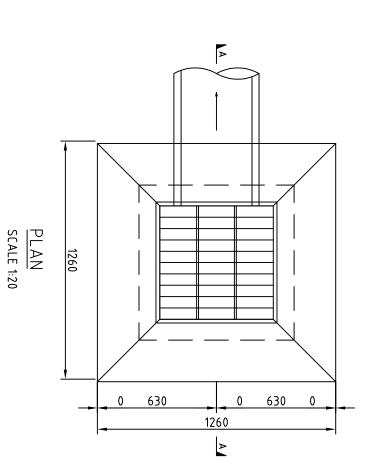
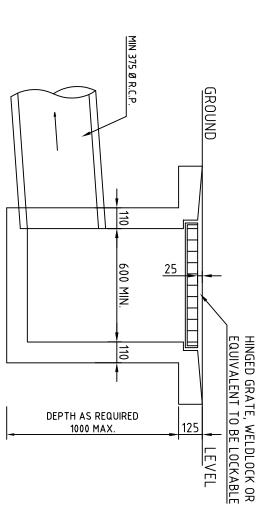


					C APPROVED FOR USE	B ISSUED FOR COMMENT	A ISSUED FOR COMMENT	REV. DESCRIPTION
					GSB	JC	NS	INITIALS
					03/07/09	24/2/09	22/10/08	DATE
SIRAIEGIC							8	
	DWG NO.			DESCRIPTIO			8	PROJECT
SIRAIEGIC ALLIANCE WBC011	DWG NO.	+001P/		DESCRIPTION				PROJECT
	DWG NO. PA	+001P/	STORMWAILER					PROJECT

