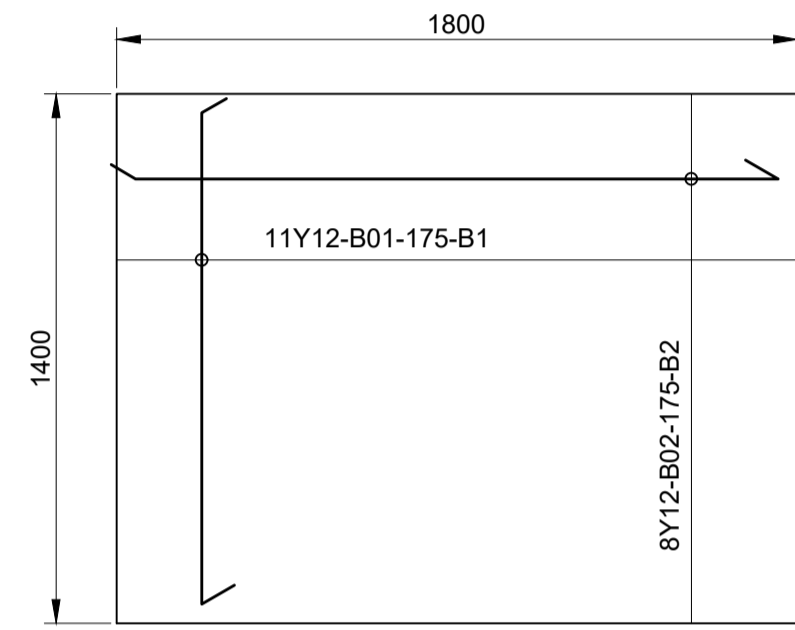
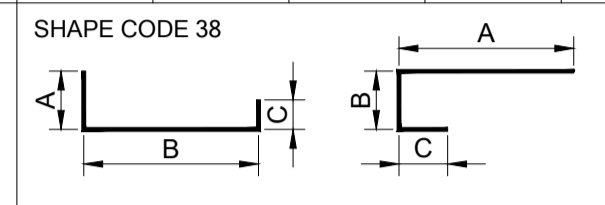


STORMWATER PIPES UP TO 1200mmØ

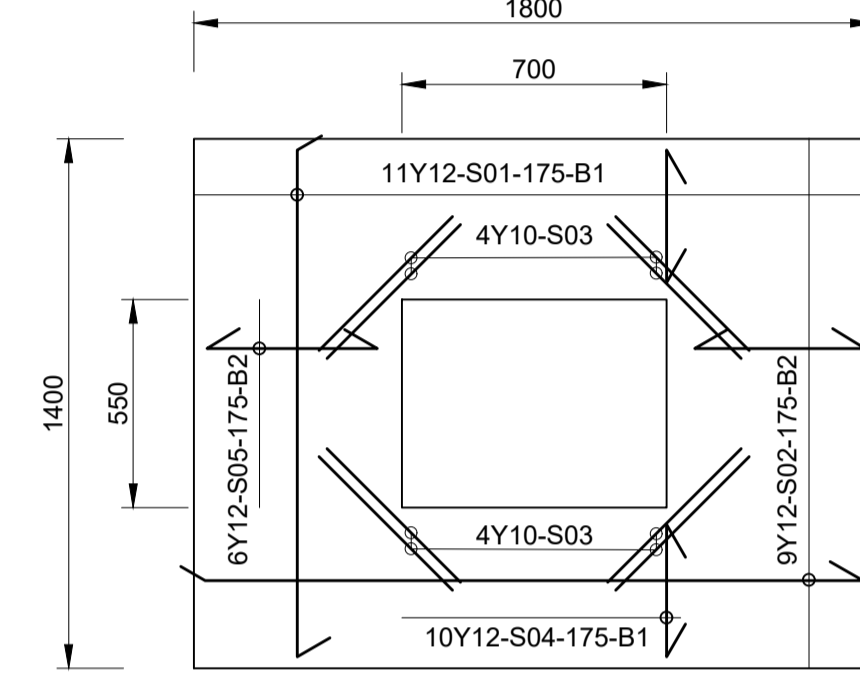
PIPE Ø	L	W
0-525	1.8	1.4
600-675	1.8	1.6
750-900	1.8	1.8
1000-1200	2.0	2.0

