



0 1000 2000

W.O. WASH OUT

S.A.V. SINGLE AIR VALVE

D.A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified
- All dimensions to be read off and not scaled
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work
- All water pipes are HDPE and Steel pipes
- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

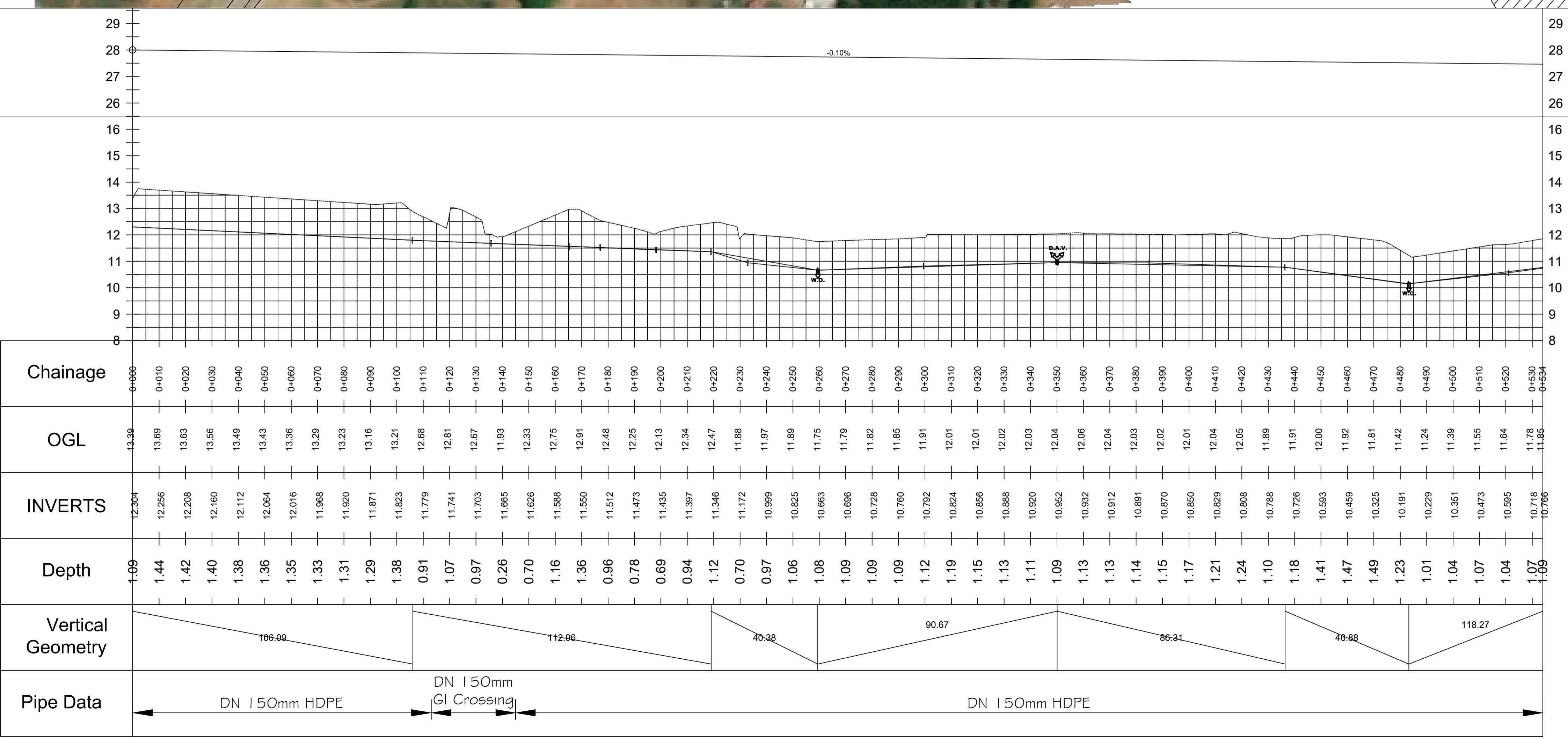
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

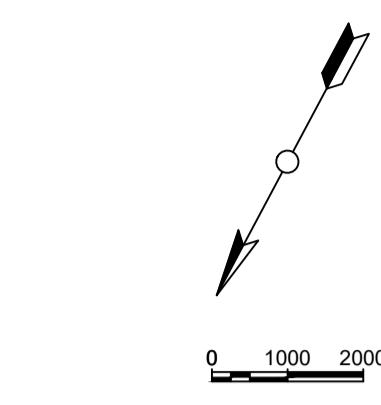
ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-01 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:





W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

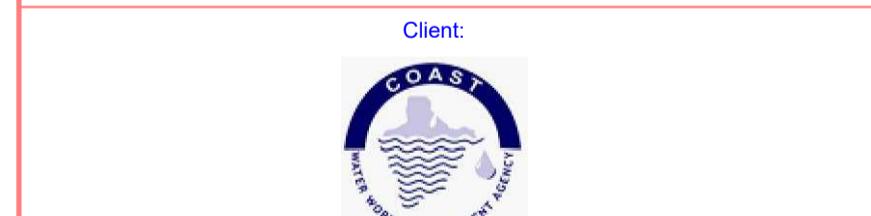
GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

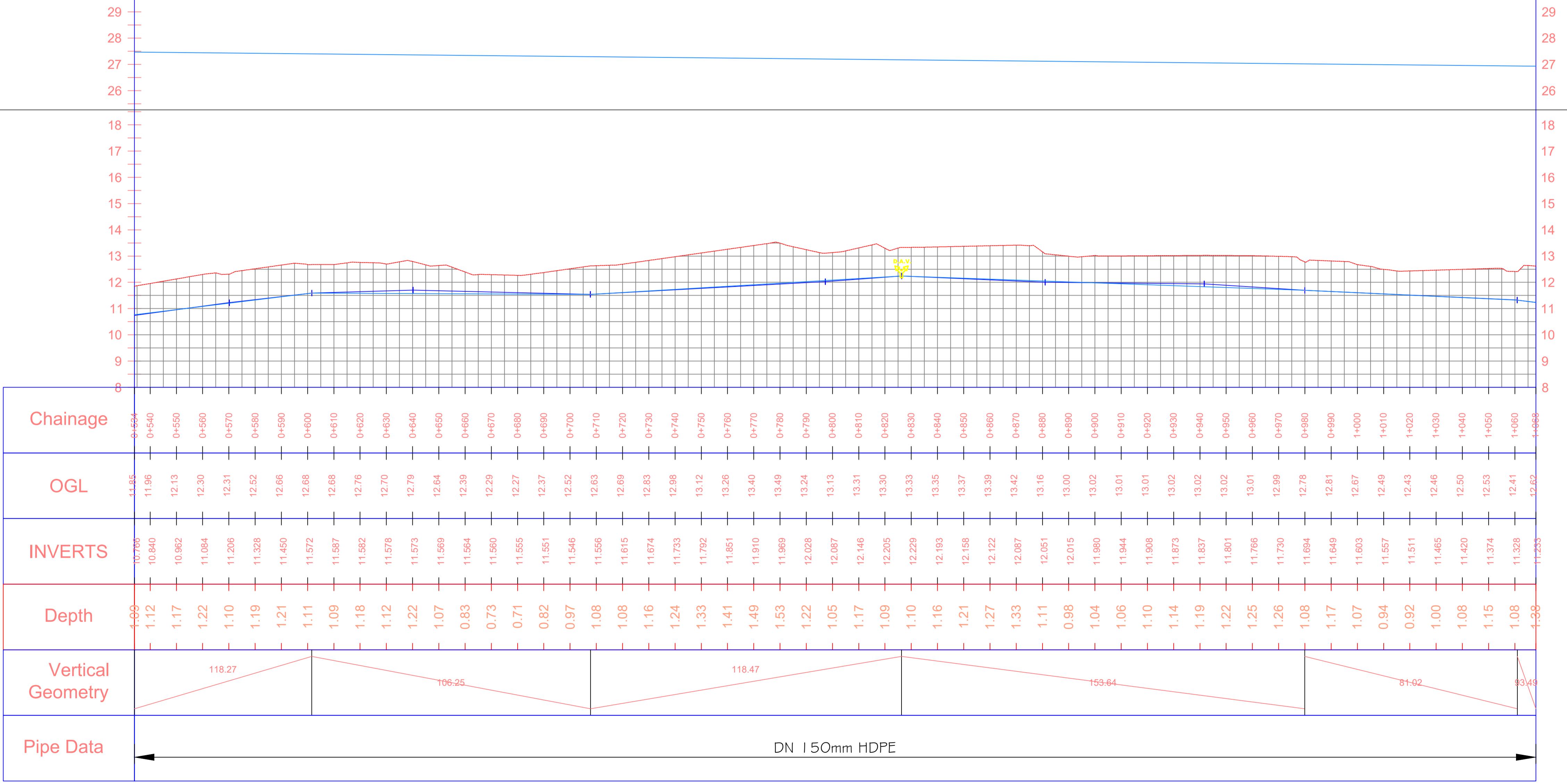
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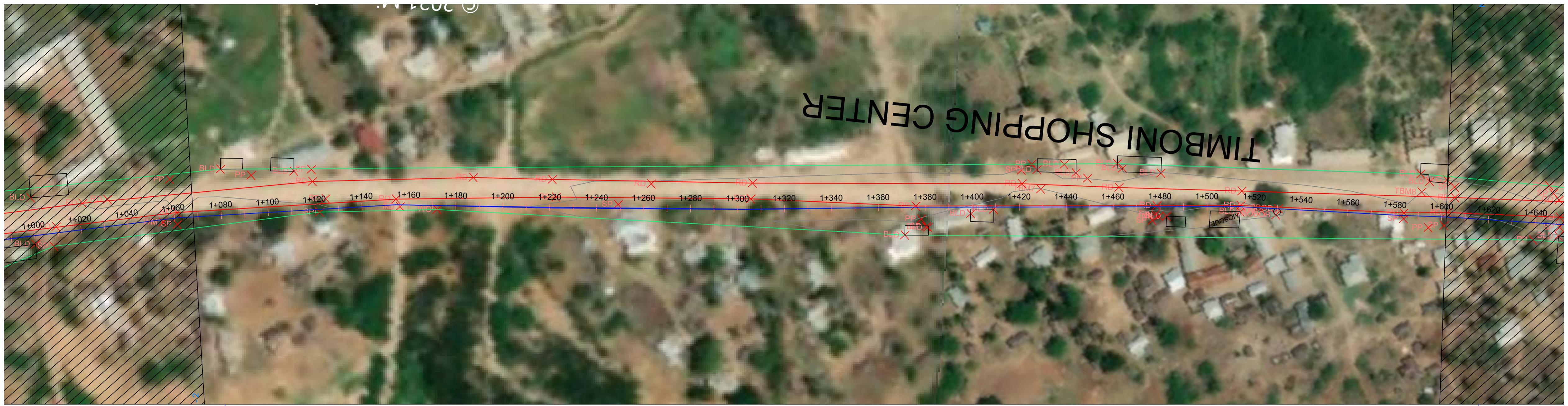


Checked, approved & signed for **TECHNICAL SERVICES MANAGER** by:

ENG. JAMES MUTURI
Registered Engineer's No.



Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE
Drawing No.: FLS-MHG-02 Drawing Title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES
Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:



0 1000 2000

W.O.
WASH OUT

S.A.V.
SINGLE AIR VALVE

D.A.V.
DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS
GROUND LEVELS
HORIZONTAL SCALE - 1:100
VERTICAL SCALE - 1:10

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COAST WATER WORKS DEVELOPMENT AGENCY

