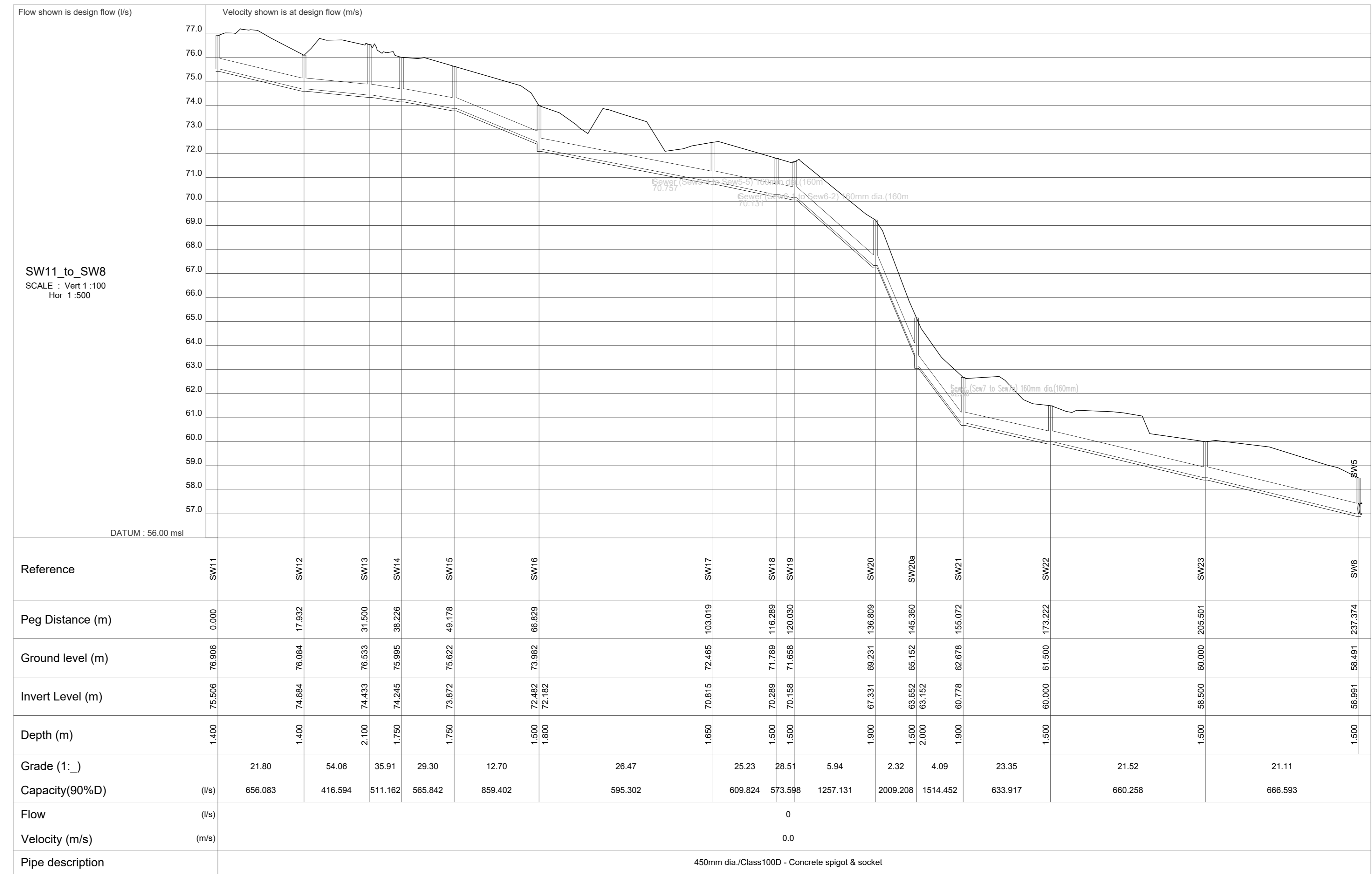


SW1 to SW10
SCALE: Vert 1:100
Hor 1:500

Reference	SW1	SW2	SW3	SW4	SW5	SW8	SW7	SW8	SW9	SW10
Peg Distance (m)	0.000	18.699	20.890	36.654	56.247	92.571	121.100	134.721	168.083	177.131
Ground level (m)	74.099	70.184	69.749	69.750	68.687	68.481	51.108	49.717	46.000	45.297
Invert Level (m)	72.500	68.684	68.249	68.000	66.937	66.991	49.698	48.217	44.500	43.607
Depth (m)	1.500	1.500	1.500	1.750	1.750	1.500	1.500	1.500	1.500	1.500
Grade (1:..)		4.79	12.14	51.15	18.43		3.91	9.20	8.98	23.01
Capacity(90%D)	(l/s)	1399.650	878.955	428.254	713.479	1578.419	1548.617	1009.978	1022.384	638.499
Flow	(l/s)				0					
Velocity (m/s)	(m/s)				0.0					
Pipe description	450mm dia./Class1000 - Concrete spigot & socket									

Reference	Y	X	IL in / out	DEPTH in / out	Mhtype
SW1	5898.252	3313338.332	72.569	72.569	1.500 1.500 1
SW2	5916.003	3313343.917	68.684	68.684	1.500 1.500 1
SW3	5920.594	3313341.328	68.249	68.249	1.500 1.500 1
SW4	5923.617	3313328.906	68.000	68.000	1.750 1.750 1
SW5	5928.243	3313309.877	66.937	66.937	1.750 2.050 1
SW8	5959.266	3313290.986	56.991	56.991	1.500 1.500 1
SW7	5983.635	3313271.149	48.698	48.698	1.500 1.500 1
SW8	5996.448	3313271.527	48.217	48.217	1.500 1.500 1
SW9	6025.684	3313287.597	44.500	44.000	1.500 2.000 1
SW10	6033.796	3313291.621	43.607	43.607	1.650 1.650 1



SW11 to SW8
SCALE: Vert 1:100
Hor 1:500

Reference	SW11	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19	SW20	SW20a	SW21	SW22	SW23	SW8
Peg Distance (m)	0.000	17.632	31.500	38.226	48.178	66.829	103.019	136.809	145.960	155.072	173.222	205.601	237.374		
Ground level (m)	76.906	76.084	76.533	75.995	75.622	73.982	72.465	69.231	65.152	62.678	61.500	60.000	58.800	56.891	
Invert Level (m)	75.506	74.684	74.433	74.245	73.872	72.182	70.815	67.331	63.852	61.162	60.000	58.800	56.891		
