



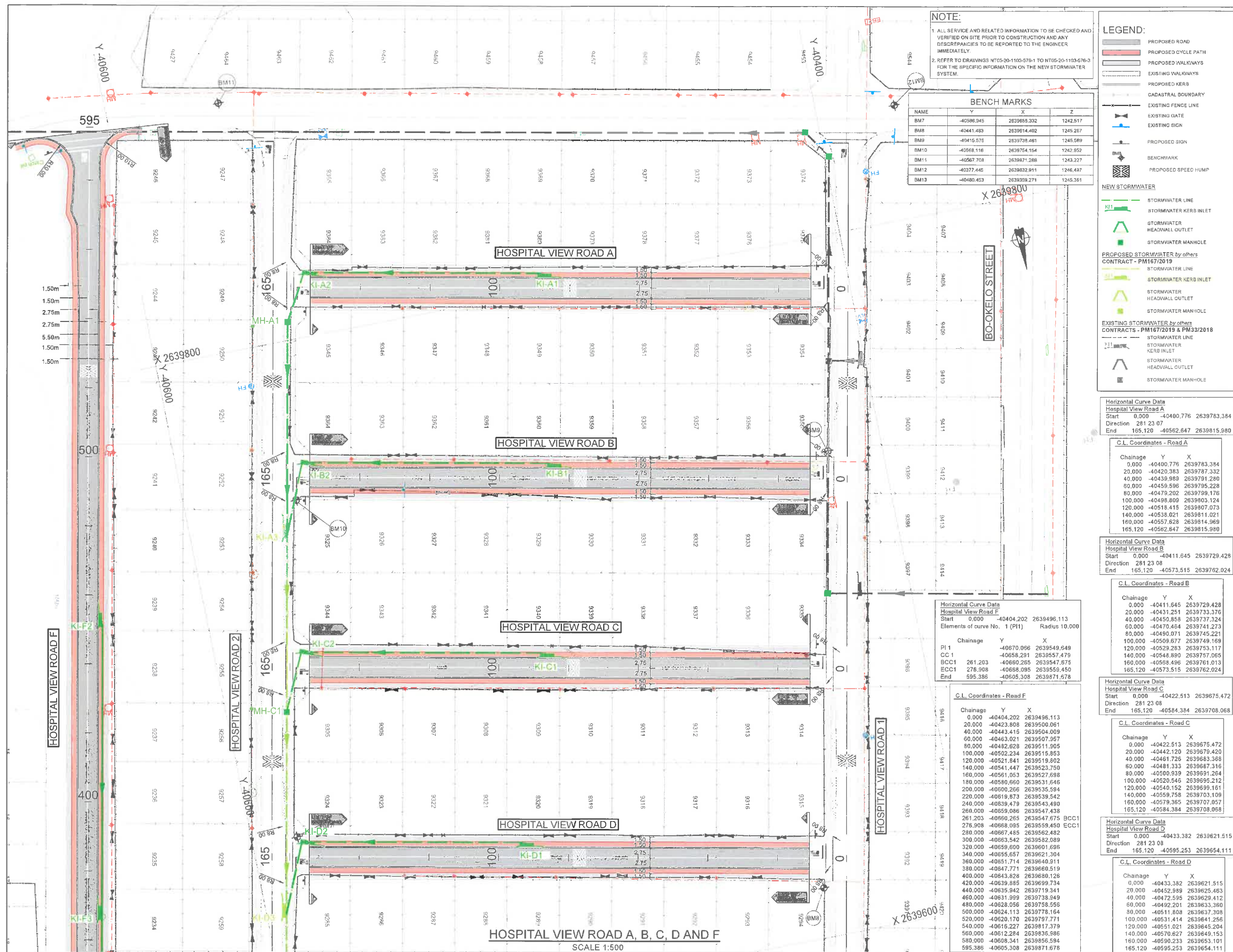
CONSULTANT

AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914

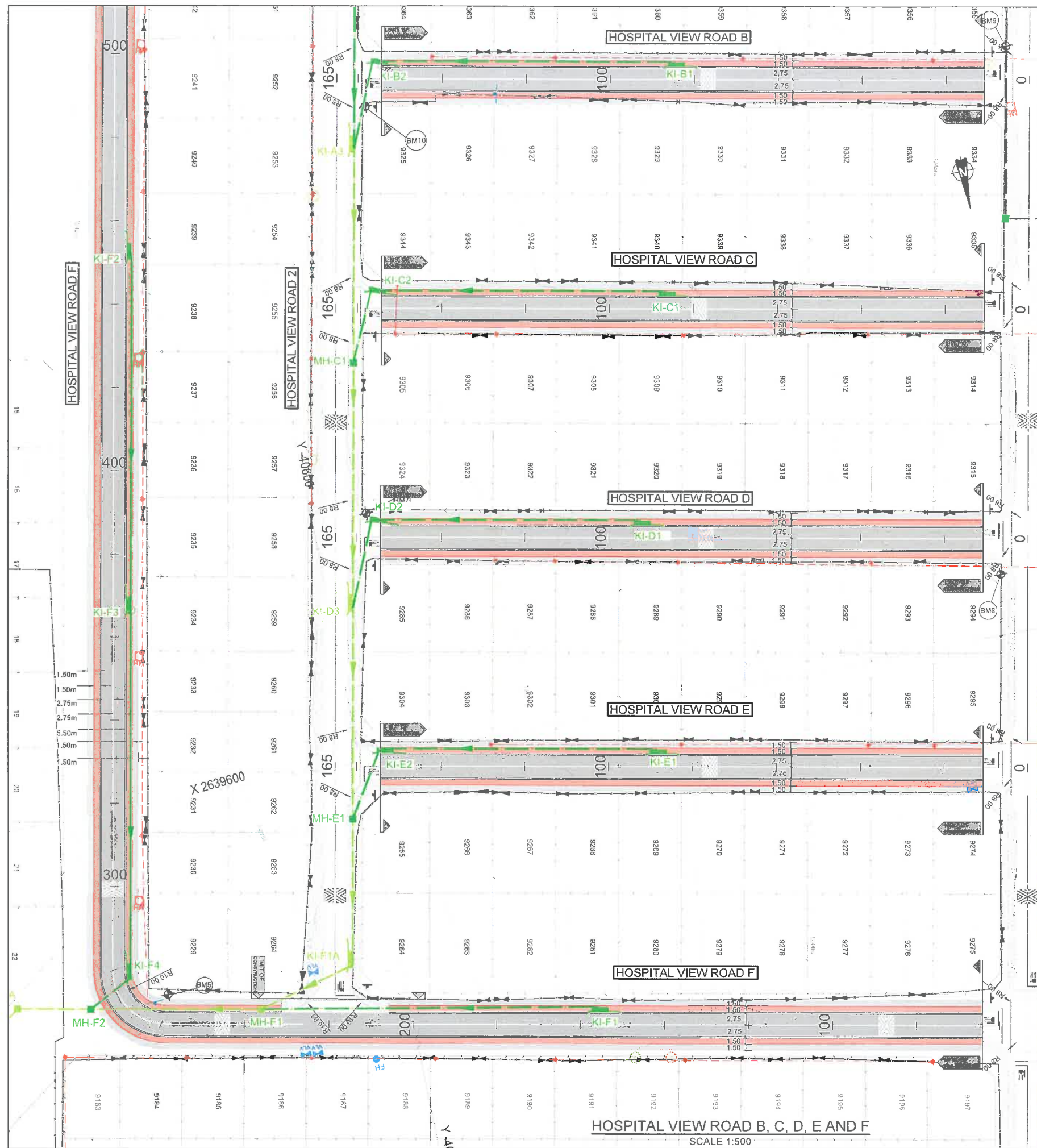
Fax No. (015) 295 9941

# NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.









**NOTE:**

1. ALL SERVICE AND RELATED INFORMATION TO BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

2. REFER TO DRAWINGS NT05-20-1103-575-1 TO NT05-20-1103-575-3 FOR THE SPECIFIC INFORMATION ON THE NEW STORMWATER SYSTEM.

BENCH MARKS			
NAME	Y	X	Z
BM5	-40658.008	2639554.135	1241.598
BM6	-40399.825	2639492.846	1246.889
BM7	-40586.945	2639658.332	1242.517
BM8	-40441.483	2639614.402	1245.267
BM9	-40415.575	2639738.461	1245.589
BM10	-40568.116	2639754.154	1242.952

- LEGEND:**
- PROPOSED ROAD
  - PROPOSED CYCLE PATH
  - PROPOSED WALKWAYS
  - EXISTING WALKWAYS
  - PROPOSED KERB
  - CADASTRAL BOUNDARY
  - EXISTING FENCE LINE
  - EXISTING GATE
  - EXISTING SIGN
  - PROPOSED SIGN
  - BENCHMARK
  - PROPOSED SPEED HUMP

- NEW STORMWATER**
- STORMWATER LINE
  - STORMWATER KERB INLET
  - STORMWATER HEADWALL OUTLET
  - STORMWATER MANHOLE
- PROPOSED STORMWATER by others**  
CONTRACT - PM167/2019
- STORMWATER LINE
  - STORMWATER KERB INLET
  - STORMWATER HEADWALL OUTLET
  - STORMWATER MANHOLE
- EXISTING STORMWATER by others**  
CONTRACTS - PM167/2019 & PM33/2018
- STORMWATER LINE
  - STORMWATER KERB INLET
  - STORMWATER HEADWALL OUTLET
  - STORMWATER MANHOLE

**Horizontal Curve Data**  
Hospital View Road B

Start	0.000	-40411.645	2639729.428
Direction	281 23 08		
End	165.120	-40573.515	2639762.024

**C.L. Coordinates - Road B**

Chainage	Y	X
0.000	-40411.645	2639729.428
20.000	-40431.251	2639733.376
40.000	-40459.858	2639737.324
60.000	-40470.464	2639741.273
80.000	-40490.071	2639745.221
100.000	-40509.677	2639749.169
120.000	-40529.283	2639753.117
140.000	-40548.890	2639757.065
160.000	-40568.496	2639761.013
165.120	-40573.515	2639762.024

**Horizontal Curve Data**  
Hospital View Road C

Start	0.000	-40422.513	2639675.472
Direction	281 23 08		
End	165.120	-40584.384	2639708.068

**C.L. Coordinates - Road C**

Chainage	Y	X
0.000	-40422.513	2639675.472
20.000	-40442.120	2639679.420
40.000	-40461.726	2639683.368
60.000	-40481.333	2639687.316
80.000	-40500.939	2639691.264
100.000	-40520.546	2639695.212
120.000	-40540.152	2639699.161
140.000	-40559.758	2639703.109
160.000	-40579.365	2639707.057
165.120	-40584.384	2639708.068

**Horizontal Curve Data**  
Hospital View Road F

Start	0.000	-40404.202	2639496.113
Direction	281 23 08		
End	165.120	-40595.253	2639654.111

**C.L. Coordinates - Road F**

Chainage	Y	X
0.000	-40404.202	2639496.113
20.000	-40423.808	2639500.061
40.000	-40443.415	2639504.009
60.000	-40463.021	2639507.957
80.000	-40482.628	2639511.905
100.000	-40502.234	2639515.853
120.000	-40521.841	2639519.802
140.000	-40541.447	2639523.750
160.000	-40561.053	2639527.698
165.120	-40580.660	2639531.646
200.000	-40600.266	2639535.594
220.000	-40619.873	2639539.542
240.000	-40639.479	2639543.490
260.000	-40659.086	2639547.438
261.203	-40660.265	2639547.675
276.908	-40668.095	2639559.450
280.000	-40667.485	2639562.482
300.000	-40663.542	2639562.089
320.000	-40659.600	2639601.696
340.000	-40655.657	2639621.304
360.000	-40651.714	2639640.911
380.000	-40647.771	2639660.519
400.000	-40643.828	2639680.126
420.000	-40639.885	2639699.734
440.000	-40635.942	2639719.341
460.000	-40631.999	2639738.949
480.000	-40628.056	2639758.556
500.000	-40624.113	2639778.164
520.000	-40620.170	2639797.771
540.000	-40616.227	2639817.379
560.000	-40612.284	2639836.986
580.000	-40608.341	2639856.594
595.386	-40605.308	2639871.678

**Horizontal Curve Data**  
Hospital View Road D

Start	0.000	-40433.382	2639621.515
Direction	281 23 08		
End	165.120	-40595.253	2639654.111

**C.L. Coordinates - Road D**

Chainage	Y	X
0.000	-40433.382	2639621.515
20.000	-40452.989	2639625.463
40.000	-40472.595	2639629.412
60.000	-40492.201	2639633.360
80.000	-40511.808	2639637.308
100.000	-40531.414	2639641.256
120.000	-40551.021	2639645.204
140.000	-40570.627	2639649.153
160.000	-40590.233	2639653.101
165.120	-40595.253	2639654.111

**Horizontal Curve Data**  
Hospital View Road E

Start	0.000	-40444.251	2639567.559
Direction	281 23 08		
End	165.120	-40606.121	2639600.155

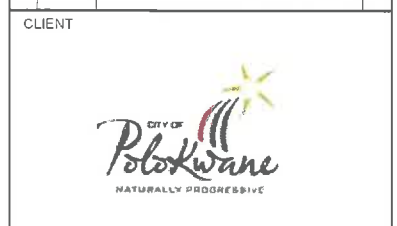
**C.L. Coordinates - Road E**

Chainage	Y	X
0.000	-40444.251	2639567.559
20.000	-40463.857	2639571.507
40.000	-40483.464	2639575.455
60.000	-40503.070	2639579.403
80.000	-40522.676	2639583.352
100.000	-40542.283	2639587.300
120.000	-40561.889	2639591.248
140.000	-40581.496	2639595.196
160.000	-40601.102	2639599.144
165.120	-40606.121	2639600.155

- GENERAL NOTES:**
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  - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL PROJECT SPECIFICATIONS.
  - ALL AMBIGUITIES ON DRAWINGS MUST BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
  - ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE INDICATED.)
  - DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
  - ALL BENCHMARKS TO BE CONFIRMED ON SITE.

**REVISION INFORMATION**

No.	DATE	DESCRIPTION	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	



**CONSULTANT**

**amce**

AMCE  
19 Neethling Street  
Bender Ext 30  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

**PROJECT DESCRIPTION**

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

**DISCIPLINE**

ROADS & TRANSPORT

**DRAWING DESCRIPTION**

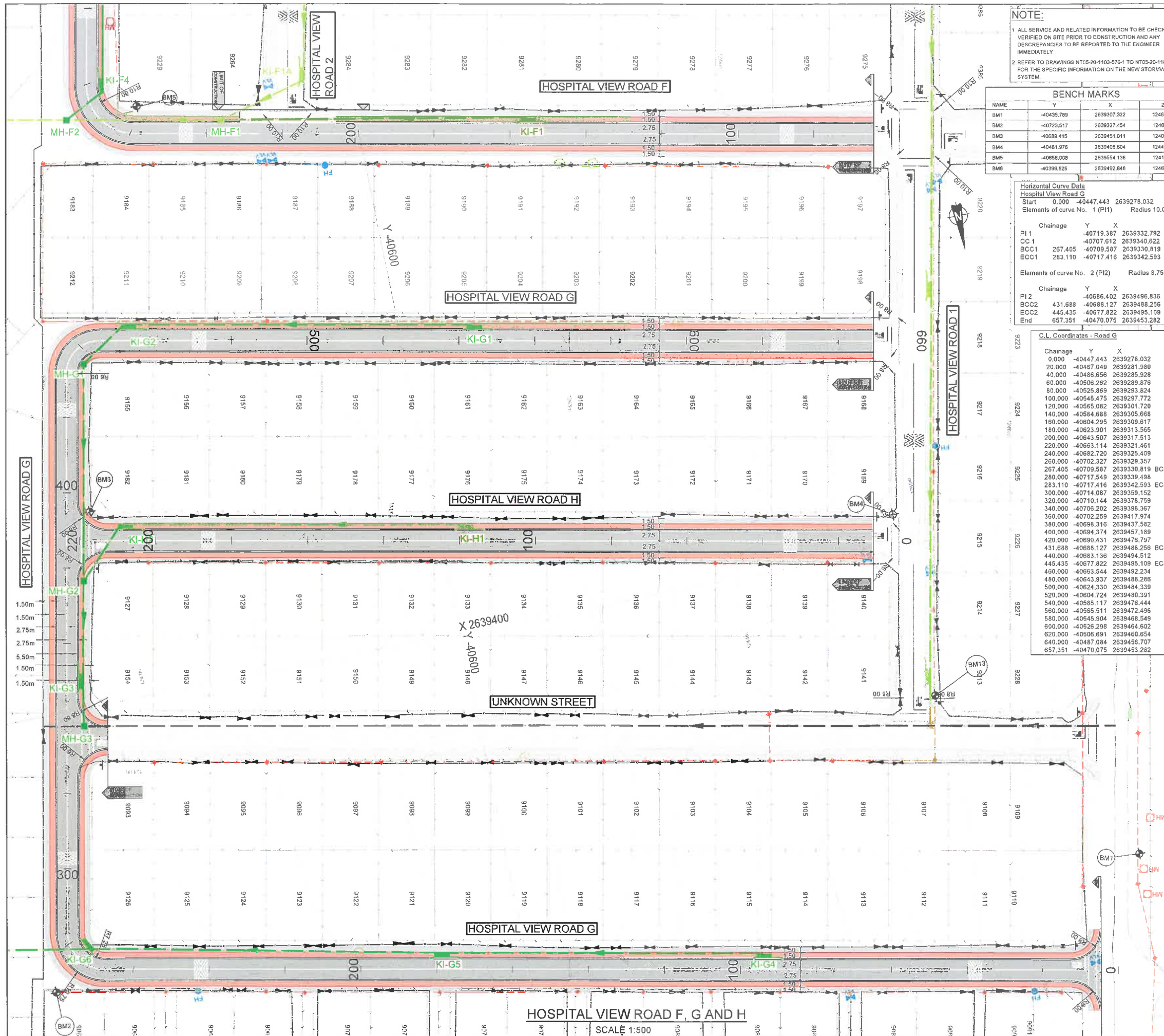
LAYOUT PLAN  
SHEET 2 OF 3

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

**DRAWING NO.:**  
NT05-20-1103-502-2

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





**NOTE:**  
1. ALL SERVICE AND RELATED INFORMATION TO BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.  
2. REFER TO DRAWINGS NT05-20-1103-576-1 TO NT05-20-1103-576-3 FOR THE SPECIFIC INFORMATION ON THE NEW STORMWATER SYSTEM.

BENCH MARKS			
NAME	Y	X	Z
BM1	-40435.789	2639307.322	1246.151
BM2	-40723.517	2639327.454	1240.392
BM3	-40689.415	2639451.011	1240.978
BM4	-40481.976	2639408.604	1244.910
BM5	-40656.008	2639554.136	1241.598
BM6	-40399.825	2639492.846	1246.888

Horizontal Curve Data Hospital View Road G			
Start	0.000	-40447.443	2639278.032
End	20.000	-40467.049	2639281.880
Elements of curve No. 1 (P1)			Radius 10,000
Chainage	Y	X	
PI 1	-40719.387	2639332.792	
CC 1	-40707.612	2639340.622	
BCC1	267.405	-40709.587	2639330.819
ECC1	283.110	-40717.416	2639342.593

Horizontal Curve Data Hospital View Road F			
Start	0.000	-40404.202	2639496.113
End	20.000	-40467.049	2639281.880
Elements of curve No. 1 (P1)			Radius 10,000
Chainage	Y	X	
PI 1	-40670.068	2639549.649	
CC 1	-40658.291	2639557.479	
BCC1	261.203	-40690.265	2639547.675
ECC1	276.908	-40688.095	2639559.450
End	595.356	-40605.308	2639871.678

C.L. Coordinates - Road G			
Chainage	Y	X	
0.000	-40447.443	2639278.032	
20.000	-40467.049	2639281.880	
40.000	-40486.656	2639285.928	
60.000	-40506.262	2639289.876	
80.000	-40525.869	2639293.824	
100.000	-40545.475	2639297.772	
120.000	-40565.082	2639301.720	
140.000	-40584.688	2639305.668	
160.000	-40604.295	2639309.617	
180.000	-40623.901	2639313.565	
200.000	-40643.507	2639317.513	
220.000	-40663.114	2639321.461	
240.000	-40682.720	2639325.409	
260.000	-40702.327	2639329.357	
267.405	-40709.587	2639330.819	BCC1
280.000	-40717.549	2639339.498	
283.110	-40717.416	2639342.593	ECC1
300.000	-40714.087	2639359.152	
320.000	-40710.144	2639378.759	
340.000	-40705.202	2639398.367	
360.000	-40702.259	2639417.974	
380.000	-40698.316	2639437.582	
400.000	-40694.374	2639457.189	
420.000	-40690.431	2639476.797	
431.688	-40688.127	2639488.256	BCC2
440.000	-40683.136	2639494.512	
445.435	-40677.822	2639495.109	ECC2
460.000	-40663.544	2639492.234	
480.000	-40643.937	2639488.286	
500.000	-40624.330	2639484.339	
520.000	-40604.724	2639480.391	
540.000	-40585.117	2639476.444	
560.000	-40565.511	2639472.496	
580.000	-40545.904	2639468.549	
600.000	-40526.298	2639464.602	
620.000	-40506.691	2639460.654	
640.000	-40487.084	2639456.707	
657.351	-40470.075	2639453.282	

Horizontal Curve Data Hospital View Road F			
Start	0.000	-40404.202	2639496.113
End	20.000	-40467.049	2639281.880
Elements of curve No. 1 (P1)			Radius 10,000
Chainage	Y	X	
PI 1	-40670.068	2639549.649	
CC 1	-40658.291	2639557.479	
BCC1	261.203	-40690.265	2639547.675
ECC1	276.908	-40688.095	2639559.450
End	595.356	-40605.308	2639871.678

C.L. Coordinates - Road F			
Chainage	Y	X	
0.000	-40404.202	2639496.113	
20.000	-40423.808	2639500.061	
40.000	-40443.415	2639504.009	
60.000	-40463.021	2639507.957	
80.000	-40482.628	2639511.905	
100.000	-40502.234	2639515.853	
120.000	-40521.841	2639519.802	
140.000	-40541.447	2639523.750	
160.000	-40561.053	2639527.698	
180.000	-40580.660	2639531.646	
200.000	-40600.266	2639535.594	
220.000	-40619.873	2639539.542	
240.000	-40639.479	2639543.490	
260.000	-40659.086	2639547.438	
261.203	-40660.265	2639547.675	BCC1
276.908	-40668.095	2639559.450	ECC1
280.000	-40667.485	2639562.482	
300.000	-40663.542	2639582.089	
320.000	-40659.600	2639601.696	
340.000	-40655.657	2639621.304	
360.000	-40651.714	2639640.911	
380.000	-40647.771	2639660.519	
400.000	-40643.828	2639680.126	
420.000	-40639.885	2639699.734	
440.000	-40635.942	2639719.341	
460.000	-40631.999	2639738.949	
480.000	-40628.056	2639758.556	
500.000	-40624.113	2639778.164	
520.000	-40620.170	2639797.771	
540.000	-40616.227	2639817.379	
560.000	-40612.284	2639836.986	
580.000	-40608.341	2639856.594	
595.356	-40605.308	2639871.678	

Horizontal Curve Data Hospital View Road H			
Start	2.750	-40480.580	2639401.128
Direction	281.23.09		
End	220.650	-40694.192	2639444.145

C.L. Coordinates - Road H			
Chainage	Y	X	
2.750	-40480.580	2639401.128	
20.000	-40497.491	2639404.534	
40.000	-40517.097	2639408.482	
60.000	-40536.704	2639412.430	
80.000	-40556.310	2639416.379	
100.000	-40575.917	2639420.327	
120.000	-40595.523	2639424.275	
140.000	-40615.129	2639428.223	
160.000	-40634.736	2639432.172	
180.000	-40654.342	2639436.120	
200.000	-40673.949	2639440.068	
220.000	-40693.555	2639444.017	
220.650	-40694.192	2639444.145	

**LEGEND:**

- PROPOSED ROAD
- PROPOSED CYCLE PATH
- PROPOSED WALKWAYS
- EXISTING WALKWAYS
- PROPOSED KERB
- CADASTRAL BOUNDARY
- EXISTING FENCE LINE
- EXISTING GATE
- EXISTING SIGN
- PROPOSED SIGN
- BENCHMARK
- PROPOSED SPEED HUMP

**NEW STORMWATER**

- STORMWATER LINE
- STORMWATER KERB INLET
- STORMWATER HEADWALL OUTLET
- STORMWATER MANHOLE

**PROPOSED STORMWATER by others**

- STORMWATER LINE
- STORMWATER KERB INLET
- STORMWATER HEADWALL OUTLET
- STORMWATER MANHOLE

**EXISTING STORMWATER by others**

- STORMWATER LINE
- STORMWATER KERB INLET
- STORMWATER HEADWALL OUTLET
- STORMWATER MANHOLE

**Horizontal Curve Data  
Hospital View Road F**

Start: 0.000, -40404.202, 2639496.113

End: 20.000, -40467.049, 2639281.880

Elements of curve No. 1 (P1): Radius 10,000

**C.L. Coordinates - Road F**

Chainage: 0.000, 20.000, 40.000, 60.000, 80.000, 100.000, 120.000, 140.000, 160.000, 180.000, 200.000, 220.000, 240.000, 260.000, 280.000, 300.000, 320.000, 340.000, 360.000, 380.000, 400.000, 420.000, 440.000, 460.000, 480.000, 500.000, 520.000, 540.000, 560.000, 580.000, 600.000, 620.000, 640.000, 657.351

**Horizontal Curve Data  
Hospital View Road H**

Start: 2.750, -40480.580, 2639401.128

Direction: 281.23.09

End: 220.650, -40694.192, 2639444.145

**C.L. Coordinates - Road H**

Chainage: 2.750, 20.000, 40.000, 60.000, 80.000, 100.000, 120.000, 140.000, 160.000, 180.000, 200.000, 220.000, 220.650

**GENERAL NOTES:**

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- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL PROJECT SPECIFICATIONS.
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- ALL BENCHMARKS MUST BE CHECKED ON SITE.

**REVISION INFORMATION**

No.	DATE	DESCRIPTION	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-26	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

**CLIENT**

**CONSULTANT**

**amce**

AMCE  
19 Neelthing Street  
Bendor Ext 30  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

**PROJECT DESCRIPTION**

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

**DISCIPLINE**

ROADS & TRANSPORT

**DRAWING DESCRIPTION**

LAYOUT PLAN  
SHEET 3 OF 3

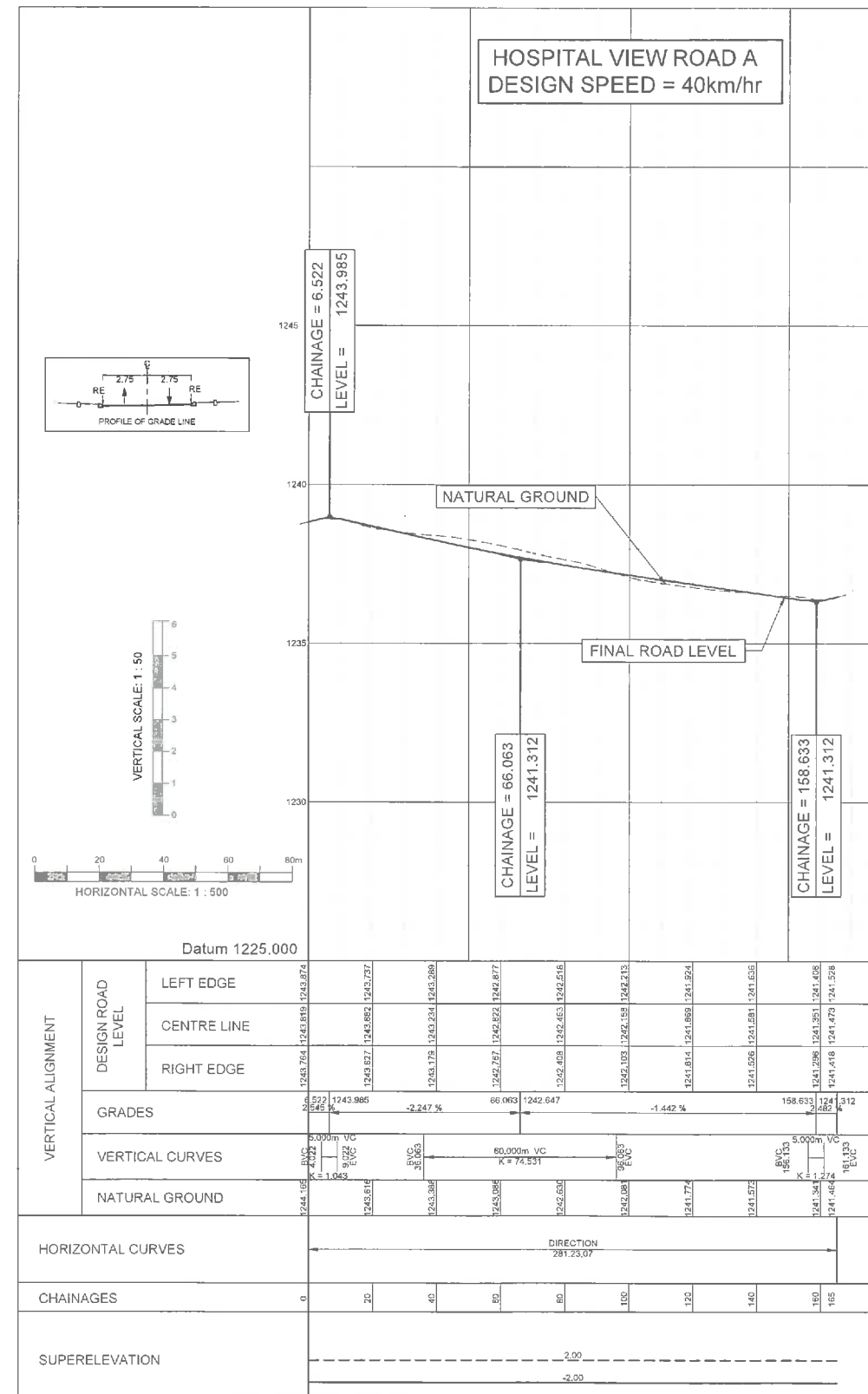
**DESIGNED BY:** M. MOTSEPE  
**CHECKED BY:** K. MANGXABA  
**APPROVED BY:** M. GWABA  
**Pr Eng.:20140479**

**SIGNATURE AND DATE:**  
25 NOVEMBER 2020  
25 NOVEMBER 2020  
25 NOVEMBER 2020

**PROJECT NO.:** 1103  
**DRAWING NO.:** NT05-20-1103-502-3

**SCALE:** AS SHOWN  
**SHEET SIZE:** A1  
**REVISION:** F1





- ## GENERAL NOTES:
1. DRAWINGS MUST NOT BE SCALED.
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  4. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE INDICATED.)
  5. DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
  6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.