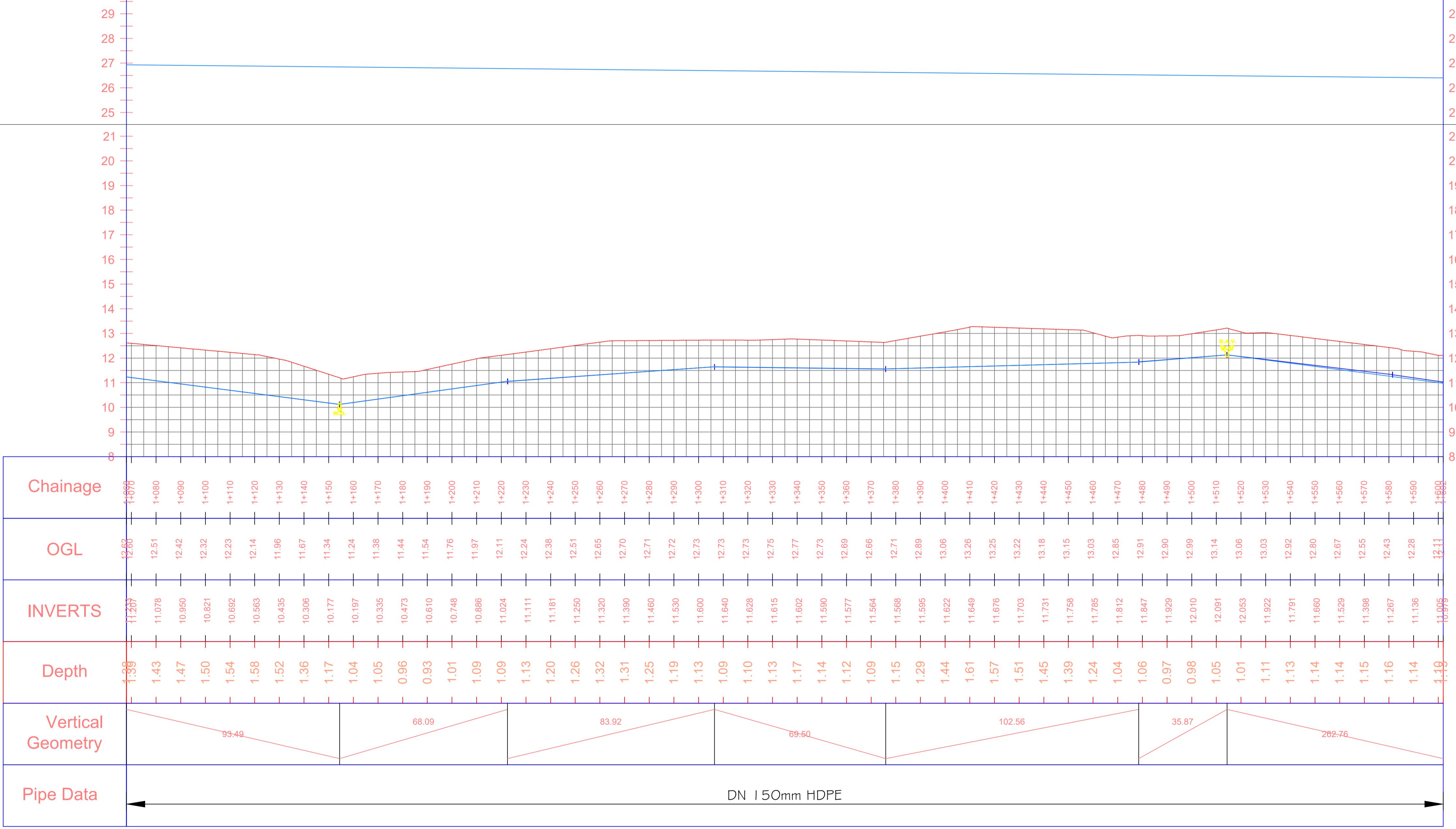
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-03 Drawing title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:





0 1000 2000

W.O.
WASH OUT

S.A.V.
SINGLE AIR VALVE

D.A.V.
DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

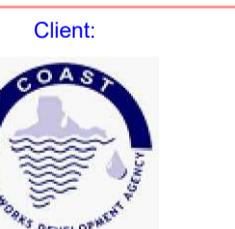
GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

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COAST WATER WORKS DEVELOPMENT AGENCY

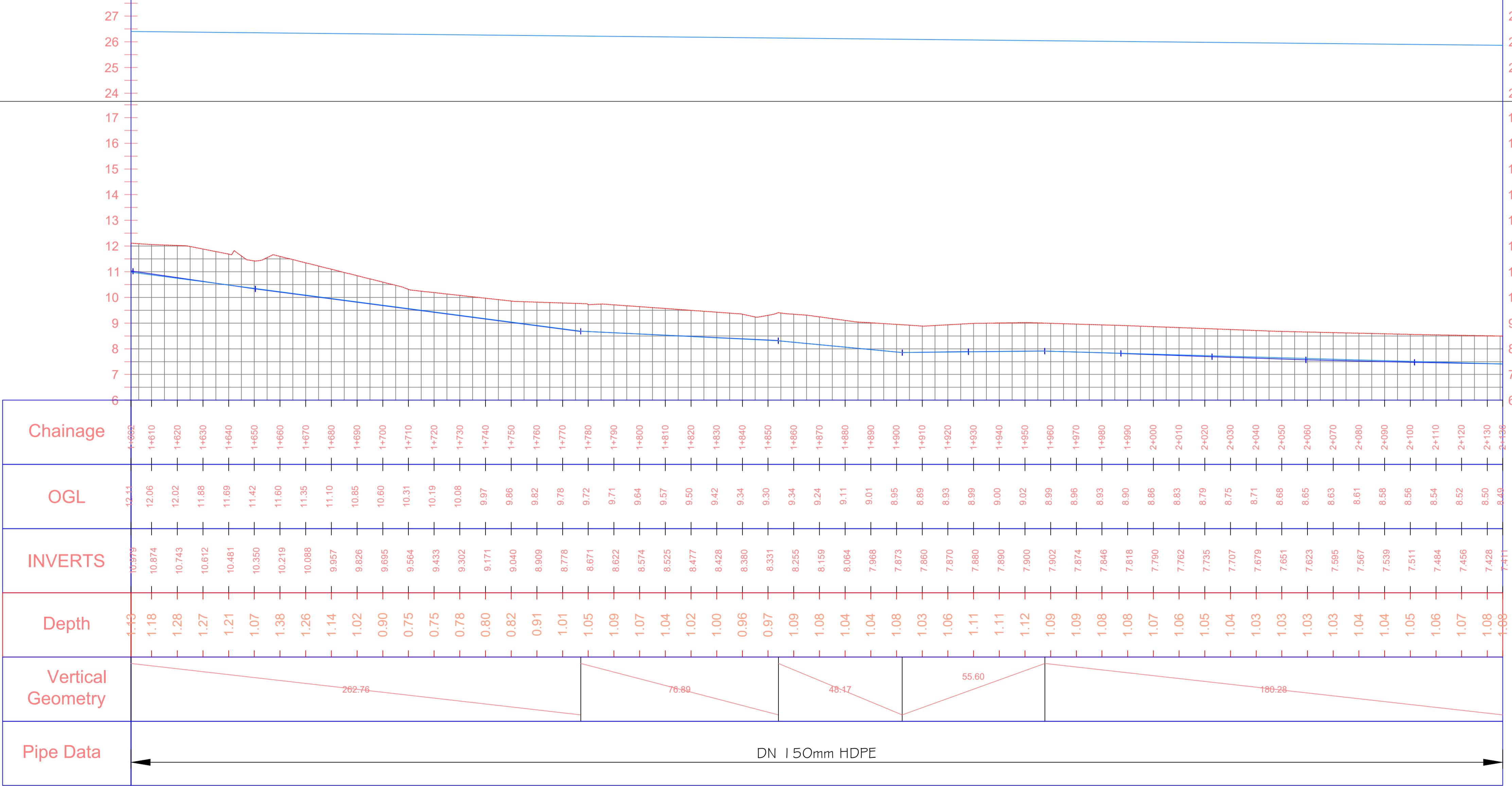
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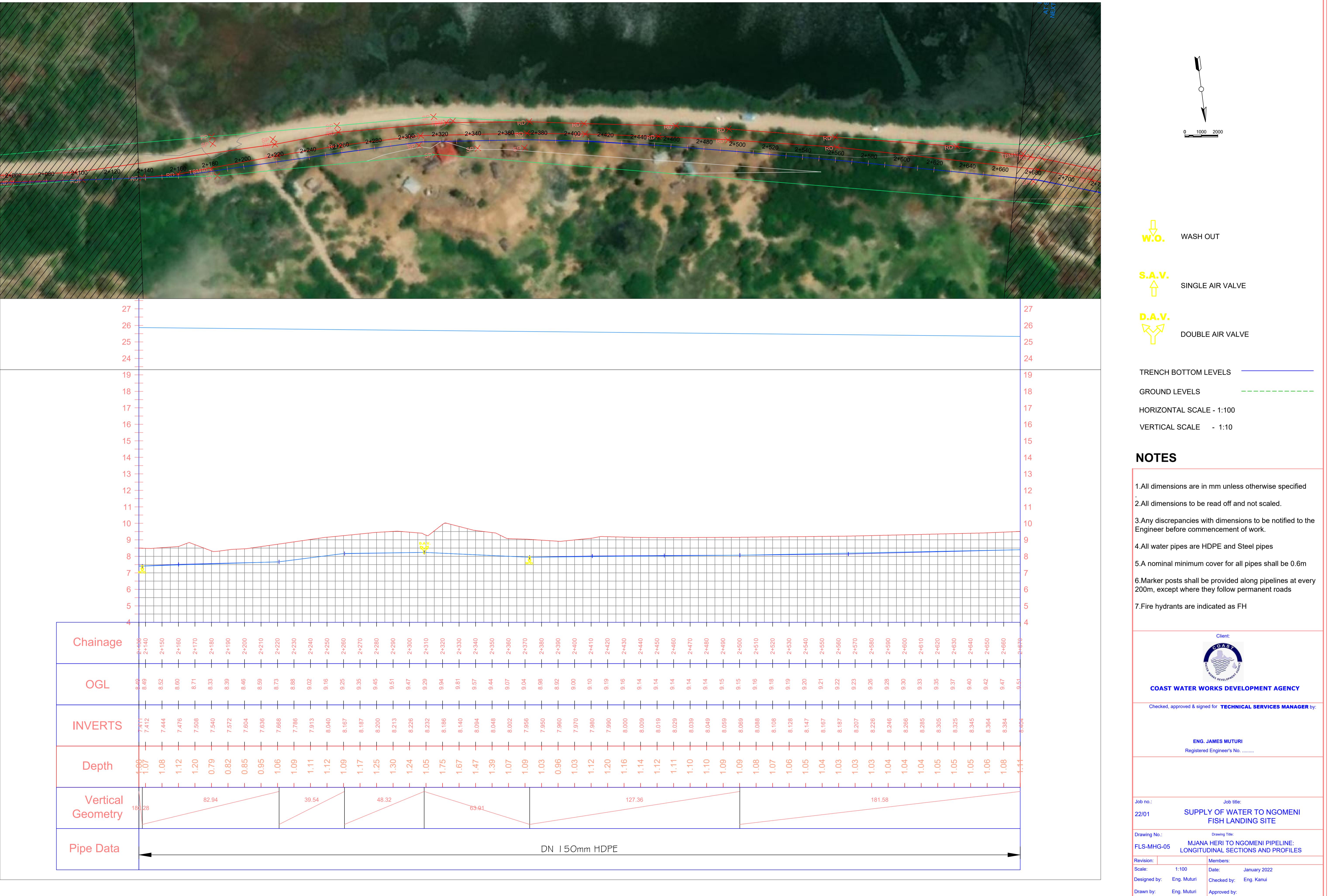
ENG. JAMES MUTURI
Registered Engineer's No.

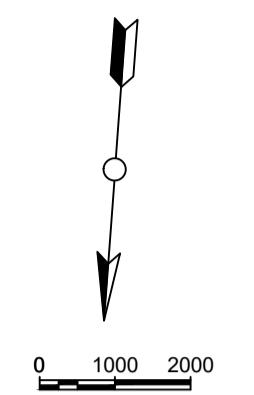
Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-04 Drawing title:
MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:







W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

WATER NOTES

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COAST WATER WORKS DEVELOPMENT AGENCY

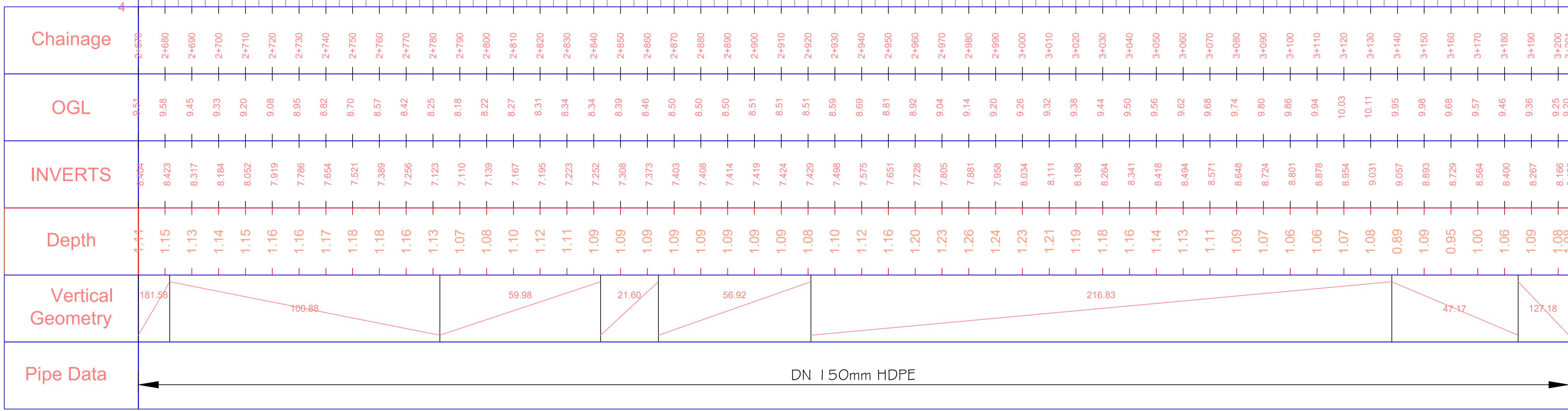
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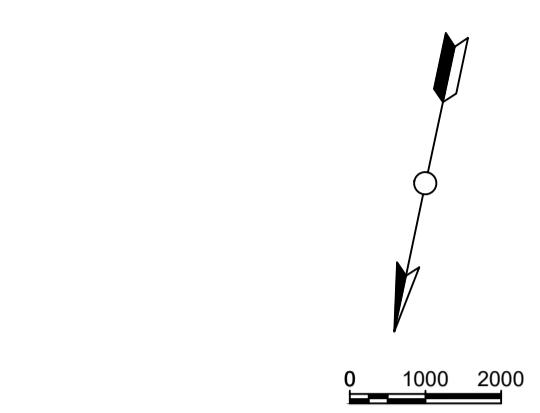
ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-06 Drawing title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision:	Members:
Scale: 1:100	Date: January 2022
Designed by: Eng. Muturi	Checked by: Eng. Kanui
Drawn by: Eng. Muturi	Approved by:





W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

WATER NOTES

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COAST WATER WORKS DEVELOPMENT AGENCY

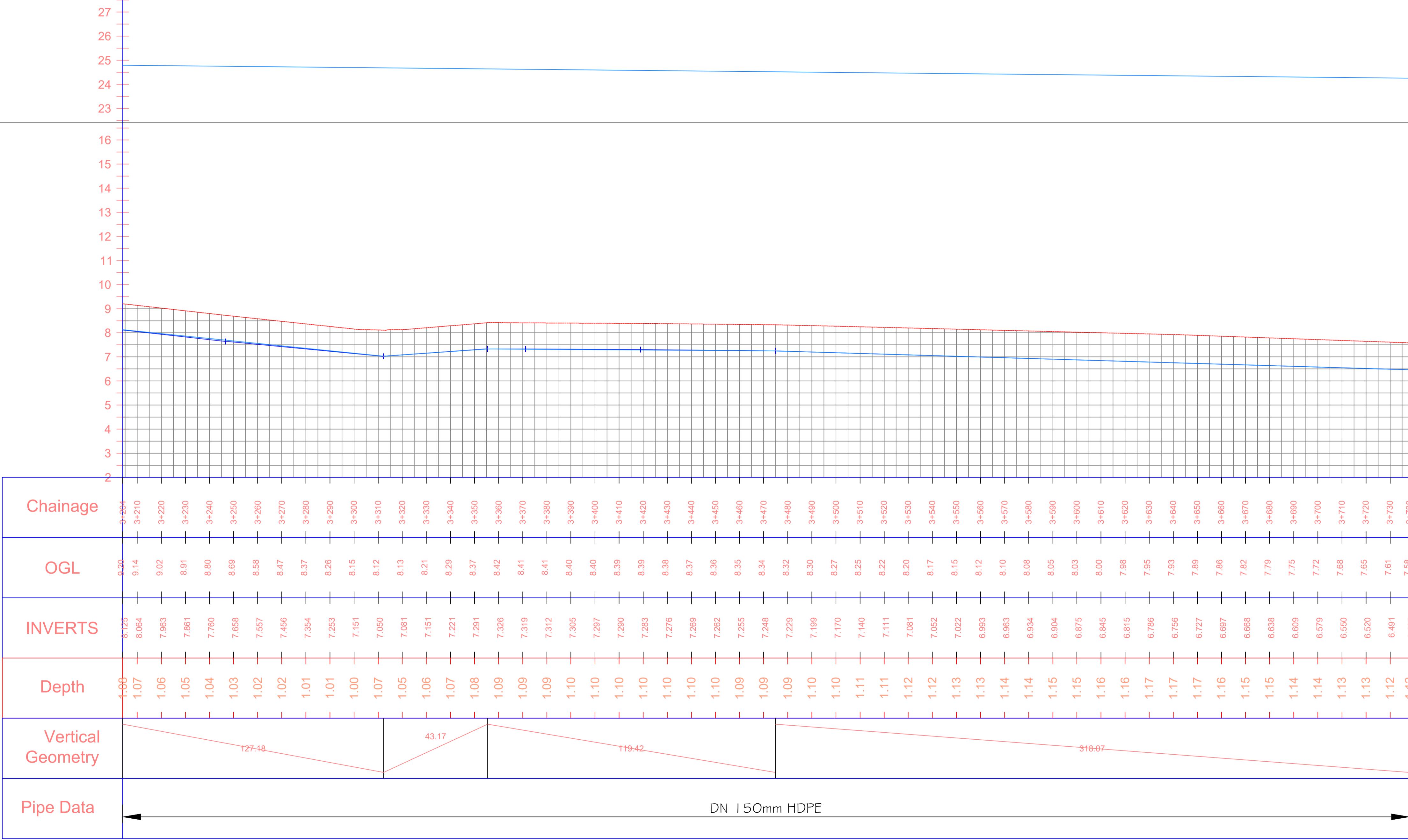
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-07 Drawing title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:





0
1000
2000

W.O.
WASH OUT

S.A.V.
SINGLE AIR VALVE

D.A.V.
DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-08 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

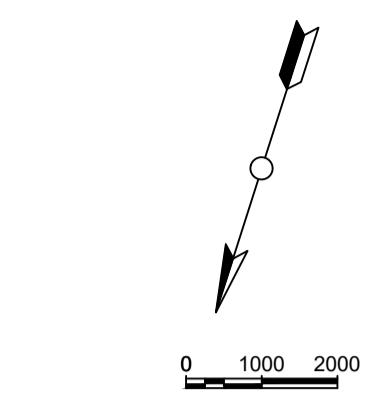
Revision: Members:

Scale: 1:100 Date: January 2022

Designed by: Eng. Muturi Checked by: Eng. Kanui

Drawn by: Eng. Muturi Approved by:

Chainage	7.58	7.57	7.54	7.50	7.47	7.44	7.42	7.40	7.38	7.35	7.32	7.30	7.28	7.26	7.24	7.22	7.20	7.18	7.16	7.14	7.12	7.10	7.08	7.06	7.04	7.02	7.00	6.98	6.96	6.94	6.92	6.90	6.88	6.86	6.84	6.82	6.80	6.78	6.76	6.74	6.72	6.70	6.68	6.66	6.64	6.62	6.60	6.58	6.56	6.54	6.52	6.50	6.48	6.46	6.44	6.42	6.40	6.38	6.36	6.34	6.32	6.30	6.28	6.26	6.24	6.22	6.20	6.18	6.16	6.14	6.12	6.10	6.08	6.06	6.04	6.02	6.00	5.98	5.96	5.94	5.92	5.90	5.88	5.86	5.84	5.82	5.80	5.78	5.76	5.74	5.72	5.70	5.68	5.66	5.64	5.62	5.60	5.58	5.56	5.54	5.52	5.50	5.48	5.46	5.44	5.42	5.40	5.38	5.36	5.34	5.32	5.30	5.28	5.26	5.24	5.22	5.20	5.18	5.16	5.14	5.12	5.10	5.08	5.06	5.04	5.02	5.00	4.98	4.96	4.94	4.92	4.90	4.88	4.86	4.84	4.82	4.80	4.78	4.76	4.74	4.72	4.70	4.68	4.66	4.64	4.62	4.60	4.58	4.56	4.54	4.52	4.50	4.48	4.46	4.44	4.42	4.40	4.38	4.36	4.34	4.32	4.30	4.28	4.26	4.24	4.22	4.20	4.18	4.16	4.14	4.12	4.10	4.08	4.06	4.04	4.02	4.00	3.98	3.96	3.94	3.92	3.90	3.88	3.86	3.84	3.82	3.80	3.78	3.76	3.74	3.72	3.70	3.68	3.66	3.64	3.62	3.60	3.58	3.56	3.54	3.52	3.50	3.48	3.46	3.44	3.42	3.40	3.38	3.36	3.34	3.32	3.30	3.28	3.26	3.24	3.22	3.20	3.18	3.16	3.14	3.12	3.10	3.08	3.06	3.04	3.02	3.00	2.98	2.96	2.94	2.92	2.90	2.88	2.86	2.84	2.82	2.80	2.78	2.76	2.74	2.72	2.70	2.68	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.46	2.44	2.42	2.40	2.38	2.36	2.34	2.32	2.30	2.28	2.26	2.24	2.22	2.20	2.18	2.16	2.14	2.12	2.10	2.08	2.06	2.04	2.02	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84	1.82	1.80	1.78	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.40	1.38	1.36	1.34	1.32	1.30	1.28	1.26	1.24	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02	1.00	98.07	43.92	51.17	46.44	118.12	28.33	37.98	99.05	69.32	66.69	
OGL	8.281	7.58	7.57	7.54	7.50	7.47	7.44	7.42	7.40	7.38	7.35	7.32	7.30	7.28	7.26	7.24	7.22	7.20	7.18	7.16	7.14	7.12	7.10	7.08	7.06	7.04	7.02	7.00	6.98	6.96	6.94	6.92	6.90	6.88	6.86	6.84	6.82	6.80	6.78	6.76	6.74	6.72	6.70	6.68	6.66	6.64	6.62	6.60	6.58	6.56	6.54	6.52	6.50	6.48	6.46	6.44	6.42	6.40	6.38	6.36	6.34	6.32	6.30	6.28	6.26	6.24	6.22	6.20	6.18	6.16	6.14	6.12	6.10	6.08	6.06	6.04	6.02	6.00	5.98	5.96	5.94	5.92	5.90	5.88	5.86	5.84	5.82	5.80	5.78	5.76	5.74	5.72	5.70	5.68	5.66	5.64	5.62	5.60	5.58	5.56	5.54	5.52	5.50	5.48	5.46	5.44	5.42	5.40	5.38	5.36	5.34	5.32	5.30	5.28	5.26	5.24	5.22	5.20	5.18	5.16	5.14	5.12	5.10	5.08	5.06	5.04	5.02	5.00	4.98	4.96	4.94	4.92	4.90	4.88	4.86	4.84	4.82	4.80	4.78	4.76	4.74	4.72	4.70	4.68	4.66	4.64	4.62	4.60	4.58	4.56	4.54	4.52	4.50	4.48	4.46	4.44	4.42	4.40	4.38	4.36	4.34	4.32	4.30	4.28	4.26	4.24	4.22	4.20	4.18	4.16	4.14	4.12	4.10	4.08	4.06	4.04	4.02	4.00	3.98	3.96	3.94	3.92	3.90	3.88	3.86	3.84	3.82	3.80	3.78	3.76	3.74	3.72	3.70	3.68	3.66	3.64	3.62	3.60	3.58	3.56	3.54	3.52	3.50	3.48	3.46	3.44	3.42	3.40	3.38	3.36	3.34	3.32	3.30	3.28	3.26	3.24	3.22	3.20	3.18	3.16	3.14	3.12	3.10	3.08	3.06	3.04	3.02	3.00	2.98	2.96	2.94	2.92	2.90	2.88	2.86	2.84	2.82	2.80	2.78	2.76	2.74	2.72	2.70	2.68	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.46	2.44	2.42	2.40	2.38	2.36	2.34	2.32	2.30	2.28	2.26	2.24	2.22	2.20	2.18	2.16	2.14	2.12	2.10	2.08	2.06	2.04	2.02	2.00	1.98	1.96	1.94	1.92	1.90	1.88	1.86	1.84	1.82	1.80	1.78	1.76	1.74	1.72	1.70	1.68	1.66	1.64	1.62	1.60	1.58	1.56	1.54	1.52	1.50	1.48	1.46	1.44	1.42	1.40	1.38	1.36	1.34	1.32	1.30	1.28	1.26	1.24	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02	1.00	98.07	43.92	51.17	46.44	118.12	28.33	37.98	99.05	69.32	66.69
INVERTS	6.331	6.330	6.329	6.328	6.327	6.326	6.325	6.324	6.323	6.322	6.321	6.320	6.319	6.318	6.317	6.316	6.315	6.314	6.313	6.312	6.311	6.310	6.309	6.308	6.307	6.306	6.305	6.304	6.303	6.302	6.301	6.300	6.299	6.298	6.297	6.296	6.295	6.294	6.293	6.292	6.291	6.290	6.289	6.288	6.287</																																																																																																																																																																																																																																																																																																					



W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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COAST WATER WORKS DEVELOPMENT AGENCY

