

**NOTES**

- ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
- COORDINATES ARE BASED ON UTM.
- LOCATION OF AIR VALVES, WASHOUTS, BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
- GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE BY THE ENGINEER.
- 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.
- ALL BENDS ARE HORIZONTAL UNLESS OTHERWISE STATED.
- 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
- 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

FOR CONSTRUCTION  
signed CMTS

REV	REVISIONS	SIGN	DATE	APPROVED
	BY			
	CHECKED			
	BY			
	CHECKED			
	BY			
	CHECKED			
CO	ISSUED FOR CONSTRUCTION BY			
	CHECKED			

CLIENT

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

PROJECT

AUGMENTATION OF TIGITHI-HUMUKA  
WATER PROJECT

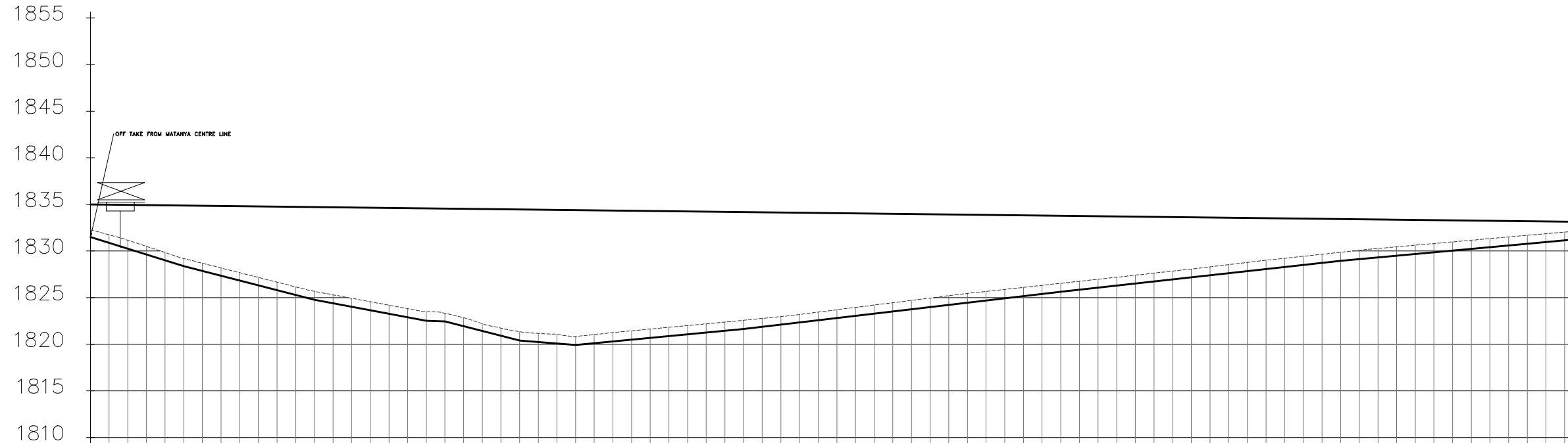
Civil/Structural Engineers

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

Drawing Title

MATANYA CENTRE SUPPLY  
LINE  
PLAN AND PROFILE (SHEET 1 OF 1)

Designed by KNG	Drawn by MK
Checked by JMM	Approved by
Scale AS SHOWN (A1)	Date SEPTEMBER 2023
Job No. 1	ACAD File:
PD STATUS	DRAWING NoTWJDA/THWP/MCSL/01
	CO REV



