

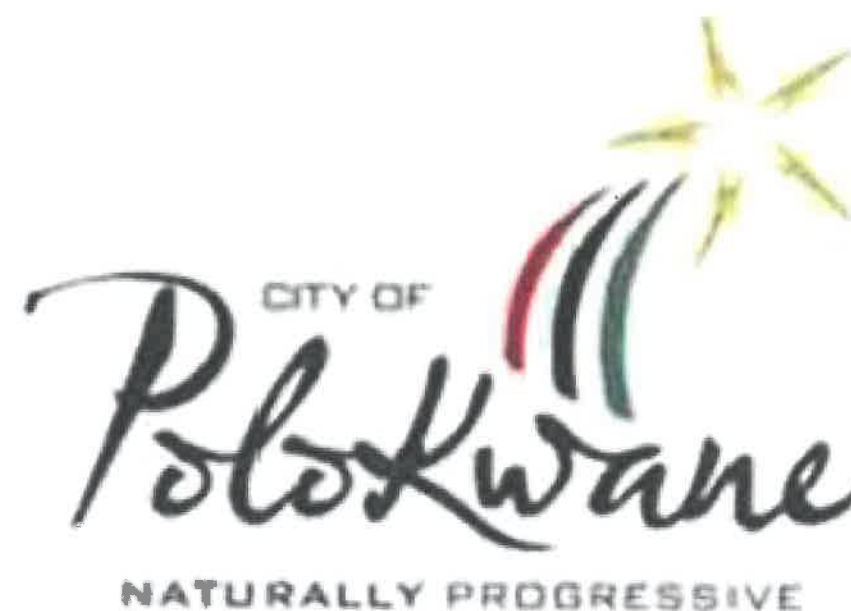


CONSULTANT

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19 Neethling Street
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Polokwane, 0699
Tel No. (015) 295 9914