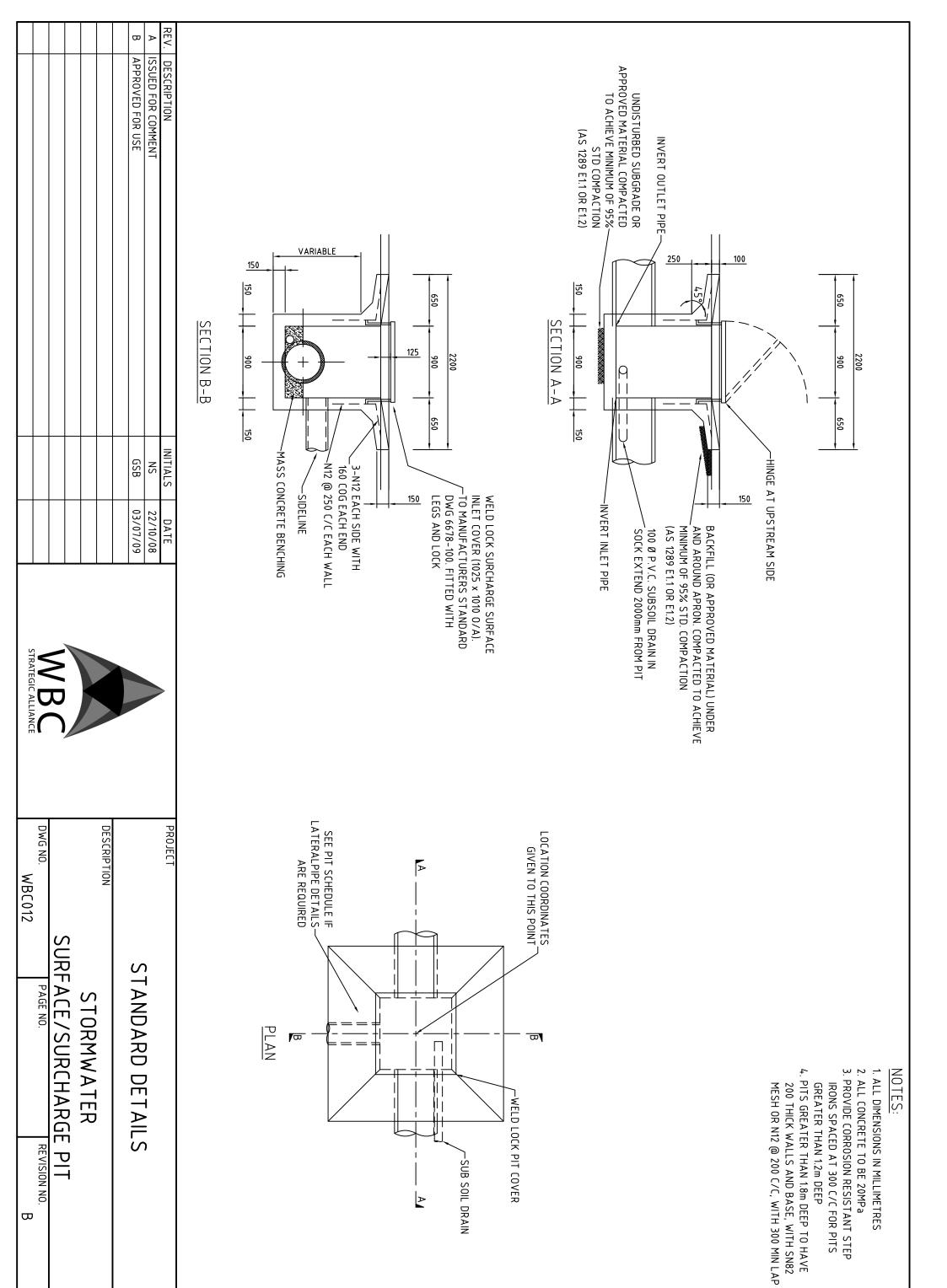


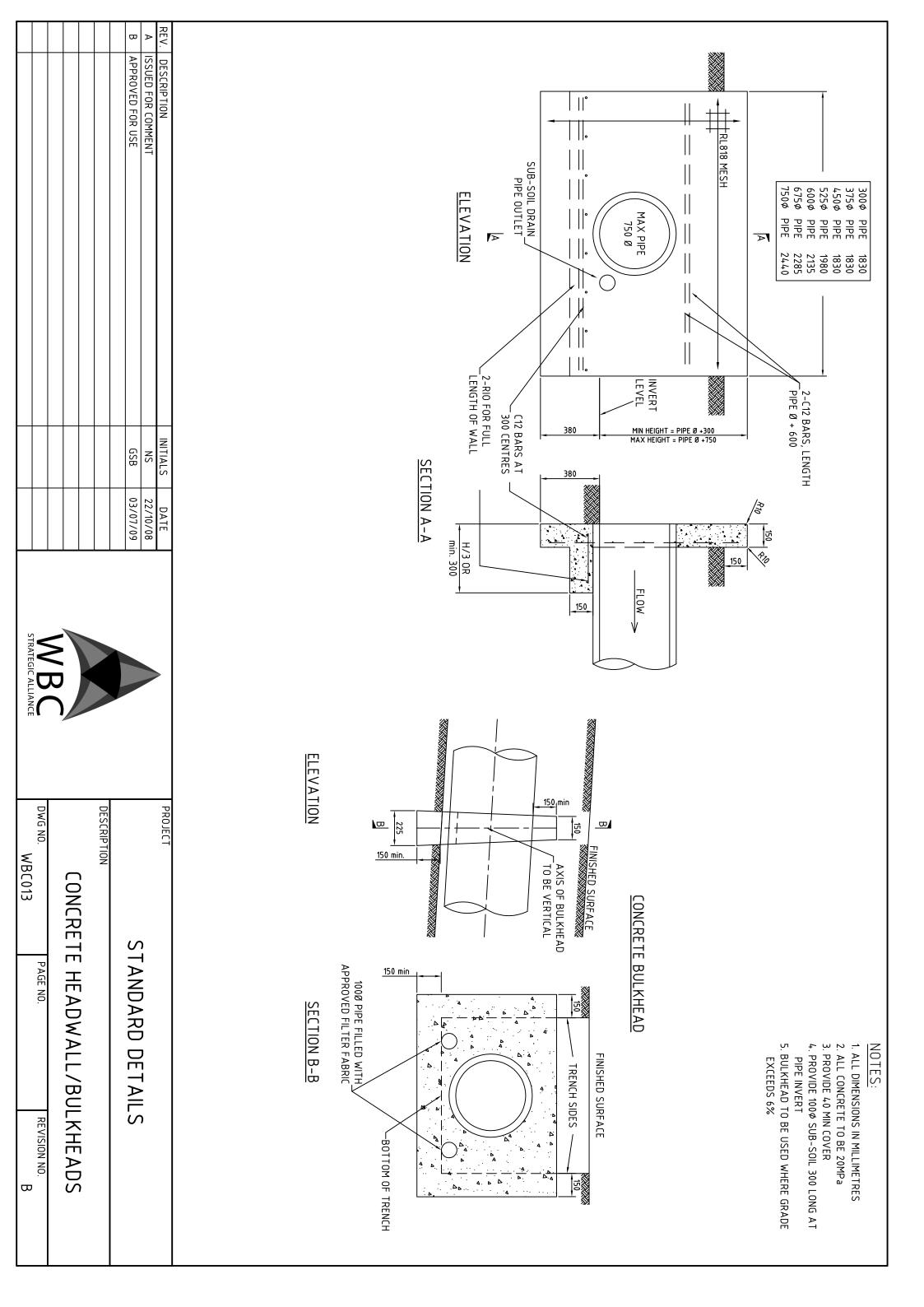


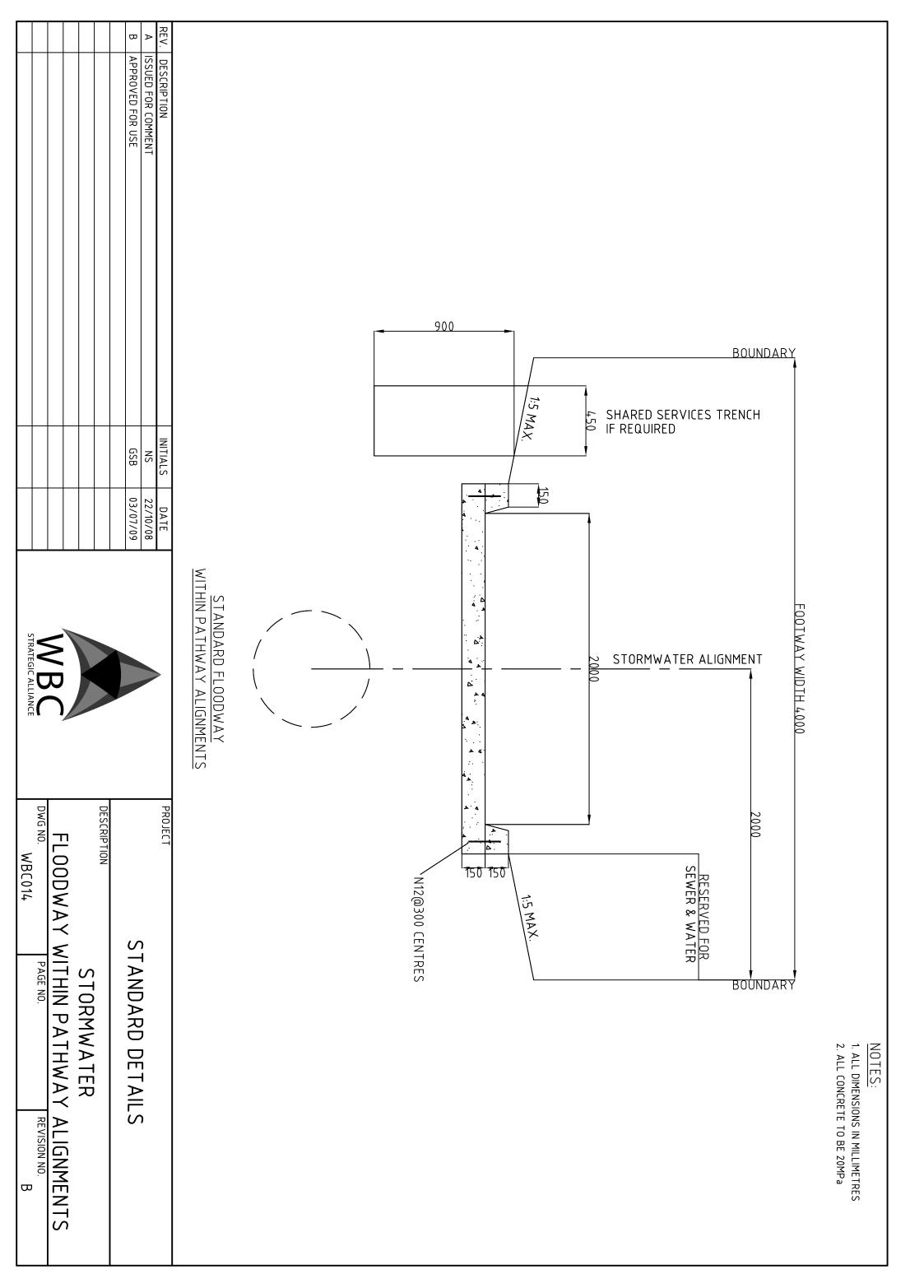
SECTION A-A
SCALE 1:20

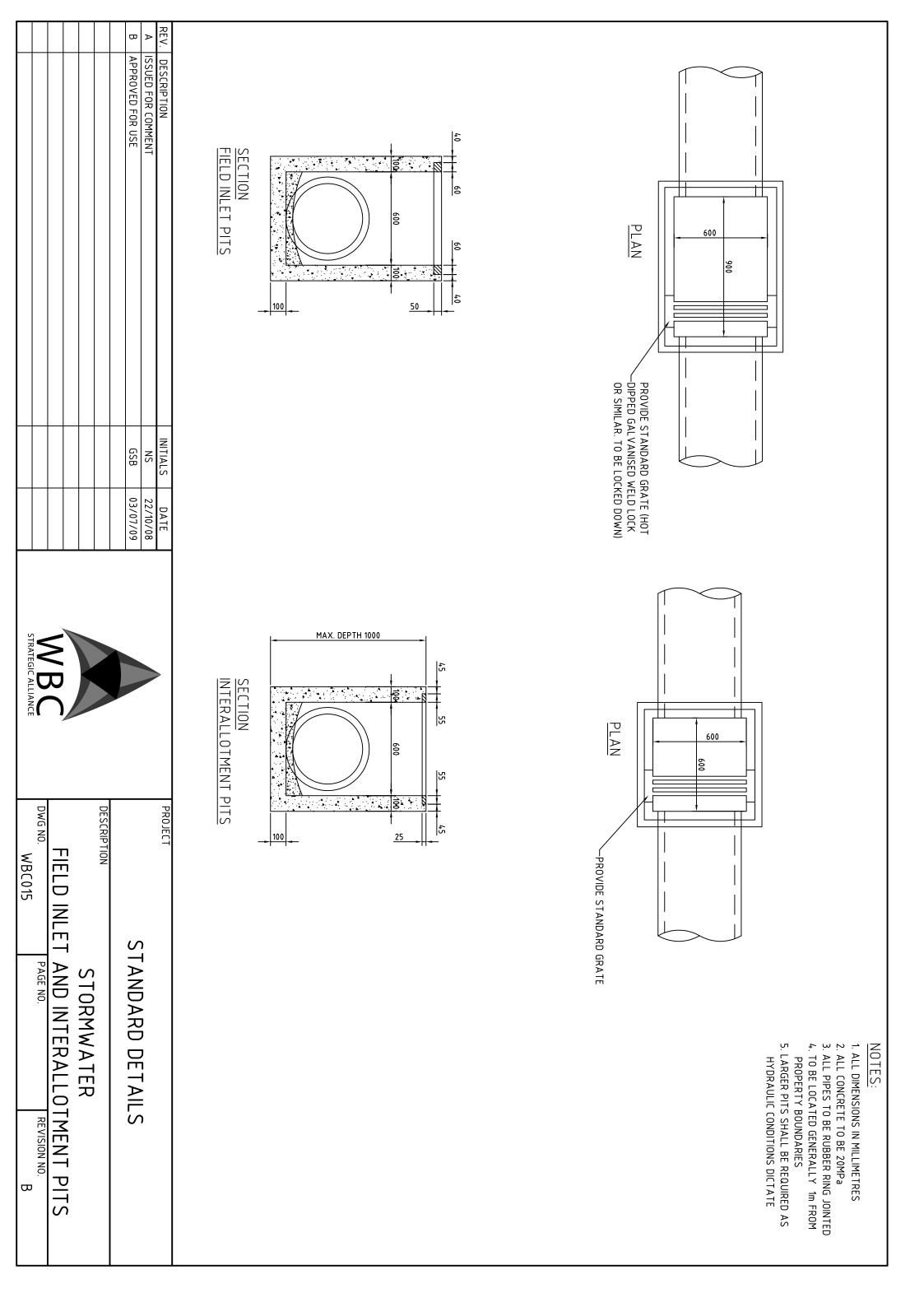
NOTES:

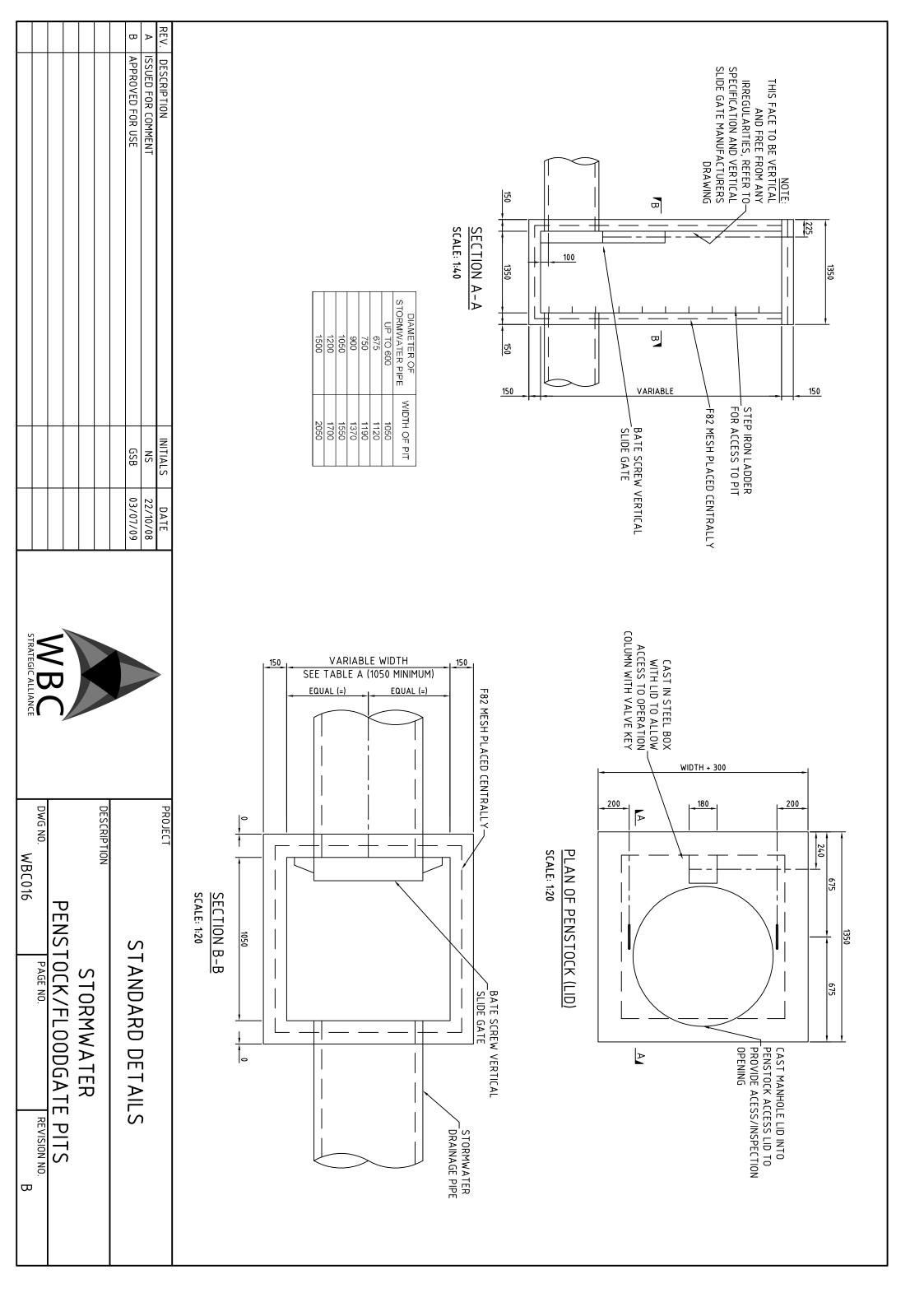
- ALL DIMENSIONS IN MILLIMETRES
   ALL CONCRETE TO BE 20MPa
   NO LIP TO BE PLACED AT GUTTER LINE