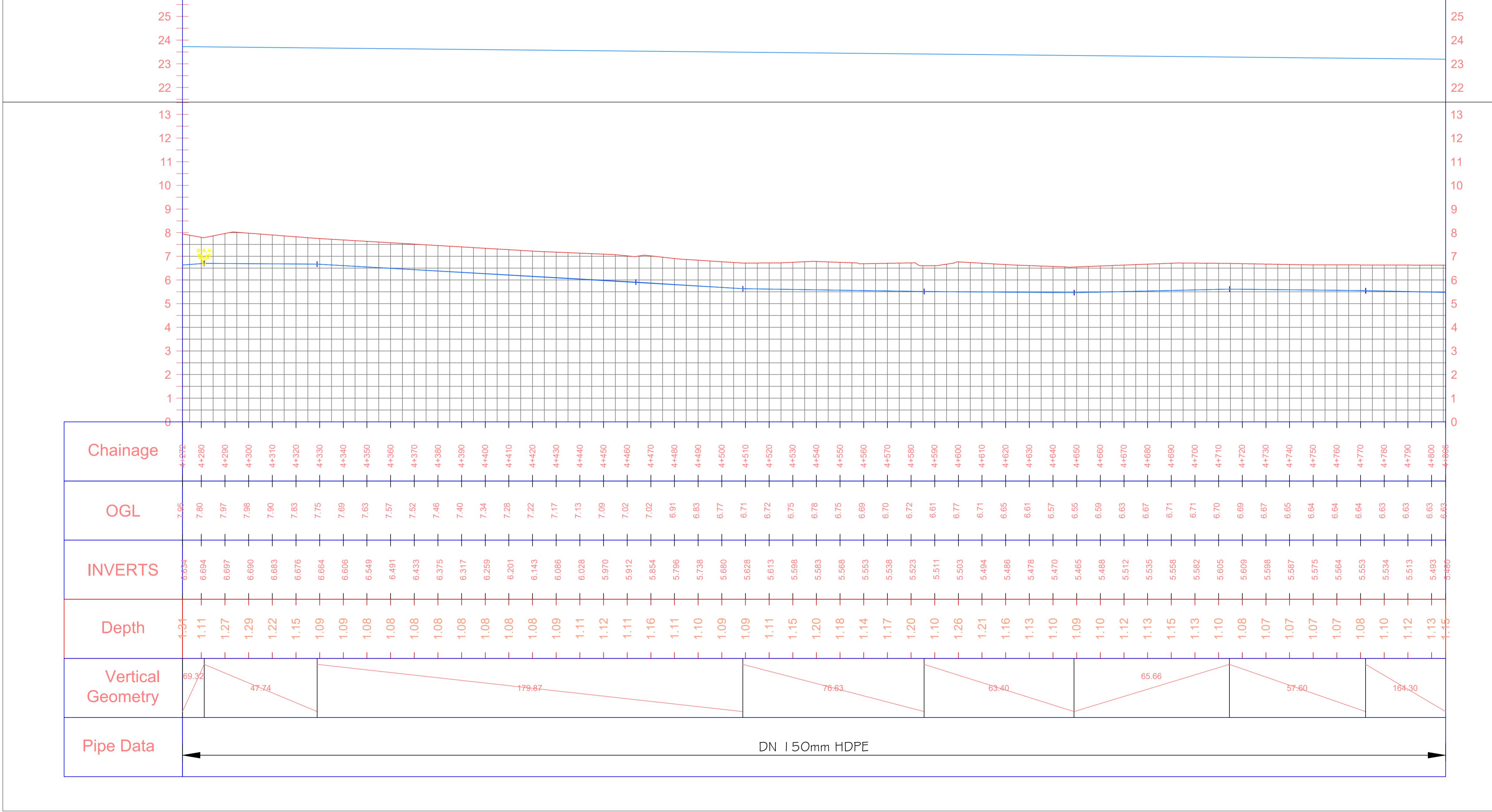
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Registered Engineer's No.

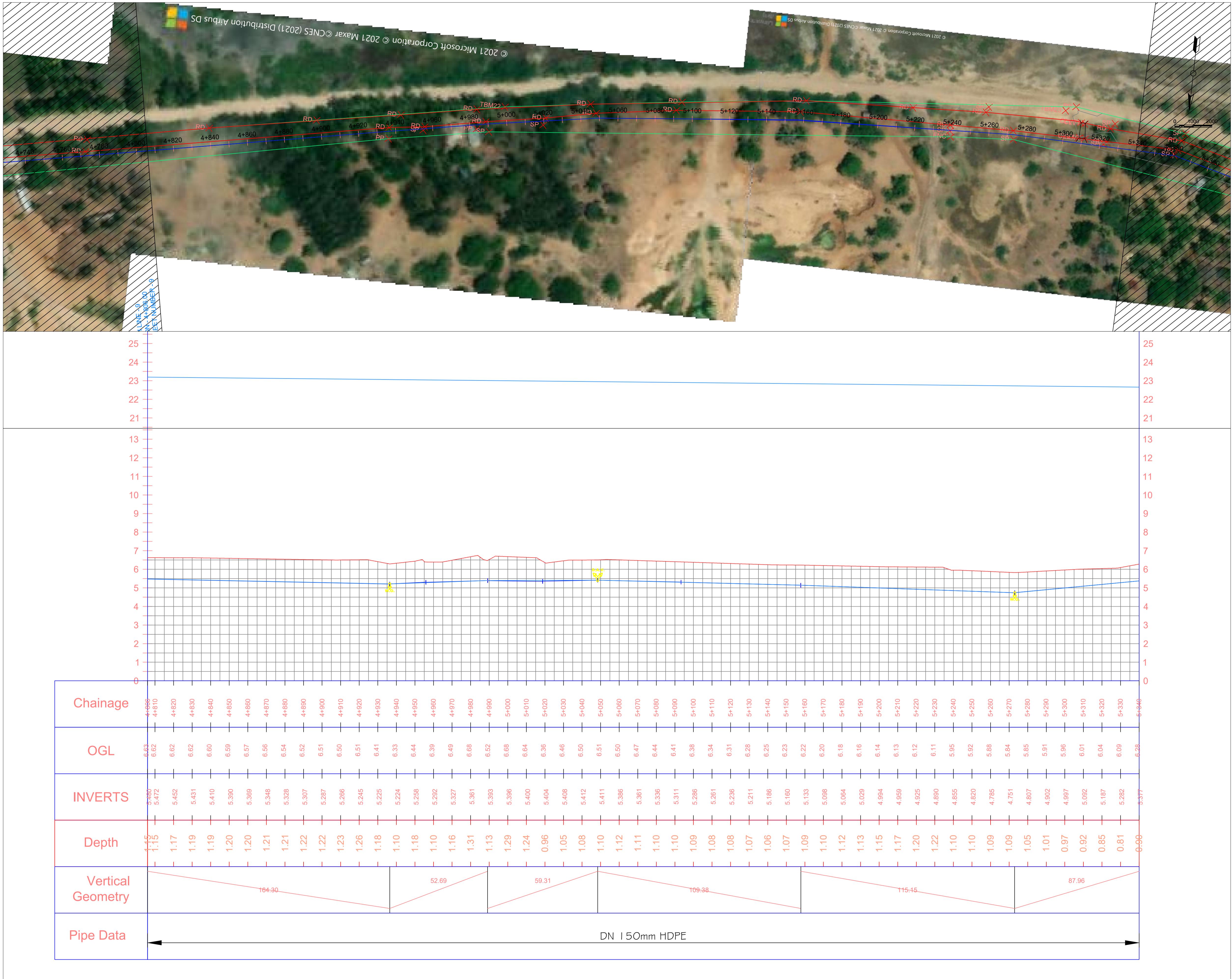
Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-09 Drawing title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision:	Members:
Scale: 1:100	Date: January 2022
Designed by: Eng. Muturi	Checked by: Eng. Kanui
Drawn by: Eng. Muturi	Approved by:



DN 150mm HDPE



W.O. WASH OUT

S.A.V. SINGLE AIR VALVE

D.A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

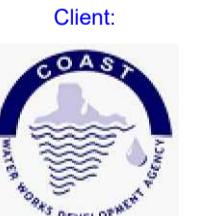
GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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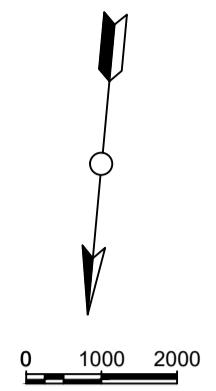
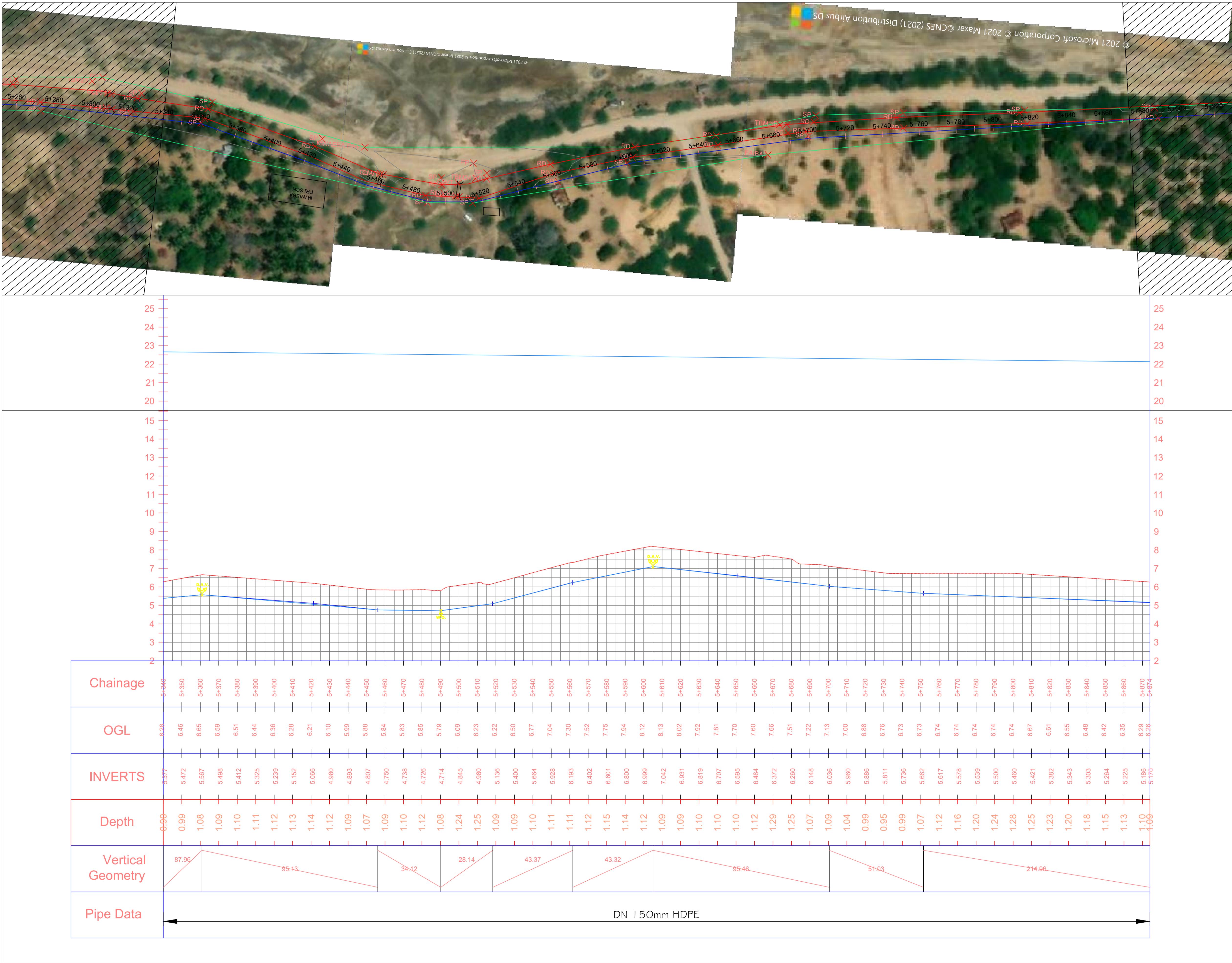
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-10 Drawing title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:



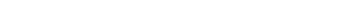
A yellow rectangular box containing a black downward-pointing arrow, positioned above the text "WASH OUT".

A.V.



SINGLE AIR VALVE

A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS 

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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 6. Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
 7. Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for **TECHNICAL SERVICES MANAGER** by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job title:

SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

g No.:	Drawing Title:
MHG-11	MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES
n:	Members:
ed by:	1:100 Date: January 2022
by:	Eng. Muturi Checked by: Eng. Kanui
	Approved by:



0 1000 2000

W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

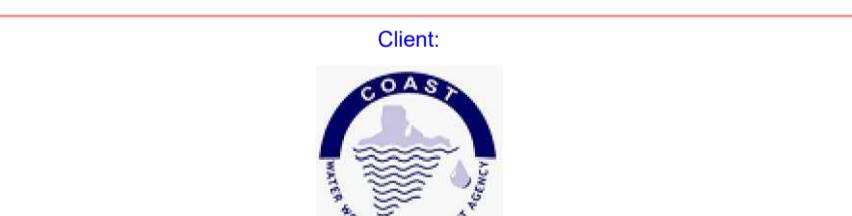
GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified.
- All dimensions to be read off and not scaled.
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work.
- All water pipes are HDPE and Steel pipes
- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