BENDING SCHEDULE FOR PIPE Ø ≤ 525 MANHOLE												
MEMBER NAME	BAR MARK	TYPE SIZE	SHAPE CODE	TOTAL QTY	TOTAL LENGTH	BENDING				MASS (Kg/m)	MASS PER BAR (Kg)	TOTAL MASS (Kg)
						A	B	C	r			
1 BASE	B01	Y12	38	11	1475	100	1300	75	-	0,888	1,310	14,408
2	B02	Y12	38	8	1875	100	1700	75	-	0,888	1,665	13,320
3 SLAB	S01	Y12	38	11	1515	100	1340	75	-	0,888	1,345	14,799
4	S02	Y12	38	9	1915	100	1740	75	-	0,888	1,701	15,305
5	S03	Y10	20	8	500	500	-	-	-	0,617	0,309	2,468
6	S04	Y12	38	10	550	100	350	100	-	0,888	0,488	4,884
7	S05	Y12	38	6	650	100	450	100	-	0,888	0,577	3,463

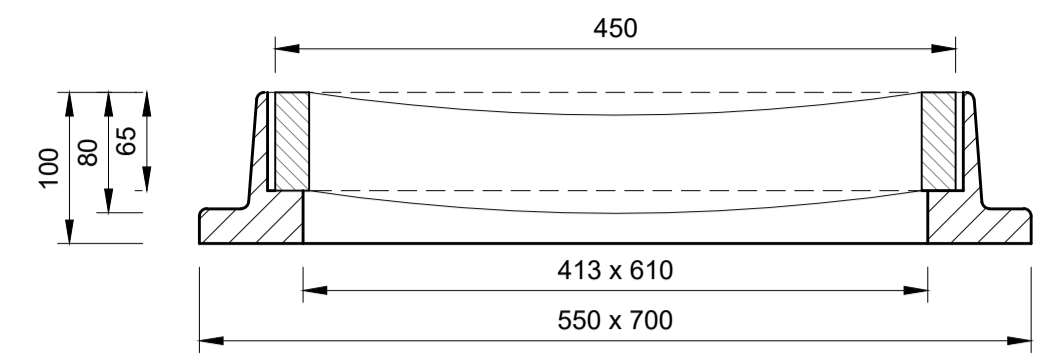
NOTES:
 1. THE SHAPE CODES & DIMENSIONS GIVEN ARE IN ACCORDANCE WITH SANS: 82 BENDING DIMENSIONS FOR CONCRETE REINFORCEMENT.
 2. R: ROUND MILD STEEL BARS TO SANS 920.
 3. Y: ROUND DEFORMED HIGH TENSILE BARS TO SANS 920, min. YIELD POINT 450MPa.



