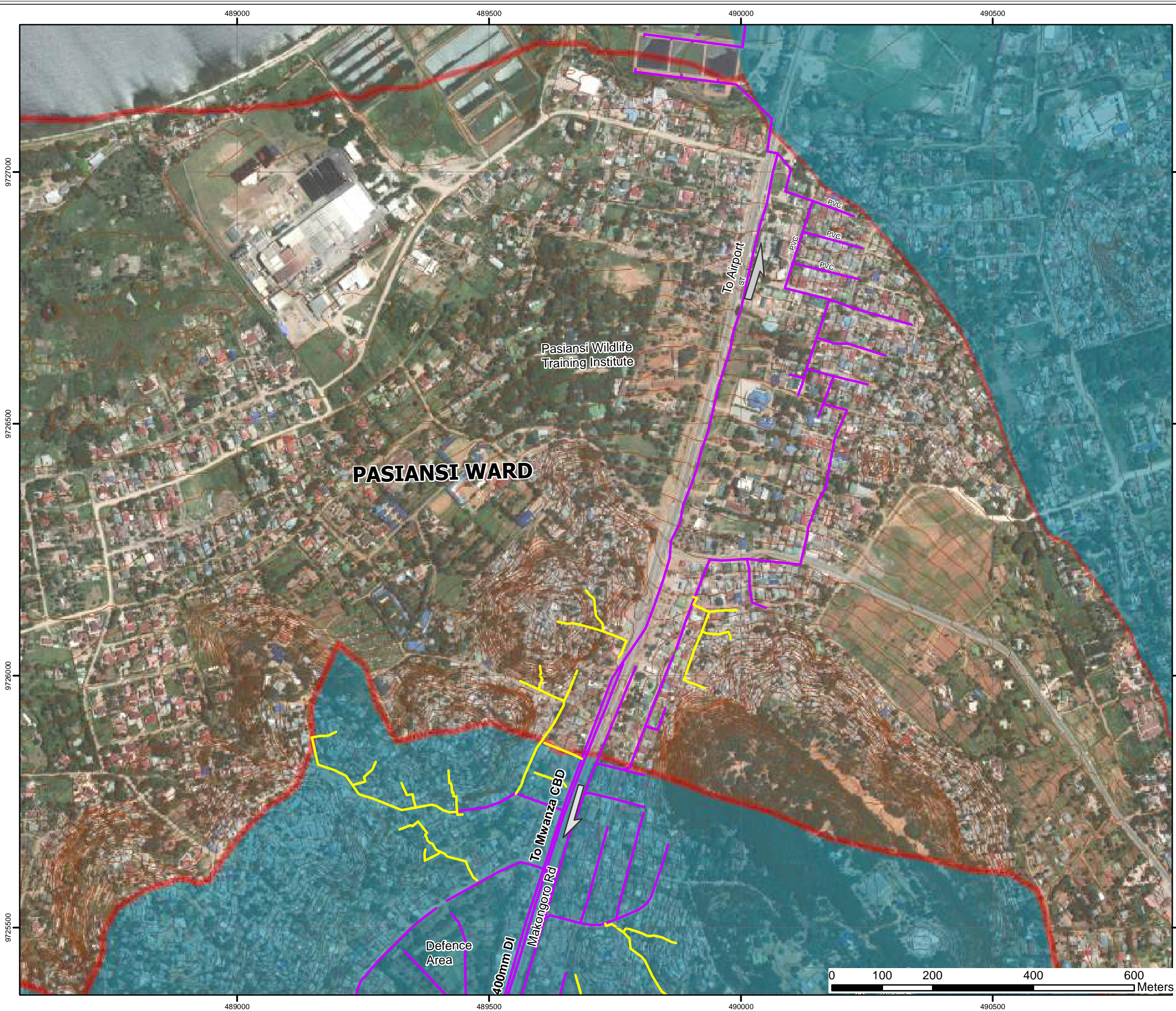


PASIANSI



Layout Plan of Existing and Proposed Sewers Pasiansi Ward



Legend

- Contours 2m Intervals
- Existing Sewers
- Proposed Sewers [For Design and Construction]
- Administrative (Ward Boundary)

