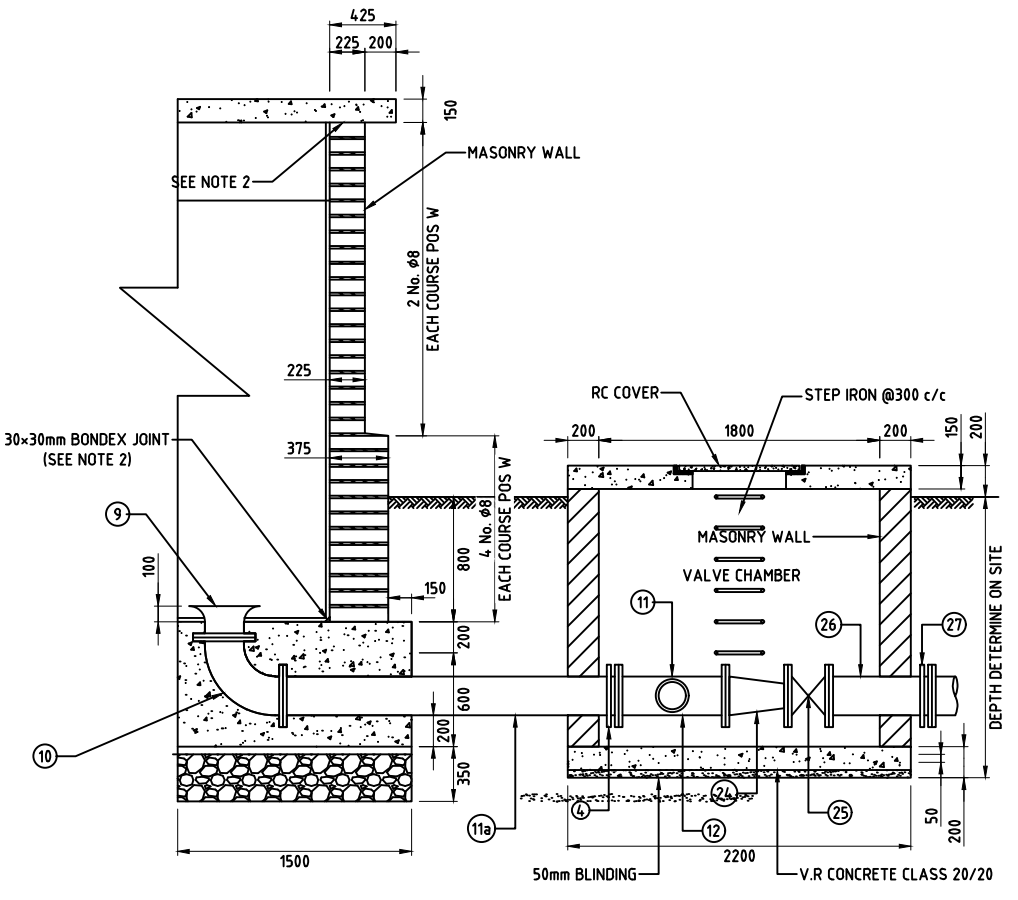
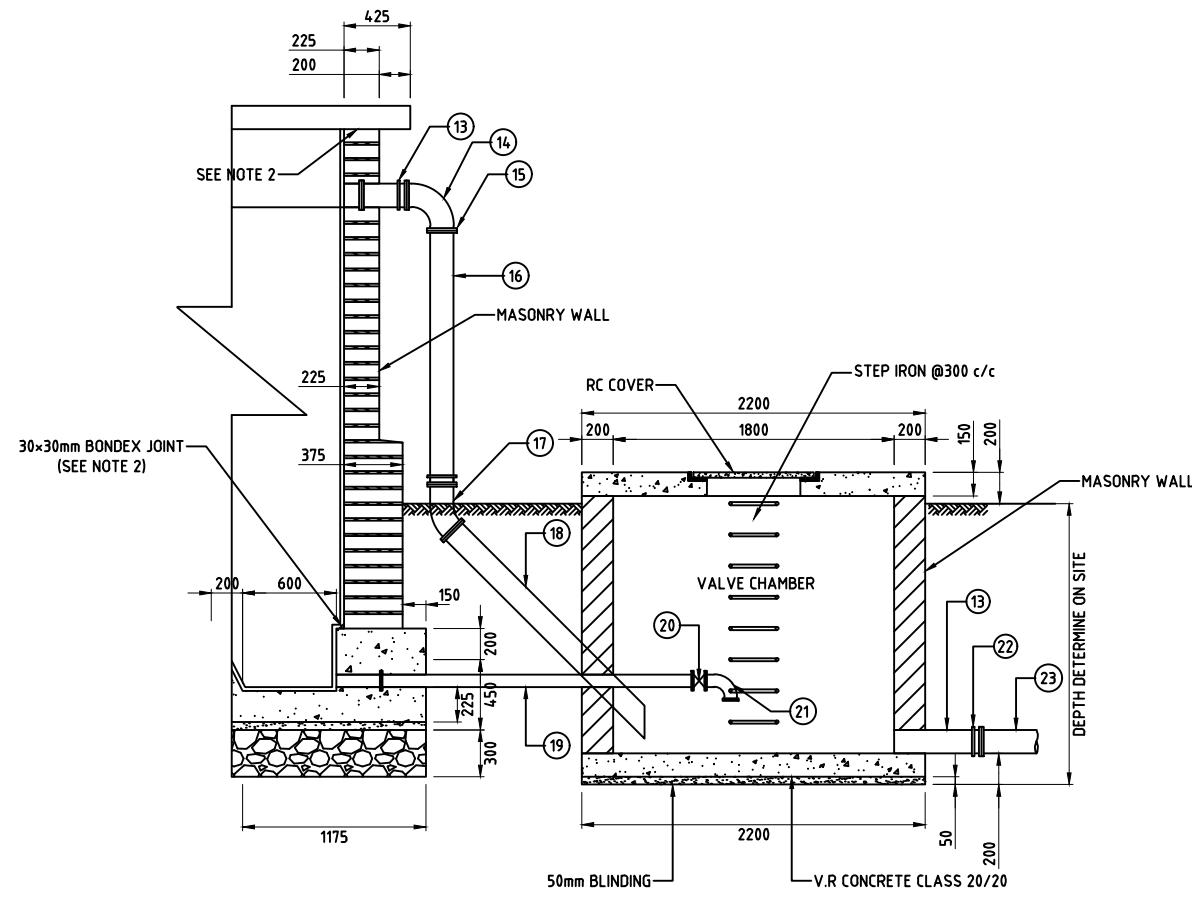


