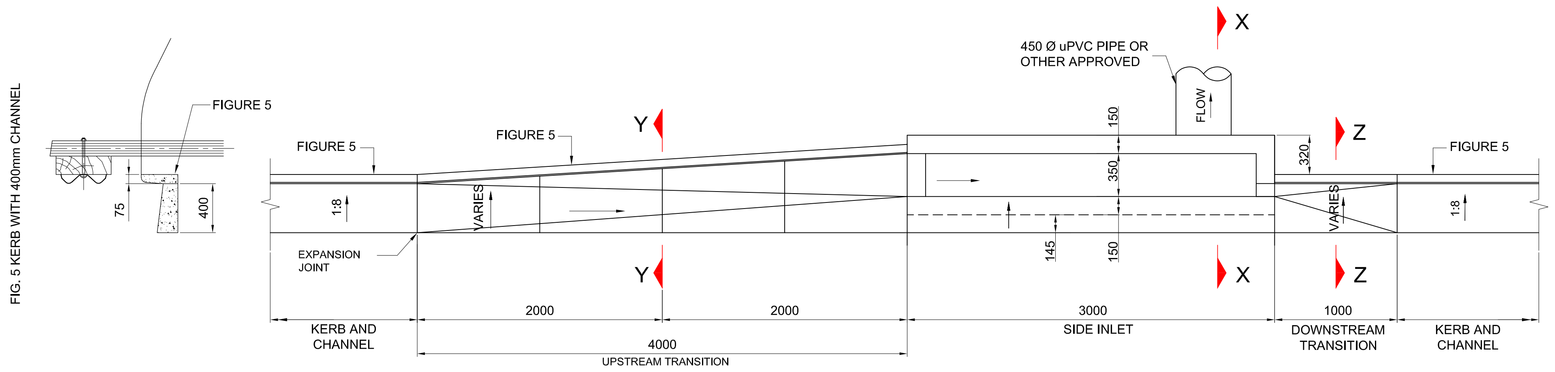
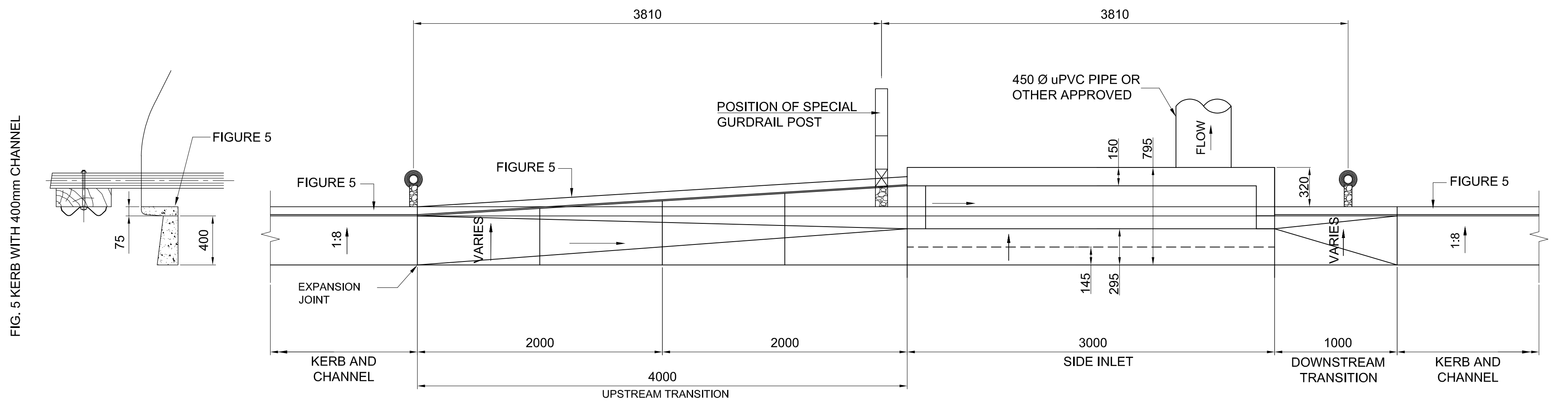
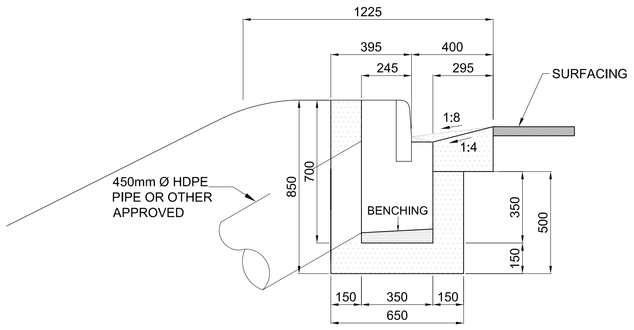