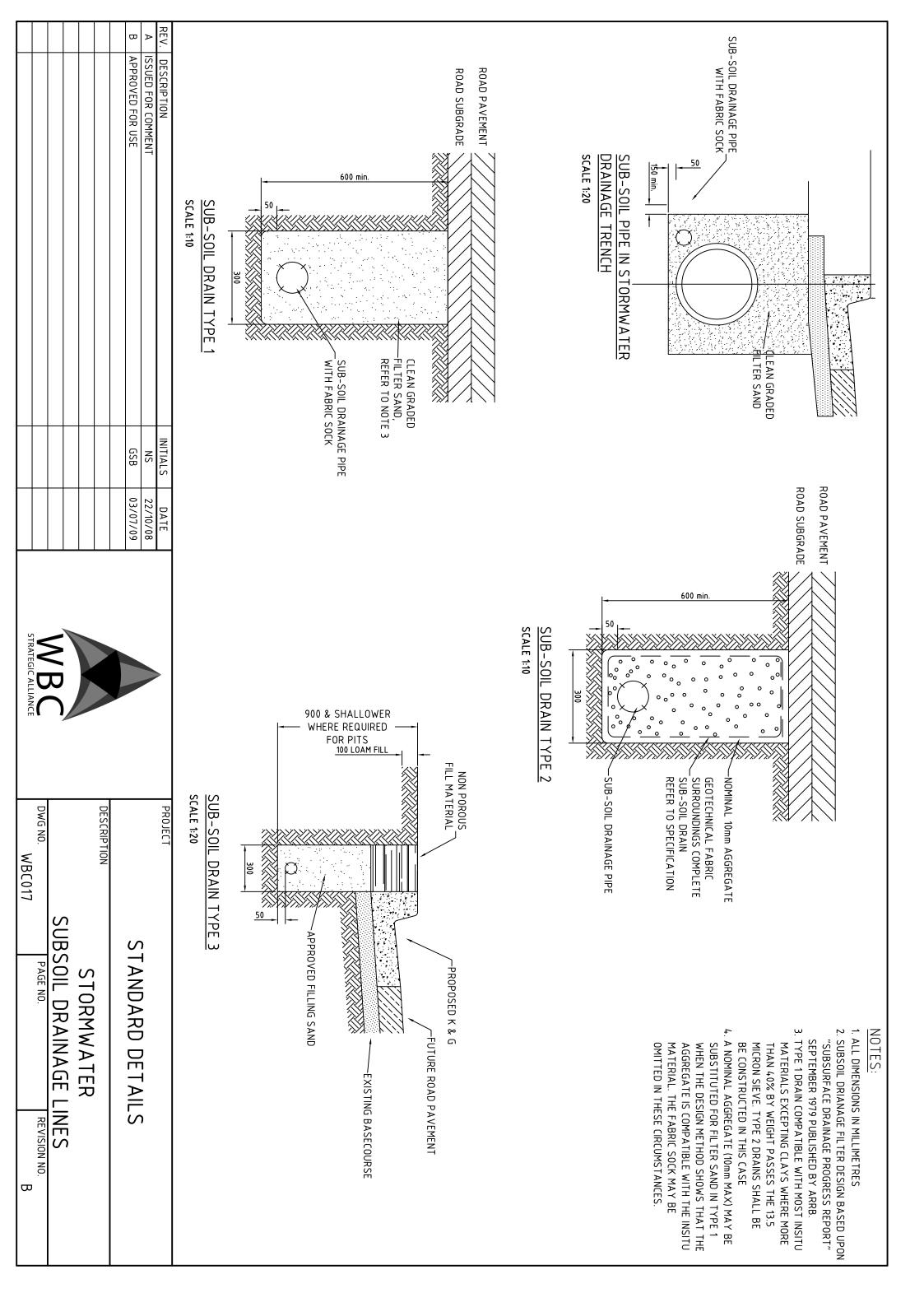


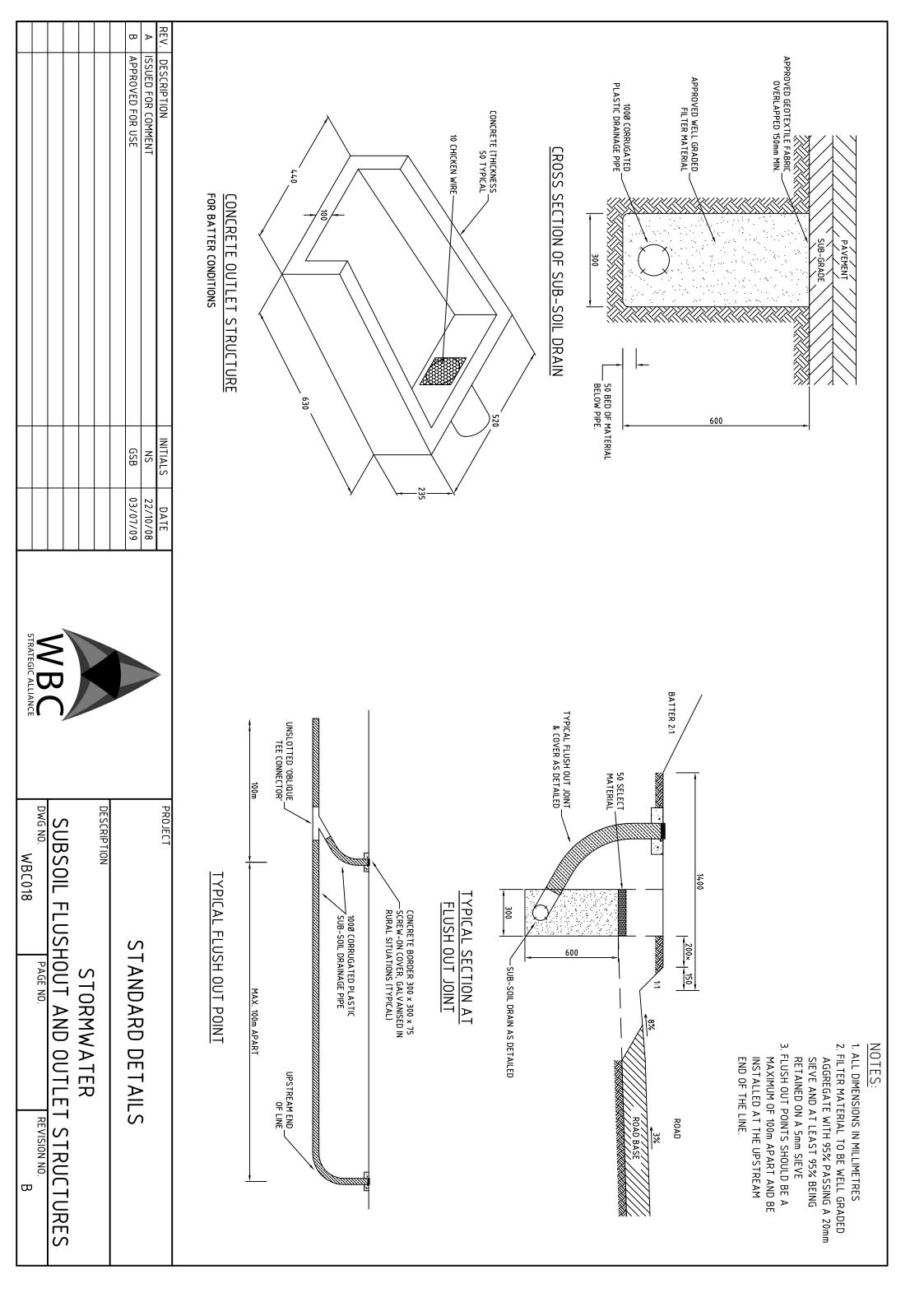


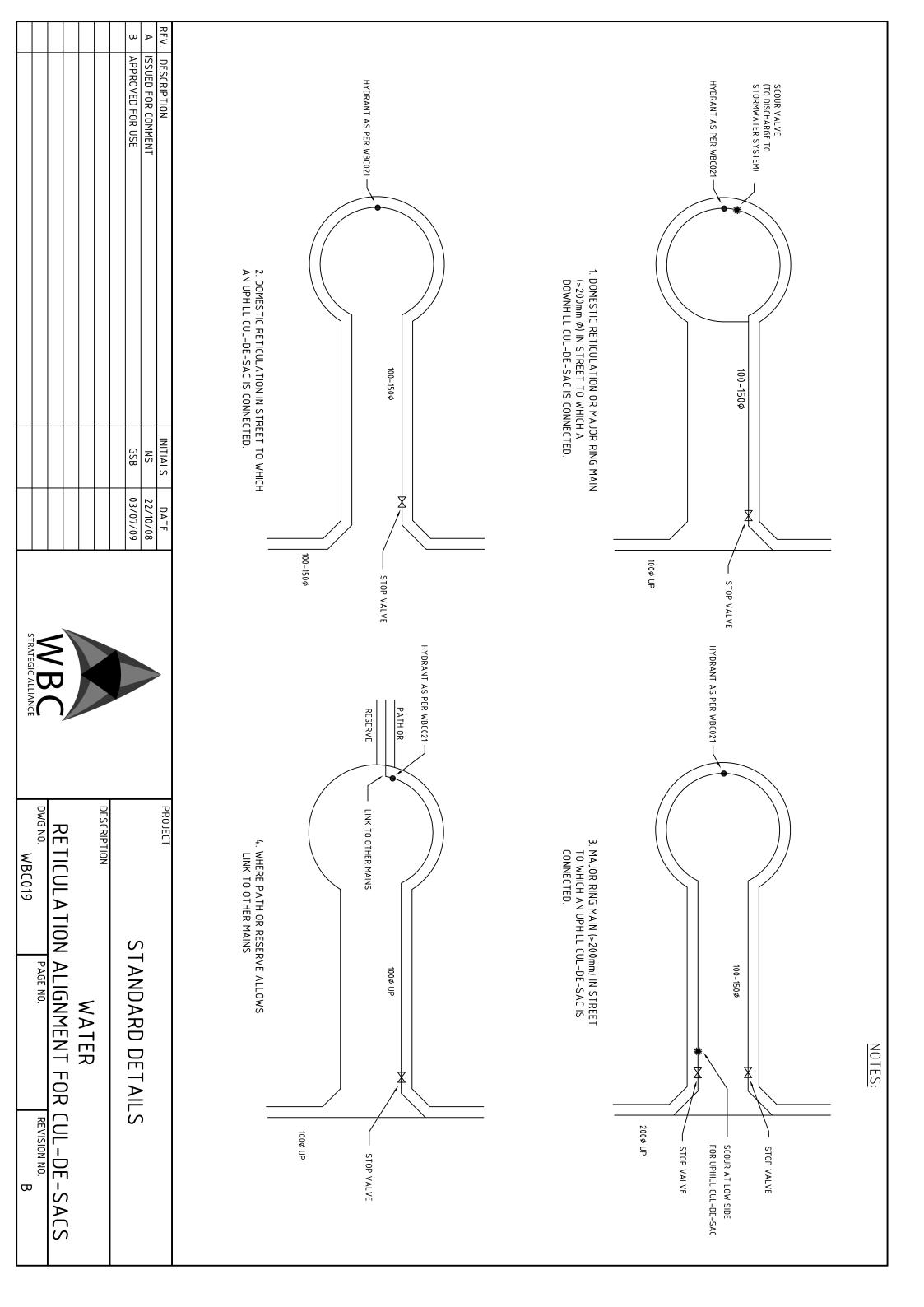


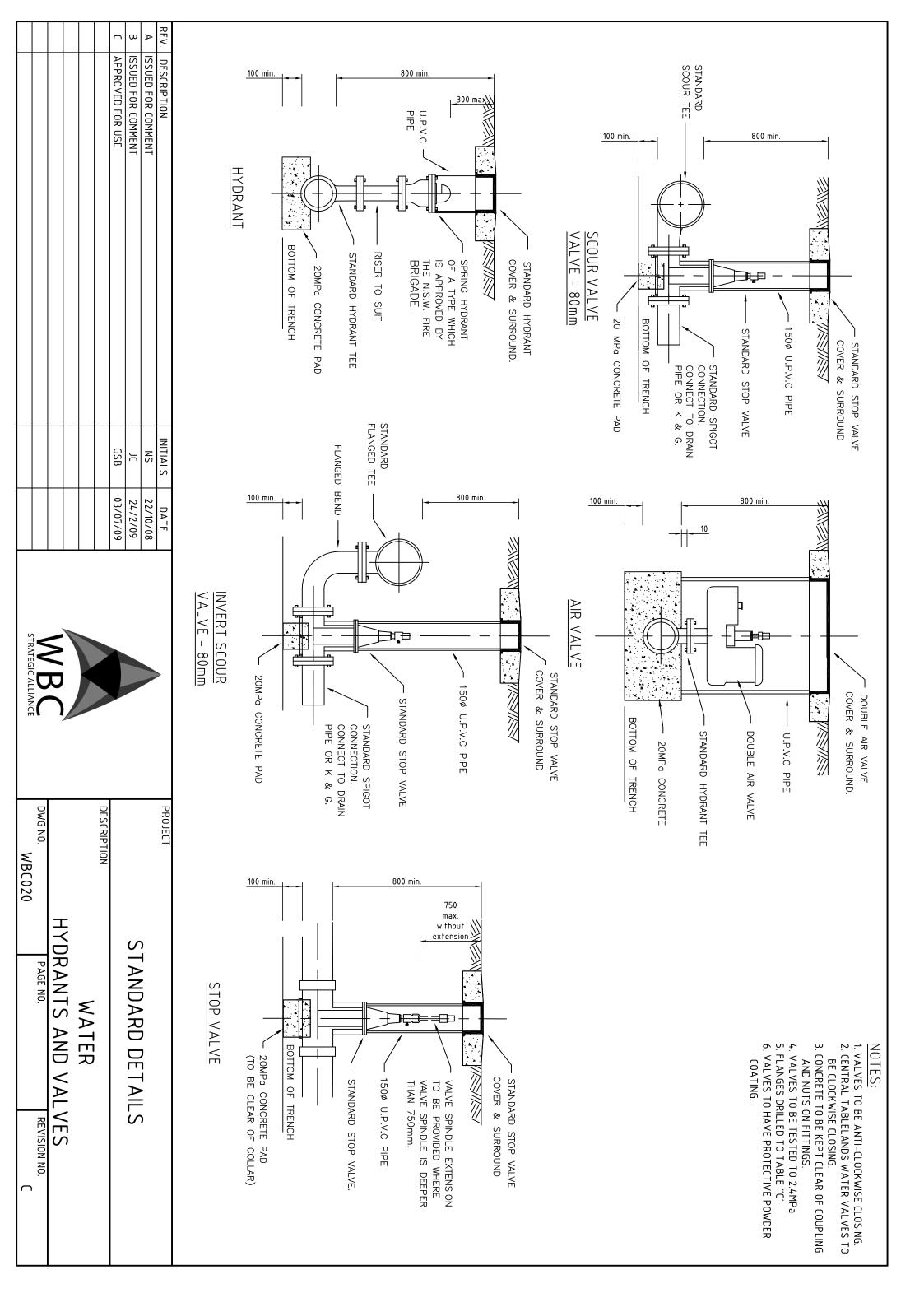


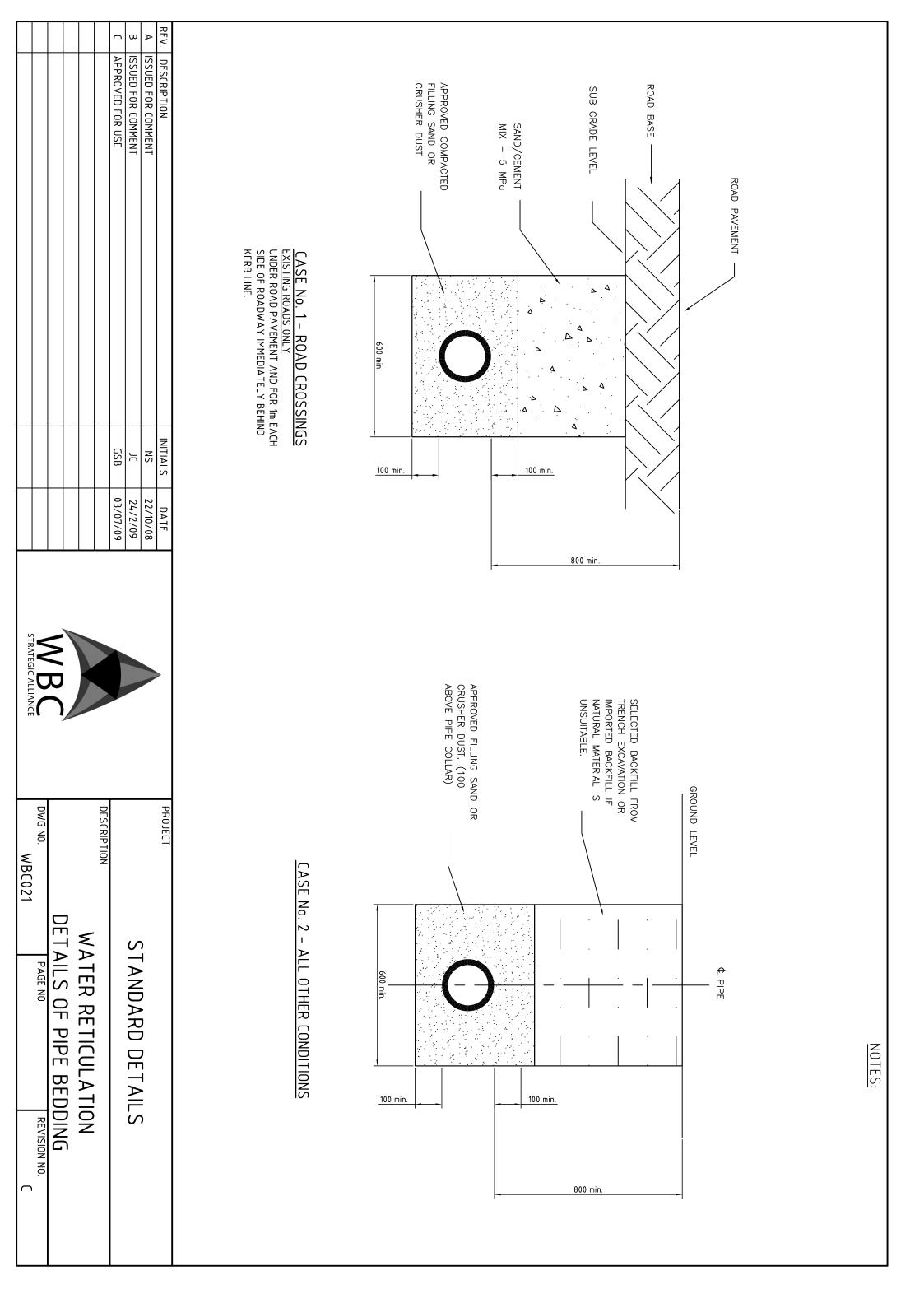


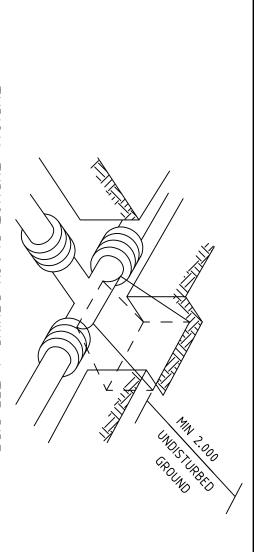




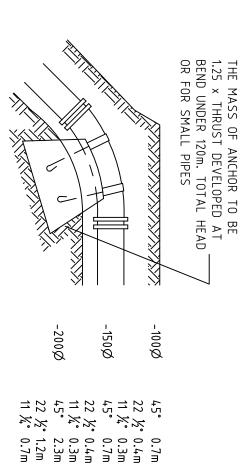






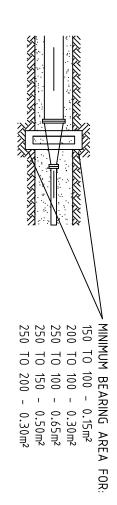


# TYPICAL THRUST BLOCK BEHIND A TEE PIPE



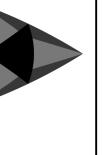
# TYPICAL ANCHORAGE OF BEND IN VERTICAL PLANE

RELEVANT COUNCIL'S APPROVAL, AND FLANGE FITTING WILL BE PERMITTED. 90° VERTICAL BENDS SHALL NOT BE USED WITHOUT THE