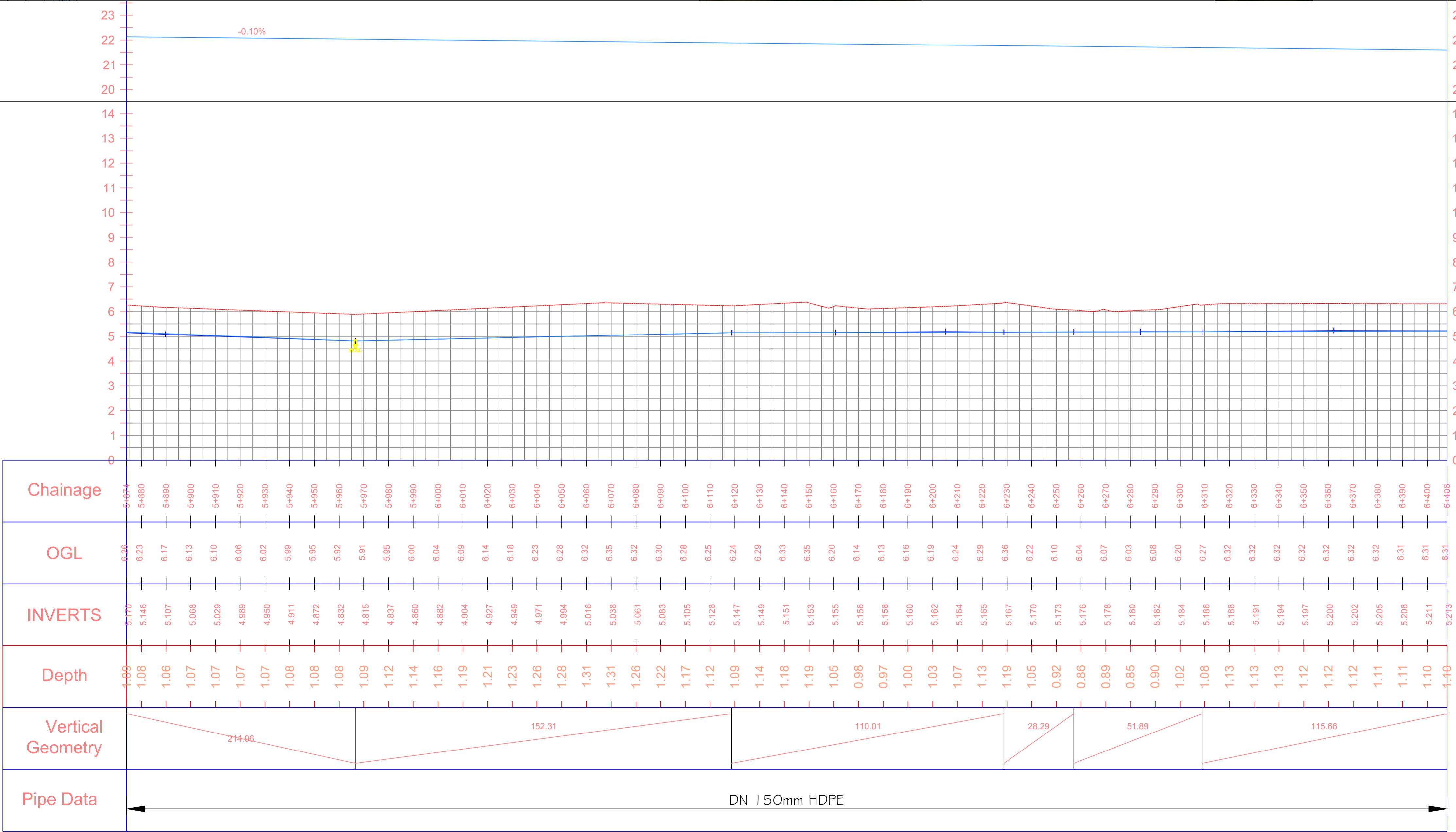
Checked, approved & signed for **TECHNICAL SERVICES MANAGER** by:

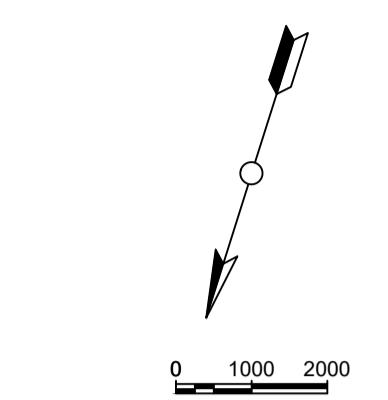
ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-12 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision:	Members:
Scale: 1:100	Date: January 2022
Designed by: Eng. Muturi	Checked by: Eng. Kanui
Drawn by: Eng. Muturi	Approved by:





W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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- Any discrepancies with dimensions to be notified to the Engineer before commencement of work.
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- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

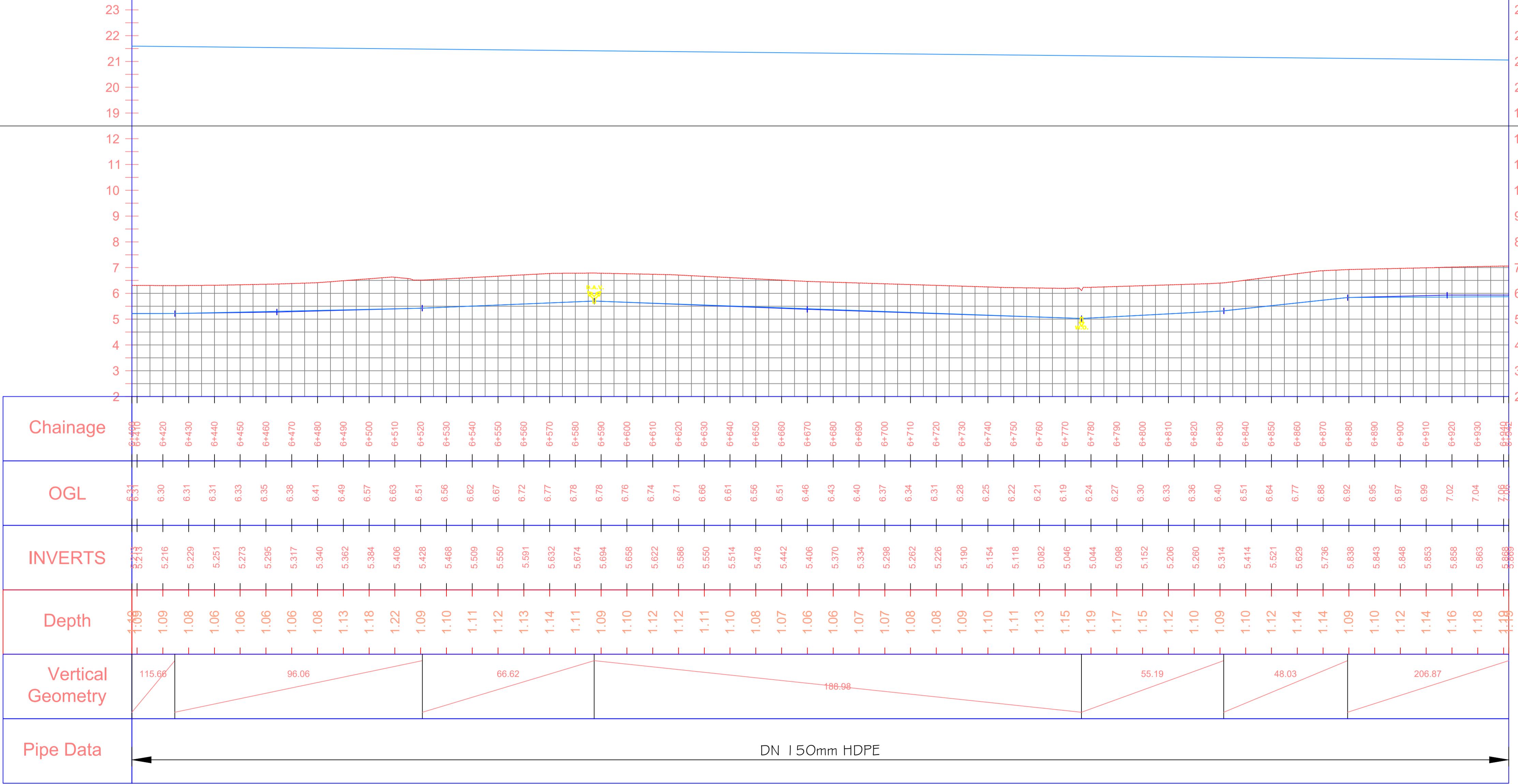
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-13 Drawing title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision:	Members:
Scale:	1:100
Designed by:	Eng. Muturi
Drawn by:	Eng. Muturi
Approved by:	Eng. Kanui





0 1000 2000

W.O.
WASH OUT

S.A.V.
SINGLE AIR VALVE

D.A.V.
DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

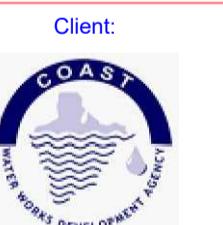
GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

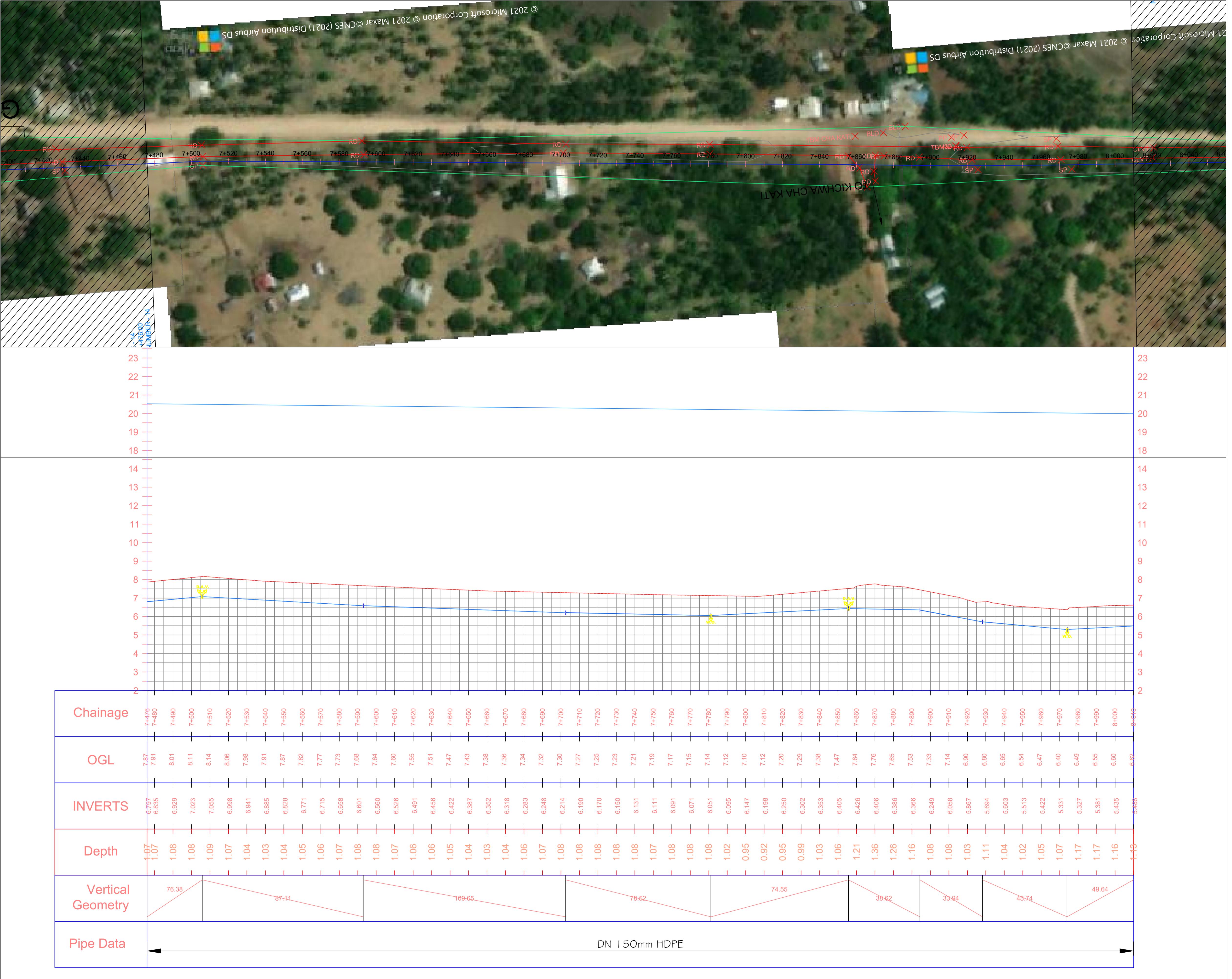
ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-14 Drawing Title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:

Chainage	6+940	6+945	6+950	6+960	6+970	6+980	7+000	7+020	7+040	7+060	7+080	7+100	7+120	7+140	7+160	7+180	7+200	7+220	7+240	7+260	7+280	7+300	7+320	7+340	7+360	7+380	7+400	7+420	7+440	7+460	7+480	7+500	7+520																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
OGL	7.06	7.05	7.05	7.05	7.04	7.04	7.03	7.03	7.03	7.02	7.02	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01	7.01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
INVERTS	5.869	5.873	5.878	5.883	5.888	5.893	5.898	5.903	5.908	5.914	5.919	5.924	5.929	5.934	5.939	5.944	5.949	5.954	5.959	5.964	5.969	5.974	5.979	5.984	5.989	5.994	5.999	7.004	7.009	7.014	7.019	7.024	7.029	7.034	7.039	7.044	7.049	7.054	7.059	7.064	7.069	7.074	7.079	7.084	7.089	7.094	7.099	7.104	7.109	7.114	7.119	7.124	7.129	7.134	7.139	7.144	7.149	7.154	7.159	7.164	7.169	7.174	7.179	7.184	7.189	7.194	7.199	7.204	7.209	7.214	7.219	7.224	7.229	7.234	7.239	7.244	7.249	7.254	7.259	7.264	7.269	7.274	7.279	7.284	7.289	7.294	7.299	7.304	7.309	7.314	7.319	7.324	7.329	7.334	7.339	7.344	7.349	7.354	7.359	7.364	7.369	7.374	7.379	7.384	7.389	7.394	7.399	7.404	7.409	7.414	7.419	7.424	7.429	7.434	7.439	7.444	7.449	7.454	7.459	7.464	7.469	7.474	7.479	7.484	7.489	7.494	7.499	7.504	7.509	7.514	7.519	7.524	7.529	7.534	7.539	7.544	7.549	7.554	7.559	7.564	7.569	7.574	7.579	7.584	7.589	7.594	7.599	7.604	7.609	7.614	7.619	7.624	7.629	7.634	7.639	7.644	7.649	7.654	7.659	7.664	7.669	7.674	7.679	7.684	7.689	7.694	7.699	7.704	7.709	7.714	7.719	7.724	7.729	7.734	7.739	7.744	7.749	7.754	7.759	7.764	7.769	7.774	7.779	7.784	7.789	7.794	7.799	7.804	7.809	7.814	7.819	7.824	7.829	7.834	7.839	7.844	7.849	7.854	7.859	7.864	7.869	7.874	7.879	7.884	7.889	7.894	7.899	7.904	7.909	7.914	7.919	7.924	7.929	7.934	7.939	7.944	7.949	7.954	7.959	7.964	7.969	7.974	7.979	7.984	7.989	7.994	7.999	7.004	7.009	7.014	7.019	7.024	7.029	7.034	7.039	7.044	7.049	7.054	7.059	7.064	7.069	7.074	7.079	7.084	7.089	7.094	7.099	7.104	7.109	7.114	7.119	7.124	7.129	7.134	7.139	7.144	7.149	7.154	7.159	7.164	7.169	7.174	7.179	7.184	7.189	7.194	7.199	7.204	7.209	7.214	7.219	7.224	7.229	7.234	7.239	7.244	7.249	7.254	7.259	7.264	7.269	7.274	7.279	7.284	7.289	7.294	7.299	7.304	7.309	7.314	7.319	7.324	7.329	7.334	7.339	7.344	7.349	7.354	7.359	7.364	7.369	7.374	7.379	7.384	7.389	7.394	7.399	7.404	7.409	7.414	7.419	7.424	7.429	7.434	7.439	7.444	7.449	7.454	7.459	7.464	7.469	7.474	7.479	7.484	7.489	7.494	7.499	7.504	7.509	7.514	7.519	7.524	7.529	7.534	7.539	7.544	7.549	7.554	7.559	7.564	7.569	7.574	7.579	7.584	7.589	7.594	7.599	7.604	7.609	7.614	7.619	7.624	7.629	7.634	7.639	7.644	7.649	7.654	7.659	7.664	7.669	7.674	7.679	7.684	7.689	7.694	7.699	7.704	7.709	7.714	7.719	7.724	7.729	7.734	7.739	7.744	7.749	7.754	7.759	7.764	7.769	7.774	7.779	7.784	7.789	7.794	7.799	7.804	7.809	7.814	7.819	7.824	7.829	7.834	7.839	7.844	7.849	7.854	7.859	7.864	7.869	7.874	7.879	7.884	7.889	7.894	7.899	7.904	7.909	7.914	7.919	7.924	7.929	7.934	7.939	7.944	7.949	7.954	7.959	7.964	7.969	7.974	7.979	7.984	7.989	7.994	7.999	7.004	7.009	7.014	7.019	7.024	7.029	7.034	7.039	7.044	7.049	7.054	7.059	7.064	7.069	7.074	7.079	7.084	7.089	7.094	7.099	7.104	7.109	7.114	7.119	7.124	7.129	7.134	7.139	7.144	7.149	7.154	7.159	7.164	7.169	7.174	7.179	7.184	7.189	7.194	7.199	7.204	7.209	7.214	7.219	7.224	7.229	7.234	7.239	7.244	7.249	7.254	7.259	7.264	7.269	7.274	7.279	7.284	7.289	7.294	7.299	7.304	7.309	7.314	7.319	7.324	7.329	7.334	7.339	7.344	7.349	7.354	7.359	7.364	7.369	7.374	7.379	7.384	7.389	7.394	7.399	7.404	7.409	7.414	7.419	7.424	7.429	7.434	7.439	7.444	7.449	7.454	7.459	7.464	7.469	7.474	7.479	7.484	7.489	7.494	7.499	7.504	7.509	7.514	7.519	7.524	7.529	7.534	7.539	7.544	7.549	7.554	7.559	7.564	7.569	7.574	7.579	7.584	7.589	7.594	7.599	7.604	7.609	7.614	7.619	7.624	7.629	7.634	7.639	7.644	7.649	7.654	7.659	7.664	7.669	7.674	7.679	7.684	7.689	7.694	7.699	7.704	7.709	7.714	7.719	7.724	7.729	7.734	7.739	7.744	7.749	7.754	7.759	7.764	7.769	7.774	7.779	7.784	7.789	7.794	7.799	7.804	7.



W.O.
WASH OUT

S.A.V.
SINGLE AIR VALVE

D.A.V.
DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified.
- All dimensions to be read off and not scaled.
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work.
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- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-15 Drawing Title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: 1:100 Members:

Scale: Date: January 2022

Designed by: Eng. Muturi Checked by: Eng. Kanui

Drawn by: Eng. Muturi Approved by:



0 1000 2000

W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

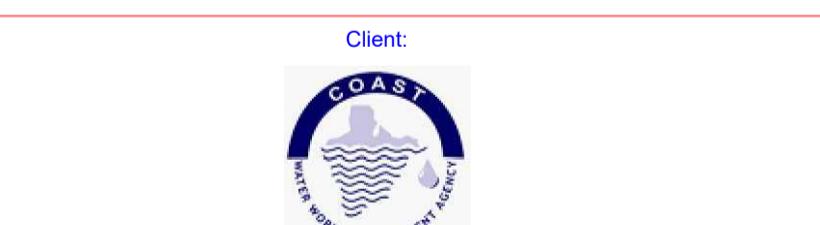
GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

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Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-16 Drawing title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

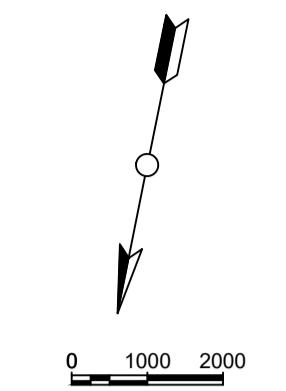
Revision: Members:

Scale: 1:100 Date: January 2022

Designed by: Eng. Muturi Checked by: Eng. Kanui

Drawn by: Eng. Muturi Approved by:

Chainage	4.43	5.488	6.62	8+016	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660	8+670	8+680	8+690	8+700	8+710	8+720	8+730	8+740	8+750	8+760	8+770	8+780	8+790	8+800	8+810	8+820	8+830	8+840	8+850	8+860	8+870	8+880	8+890	8+900	8+910	8+920	8+930	8+940	8+950	8+960	8+970	8+980	8+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660	8+670	8+680	8+690	8+700	8+710	8+720	8+730	8+740	8+750	8+760	8+770	8+780	8+790	8+800	8+810	8+820	8+830	8+840	8+850	8+860	8+870	8+880	8+890	8+900	8+910	8+920	8+930	8+940	8+950	8+960	8+970	8+980	8+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660	8+670	8+680	8+690	8+700	8+710	8+720	8+730	8+740	8+750	8+760	8+770	8+780	8+790	8+800	8+810	8+820	8+830	8+840	8+850	8+860	8+870	8+880	8+890	8+900	8+910	8+920	8+930	8+940	8+950	8+960	8+970	8+980	8+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660	8+670	8+680	8+690	8+700	8+710	8+720	8+730	8+740	8+750	8+760	8+770	8+780	8+790	8+800	8+810	8+820	8+830	8+840	8+850	8+860	8+870	8+880	8+890	8+900	8+910	8+920	8+930	8+940	8+950	8+960	8+970	8+980	8+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660	8+670	8+680	8+690	8+700	8+710	8+720	8+730	8+740	8+750	8+760	8+770	8+780	8+790	8+800	8+810	8+820	8+830	8+840	8+850	8+860	8+870	8+880	8+890	8+900	8+910	8+920	8+930	8+940	8+950	8+960	8+970	8+980	8+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610	8+620	8+630	8+640	8+650	8+660	8+670	8+680	8+690	8+700	8+710	8+720	8+730	8+740	8+750	8+760	8+770	8+780	8+790	8+800	8+810	8+820	8+830	8+840	8+850	8+860	8+870	8+880	8+890	8+900	8+910	8+920	8+930	8+940	8+950	8+960	8+970	8+980	8+990	8+000	8+010	8+020	8+030	8+040	8+050	8+060	8+070	8+080	8+090	8+100	8+110	8+120	8+130	8+140	8+150	8+160	8+170	8+180	8+190	8+200	8+210	8+220	8+230	8+240	8+250	8+260	8+270	8+280	8+290	8+300	8+310	8+320	8+330	8+340	8+350	8+360	8+370	8+380	8+390	8+400	8+410	8+420	8+430	8+440	8+450	8+460	8+470	8+480	8+490	8+500	8+510	8+520	8+530	8+540	8+550	8+560	8+570	8+580	8+590	8+600	8+610
<td



W.O. WASH OUT

S.A.V. SINGLE AIR VALVE

D.A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified
- All dimensions to be read off and not scaled
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work
- All water pipes are HDPE and Steel pipes
- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

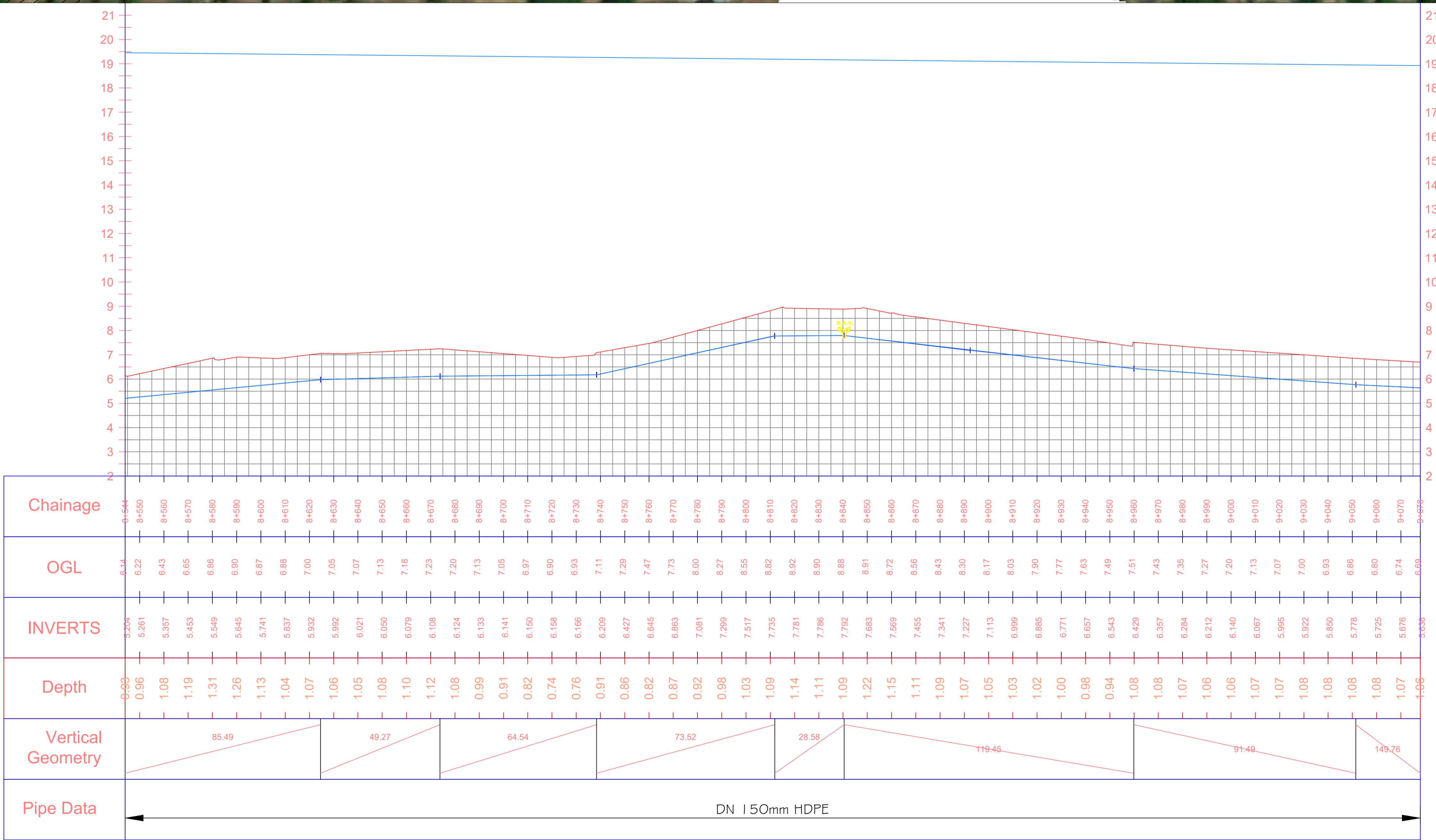
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

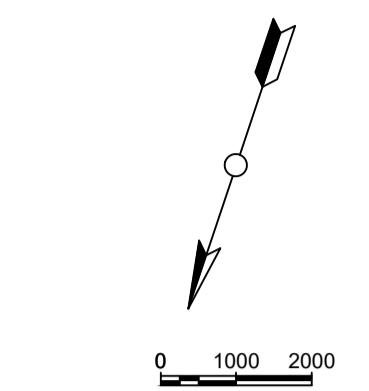
ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-17 Drawing title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision:	Members:
Scale: 1:100	Date: January 2022
Designed by: Eng. Muturi	Checked by: Eng. Kanui
Drawn by: Eng. Muturi	Approved by:





W.O.
WASH OUT

S.A.V.
SINGLE AIR VALVE

D.A.V.
DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS ——————

GROUND LEVELS - - - - -

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

1. All dimensions are in mm unless otherwise specified.
2. All dimensions to be read off and not scaled.

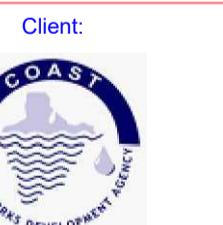
3. Any discrepancies with dimensions to be notified to the Engineer before commencement of work.