BASE REBAR DETAIL
SCALE: 1:20

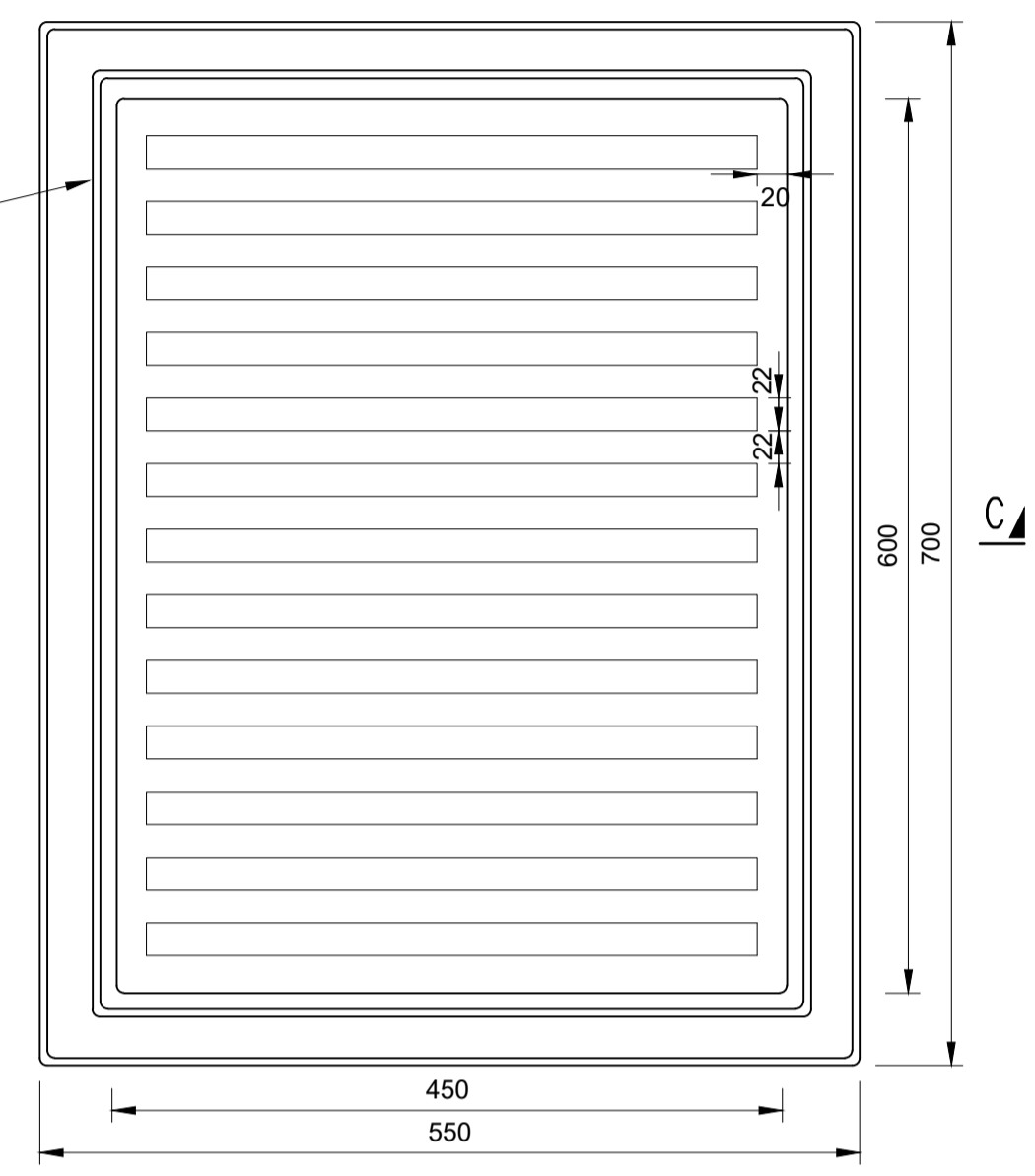


COVER SLAB REBAR DETAIL
SCALE: 1:20