No:	DATE	DESCRIPTION:	BY
E1	2020-10-28	ISSUED FOR DETAIL DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	



PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DRAWING DESCRIPTION  
LONGITUDINAL SECTION:  
HOSPITAL VIEW ROAD A  
0+000 - 0+165

CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
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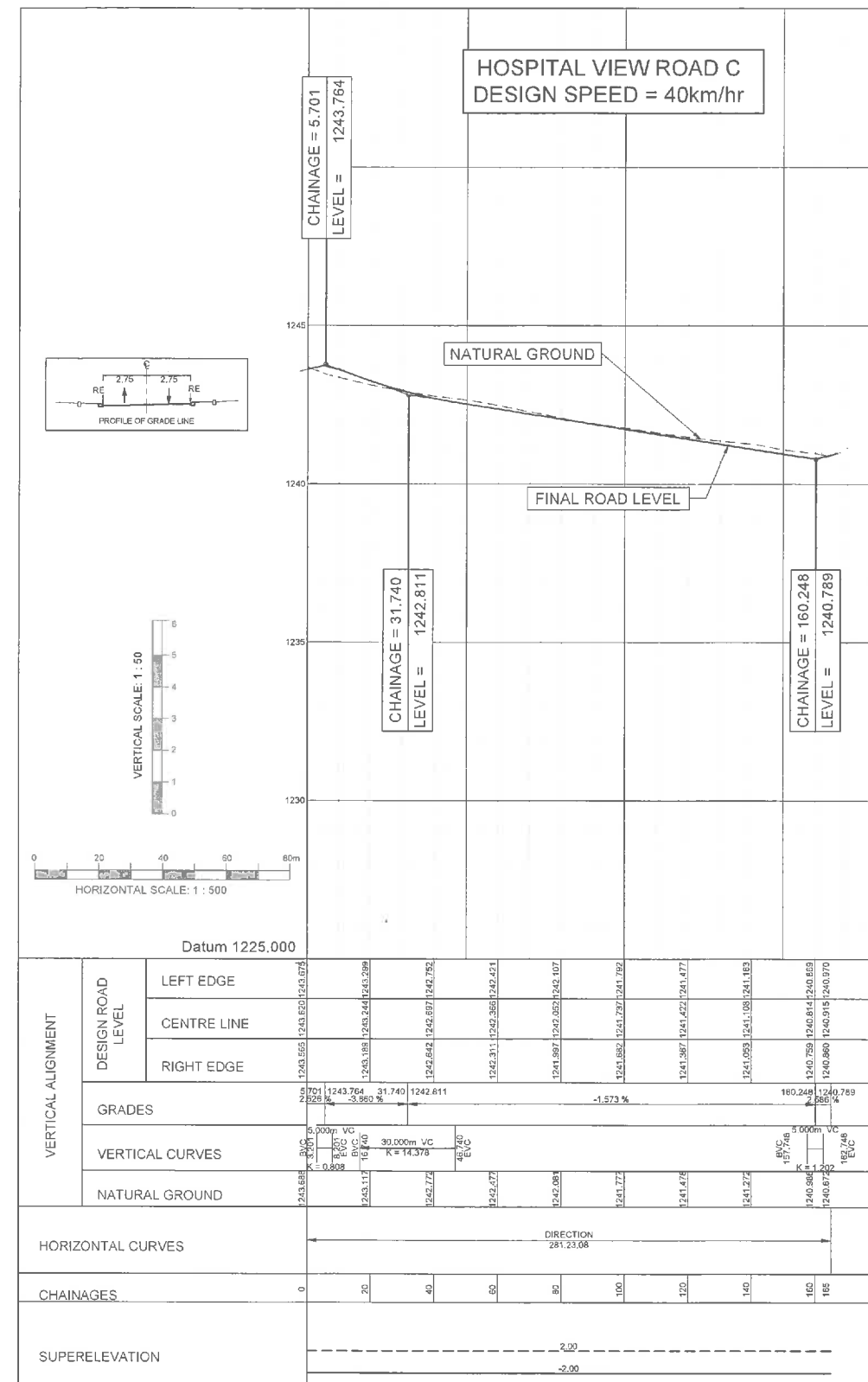
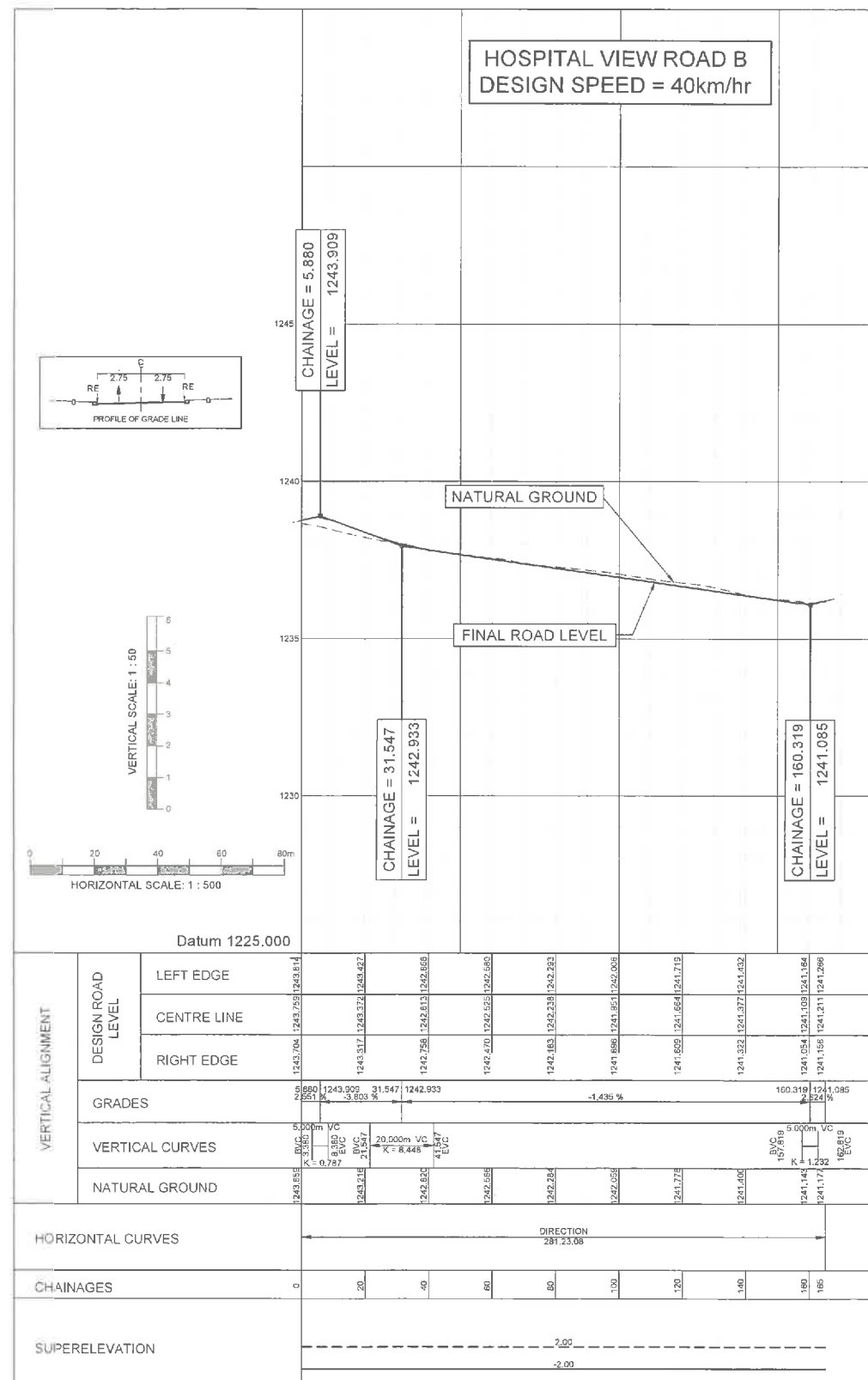
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  26 NOVEMBER 2020
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PROJECT NO.:	DATE:
1103	25 NOVEMBER 2020

DRAWING NO.: NT05-20-1103-503-1

SCALE AS SHOWN	SHEET SIZE A1	REVISION F1
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- GENERAL NOTES:**
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  - DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
  - ALL BENCHMARKS TO BE CONFIRMED ON SITE.

**REVISION INFORMATION**

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAIL DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION




NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

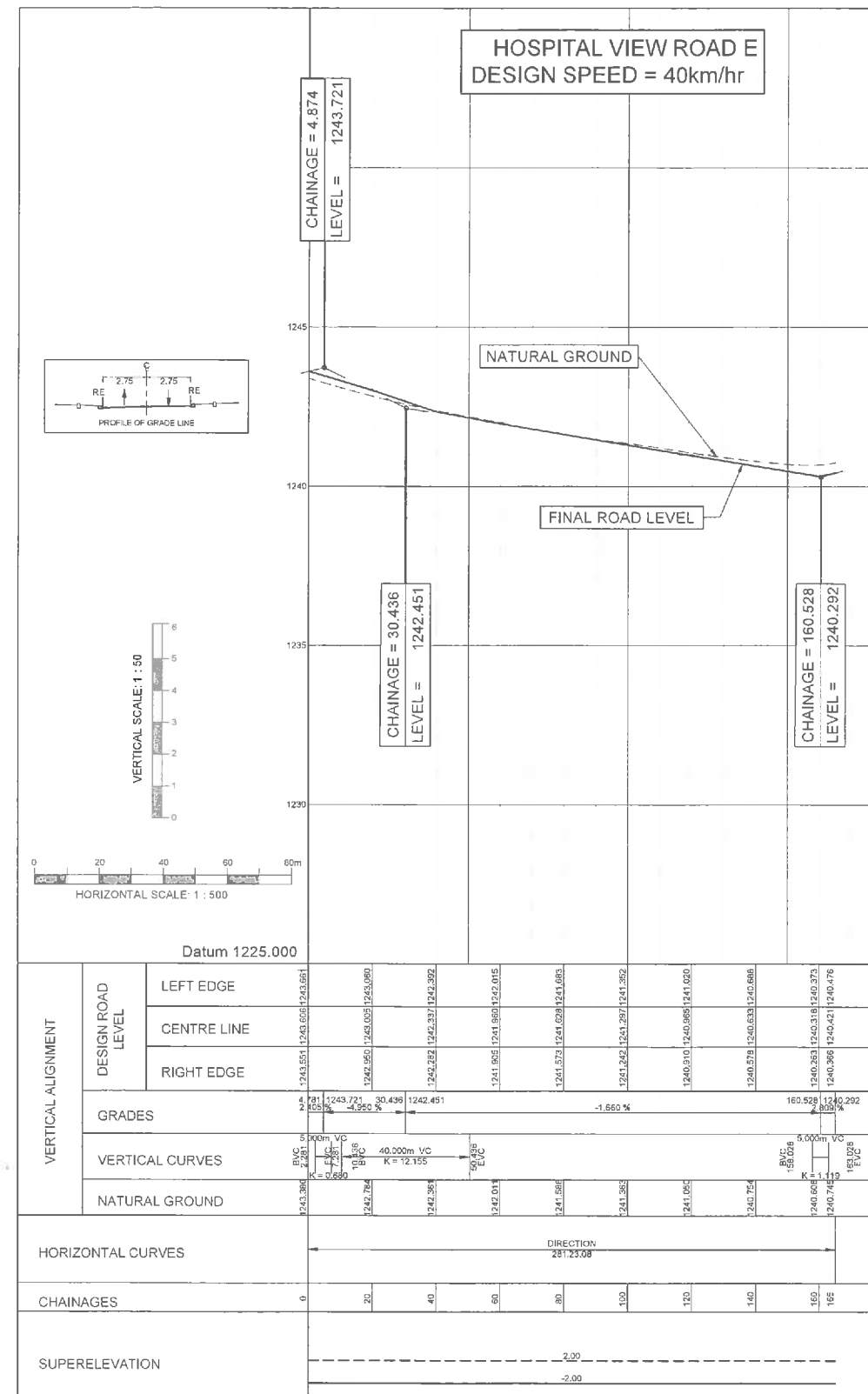
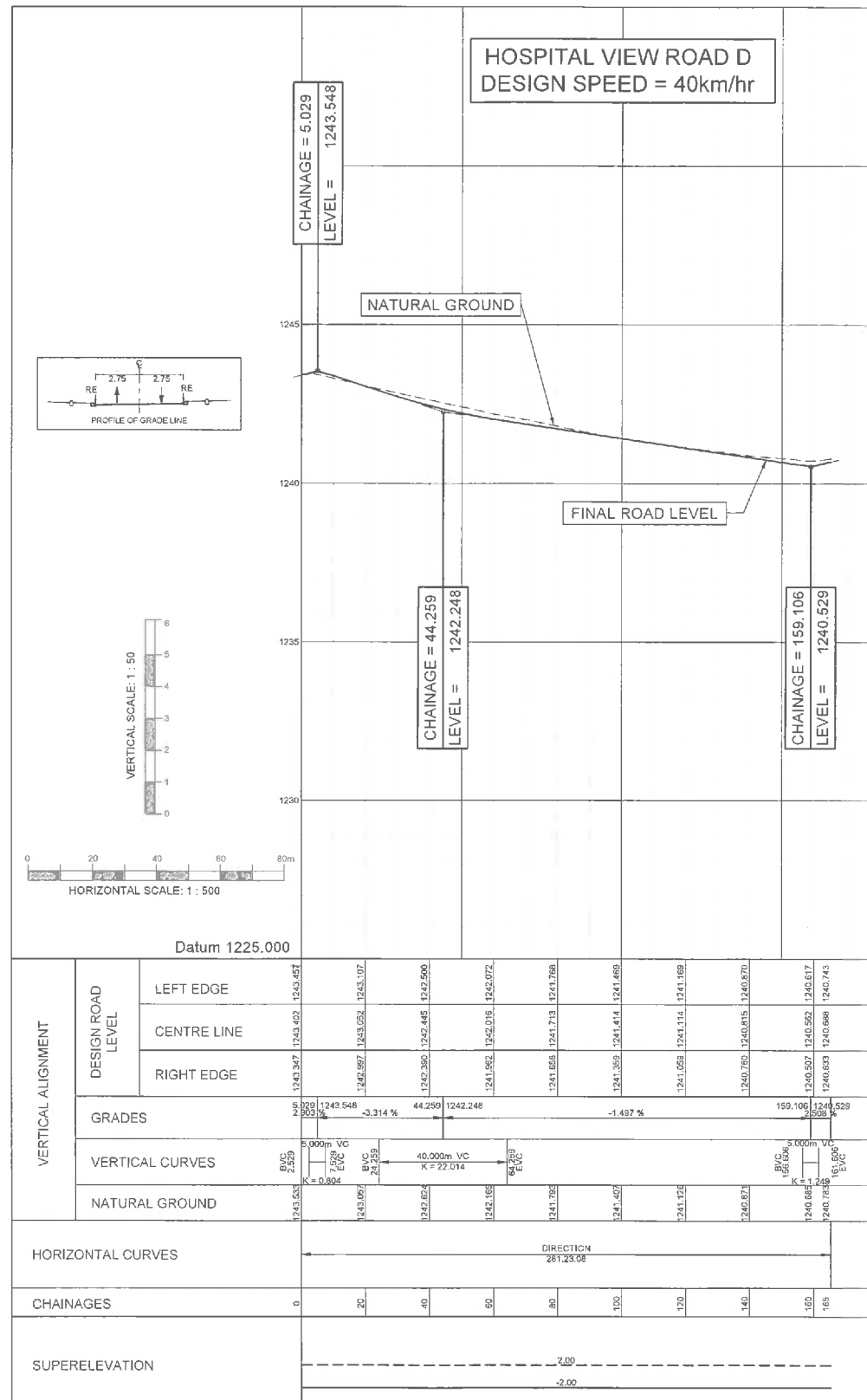
DRAWING DESCRIPTION

LONGITUDINAL SECTION:  
HOSPITAL VIEW ROAD B & C  
0+000 - 0+165

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>
DRAWING NO.: <b>NT05-20-1103-503-2</b>	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





**GENERAL NOTES:**

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- DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
- ALL BENCHMARKS TO BE CONFIRMED ON SITE.

**REVISION INFORMATION**

No.	DATE	DESCRIPTION	BY
E1	2020-10-20	ISSUED FOR DETAIL DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT

**amce**

AMCE  
19 Neethling Street  
Bender Ext 30,  
Polokwane, 0599  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

CONSULTANT

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE  
ROADS & TRANSPORT

DRAWING DESCRIPTION  
LONGITUDINAL SECTION:  
HOSPITAL VIEW ROAD D & E  
0+000 - 0+165

DESIGNED BY:  
M. MOTSEPE

CHECKED BY:  
K. MANGXABA  
Pr Tech. Eng.:201670165

APPROVED BY:  
M. GWABA  
Pr Eng.:20140479

PROJECT NO.:  
1103

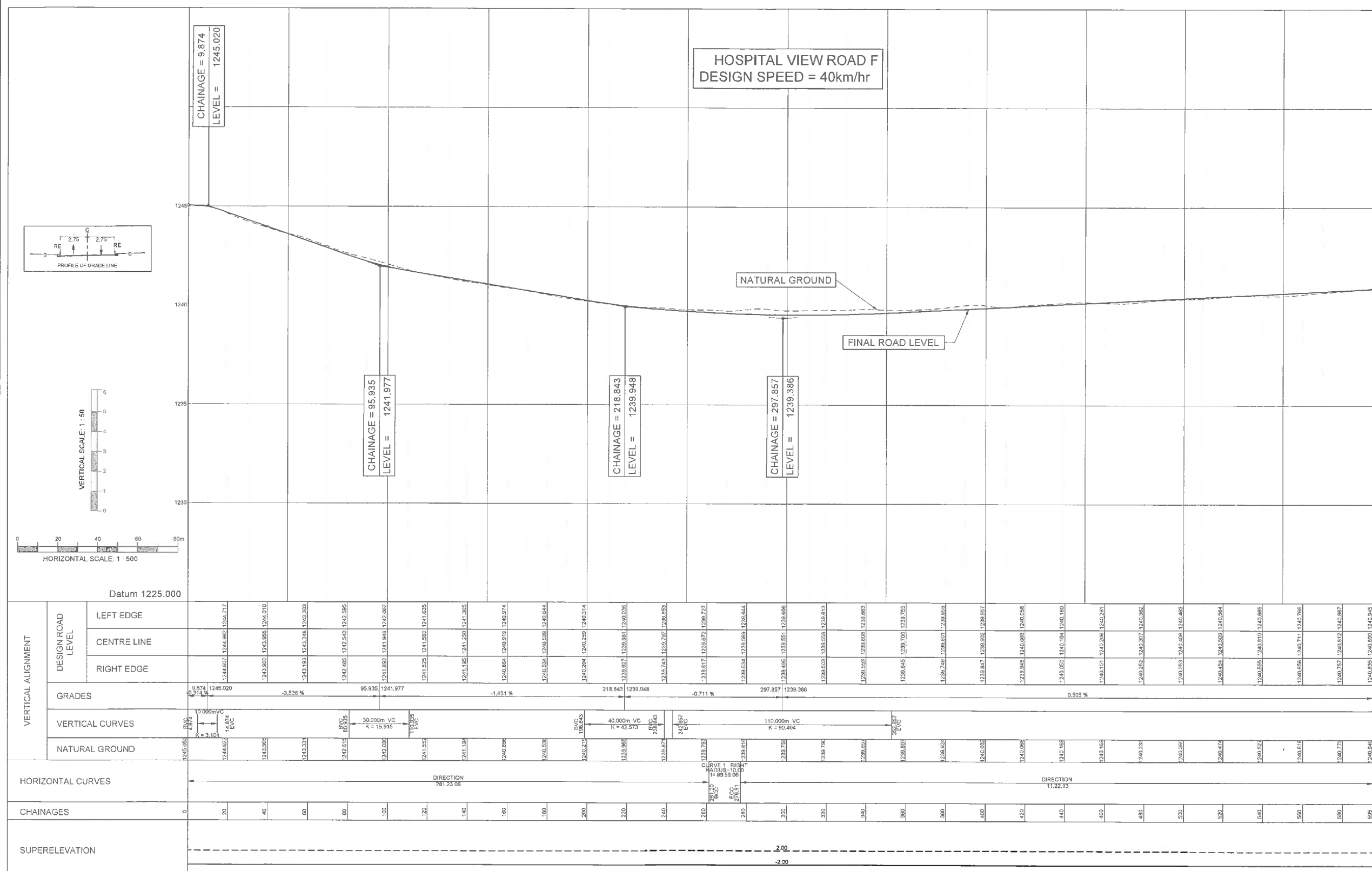
DRAWING NO.:  
NT05-20-1103-503-3

SCALE  
AS SHOWN

SHEET SIZE  
A1

REVISION  
F1





- ## GENERAL NOTES:
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  6. ALL BENCHMARKS MUST BE CONFIRMED ON SITE.



FOR CONTINUATION  
SEE DRG No.  
NT05-20-1103-503-6

#### GENERAL NOTES:

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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAIL DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bander Ext 30,  
Polokwane, 0999  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

#### PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

#### DISCIPLINE

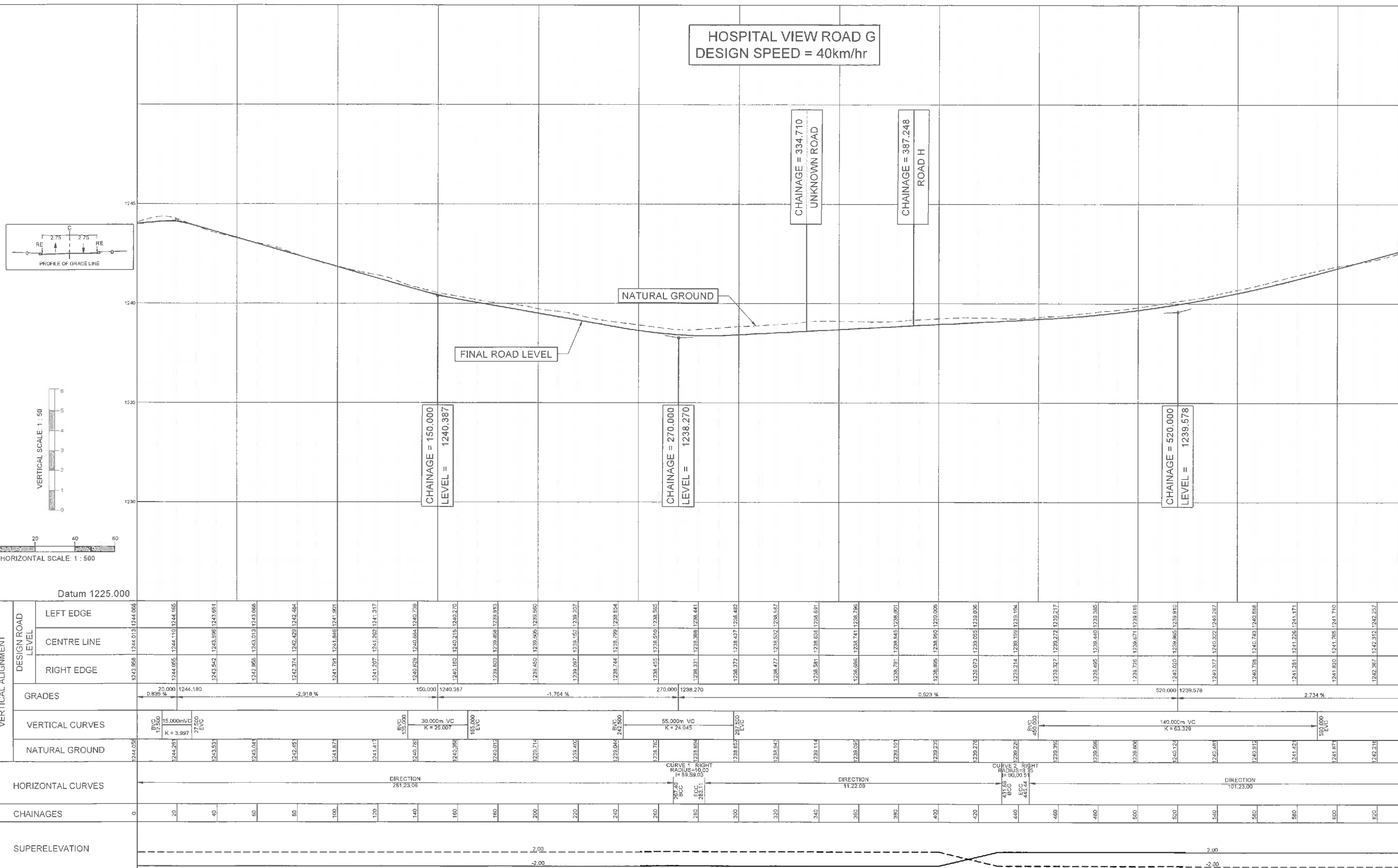
ROADS & TRANSPORT

#### DRAWING DESCRIPTION

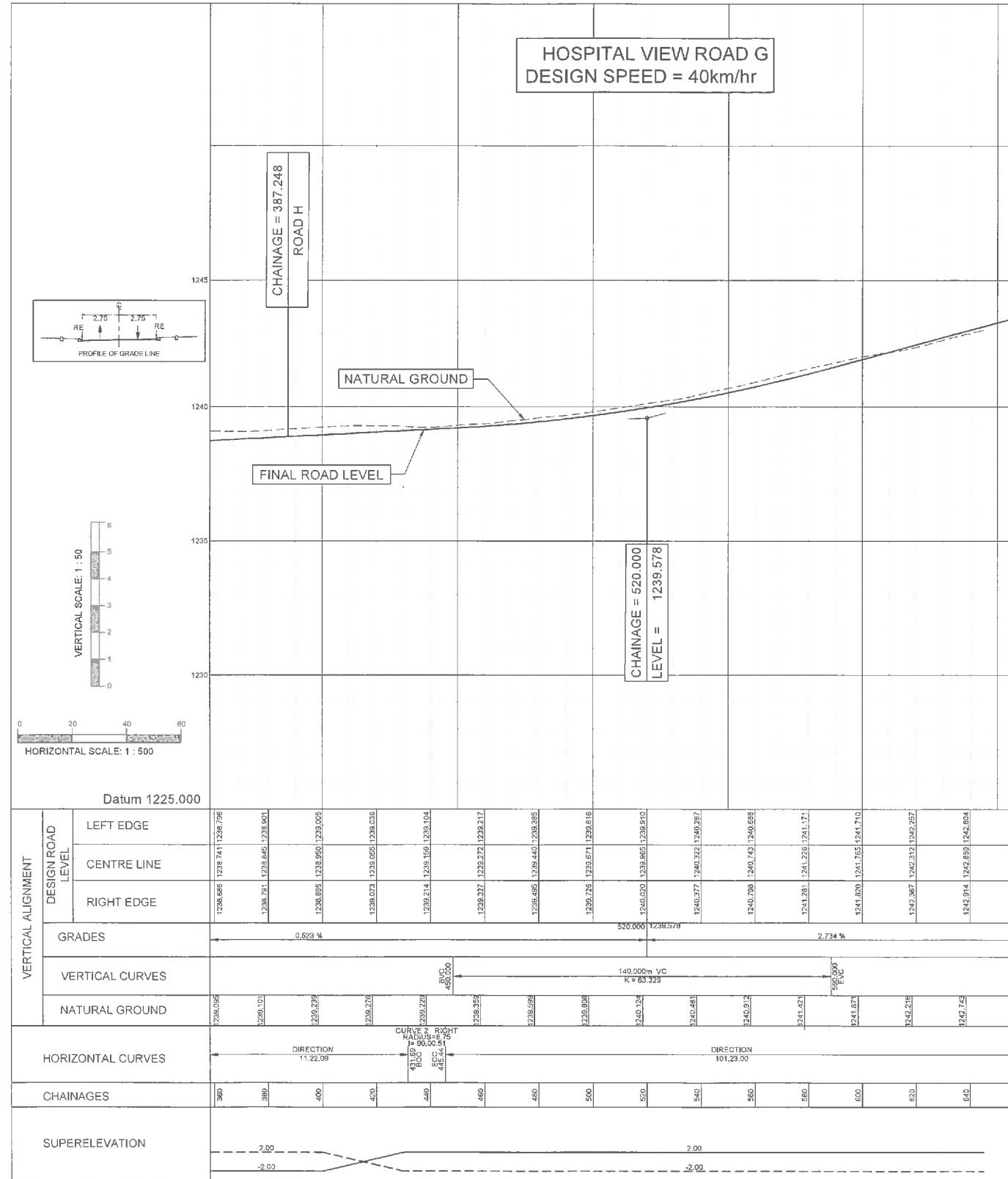
LONGITUDINAL SECTION:  
HOSPITAL VIEW ROAD G  
0+000 - 0+620

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>
DRAWING NO.: <b>NT05-20-1103-503-5</b>	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



FOR CONTINUATION  
SEE DRG No.  
NT05-20-1103-503-5



#### GENERAL NOTES:

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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAIL DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0599  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

#### PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

#### DISCIPLINE

ROADS & TRANSPORT

#### DRAWING DESCRIPTION

LONGITUDINAL SECTION:  
HOSPITAL VIEW ROAD G  
0+360 - 0+657

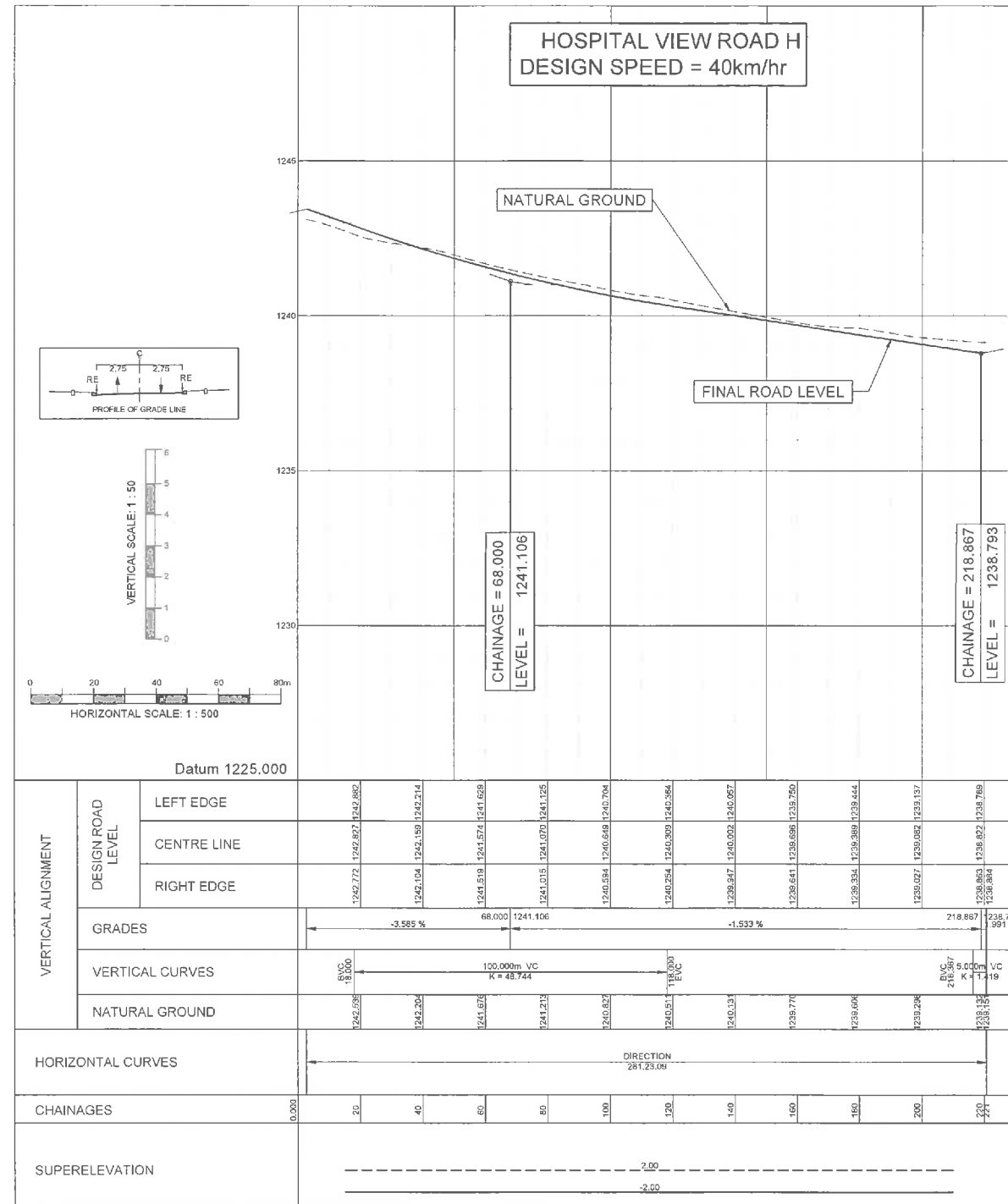
DESIGNED BY: M. MOTSEPE	SIGNATURE AND DATE: 25 NOVEMBER 2020
CHECKED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 25 NOVEMBER 2020
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 25 NOVEMBER 2020
PROJECT NO.: 1103	DATE: 25 NOVEMBER 2020

DRAWING NO.:

NT05-20-1103-503-6

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





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REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAIL DESIGN APPROVAL	
F1	2020-11-05	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE  
ROADS & TRANSPORT

DRAWING DESCRIPTION  
LONGITUDINAL SECTION:  
HOSPITAL VIEW ROAD H  
0+000 - 0+221

DESIGNED BY:  
M. MOTSEPE

SIGNATURE AND DATE:  
PP KS 25 NOVEMBER 2020

CHECKED BY:  
K. MANGXABA  
Pr Tech. Eng.:201670156

SIGNATURE AND DATE:  
25 NOVEMBER 2020

APPROVED BY:  
M. GWABA  
Pr Eng.:20140479

SIGNATURE AND DATE:  
25 NOVEMBER 2020

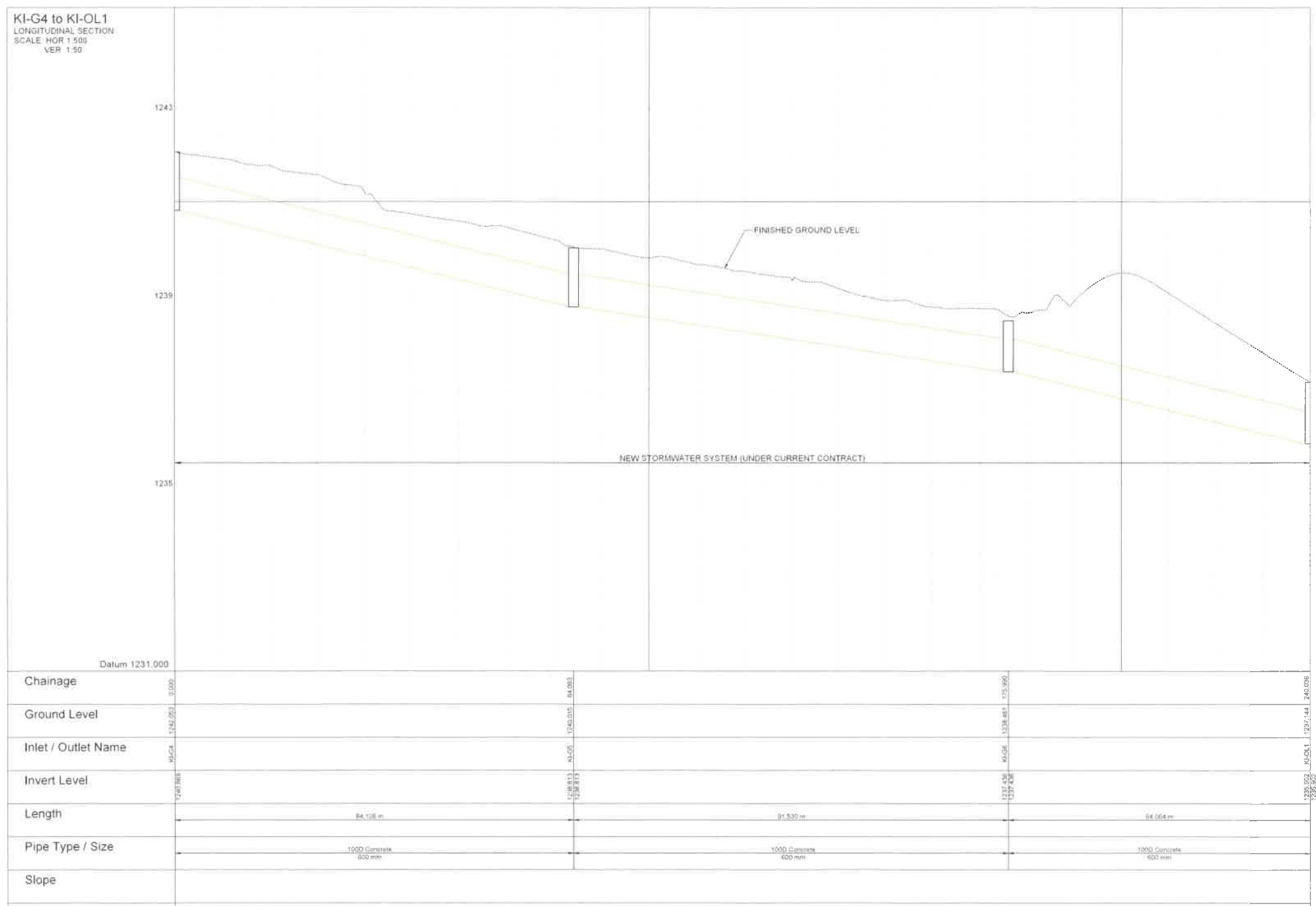
PROJECT NO.:  
1103

DATE:  
25 NOVEMBER 2020

DRAWING NO.:  
NT05-20-1103-503-7

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1

KI-G4 to KI-OL1  
LONGITUDINAL SECTION  
SCALE HOR 1:500  
VER 1:50



#### GENERAL NOTES:

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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelthing Street  
Bender Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

STORMWATER  
LONGITUDINAL SECTION  
SHEET 1 OF 10

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.

