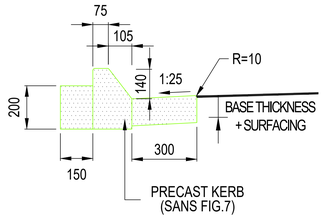


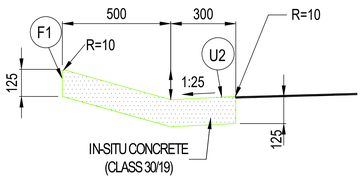
CROSS SECTION OF TYPE 'A' CONCRETE SIDE DRAIN

SCALE 1:10



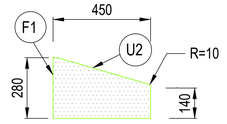
CROSS SECTION OF TYPE 'B' SEMI MOUNTABLE KERB (FIG. 7)

SCALE 1:10



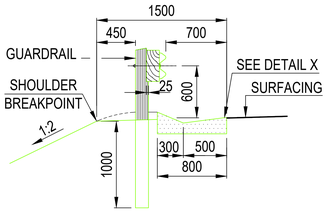
CROSS SECTION OF TYPE 'C' MOUNTABLE KERB (RURAL INTERSECTIONS)

SCALE 1:10



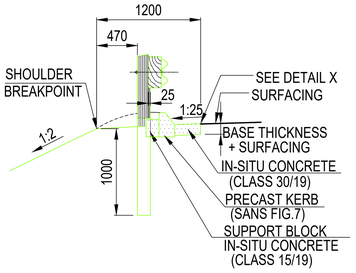
CROSS SECTION OF TYPE 'D' MOUNTABLE KERB

SCALE 1:10



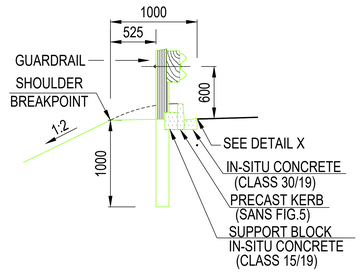
POSITION OF TYPE 'A' CONCRETE SIDE DRAIN

SCALE 1:25



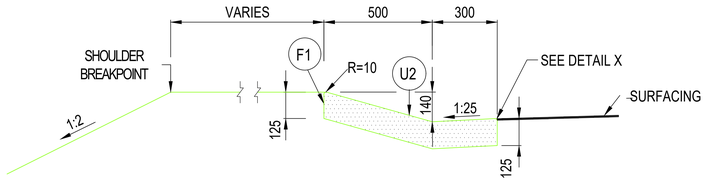
POSITION OF TYPE 'B' SEMI MOUNTABLE KERB(FIG. 7)

SCALE 1:25



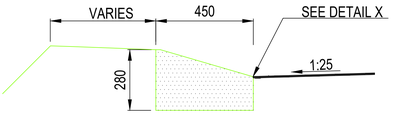
POSITION OF ALTERNATIVE TYPE 'B' NON MOUNTABLE KERB (FIG. 5)

SCALE 1:25



POSITION OF TYPE 'C' MOUNTABLE KERB

SCALE 1:10

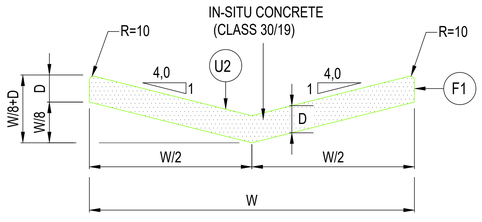


POSITION OF TYPE 'D' MOUNTABLE KERB (STREET SECTIONS)

SCALE 1:10

W	W/2	W/8	W/8+D	D UNREINFORCED	D REINFORCED
1000	500	125	250	125	100
1500	750	188	313	125	100
2000	1000	250	400	150	100
2500	1250	313	463	150	100

DIMENSIONS OF TYPE 'E' CONCRETE CHANNELS

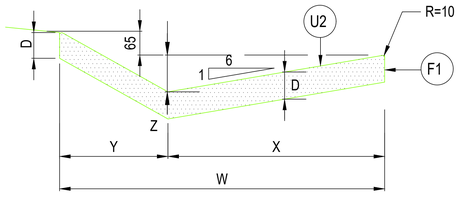


CROSS SECTION OF TYPE 'E' CONCRETE CHANNEL

N.T.S.

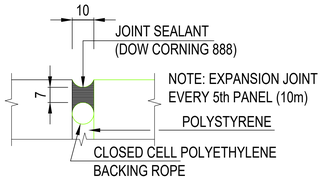
W	X	Y	Z	D UNREINFORCED	D REINFORCED
1000	670	330	110	125	100
1500	1000	500	170	125	100
2000	1330	670	220	150	100
2500	1670	830	280	150	100

DIMENSIONS OF TYPE 'F' CONCRETE CHANNELS



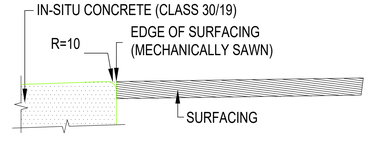
CROSS SECTION OF TYPE 'F' CONCRETE SIDE CHANNEL

N.T.S.



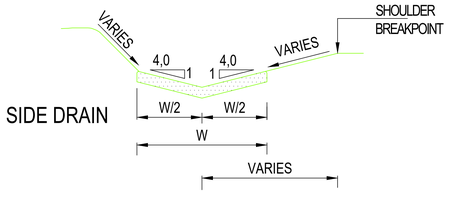
EXPANSION JOINT

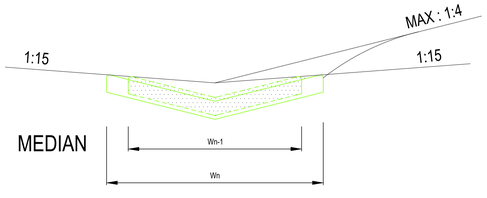
N.T.S.



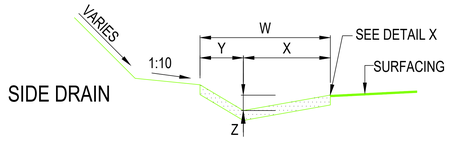
DETAIL X

SCALE 1:2,5





POSITION OF TYPE 'E' CONCRETE CHANNEL



POSITION OF TYPE 'F' CONCRETE CHANNEL

NOTES :

1. ALL CONCRETE CHANNELS AND OTHER DRAINAGE STRUCTURES ON THIS PLAN TO BE CAST USING CLASS 30/19 CONCRETE.
2. TYPES 'E' AND 'F' CONCRETE MUST BE CAST IN ALTERNATIVE LENGTHS OF 2.0m MAXIMUM WITH EXPANSION JOINTS EVERY 5th PANEL (10 m)
3. ALL EXPOSED CORNERS MUST BE ROUNDED OF TO A MINIMUM RADIUS OF 10mm.
4. THE TYPE OF SURFACE FINISH IS INDICATED AS F1 & U2.
   F - FORMED SURFACES
   U - UNFORMED SURFACES
5. PRECAST KERBING FIG. 5 & FIG. 7 REFER SANS. 927

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

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BUILDING SOUTH AFRICA THROUGH BETTER ROADS

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Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600

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)

ROAD SURFACE DRAINAGE
TYPICAL DRAIN TYPES
SHEET 1 OF 7

SCALE @ A0: AS SHOWN | SHEET 1 OF 7

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 - SURFACE DRAINAGE	
BRIDGE/STRUCTURE No.	N/A	
CONSULTANT DRAWING No.	312-00827-01-TD49	VER
SANRAL DOCUMENT #	XXXXXX	V1

312-00827-01-TD49