DISTANCE DATUM (m)	GROUND LEVELS (m)	INVERT LEVELS(m)	DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	HGL(m)	TYPE OF PIPE AND SIZE
0+000.00	1832.28	1831.49	0.79	1835.00	PN10 40MM HDPE PIPE
0+020.00	1831.74	1830.87	0.87	1834.98	
0+040.00	1830.50	1830.25	0.88	1834.95	
0+060.00	1829.84	1829.62	0.88	1834.93	
0+080.00	1829.20	1829.00	0.84	1834.91	
0+100.00	1828.69	1828.38	0.83	1834.88	
0+120.00	1828.18	1827.86	0.83	1834.86	
0+140.00	1827.67	1827.35	0.83	1834.84	
0+160.00	1827.17	1826.83	0.84	1834.81	
0+180.00	1826.66	1826.31	0.86	1834.79	
0+200.00	1826.16	1825.80	0.87	1834.77	
0+220.00	1825.68	1825.28	0.88	1834.74	
0+240.00	1825.31	1824.91	0.91	1834.72	
0+260.00	1824.56	1824.39	0.92	1834.70	
0+280.00	1824.19	1824.01	0.92	1834.67	
0+300.00	1823.50	1823.64	0.93	1834.65	
0+320.00	1823.33	1823.27	0.93	1834.63	
0+340.00	1823.82	1822.89	0.93	1834.60	
0+360.00	1823.50	1822.52	0.98	1834.58	
0+380.00	1823.33	1822.44	0.89	1834.56	
0+400.00	1822.84	1821.93	0.91	1834.53	
0+420.00	1822.21	1821.42	0.80	1834.51	
0+440.00	1821.73	1820.91	0.82	1834.49	
0+460.00	1821.35	1820.39	0.96	1834.46	
0+480.00	1821.16	1820.23	0.93	1834.44	
0+500.00	1821.06	1820.08	0.98	1834.42	
0+520.00	1821.05	1819.92	0.92	1834.39	
0+540.00	1821.25	1820.30	0.95	1834.37	
0+560.00	1821.44	1820.68	0.95	1834.35	
0+580.00	1821.63	1821.06	0.95	1834.32	
0+600.00	1821.82	1821.44	0.95	1834.30	
0+620.00	1821.82	1821.82	0.95	1834.28	
0+640.00	1822.01	1822.01	0.95	1834.25	
0+660.00	1822.19	1822.19	0.95	1834.23	
0+680.00	1822.38	1822.38	0.94	1834.21	
0+700.00	1822.58	1822.58	0.95	1834.18	
0+720.00	1822.77	1822.77	0.91	1834.16	
0+740.00	1822.97	1822.97	0.87	1834.14	
0+760.00	1823.20	1823.20	0.87	1834.11	
0+780.00	1823.45	1823.45	0.88	1834.09	
0+800.00	1823.70	1823.70	0.90	1834.07	
0+820.00	1823.96	1823.96	0.91	1834.04	
0+840.00	1824.21	1824.21	0.93	1834.02	
0+860.00	1824.46	1824.46	0.95	1834.00	
0+880.00	1824.71	1824.71	0.96	1833.97	
0+900.00	1824.96	1824.96	0.97	1833.95	
0+920.00	1825.21	1825.21	0.99	1833.93	
0+940.00	1825.45	1825.45	1.00	1833.90	
0+960.00	1825.67	1825.67	0.98	1833.88	
0+980.00	1825.89	1825.89	0.96	1833.86	
1+000.00	1826.10	1826.10	0.94	1833.83	
1+020.00	1826.32	1826.32	0.93	1833.81	
1+040.00	1826.54	1826.54	0.91	1833.79	
1+060.00	1826.76	1826.76	0.90	1833.76	
1+080.00	1826.97	1826.97	0.90	1833.74	
1+100.00	1827.19	1827.19	0.90	1833.72	
1+120.00	1827.41	1827.41	0.90	1833.69	
1+140.00	1827.63	1827.63	0.89	1833.67	
1+160.00	1827.85	1827.85	0.89	1833.65	
1+180.00	1828.07	1828.07	0.89	1833.62	
1+200.00	1828.30	1828.30	0.90	1833.60	
1+220.00	1828.54	1828.54	0.92	1833.58	
1+240.00	1828.78	1828.78	0.94	1833.55	
1+260.00	1829.01	1829.01	0.95	1833.53	
1+280.00	1829.22	1829.22	0.94	1833.51	
1+300.00	1829.44	1829.44	0.93	1833.48	
1+320.00	1829.65	1829.65	0.93	1833.46	
1+340.00	1829.87	1829.87	0.92	1833.44	
1+360.00	1830.08	1830.08	0.95	1833.41	
1+380.00	1830.28	1830.28	0.96	1833.39	
1+400.00	1830.45	1830.45	0.95	1833.37	
1+420.00	1830.63	1830.63	0.94	1833.35	
1+440.00	1830.80	1830.80	0.94	1833.32	
1+460.00	1831.05	1831.05	0.93	1833.30	
1+480.00	1831.34	1831.34	0.92	1833.28	
1+500.00	1831.51	1831.51	0.90	1833.25	
1+520.00	1831.68	1831.68	0.90	1833.23	
1+540.00	1831.86	1831.86	0.90	1833.21	
1+560.00	1832.07	1832.07	0.89	1833.18	
1+584.00	1832.07	1832.07	0.89	1833.15	

Matanya Centre Supply Line  
SCALE: HOR 1:2000 VERT 1:1000