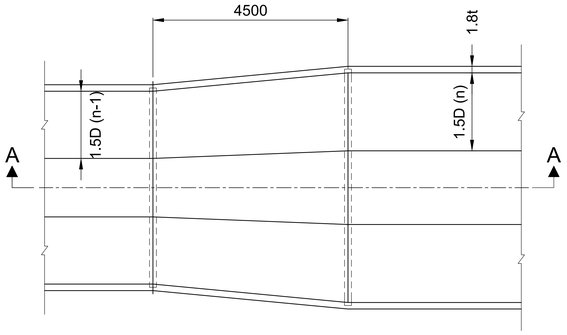
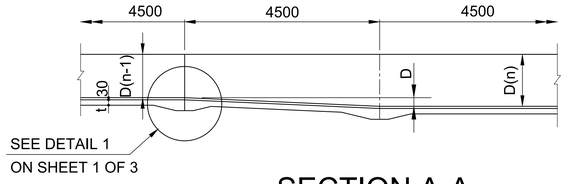
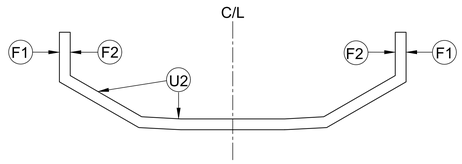


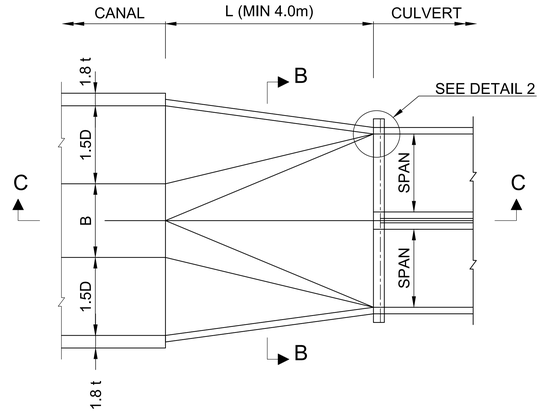

## PLAN FOR WIDENING OF CANAL
SCALE 1:50



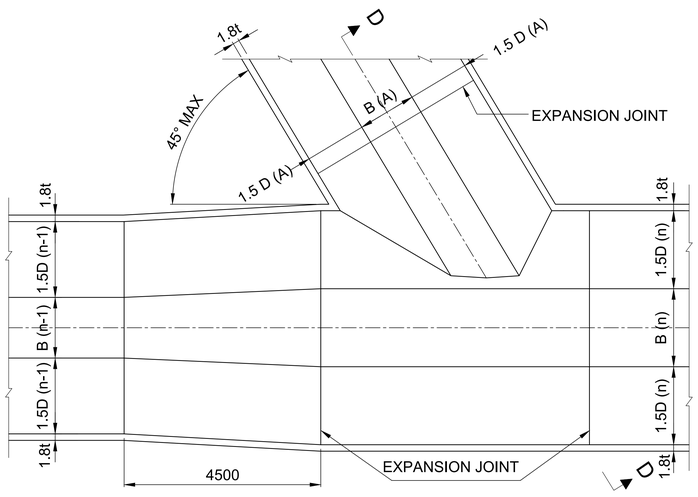

## SECTION A-A
SCALE 1:50



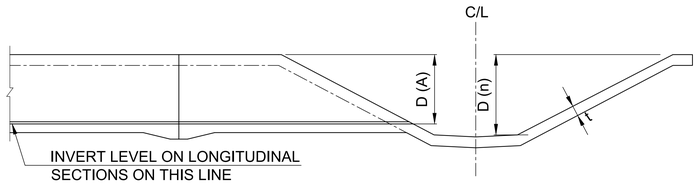

## SECTION B-B
SCALE 1:50



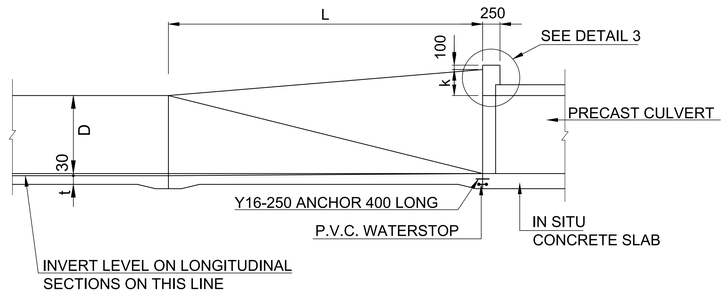

## PLAN OF IN- & OUTLETS
SCALE 1:50



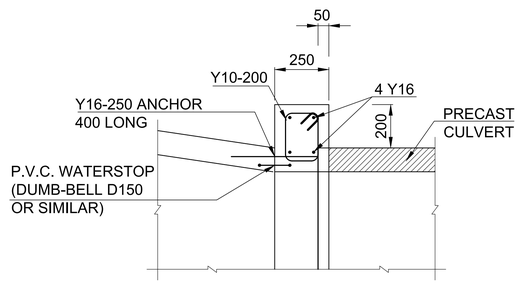

## PLAN OF CANAL JUNCTION
SCALE 1:50



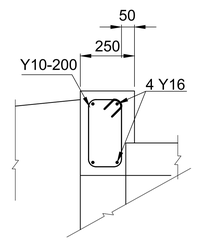

## SECTION D-D
SCALE 1:50




## SECTION C-C
SCALE 1:50




## DETAIL 2
SCALE 1:10




## DETAIL 3
SCALE 1:10

## TABLE 1
TABLE OF CANAL / CULVERT COMBINATION FOR 1:1,5 SIDE SLOPES ( SEE NOTE ON TD-D-TC-1001 )

| CULVERT |
|---|
| N/SPAN x HEIGHT |
| 2/900 x 600 |
| 2/1200 x 900 |
| 2/1500 x 1200 |
| 2/1800 x 1200 |
| 3/1500 x 1500 |
| 3/1800 x 1800 |

| ADJOINING CANAL | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BASE(B) | DEPTH(D) | L | t | B+3D | 1,5D | 1,5t | 1,8t | k |
| 900 | 600 | 3000 | 100 | 2700 | 900 | 150 | 180 | 200 |
| 1100 | 800 | 3600 | 100 | 3500 | 1200 | 150 | 180 | 200 |
| 1350 | 1000 | 4200 | 125 | 4350 | 1500 | 190 | 225 | 250 |
| 1700 | 1200 | 4800 | 150 | 5300 | 1800 | 225 | 270 | 300 |
| 2000 | 1400 | 5400 | 150 | 6200 | 2100 | 225 | 270 | 350 |