REVISIONS	SIGN	DATE	APPROVED
	BY		
	CHECKED		
Client: EAST AFRICAN COMMUNITY (EAC) LAKE VICTORIA BASIN COMMISSION (LVBC) P.O. BOX 1510 - 40100 KISUMU, KENYA TEL: +254 57 202 6344			
PROJECT IMPLEMENTATION CONSULTANTS (PIC): JOINT VENTURE CES CONSULTING ENGINEERS SALZGITTER GmbH HAMBURGER STRASSE 227 38114 BRAUNSCHWEIG, GERMANY E-MAIL: info@ces.de TEL: +49 531 - 31704-0 AKUT PARTNER WATTSTRASSE 10 13355 BERLIN, GERMANY TEL: +49 30 8145460 - 0 FAX: +49 30 8145460 - 19 MANGAT I.B. PATEL (MIBP) LIMITED P.O BOX 48674,00100-GPO, NAIROBI, KENYA E-MAIL: mibp.nairobi@mibp.co.ke TEL: +254-2-2710500			
PROJECT NAME: LAKE VICTORIA BASIN INTEGRATED WATER RESOURCES MANAGEMENT PROGRAMME (LVB-IWRMP)			
CONTRACT TITLE: MWANZA SEWER CONNECTION UPGRADE			
INFILL SEWERS			
DRAWING TITLE: Layout Plan of Existing and Proposed Sewers Pasiansi Ward			
Designed by: V.K	Drawn by: G.O.N		
Checked by: NJN	Approved by: R.S.R		
Scale: A3-: AS SHOWN	Date: MARCH 2024		
DRG No. M394(j)/MWZ/PS/01	REV		

SEWER PS-IS-1

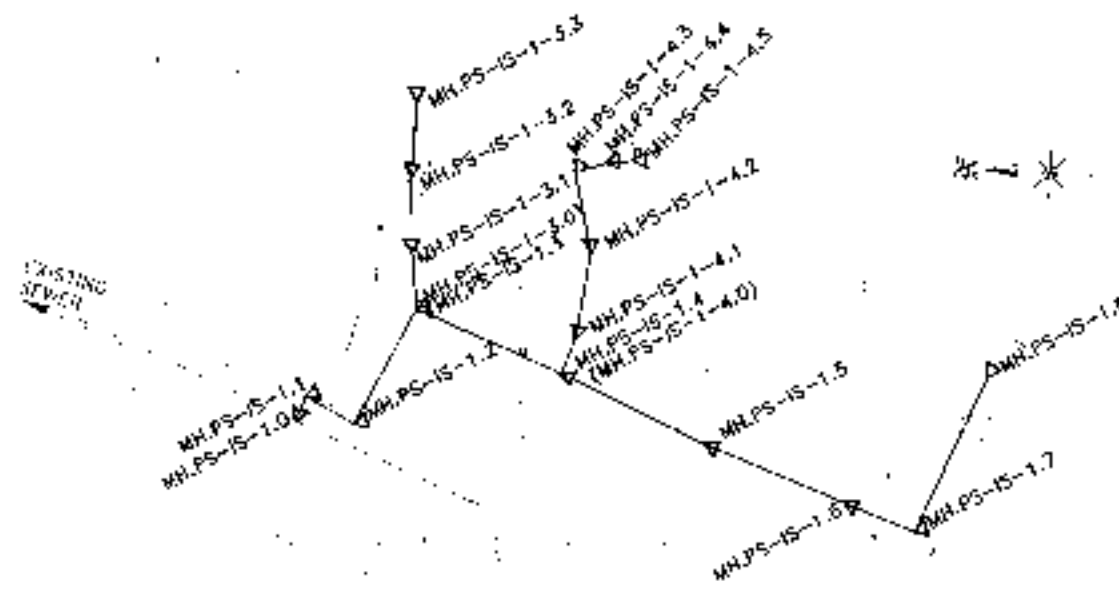
MANHOLE COORDINATES		
MANHOLE NO.	NORTHING	EASTING
MH.PS-IS-1.0	4726158.543	485929.744
MH.PS-IS-1.1	4726158.221	485930.920
MH.PS-IS-1.2	4726158.694	485926.127
MH.PS-IS-1.3	4726158.518	485937.157
MH.PS-IS-1.4	4726158.465	485937.210
MH.PS-IS-1.5	4726158.401	485938.800
MH.PS-IS-1.6	4726158.580	485938.550
MH.PS-IS-1.7	4726158.697	485939.744
MH.PS-IS-1.8	4726158.845	485939.430