NT05-20-1103-504-1

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



GENERAL NOTES:

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## REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
E1	2020-10-29	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neething Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION


NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.


[illegible]

ROADS &amp; TRANSPORT

DRAWING DESCRIPTION  
**STORMWATER**  
LONGITUDINAL SECTION  
SHEET 2 OF 10

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
-----------------------------------	--

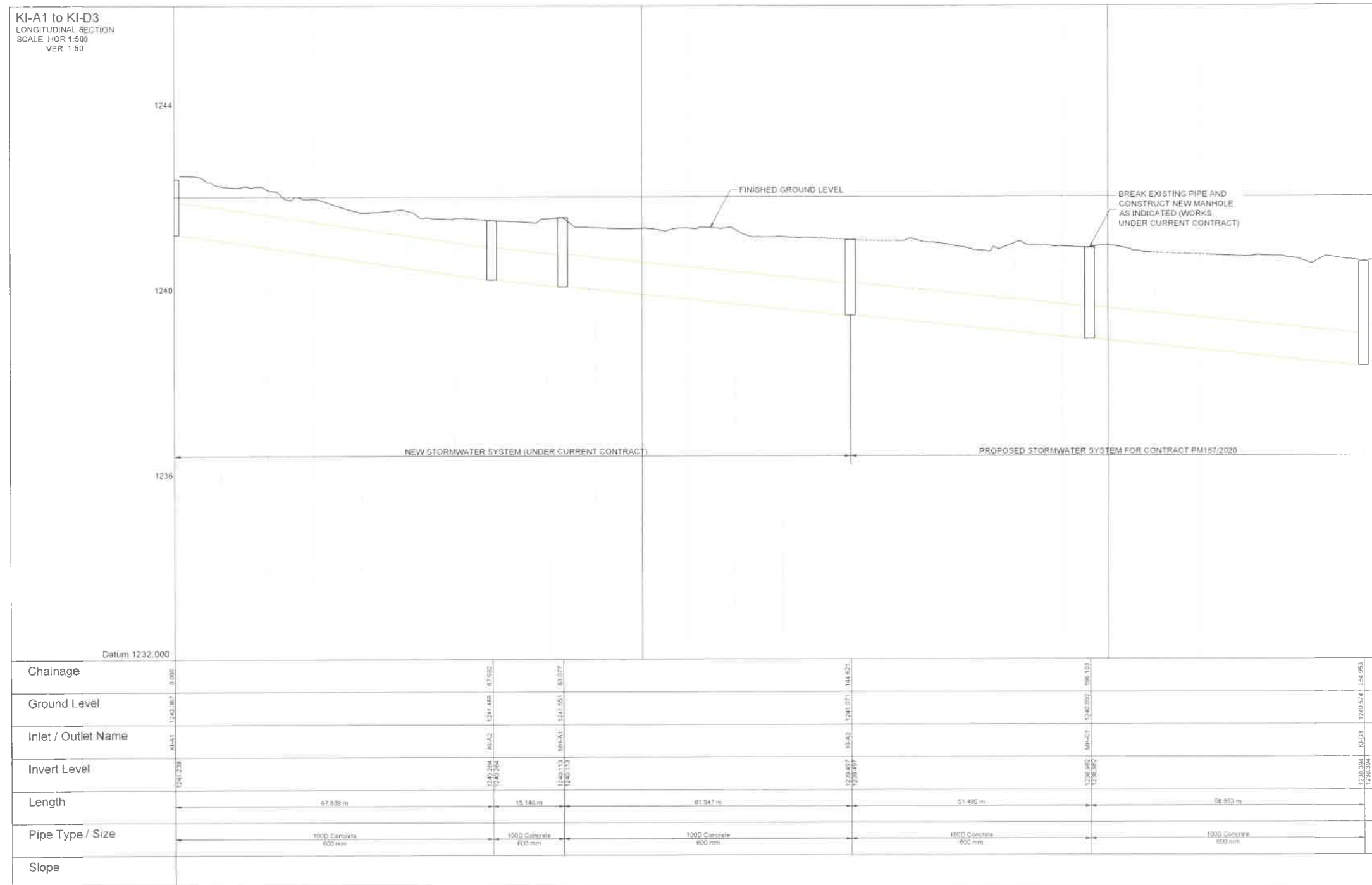
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
--	--

APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
--	--

PROJECT NO.:	DATE:
1103	25 NOVEMBER 2020

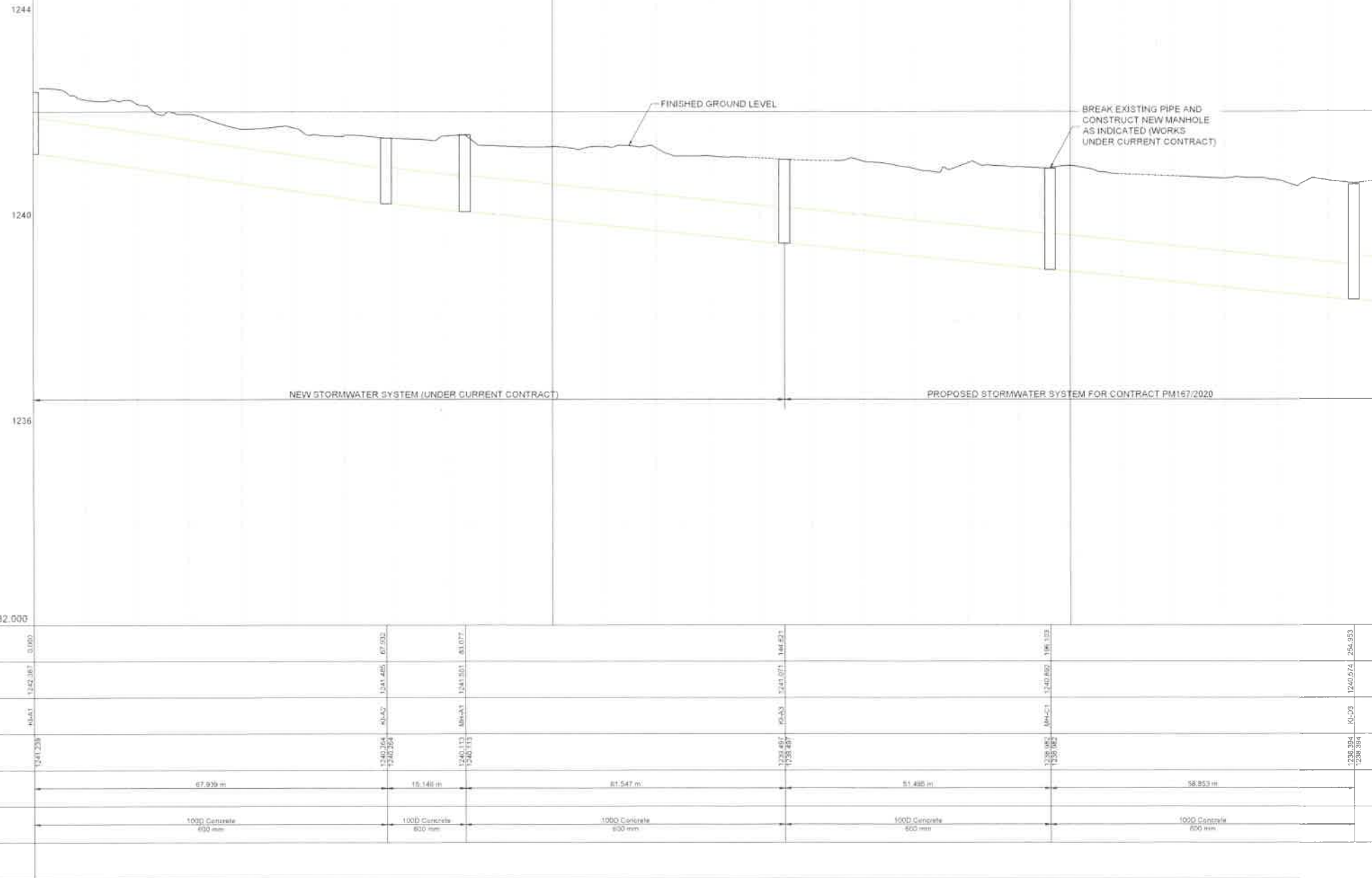
DRAWING NO.: NT05-20-1103-504-2

SCALE AS SHOWN	SHEET SIZE A1	REVISION F1
-------------------	------------------	----------------



FOR CONTINUATION  
SEE DRG No.  
NT05-20-1103-504-2

KI-A1 to KI-D3  
LONGITUDINAL SECTION  
SCALE HOR 1:500  
VER 1:50



#### GENERAL NOTES:

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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION  
**STORMWATER**  
LONGITUDINAL SECTION  
SHEET 3 OF 10

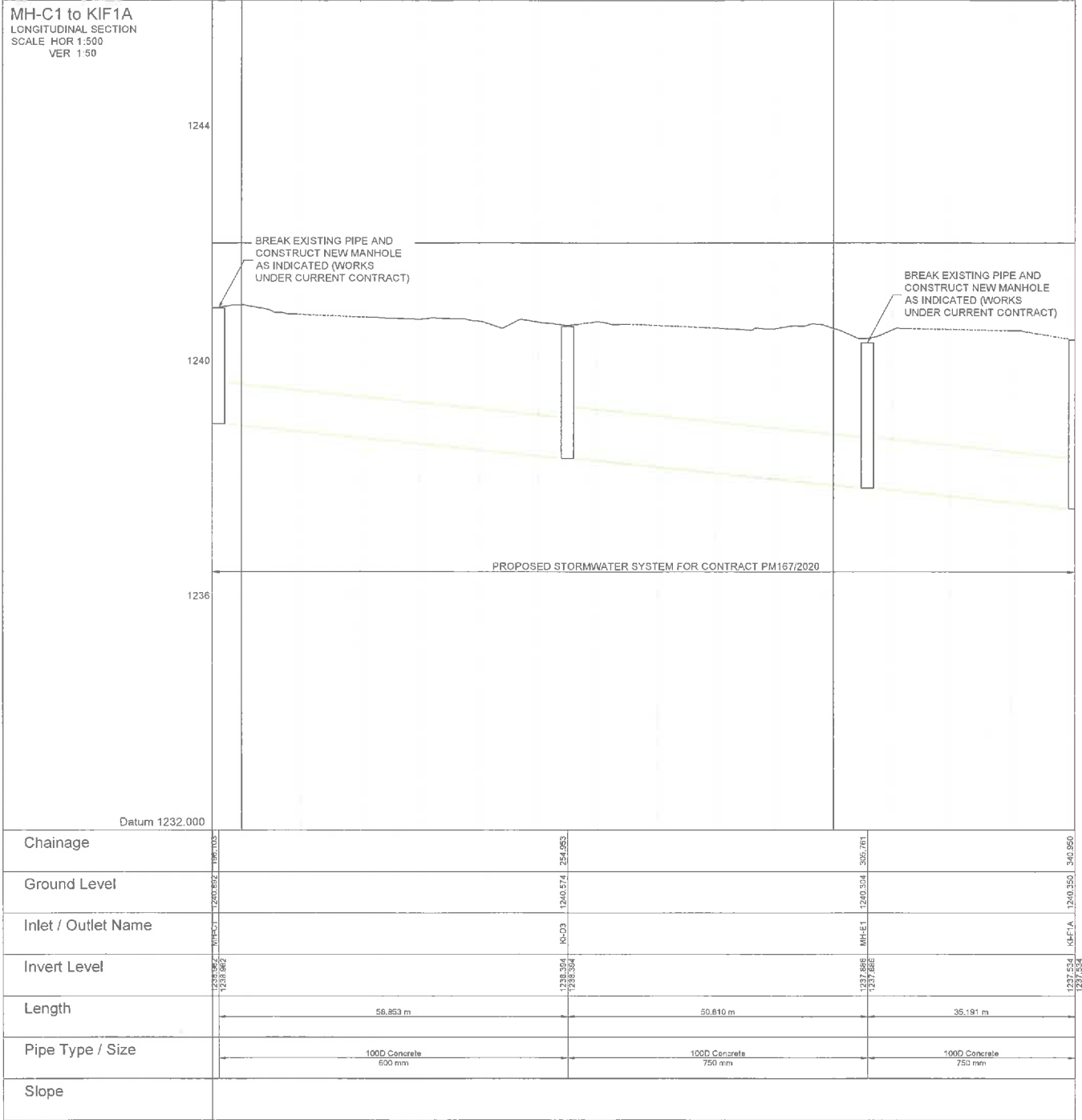
DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670158	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.:

NT05-20-1103-504-3

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-26	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bender EX1 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

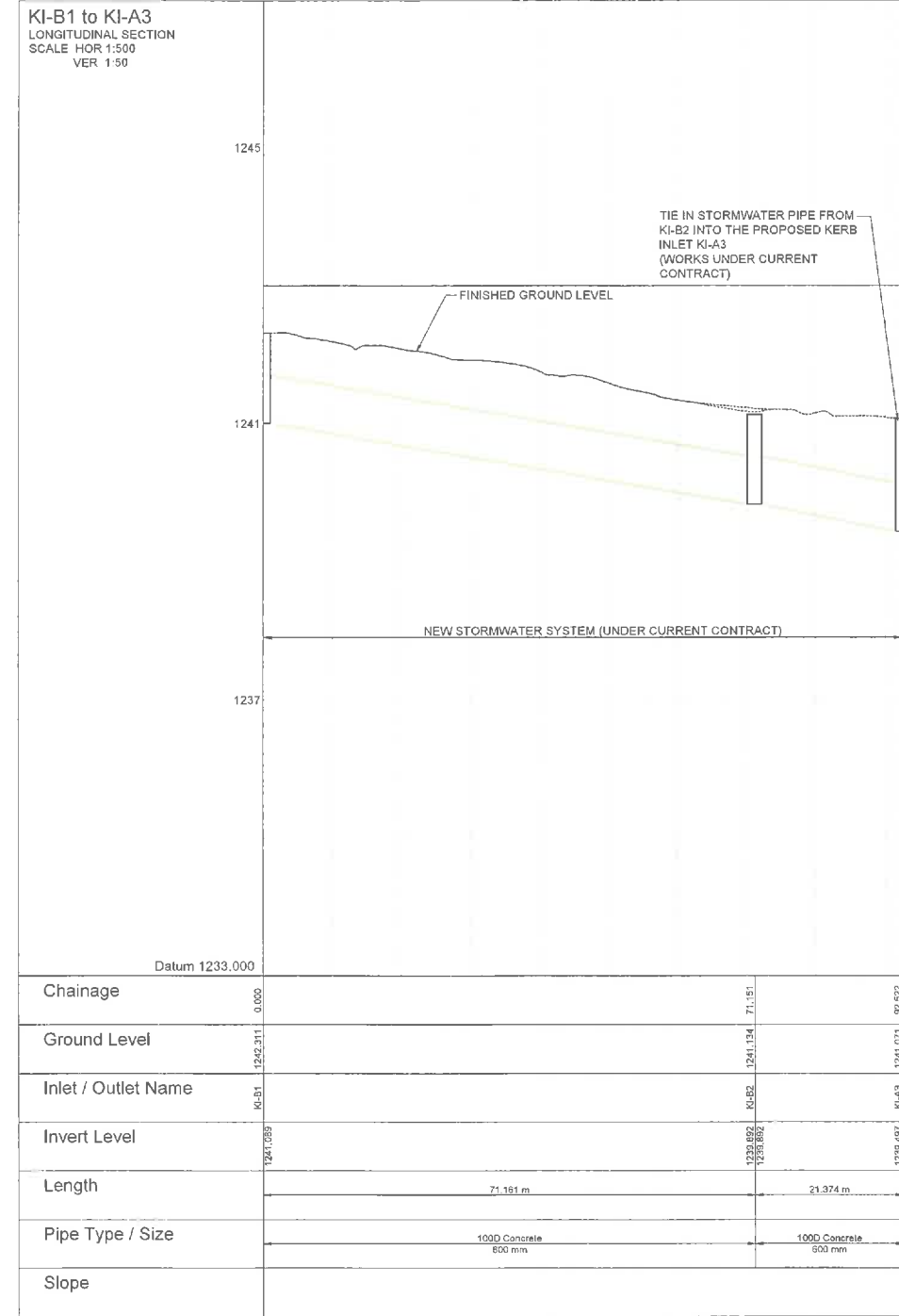
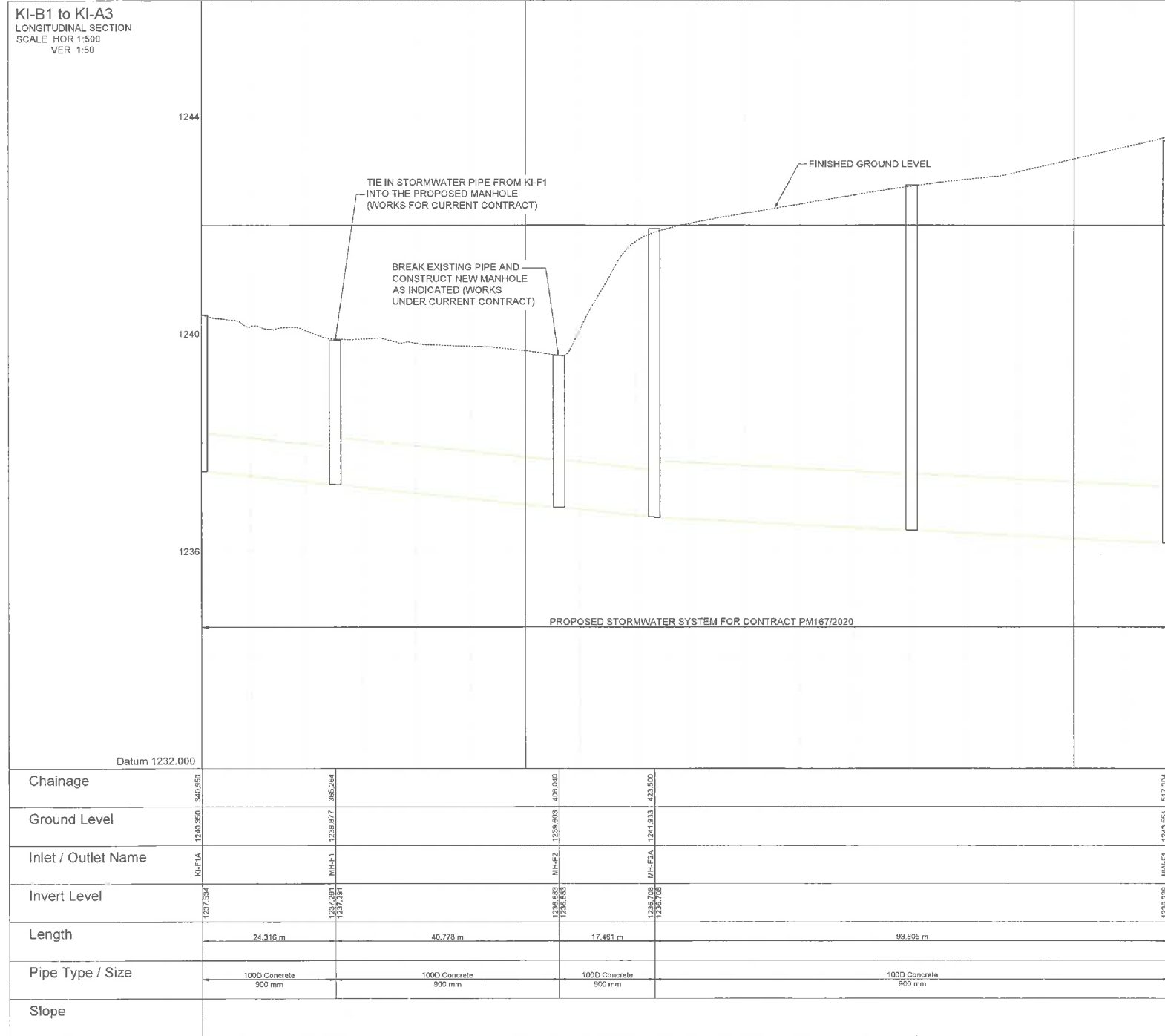
ROADS & TRANSPORT

DRAWING DESCRIPTION

STORMWATER  
LONGITUDINAL SECTION  
SHEET 4 OF 10

DESIGNED BY: M. MOTSEPE	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  26 NOVEMBER 2020
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  26 NOVEMBER 2020
PROJECT NO.: 1103	DATE: 25 NOVEMBER 2020
DRAWING NO.: NT05-20-1103-504-4	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



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**REVISION INFORMATION**

No.	DATE	DESCRIPTION:	BY
F1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

**CLIENT**

**CITY OF Polokwane**  
NATURALLY PROGRESSIVE

**CONSULTANT**

**amce**  
AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0659  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

**PROJECT DESCRIPTION**  
NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

**DISCIPLINE**  
ROADS & TRANSPORT

**DRAWING DESCRIPTION**  
STORMWATER  
LONGITUDINAL SECTION  
SHEET 5 OF 10

**DESIGNED BY:**  
M. MOTSEPE

**SIGNATURE AND DATE:**  
25 NOVEMBER 2020

**CHECKED BY:**  
K. MANGXABA  
Pr Tech. Eng.:201670156

**SIGNATURE AND DATE:**  
25 NOVEMBER 2020

**APPROVED BY:**  
M. GWABA  
Pr Eng.:20140479

**SIGNATURE AND DATE:**  
25 NOVEMBER 2020

**PROJECT NO.:**  
1103

**DATE:**  
25 NOVEMBER 2020

**DRAWING NO.:**  
NT05-20-1103-504-5

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1

GENERAL NOTES:

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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

STORMWATER  
LONGITUDINAL SECTION  
SHEET 6 OF 10

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	<b>25 NOVEMBER 2020</b>

DRAWING NO.:

NT05-20-1103-504-6

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1

KI-C1 to MH-C1  
LONGITUDINAL SECTION  
SCALE HOR 1:500  
VER 1:50

1245

1241

1237

Datum 1233.000

Chainage	0.000	69.275	87.150
Ground Level	1241.976	1240.984	1240.362
Inlet / Outlet Name	KI-C1	KI-C2	MH-C1
Invert Level	1238.731	1238.887	1238.882
Length	69.283 m	17.868 m	
Pipe Type / Size	100D Concrete 600 mm	100D Concrete 600 mm	
Slope			

KI-D1 to KI-D3  
LONGITUDINAL SECTION  
SCALE HOR 1:500  
VER 1:50

1244

1240

1236

Datum 1232.000

Chainage	0.000	63.352	84.657
Ground Level	1241.574	1240.523	1240.574
Inlet / Outlet Name	KI-D1	KI-D2	KI-D3
Invert Level	1238.274	1238.513	1238.354
Length	63.366 m	21.664 m	
Pipe Type / Size	100D Concrete 600 mm	100D Concrete 600 mm	
Slope			

TIE IN STORMWATER PIPE FROM  
KI-D2 INTO THE PROPOSED KERB  
INLET KI-D3  
(WORKS UNDER CURRENT  
CONTRACT)

FINISHED GROUND LEVEL -

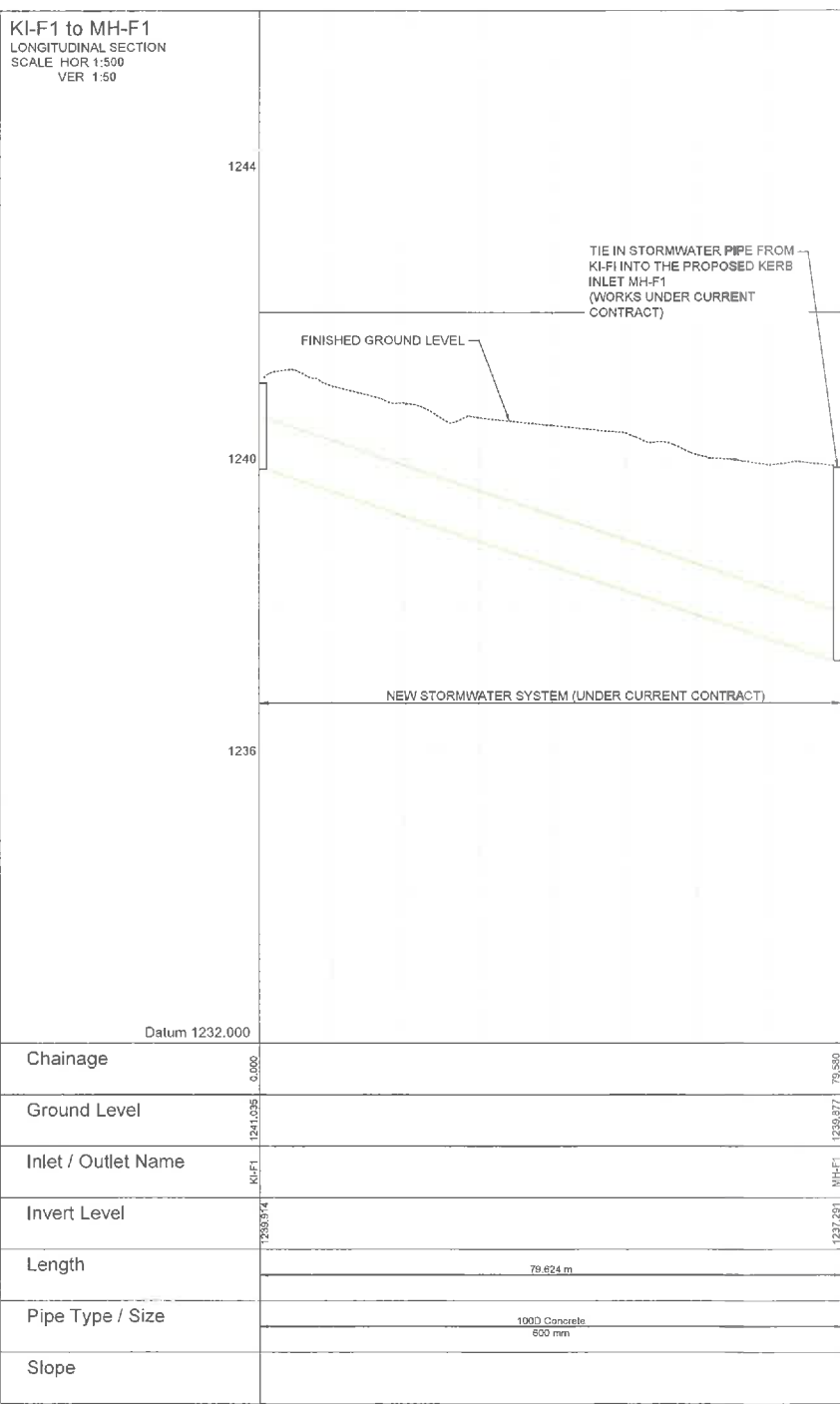
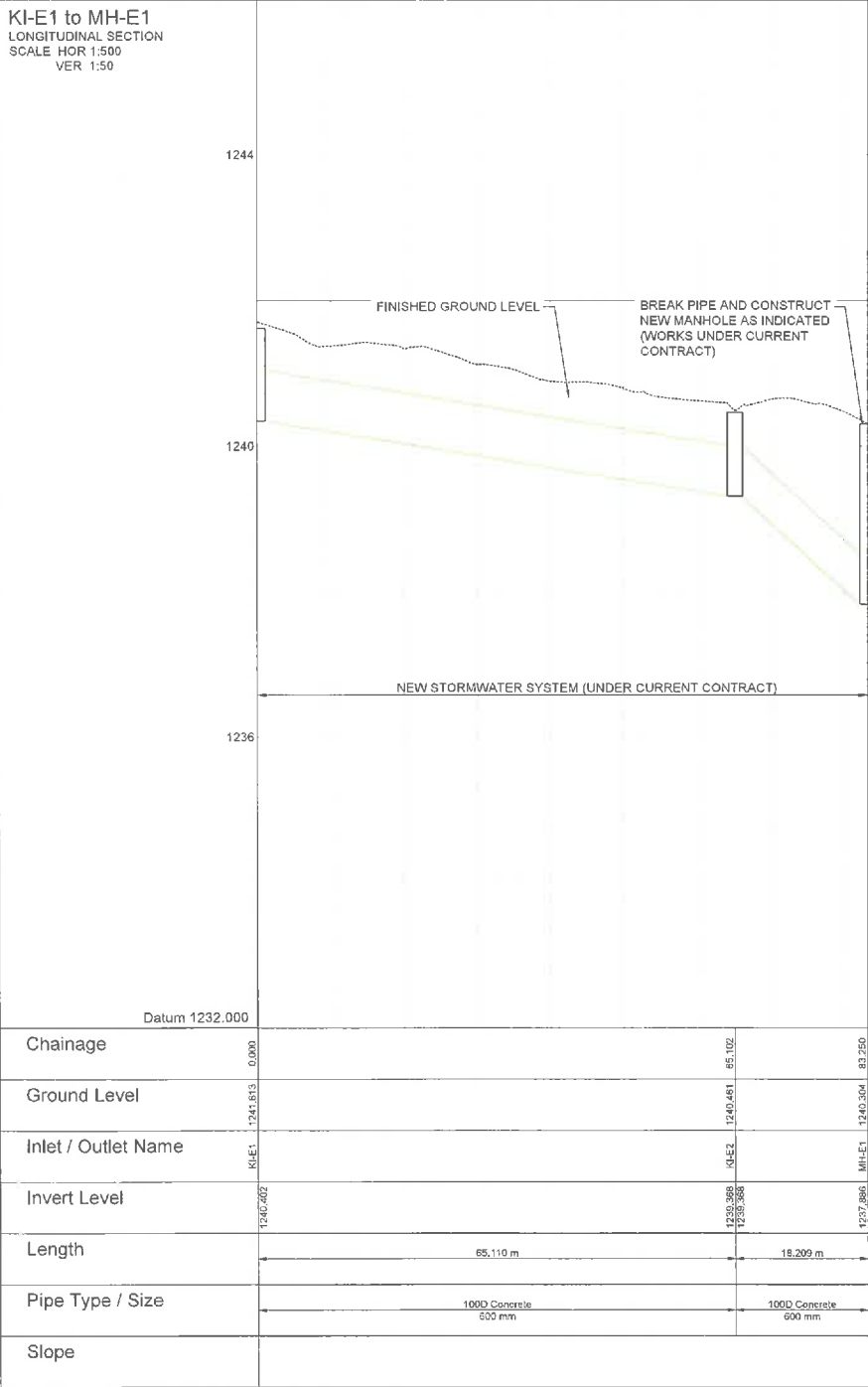
FINISHED GROUND LEVEL