Fax No. (015) 295 9941

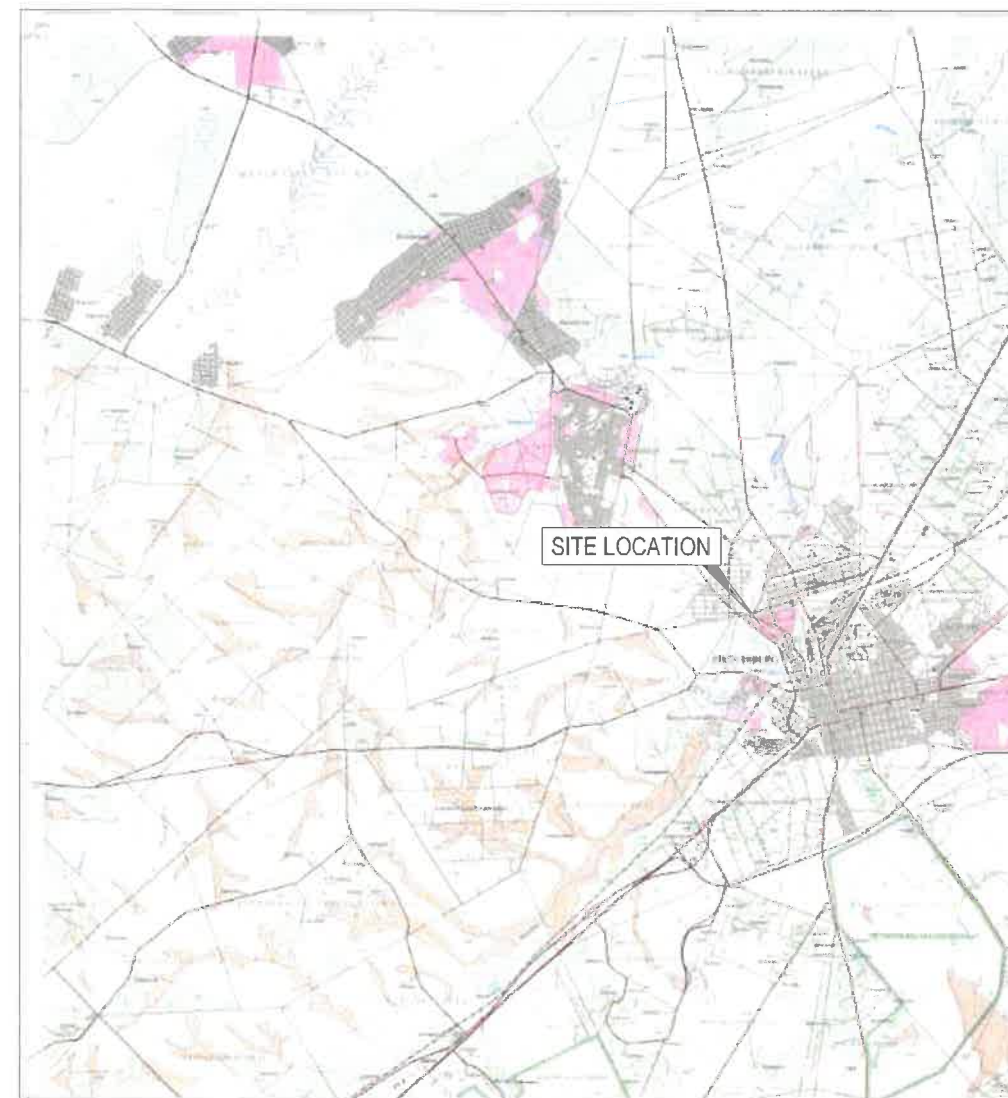
SESHEGO NDPG: STORMWATER CANAL PHASE 2



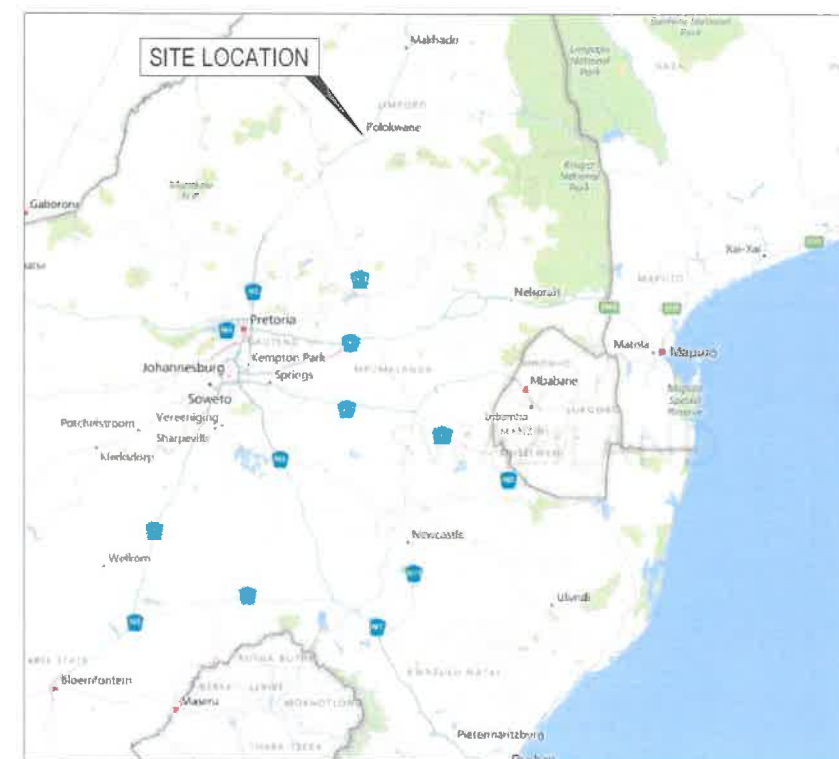


SITE LAYOUT PLAN

LIST OF DRAWINGS	
DRAWING NO.	DRAWING TITLE
GENERAL:	
NT05-20-1105-500-1	COVER PAGE
NT05-20-1105-501-1	SITE LOCALITY PLAN & DRAWING LIST
LAYOUT PLANS:	
NT05-20-1105-502-1	NMT - LAYOUT PLAN - SHEET 1 OF 2
NT05-20-1105-502-2	NMT - LAYOUT PLAN - SHEET 2 OF 2
NT05-20-1105-502-3	STORMWATER - LAYOUT PLAN - SHEET 1 OF 2
NT05-20-1105-502-4	STORMWATER - LAYOUT PLAN - SHEET 2 OF 2
LONGITUDINAL SECTIONS	
NT05-20-1105-504-1	NMT - LONGITUDINAL SECTION
NT05-20-1105-504-2	STORMWATER - LONGITUDINAL SECTION - SHEET 1 OF 4
NT05-20-1105-504-3	STORMWATER - LONGITUDINAL SECTION - SHEET 2 OF 4
NT05-20-1105-504-4	STORMWATER - LONGITUDINAL SECTION - SHEET 3 OF 4
NT05-20-1105-504-5	STORMWATER - LONGITUDINAL SECTION - SHEET 4 OF 4
TYPICAL CROSS SECTIONS:	
NT05-20-1105-505-1	TYPICAL CROSS SECTION - SHEET 1 OF 2
NT05-20-1105-505-2	TYPICAL CROSS SECTION - SHEET 2 OF 2
NMT DETAIL CROSS SECTIONS	
NT05-20-1105-518-1	NMT DETAIL CROSS SECTIONS - SHEET 1
NT05-20-1105-518-2	NMT DETAIL CROSS SECTIONS - SHEET 2
STANDARD DETAILS	
NT05-20-1105-520-1	TYPICAL RAISED PEDESTRIAN CROSSING
NT05-20-1105-520-2	STORMWATER FILED INLET