SEWERS PS-IS-1-4

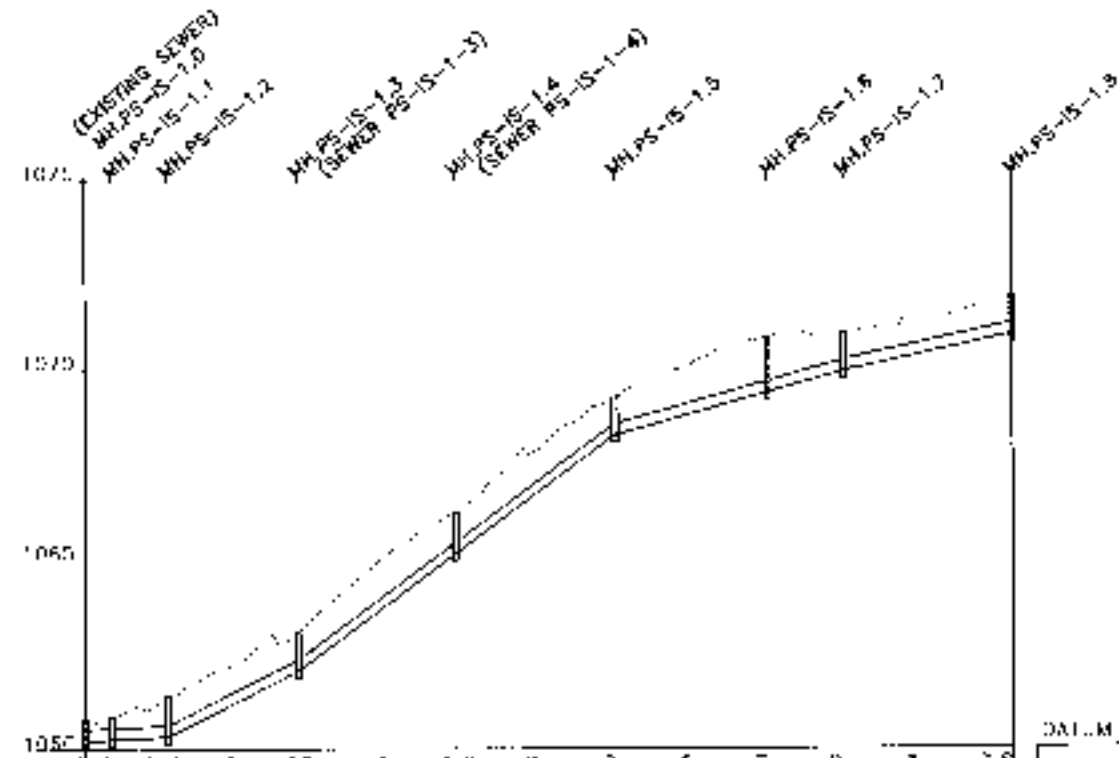
MANHOLE COORDINATES		
MANHOLE NO.	NORTHING	EASTING
MH.PS-IS-1-4.0	4726167.545	486228.720
MH.PS-IS-1-4.1	4726166.327	486152.750
MH.PS-IS-1-4.2	4726160.912	486154.652
MH.PS-IS-1-4.3	4726160.131	486155.524
MH.PS-IS-1-4.4	4726170.737	486175.595
MH.PS-IS-1-4.5	4726177.812	486174.100

SEWERS PS-IS-1-3

MANHOLE COORDINATES		
MANHOLE NO.	NORTHING	EASTING
MH.PS-IS-1-3.1	4726157.537	485927.127
MH.PS-IS-1-3.2	4726158.692	485935.020
MH.PS-IS-1-3.3	4726158.124	485937.470
MH.PS-IS-1-3.4	4726158.907	485941.220