Depth (m)	1.400	1.400	2.100	1.750	1.750	1.800	1.650	1.900	1.650	1.500	1.500	1.500	1.500	1.500	1.500
Grade (1:..)		21.80	54.06	35.91	29.30	12.70	26.47	25.23	28.51	5.94	2.32	4.09	23.35	21.52	21.11
Capacity(90%D)	(l/s)	656.083	416.594	511.162	565.842	859.402	595.302	609.824	573.558	1257.131	2009.208	1514.452	633.917	660.258	666.593
Flow	(l/s)														
Velocity (m/s)	(m/s)														
Pipe description	450mm dia./Class1000 - Concrete spigot & socket														

Reference	Y	X	IL in / out	DEPTH in / out	Mhtype
SW11	5861.927	3313352.807	75.506	75.506	1.400 1.400 1
SW12	5876.517	3313346.000	74.684	74.684	1.400 1.400 1
SW13	5895.324	3313334.263	74.433	74.433	2.100 2.100 1
SW14	5888.567	3313328.371	74.245	74.245	1.750 1.750 1
SW15	5891.119	3313317.720	73.872	73.872	1.750 1.750 1
SW16	5895.307	3313303.573	72.462	72.182	1.500 1.900 1
SW17	5887.353	3313265.268	70.815	70.815	1.650 1.650 1
SW18	5881.277	3313253.471	70.289	70.289	1.500 1.500 1
SW19	5879.579	3313250.137	70.158	70.158	1.500 1.500 1
SW20	5882.084	3313233.546	67.331	67.331	1.900 1.900 1
SW20a	5900.634	3313233.657	63.852	63.152	1.500 2.000 1
SW21	5900.345	3313233.783	60.778	60.778	1.900 1.900 1
SW22	5912.916	3313246.875	60.000	60.000	1.500 1.500 1
SW23	5937.824	3313287.498	58.800	58.800	1.500 1.500 1
SW8	5959.266	3313290.986	56.991	56.991	1.500 1.500 1

I, the undersigned, as the owner of the copyright in the plan on which this endorsement appears, in terms of section 21 of the Copyright Act, 1978 (Act 98 of 1978), by virtue of the fact that, (i) I am the author of the plan, or (ii) I am the employer of the author of the plan which was prepared by him in the course and scope of his duties, (delete whichever is inapplicable) do hereby assign such copyright for all purposes to the Durban North and South Central Local Councils.