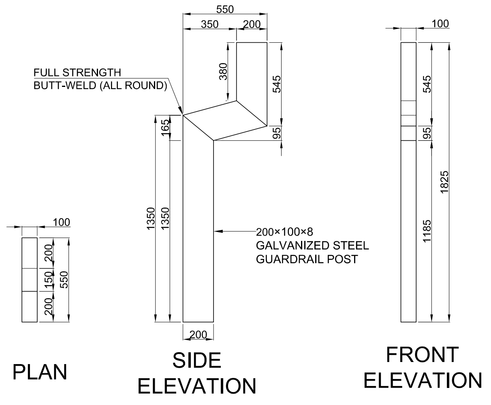
PLAN OF TRANSITIONS AT OPEN SIDE INLET FOR KERB (FIG. 5) AND CHANNEL SIDE DRAIN
GUARDRAIL NOT SHOWN
SCALE 1:25



PLAN OF TRANSITIONS AT OPEN SIDE INLET FOR KERB (FIG. 5) AND CHANNEL SIDE DRAIN
WITH GUARDRAIL
SCALE 1:25



SECTION X-X
SCALE 1:15



PLAN
SIDE ELEVATION
FRONT ELEVATION

DETAIL OF SPECIAL GUARDRAIL POST
SCALE 1:20

SECTION Y-Y
SCALE 1:10

SECTION Z-Z
SCALE 1:10

NOTES:

1. SIDE INLETS ARE DESIGNED TO TAKE A WHEEL LOAD OF 40kN.

2. MATERIAL:
2.1 REINFORCEMENT: SABS 920, LATEST REVISION.
HIGH TENSILE STEEL:WORKING STRESS - 210 mPa.

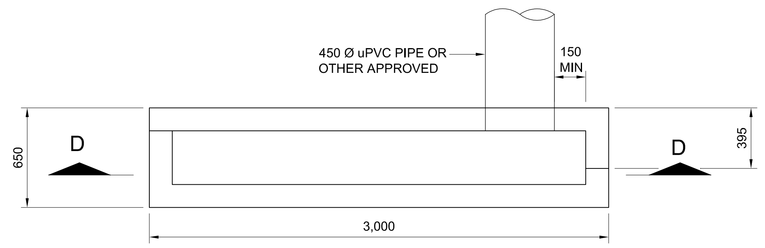
2.2 CONCRETE: SIDE DRAINS AND TRANSITIONS - CLASS C24/30-20
: SIDE INLETS AND MANHOLES - CLASS C24/30-20
: ENERGY BREAKERS - CLASS C24/30-20
: ANCHOR BLOCKS - CLASS C24/30-20
: BENCHING - CLASS C12/15-20

3. THE TYPE OF SURFACE FINISH IS INDICATED AS F1, F2 & U2.
F - FORMED SURFACES.
U - UNFORMED SURFACES.

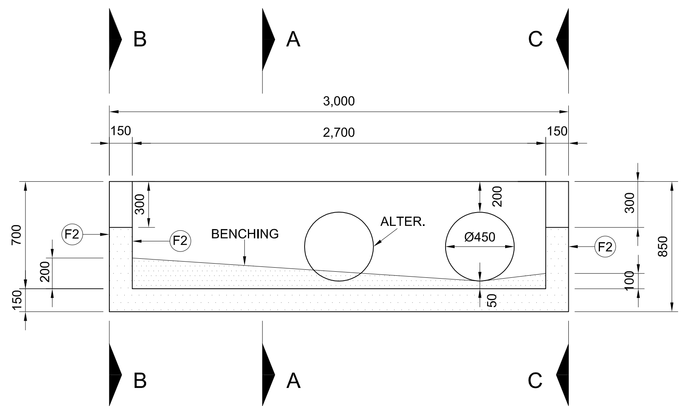
4. MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT IS 50mm.