BREAK EXISTING PIPE AND  
CONSTRUCT NEW MANHOLE  
AS INDICATED (WORKS  
UNDER CURRENT CONTRACT)

NEW STORMWATER SYSTEM (UNDER CURRENT CONTRACT)

NEW STORMWATER SYSTEM (UNDER CURRENT CONTRACT)





GENERAL NOTES:

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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelthing Street  
Bendor Ext 30,  
Polokwane, 0659  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

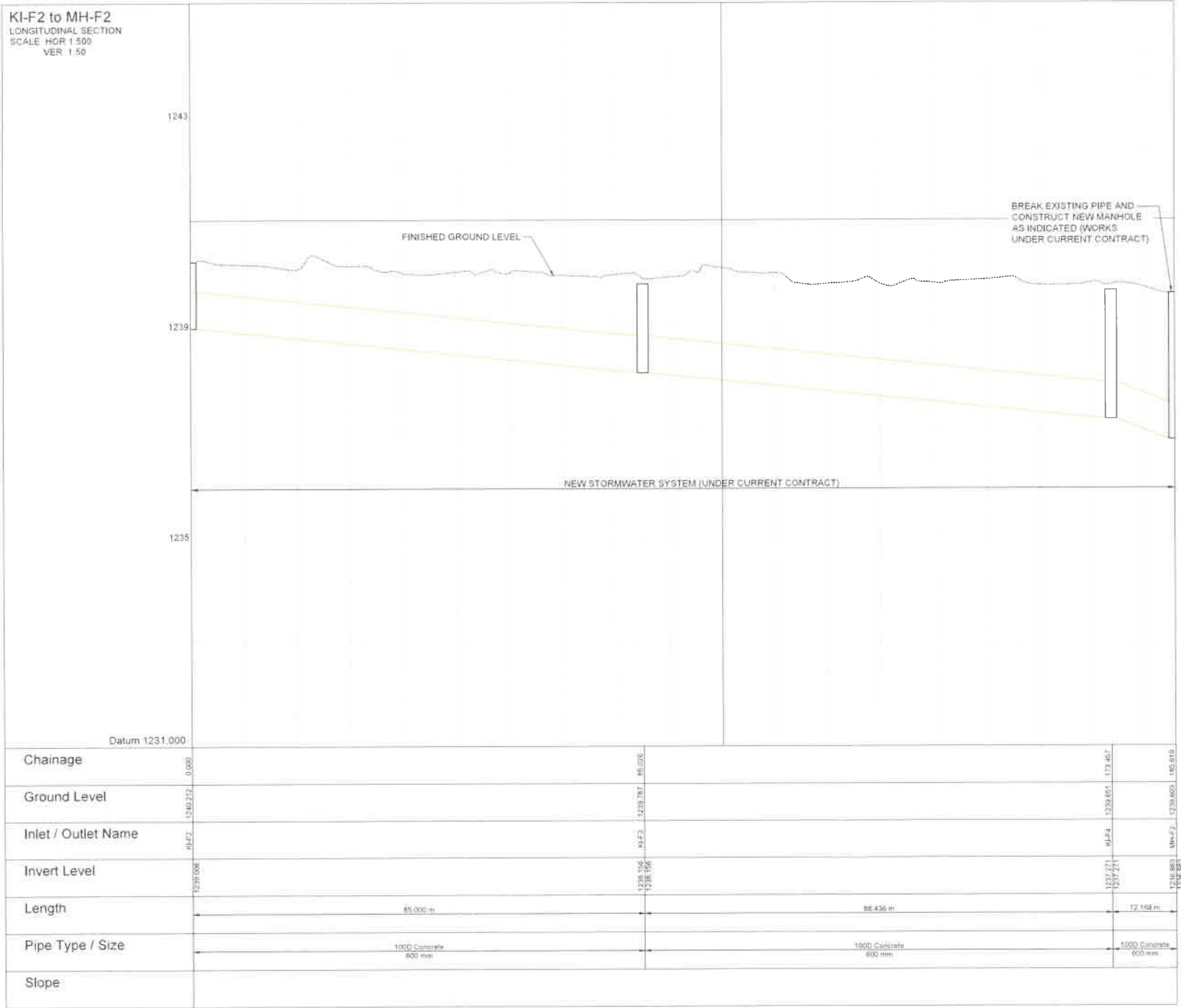
DRAWING DESCRIPTION

STORMWATER  
LONGITUDINAL SECTION  
SHEET 7 OF 10

DESIGNED BY: M. MOTSEPE	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: 1103	DATE: 25 NOVEMBER 2020
DRAWING NO.:	

NT05-20-1103-504-7

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



GENERAL NOTES:

1. DRAWINGS MUST NOT BE SCALED.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL PROJECT SPECIFICATIONS.
3. ALL AMBIGUITIES ON DRAWINGS MUST BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE INDICATED.)
5. DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.

REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

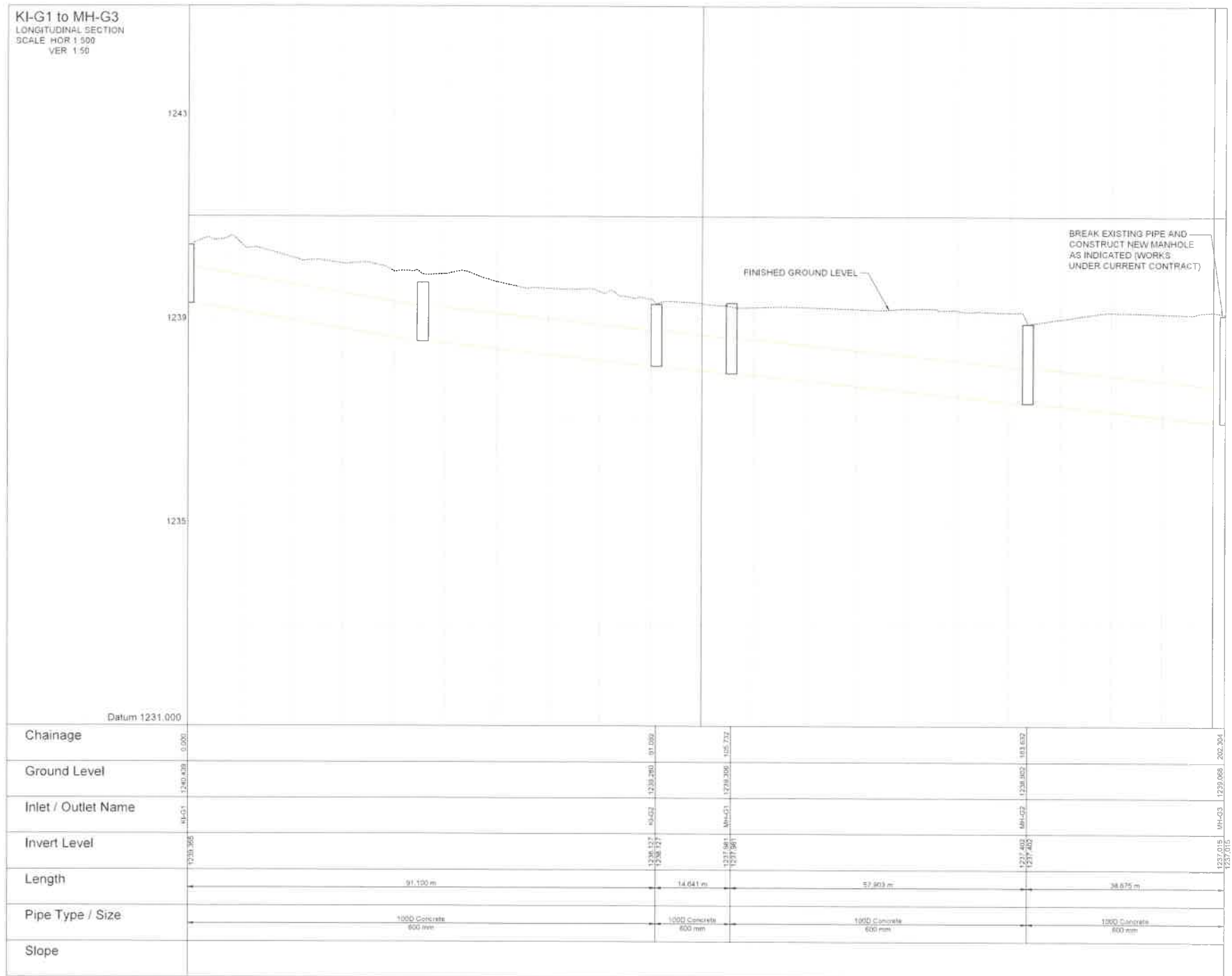
STORMWATER  
LONGITUDINAL SECTION  
SHEET 8 OF 10

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>28 NOVEMBER 2020</b>

DRAWING NO.:

NT05-20-1103-504-8

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



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#### REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-29	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neething Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

#### PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

#### DISCIPLINE

ROADS & TRANSPORT

#### DRAWING DESCRIPTION

STORMWATER  
LONGITUDINAL SECTION  
SHEET 9 OF 10

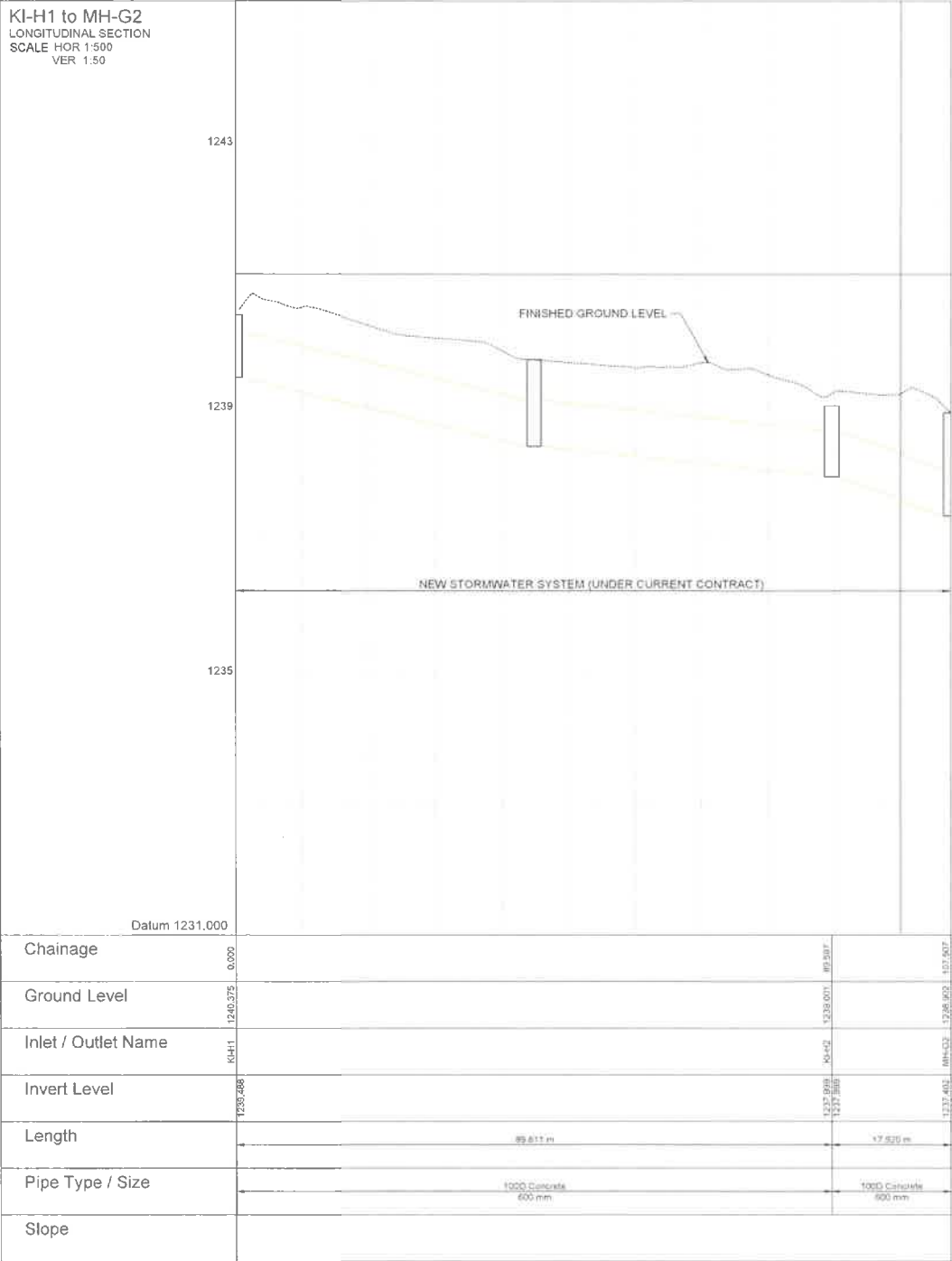
DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.:

NT05-20-1103-504-9

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





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- ALL BENCHMARKS TO BE CONFIRMED ON SITE.

REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelthing Street  
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PROJECT DESCRIPTION




NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

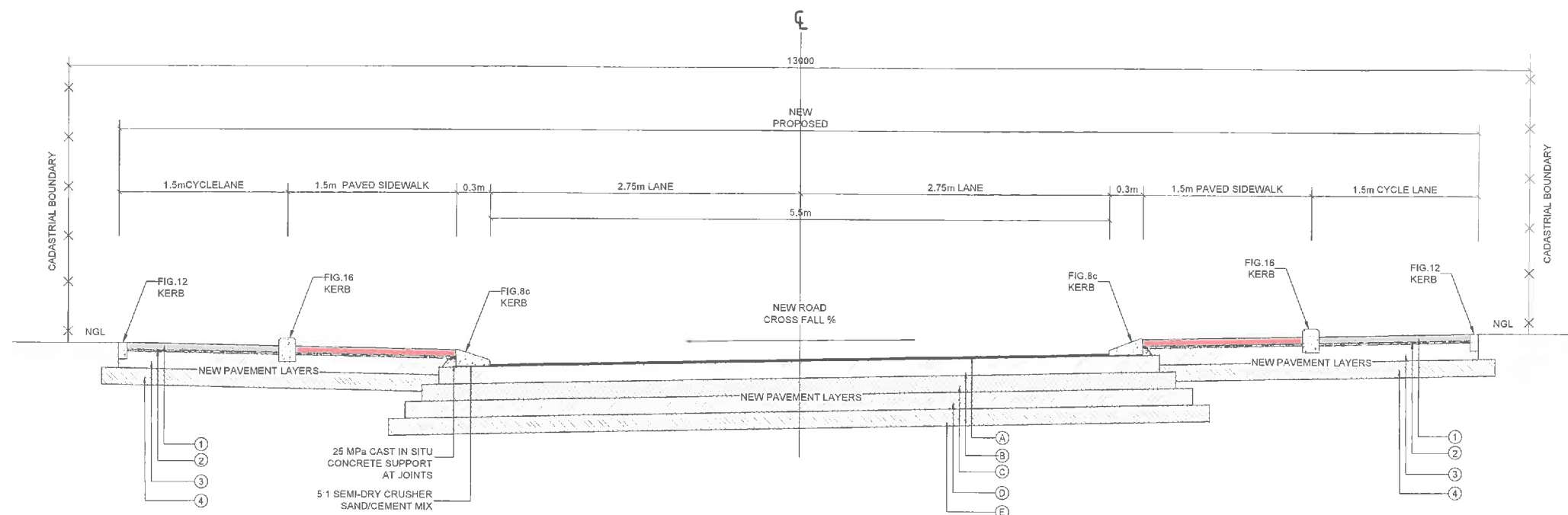
ROADS & TRANSPORT

DRAWING DESCRIPTION

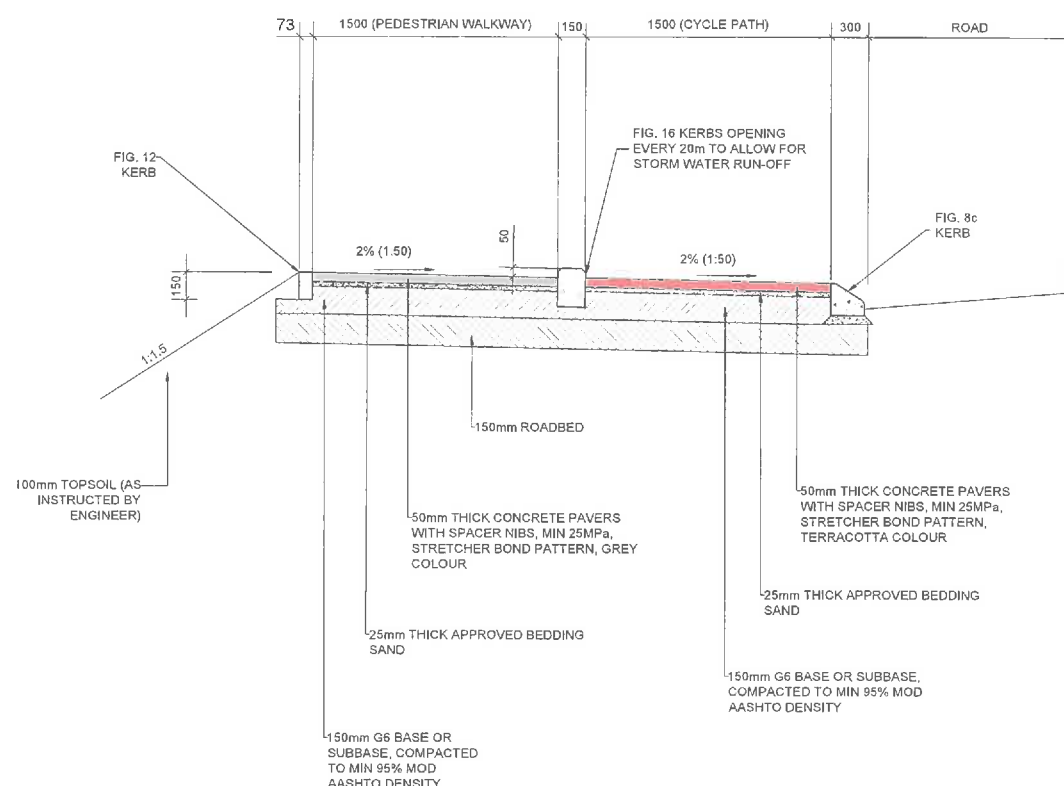
STORMWATER  
LONGITUDINAL SECTION  
SHEET 10 OF 10

DESIGNED BY: M. MOTSEPE	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: 1103	DATE: 25 NOVEMBER 2020
DRAWING NO.: NT05-20-1103-504-10	

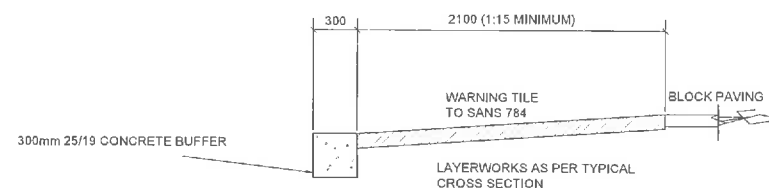
SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



**TYPICAL SECTION THROUGH 5.5m WIDE ROAD AND NMT**  
SCALE: 1:25



**TYPICAL NMT CROSS SECTION**  
SCALE 1:20



**KERB RAMP - FRONT ELEVATION**  
SCALE 1:25

#### NOTES:

- ALL RAMP ARE UNIQUE AND SHALL BE CAREFULLY PLANNED FOR AND SET OUT WITH THE ENGINEER BEFORE CONSTRUCTION.
- TACTILES TO BE PRECAST TO 30MPa AND JOINTS TO BE FILLED WITH 3:1 RIVER SANDY CEMENT MIXTURE.
- GRADIENTS:  
1:12 ONLY IN EXCEPTIONAL CIRCUMSTANCES (MUST OBTAIN APPROVAL)  
1:15 IS ACCEPTABLE  
1:20 IS PREFERABLE (IF WIDTH ALLOWS)
- TACTILE PAVING MUST BE LAID AT ALL CONTROLLED AND UNCONTROLLED CROSSING POINTS.
- THE TACTILE SURFACE AT ALL PEDESTRIAN CROSSINGS MUST BE LAID "IN LINE" WITH THE ANGLE OF THE CROSSING AND NOT "IN LINE" WITH THE KERB LINE.
- ALL TACTILE PAVING SHALL BE SANS APPROVED.

#### PAVING LAYERS FOR 3.0m CYCLE AND PEDESTRIAN LANE

- 50mm INTERLOCK PAVING BLOCKS.
- 25mm THICK APPROVED BEDDING SAND.
- 150mm G6 BASE, GRANULAR MATERIAL COMPACTED TO 95% MOD AASHTO.
- 150mm IN-SITU SUB-BASE COMPACTED TO 93% MOD AASHTO.

#### NOTES:

- WHERE THE EXISTING ROAD FOLLOWS A NORMAL CAMBER THE NMT FACILITY SHALL SLOPE TOWARDS THE EXISTING ROAD AT A MINIMUM SLOPE OF 2% (1:50).
- WHERE THE EXISTING ROAD IS IN SUPERELEVATION THE NMT FACILITY SHALL CORRESPOND TO THE SUPERELEVATION OF THE EXISTING ROAD AND TRANSITION SHALL BE DONE OVER A LENGTH OF 20m.

#### PAVING LAYERS FOR 5.5m WIDE ROAD

- 30 mm AC CONTINUOUSLY GRADED ASPHALT SURFACE
- 150mm G5 BASE, GRANULAR MATERIAL COMPACTED TO 97% MOD AASHTO.
- 150 G6 SUBBASE, CEMENT STABILIZED TO C4 GRANULAR BASE COMPACTED TO 95% MOD AASHTO.
- 150mm G7 SELECTED LAYER, NATURAL GRAVEL MATERIAL COMPACTED TO 93% MOD AASHTO.
- 150mm IN-SITU SUBGRADE COMPACTED TO 90% MOD AASHTO.

#### GENERAL NOTES:

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- ALL BENCHMARKS TO BE CONFIRMED ON SITE.

#### REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

PAVEMENT DESIGN AND DETAILS

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGKABA</b> Pr Tech, Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

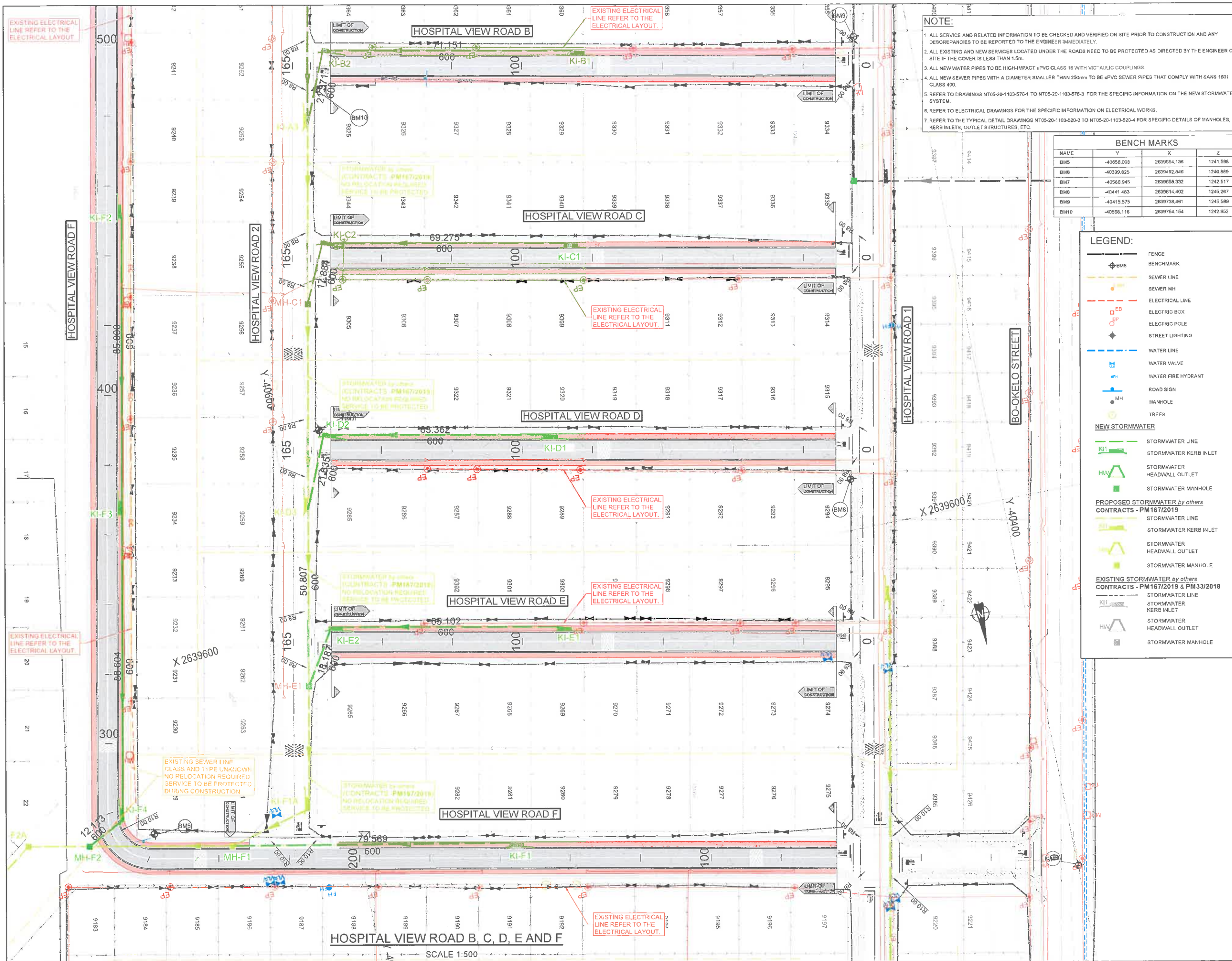
DRAWING NO.:

NT05-20-1103-505-1

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1







**NOTE:**

1. ALL SERVICE AND RELATED INFORMATION TO BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
2. ALL EXISTING AND NEW SERVICES LOCATED UNDER THE ROADS NEED TO BE PROTECTED AS DIRECTED BY THE ENGINEER ON SITE IF THE COVER IS LESS THAN 1.5m.
3. ALL NEW WATER PIPES TO BE HIGH-IMPACT uPVC CLASS 16 WITH VICTALIC COUPLINGS.
4. ALL NEW SEWER PIPES WITH A DIAMETER SMALLER THAN 250mm TO BE uPVC SEWER PIPES THAT COMPLY WITH SANS 1601 CLASS 400.
5. REFER TO DRAWINGS NT05-20-1103-576-1 TO NT05-20-1103-576-3 FOR THE SPECIFIC INFORMATION ON THE NEW STORMWATER SYSTEM.
6. REFER TO ELECTRICAL DRAWINGS FOR THE SPECIFIC INFORMATION ON ELECTRICAL WORKS.
7. REFER TO THE TYPICAL DETAIL DRAWINGS NT05-20-1103-520-3 TO NT05-20-1103-520-4 FOR SPECIFIC DETAILS OF MANHOLES, KERB INLETS, OUTLET STRUCTURES, ETC.

BENCH MARKS			
NAME	Y	X	Z
BM5	-40856.008	2639554.136	1241.598
BM6	-40399.825	2639492.846	1246.889
BM7	-40586.945	2639556.332	1242.517
BM8	-40441.483	2639614.402	1245.267
BM9	-40415.575	2639738.481	1245.589
BM10	-40558.116	2639754.154	1242.952

**LEGEND:**

- FENCE
- BENCH MARK
- SEWER LINE
- SEWER MH
- ELECTRICAL LINE
- ELECTRIC BOX
- ELECTRIC POLE
- STREET LIGHTING
- WATER LINE
- WATER VALVE
- WATER FIRE HYDRANT
- ROAD SIGN
- MANHOLE
- TREES

**NEW STORMWATER**

- STORMWATER LINE
- STORMWATER KERB INLET
- STORMWATER HEADWALL OUTLET
- STORMWATER MANHOLE

**PROPOSED STORMWATER by others CONTRACTS - PM167/2019**

- STORMWATER LINE
- STORMWATER KERB INLET
- STORMWATER HEADWALL OUTLET
- STORMWATER MANHOLE

**EXISTING STORMWATER by others CONTRACTS - PM167/2019 & PM33/2018**

- STORMWATER LINE
- STORMWATER KERB INLET
- STORMWATER HEADWALL OUTLET
- STORMWATER MANHOLE

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**REVISION INFORMATION**

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

**CLIENT**

**CONSULTANT**

**PROJECT DESCRIPTION**

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

**DISCIPLINE**

ROADS & TRANSPORT

**DRAWING DESCRIPTION**

SERVICES LAYOUT PLAN  
SHEET 2 OF 3

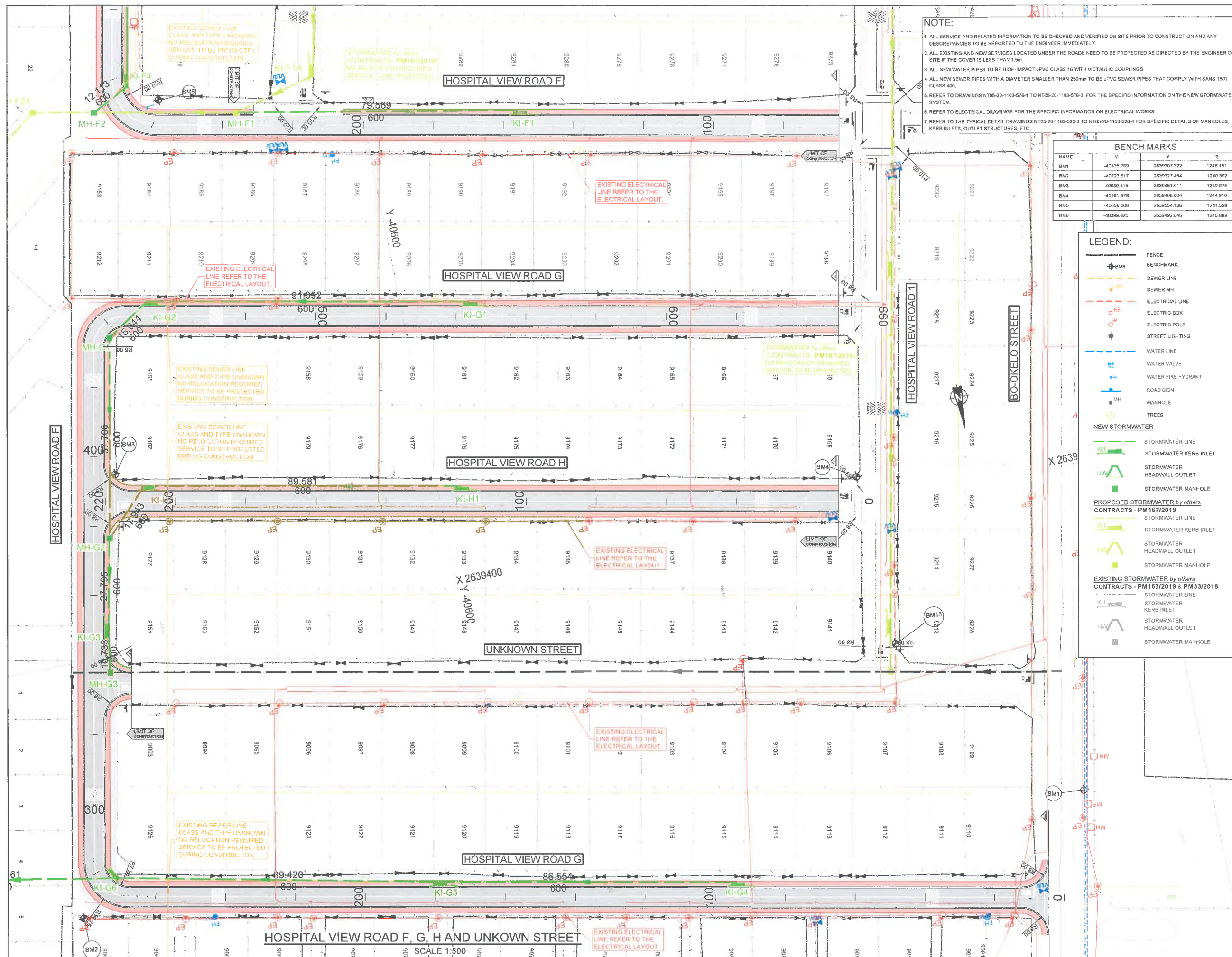
DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020

PROJECT NO.:  
**1103**

DRAWING NO.:  
**NT05-20-1103-510-2**

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
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PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

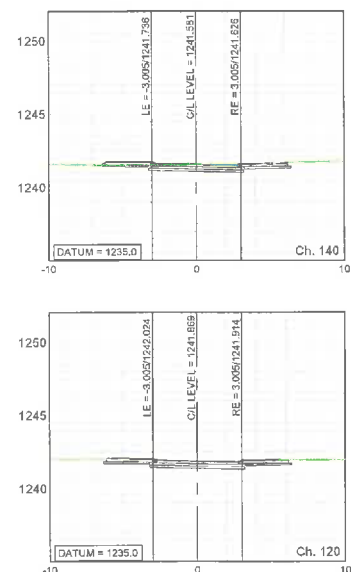
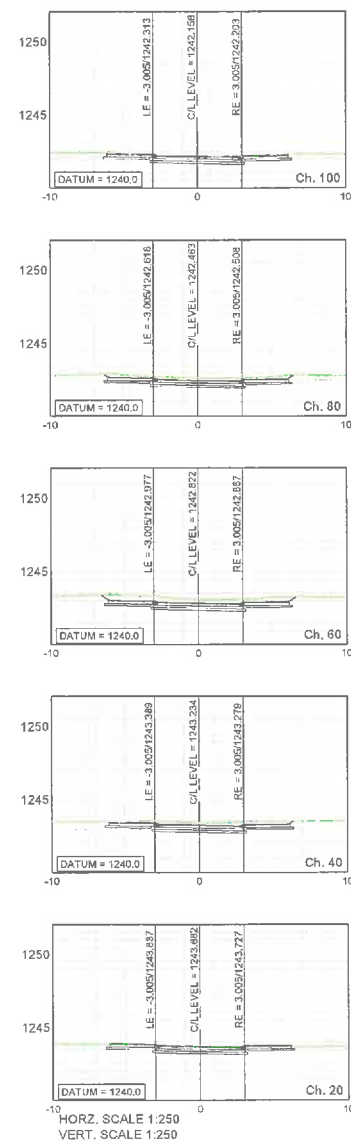
ROADS & TRANSPORT

DRAWING DESCRIPTION

#### SERVICES LAYOUT PLAN SHEET 3 OF 3

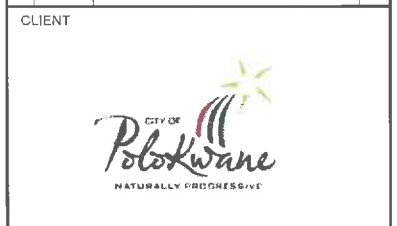
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CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>
DRAWING NO.: <b>NT05-20-1103-510-3</b>	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



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- SOL - SETTING OUT LINE  
RE - LEFT EDGE  
LE - RIGHT EDGE

REVISION INFORMATION			
No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	



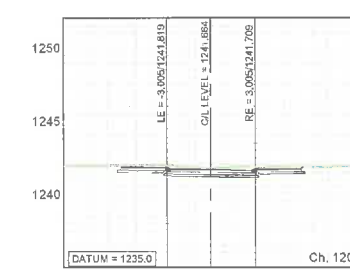
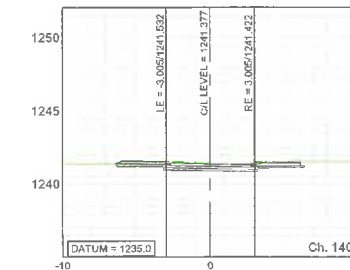
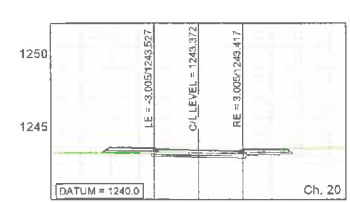
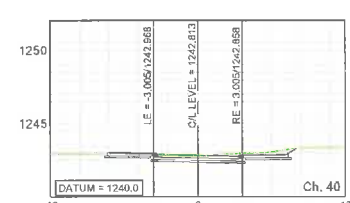
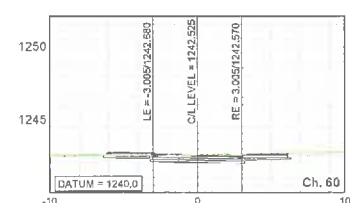
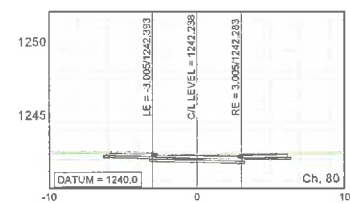
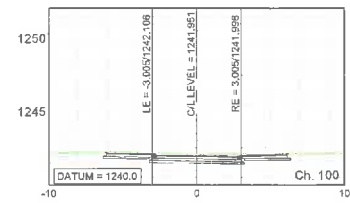
PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE  
ROADS & TRANSPORT

DRAWING DESCRIPTION  
CROSS SECTIONS  
HOSPITAL VIEW ROAD A  
SHEET 1 OF 8

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.: <b>NT05-20-1103-518-1</b>		
SCALE <b>AS SHOWN</b>	SHEET SIZE <b>A1</b>	REVISION <b>F1</b>



HORZ. SCALE 1:250  
VERT. SCALE 1:250

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SOL - SETTING OUT LINE  
RE - LEFT EDGE  
LE - RIGHT EDGE

#### REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CITY OF  
**Polokwane**  
NATURALLY PROGRESSIVE

CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext. 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE  
ROADS & TRANSPORT

DRAWING DESCRIPTION  
**CROSS SECTIONS**  
HOSPITAL VIEW ROAD B  
SHEET 2 OF 8


DESIGNED BY:  
**M. MOTSEPE**

SIGNATURE AND DATE:  
  
25 NOVEMBER 2020

CHECKED BY:  
**K. MANGXABA**  
Pr Tech. Eng.:201570165

SIGNATURE AND DATE:  
  
25 NOVEMBER 2020

APPROVED BY:  
**M. GWABA**  
Pr Eng.:20140479

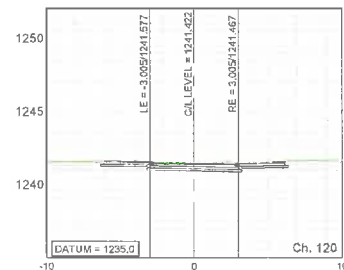
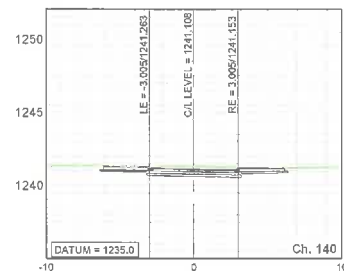
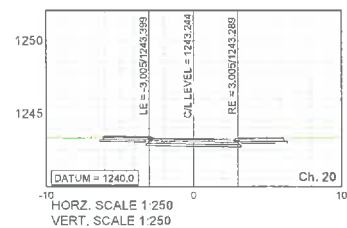
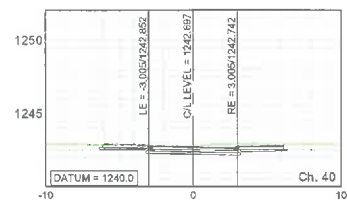
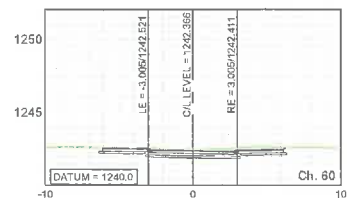
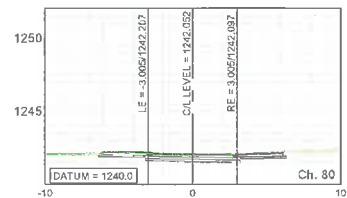
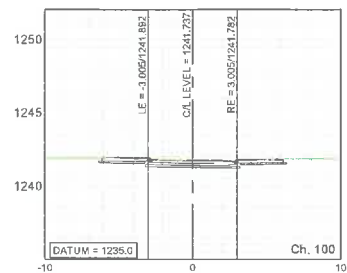
SIGNATURE AND DATE:  
  
25 NOVEMBER 2020

PROJECT NO.:  
**1103**

DATE:  
25 NOVEMBER 2020

DRAWING NO.:  
**NT05-20-1103-518-2**

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



#### GENERAL NOTES:

- DRAWINGS MUST NOT BE SCALED.
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- ALL BENCHMARKS TO BE CONFIRMED ON SITE.

SOL - SETTING OUT LINE  
RE - LEFT EDGE  
LE - RIGHT EDGE

#### REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-26	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0899  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

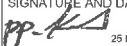


NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

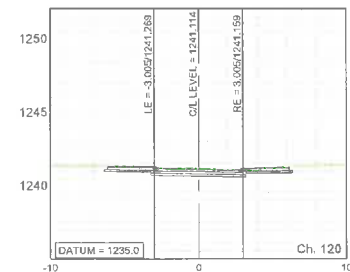
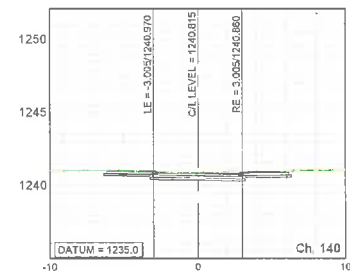
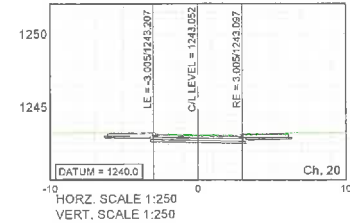
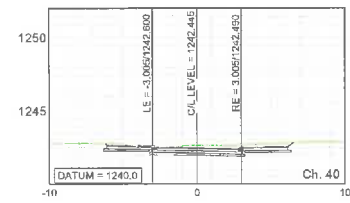
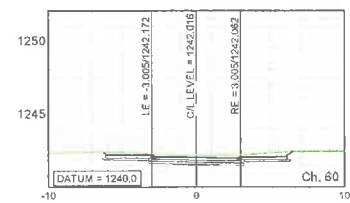
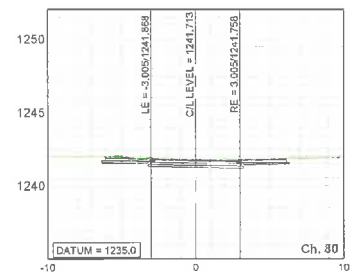
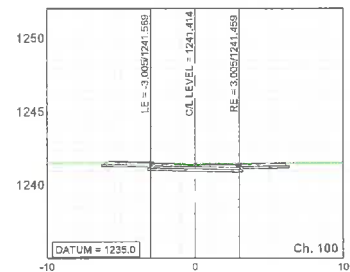
DRAWING DESCRIPTION

CROSS SECTIONS  
HOSPITAL VIEW ROAD C  
SHEET 3 OF 8

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: 25 NOVEMBER 2020
DRAWING NO.: <b>NT05-20-1103-518-3</b>	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





#### GENERAL NOTES:

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SOL - SETTING OUT LINE  
RE - LEFT EDGE  
LE - RIGHT EDGE

#### REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bendor Ext 30  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

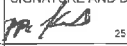


ROADS & TRANSPORT

DRAWING DESCRIPTION

CROSS SECTIONS

HOSPITAL VIEW ROAD D

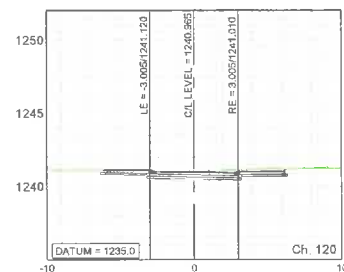
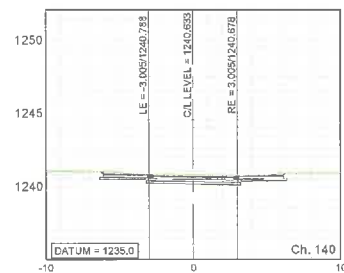
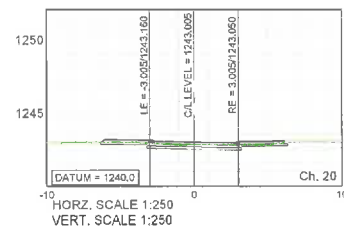
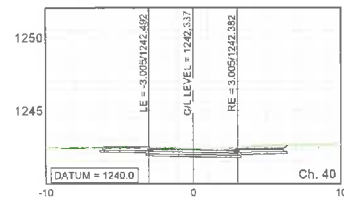
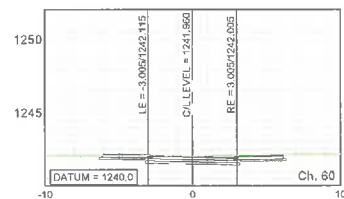
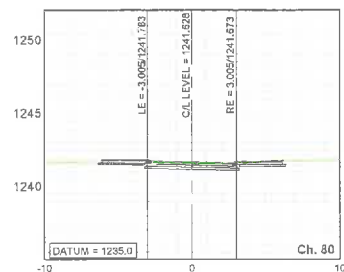
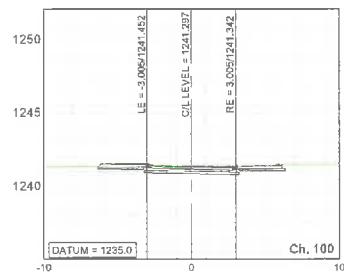
SHEET 4 OF 8

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: 25 NOVEMBER 2020

DRAWING NO.:

NT05-20-1103-518-4

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neethling Street  
Bender Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION




NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
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SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

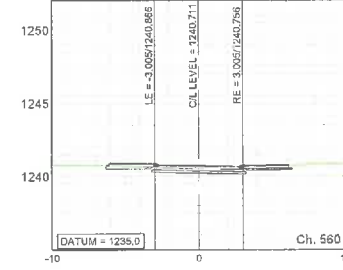
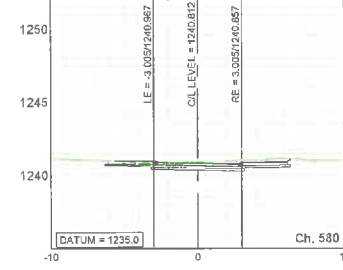
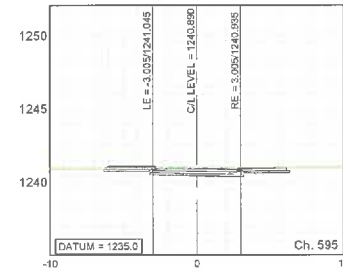
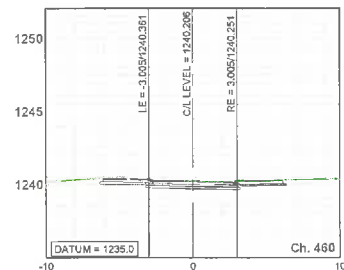
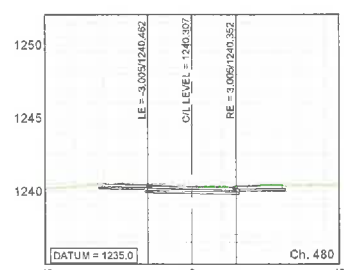
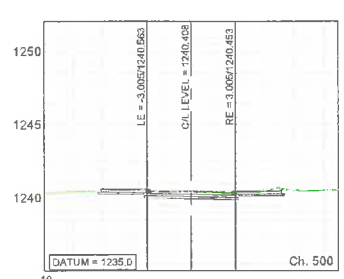
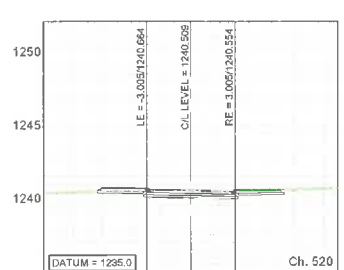
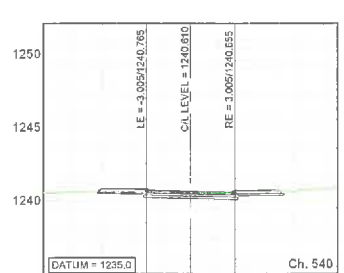
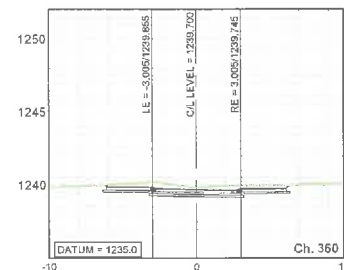
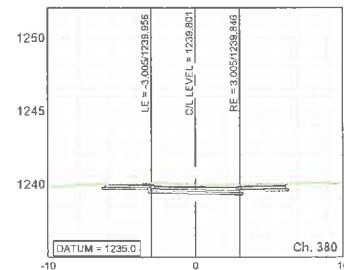
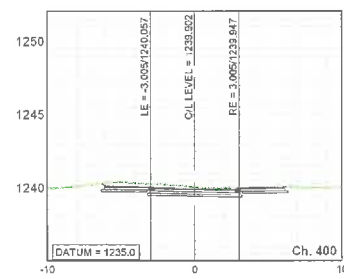
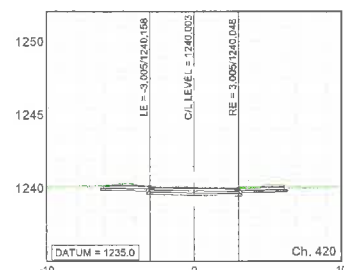
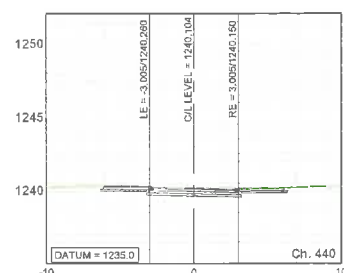
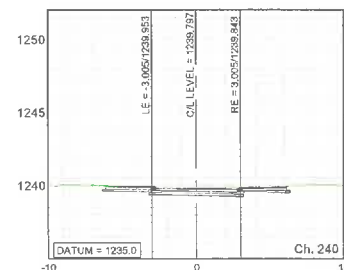
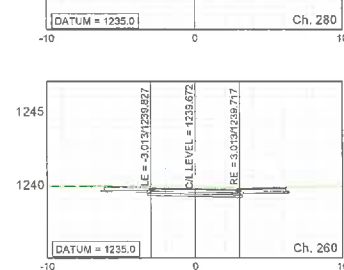
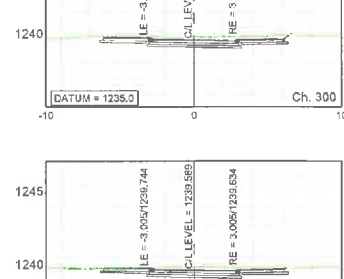
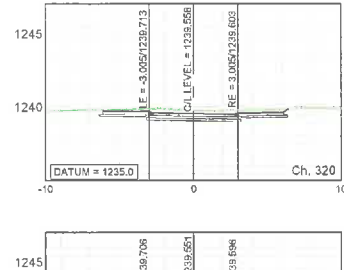
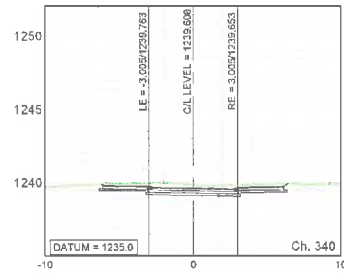
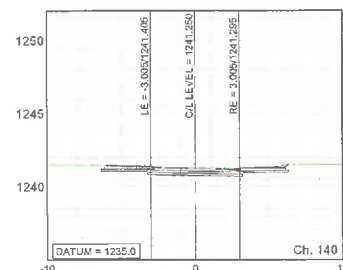
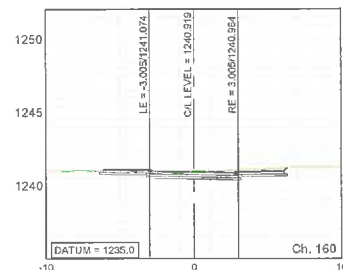
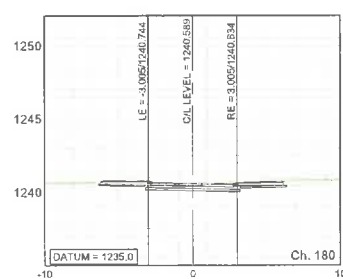
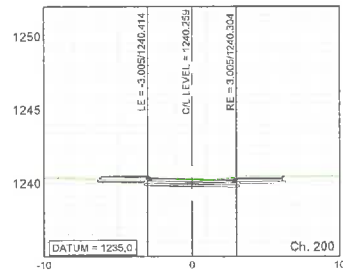
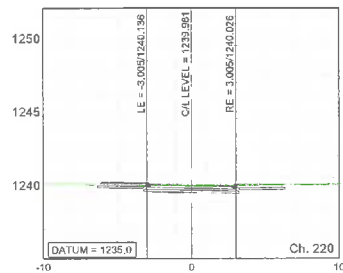
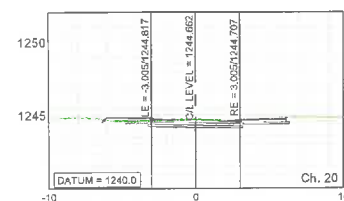
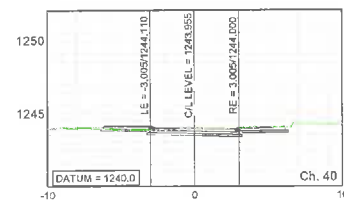
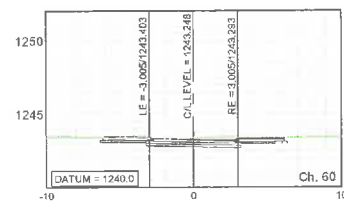
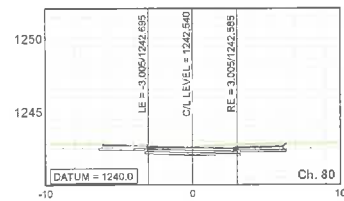
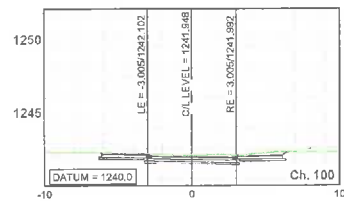
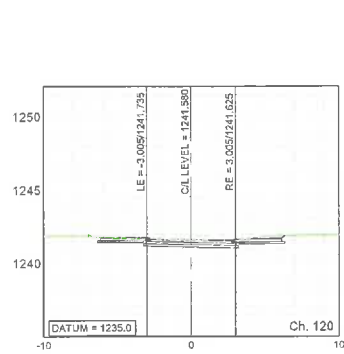
CROSS SECTIONS  
HOSPITAL VIEW ROAD E  
SHEET 5 OF 8

DESIGNED BY: M. MOTSEPE	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: 1103	DATE: 25 NOVEMBER 2020

DRAWING NO.:

NT05-20-1103-518-5

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



HORZ. SCALE 1:250  
VERT. SCALE 1:250

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SOL - SETTING OUT LINE  
RE - LEFT EDGE  
LE - RIGHT EDGE

#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelthing Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

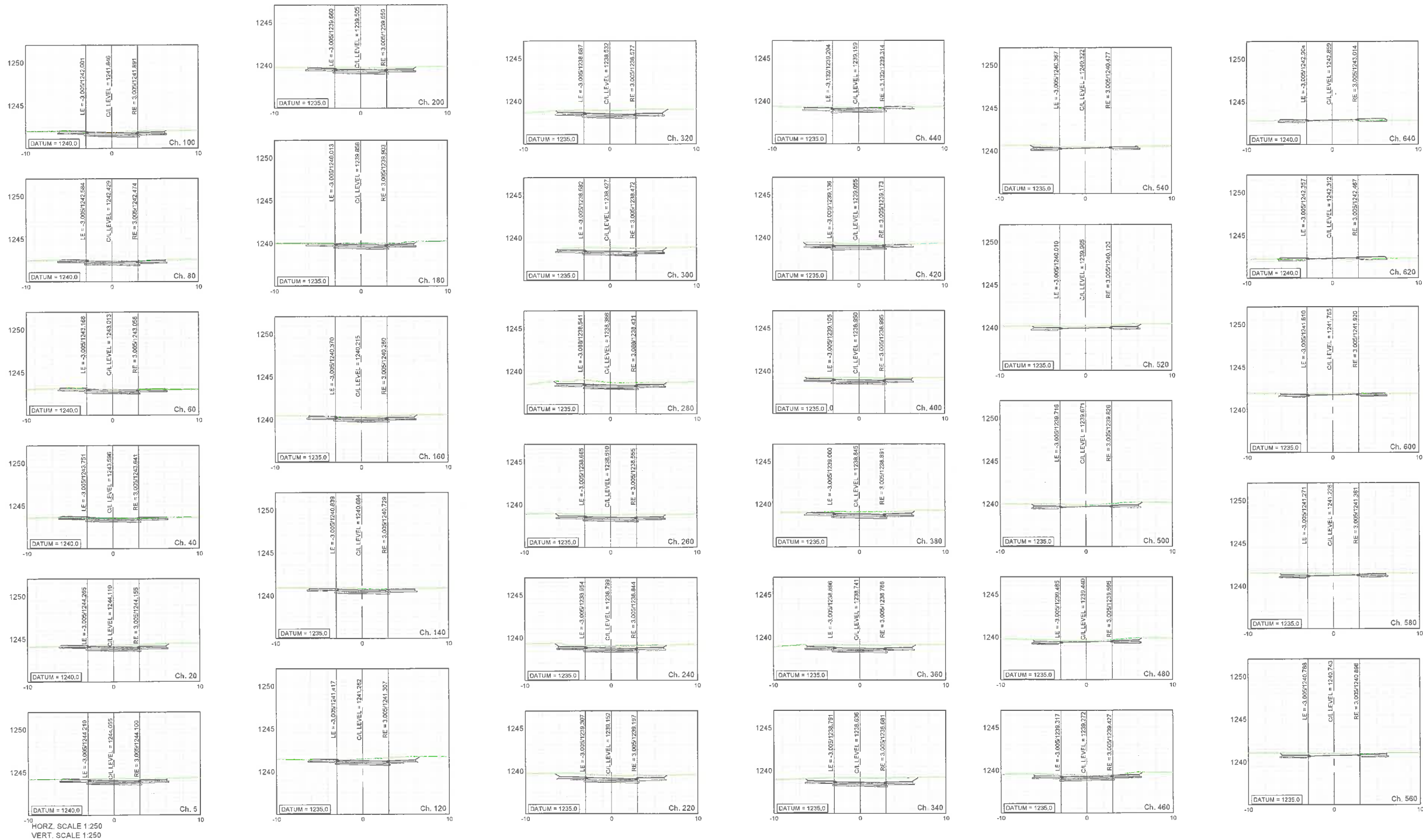
DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION  
**CROSS SECTIONS**  
HOSPITAL VIEW ROAD F  
SHEET 6 OF 8

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: 25 NOVEMBER 2020
DRAWING NO.: <b>NT05-20-1103-518-6</b>	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



# GENERAL NOTES:

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SOL - SETTING OUT LINE  
 RL - LEFT EDGE  
 RE - RIGHT EDGE

## REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
 19 Neeltjies Street  
 Bendor Ext 30,  
 Polokwane, 0699  
 Tel No. (015) 295 9914 Fax No. (015) 295 9941

## PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
 TRANSPORT FACILITIES AND ROAD UPGRADE  
 FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
 SESHEGO FOR CITY OF POLOKWANE.

## DISCIPLINE

ROADS & TRANSPORT

## DRAWING DESCRIPTION

CROSS SECTIONS  
 HOSPITAL VIEW ROAD G  
 SHEET 7 OF 8

DESIGNED BY:  
**M. MOTSEPE**

SIGNATURE AND DATE:  
*M. Motsepe* 25 NOVEMBER 2020

CHECKED BY:  
**K. MANGXABA**

SIGNATURE AND DATE:  
*K. Mangxaba* 25 NOVEMBER 2020

APPROVED BY:  
**M. GWABA**

SIGNATURE AND DATE:  
*M. Gwaba* 25 NOVEMBER 2020

PROJECT NO.:  
**1103**

DATE:  
 25 NOVEMBER 2020

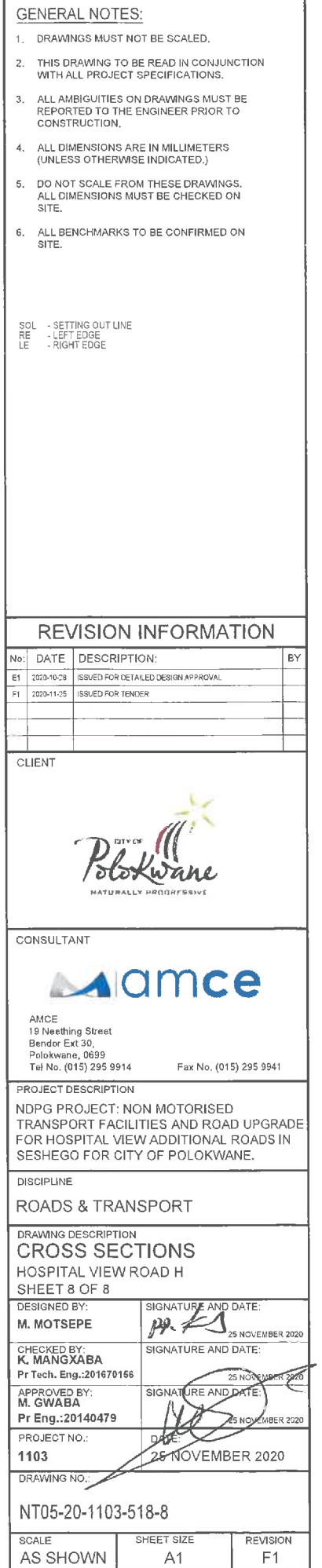
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**NT05-20-1103-518-7**

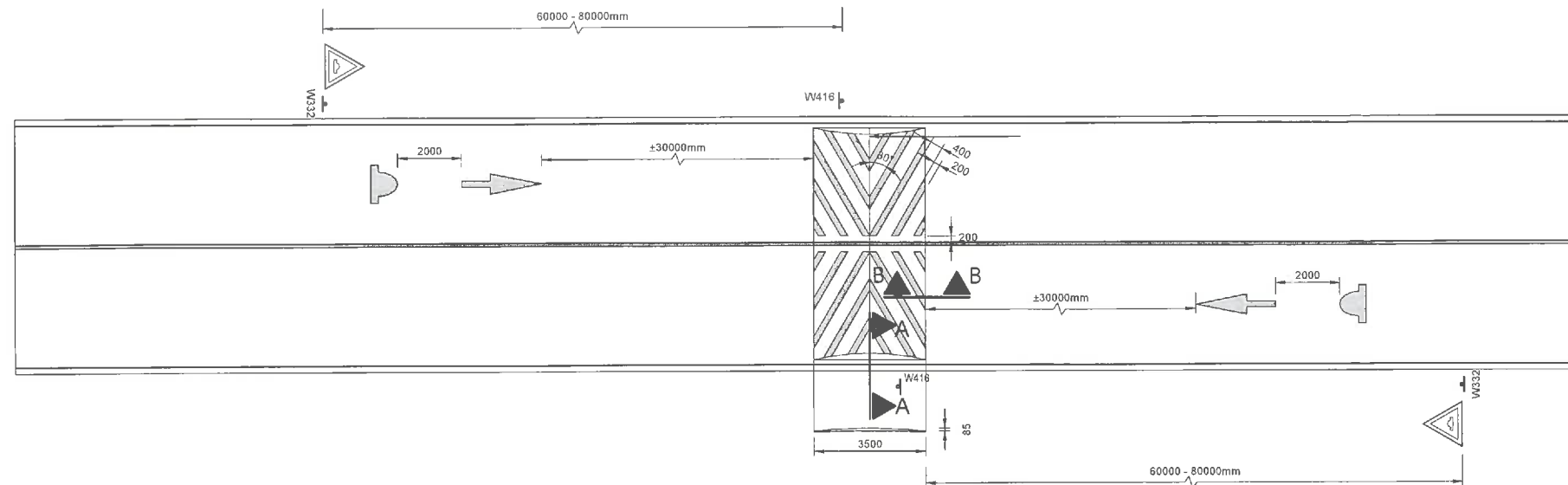
SCALE  
**AS SHOWN**

SHEET SIZE  
**A1**

REVISION  
**F1**







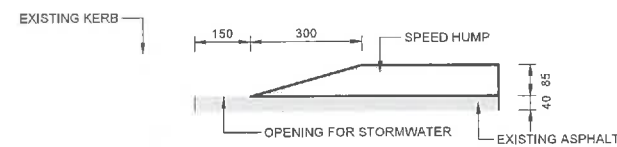
PLAN OF SPEED HUMP  
SCALE 1:100

## NOTES

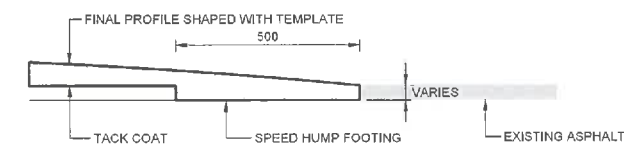
### CONSTRUCTION METHOD:

1. SETTING OUT OF HUMP - FEW DAYS BEFORE CONSTRUCTION.
  2. SAW CUTS ONE TO TWO DAYS BEFORE CONSTRUCTION.
- ON CONSTRUCTION DAY:
3. REMOVE 500mm ASPHALT STRIPS.
  4. START ERECTING ROAD SIGNS AND PAINT WARNING ROAD MARKING.
  5. PLACE ASPHALT IN STRIPS AND COMPACT WITH TWO PASSES WITHOUT VIBRATOR.
  6. PLACE TEMPLATES - BOTH SIDES OF ONE LANE AT A TIME.
  7. PLACE ASPHALT AND RAKE TILL SLIGHTLY HIGHER THAN TEMPLATES.
  8. SHAPE ASPHALT WITH STRAIGHT EDGE (CHANNEL SECTION 6000mm LONG).
  9. REMOVE TEMPLATES AND COMPACT WITHOUT VIBRATOR (THREE PASSES).
  10. MEASURE PROFILE AND RECTIFY IF NECESSARY.
  11. FINAL COMPACTION WITH THREE TO FOUR PASSES WITH VIBRATOR.
  12. PLACE ROAD STUDS.
  13. PAINT SPEED HUMP THE NEXT DAY.

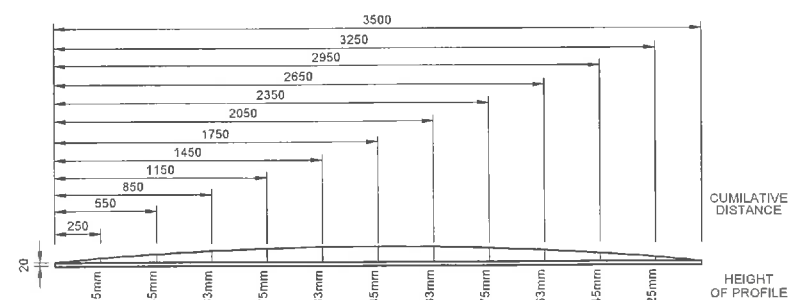
NOTE:  
THE TRAFFIC ENGINEERING AND OPERATION SECTION MUST ALWAYS BE CONSULTED TO ASSIST WITH THE SETTING OUT OF SPEED HUMPS.



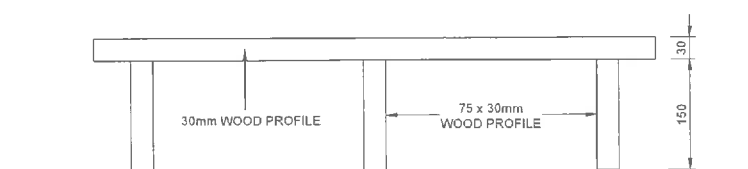
SECTION A-A:  
CONSTRUCTION DETAIL OF SPEED HUMP  
SCALE 1:10



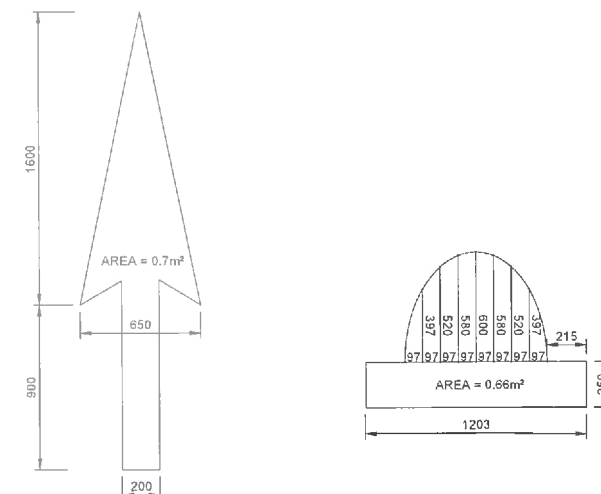
SECTION B-B:  
CONSTRUCTION DETAIL OF SPEED HUMP  
SCALE 1:10



SIDE ELEVATION  
SCALE 1:20



PLAN  
TEMPLATE DETAIL FOR CONSTRUCTION OF SPEED HUMP  
SCALE 1:5



DETAIL OF SPEED HUMP ROAD MARKING  
SCALE 1:20

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## REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

## CLIENT



## CONSULTANT



AMCE  
19 Neelthing Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

## PROJECT DESCRIPTION




NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

## DISCIPLINE

ROADS & TRANSPORT

## DRAWING DESCRIPTION

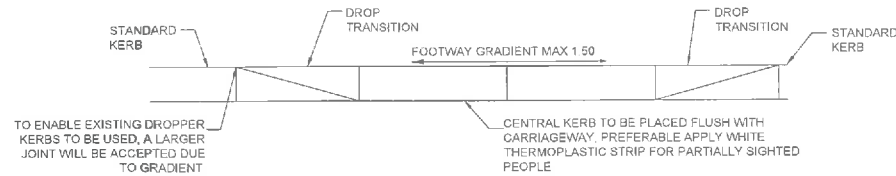
TYPICAL SPEED HUMP DETAIL

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.:

NT05-20-1103-520-1

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



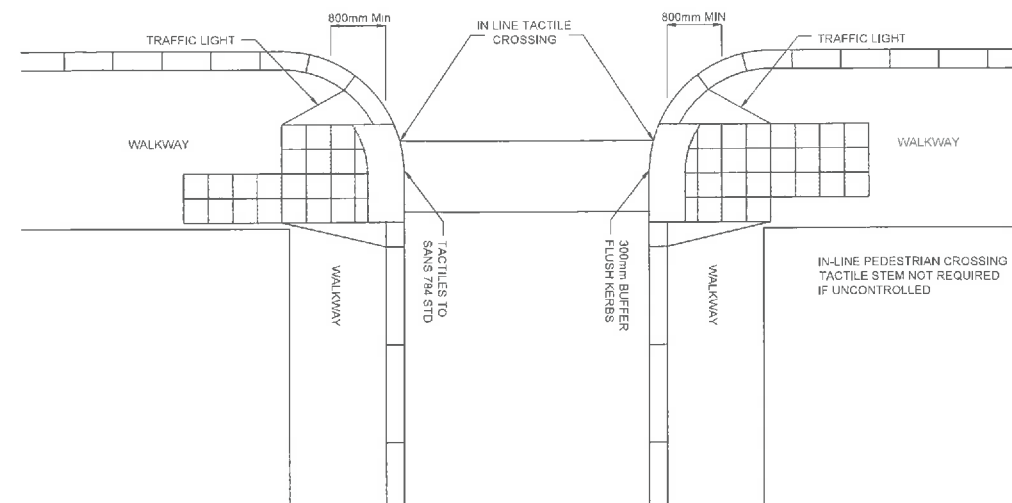
FRONT ELEVATION (B-B)

SCALE 1:30

## NOTES:

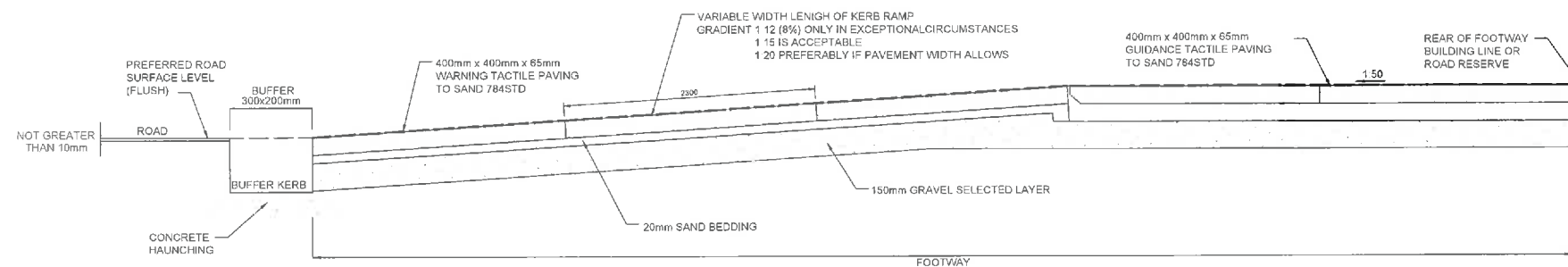
### SPECIFICATION OF PEDESTRAIN RAMPS AT STREET CROSSINGS

- PEDESTRAIN RAMPS SHALL BE WITH 30 MPa PRECAST CONCRETE BLOCKS, 330mm x 330mm x 100mm WITH SURFACE FINISH AS SPECIFIED, CONSTRUCTED AND THE TRANSITION SECTION SHALL BE CAST IN-SITU CLASS 25/19 CONCRETE, 100mm THICK.
- THE PRECAST CONCRETE BLOCKS SHALL BE PLACED WITH JOINTS NOT SMALLER THAN 5mm OR EXCEEDING 10mm.
- THE JOINTS SHALL BE FILLED WITH MORTAR CONSISTING OF ONE PART CEMENT AND THREE PARTS APPROVED SAND, MEASURED PER VOLUME.
- THE JOINT BETWEEN THE KERB'S CAST IN-SITU CHANNEL (EXISTING OR NEW) AND THE CONCRETE BLOCKS SHALL BE FILLED WITH A 3:1 RMER SAND / CEMENT MORTAR. WHERE THIS JOINT EXCEEDS 25mm, IN WIDTH CLASS 25/19 IN-SITU CONCRETE MUST BE USED FOR FILLING.
- RAMPS SHALL BE NOT BE REQUIRED AT SLOPING KERBS.
- RAMPS SHALL BE BUILT AT THE INTERSECTION OF THE EXTENDED KERB LINES. EXCEPTIONS TO ACCOMMODATE ROAD SIDE FURNITURE, SUCH AS TRAFFIC LIGHTS, POWER LINES, ECT. MUST BE APPROVED BY THE ENGINEER.
- THE SLOPE OF THE RAMP SHALL NOT EXCEED 1:12. OTHERWISE, THE RAMP MUST BE EXTENDED.
- THE CROSS FALL OF THE KERB'S CAST IN-SITU CHANNEL AT THE RAMP SHALL NOT EXCEED 1:10 OTHERWISE THE CHANNEL AND THE KERB SHALL BE RECONSTRUCTED OVER A MINIMUM LENGTH OF 3m. CARE MUST BE TAKEN TO PREVENT POSSIBLE DRAINAGE PROBLEMS.
- THE CROSS FALL OF THE RAMP SHALL NOT EXCEED 1:50.
- IF NECESSARY, THE PAVING ADJACENT TO THE RAMP AND TRANSITION SECTIONS SHALL BE ADJUSTED TO AVOID SEVERE CHANGES IN GRADE BETWEEN THE PAVING AND THE TRANSITION SECTIONS.
- ALL IN-SITU CONCRETE SHALL BE CURED FOR AT LEAST 12 HOURS.
- THE FOUNDATION LAYER SHALL CONSIST OF A 100mm LAYER OF IN-SITU MATERIAL FINISHED TO THE REQUIRED GRADE LEVEL THE FOUNDATION LAYER SHALL BE COMPACTED TO AT LEAST 90% OF THE MODIFIED AASHTO DENSITY.
- THE BEDDING MATERIAL UNDER THE CONCRETE BLOCKS, SHALL CONSIST OF A 6:1 RIVER SAND / CEMENT MIXTURE.
- EXISTING PAVING MUST BE CUT IN STRAIGHT LINES, FOLLOWING AN APPROVED METHOD.



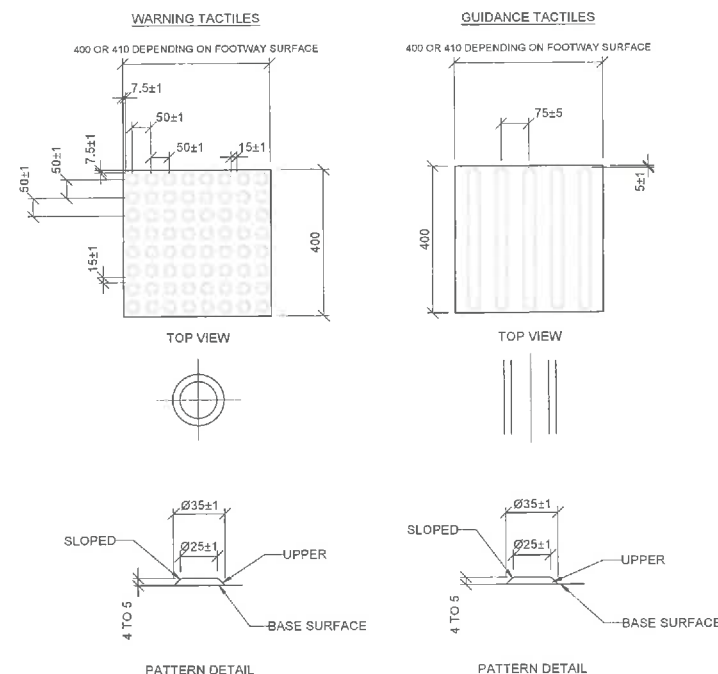
STANDARD UNCONTROLLED DROP KERB CROSSING

SCALE 1:30



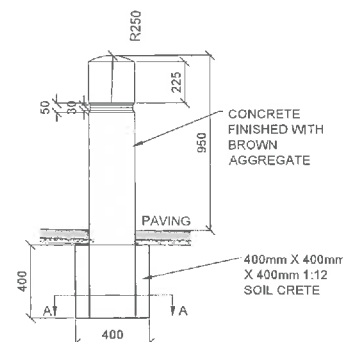
KERB RAMP A-A

SCALE 1:30



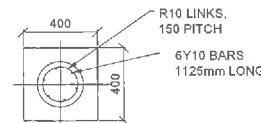
TACTILE AND GUIDANCE TILES TO SANS 784

SCALE 1:20



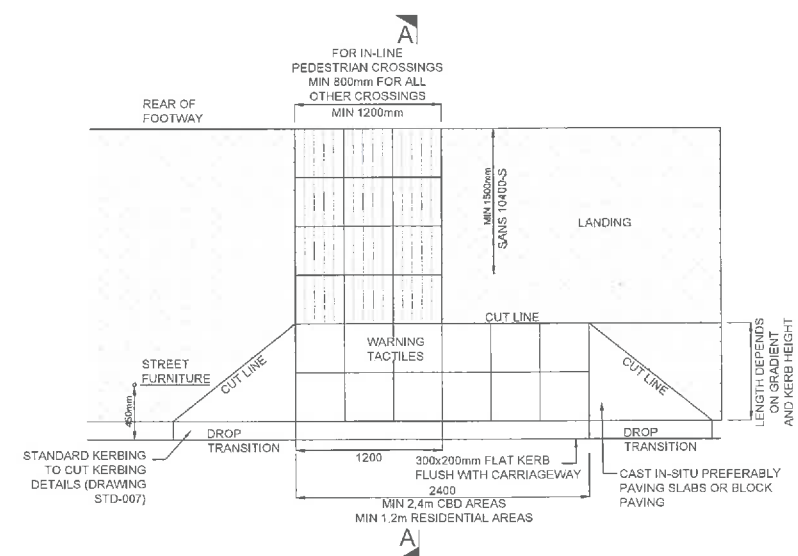
250 mm Ø CONCRETE BOLLARD FOR INTERSECTION

SCALE 1:20



SECTION A-A

SCALE 1:20



KERB RAMP - PLAN

SCALE 1:20

## GENERAL NOTES:

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- ALL BENCHMARKS TO BE CONFIRMED ON SITE.

## REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelburg Street  
Bendor Ext 30,  
Polokwane, 0599  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

## PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

## DISCIPLINE

ROADS & TRANSPORT

## DRAWING DESCRIPTION

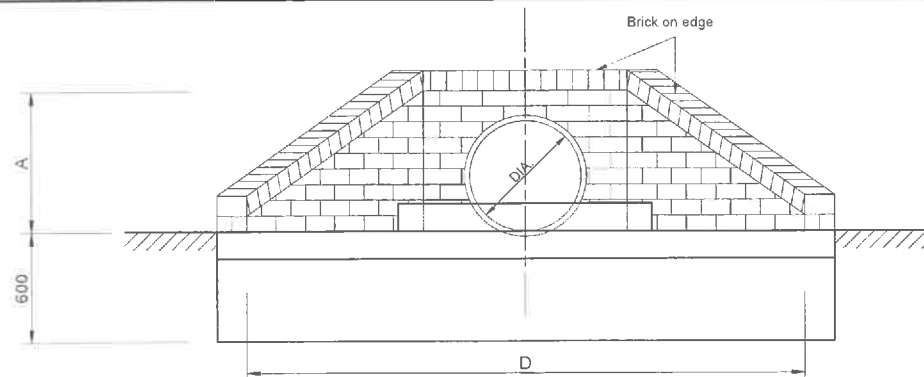
## PEDESTRIAN RAMP DETAIL

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  26 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.:

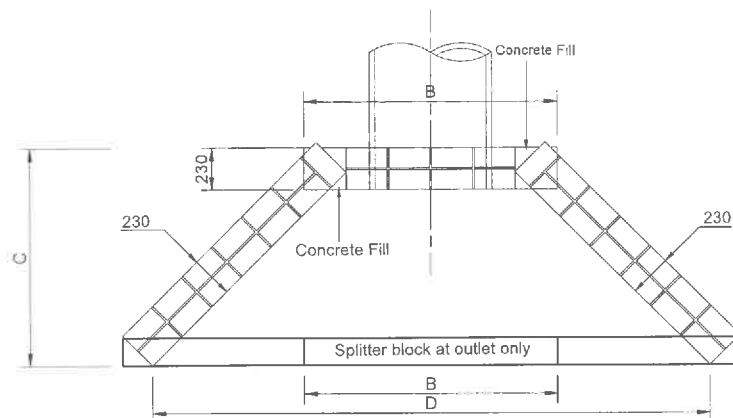
NT05-20-1103-520-2

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



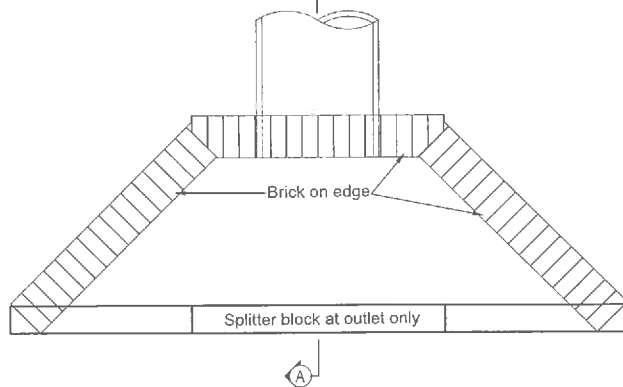
**FRONT ELEVATION OF PIPE CULVERT HEADWALL  
SINGLE PIPE**

SCALE: 1:20



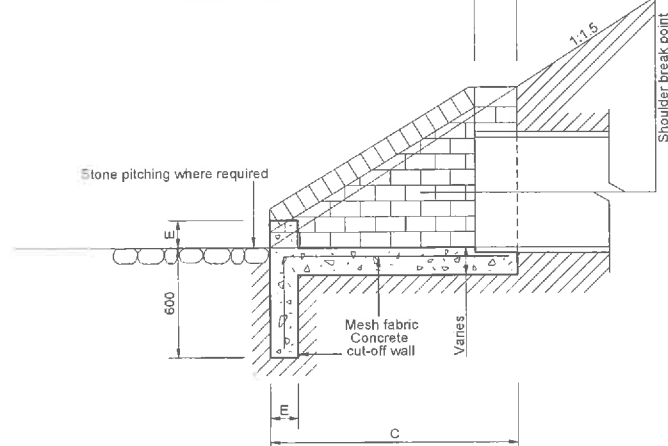
**LAYOUT OF BRICKWORK**

SCALE: 1:20



**PLAN OF PIPE CULVERT HEADWALL**

SCALE: 1:20

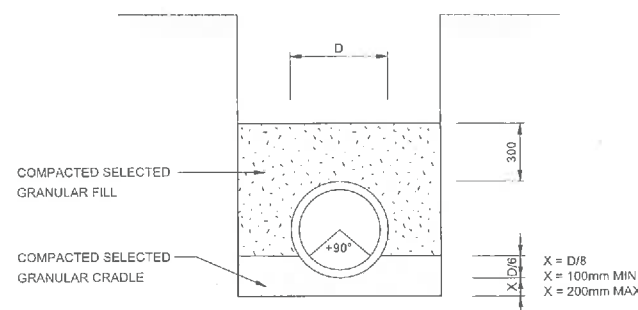


**SECTION A-A**

SCALE: 1:20

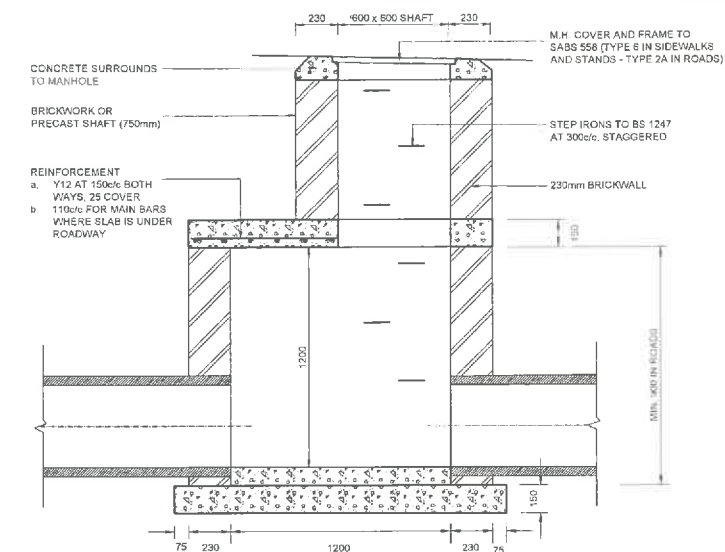
**NOTES :**

1. SPLITTER BLOCK AND PITCHING TO BE PROVIDED AT ALL OUTLETS WHERE EROSION IS LIKELY TO OCCUR.
2. SPLITTER BLOCK MAY BE OMITTED IF DISCHARGE VELOCITY IS LESS THAN 0.9 M/S.
3. CUT-OFF WALLS MAY BE OMITTED IF STRUCTURE IS FOUNDED ON ROCK.
4. PIPES TO BE CUT FLUSH WITH HEADWALL.
5. IF CORRUGATED METAL PIPES ARE USED 4X20MMX150MM LONG GALVANISED ANCHOR BOLTS IN THE HOLLOW OF THE CORRUGATION ARE TO BE USED.
6. ALL CONCRETE IS TO BE 20MPA.
7. SQUARE MESH FABRIC (REFERENCE S.M.F.193) IS TO BE PLACED 50MM FROM TOP IN ALL APRON SLABS AND CENTRALLY IN CUT-OFF WALLS.
8. BRICKWORK IS TO CONSIST OF GOOD QUALITY BURNT CLAY COMMON BRICKS IN ACCORDANCE WITH SABS 227 SPECIFICATION, OR CEMENT BRICKS IN ACCORDANCE WITH SABS 987 SPECIFICATION, UNIFORM IN SIZE AND SHAPE LAYED IN STRETCHER BOND STYLE WITH THE SKINS TIED TOGETHER WITH GALVANISED CRIMPED WIRE WALL TIES.
9. BRICKFORCE IS TO BE PLACED EVERY 4TH COURSE.
10. JOINTING ON ALL VISIBLE FACES TO BE POINTED
11. NO IN-FILL SHALL BE LARGER THAN A HALF STANDARD BRICK SIZE UNLESS 15MPA CONCRETE IS USED.

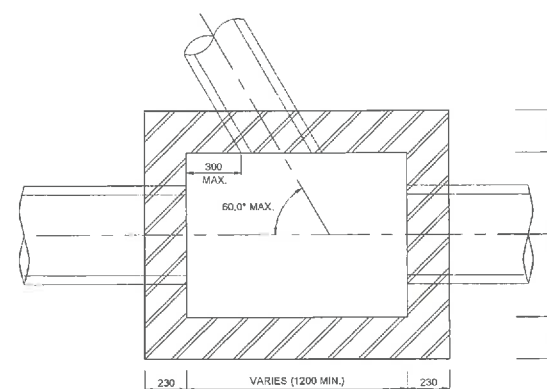
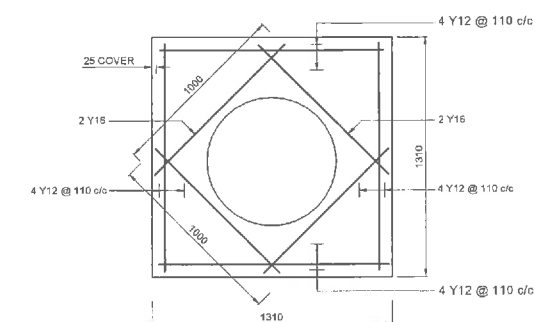


**RIGID PIPE ON CLASS C-BEDDING**

N.T.S.



**SECTION THROUGH MANHOLE WITH SHAFT**



**SECTIONAL PLAN**

**REINFORCEMENT DETAIL FOR COVER SLAB  
STORMWATER JUNCTION BOX DETAILS**

SCALE 1:20

**NOTES:**

1. CONCRETE STRENGTH TO BE AS FOLLOWS
- a. MANHOLE SURROUNDS AND BENCHING CLASS 15/19
- b. CAST IN-SITU DECK SLABS & FOUNDATION CLASS 20/19
- c. PRECAST COVER SLABS & OTHER ITEMS CLASS 25/19
- d. CAST IN-SITU KERBS, APRONS ETC. CLASS 25/19
2. ALL FLOORS AND BENCHING TO BE STEEL TROWELLED WITH A SMOOTH FINISH.
3. ALL BRICKS TO BE FB8 30 TO SABS 227-1988 WITH WATER ABSORPTION < 14% AND EFFLORESCENCE OF 10. BUILT IN ENGLISH BOND.
4. MANHOLE & KERB INLET WIDTHS AND DEPTHS
- WIDTH- 750mm PIPES AND LESS - 900mm
- 825mm PIPES AND MORE - 1200mm
- SOME JUNCTION MANHOLE SIZES TO BE DETERMINED ON SITE.
- DEPTH- THE DEPTH INDICATED SHOULD BE INCREASED IF NECESSARY FOR MANHOLES TO PERMIT SUFFICIENT DISCHARGE HEAD TO DEVELOP. MANHOLE DEPTH > 1.75m. WIDTH OF BRICKWORK TO BE INCREASED TO 350mm.
5. KERB INLET - THE APRON OVER THE LENGTH OF THE KERB INLET AND THE TRANSITION TO BE LOWERED BY 25mm.
6. NO BACKFILL TO BE DONE UNTIL MORTAR IS SEVEN DAYS OLD.
7. PROVIDE STEP IRONS WHEN DEPTH > 1.200m.
8. PIPES AT INLET AND OUTLET TO BE LAID SOFFIT TO SOFFIT.
9. SHOULD THERE BE A CHANGE IN PIPE DIAMETER THE GREATER OF THE TWO SHOULD BE USED TO DETERMINE THE POSITIONING OF THE PIPES.
10. ALL ROAD WORKS TO COMPLY WITH THE SABS 1200 SPECIFICATIONS.

**GENERAL NOTES:**

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6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.

**REVISION INFORMATION**

No.	DATE	DESCRIPTION:	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



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19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 3941

PROJECT DESCRIPTION




NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

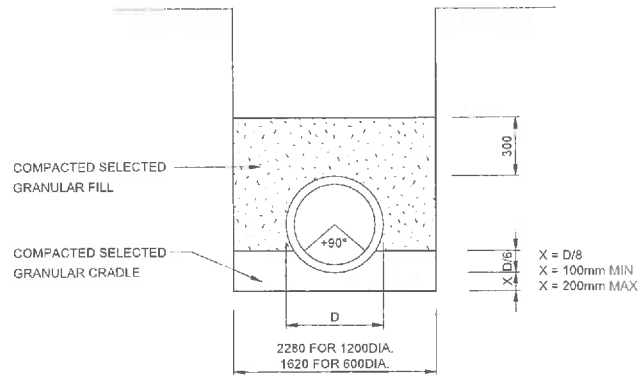
STORMWATER DETAIL

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.  
**NT05-20-1103-520-3**

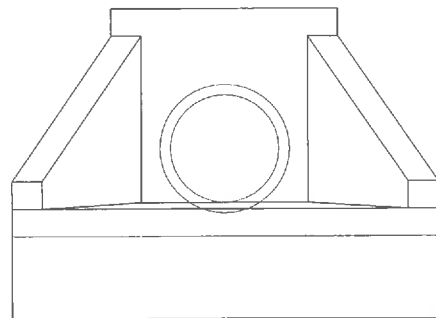
SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





**RIGID PIPE ON CLASS C-BEDDING**

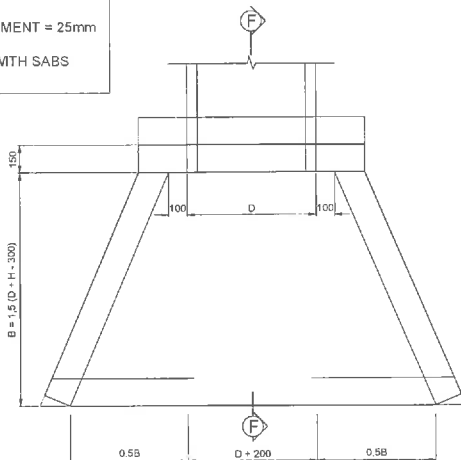
N.T.S.



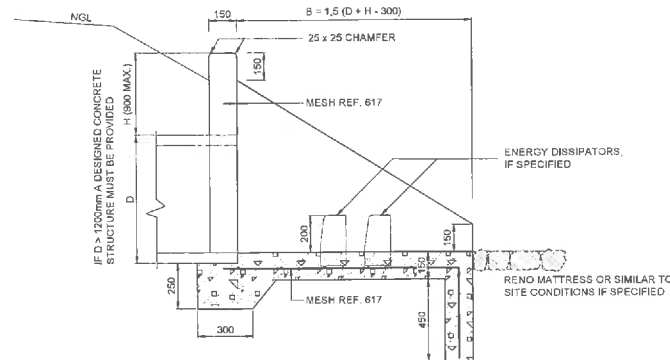
**FRONT ELEVATION**

**NOTES:**

- ALL CONCRETE IN INLET AND OUTLET STRUCTURE TO BE CLASS 20/19 WITH A WOOD FLOAT FINISH WITH 25 x 25 CHAMFER ON ALL EXPOSED EDGES.
- MINIMUM COVER TO REINFORCEMENT = 25mm OR 40mm ON THE GROUND.
- ALL ROAD WORKS TO COMPLY WITH SABS 1200 SPECIFICATIONS.



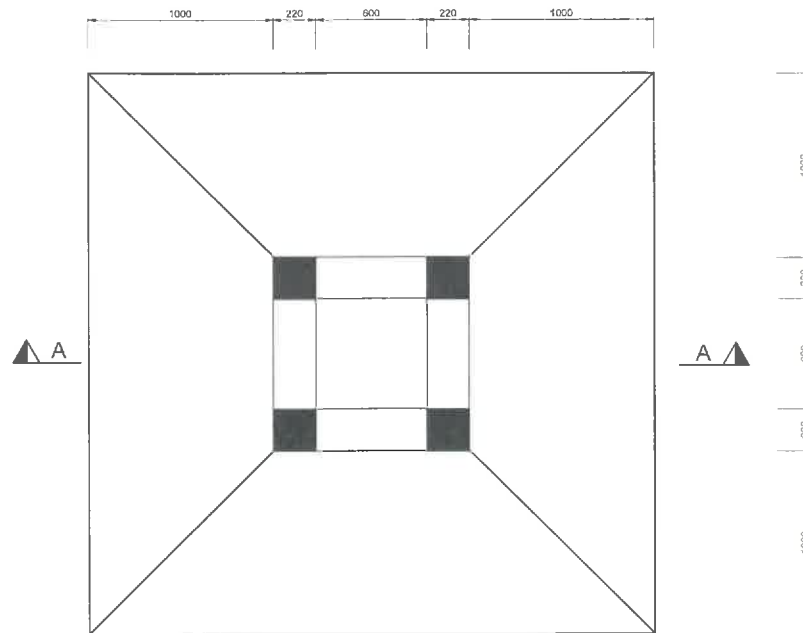
**PLAN**



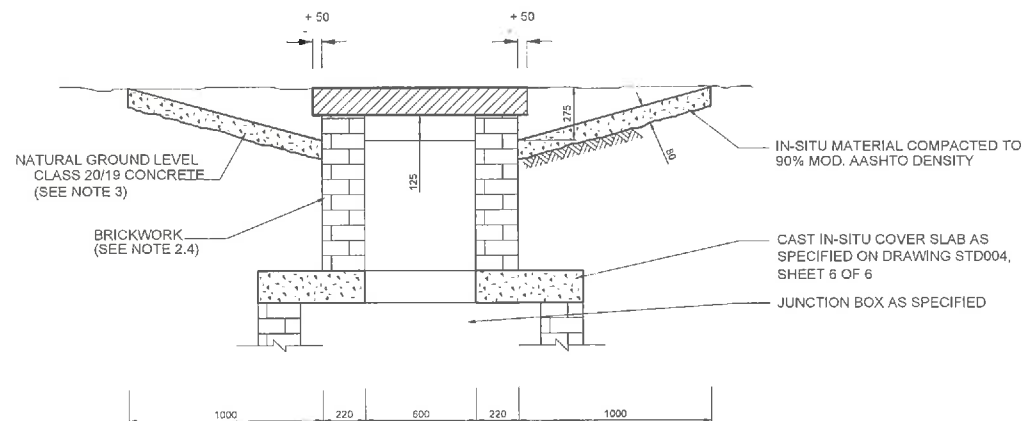
**SECTION F-F**

**CULVERT INLET / OUTLET STRUCTURE DETAILS**

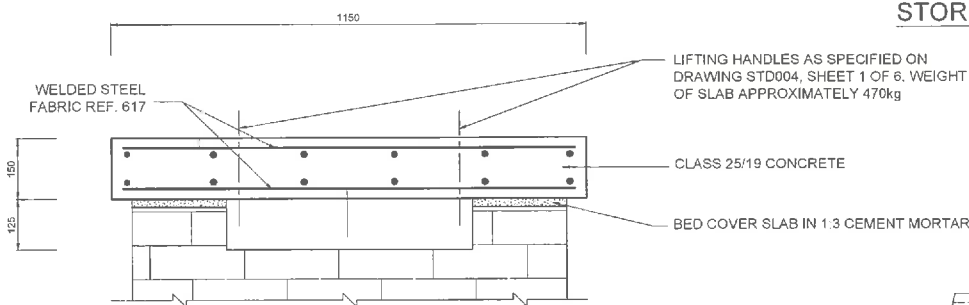
SCALE 1:20



**PLAN OF FIELD INLET (Without cover slab)**



**SECTION B-B**



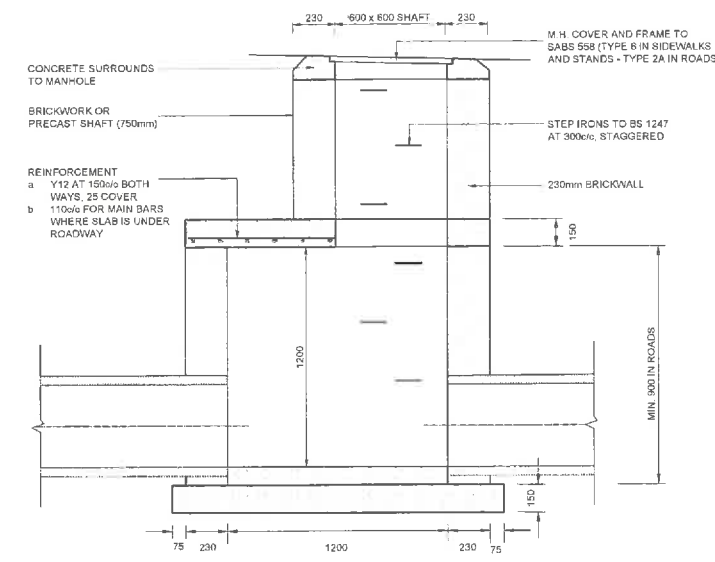
**DETAIL OF PRECAST COVER SLAB**

**NOTES:**

- CONCRETE STRENGTH TO BE AS FOLLOWS:  
a. MANHOLE SURROUNDS AND BENCHING: CLASS 15/19  
b. CAST IN-SITU DECK SLABS & FOUNDATION: CLASS 20/19  
c. PRECAST COVER SLABS & OTHER ITEMS: CLASS 25/19  
d. CAST IN-SITU KERBS, APRONS ETC.: CLASS 25/19
- ALL FLOORS AND BENCHING TO BE STEEL TROWELLED WITH A SMOOTH RADIUS.
- ALL BRICKS TO BE FBSE 30 TO SABS 227-1985 WITH WATER ABSORPTION < 14% AND EFFLORESCENCE OF 10, BUILT IN ENGLISH BOND.

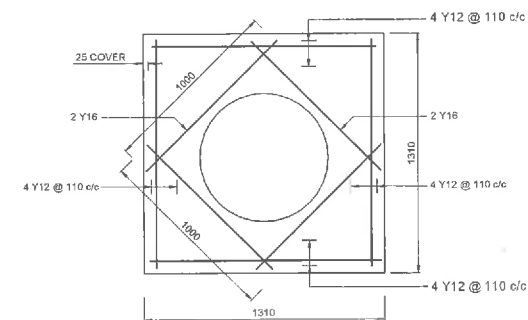
**NOTES:**

- MANHOLE & KERB INLET WIDTHS AND DEPTHS:  
WIDTH-  
750 mm PIPES AND LESS - 900mm  
825 mm PIPES AND MORE - 1200mm  
SOME JUNCTION MANHOLE SIZES TO BE DETERMINED ON SITE.  
DEPTH-  
THE DEPTH INDICATED SHOULD BE INCREASED IF NECESSARY FOR MANHOLES TO PERMIT SUFFICIENT DISCHARGE HEAD TO DEVELOP.  
MANHOLE DEPTH > 1,75m, WIDTH OF BRICKWORK TO BE INCREASED TO 330mm.
- KERB INLET - THE APRON OVER THE LENGTH OF THE KERB INLET AND THE TRANSITION TO BE LOWERED BY 25mm



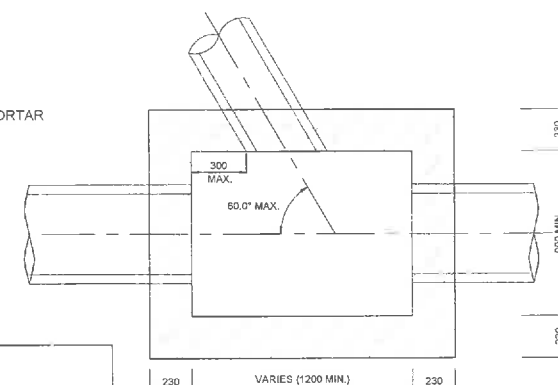
**SECTION THROUGH MANHOLE WITH SHAFT**

SCALE: 1:20



**REINFORCEMENT DETAIL FOR COVER SLAB  
STORMWATER JUNCTION BOX DETAILS**

SCALE 1:20



**SECTIONAL PLAN**

SCALE: 1:20

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**REVISION INFORMATION**

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D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
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CLIENT



CONSULTANT



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19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0599  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

**PROJECT DESCRIPTION**


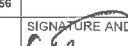
NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

**DISCIPLINE**

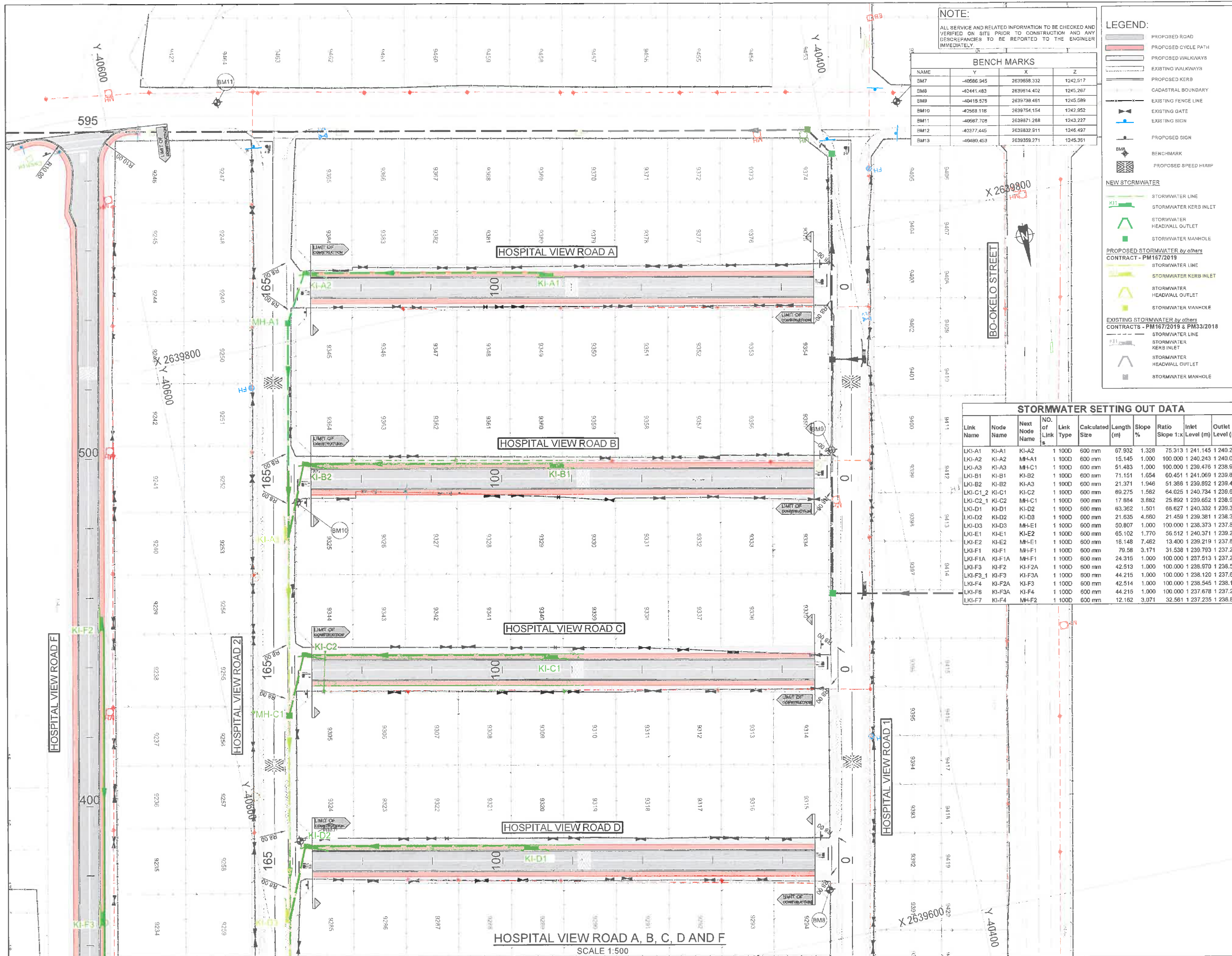
ROADS & TRANSPORT

**DRAWING DESCRIPTION**

**STORMWATER TYPICAL DETAILS**

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.: 201670155	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.: 20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>
DRAWING NO.: <b>NT05-20-1103-520-4</b>	
SCALE <b>AS SHOWN</b>	SHEET SIZE <b>A1</b>
	REVISION <b>F1</b>





#### GENERAL NOTES:

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#### REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelching Street  
Bendor Ext 30  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

#### STORMWATER LAYOUT PLAN SHEET 1 OF 3

DESIGNED BY: M. MOTSEPE	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: K. MANGXABA Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: 1103	DATE: 25 NOVEMBER 2020
DRAWING NO.: NT05-20-1103-576-1	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



NOTE:  
ALL SERVICE AND RELATED INFORMATION TO BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

BENCH MARKS			
NAME	Y	X	Z
BM5	-40555.008	2639554.136	1241.538
BM6	-40399.825	2639492.846	1246.889
BM7	-40596.945	2639658.332	1242.517
BM8	-40441.483	2639614.402	1245.287
BM9	-40415.575	2639738.461	1245.589
BM10	-40568.118	2639754.154	1242.952

LEGEND:	
	PROPOSED ROAD
	PROPOSED CYCLE PATH
	PROPOSED WALKWAYS
	EXISTING WALKWAYS
	PROPOSED KERB
	CADASTRAL BOUNDARY
	EXISTING FENCE LINE
	EXISTING GATE
	EXISTING SIGN
	PROPOSED SIGN
	BENCHMARK
	PROPOSED SPEED HUMP
NEW STORMWATER	
	STORMWATER LINE
	STORMWATER KERB INLET
	STORMWATER HEADWALL OUTLET
	STORMWATER MANHOLE
PROPOSED STORMWATER by others CONTRACT - PM167/2019	
	STORMWATER LINE
	STORMWATER KERB INLET
	STORMWATER HEADWALL OUTLET
	STORMWATER MANHOLE
EXISTING STORMWATER by others CONTRACTS - PM167/2019 & PM33/2018	
	STORMWATER LINE
	STORMWATER KERB INLET
	STORMWATER HEADWALL OUTLET
	STORMWATER MANHOLE

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REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
E1	2020-10-29	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED TRANSPORT FACILITIES AND ROAD UPGRADE FOR HOSPITAL VIEW ADDITIONAL ROADS IN SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

STORMWATER LAYOUT PLAN  
SHEET 2 OF 3

DESIGNED BY:

M. MOTSEPE

CHECKED BY:

K. MANGXABA

APPROVED BY:

M. GWABA

PROJECT NO.:

1103

DRAWING NO.:

NT05-20-1103-576-2

SCALE

AS SHOWN

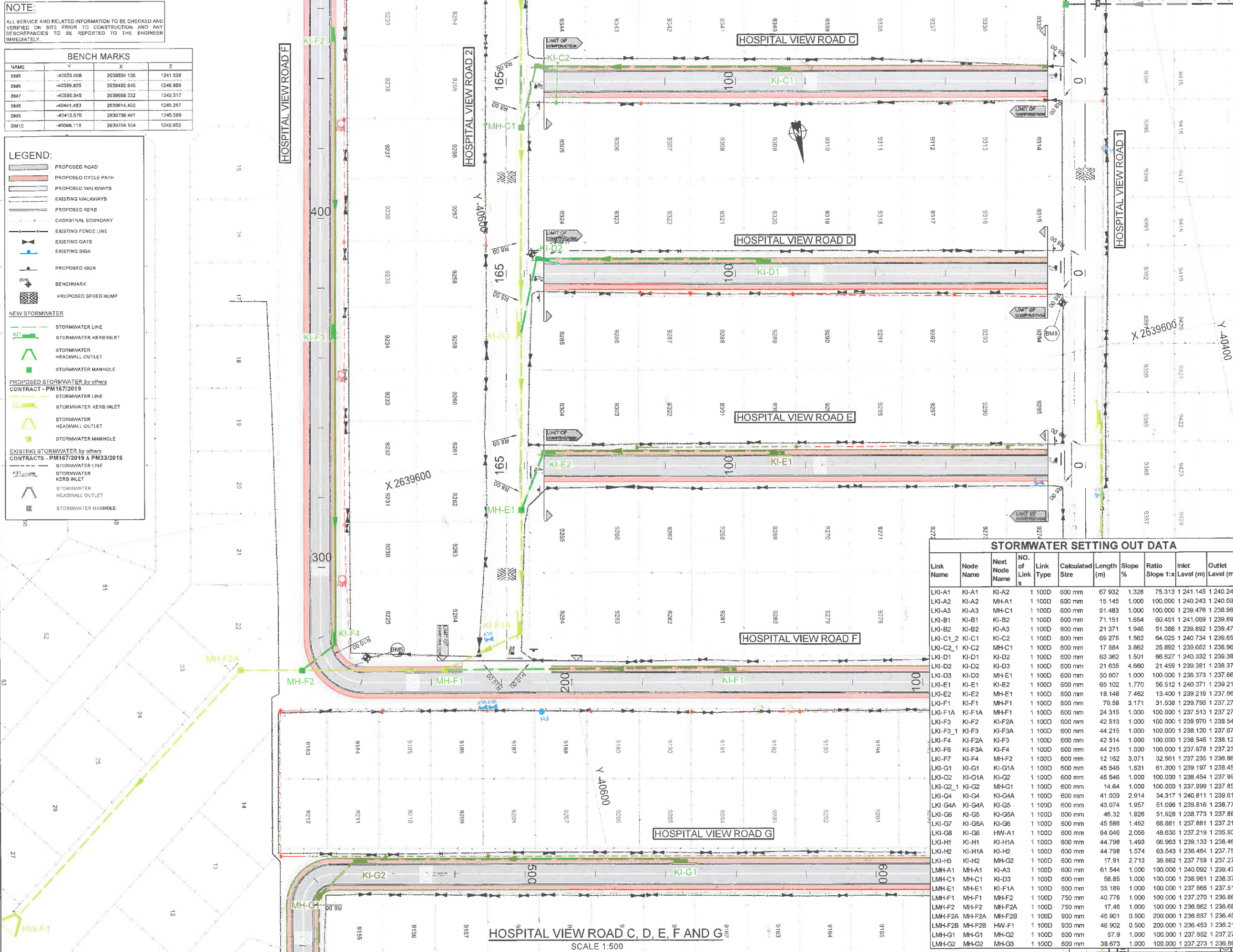
SHEET SIZE

A1

REVISION

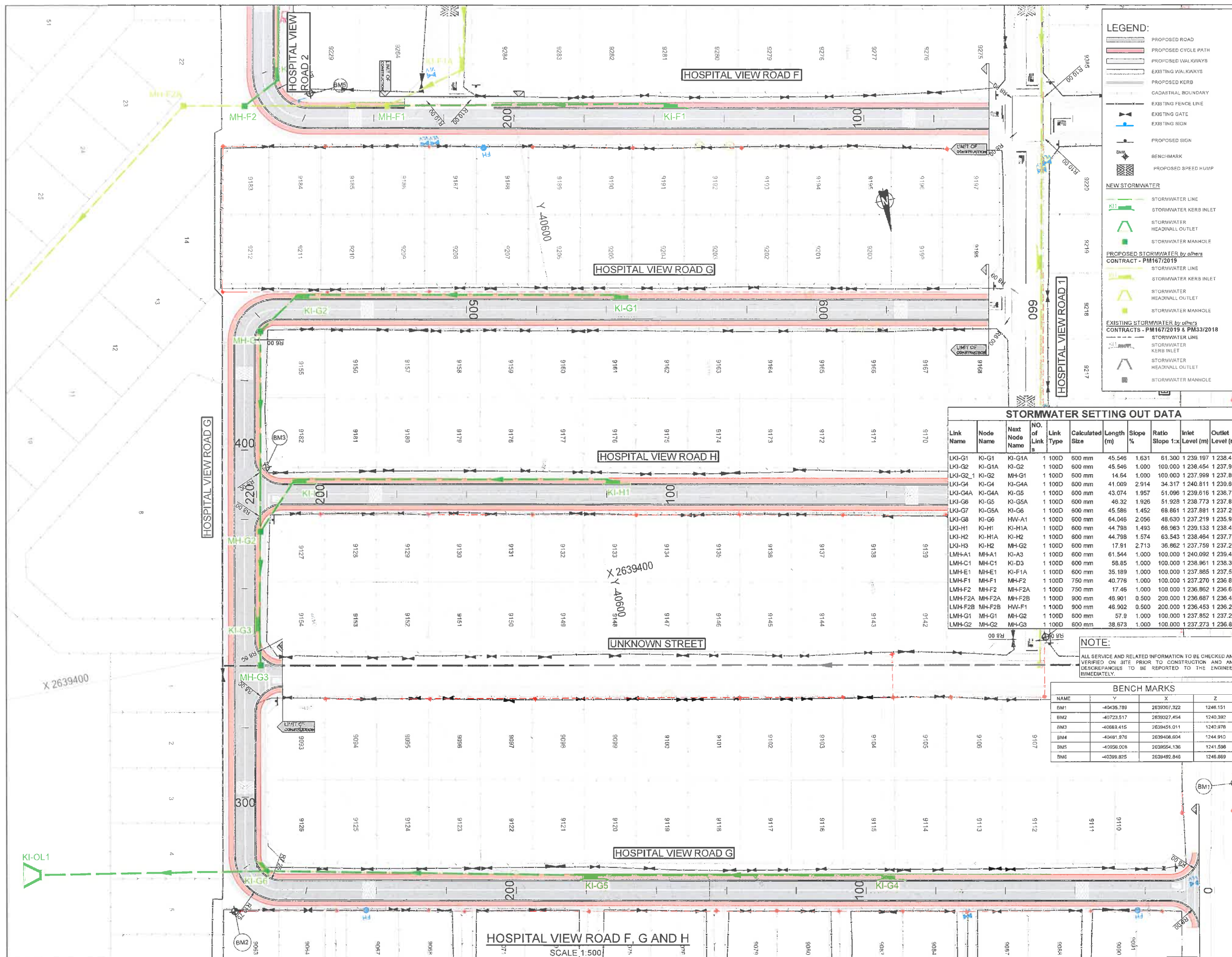
F1

STORMWATER SETTING OUT DATA											
Link Name	Node Name	Next Node Name	No. of Link s	Link Type	Calculated Size	Length (m)	Slope %	Ratio Slope 1:x	Inlet Level (m)	Outlet Level (m)	
LKI-A1	KI-A1	KI-A2	1	100D	600 mm	67.932	1.328	75.313	1 241.145	1 240.243	
LKI-A2	KI-A2	MH-A1	1	100D	600 mm	15.145	1.000	100.000	1 240.243	1 240.092	
LKI-A3	KI-A3	MH-C1	1	100D	600 mm	51.483	1.000	100.000	1 238.478	1 238.991	
LKI-B1	KI-B1	KI-B2	1	100D	600 mm	71.151	1.654	60.451	1 241.069	1 238.892	
LKI-B2	KI-B2	KI-A3	1	100D	600 mm	21.371	1.945	51.388	1 238.892	1 239.476	
LKI-C1_2	KI-C1	KI-C2	1	100D	600 mm	69.275	1.562	64.025	1 240.734	1 239.652	
LKI-C2_1	KI-C2	MH-C1	1	100D	600 mm	17.884	3.862	25.892	1 239.652	1 238.961	
LKI-D1	KI-D1	KI-D2	1	100D	600 mm	63.362	1.501	68.827	1 240.332	1 239.381	
LKI-D2	KI-D2	KI-D3	1	100D	600 mm	21.635	4.860	21.459	1 239.381	1 238.373	
LKI-D3	KI-D3	MH-E1	1	100D	600 mm	50.807	1.000	100.000	1 238.373	1 237.865	
LKI-E1	KI-E1	KI-E2	1	100D	600 mm	65.102	1.770	56.512	1 240.371	1 239.219	
LKI-E2	KI-E2	MH-E1	1	100D	600 mm	18.148	7.462	13.400	1 239.219	1 237.865	
LKI-F1	KI-F1	MH-F1	1	100D	600 mm	79.58	3.171	31.538	1 238.793	1 237.270	
LKI-F1A	KI-F1A	MH-F1	1	100D	600 mm	24.315	1.000	100.000	1 237.513	1 237.270	
LKI-F3	KI-F2	KI-F2A	1	100D	600 mm	42.513	1.000	100.000	1 238.970	1 238.545	
LKI-F3_1	KI-F3	KI-F3A	1	100D	600 mm	44.215	1.000	100.000	1 238.120	1 237.678	
LKI-F4	KI-F2A	KI-F3	1	100D	600 mm	42.514	1.000	100.000	1 238.545	1 238.120	
LKI-F6	KI-F3A	KI-F4	1	100D	600 mm	44.215	1.000	100.000	1 237.678	1 237.235	
LKI-F7	KI-F4	MH-F2	1	100D	600 mm	12.162	3.071	32.561	1 237.235	1 238.882	
LKI-G1	KI-G1	KI-G1A	1	100D	600 mm	45.546	1.531	61.300	1 239.197	1 238.454	
LKI-G2	KI-G1A	KI-G2	1	100D	600 mm	45.546	1.000	100.000	1 238.454	1 237.999	
LKI-G2_1	KI-G2	MH-G1	1	100D	600 mm	14.84	1.000	100.000	1 237.999	1 237.852	
LKI-G4	KI-G4	KI-G4A	1	100D	600 mm	41.009	2.914	34.317	1 240.811	1 239.616	
LKI-G4A	KI-G4A	KI-G5	1	100D	600 mm	43.074	1.957	51.096	1 239.616	1 238.773	
LKI-G6	KI-G5	KI-G5A	1	100D	600 mm	46.32	1.928	51.928	1 238.773	1 237.881	
LKI-G7	KI-G5A	KI-G6	1	100D	600 mm	45.598	1.452	68.861	1 237.881	1 237.219	
LKI-G8	KI-G6	HW-A1	1	100D	600 mm	64.046	2.056	48.630	1 237.219	1 235.902	
LKI-H1	KI-H1	KI-H1A	1	100D	600 mm	44.798	1.493	66.963	1 239.133	1 238.484	
LKI-H2	KI-H1A	KI-H2	1	100D	600 mm	44.798	1.574	63.543	1 238.484	1 237.759	
LKI-H3	KI-H2	MH-G2	1	100D	600 mm	17.91	2.713	36.862	1 237.759	1 237.273	
LMH-A1	MH-A1	KI-A3	1	100D	600 mm	61.544	1.000	100.000	1 240.082	1 239.476	
LMH-C1	MH-C1	KI-D3	1	100D	600 mm	58.85	1.000	100.000	1 238.961	1 238.373	
LMH-E1	MH-E1	KI-F1A	1	100D	600 mm	35.189	1.000	100.000	1 237.865	1 237.513	
LMH-F1	MH-F1	MH-F2	1	100D	750 mm	40.776	1.000	100.000	1 237.270	1 238.862	
LMH-F2	MH-F2	MH-F2A	1	100D	750 mm	17.46	1.000	100.000	1 236.862	1 236.687	
LMH-F2A	MH-F2A	MH-F2B	1	100D	900 mm	46.901	0.500	200.000	1 236.687	1 236.453	
LMH-F2B	MH-F2B	HW-F1	1	100D	900 mm	46.902	0.500	200.000	1 236.453	1 236.218	
LMH-G1	MH-G1	MH-G2	1	100D	600 mm	57.9	1.000	100.000	1 237.852	1 237.273	
LMH-G2	MH-G2	MH-G3	1	100D	600 mm	38.673	1.000	100.000	1 237.273	1 236.886	



SCALE 1:500





#### GENERAL NOTES:

1. DRAWINGS MUST NOT BE SCALED.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL PROJECT SPECIFICATIONS.
3. ALL AMBIGUITIES ON DRAWINGS MUST BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE INDICATED.)
5. DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.

#### REVISION INFORMATION

No	DATE	DESCRIPTION	BY
D1	2020-10-28	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



CONSULTANT



AMCE  
19 Neelching Street  
Bender Ext 30,  
Polokwane, 0899  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

#### PROJECT DESCRIPTION

NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

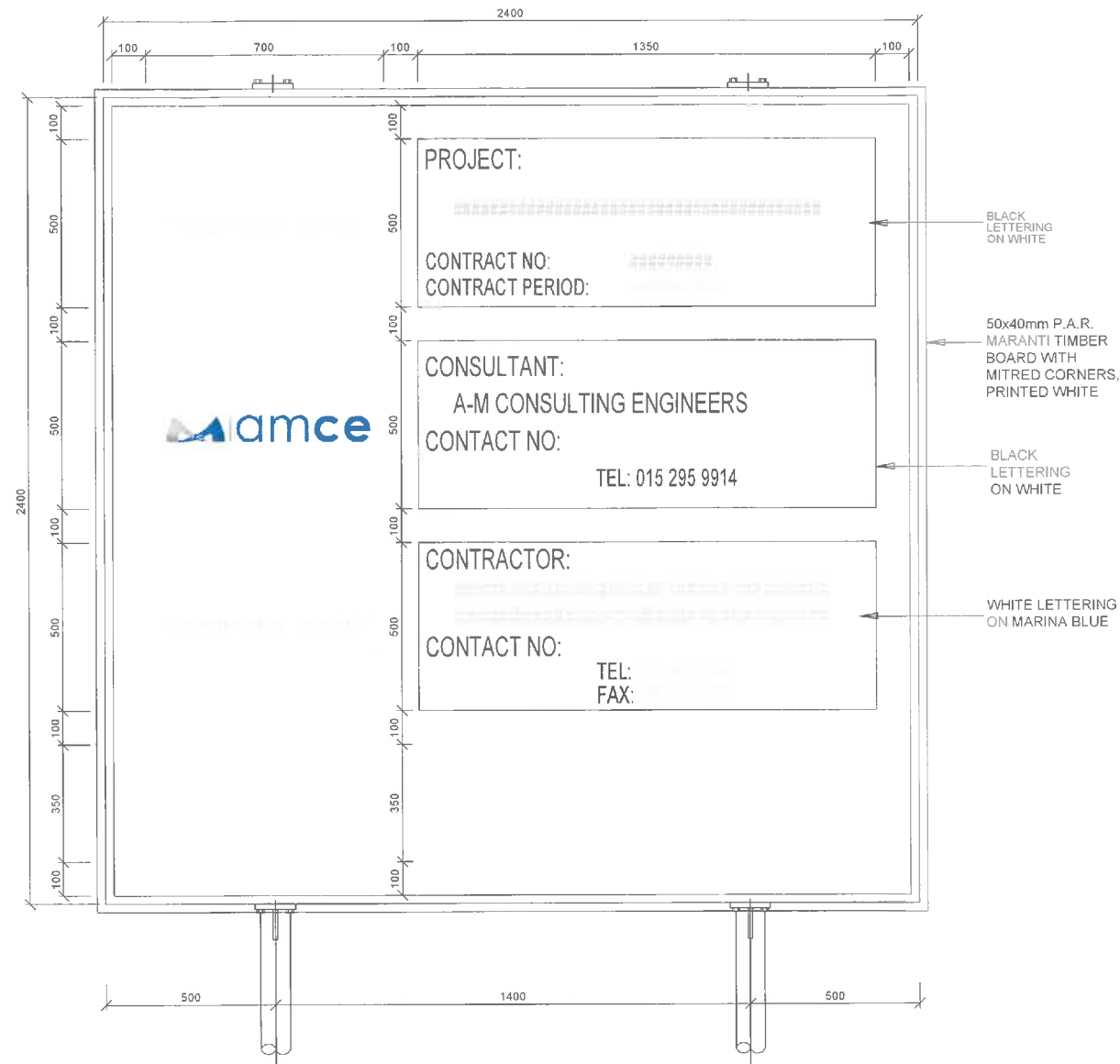
#### DRAWING DESCRIPTION

#### STORMWATER LAYOUT PLAN SHEET 3 OF 3

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

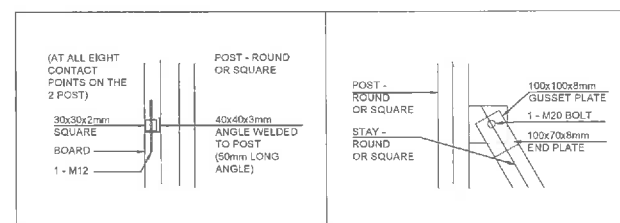
DRAWING NO.:  
**NT05-20-1103-576-3**

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



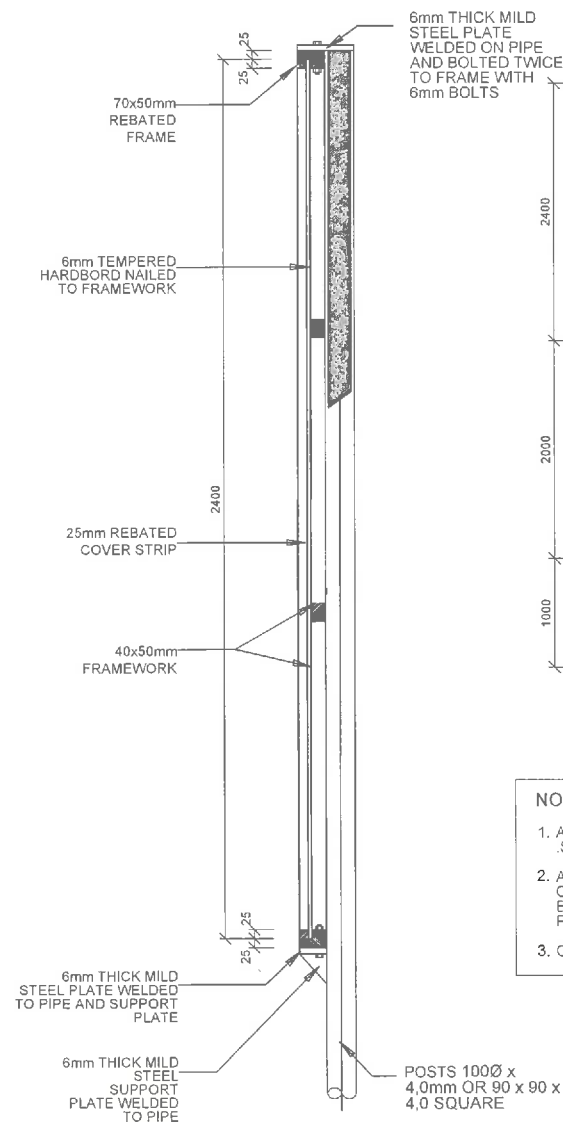
FRONT  
ELEVATION

- NOTES :
1. ALL PAINTS TO HAVE GLOSS FINISH AND TO COMPLY IN .S. 193.)
  2. ALL WHITE AREAS AND LETTERING TO BE OFF-WHITE IN COLOUR. OFF-WHITE TO BE MADE UP BY ADDING 0,4g BLACK AND 0,4g RED PAINT TO ONE LITRE PURE WHITE PAINT.
  3. COLOUR OF PAINT TO CONFORM TO B.B.S. 2660 NO. 03.



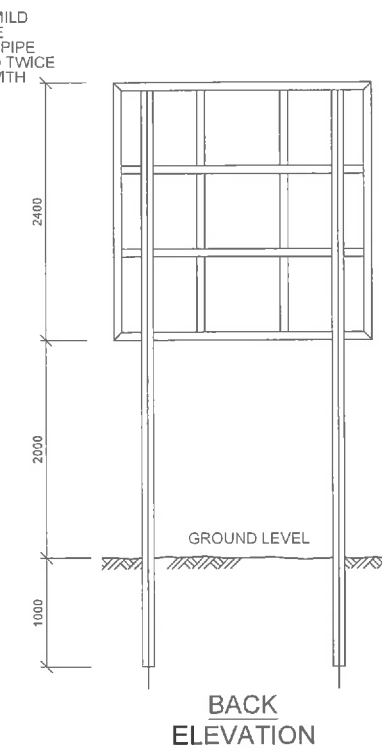
DETAIL 1

DETAIL 2



SECTION

- NOTES :
1. ALL PAINTS TO HAVE GLOSS FINISH AND TO COMPLY IN .S. 193.)
  2. ALL WHITE AREAS AND LETTERING TO BE OFF-WHITE IN COLOUR. OFF-WHITE TO BE MADE UP BY ADDING 0,4g BLACK AND 0,4g RED PAINT TO ONE LITRE PURE WHITE PAINT.
  3. COLOUR OF PAINT TO CONFORM TO B.B.S. 2660 NO. 03.



#### GENERAL NOTES:

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3. ALL AMBIGUITIES ON DRAWINGS MUST BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS ARE IN MILLIMETERS (UNLESS OTHERWISE INDICATED.)
5. DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS MUST BE CHECKED ON SITE.
6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.

#### REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
D1	2020-10-02	ISSUED FOR PRELIMINARY DESIGN APPROVAL	
E1	2020-10-26	ISSUED FOR DETAILED DESIGN APPROVAL	
F1	2020-11-25	ISSUED FOR TENDER	

CLIENT



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19 Neethling Street  
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Tel No. (015) 295 9914 Fax No. (015) 295 9941


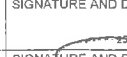

PROJECT DESCRIPTION  
NDPG PROJECT: NON MOTORISED  
TRANSPORT FACILITIES AND ROAD UPGRADE  
FOR HOSPITAL VIEW ADDITIONAL ROADS IN  
SESHEGO FOR CITY OF POLOKWANE.

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

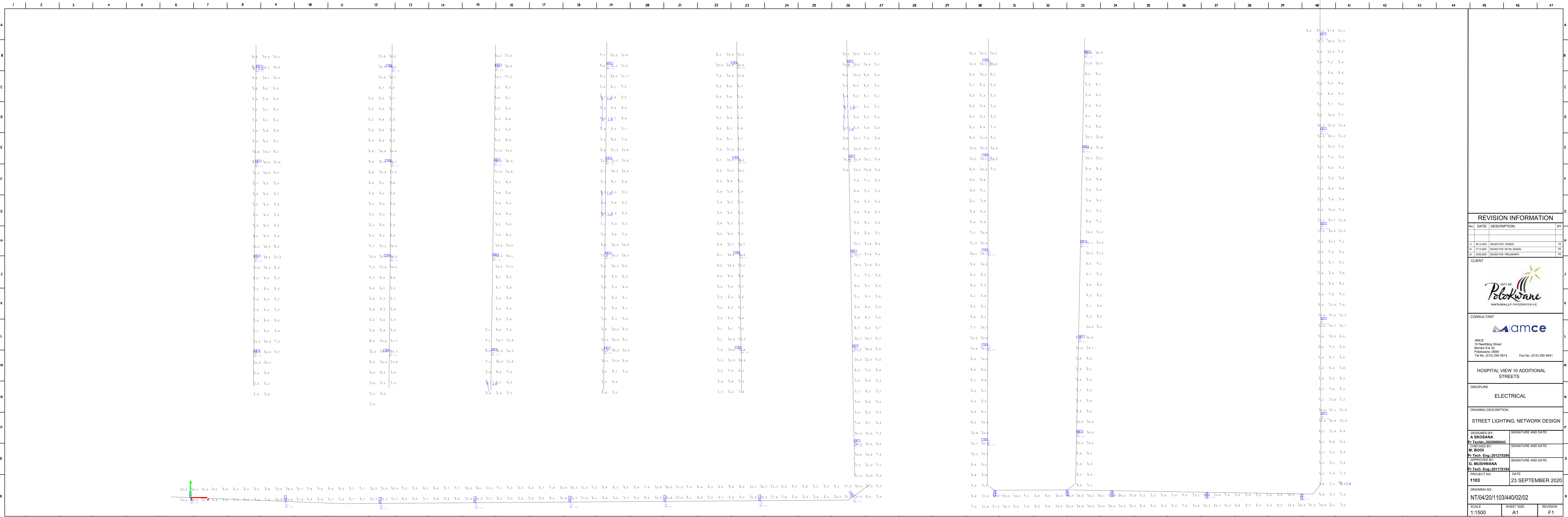
CONTRACT  
NAMEBOARD

DESIGNED BY: <b>M. MOTSEPE</b>	SIGNATURE AND DATE:  25 NOVEMBER 2020
CHECKED BY: <b>K. MANGXABA</b> Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  25 NOVEMBER 2020
APPROVED BY: <b>M. GWABA</b> Pr Eng.:20140479	SIGNATURE AND DATE:  25 NOVEMBER 2020
PROJECT NO.: <b>1103</b>	DATE: <b>25 NOVEMBER 2020</b>

DRAWING NO.:  
**NT05-20-1103-580-1**

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





# REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
01	23/09/2020	ISSUED FOR PRELIMINARY.	AS
02	27/09/2020	ISSUED FOR DETAIL DESIGN.	AS
03	04/10/2020	ISSUED FOR TENDER.	AS

## CLIENT



## CONSULTANT



AMCE  
15 Neethling Street  
Bendor Ext 30,  
Polokwane, 0959  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

## HOSPITAL VIEW 10 ADDITIONAL STREETS

## DISCIPLINE ELECTRICAL

## DRAWING DESCRIPTION

## STREET LIGHTING: NETWORK DESIGN

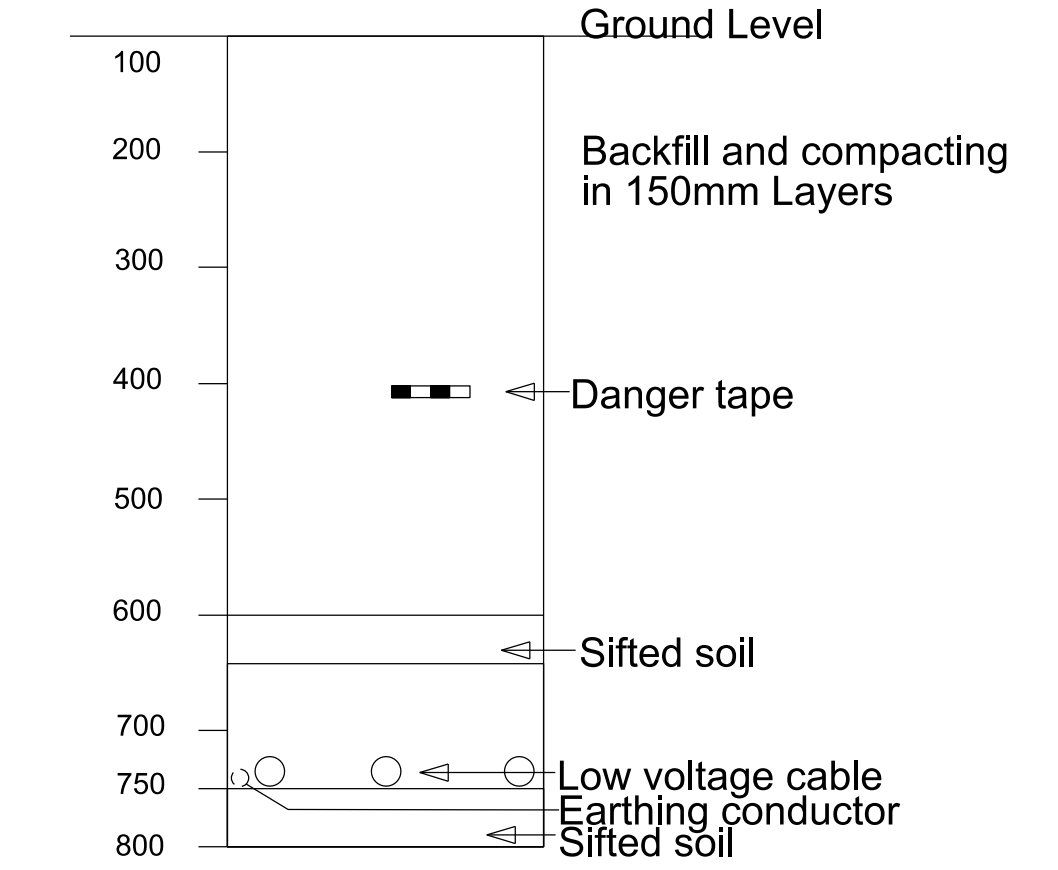
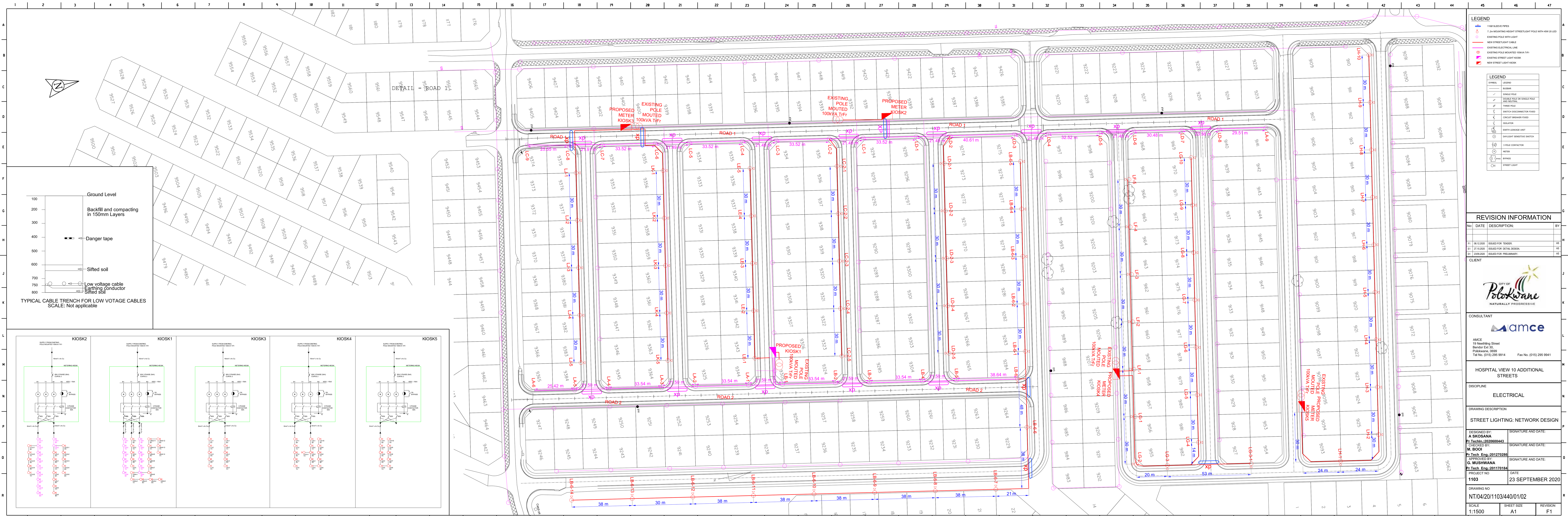
DESIGNED BY: <b>A. SKOSANA</b>	SIGNATURE AND DATE:
CHECKED BY: <b>M. BOOI</b>	SIGNATURE AND DATE:
APPROVED BY: <b>G. MUSHWANA</b>	SIGNATURE AND DATE:
PROJECT NO. <b>1103</b>	DATE <b>23 SEPTEMBER 2020</b>

## DRAWING NO.

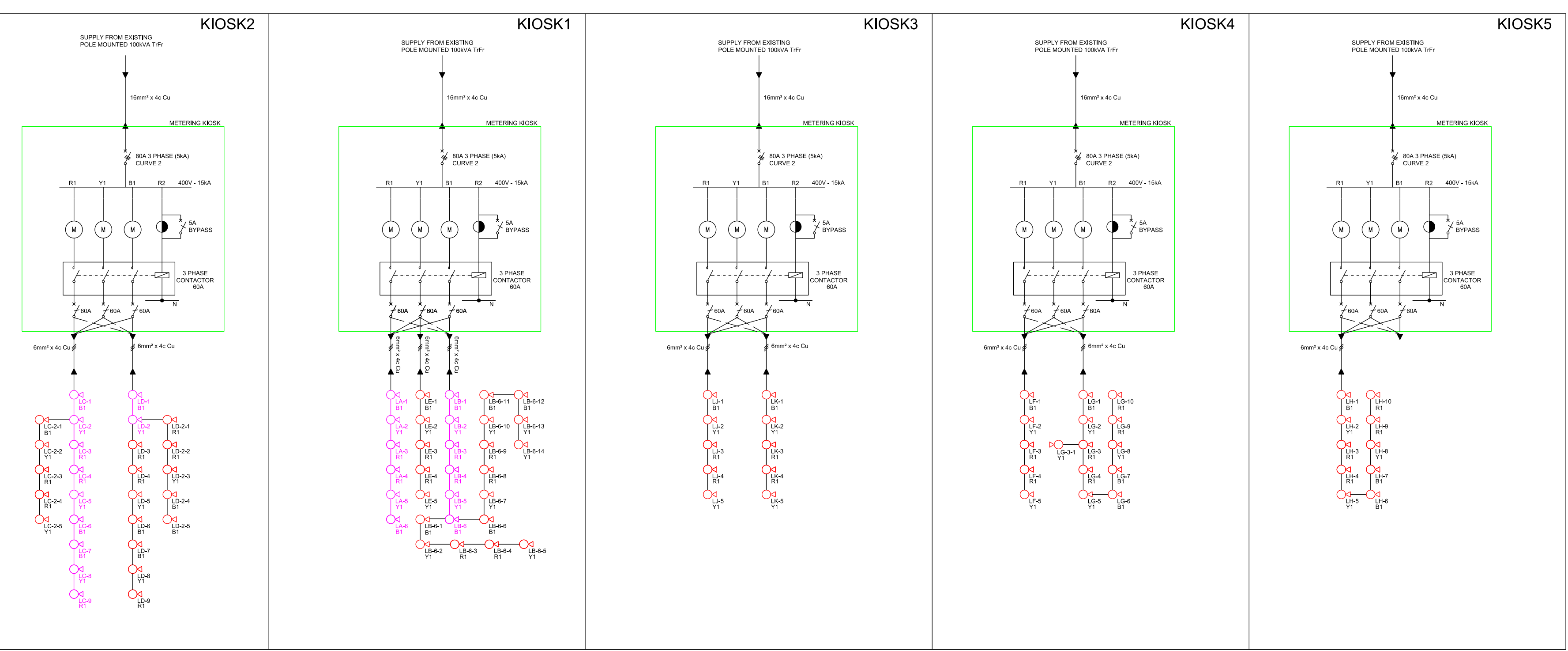
NT/04/20/1103/440/02/02

SCALE	SHEET SIZE	REVISION
1:1500	A1	F1





TYPICAL CABLE TRENCH FOR LOW VOTAGE CABLES  
SCALE: Not applicable



**LEGEND**  
1000 SLEEVE PIPES  
7.2m MOUNTING HEIGHT STREETLIGHT POLE WITH 45W 20 LED  
EXISTING STREET LIGHT  
NEW STREETLIGHT CABLE  
EXISTING ELECTRICAL CABLE  
EXISTING POLE MOUNTED 100KVA TFR  
EXISTING STREET LIGHT KIOSK  
NEW STREET LIGHT KIOSK

**LEGEND**  
SYMBOL LEGEND  
BUSBAR  
SINGLE POLE  
DOUBLE POLE OR SINGLE POLE AND NEUTRAL  
THREE POLE  
SWITCH DISCONNECTOR FIRED  
CIRCUIT BREAKER FIRED  
ISOLATOR  
EARTH LEAKAGE UNIT  
DAYLIGHT SENSITIVE SWITCH  
3 POLE CONTACTOR  
METER  
FUSE  
STREET LIGHT

REVISION INFORMATION		
No.	DATE	DESCRIPTION:
P1	18.12.2020	ISSUED FOR TENDER
E1	27.10.2020	ISSUED FOR DETAIL DESIGN
D1	23.09.2020	ISSUED FOR PRELIMINARY

**CLIENT**  
  
CITY OF  
**Polokwane**  
NATURALLY PROGRESSIVE

**CONSULTANT**  
  
AMCE  
12 Maitland Street  
Bendor Ext 30,  
Polokwane, 0959  
Tel No. (015) 295 9914  
Fax No. (015) 295 9941

**HOSPITAL VIEW 10 ADDITIONAL STREETS**

**DISCIPLINE**  
ELECTRICAL

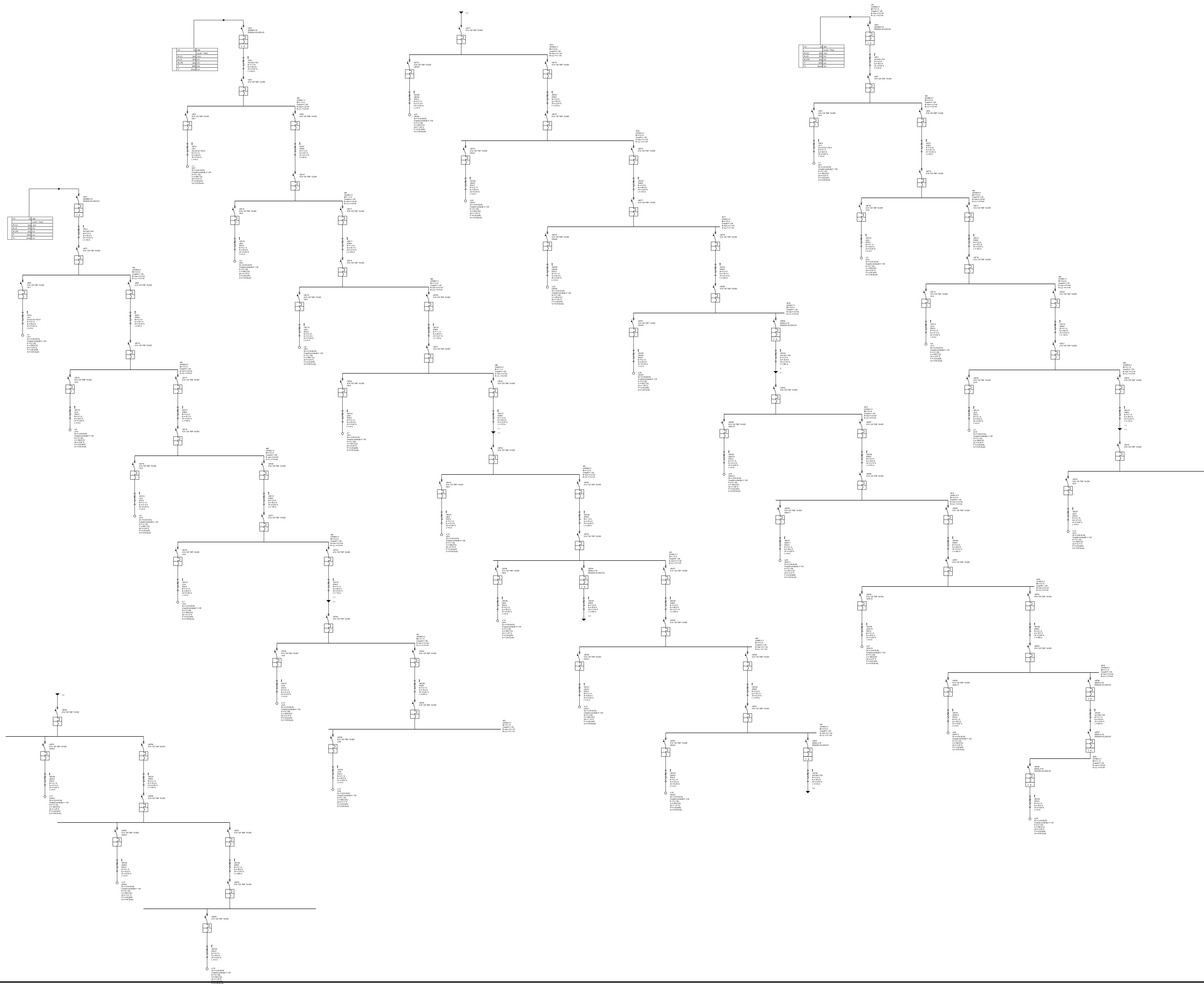
**DRAWING DESCRIPTION**  
STREET LIGHTING: NETWORK DESIGN

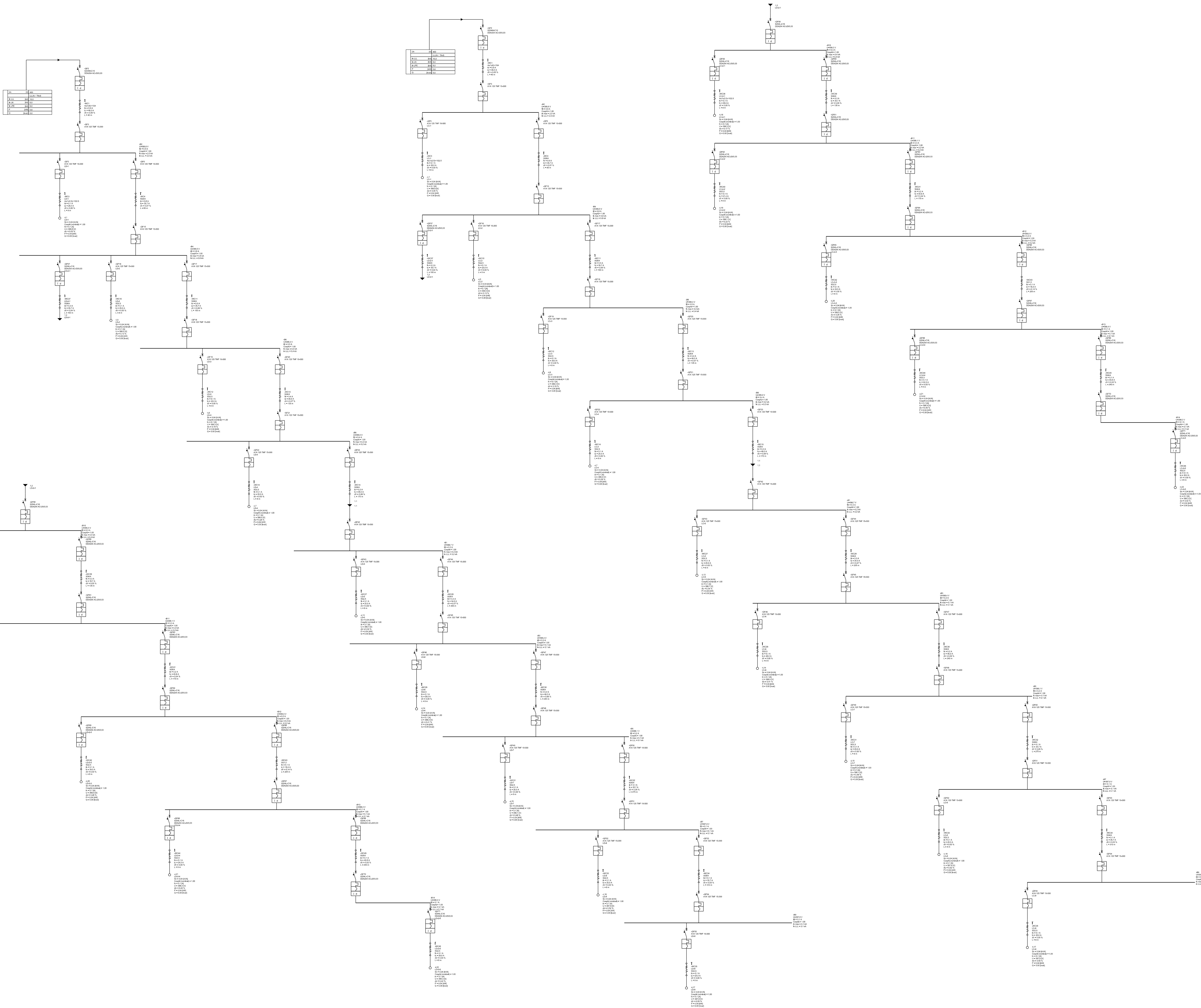
DESIGNED BY: <b>A. SKOSANA</b>	SIGNATURE AND DATE:
Pr Tech. Eng.:2020600443	SIGNATURE AND DATE:
CHECKED BY: <b>M. BOOI</b>	SIGNATURE AND DATE:
Pr Tech. Eng.:201270286	SIGNATURE AND DATE:
APPROVED BY: <b>G. MUSHWANA</b>	SIGNATURE AND DATE:
Pr Tech. Eng.:201170184	SIGNATURE AND DATE:

PROJECT NO <b>1103</b>	DATE <b>23 SEPTEMBER 2020</b>
---------------------------	----------------------------------

DRAWING NO <b>NT/04/20/1103/440/01/02</b>	SCALE <b>1:1500</b>	SHEET SIZE <b>A1</b>	REVISION <b>F1</b>
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ELECTRICAL LEGEND:

- TRANSFORMER
- CIRCUIT BREAKER
- LUMINAIRE
- LOW VOLTAGE CABLE

REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
E1	27.10.2020	ISSUED FOR DETAIL DESIGN.	AS
F1	08.12.2020	ISSUED FOR TENDER.	AS

CLIENT



CONSULTANT



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19 Neethling Street  
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Polokwane, 0699  
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HOSPITAL VIEW 10 ADDITIONAL STREET

DISCIPLINE

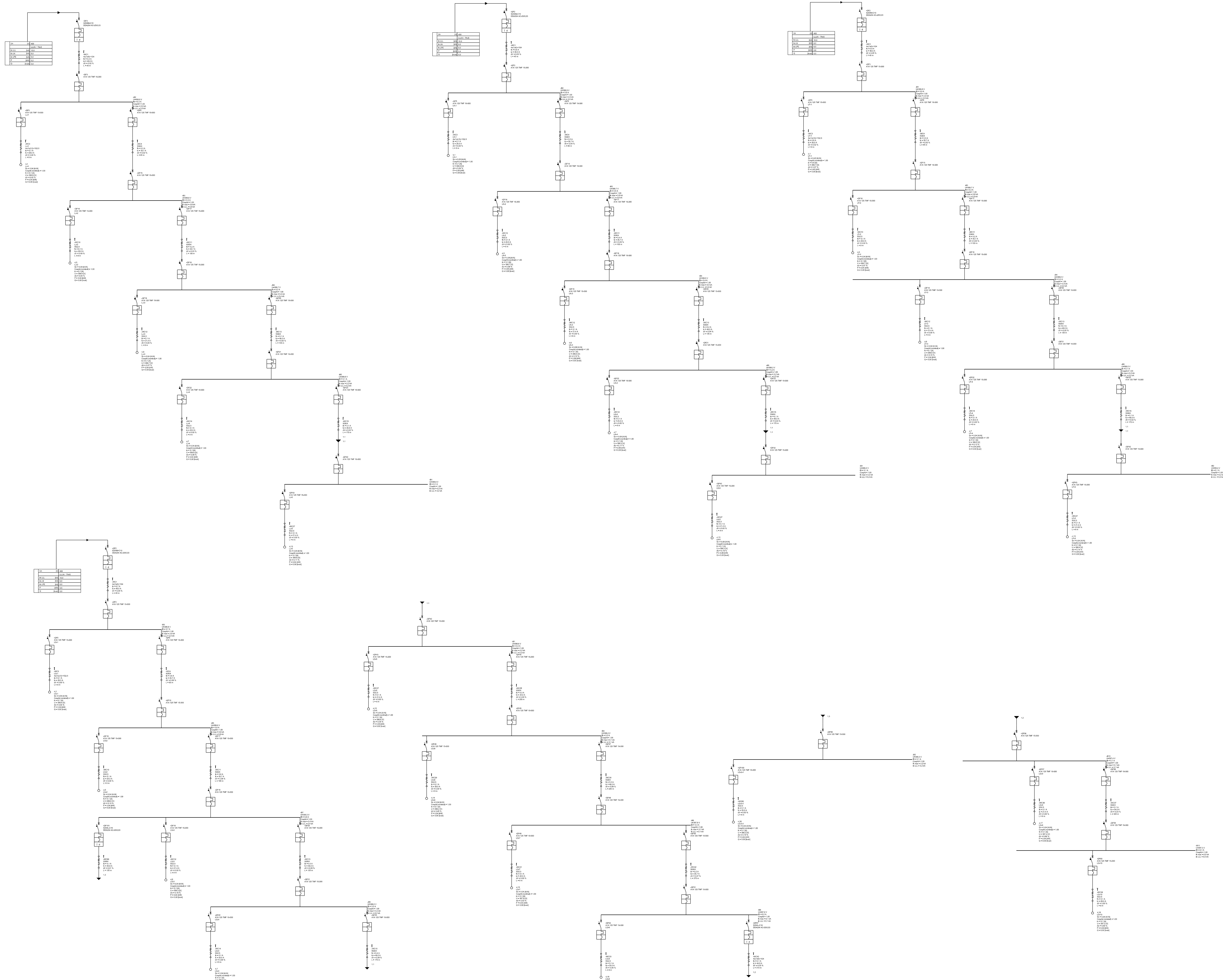
ELECTRICAL

DRAWING DESCRIPTION

SINGLE LINE DIAGRAM

DESIGNED BY: <b>A SKOSANA</b> Pr Technl Eng.:2020600443	SIGNATURE AND DATE:
CHECKED BY: <b>M. BOOI</b> Pr Tech Eng.:201270286	SIGNATURE AND DATE:
APPROVED BY: <b>G. MUSHWANA</b> Pr Tech Eng.:201170184	SIGNATURE AND DATE:
PROJECT NO <b>1103</b>	DATE <b>24 FEBRUARY 2020</b>
DRAWING NO <b>NT/04/20/1103/402/02/04</b>	
SCALE <b>1:1500</b>	SHEET SIZE <b>A1</b>
	REVISION <b>F1</b>





ELECTRICAL LEGEND:

- TRANSFORMER
- CIRCUIT BREAKER
- LUMINAIRE
- LOW VOLTAGE CABLE

REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
E1	27.10.2020	ISSUED FOR DETAIL DESIGN.	AS
F1	08.12.2020	ISSUED FOR TENDER.	AS

CLIENT



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19 Neethling Street  
Bendor Ext 30,  
Polokwane, 0699  
Tel No. (015) 295 9914 Fax No. (015) 295 9941

HOSPITAL VIEW 10 ADDITIONAL STREET

DISCIPLINE

ELECTRICAL

DRAWING DESCRIPTION

SINGLE LINE DIAGRAM

DESIGNED BY: <b>A SKOSANA</b> Pr Techn Eng.:2020600443	SIGNATURE AND DATE:
CHECKED BY: <b>M. BOOI</b> Pr Tech Eng.:201270286	SIGNATURE AND DATE:
APPROVED BY: <b>G. MUSHWANA</b> Pr Tech Eng.:201170184	SIGNATURE AND DATE:

PROJECT NO <b>1103</b>	DATE <b>24 FEBRUARY 2020</b>
---------------------------	---------------------------------

DRAWING NO <b>NT/04/20/1103/402/03/04</b>		
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SCALE <b>1:1500</b>	SHEET SIZE <b>A1</b>	REVISION <b>F1</b>
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