| 2300 | 1600 | 6000 | 150 | 7100 | 2400 | 225 | 270 | 400 |

| CANAL AND IN- AND OUTLETS |
|---|
| HIGH TENSILE STEEL MESH |
| SMF \ 193 5,6 mm 200 x 200 mm |
| SMF \ 193 5,6 mm 200 x 200 mm |
| SMF \ 245 6,3 mm 200 x 200 mm |
| SMF \ 311 7,1 mm 200 x 200 mm |
| SMF \ 311 7,1 mm 200 x 200 mm |
| SMF \ 311 7,1 mm 200 x 200 mm |

***SEE NOTES ON 312-00422/01-TD71 SHEET 1 OF 3**

| No. | DATE | REVISION |
|---|---|---|
| V1 | 08/03/2024 | ORIGINAL VERSION |

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SANRAL
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BUILDING SOUTH AFRICA THROUGH BETTER ROADS

**WESTERN REGION**
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Bellville
7530

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ACCEPTANCE
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

**PROJECT DESCRIPTION**
**THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)**

**TRAPEZOIDAL CONCRETE CANALS**
**DETAILS 1**
**SHEET 2 OF 3**

SCALE @ A0: AS SHOWN | SHEET 2 OF 3

| | | |
|---|---|---|
| PROJECT NUMBER | N001-010-2021/1 | |
| DRAWING LOCATION DATA | START | END |
| ROUTE | N01 | N01 |
| SECTION | 01 | 01 |
| DRAWING km DISTANCE | 18.900 | 33.000 |
| DRAWING TYPE | DRAINAGE - TRAPEZOIDAL CANALS | |
| BRIDGE/STRUCTURE No. | N/A | |
| CONSULTANT DRAWING No. | 312-00827-01-TD72 | VER |
| SANRAL DOCUMENT # | XXXXXX | V1 |

312-00827-01-TD72