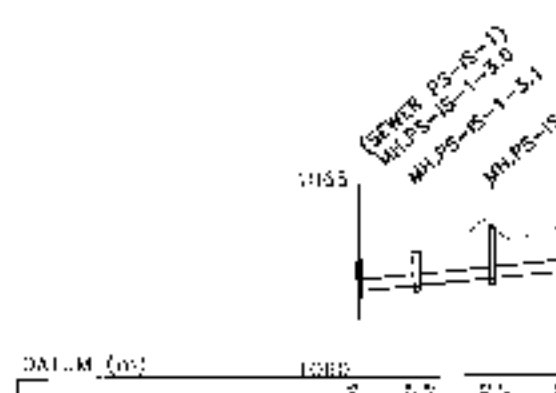


SEWERS PS-IS-1, PS-IS-1-3 & PS-IS-1-4 PLAN



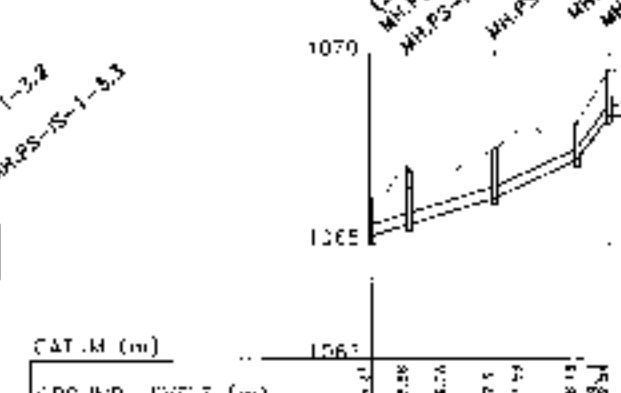
DATE (m)		SEWER PS-IS-1																
GROUND LEVELS (m)		1052.44	1052.45	1052.47	1052.48	1052.49	1052.50	1052.51	1052.52	1052.53	1052.54	1052.55	1052.56	1052.57	1052.58	1052.59	1052.60	
TYPE OF PIPE AND SIZE		200mm DIA. 545 DWC HDPE PIPE (SM 4)																
TYPE OF BED AND SURROUND		TYPE 'B'																
INVERT LEVELS (m)		1052.38	1052.37	1052.36	1052.35	1052.34	1052.33	1052.32	1052.31	1052.30	1052.29	1052.28	1052.27	1052.26	1052.25	1052.24	1052.23	1052.22
GRADIENT		1.75	1.70		1.74			0.25									1.40	
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)		0.06	0.08	0.11	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37	0.39
DISTANCE IN KILOMETERS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SEWER PS-IS-1 LONGITUDINAL SECTION



DATE (m)		SEWER PS-IS-1-3				
GROUND LEVELS (m)		1055.00	1055.01	1055.02	1055.03	1055.04
TYPE OF PIPE AND SIZE		200mm DIA. 545 DWC HDPE PIPE (SM 4)				
TYPE OF BED AND SURROUND		TYPE 'B'				
INVERT LEVELS (m)		1054.92	1054.91	1054.90	1054.89	1054.88
GRADIENT		1.10				
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)		0.08	0.10	0.12	0.14	0.16
DISTANCE IN KILOMETERS		0.0000	0.0000	0.0000	0.0000	0.0000

SEWER PS-IS-1-3 LONGITUDINAL SECTION



DATE (m)		SEWER PS-IS-1-4					
GROUND LEVELS (m)		1060.00	1060.01	1060.02	1060.03	1060.04	1060.05
TYPE OF PIPE AND SIZE		200mm DIA. 545 DWC HDPE PIPE (SM 4)					
TYPE OF BED AND SURROUND		TYPE 'B'					
INVERT LEVELS (m)		1059.92	1059.91	1059.90	1059.89	1059.88	1059.87
GRADIENT		1.20					
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)		0.08	0.10	0.12	0.14	0.16	0.18
DISTANCE IN KILOMETERS		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SEWER PS-IS-1-4 LONGITUDINAL SECTION

NOTES:

1. THE ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SEWER SYSTEM.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE SEWER SYSTEM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEWER SYSTEM.

