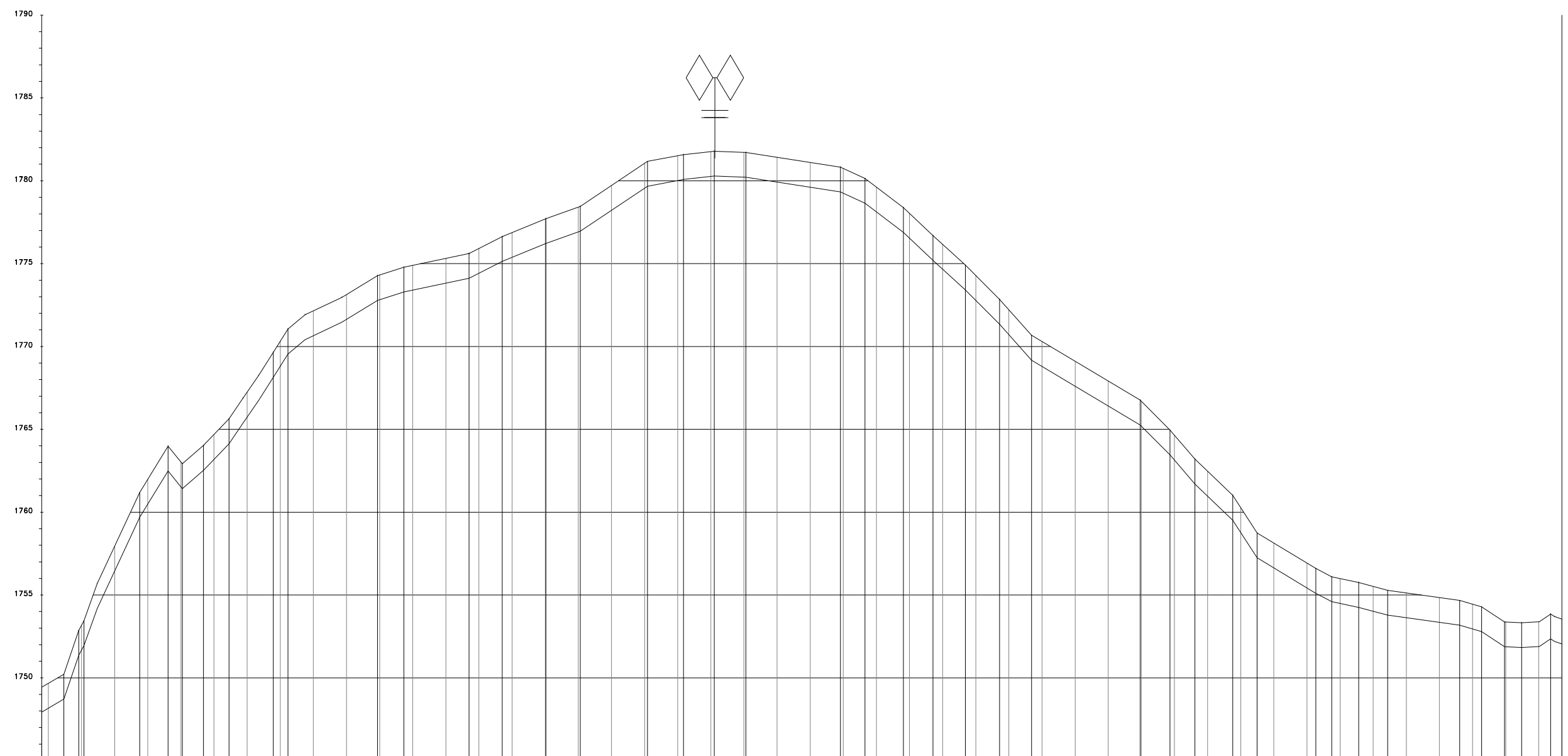


- NOTES**
1. ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
 2. COORDINATES ARE BASED ON UTM.
 3. LOCATION OF AIR VALVES, WASHOUTS, BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
 4. GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE BY THE ENGINEER.
 5. PIPES ARE TO BE LAID TO EVEN GRADIENTS WITH A MINIMUM COVER OF 1.0M WHERE COVER IS LESS THAN THIS, PIPE TO BE SURROUNDED WITH CONCRETE.
 6. ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
 7. IN WATER LOGGED AREAS, PIPES TO BE BEDDED WITH SINGLE SIZED OR GRADED AGGREGATES AS PER CLAUSE 430.1 AND 216 OF TECHNICAL SPECIFICATIONS AND/OR ANCHOR BLOCKS AS MAY BE DIRECTED ON SITE BY THE ENGINEER.