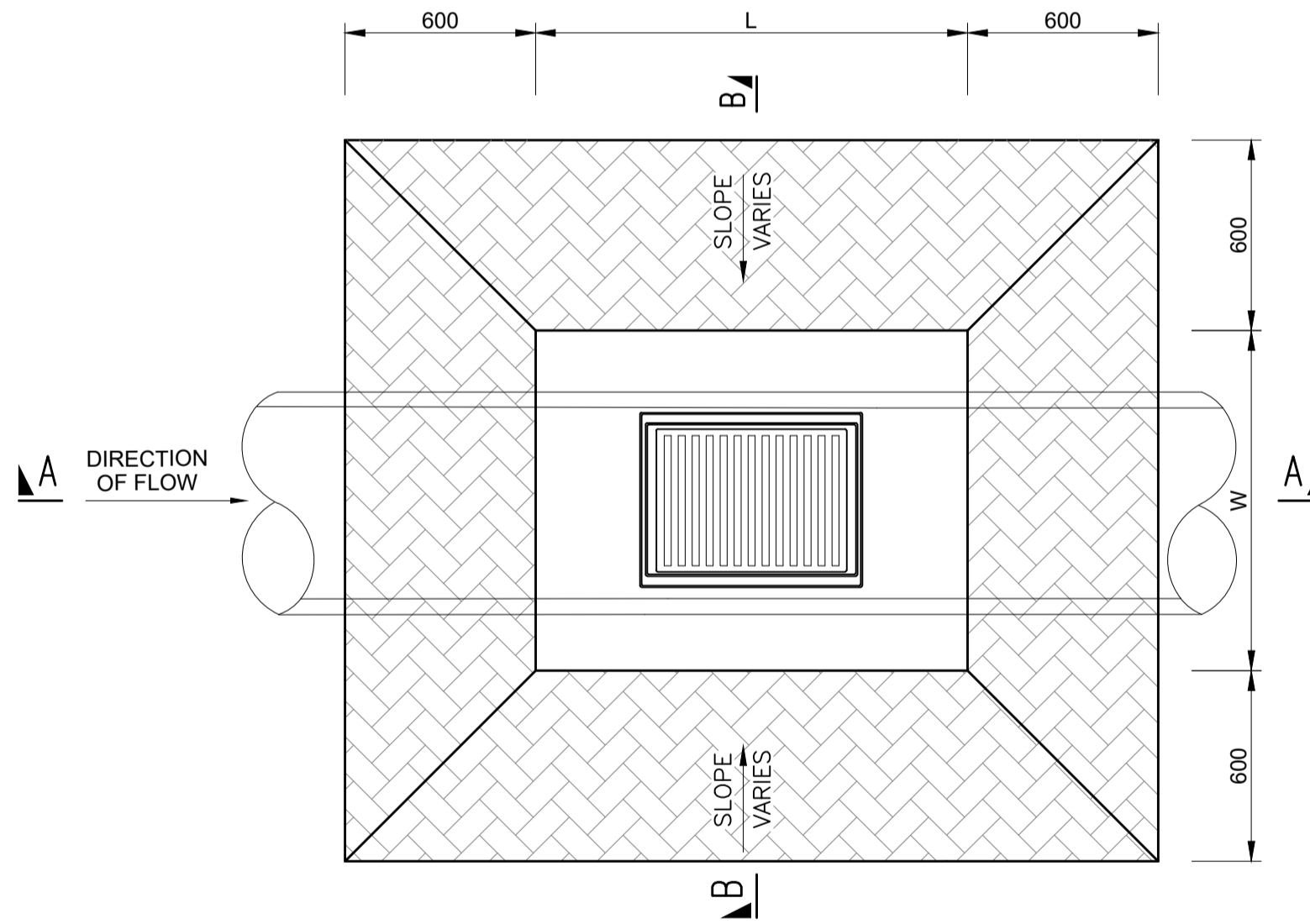


SECTION C-C
SCALE: 1:5

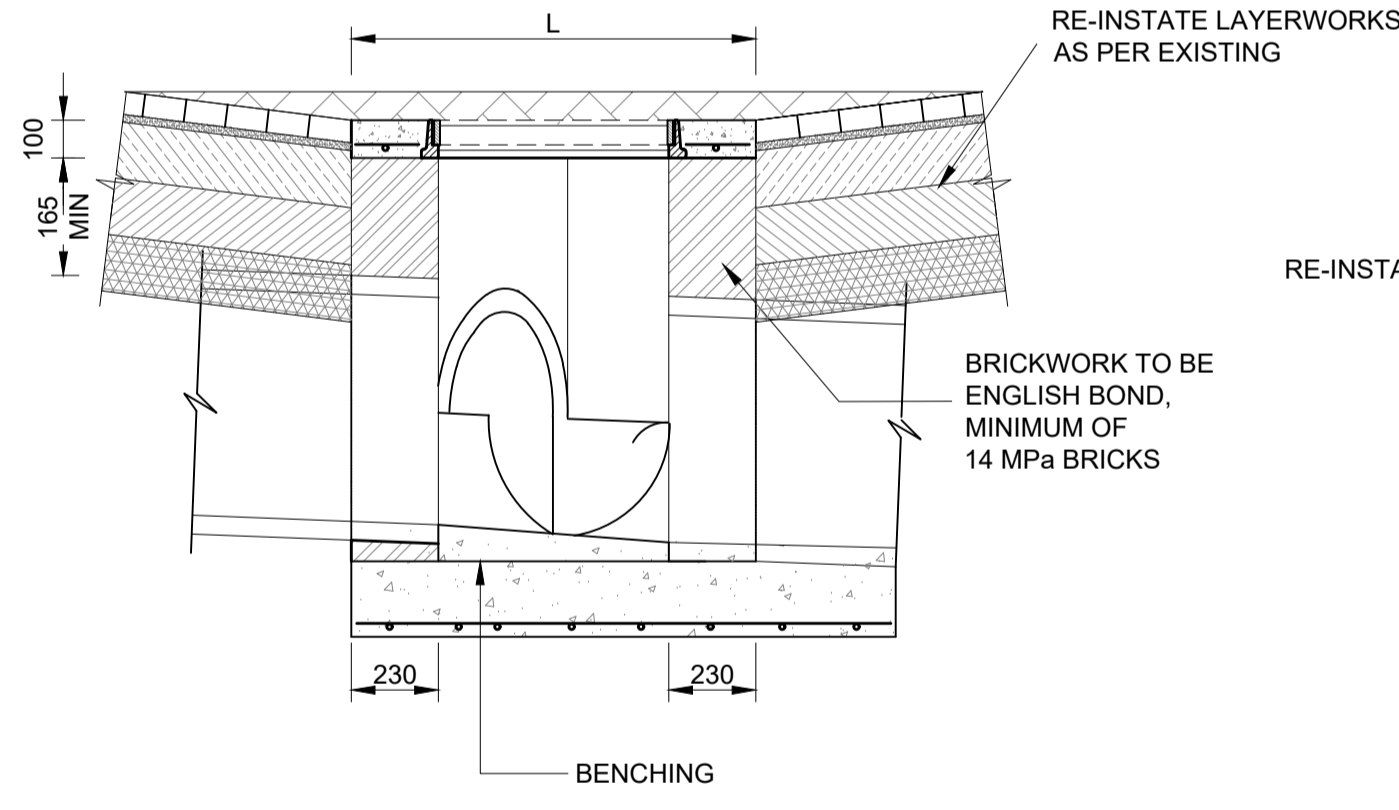
GREY IRON STORM WATER (SAINT-GOBAIN) GRATING AND FRAME TO SANS 1115 SIZE = 450 X 600 OR SIMILAR APPROVED



