



DISTANCE DATUM (m)	GROUND LEVELS (m)	INVERT LEVELS(m)	DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	HGL(m)	FLOW DATA	TYPE AND SIZE OF PIPE	FITTINGS AND OTHER STRUCTURES
0+000.00	1663.33	1662.13	1.20	1663.63	0.0463 M3/S	PN12.5 DN 315MM HDPE PIPE	Epoxy steel-cement lined pipe DN 300 Mm(12m long)
0+020.00	1663.41	1662.21	1.20	1663.59			
0+040.00	1663.19	1661.99	1.20	1663.55			
0+060.00	1662.73	1661.53	1.20	1663.51			
0+080.00	1659.36	1658.16	1.20	1663.47			
0+100.00	1658.22	1657.02	1.20	1663.43			
0+120.00	1657.70	1656.50	1.20	1663.38			
0+140.00	1657.04	1655.84	1.20	1663.34			
0+160.00	1656.69	1655.49	1.20	1663.30			
0+180.00	1656.43	1655.23	1.20	1663.26			
0+200.00	1656.32	1655.12	1.20	1663.22			
0+220.00	1656.14	1654.94	1.20	1663.18			
0+240.00	1655.73	1654.53	1.20	1663.14			
0+260.00	1655.28	1654.08	1.20	1663.10			
0+280.00	1654.83	1653.63	1.20	1663.06			
0+300.00	1654.47	1653.27	1.20	1663.01			
0+320.00	1654.79	1653.59	1.20	1662.97			
0+340.00	1655.25	1654.05	1.20	1662.93			
0+360.00	1654.35	1653.15	1.20	1662.89			
0+380.00	1653.79	1652.59	1.20	1662.85			
0+400.00	1653.07	1651.87	1.20	1662.81			
0+420.00	1652.68	1651.48	1.20	1662.77			
0+440.00	1652.26	1651.05	1.21	1662.73			
0+460.00	1651.56	1650.36	1.20	1662.68			
0+480.00	1649.43	1648.23	1.20	1662.64			
0+500.00	1648.70	1647.50	1.20	1662.60			
0+520.00	1648.73	1647.53	1.20	1662.56			
0+540.00	1649.82	1648.62	1.20	1662.52			
0+560.00	1650.74	1649.54	1.20	1662.48			
0+580.00	1651.14	1649.94	1.20	1662.44			
0+600.00	1647.81	1646.62	1.20	1662.40			
0+620.00	1648.72	1647.52	1.20	1662.36			
0+640.00	1650.45	1649.25	1.20	1662.31			
0+660.00	1651.16	1649.96	1.20	1662.27			
0+680.00	1650.52	1649.32	1.21	1662.23			
0+700.00	1647.64	1646.44	1.20	1662.19			
0+720.00	1645.47	1644.27	1.20	1662.15			
0+740.00	1644.57	1643.37	1.20	1662.11			
0+760.00	1644.02	1642.82	1.19	1662.07			
0+780.00	1643.48	1642.28	1.20	1662.03			
0+800.00	1643.69	1642.49	1.20	1661.99			
0+820.00	1646.65	1645.42	1.22	1661.95			
0+840.00	1646.99	1645.79	1.20	1661.91			
0+860.00	1644.51	1643.31	1.20	1661.87			
0+880.00	1641.73	1640.55	1.18	1661.83			
0+900.00	1640.08	1638.88	1.20	1661.79			
0+920.00	1639.10	1637.90	1.20	1661.75			
0+940.00	1638.95	1637.75	1.20	1661.71			
0+960.00	1638.67	1637.46	1.20	1661.67			
0+980.00	1637.96	1636.76	1.20	1661.63			
1+000.00	1636.09	1634.89	1.20	1661.59			
1+020.00	1635.47	1634.26	1.21	1661.55			
1+040.00	1635.07	1633.87	1.20	1661.51			
1+060.00	1635.07	1633.87	1.20	1661.47			
1+080.00	1634.64	1633.44	1.20	1661.43			
1+100.00	1634.34	1633.13	1.21	1661.39			
1+120.00	1633.36	1632.16	1.20	1661.35			
1+140.00	1633.42	1632.22	1.20	1661.31			
1+160.00	1633.42	1632.22	1.20	1661.27			
1+180.00	1633.40	1632.20	1.20	1661.23			
1+200.00	1633.42	1632.22	1.20	1661.19			
1+220.00	1633.44	1632.24	1.23	1661.15			
1+240.00	1633.27	1632.04	1.23	1661.11			
1+260.00	1631.96	1630.76	1.20	1661.07			
1+280.00	1631.51	1630.31	1.20	1661.03			
1+300.00	1631.51	1630.31	1.20	1660.99			
1+320.00	1631.24	1630.04	1.20	1660.95			
1+340.00	1631.64	1631.64	1.18	1660.91			
1+360.00	1632.20	1632.20	1.360.00	1660.87			
1+380.00	1630.86	1629.65	1.20	1660.83			
1+400.00	1630.59	1629.39	1.20	1660.79			
1+420.00	1630.32	1629.12	1.20	1660.75			
1+440.00	1630.17	1628.99	1.19	1660.71			
1+460.00	1629.09	1627.89	1.20	1660.67			
1+480.00	1626.35	1625.15	1.20	1660.63			
1+500.00	1624.57	1623.40	1.17	1660.59			
1+520.00	1623.85	1622.65	1.20	1660.55			
1+540.00	1623.60	1622.40	1.20	1660.51			
1+560.00	1623.25	1622.05	1.20	1660.46			
1+580.00	1623.03	1621.83	1.20	1660.42			
1+600.00	1622.42	1621.22	1.20	1660.38			
1+620.00	1621.53	1620.33	1.20	1660.34			
1+640.00	1621.53	1620.33	1.20	1660.30			
1+660.00	1620.64	1619.44	1.20	1660.25			
1+680.00	1620.83	1619.63	1.20	1660.21			
1+700.00	1621.09	1619.89	1.20	1660.17			
1+720.00	1623.31	1622.11	1.20	1660.13			
1+740.00	1623.02	1621.82	1.20	1660.09			
1+760.00	1621.91	1620.72	1.20	1660.05			
1+780.00	1621.23	1620.03	1.20	1660.01			
1+800.00	1620.54	1619.34	1.20	1659.97			

Main line Alignment
SCALE: HOR 1:2000 VERT 1:1000

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
- 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
- TANK
- INTAKE

FOR CONSTRUCTION
signed CMTS

REV	REVISIONS	SIGN	DATE	APPROVED
REV-1	CHECKED			
REV-2	CHECKED			
REV-3	CHECKED			
REV-4	CHECKED			

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

PROJECT
DESIGN FOR KARIRU, WATER SUPPLY PROJECT

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

Drawing Title
**TRANSMISSION MAIN LINE EXTENSION
 PLAN AND LONGITUDINAL PROFILE**
 SHEET 1 OF 1

Designed by KNG	Drawn by FGG
Checked by JMM	Approved by DNM
Scale	Date FEB2024
Job No. 1.0	ACAD File: ACADFILENAME
DRAWING No. 1-KWSP-TMLE\01	