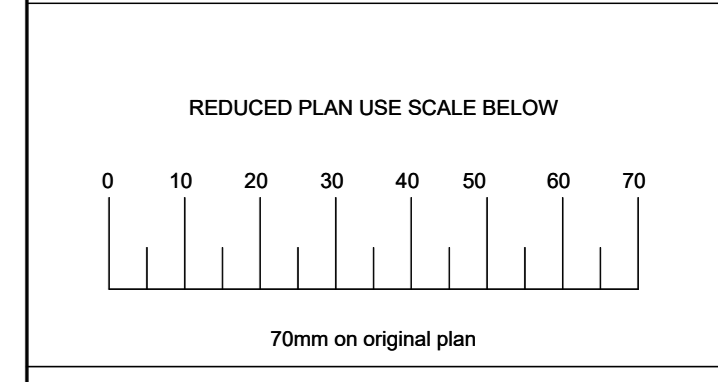
SIGNATURE _____ DATE _____
FULL NAMES _____
ADDRESS _____

- NOTE
THE DEVELOPER will be responsible for:
1. Completing an undertaking form to indemnify the Councils against possible claims that may arise as a result of the work being undertaken in servitudes and/or road reserves.
 2. Obtaining the prior approval of the property owner(s) in whose favour the servitude is registered and also in the case of all servitudes, of the property owner(s) over whose land the servitude crosses.
 3. Giving 21(we) day's notice of commencement of work within a servitude, to the property owner(s) over whose land the servitude crosses.
 4. Ensuring that the existing conditions within a servitude are restored to the satisfaction of the property owner(s) on completion of the work.

- Notes
1. The approval of this plan (drawing) shall not in any way imply the acceptance by the Durban North and South Central Local Councils of any responsibility or liability for the stability or efficacy of any structure or design shown thereon.
 2. The developer shall comply with the latest edition of the subdivision bylaws, a copy of which may be obtained from Practice - Hat Services (Pty) Ltd, 15 Albert Road Westmead.
 3. All works are to be constructed in accordance with the following Durban North and South Central Local Council's Drawings:

LEGEND
EXISTING UNDERGROUND SERVICES ARE AS SHOWN BELOW.

- SEWERS AND M/T/S
- STORM WATER DRAINS AND M/T/S
- WATER MAINS AND VALVES
- ELECTRICITY CABLES
- TELECOM CABLES
- OIL PIPELINES



SLB CONSULTING
Civil and Structural Engineers
Project Managers and Community Based Consultants
209 LAMUNGA ROCKS DRIVE
LAMUNGA ROCKS
4001
TEL: 563 8180 FAX: 563 7912

Revision	Date	Description

NOTE: No construction work to commence until land and servitude acquisitions have been completed.
Acquisitions completed

SERVICE	DATE	SIGNATURE
S.W. DRAINS		
SEWERS		
WATER MAINS		
G.P.O. CABLES		
ELECTRIC CABLES		
TELECOM CABLES		
E.O.C. CABLES		
OIL PIPE LINE		

NOTE: Only underground services affected by new construction work are shown.
Care must be taken during excavation for road foundations, foundations, in-situ concrete structures, services such as sewers, drains, cables, water mains and connections. Whenever possible these must be re-located to avoid work problems.

Contract No **1H-27952**

Project Title
**ENGINEERING INFRASTRUCTURE
LAMONTVILLE MINISTERIAL
HOUSING PROJECT
GAMBUSHE PLACE**

Drawing Title
**STORMWATER
LONGITUDINAL
SECTION
PLAN**

Designed	Date	Checked	Drawn
S. RAJAH	13/02/2019	S. RAJAH	P. MOODLEY

CITY ENGINEER'S SERVICE UNIT
APPROVED BY _____ SIGNATURE _____ DATE _____
CHECKED BY: _____
MANAGER: DEV. ENG. _____
DIRECTOR: D. & C.E. _____
E. D. I.C.E. _____

ENGINEERING PLAN NO.
Drawing No **GAM1-03** Sheet 01
of 03 Sheets

FOR TENDER PURPOSES ONLY