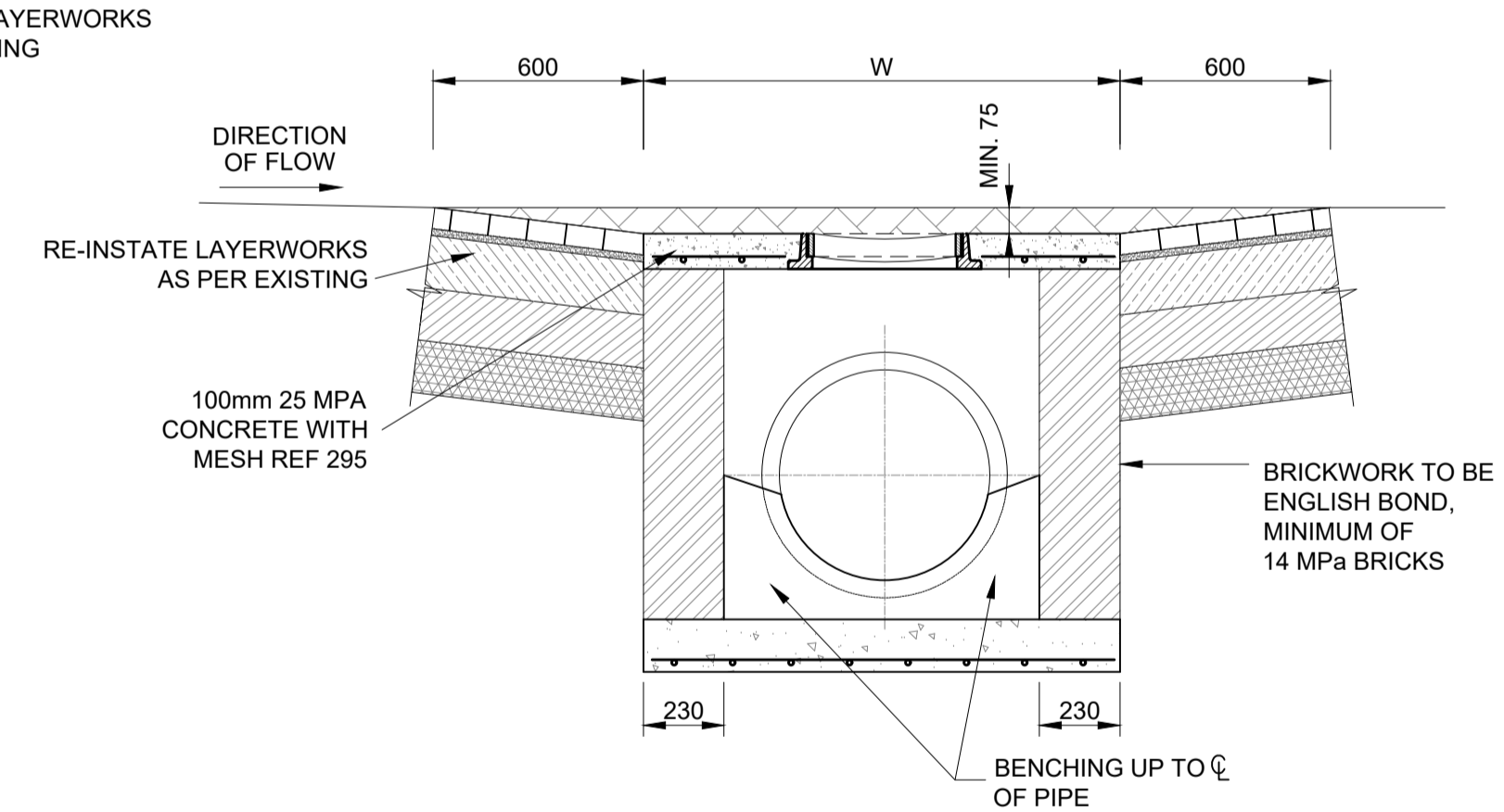
GRID COVER DETAIL
SCALE: 1:5



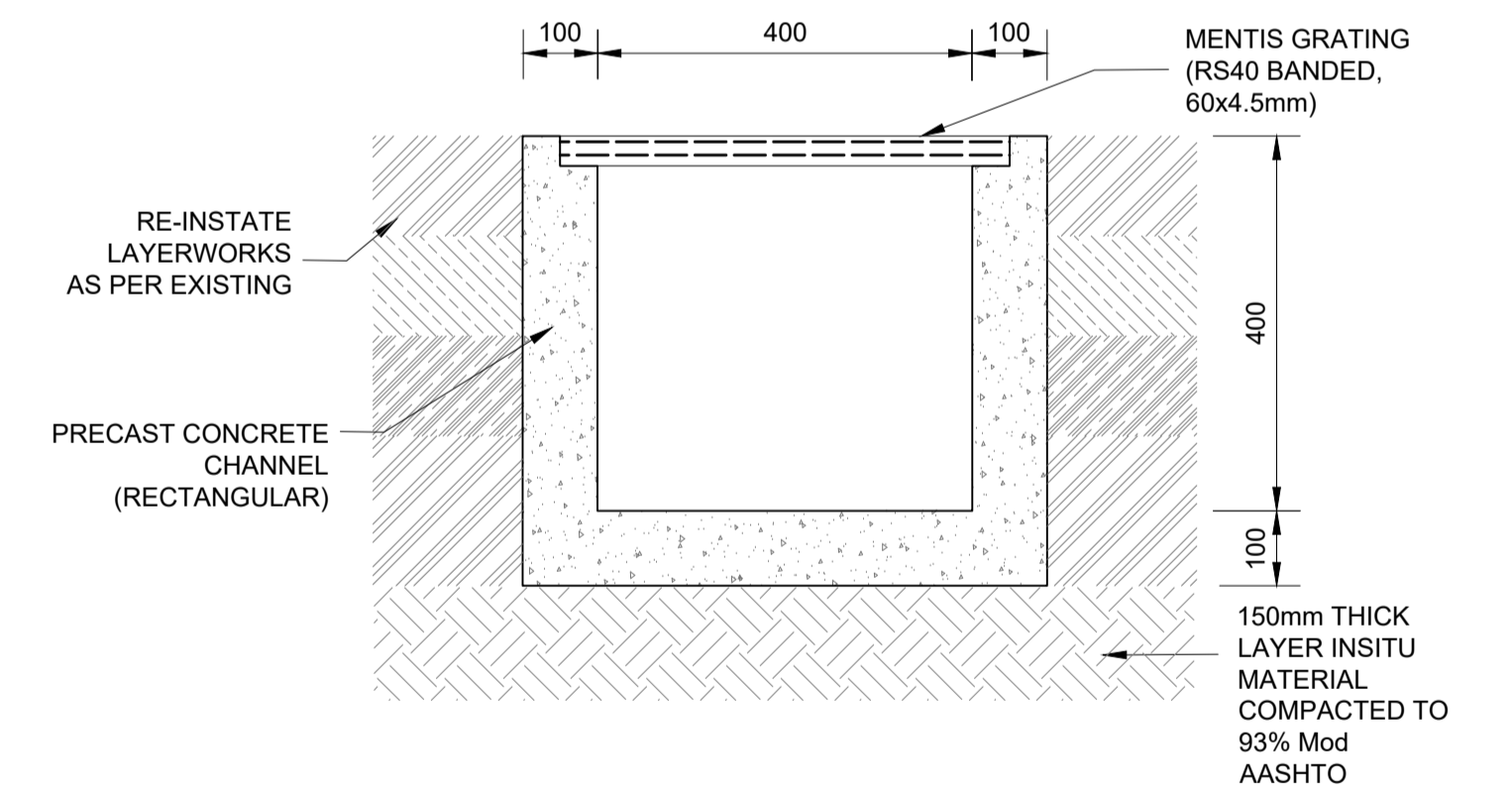
DETAILS OF GRID INLET
SCALE: 1:20



SECTION A-A
SCALE: 1:20



SECTION B-B
SCALE: 1:20



CONCRETE CHANNEL (PRECAST)
SCALE: NTS

GENERAL NOTES:

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS.
- ALL DIMENSIONS AND HEIGHTS ARE TO BE CHECKED ON SITE REPORT DISCREPANCIES TO ARCHITECT OR ENGINEER.
- THIS DRAWING MUST NOT BE USED TO SCALE OFF. USE ONLY WRITTEN DIMENSIONS. CONTACT THE ENGINEER OR ARCHITECT WHERE CLARITY IS SOUGHT.
- FOR SETTING OUT DATA, SETTING OUT POINTS AND DATUM LEVELS REFER TO SURVEY INFORMATION AND ARCHITECT'S DRAWINGS.
- STRUCTURAL WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND THE RELEVANT S.A.N.S SPECIFICATIONS.
- CONSULT RELEVANT ARCHITECT'S, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND DETAILS AS RELEVANT FOR DRAINAGE, STORMWATER OUTLET, RWDPs AND HOLES AND SLEEVES FOR THESE SERVICES. NO HOLES ARE TO BE CORED WITHOUT ENGINEERS WRITTEN APPROVAL.