- LEGEND:**
- PROPOSED PIPELINE
 - EXISTING GROUND PROFILE
 - PIPE INVERT PROFILE
 - EXISTING ROAD
 - ◇ — AIR VALVE
 - DAV — DOUBLE AIR VALVE
 - ▽ — WASHOUT
 - WO1 — WASHOUT TYPE 1
 - WO2 — WASHOUT TYPE 2
 - DN — NOMINAL DIAMETER
 - PN — NOMINAL PRESSURE
 - VB — VERTICAL BEND
 - HB — HORIZONTAL BEND
 - ▨ — EXISTING STRUCTURE
 - ER — EARTH ROAD
 - GR — GRAVEL ROAD
 - CUT — CUT

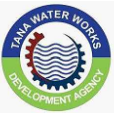
RAW WATER MAIN



FOR CONSTRUCTION

REV	REVISIONS	SIGN	DATE	APPROVED
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GO	BY			
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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
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Drawing Title

NGARIAMA NJUKIINI WATER PROJECT
RAW WATER GRAVITY MAIN
PLAN AND PROFILE (SHEET 3 OF 7)

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

CHAINAGE (m)	EXISTING GROUND LEVEL (m)	INVERT LEVELS (m)	H.G.L. (m)	DATUM (m)	TYPE OF PIPE AND SIZE	REMARKS	PIPE FLOW DATA
1802.71	1753.17	1749.77	1754.00		PN 10 280MM HDPE PIPE		
1802.69	1751.88	1755.2	1+960.0		PN 10 280MM HDPE PIPE		
1802.67	1756.45	1756.0	1+980.0		PN 10 280MM HDPE PIPE		
1802.65	1760.48	1762.0	1+900.0		PN 10 280MM HDPE PIPE		
1802.63	1761.33	1763.0	1+920.0		PN 10 280MM HDPE PIPE		
1802.61	1763.19	1764.7	1+940.0		PN 10 280MM HDPE PIPE		
1802.59	1765.75	1767.2	1+960.0		PN 10 280MM HDPE PIPE		
1802.56	1768.32	1770.3	1+980.0		PN 10 280MM HDPE PIPE		
	1770.65	1772.1	2+000.0		PN 10 280MM HDPE PIPE		
	1771.63	1773.1	2+020.0		PN 10 280MM HDPE PIPE		
	1772.92	1774.3	2+040.0		PN 10 280MM HDPE PIPE		
	1773.40	1774.9	2+060.0		PN 10 280MM HDPE PIPE		
	1773.62	1775.3	2+080.0		PN 10 280MM HDPE PIPE		
	1774.42	1775.9	2+100.0		PN 10 280MM HDPE PIPE		
	1775.38	1776.9	2+120.0		PN 10 280MM HDPE PIPE		
	1776.20	1777.7	2+140.0		PN 10 280MM HDPE PIPE		
	1776.91	1778.4	2+160.0		PN 10 280MM HDPE PIPE		
	1778.21	1779.7	2+180.0		PN 10 280MM HDPE PIPE		
	1779.55	1781.1	2+200.0		PN 10 280MM HDPE PIPE		
	1780.01	1781.5	2+220.0		PN 10 280MM HDPE PIPE		
	1780.26	1781.8	2+240.0		PN 10 280MM HDPE PIPE		
	1780.22	1781.7	2+260.0		PN 10 280MM HDPE PIPE		
	1779.92	1781.4	2+280.0		PN 10 280MM HDPE PIPE		
	1779.61	1781.1	2+300.0		PN 10 280MM HDPE PIPE		
	1779.24	1780.7	2+320.0		PN 10 280MM HDPE PIPE		
	1778.12	1779.6	2+340.0		PN 10 280MM HDPE PIPE		
	1776.53	1778.0	2+360.0		PN 10 280MM HDPE PIPE		
	1774.66	1776.2	2+380.0		PN 10 280MM HDPE PIPE		
	1772.78	1774.3	2+400.0		PN 10 280MM HDPE PIPE		
	1770.71	1772.2	2+420.0		PN 10 280MM HDPE PIPE		
	1768.80	1770.3	2+440.0		PN 10 280MM HDPE PIPE		
	1767.60	1769.1	2+460.0		PN 10 280MM HDPE PIPE		
	1766.41	1767.9	2+480.0		PN 10 280MM HDPE PIPE		
	1765.19	1766.7	2+500.0		PN 10 280MM HDPE PIPE		
	1763.14	1764.6	2+520.0		PN 10 280MM HDPE PIPE		
	1760.97	1762.5	2+540.0		PN 10 280MM HDPE PIPE		
	1758.78	1760.3	2+560.0		PN 10 280MM HDPE PIPE		
	1756.64	1758.1	2+580.0		PN 10 280MM HDPE PIPE		
	1755.42	1756.9	2+600.0		PN 10 280MM HDPE PIPE		
	1754.48	1756.0	2+620.0		PN 10 280MM HDPE PIPE		
	1754.02	1755.5	2+640.0		PN 10 280MM HDPE PIPE		
	1753.63	1755.1	2+660.0		PN 10 280MM HDPE PIPE		
	1753.35	1754.8	2+680.0		PN 10 280MM HDPE PIPE		
	1752.95	1754.4	2+700.0		PN 10 280MM HDPE PIPE		
	1751.98	1753.4	2+720.0		PN 10 280MM HDPE PIPE		
	1751.89	1753.4	2+740.0		PN 10 280MM HDPE PIPE		

S.V 0.04681M3/S