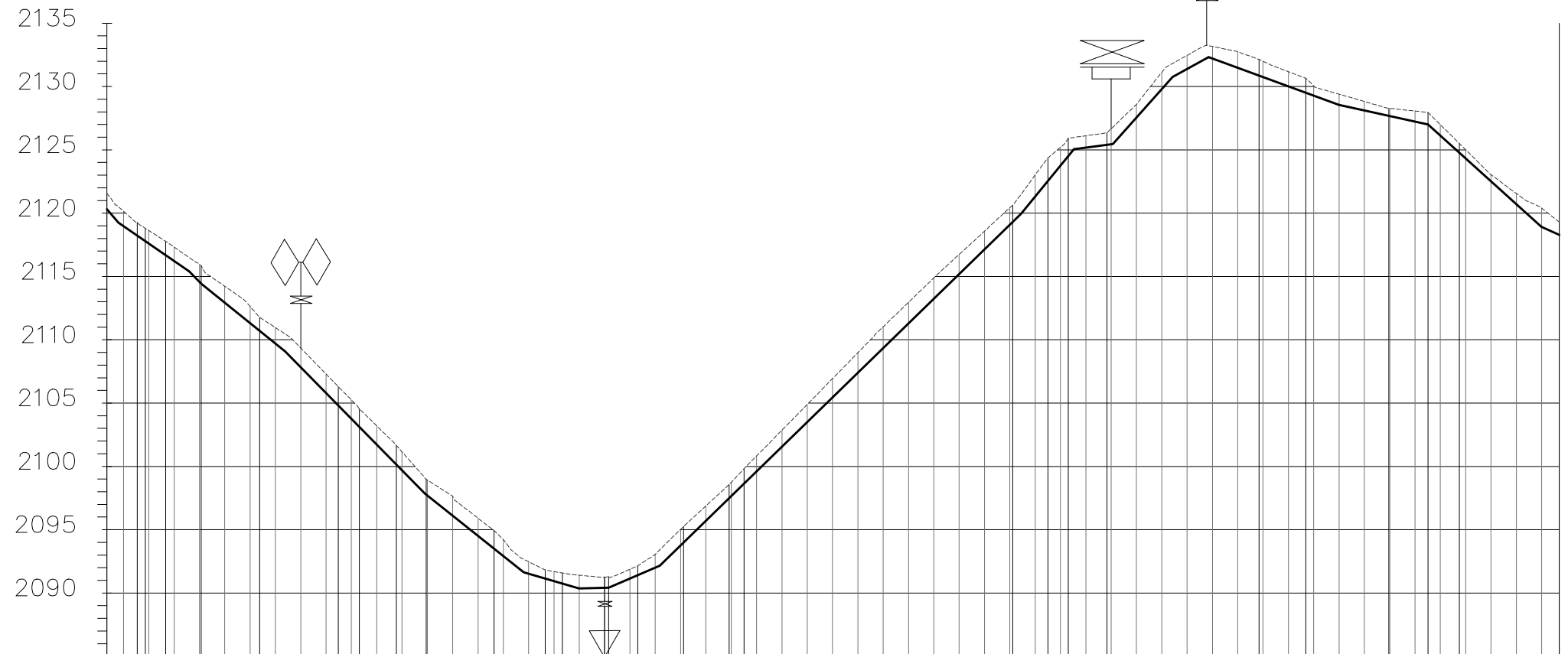


- NOTES**
1. ALL LEVELS ARE IN METERS ABOVE SEA LEVEL.
 2. COORDINATES ARE BASED ON UTM.
 3. LOCATION OF AIR VALVES, WASHOUTS, BENDS AND OTHER FITTINGS AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
 4. GROUND AND INVERT LEVEL SHOWN ARE AS SHOWN ON DRAWING UNLESS OTHERWISE INDICATED ON SITE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