4. All water pipes are HDPE and Steel pipes

5. A nominal minimum cover for all pipes shall be 0.6m

6. Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads

7. Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

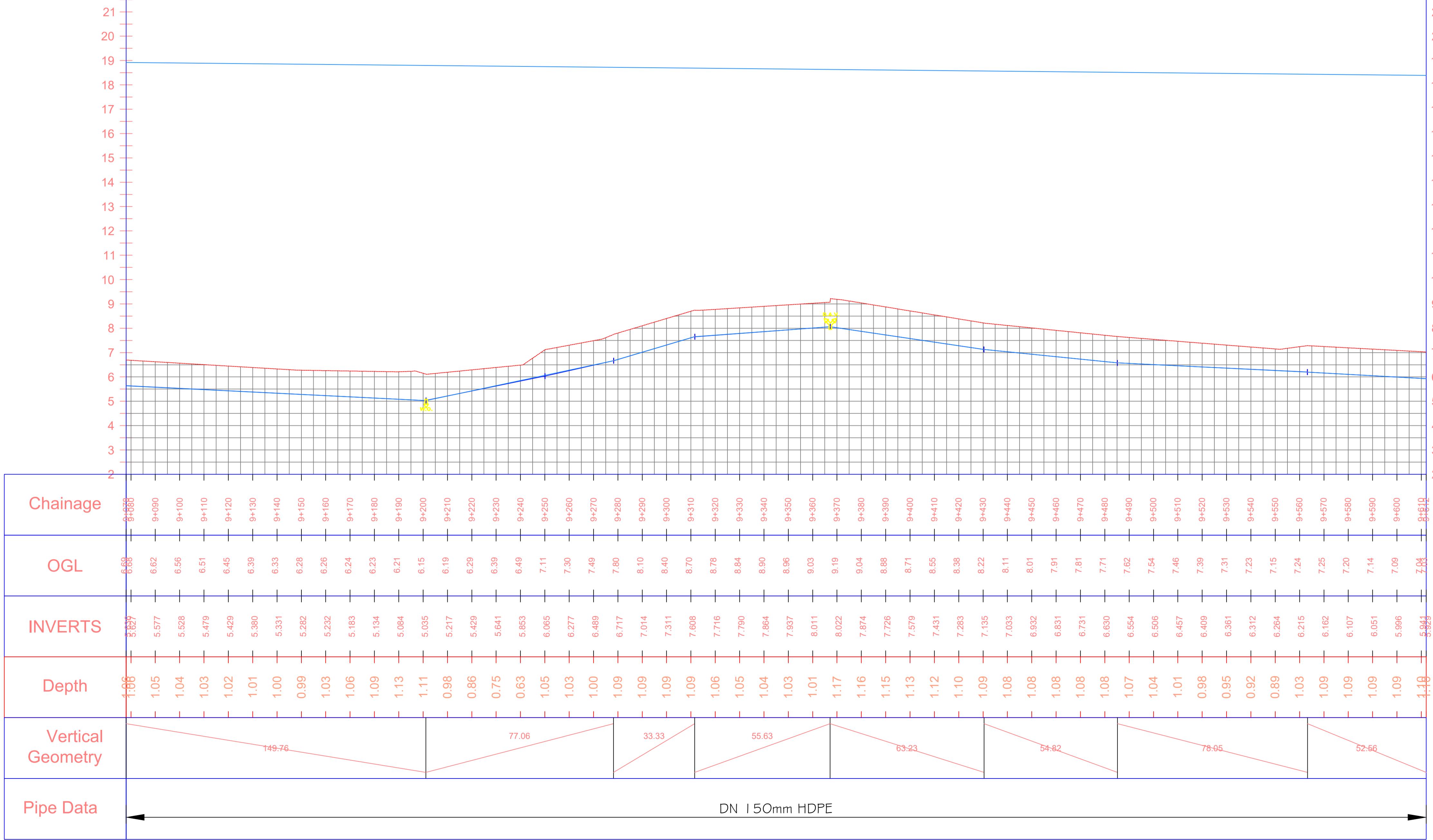
Drawing No.: FLS-MHG-18 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:

Scale: 1:100 Date: January 2022

Designed by: Eng. Muturi Checked by: Eng. Kanui

Drawn by: Eng. Muturi Approved by:





0 1000 2000

W.O. WASH OUT

S.A.V. SINGLE AIR VALVE

D.A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified.
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- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

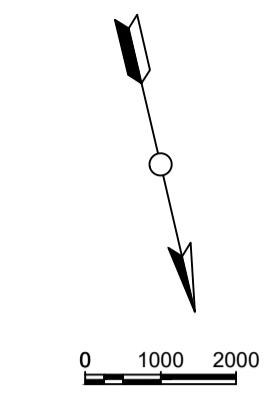
Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI
FISH LANDING SITE

Drawing No.: FLS-MHG-19 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE:
LONGITUDINAL SECTIONS AND PROFILES

Revision:	Members:
Scale: 1:100	Date: January 2022
Designed by: Eng. Muturi	Checked by: Eng. Kanui
Drawn by: Eng. Muturi	Approved by:

Chainage	OGL	Inverts	Depth	Vertical Geometry	Pipe Data
9+612	7.03				
9+620	6.96				
9+630	6.87				
9+640	6.78				
9+650	6.70				
9+660	6.61				
9+670	6.53				
9+680	6.44				
9+690	6.35				
9+700	6.27				
9+710	6.27				
9+720	6.27				
9+730	6.27				
9+740	6.27				
9+750	6.27				
9+760	6.27				
9+770	6.27				
9+780	6.27				
9+790	6.27				
9+800	6.27				
9+810	6.27				
9+820	6.27				
9+830	6.27				
9+840	6.27				
9+850	6.27				
9+860	6.27				
9+870	6.27				
9+880	6.27				
9+890	6.27				
9+900	6.27				
9+910	6.27				
9+920	6.27				
9+930	6.27				
9+940	6.27				
9+950	6.27				
9+960	6.27				
9+970	6.27				
9+980	6.27				
10+000	6.27				
10+020	6.27				
10+040	6.27				
10+060	6.27				
10+080	6.27				
10+100	6.27				
10+120	6.27				
10+140	6.27				
10+160	6.27				
10+180	6.27				
10+200	6.27				

DN 150mm HDPE



W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified.
- All dimensions to be read off and not scaled.
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work.
- All water pipes are HDPE and Steel pipes
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- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

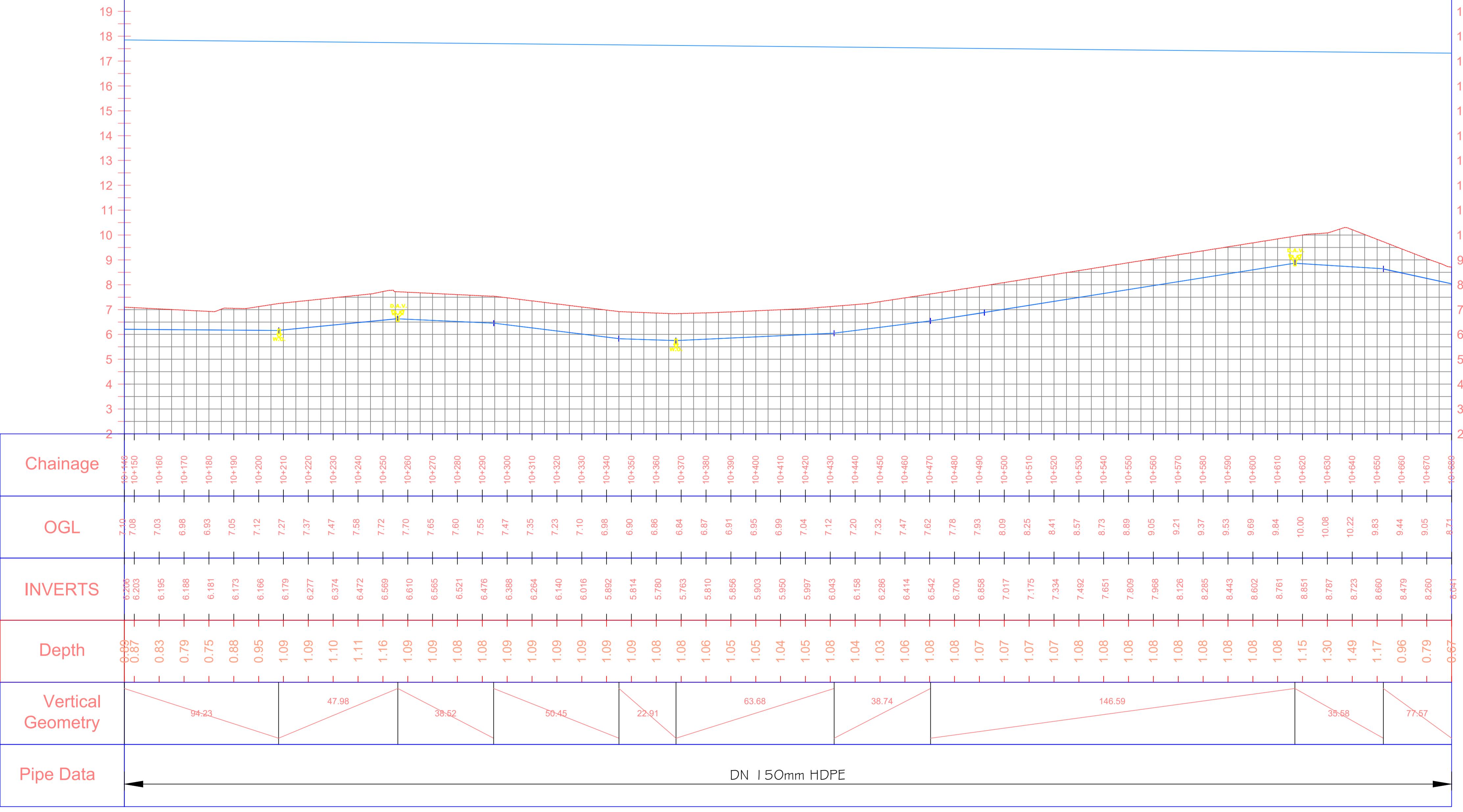
Drawing No.: FLS-MHG-20 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

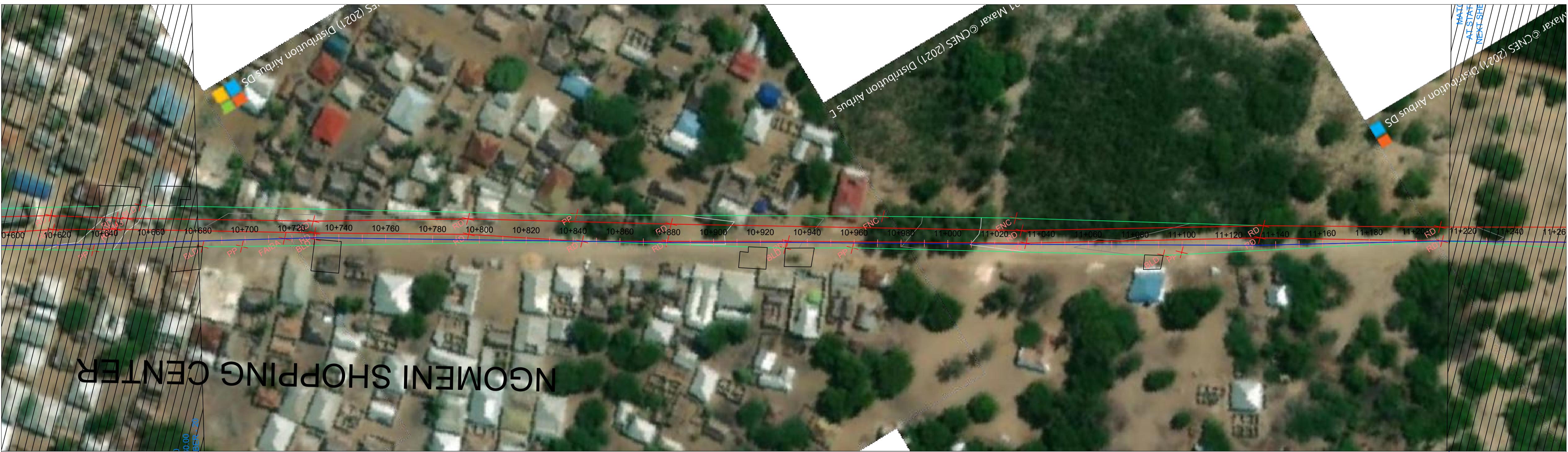
Revision: Members:

Scale: 1:100 Date: January 2022

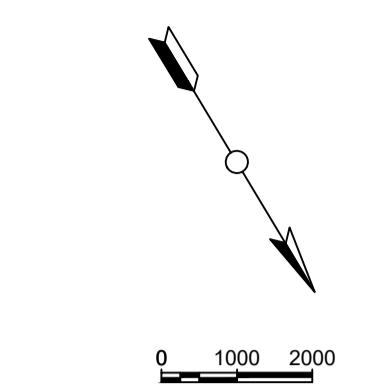
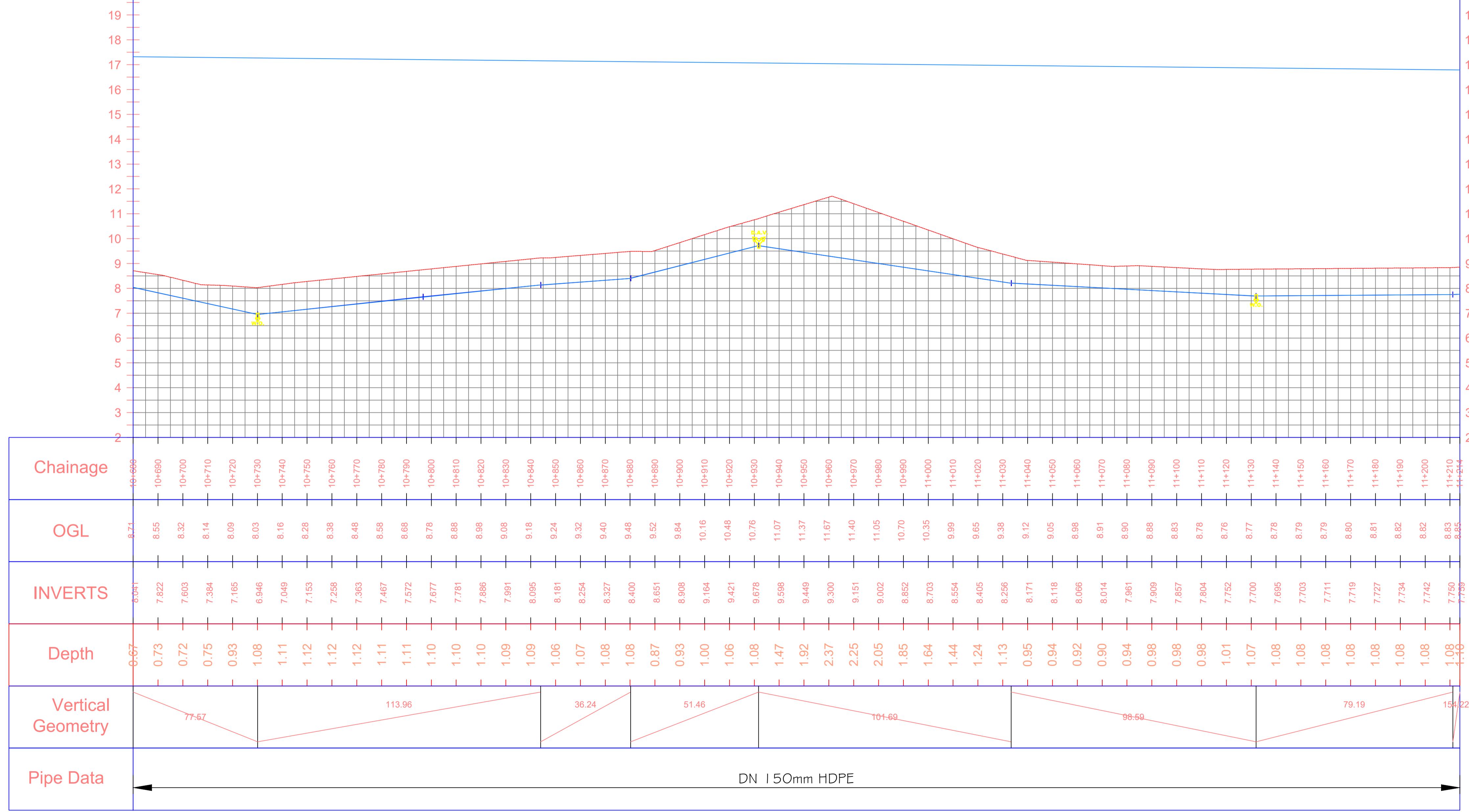
Designed by: Eng. Muturi Checked by: Eng. Kanui

Drawn by: Eng. Muturi Approved by:





NGOMENI SHOPPING CENTER



W.O. WASH OUT

S.A.V. SINGLE AIR VALVE

D.A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified.
- All dimensions to be read off and not scaled.
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work.
- All water pipes are HDPE and Steel pipes
- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

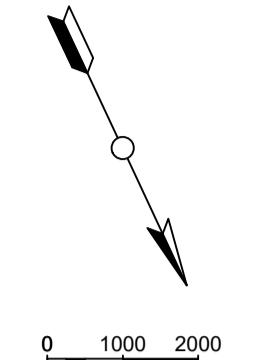
Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-21 Drawing title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:



0 1000 2000

W.O.

S.A.V.

D.A.V.

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified
- All dimensions to be read off and not scaled
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work
- All water pipes are HDPE and Steel pipes
- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title: SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

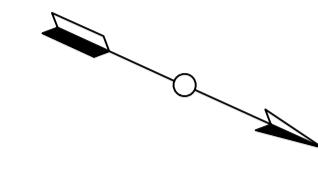
Drawing No.: FLS-MHG-22 Drawing Title: MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022

Designed by: Eng. Muturi Checked by: Eng. Kanui

Drawn by: Eng. Muturi Approved by:

Chainage	OGL	INVERTS	Depth	Vertical Geometry	Pipe Data
4.40	8.05	7.79	8.44	154.22	DN 150mm HDPE
4.41	8.90	7.775	8.50	85.46	
4.42	8.97	7.803	8.57	8.36	
4.43	9.04	7.831	8.63	16.29	
4.44	9.04	7.859	8.63	34.83	
4.45	9.11	7.886	8.70	16.34	
4.46	9.18	7.903	8.75	45.25	
4.47	9.25	7.914	8.80	51.15	
4.48	9.25	7.921	8.85	26.75	
4.49	9.32	7.942	8.90	16.48	
4.50	9.39	7.959	8.95	50.20	
4.51	9.46	7.988	9.00	39.44	
4.52	9.46	8.005	9.05		
4.53	9.53	8.025	9.10		
4.54	9.57	8.053	9.15		
4.55	9.55	8.081	9.20		
4.56	9.55	8.109	9.25		
4.57	9.47	8.136	9.30		
4.58	9.47	8.164	9.35		
4.59	9.47	8.182	9.40		
4.60	9.47	8.200	9.45		
4.61	9.47	8.218	9.50		
4.62	9.47	8.236	9.55		
4.63	9.47	8.254	9.60		
4.64	9.47	8.272	9.65		
4.65	9.47	8.290	9.70		
4.66	9.47	8.308	9.75		
4.67	9.47	8.326	9.80		
4.68	9.47	8.344	9.85		
4.69	9.47	8.362	9.90		
4.70	9.47	8.380	9.95		
4.71	9.47	8.398	10.00		
4.72	9.47	8.416	10.05		
4.73	9.47	8.434	10.10		
4.74	9.47	8.452	10.15		
4.75	9.47	8.470	10.20		
4.76	9.47	8.488	10.25		
4.77	9.47	8.506	10.30		
4.78	9.47	8.524	10.35		
4.79	9.47	8.542	10.40		
4.80	9.47	8.560	10.45		
4.81	9.47	8.578	10.50		
4.82	9.47	8.596	10.55		
4.83	9.47	8.614	10.60		
4.84	9.47	8.632	10.65		
4.85	9.47	8.650	10.70		
4.86	9.47	8.668	10.75		
4.87	9.47	8.686	10.80		
4.88	9.47	8.704	10.85		
4.89	9.47	8.722	10.90		
4.90	9.47	8.740	10.95		
4.91	9.47	8.758	11.00		
4.92	9.47	8.776	11.05		
4.93	9.47	8.794	11.10		
4.94	9.47	8.812	11.15		
4.95	9.47	8.830	11.20		
4.96	9.47	8.848	11.25		
4.97	9.47	8.866	11.30		
4.98	9.47	8.884	11.35		
4.99	9.47	8.902	11.40		
5.00	9.47	8.920	11.45		
5.01	9.47	8.938	11.50		
5.02	9.47	8.956	11.55		
5.03	9.47	8.974	11.60		
5.04	9.47	8.992	11.65		
5.05	9.47	9.010	11.70		
5.06	9.47	9.028	11.75		
5.07	9.47	9.046	11.80		
5.08	9.47	9.064	11.85		
5.09	9.47	9.082	11.90		
5.10	9.47	9.100	11.95		
5.11	9.47	9.118	12.00		
5.12	9.47	9.136	12.05		
5.13	9.47	9.154	12.10		
5.14	9.47	9.172	12.15		
5.15	9.47	9.190	12.20		
5.16	9.47	9.208	12.25		
5.17	9.47	9.226	12.30		
5.18	9.47	9.244	12.35		
5.19	9.47	9.262	12.40		
5.20	9.47	9.280	12.45		
5.21	9.47	9.298	12.50		
5.22	9.47	9.316	12.55		
5.23	9.47	9.334	12.60		
5.24	9.47	9.352	12.65		
5.25	9.47	9.370	12.70		
5.26	9.47	9.388	12.75		
5.27	9.47	9.406	12.80		
5.28	9.47	9.424	12.85		
5.29	9.47	9.442	12.90		
5.30	9.47	9.460	12.95		
5.31	9.47	9.478	13.00		
5.32	9.47	9.496	13.05		
5.33	9.47	9.514	13.10		
5.34	9.47	9.532	13.15		
5.35	9.47	9.550	13.20		
5.36	9.47	9.568	13.25		
5.37	9.47	9.586	13.30		
5.38	9.47	9.604	13.35		
5.39	9.47	9.622	13.40		
5.40	9.47	9.640	13.45		
5.41	9.47	9.658	13.50		
5.42	9.47	9.676	13.55		
5.43	9.47	9.694	13.60		
5.44	9.47	9.712	13.65		
5.45	9.47	9.730	13.70		
5.46	9.47	9.748	13.75		
5.47	9.47	9.766	13.80		
5.48	9.47	9.784	13.85		
5.49	9.47	9.802	13.90		
5.50	9.47	9.820	13.95		
5.51	9.47	9.838	14.00		
5.52	9.47	9.856	14.05		
5.53	9.47	9.874	14.10		
5.54	9.47	9.892	14.15		
5.55	9.47	9.910	14.20		
5.56	9.47	9.928	14.25		
5.57	9.47	9.946	14.30		
5.58	9.47	9.964	14.35		
5.59	9.47	9.982	14.40		
5.60	9.47	9.999	14.45		
5.61	9.47	10.016	14.50		
5.62	9.47	10.034	14.55		
5.63	9.47	10.052	14.60		
5.64	9.47	10.070	14.65		
5.65	9.47	10.088	14.70		
5.66	9.47	10.106			



0 1000 2000

W.O. WASH OUT

S.A.V. SINGLE AIR VALVE

D.A.V. DOUBLE AIR VALVE

TRENCH BOTTOM LEVELS

GROUND LEVELS

HORIZONTAL SCALE - 1:100

VERTICAL SCALE - 1:10

NOTES

- All dimensions are in mm unless otherwise specified.
- All dimensions to be read off and not scaled.
- Any discrepancies with dimensions to be notified to the Engineer before commencement of work.
- All water pipes are HDPE and Steel pipes
- A nominal minimum cover for all pipes shall be 0.6m
- Marker posts shall be provided along pipelines at every 200m, except where they follow permanent roads
- Fire hydrants are indicated as FH



COAST WATER WORKS DEVELOPMENT AGENCY

Checked, approved & signed for TECHNICAL SERVICES MANAGER by:

ENG. JAMES MUTURI
Registered Engineer's No.

Job no.: 22/01 Job title:
SUPPLY OF WATER TO NGOMENI FISH LANDING SITE

Drawing No.: FLS-MHG-23 Drawing Title:
MJANA HERI TO NGOMENI PIPELINE: LONGITUDINAL SECTIONS AND PROFILES

Revision: Members:
Scale: 1:100 Date: January 2022
Designed by: Eng. Muturi Checked by: Eng. Kanui
Drawn by: Eng. Muturi Approved by:

