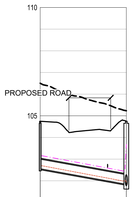
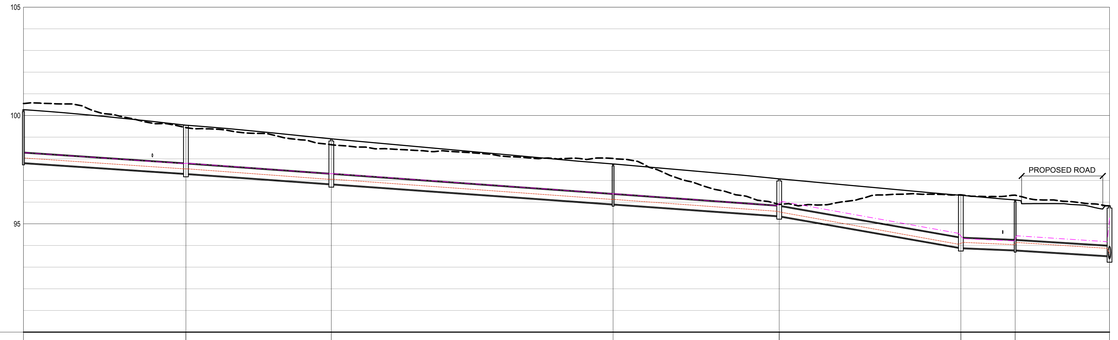


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 100.000

NODE		SW2.2-1	SW2.1-7
NODE TYPE		KERB INLET	MANHOLE
DISTANCE (m)		0.000	19.871
FINAL LEVEL		104.175	104.175
DEPTH TO INVERT			
PIPE INVERT LEVEL		102.538	101.837
SLOPE / LENGTH		3.62% 1:27.6 19.87m	
HYDRAULICS	DESIGN Q(m3/s)	0.14	
	DESIGN V(m/s)	3.0	
	MAX. (0.8D) Q(m3/s)	0.56	
	MAX. (0.8D) V(m/s)	4.2	
PIPE SPECIFICATION		450mm Ø SPIGOT & SOCKET	

LONGSECTION
NETWORK 2 _ SW2.2-1

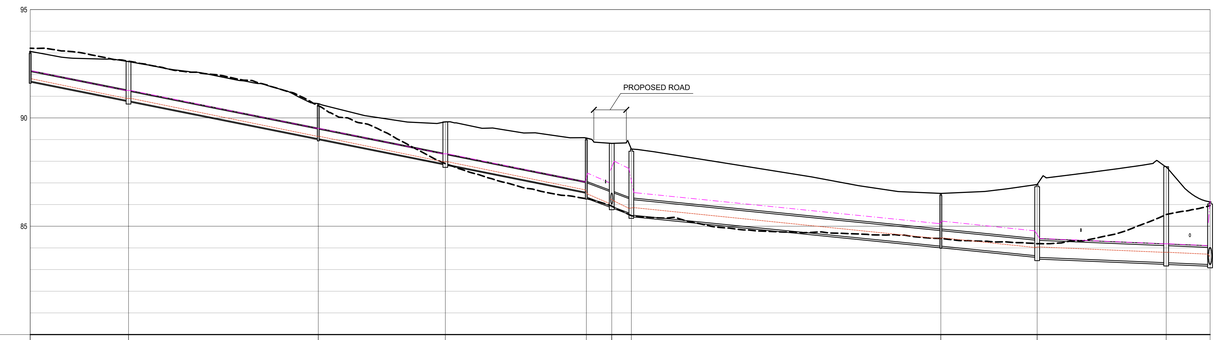


SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 90.000

NODE		SW2.3-1	SW2.3-2	SW2.3-3	SW2.3-4	SW2.3-5	SW2.3-6	SW2.3-7	SW2.1-11	
NODE TYPE		KERB INLET	JUNCTION BOX	MANHOLE	KERB INLET	MANHOLE	JUNCTION BOX	KERB INLET	MANHOLE	
DISTANCE (m)		0.000	37.466	71.044	136.067	174.400	216.311	228.949	250.021	
FINAL LEVEL		100.27	99.55	98.92	97.76	97.07	96.32	96.10	95.83	
DEPTH TO INVERT							1.833			
PIPE INVERT LEVEL		97.820	97.320 97.320	96.940 96.940	95.912 95.912	95.564 95.564	93.894 93.894	93.769 93.769	93.617	
SLOPE / LENGTH			1.33% 1:75.0 37.50m	1.43% 1:70.0 33.55m	1.43% 1:70.0 65.02m	1.43% 1:70.0 38.33m	3.51% 1:28.5 41.91m	0.83% 1:120.0 12.54m	1.25% 1:80.1 21.77m	
HYDRAULICS	DESIGN Q(m3/s)		0.16	0.16	0.16	0.16	0.16	0.16	0.32	
	DESIGN V(m/s)		2.2	2.3	2.3	2.3	3.1	1.8	2.4	
	MAX. (0.8D) Q(m3/s)		0.34	0.35	0.35	0.35	0.55	0.27	0.33	
	MAX. (0.8D) V(m/s)		2.5	2.6	2.6	2.6	4.1	2.0	2.5	
PIPE SPECIFICATION			450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	

LONGSECTION
NETWORK 2 _ SW2.3-1



SCALES:
Horizontal 1:500
Vertical 1:100

DATUM 80.000

NODE		SW2.4-1	SW2.4-2	SW2.4-3	SW2.4-4	SW2.4-5	SW2.4-6	SW2.4-7	SW2.4-8	SW2.4-9	SW2.4-10	SW2.1-16		
NODE TYPE		KERB INLET	JUNCTION BOX	KERB INLET	JUNCTION BOX	KERB INLET	JUNCTION BOX	MANHOLE	KERB INLET	MANHOLE	JUNCTION BOX	MANHOLE		
DISTANCE (m)		0.000	22.687	66.476	85.790	126.328	134.196	138.715	215.135	223.360	262.134	272.261		
FINAL LEVEL		93.07	92.60	90.66	89.82	89.07	88.83	88.56	86.52	86.63	87.75	86.13		
DEPTH TO INVERT														
PIPE INVERT LEVEL		91.898	90.790 90.790	89.039 89.039	87.886 87.886	86.585 86.585	85.912 85.912	85.574 85.515	84.080 84.080	83.654 83.654	83.315 83.315	83.231		
SLOPE / LENGTH			4.00% 1:25.0 22.69m	4.00% 1:25.0 43.79m	4.00% 1:25.0 29.31m	4.00% 1:25.0 32.54m	7.48% 1:13.4 5.87m	7.48% 1:13.4 8.52m	2.01% 1:49.8 71.42m	2.01% 1:49.8 22.22m	0.83% 1:120.0 29.77m	0.83% 1:119.9 10.13m		
HYDRAULICS	DESIGN Q(m3/s)		0.08	0.08	0.08	0.08	0.22	0.71	0.71	0.87	0.87	0.87		
	DESIGN V(m/s)		2.7	2.7	2.7	2.7	4.3	6.0	3.7	3.9	2.8	2.8		
	MAX. (0.8D) Q(m3/s)		0.59	0.59	0.59	0.59	2.28	2.28	1.49	1.49	1.23	1.23		
	MAX. (0.8D) V(m/s)		4.4	4.4	4.4	4.4	7.8	7.8	4.3	4.3	2.9	2.9		
PIPE SPECIFICATION			450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	450mm Ø SPIGOT & SOCKET	675mm Ø SPIGOT & SOCKET	675mm Ø SPIGOT & SOCKET	750mm Ø SPIGOT & SOCKET	750mm Ø SPIGOT & SOCKET	825mm Ø Undefined	825mm Ø Undefined		

LONGSECTION
NETWORK 2 _ SW2.4-1

STORMWATER LEGEND

- EXISTING STORMWATER
- NEW STORMWATER PIPE REFER TO LONG SECTION FOR PIPE TYPE & DIA
- NEW SUB-SOIL LINE
- NEW KERB INLET (DS:X / CP:X / US:X)
  - TRANSITION LENGTH UPSTREAM (US)
  - CATCHPIT LENGTH (CP)
  - TRANSITION LENGTH DOWNSTREAM (DS)
- GI — NEW GRID INLET
- JB — NEW JUNCTION BOX
- MH — NEW MANHOLE
- EXGI — EXISTING GRID INLET
- EXJB — EXISTING JUNCTION BOX
- EXMH — EXISTING MANHOLE

CONSTRUCTION NOTES: STORMWATER

1. CONSTRUCTION:

1.1. ALL CONSTRUCTION, TESTING AND MATERIALS TO COMPLY WITH 1200 SERIES OF SPECIFICATIONS.
1.2. PIPE BEDDING TO BE CLASS B AS PER SABS 1200 LB WITH BEDDING CRADLE OF SELECTED FILL QUALITY.
1.3. PIPES AS PER DRAWING.
1.4. WHERE STORMWATER PIPES CROSS THE SEWER LINE A CLASS 'A' BEDDING MUST BE PROVIDED 2.0m EACH WAY UNDER THE STORMWATER LINE.
1.5. MINIMUM FALLS ON ALL PIPES = 1:100 U.O.S.

2. MATERIALS:

2.1. ALL BRICKS TO BE ENGINEERING UNITS TYPE NFXE-14 AS PER SABS 227 & 285.
2.2. MANHOLE COVERS IN ROADWAYS TO BE STANDARD D.C HEAVY DUTY CAST IRON COVERS AND FRAMES IN ACCORDANCE WITH SABS 558 TYPE 2B. IN WALKWAYS AND WHERE POTENTIAL TRAFFIC CAN OCCUR HEAVY DUTY PRECAST COVERS TO BE USED AND IN ALL OTHER AREAS LIGHT DUTY PRECAST CONCRETE CAN BE USED.
2.3. STORMWATER PIPES TO BE SPIGOT AND SOCKET, CLASS 100D TO BE USED UNDER ROADWAYS AND 50D IN NON-TRAFFICKED AREAS.
2.4. HDPE STORMWATER PIPES TO BE 8KN/m² RING STIFFNESS CORRUGATED PIPES AS SUPPLIED BY MAGNUM OR SIMILAR APPROVED.
2.5. STEP IRONS TO COMPLY WITH SABS 1247.
2.6. DUE TO THE CORROSIVE NATURE OF THE SOIL NO GALVANISED MATERIAL MAY BE USED.

3. NOTE ON STORMWATER CONNECTIONS:

3.1. CONTRACTOR TO LOCATE THE EXSTING STORMWATER PIPES ON SITE AND VERIFY ALL INVERT LEVELS WITH THE ENGINEER PRIOR TO ANY CONSTRUCTION.
3.2. THE EXSTING SERVICES ARE TO ADEQUATELY PROTECTED AND ANY DAMAGE IS TO REPAIRED AT THE CONTRACTORS COST.
3.3. ALL NEW STROMWATER PIPES MUST BE LAID AT AN ANGLE OF NOT LESS THAN 30 DEG. AND NOT MORE THAN 60 DEG. TO THE EXISTING PIPE.
3.4. ALL PIPES MUST BE LAID SOFFIT TO SOFFIT.

LOCALITY PLAN

ISSUE / REVISION

I/R	DATE	DESCRIPTION	ISS BY
3	2021-07-29	BIM 360 REVISION	DVDM
1	2021-06-21	FOR CONSTRUCTION	DVDM
0	2021-04-16	FOR CONSTRUCTION	DVDM

DRAWING STATUS
FOR CONSTRUCTION

STRUXIT PROJECTS

ARCHITECT
COA

CLIENT
DEVMCO

PROJECT
SALTA INFRASTRUCTURE

DRAWING CHECKS

DESIGNED BY:	D. vd MERWE
DRAWN BY:	J. OOSTHUIZEN
CHECKED BY:	D. vd MERWE
APPROVED BY:	D. vd MERWE

DRAWING TITLE
STORMWATER LONGSECTIONS
NETWORK 2 SHEET 2

SCALE As indicated

DRAWING NUMBER	REV
2019-0173-C-5855	3

ISO FULL BLEED A0 (841.00 X 1189.00 MM)