DRAWING NO.	REFERENCE
1002-001-1000	CIVILS LAYOUT

NO.	DESCRIPTION	BY	CHKD	APPD	DATE
3	ISSUED FOR CONSTRUCTION	ZD	SH	SH	16-10-2025
2	ISSUED FOR CLIENT APPROVAL	ZD	SH	MM	30-08-2023
1	ISSUED FOR CLIENT APPROVAL	ZD	SH	MM	20-03-2023

CLIENT LOGO

CLIENT

TITLE	NAME	DATE

MAIN CONSULTANT		
TITLE	NAME	DATE
DRAWN	Z. DLAMINI	16-10-2025
CHECKED		
ENG. COORD		
ARCHITECT		
ELEC. ENG.	T. MBATHA	16-10-2025
MECH. ENG.	R. CHABILAL	16-10-2025
STRUCT. ENG.		
CIVIL ENG.	S. HERBSTEIN	16-10-2025
INSTRU. ENG.		
PROJ. MGR.	M. MADIBA	16-10-2025
APPROVED BY		
NAME	S. HERBSTEIN	DATE
SIGNATURE		16-10-2025
REG. NUMBER	20070285	

EST. 2015

Project: TNPA/2022/09/1121/12742/RFP: REHABILITATION OF EXISTING SHIP REPAIR FACILITY AT THE PORT OF MOSSEL BAY

Drawing: STORMWATER: TYPICAL CHANNEL AND GRID INLET DETAILS

SCALE	DATE	Drawing Number	CLIENT Drawing Number	Rev.	Sheet size	Status
N.T.S	10-02-23	1002-011-1004		3	A1	ISSUED FOR CONSTRUCTION