WITH ROAD EDGE)

PARALLEL DRAINAGE BEHIND KERB
(WITH 500mm KERB OPENINGS AS PER KERB DETAIL DRAWING)



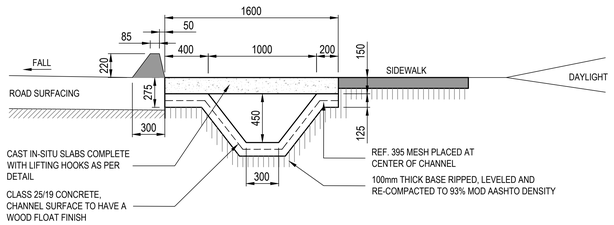

## TYPE 5 CHANNEL

PARALLEL DRAINAGE
(LINED CHANNEL IN VELD)



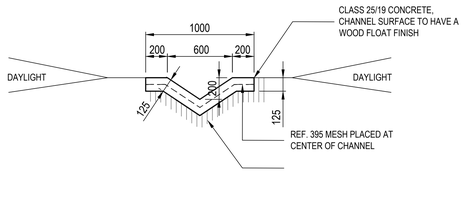

## TYPE 2 CHANNEL (FLUSH WITH ROAD EDGE)

PARALLEL DRAINAGE BEHIND KERB
(WITH 500mm KERB OPENINGS AS PER KERB DETAIL DRAWING)



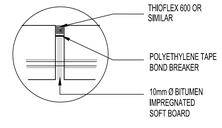

## TYPE 4 CHANNEL (AT PEDESTRIAN CROSSING)

PARALLEL DRAINAGE BEHIND KERB
(WITH VARYING KERB OPENINGS AS PER BUS BAY / PEDESTRIAN CROSSING DETAIL DRAWING)



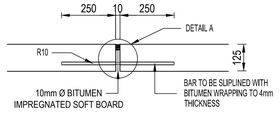

## TYPE 6 CHANNEL

PARALLEL DRAINAGE
(LINED CHANNEL IN VELD)



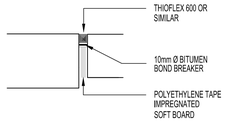

## DETAIL A

SCALE 1:5



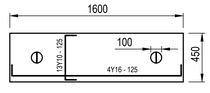

## EXPANSION JOINT IN CHANNEL SLAB (max spacing 3m)

SCALE 1:10

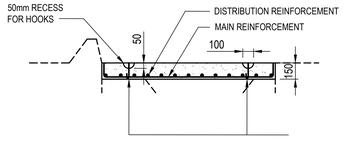



## EXPANSION JOINT AGAINST SIDEWALK

SCALE 1:5




PLAN VIEW




SECTION THROUGH SLAB

## PEDESTRIAN BRIDGE DETAIL PRE-CAST SLABS

NOTES FOR PRE-CAST COVER SLABS

1. CONCRETE TO BE CLASS 25/19 (25MPa)
2. CONCRETE TO BE CURED FOR A MINIMUM PERIOD OF 7 DAYS.
3. MINIMUM COVER TO REINFORCEMENT = 20MM
4. LIFTING HANDLES AS SPECIFIED OR OTHERWISE APPROVED BY THE ENGINEER.

5. REINFORCEMENT

   I) TYPE, BAR AND SPACING AS SPECIFIED. MILD STEEL LIFTING HOOKS FIXED TO MAIN REINFORCEMENT (10mm DIAMETER)

   II) MAIN REINFORCEMENT TO BE SHAPE CODE 38, WITH HOOK LENGTH (A DIMENSION) NOT LESS THAN T - 60, EXCEPT FOR SLABS WITH A SPAN NOT EXCEEDING 1000mm, WHERE NO HOOKS ARE REQUIRED AND SHAPE CODE 20 IS USED.

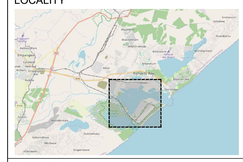
CHANNEL NOTES

1. MAXIMUM LONGITUDINAL SLOPE SHOULD BE SUCH THAT THE FLOW VELOCITIES DO NOT EXCEED 3.5m/s.
2. UNLINED SIDE DRAINS ARE ONLY PERMITTED WHERE THE FLOW VELOCITY IS LESS THAN 1.5m/s FOR A 2yr STORM AND NO POLLUTION IS EXPECTED.
3. SOFTBOARD FILLED JOINTS (10mm) TO BE PROVIDED AT MAX. 3m CENTERS.

**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 |
|---|---|---|---|---|---|
| E2 | FOR TENDER | RR | HVDM | HVDM | 18 07 25 |
| E1 | FOR TENDER | RR | HVDM | HVDM | 26 06 25 |

REVISIONS

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ZUTARI
IMPACT. ENGINEERED.

**CONTRACTOR / CONSULTANT**

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

TRANSNET SOC Ltd : REG.No. 1990/000900/30
NEWARK ROAD
RICHARDS BAY TEL: 035 788 0067
PO BOX 181, RICHARDS BAY 3900, SOUTH AFIRCA

PROJECT / AREA / ASSET / SUBJECT/DRAWING TITLE

PORT OF RICHARDS BAY

PORT ROADS REHABILITATION & UPGRADE (REPAIRS TO PORT ROADS)
ROAD DRAINAGE
CHANNEL DETAILS

| PAPER SIZE | TRANSNET DRW. NO. | REV. |
|---|---|---|
| A0 | TBC | E2 |
| PROJECT DRG. NO. | | REV. |
| 1006614-DRG-14-VT-CC-D005 | | T2 |