NT05-20-1105-520-3	KERB INLET DETAILS
NT05-20-1105-520-4	TYPICAL CROSS CUT DETAILS
ELECTRICAL DRAWINGS	
NT04-21-1105-400-01-01	LIGHTING LAYOUT
NT04-21-1105-400-01-02	SINGLE LINE DIAGRAM
STRUCTURAL DRAWINGS	
NT05-20-1105-600-01	GENERAL ARRANGEMENT
NT05-20-1105-600-02	MODIFIED END WALL
NT05-20-1105-600-03	TRANSITION PIECES
NT05-20-1105-600-04	ENERGY DISSIPATING STRUCTURE



KEY PLAN



LOCALITY MAP

GENERAL NOTES:

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- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL PROJECT SPECIFICATIONS.
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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
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-18	ISSUED FOR DETAIL DESIGN	
F1	2022-06-06	ISSUED FOR TENDER	

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

PROJECT DESCRIPTION

**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

DISCIPLINE

ROADS & TRANSPORT

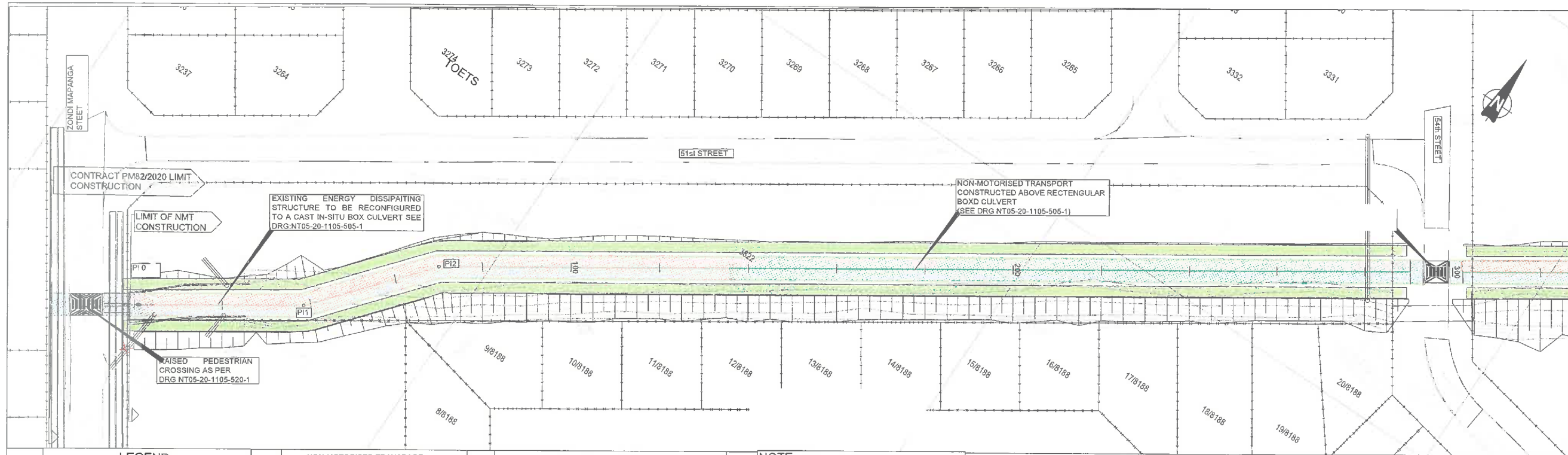
DRAWING DESCRIPTION

SITE LOCALITY PLAN

DESIGNED BY: K. MANGXABA Pr Tech, Eng.:201670156	SIGNATURE AND DATE: 06 JUNE 2022
DRAWN BY: T.v/d WESTHUIZEN	SIGNATURE AND DATE: 06 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 06 JUNE 2022
PROJECT NO 1105	DATE 06 JUNE 2022