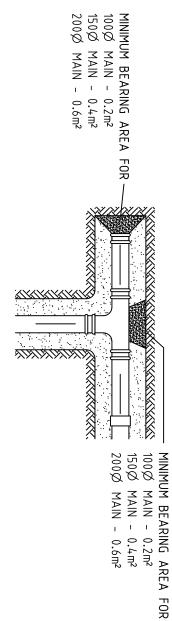
## TYPICAL ANCHORAGE OF TAPER PIPE

REV.	REV. DESCRIPTION	INITIALS	DATE	
Ъ	ISSUED FOR COMMENT	SN	22/10/08	
В	ISSUED FOR COMMENT	JC	24/2/09	
)	APPROVED FOR USE	GSB	03/07/09	



## NOTES:

- 1. MINIMUM BEARING AREAS STATED REFER TO BEARING AGAINST UNDISTURBED SOLID NATURAL GROUND THAT MUST CONTINUE FOR 2m MINIMUM FROM THE FACE OF THE THRUST BLOCK.
- THRUST BLOCKS AND ANCHORAGES FOR MAINS LARGER THAN  $200\,\mathrm{mm}$  AND FOR UNSTABLE GROUND TO BE DESIGNED BY A PRACTISING STRUCTURAL ENGINEER.
- CONCRETE SHALL BE 20MPa.



MINIMUM BEARING AREA FOR 1000 MAIN - 0.1m² 1500 MAIN - 0.2m² 200Ø MAIN - 0.3m² MACHANICANIA  $22\frac{1}{2}$ BEND

8 BEND

£5°

200Ø MAIN - 0.50m² 1000 MAIN - 0.15m² 1500 MAIN -

MINIMUM BEARING AREA FOR

WATER FLOW

MINIMUM BEARING AREA FOR

100Ø MAIN - 0.25m² 150Ø MAIN - 0.50m² 200Ø MAIN - 0.80m²

## TYPICAL LOCATION OF THRUST BLOCK

# PROJECT

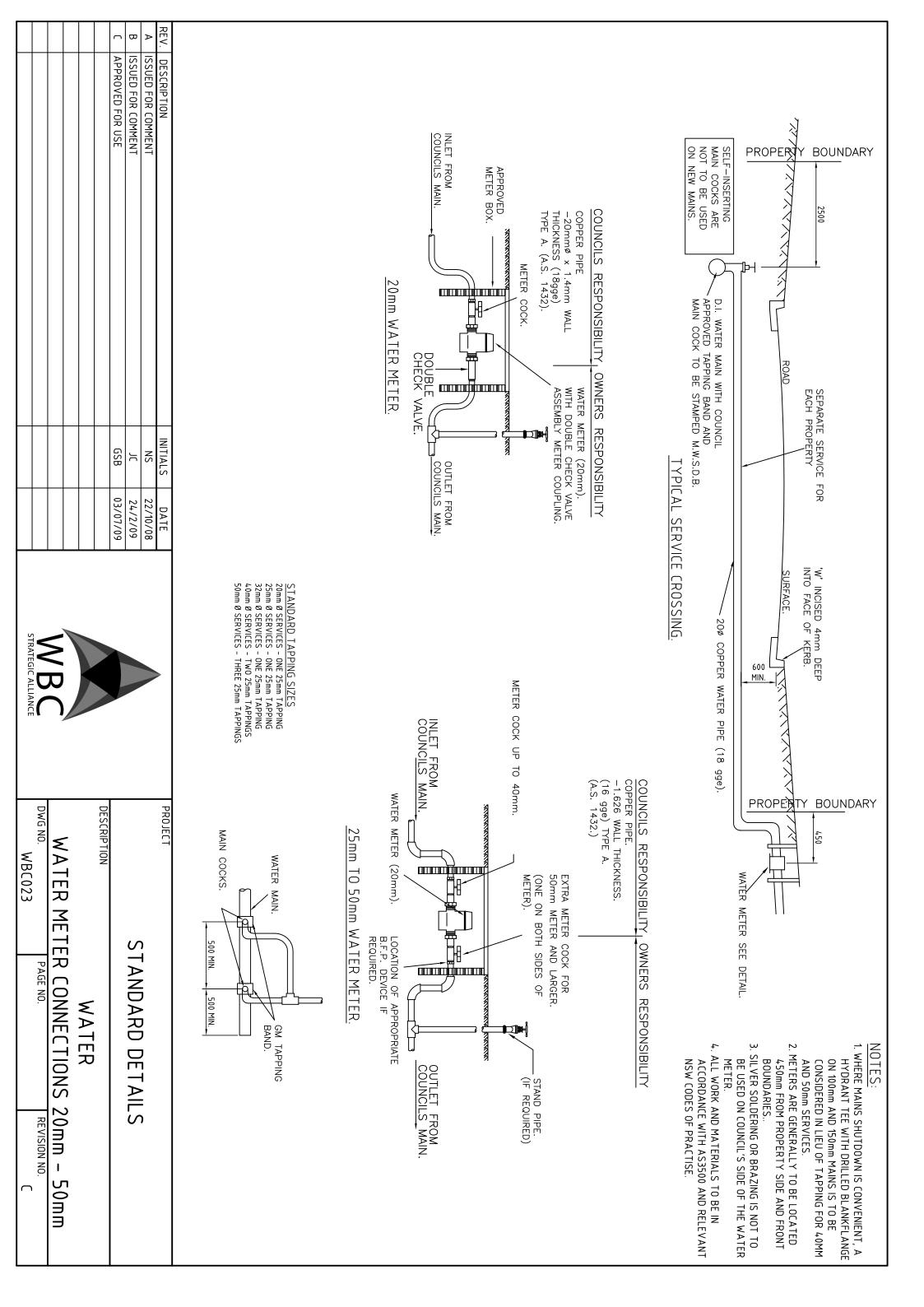
## STANI DARD **DETAILS**

DESCRIPTION

HRUST BLOCK LOCATIONS WATER

**WBC022** PAGE NO. REVISION NO.

DWG NO.