LEGEND - PLAN

EXISTING FEATURES

- EXISTING SEWER
- EXISTING PIPE
- EXISTING DRAINAGE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING UTILITY
- EXISTING OBSTACLE
- EXISTING TRENCH
- EXISTING MANHOLE
- EXISTING VALVE
- EXISTING STRUCTURE

PROPOSED FEATURES

- PROPOSED SEWER
- PROPOSED PIPE
- PROPOSED DRAINAGE
- PROPOSED ROAD
- PROPOSED FENCE
- PROPOSED UTILITY
- PROPOSED OBSTACLE
- PROPOSED TRENCH
- PROPOSED MANHOLE
- PROPOSED VALVE
- PROPOSED STRUCTURE

LEGEND - PROFILE

EXISTING FEATURES

- GROUND LEVEL
- EXISTING SEWER
- EXISTING PIPE
- EXISTING DRAINAGE
- EXISTING ROAD
- EXISTING FENCE
- EXISTING UTILITY
- EXISTING OBSTACLE
- EXISTING TRENCH
- EXISTING MANHOLE
- EXISTING VALVE
- EXISTING STRUCTURE

PROPOSED FEATURES

- PROPOSED SEWER
- PROPOSED PIPE
- PROPOSED DRAINAGE
- PROPOSED ROAD
- PROPOSED FENCE
- PROPOSED UTILITY
- PROPOSED OBSTACLE
- PROPOSED TRENCH
- PROPOSED MANHOLE
- PROPOSED VALVE
- PROPOSED STRUCTURE

CLIENT:

WATER AND SEWERAGE BOARD
 WASHINGTON
 1111 1111 1111

DESIGNED BY:

DESIGN CONSULTING ENGINEERS
 1111 1111 1111

DATE:

11/11/11

PROJECT NAME:

LAKE VICTORIA BASIN INTEGRATED WATER RESOURCES MANAGEMENT PROGRAMME (LVB-IWRMP)

CONTRACT TITLE:

WAVANJA SEWER CONNECTION UPGRADE

INTENT:

INTENT SEWERS PASIANI WARD

DRAWING TITLE:

SEWERS PS-IS-1, PS-IS-1-3 & PS-IS-1-4 PLAN AND LONGITUDINAL SECTIONS

SHEET 11 OF 11

DATE: 11/11/11
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

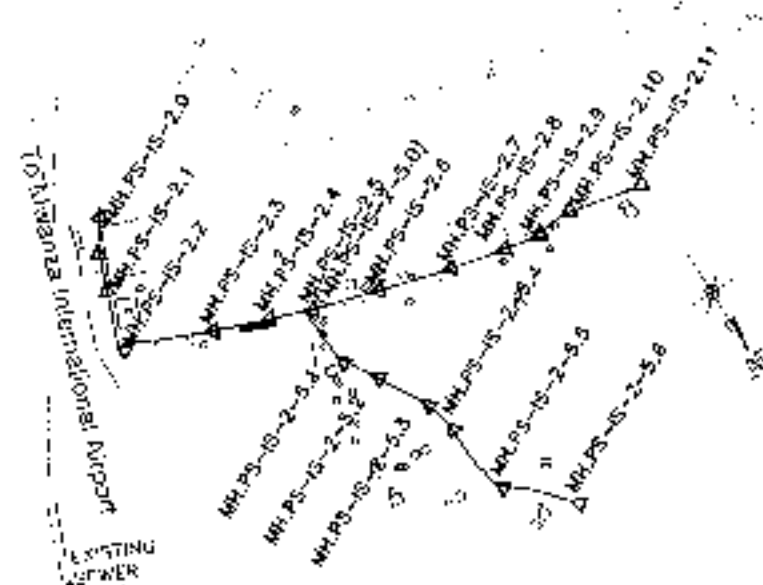
ORGN: N3940/MWZ/PS02

SEWER PS-IS-2

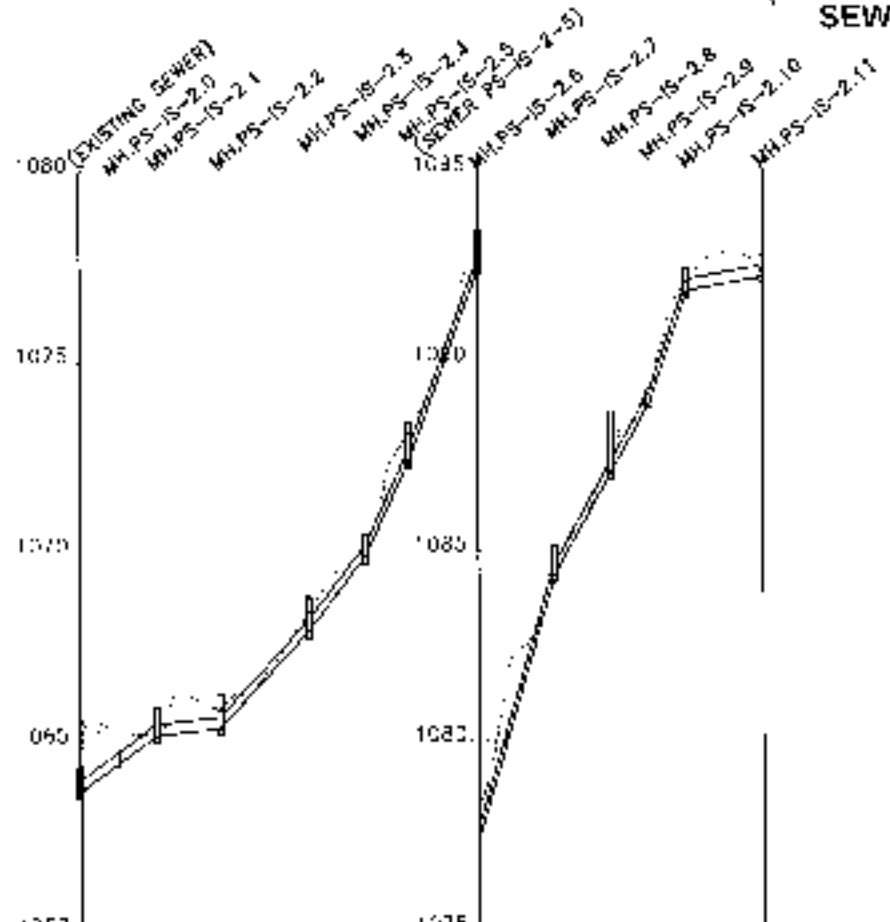
MARKET COORDINATES		
RFT. NO.	NORTHING	EASTING
MH,PS-2-1	472055.000	487227.750
MH,PS-2-2	472055.000	487227.750
MH,PS-2-3	472055.000	487227.750
MH,PS-2-4	472055.000	487227.750
MH,PS-2-5	472055.000	487227.750
MH,PS-2-6	472055.000	487227.750
MH,PS-2-7	472055.000	487227.750
MH,PS-2-8	472055.000	487227.750
MH,PS-2-9	472055.000	487227.750
MH,PS-2-10	472055.000	487227.750
MH,PS-2-11	472055.000	487227.750

SEWER PS-IS-2-5

MARKET COORDINATES		
RFT. NO.	NORTHING	EASTING
MH,PS-2-5	472055.000	487227.750
MH,PS-2-6	472055.000	487227.750
MH,PS-2-7	472055.000	487227.750
MH,PS-2-8	472055.000	487227.750
MH,PS-2-9	472055.000	487227.750
MH,PS-2-10	472055.000	487227.750
MH,PS-2-11	472055.000	487227.750