NT05-20-1105-501-1

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



- GENERAL NOTES:**
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- LEGEND:**
- FENCE
 - ROAD EDGE
 - EMBANKMENTS
 - SEWER
 - WATER MAIN
 - STORMWATER
 - ELECTRICAL CABLES
 - BENCHMARK
 - CONTOURS
 - PEDESTRIAN LANE
 - CYCLE LANE

NON-MOTORISED TRANSPORT SETTING OUT DETAILS		
TRANSVERSE MERCATOR - WGS 84		
NAME	Y-COORD	X-COORD
Start	-40287.928	2638484.285
PI1	-40319.849	2638462.990
PI2	-40340.276	2638438.544
PI3	-40565.333	2638288.408
PI4	-40619.625	2638282.238
PI5	-40894.098	2638337.346
PI6	-40918.754	2638322.996
PI7	-40976.399	2638035.146
PI8	-40994.120	2638023.339
End	-41059.547	2638036.441

BENCHMARK SETTING OUT DETAILS			
TRANSVERSE MERCATOR - WGS 84			
NAME	Y-COORD	X-COORD	Z-COORD
BM1	-40279.2280	2638476.1890	1235.4680
BM2	-40517.8940	2638303.1880	1231.7410
BM3	-40643.7390	2638290.5780	1230.9070
BM4	-40767.6290	2638319.0330	1229.7290
BM5	-40888.7890	2638346.3770	1230.2080
BM6	-40965.9690	2637987.3740	1226.0490
BM7	-41296.8170	2638091.4750	1224.8840

NOTE:

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2. REFER TO DRAWINGS NT05-20-1105-502-3 TO NT05-20-1105-502-4 FOR THE SPECIFIC INFORMATION ON THE NEW STORMWATER SYSTEM.

REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-26	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

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PROJECT DESCRIPTION

**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

**NMT LAYOUT PLAN
SHEET 1 OF 2**

DESIGNED BY:
K. MANGABA
Pr Tech. Eng.:201670156

SIGNATURE AND DATE:

06 JUNE 2022

DRAWN BY:
T.v.d WESTHUIZEN

SIGNATURE AND DATE:

06 JUNE 2022

APPROVED BY:
M. GWABA
Pr Eng.:20140479

SIGNATURE AND DATE:

08 JUNE 2022

PROJECT NO
1105

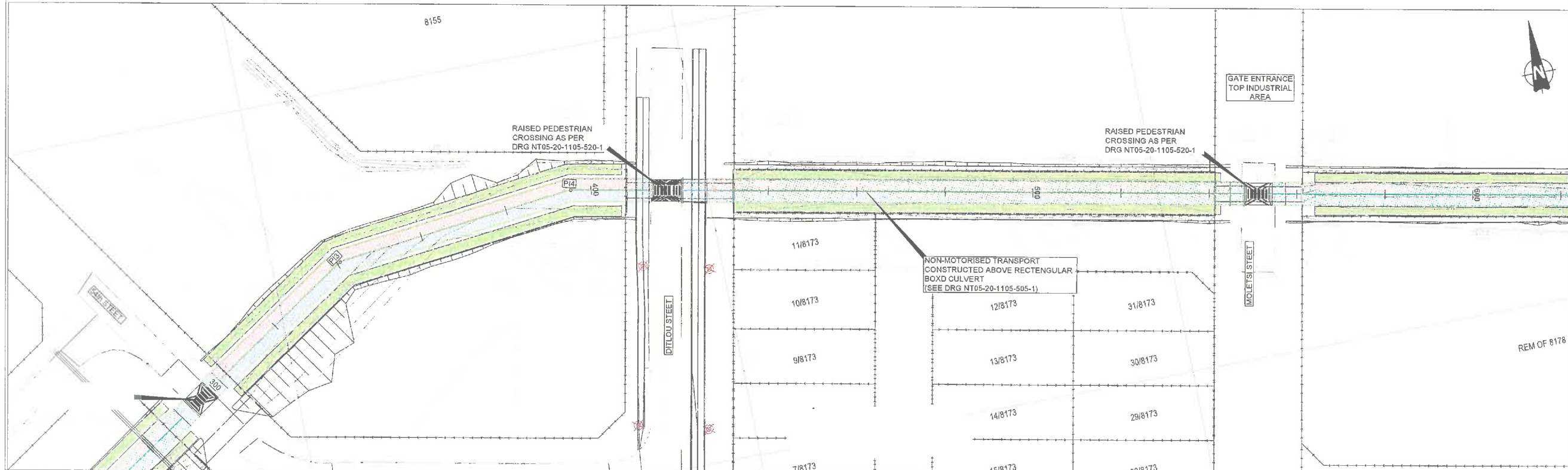
DATE
08 JUNE 2022

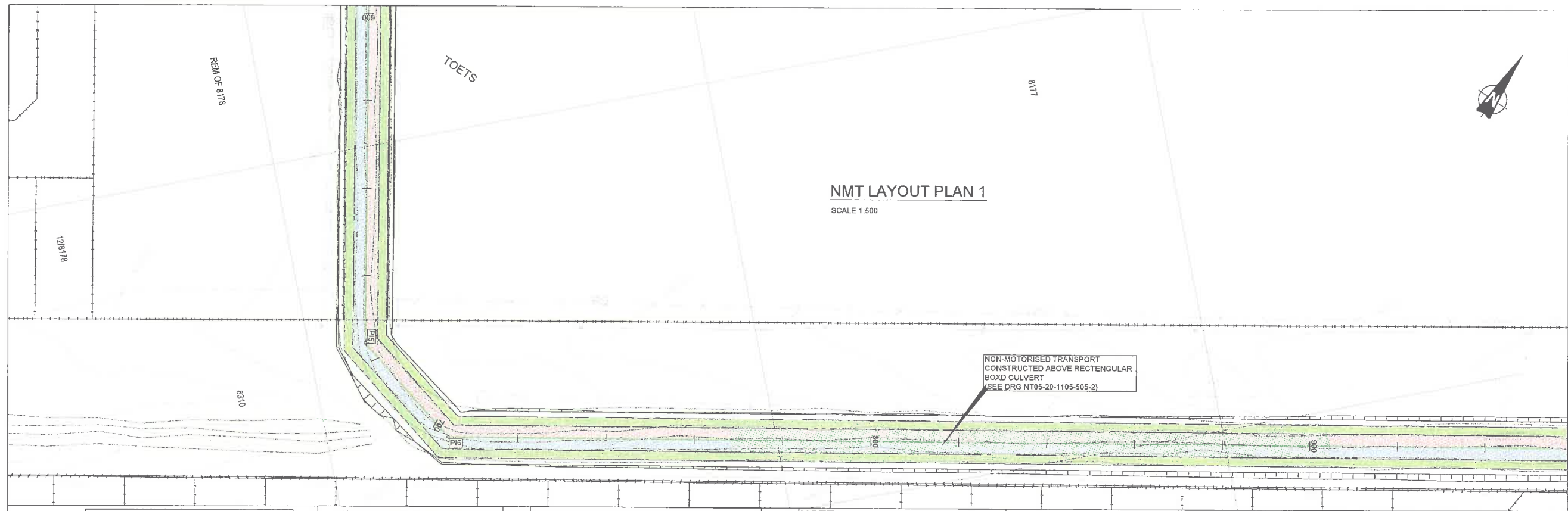
DRAWING NO
NT05-20-1105-502-1

SCALE
AS SHOWN

SHEET SIZE
A1

REVISION
F1





GENERAL NOTES:

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E1	2021-05-26	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

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PROJECT DESCRIPTION

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

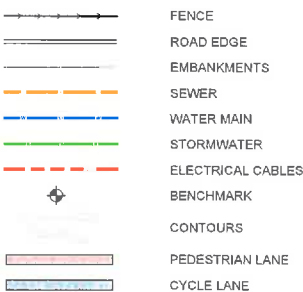
NMT LAYOUT PLAN
SHEET 2 OF 2

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 08 JUNE 2022
DRAWN BY: T.vd WESTHUIZEN	SIGNATURE AND DATE: 08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022

DRAWING NO
NT05-20-1105-502-2

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1

LEGEND:



NON-MOTORISED TRANSPORT SETTING OUT DETAILS

TRANSVERSE MERCATOR - WGS 84

NAME	Y-COORD	X-COORD
Start	-40287.928	2638484.285
PI1	-40319.849	2638462.990
PI2	-40340.276	2638438.544
PI3	-40555.333	2638288.408
PI4	-40619.625	2638282.238
PI5	-40894.098	2638337.346
PI6	-40918.754	2638322.995
PI7	-40976.399	2638035.146
PI8	-40994.120	2638023.339
End	-41059.547	2638036.441