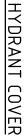
TO BE USED ON KERBS BOTH SIDE OF ROAD FOR WATER MAIN ROAD CROSSINGS MARKER PLATES

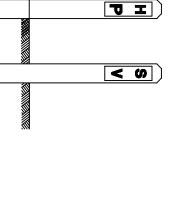
TO BE USED IN URBAN AREAS WITH KERB AND GUTTER

MARKER PLATES



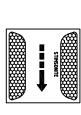




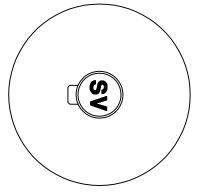


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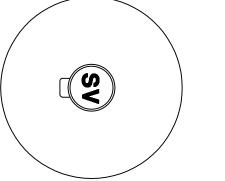
OPPOSITE HYDRANTS BLUE CATS EYES
TO BE USED ON SEALED ROADS



STOP VALVE COVER

TO BE USED IN RURAL
RESIDENTIAL AREAS WITHOUT
KERB AND GUTTER

INDICATOR POSTS

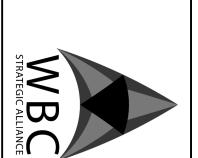


PROJEC1

- 1. INDICATOR POSTS USED IN RURAL
  RESIDENTIAL AREAS SHALL BE LOCATED
  AT THE PROPERTY ALIGNMENT OPPOSITE
  THE VALVE OR HYDRANT,
- 2. MARKER PLATES USED IN URBAN AREAS SHALL BE FIXED TO THE KERB ON THE SAME SIDE OF ROAD AS THE VALVE OR
- HYDRANT.
- 3. MARKER POST AND PLATE ABBREVIATIONS:
- HP HYDRANT PATH
  HR HYDRANT ROAD
  SV STOP VALVE
  4. BLUE CATS EYES SHALL BE FIXED IN THE
  CENTRE OF THE ROADWAY OPPOSITE SHOWN. HYDRANT WITH ARROW POINTING IN DIRECTION OF HYDRANT. CATS EYES ARE TO HAVE REFLECTORS ON BITH SIDES AS
- 4. HYDRANT COVERS TO BE PAINTED WHITE AND STOP VALVE COVERS PAINTED YELLOW.

  5. FACE LID HINGES TOWARD TRAFFIC FLOW.

03/07/09	GSB	APPROVED FOR USE	C
24/2/09	JC		В
22/10/08	NS		Α
DATE	INITIALS	REV. DESCRIPTION	REV



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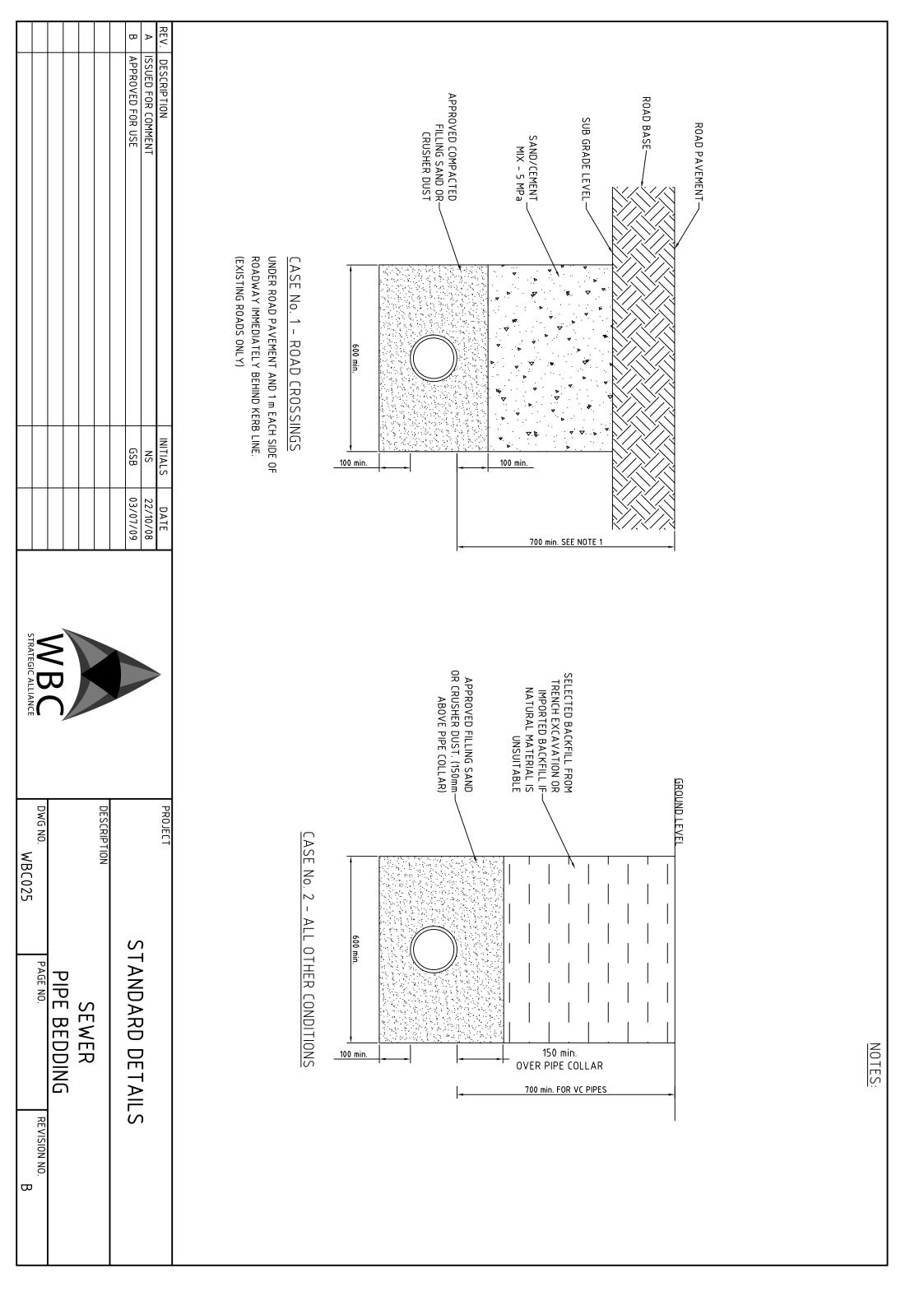
DESCRIPTION

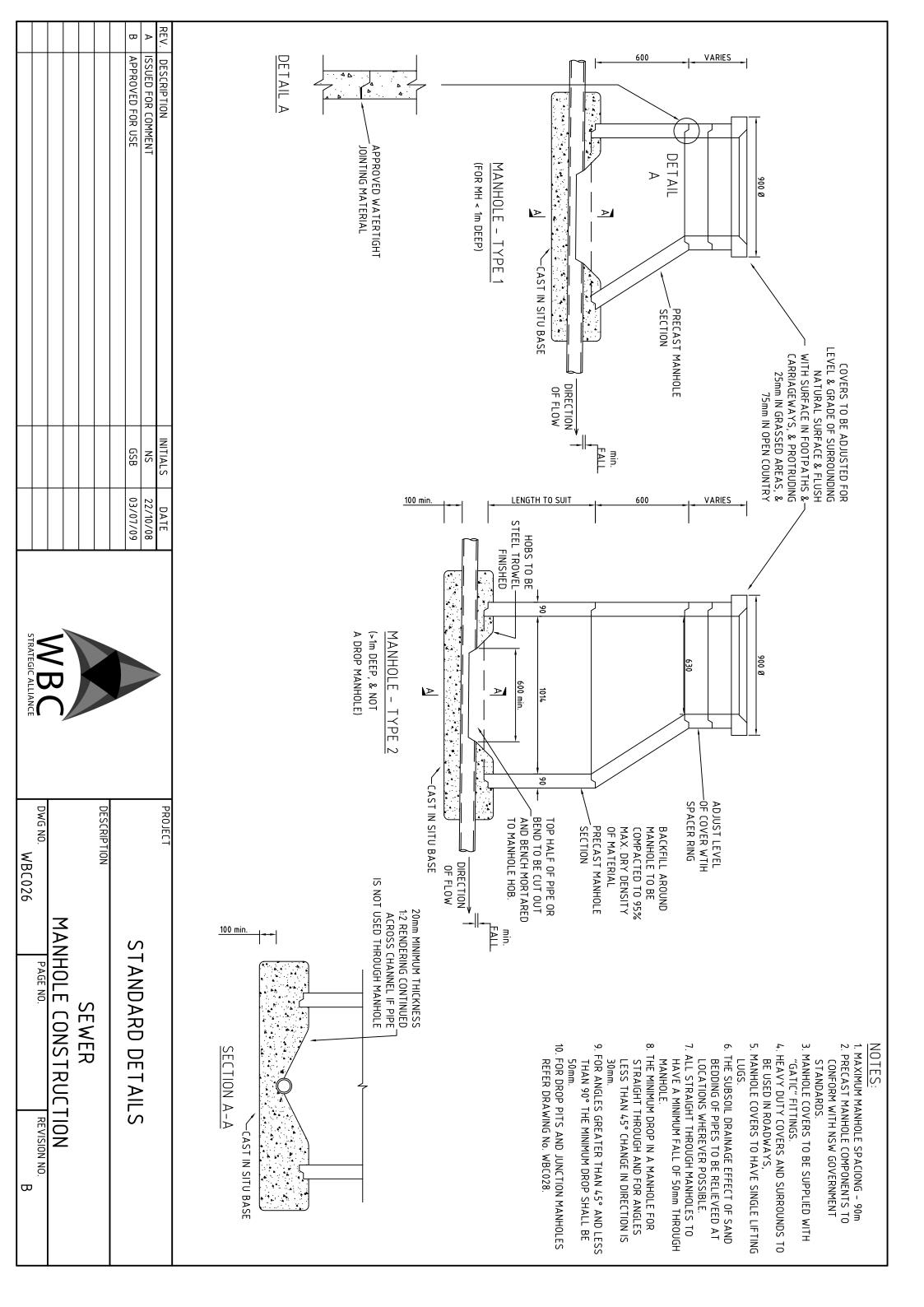
INDICATOR POSTS AND MARKERS WATER R RETICULATION

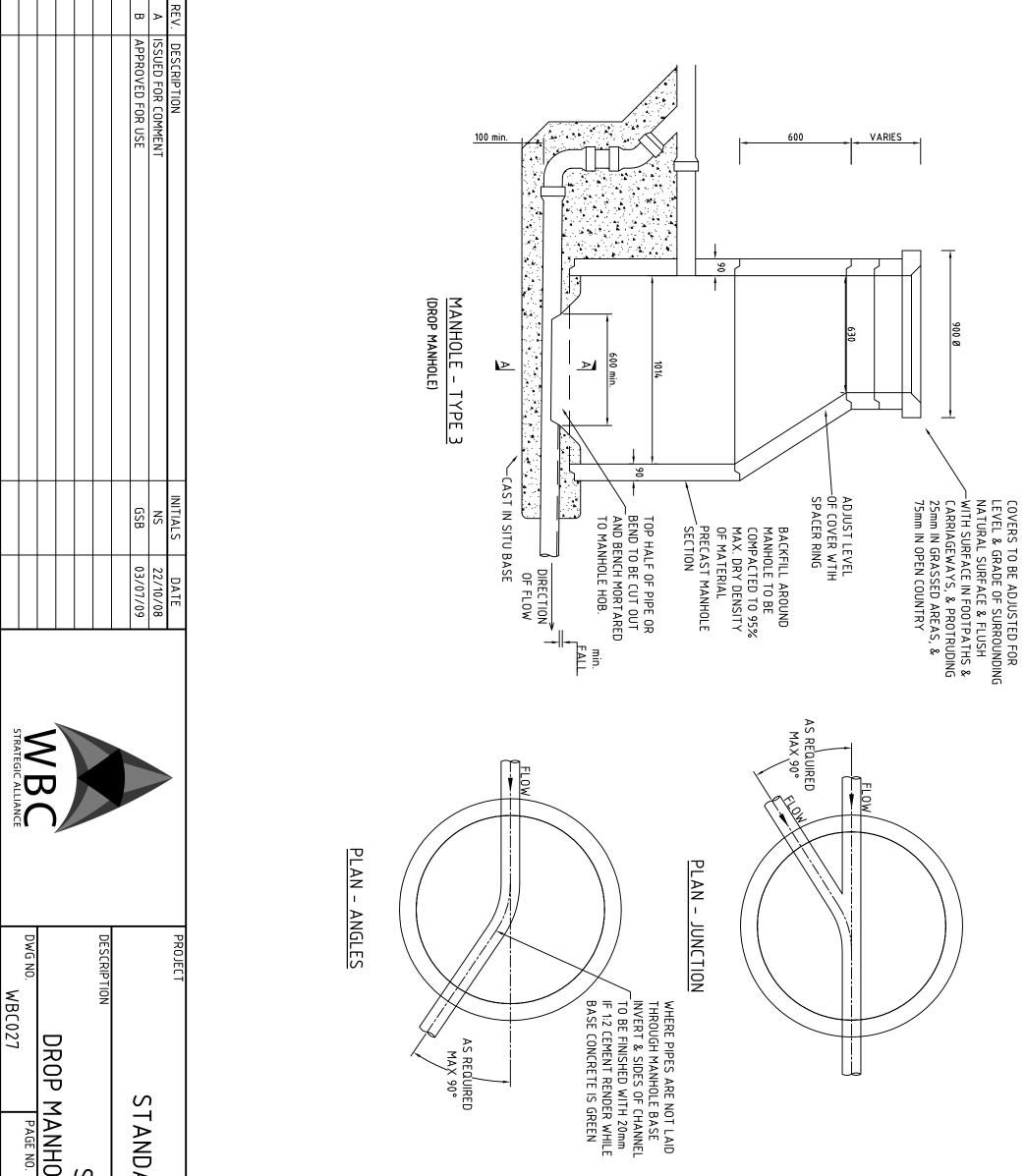
PAGE NO. REVISION NO.

DWG NO.

WBC024







## NOTES:

- 1. MAXIMUM MANHOLE SPACIONG 90m 2. PRECAST MANHOLE COMPONENTS TO CONFORM WITH NSW GOVERNMENT
- 3. MANHOLE COVERS TO BE SUPPLIED WITH
  - STANDARDS
- "GATIC" FITTINGS.
- BE USED IN ROADWAYS,
  5. MANHOLE COVERS TO HAVE SINGLE LIFTING 4. HEAVY DUTY COVERS AND SURROUNDS TO LUGS.
- 6. THE SUBSOIL DRAINAGE EFFECT OF SAND BEDDING OF PIPES TO BE RELIEVEED AT LOCATIONS WHEREVER POSSIBLE.
  7. ALL STRAIGHT THROUGH MANHOLES TO MANHOLE. HAVE A MINIMUM FALL OF 50mm THROUGH

THE MINIMUM DROP IN A MANHOLE FOR

- STRAIGHT THROUGH AND FOR ANGLES LESS THAN 45° CHANGE IN DIRECTION IS
- FOR ANGLES GREATER THAN 45° AND LESS THAN 90° THE MINIMUM DROP SHALL BE
- 10. FOR DROP PITS AND JUNCTION MANHOLES REFER DRAWING No. WBC028.

# DARD DETAILS

**SEWER** 

HOLE CONSTRUCTION

REVISION NO. Œ