5. ALL EXPOSED CORNERS MUST BE ROUNDED OFF TO A MINIMUM RADIUS OF 10mm OR BE CHAMFERED 25mm x 25mm.

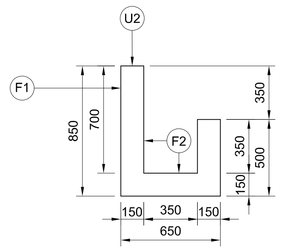
6. THE POSITION OF SIDE INLETS,DOWN PIPES,MANHOLES AND ENERGY BREAKERS ARE INDICATED ON THE DRAINAGE LAYOUT PLANS.



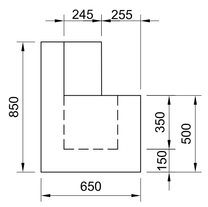
PLAN OF OPEN SIDE INLET
SCALE 1:20



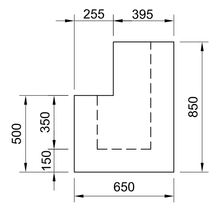
SECTION D-D
SCALE 1:20



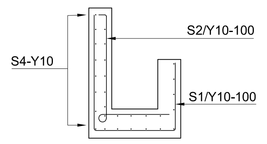
DIMENSIONS
SECTION A-A
SCALE 1:20



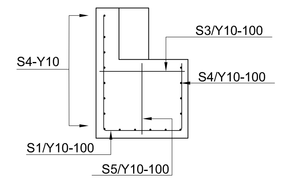
DIMENSIONS
SECTION B-B
SCALE 1:20



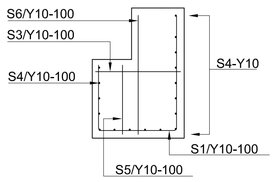
DIMENSIONS
SECTION C-C
SCALE 1:20



REINFORCEMENT
SECTION A-A



REINFORCEMENT
SECTION B-B



REINFORCEMENT
SECTION C-C

STRUCTURAL MEMBER	BAR MARK	TYPE AND DIAMETER	NUMBER OF UNITS	BARS PER UNIT	TOTAL NUMBER	CUT LENGTH mm	LENGTH TOTAL m	BENDING All dimensions are overall unless denoted internal (INT)	
SIDE INLET									
	S1	Y10	1	30	30	1700	51.0	C A B	A = 750 B = 550 C = 400
	S2	Y10	1	28	28	1150	32.2	A B R	A = 650 B = 460 R = 40
	S3	Y10	1	10	10	550	5.5	A	A = 550
	S4	Y10	1	29	29	2900	84.1	A	A = 2900
	S5	Y10	1	9	9	400	3.6	A	A = 400
	S6	Y10	1	6	6	750	4.5	A	A = 750

No.	DATE	REVISION	CONSULT. ENG.
V1	21/06/2023	ORIGINAL VERSION	-

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME -
Prof. Reg. No. -
CHECKED BY
NAME -
Prof. Reg. No. -
DRAWN BY
NAME -

CONSULTANT APPROVAL
Name : -
Prof. Reg. No. : -
Date : -

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg.No. 1998/020664/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
Menlo Park
Pretoria
0081

Private Bag X17
Lynnwood Ridge
0040

Tel: (012) 426 6200

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
MSBBR : R531 SECTION 2 - EMERGENCY REPAIR OF DAMAGED STEEL RIBBED PIPE CULVERT AT km 6.9 AND SINKHOLE AT km 11.4

DRAWING DESCRIPTION
SIDE INLET ON HIGH FILL

SCALE : AS SHOWN **SHEET** 1 **OF** 1

PROJECT NUMBER	R.531-020-2023/1	
DRAWING LOCATION DATA	START	END
ROUTE	R531	R531
SECTION	2	2
DRAWING km DISTANCE	km 6.90	km 11.40
DRAWING TYPE	ROADS - DRAINAGE	
BRIDGE/STRUCTURE No.	-	
CONSULTANT DRAWING No.	TP1916.32-H01	VER V1
SANRAL DOCUMENT #	-	

DRAWING TP1916.32-H01