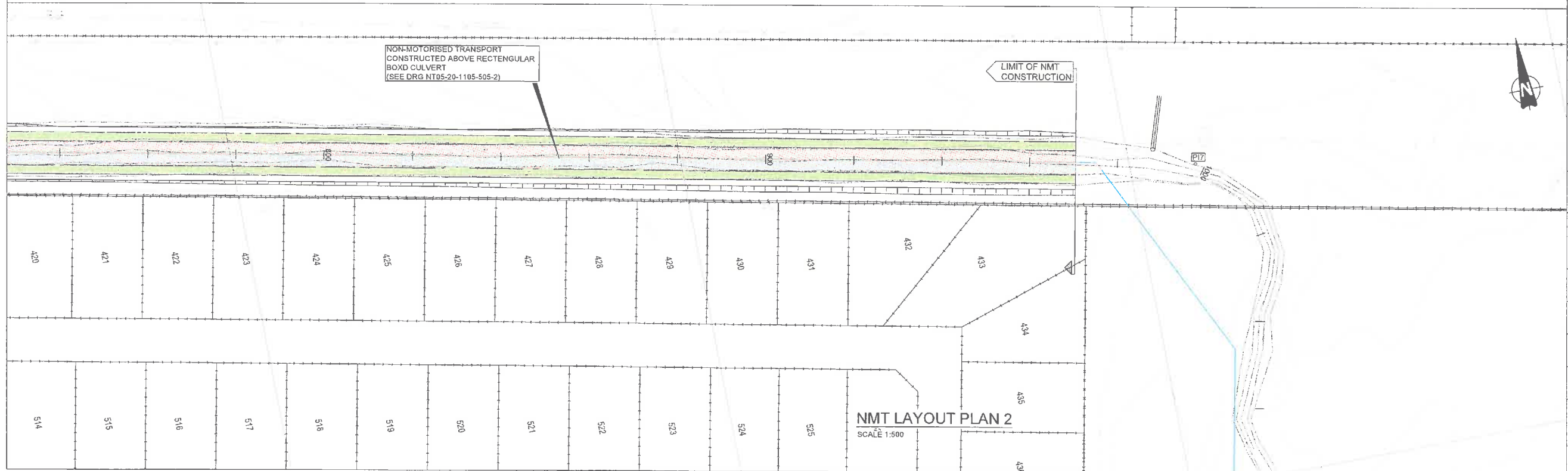
BENCHMARK SETTING OUT DETAILS

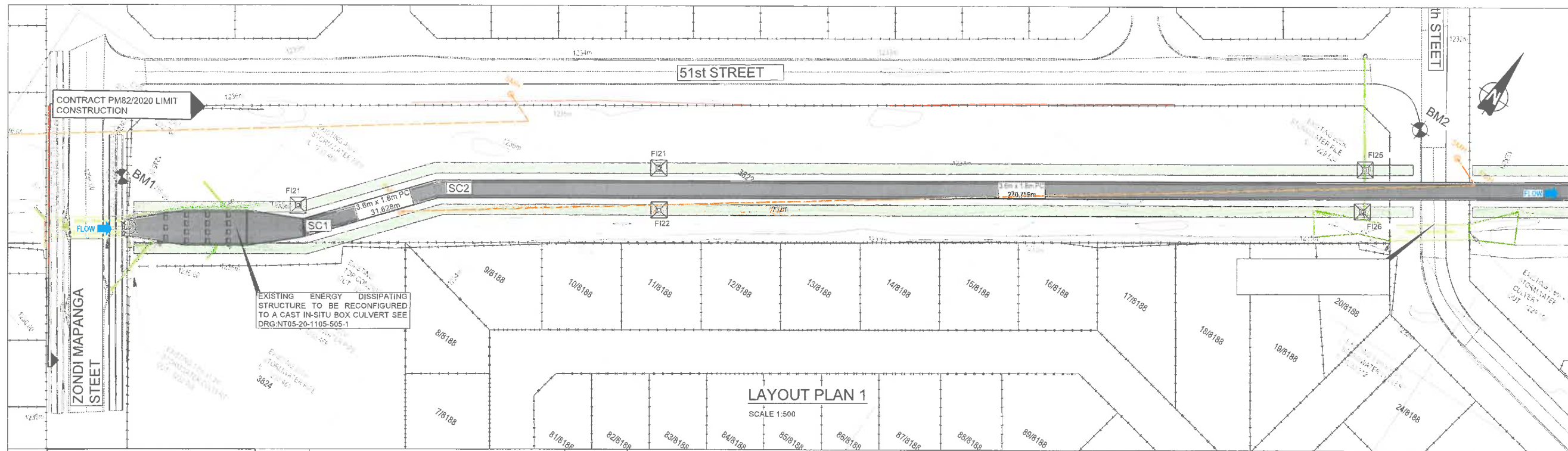
TRANSVERSE MERCATOR - WGS 84

NAME	Y-COORD	X-COORD	Z-COORD
BM1	-40279.2280	2638476.1890	1235.4680
BM2	-40517.8940	2638303.1880	1231.7410
BM3	-40643.7380	2638290.5780	1230.9070
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BM6	-40965.9690	2637987.3740	1226.0480
BM7	-41296.8170	2638091.4750	1224.8840

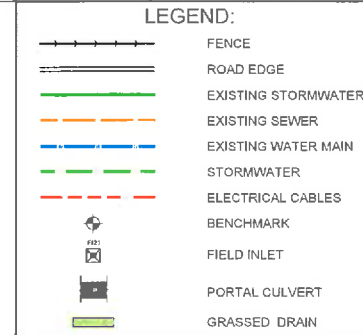
NOTE:

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2. REFER TO DRAWINGS NT05-20-1105-502-3 TO NT05-20-1105-502-4 FOR THE SPECIFIC INFORMATION ON THE NEW STORMWATER SYSTEM.





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STORMWATER SETTING OUT DATA - WGS 84

TRANSVERSE MERCATOR - WGS 84			
NODE NAME	Y-COORD	X-COORD	INVERT LEVEL
SC3	-40 586.574	2 638 282.843	1 229.114
SC4	-40 604.681	2 638 279.237	1 228.925
SC5	-40 895.430	2 638 337.813	1 226.204
SC6	-40 918.955	2 638 321.939	1 225.981