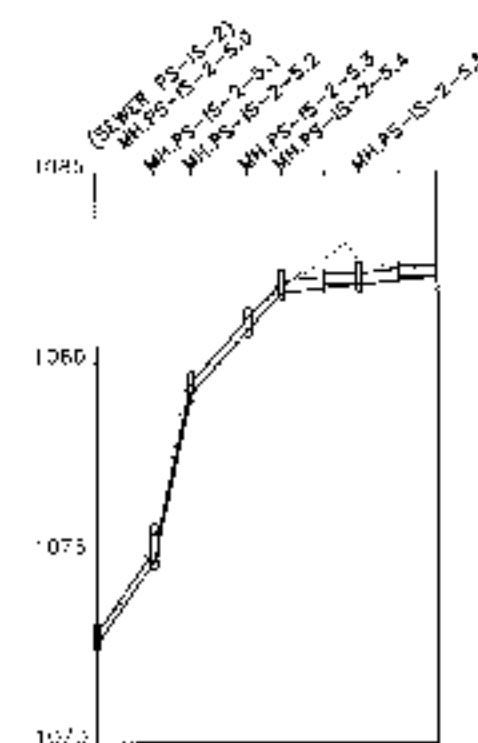


SEWERS PS-IS-2 & PS-IS-2-5 PLAN



DATUM (m)	0650	0655	0660	0665	0670	0675	0680	0685	0690	0695	0700	0705
GROUND LEVELS (m)	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00
TYPE OF PIPE AND SIZE	100mm HDPE PIPE (DN 100) BUTT FUSION JOINTING											
TYPE OF DCC AND SURROUND	TYPE 'D'											
INVERT LEVELS (m)	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00	1065.00
GRADIENT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DISTANCE IN KILOMETERS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

SEWER PS-IS-2 LONGITUDINAL SECTION



DATUM (m)	0700	0705	0710	0715	0720	0725	0730	0735	0740	0745	0750	
GROUND LEVELS (m)	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	
TYPE OF PIPE AND SIZE	100mm HDPE PIPE (DN 100) BUTT FUSION JOINTING											
TYPE OF DCC AND SURROUND	TYPE 'D'											
INVERT LEVELS (m)	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	1070.00	
GRADIENT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
DEPTH FROM GROUND LEVEL TO INVERT LEVEL (m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DISTANCE IN KILOMETERS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

SEWER PS-IS-2-5 LONGITUDINAL SECTION

NOTES

1. THE PLAN AND PROFILE SHOWN ARE FOR INFORMATION ONLY.
2. THE PLAN AND PROFILE SHOWN ARE FOR INFORMATION ONLY.
3. THE PLAN AND PROFILE SHOWN ARE FOR INFORMATION ONLY.
4. THE PLAN AND PROFILE SHOWN ARE FOR INFORMATION ONLY.
5. THE PLAN AND PROFILE SHOWN ARE FOR INFORMATION ONLY.

LEGEND - PLAN

EXISTING FEATURES:

- EXISTING SEWER
- EXISTING MANHOLE
- EXISTING ROAD
- EXISTING POWER LINE
- EXISTING WATER MAIN
- EXISTING TELEPHONE LINE
- EXISTING GAS MAIN
- EXISTING DRAINAGE
- EXISTING FENCE
- EXISTING TREE
- EXISTING BUILDING

PROPOSED FEATURES:

- PROPOSED SEWER
- PROPOSED MANHOLE
- PROPOSED ROAD
- PROPOSED POWER LINE
- PROPOSED WATER MAIN
- PROPOSED TELEPHONE LINE
- PROPOSED GAS MAIN
- PROPOSED DRAINAGE
- PROPOSED FENCE
- PROPOSED TREE
- PROPOSED BUILDING

LEGEND - PROFILE

EXISTING FEATURES:

- EXISTING GROUND LEVEL
- EXISTING SEWER INVERT
- EXISTING MANHOLE

PROPOSED FEATURES:

- PROPOSED SEWER INVERT
- PROPOSED MANHOLE

PROJECT IMPLEMENTATION CONSULTANTS (P.C.)

AKIAT

MIBI

PROJECT NAME:
LAKE VICTORIA BASIN INTEGRATED WATER RESOURCES MANAGEMENT PROGRAMME (LVR-IMRMP)

LOCATION (P.C.):
MWANZA SEWER CONNECTION UPGRADE

INFIL SEWERS PASIANIWARD

DRAWING TITLE:
SEWERS PS-IS-2 & PS-IS-2-5 PLAN AND LONGITUDINAL SECTIONS

SHEET 1 OF 1

Drawn by: [Name] Date: [Date]
Checked by: [Name] Date: [Date]
Scale: 1:1000 Date: [Date]
URD No. MIBI/IMRMP/PSIS03