INLET



OUTLET

ITEM	DESCRIPTION	DIAMETER (mm)	LENGTH (mm)	QUANTITY (No.)
<b>I INLET AND OUTLET PIPEWORK FOR KIANGORO TANK</b>				
1	HDPE/GI ADAPTOR (STUB END WITH STEEL FLANGE ADAPTOR)	160/150		2
2	ALL FLANGED STEEL PIPE	150	1000	3
3	ALL FLANGED GATE VALVE	150		2
4	FLANGED ADAPTOR	150		4
5	90° FLANGED BEND	150		2
6	SINGLE FLANGED PIPE	150	3500	1
7	SINGLE FLANGED PIPE WITH CENTRAL PADDLE FLANGE	150	600	1
8	FLANGED BEAT EQUILIBRIUM FLOAT VALVE	150		1
9	FLANGED BELL MOUTH	150		1
10	DOUBLE FLANGED SHORT RADIUS BEND	150		1
11	BLIND FLANGE	80		1
11a	SINGLE FLANGED PIPE WITH PADDLE FLANGE 500mm FROM ONE END	150	3500	1
12	ALL FLANGED TEE	150x80		1
24	DOUBLE FLANGED CONCENTRIC TAPER	150x100		1
25	DOUBLE FLANGED GATE VALVE	100		1
26	SINGLE FLANGED PIPE	100	1000	1
27	HDPE/GI ADAPTOR	110/100		1
<b>II OVERFLOW AND WASHOUT FITTINGS</b>				
13	SINGLE FLANGED PIPE WITH PUDDLE FLANGE	150	400	2
14	90° DOUBLE FLANGED BEND	150		1
15	FLANGED ADAPTOR	150		1
16	SINGLE FLANGED PIPE	150	2500	1
17	45° DOUBLE FLANGED BEND	150		1
18	SINGLE FLANGED PIPE WITH BEVELED END	150	1500	1
19	SINGLE FLANGED PIPE WITH PADDLE FLANGE 450mm FROM PLAIN END	150	2100	1
20	ALL FLANGED GATE VALVE	150		1
21	90° DOUBLE FLANGED BEND	150		1
22	FLANGED ADAPTOR	150x110		1
23	HDPE PIPE	110	6000	4



**NOTES**

- PROGRAMME, METHOD OF CONSTRUCTION AND SETTING OUT OF WORK TO BE APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK
- DESIGN CRITERIA
  - DESIGN CODES B.S. 8007 & B.S. 8110
  - UNIFORM NON-COMPRESSIBLE FOUNDATION WITH MINIMUM BEARING CAPACITY 90KN/m<sup>2</sup>
- CONCRETE
  - CEMENT TO BE CEM 1 - 42.5 TO KES EAS 18-1 AND KS EAS 18-3
  - WATER IN CONCRETE TO B.S. 3148
  - CONCRETE CLASSES TO BE AS FOLLOWS:- MASS CONCRETE FILL AND BLINDING MIX, CLASS 15/20. REINFORCED CONCRETE CLASS 25/20.
  - MINIMUM COVER TO ALL REINFORCEMENT TO BE 40mm UNLESS AS SPECIFIED BELOW

FOR BUILDINGS:-

  - MEMBERS OF BUILDINGS:-
  - SLABS - 20mm
  - BEAMS - 25mm
  - COLUMNS - 40mm
  - FOUNDATIONS AND FOOTINGS - 50mm

IN A FULL HEIGHT POUR AS SOON AS POSSIBLE AFTER THE BASE HAS BEEN CONCRETED (2 TO 3 DAYS)
- REINFORCEMENT
  - REINFORCEMENT TO BE HIGH YIELD SQUARE TWISTED BARS TO B.S. 4461
  - BENDING DIMENSIONS TO B.S. 4466
  - EXAMPLE: 16 T12 - 07-150 SIGNIFIES 16 No. HIGH AT 150mm CENTRE TO CENTRE SPACING
- JOINTS
  - THE POSITION AND NUMBER OF INTERMEDIATE AS SHOWN IN THE DRAWINGS BEFORE PLACING FRESH CONCRETE THE OLD SURFACE SHALL BE ROUGHENED AND ALL LAFTANCE AND LOOSE MATERIAL REMOVED SURFACE DRY CONDITION HAVE 100mm KICKER UNLESS OTHERWISE SPECIFIED
  - THE UPVC WATER STOP SHALL BE 200mm WIDE UNLESS OTHERWISE SPECIFIED
  - JOINT FILLER TO B.S. 5292 AND TO BE APPROVED BY THE ENGINEER
- ABBREVIATIONS
 

T - TOP	B - BOTTOM
N.F. - NEAR FACE	F.F. - FAR FACE
E.F. - EACH FACE	E.W. - EACH WAY

**LEGEND**

BF - BLANK FLANGE  
 PF - PUDDLE FLANGE  
 DN - NOMINAL DIAMETER  
 C/C - CENTRE TO CENTRE  
 PCC - PRECAST CONCRETE  
 RC - REINFORCED CONCRETE  
 MS - MILD STEEL  
 FC - FLEXIBLE COUPLING  
 TWL - TOP WATER LEVEL  
 PCC/STEEL - PRE-CAST CONCRETE/STEEL PIPE COUPLING

**FOR CONSTRUCTION**

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			

CLIENT  
 TANA WATER WORKS DEVELOPMENT AGENCY  
 P. O. BOX 1292-10100 NYERI

PROJECT  
 NGARIAMA NJUKIINI WATER PROJECT

Civil/Structural Engineers  
 TANA WATER WORKS DEVELOPMENT AGENCY  
 P. O. BOX 1292-10100 NYERI

Drawing Title  
 NGARIAMA NJUKIINI WATER PROJECT  
 TANK REHABILITATION  
 TANK DETAIL (SHEET 1 OF 2)

Designed by DWN	Drawn by EWN
Checked by JMM	Approved by
Scale AS SHOWN (A1)	Date MAY, 2022
Job No. 1	ACAD File:

C STATUS DRAWING No. TWDA/NNWP/TR-001