DISTANCE DATUM (m)	GROUND LEVELS (m)	INVERT LEVELS(m)	HGL(m)	FLOW DATA	TYPE OF PIPE AND SIZE
2185.42	2118.98	2120.15	2116.00	0.04M3/S	A.V
2185.56	2117.60	2118.63	2115.18		
2185.72	2117.32	2117.32	2114.23	0.04M3/S	W.O
2185.88	2115.96	2115.96	2112.40		
2186.04	2114.60	2114.60	2110.57	0.04M3/S	PN10 DN 225MM PIPE
2186.20	2113.24	2113.24	2108.74		
2186.36	2111.88	2111.88	2106.91	0.04M3/S	S.V
2186.52	2110.52	2110.52	2105.08		
2186.68	2109.16	2109.16	2103.25	0.04M3/S	A.V
2186.84	2107.80	2107.80	2101.42		
2187.00	2106.44	2106.44	2099.59	0.04M3/S	PN10 DN 225MM PIPE
2187.16	2105.08	2105.08	2097.76		
2187.32	2103.72	2103.72	2095.93	0.04M3/S	A.V
2187.48	2102.36	2102.36	2094.10		
2187.64	2101.00	2101.00	2092.27	0.04M3/S	PN10 DN 225MM PIPE
2187.80	2099.64	2099.64	2090.44		
2187.96	2098.28	2098.28	2088.61	0.04M3/S	A.V
2188.12	2096.92	2096.92	2086.78		
2188.28	2095.56	2095.56	2084.95	0.04M3/S	PN10 DN 225MM PIPE
2188.44	2094.20	2094.20	2083.12		
2188.60	2092.84	2092.84	2081.29	0.04M3/S	A.V
2188.76	2091.48	2091.48	2079.46		
2188.92	2090.12	2090.12	2077.63	0.04M3/S	PN10 DN 225MM PIPE
2189.08	2088.76	2088.76	2075.80		
2189.24	2087.40	2087.40	2073.97	0.04M3/S	A.V
2189.40	2086.04	2086.04	2072.14		
2189.56	2084.68	2084.68	2070.31	0.04M3/S	PN10 DN 225MM PIPE
2189.72	2083.32	2083.32	2068.48		
2189.88	2081.96	2081.96	2066.65	0.04M3/S	A.V
2190.04	2080.60	2080.60	2064.82		
2190.20	2079.24	2079.24	2062.99	0.04M3/S	PN10 DN 225MM PIPE
2190.36	2077.88	2077.88	2061.16		
2190.52	2076.52	2076.52	2059.33	0.04M3/S	A.V
2190.68	2075.16	2075.16	2057.50		
2190.84	2073.80	2073.80	2055.67	0.04M3/S	PN10 DN 225MM PIPE
2191.00	2072.44	2072.44	2053.84		
2191.16	2071.08	2071.08	2052.01	0.04M3/S	A.V
2191.32	2069.72	2069.72	2050.18		
2191.48	2068.36	2068.36	2048.35	0.04M3/S	PN10 DN 225MM PIPE
2191.64	2067.00	2067.00	2046.52		
2191.80	2065.64	2065.64	2044.69	0.04M3/S	A.V
2191.96	2064.28	2064.28	2042.86		
2192.12	2062.92	2062.92	2041.03	0.04M3/S	PN10 DN 225MM PIPE
2192.28	2061.56	2061.56	2039.20		
2192.44	2060.20	2060.20	2037.37	0.04M3/S	A.V
2192.60	2058.84	2058.84	2035.54		
2192.76	2057.48	2057.48	2033.71	0.04M3/S	PN10 DN 225MM PIPE
2192.92	2056.12	2056.12	2031.88		
2193.08	2054.76	2054.76	2030.05	0.04M3/S	A.V
2193.24	2053.40	2053.40	2028.22		
2193.40	2052.04	2052.04	2026.39	0.04M3/S	PN10 DN 225MM PIPE
2193.56	2050.68	2050.68	2024.56		
2193.72	2049.32	2049.32	2022.73	0.04M3/S	A.V
2193.88	2047.96	2047.96	2020.90		
2194.04	2046.60	2046.60	2019.07	0.04M3/S	PN10 DN 225MM PIPE
2194.20	2045.24	2045.24	2017.24		
2194.36	2043.88	2043.88	2015.41	0.04M3/S	A.V
2194.52	2042.52	2042.52	2013.58		
2194.68	2041.16	2041.16	2011.75	0.04M3/S	PN10 DN 225MM PIPE
2194.84	2039.80	2039.80	2009.92		
2195.00	2038.44	2038.44	2008.09	0.04M3/S	A.V
2195.16	2037.08	2037.08	2006.26		
2195.32	2035.72	2035.72	2004.43	0.04M3/S	PN10 DN 225MM PIPE
2195.48	2034.36	2034.36	2002.60		
2195.64	2033.00	2033.00	2000.77	0.04M3/S	A.V
2195.80	2031.64	2031.64	1998.94		
2195.96	2030.28	2030.28	1997.11	0.04M3/S	PN10 DN 225MM PIPE
2196.12	2028.92	2028.92	1995.28		
2196.28	2027.56	2027.56	1993.45	0.04M3/S	A.V
2196.44	2026.20	2026.20	1991.62		
2196.60	2024.84	2024.84	1989.79	0.04M3/S	PN10 DN 225MM PIPE
2196.76	2023.48	2023.48	1987.96		
2196.92	2022.12	2022.12	1986.13	0.04M3/S	A.V
2197.08	2020.76	2020.76	1984.30		
2197.24	2019.40	2019.40	1982.47	0.04M3/S	PN10 DN 225MM PIPE
2197.40	2018.04	2018.04	1980.64		
2197.56	2016.68	2016.68	1978.81	0.04M3/S	A.V
2197.72	2015.32	2015.32	1976.98		
2197.88	2013.96	2013.96	1975.15	0.04M3/S	PN10 DN 225MM PIPE
2198.04	2012.60	2012.60	1973.32		
2198.20	2011.24	2011.24	1971.49	0.04M3/S	A.V
2198.36	2009.88	2009.88	1969.66		
2198.52	2008.52	2008.52	1967.83	0.04M3/S	PN10 DN 225MM PIPE
2198.68	2007.16	2007.16	1966.00		
2198.84	2005.80	2005.80	1964.17	0.04M3/S	A.V
2199.00	2004.44	2004.44	1962.34		
2199.16	2003.08	2003.08	1960.51	0.04M3/S	PN10 DN 225MM PIPE
2199.32	2001.72	2001.72	1958.68		
2199.48	2000.36	2000.36	1956.85	0.04M3/S	A.V
2199.64	1999.00	1999.00	1955.02		
2199.80	1997.64	1997.64	1953.19	0.04M3/S	PN10 DN 225MM PIPE
2200.00	1996.28	1996.28	1951.36		

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
DESIGN FOR KAHARO WATER PROJECT

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

Drawing Title
KAHARO WATER PROJECT
 TREATED WATER GRAVITY MAIN
 PLAN AND PROFILE (SHEET 2 OF 4)

Designed by DWN	Drawn by EWN
Checked by JMM	Approved by
Scale AS SHOWN (A1)	Date SEPT 2022
Job No. 1	ACAD File:
PD STATUS	DRAWING No. TWWDA/KWP/TGM-02

TWGM
SCALE: HOR 1:2000 VERT 1:1000