SC7	-40 976.399	2 638 035.146	1 223.781
SC8	-40 994.120	2 638 023.339	1 223.678
SC9	-41 014.957	2 638 027.511	1 220.572
SC1	-40 319.849	2 638 462.990	1 232.413

PROPOSED CULVERT GEOMETRY

LINK NAME	INLET NODE	OUTLET NODE	NUMBER OF BARRELS	CULVERT TYPE	SIZE (mm)	LENGTH (m)	SLOPE %	INVERT LEVEL (m)
LSC1	SC1	SC2-2	1	Portal Culvert	3600 x 1800	32	1.5	1 232.413
LSC2-2	SC2-2	SC3	1	Portal Culvert	3600 x 1800	271	0.9	1 231.938
LSC3	SC3	SC4	2	Portal Culvert	2400 x 1800	55	1.0	1 229.453
LSC4	SC4	SC5	2	Portal Culvert	2400 x 1800	281	1.0	1 228.925
LSC5	SC5	SC6	2	Portal Culvert	2400 x 2400	28	0.8	1 226.204
LSC6	SC6	SC7	2	Portal Culvert	2400 x 2400	292	0.8	1 225.981
LSC7	SC7	SC8	2	Portal Culvert	2400 x 2400	21	0.5	1 223.781
LSC8	SC8	SC9	2	Portal Culvert	2400 x 2400	21	0.5	1 223.678

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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-28	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

CLIENT



CONSULTANT



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

PROJECT DESCRIPTION

**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

DISCIPLINE

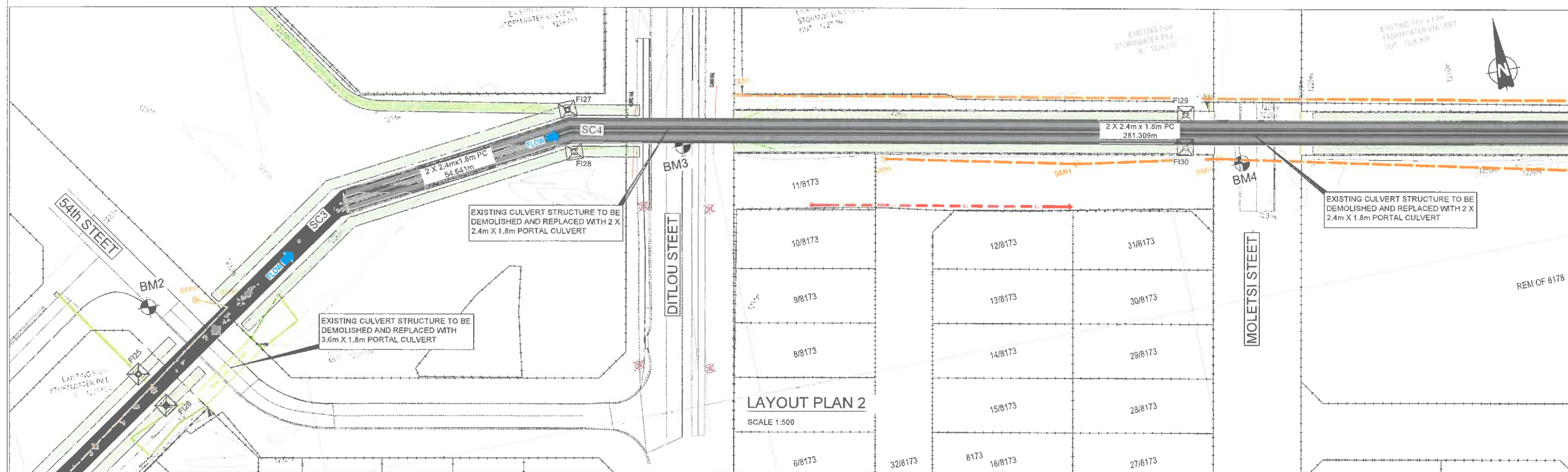
ROADS & TRANSPORT

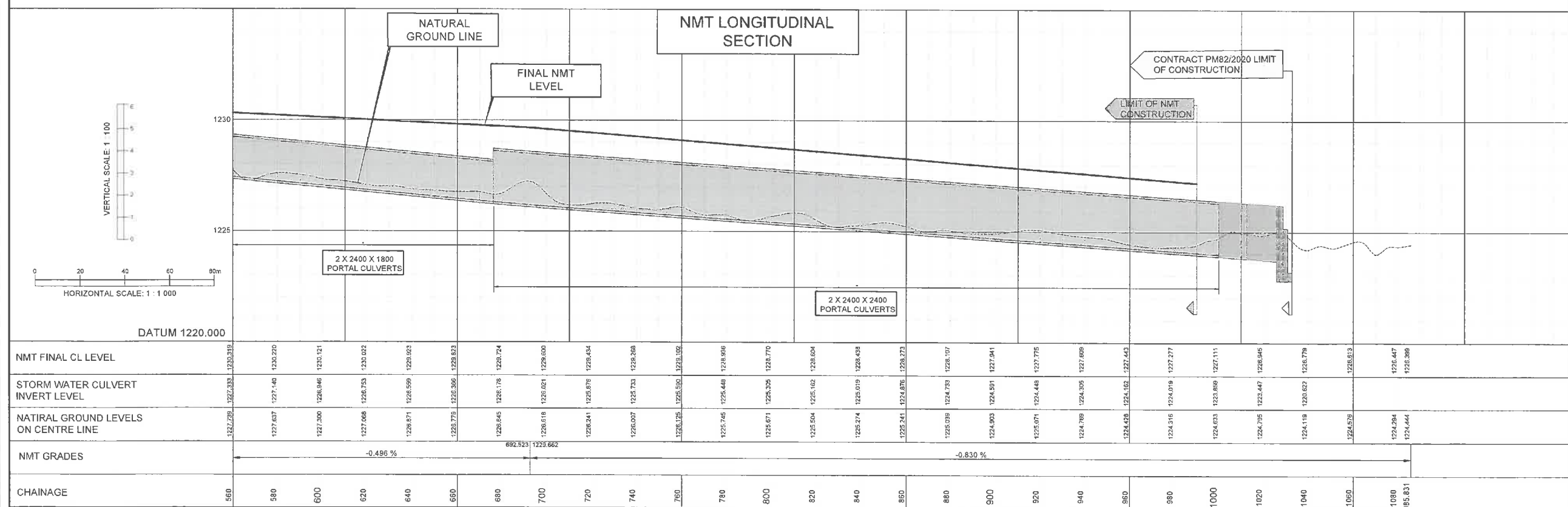
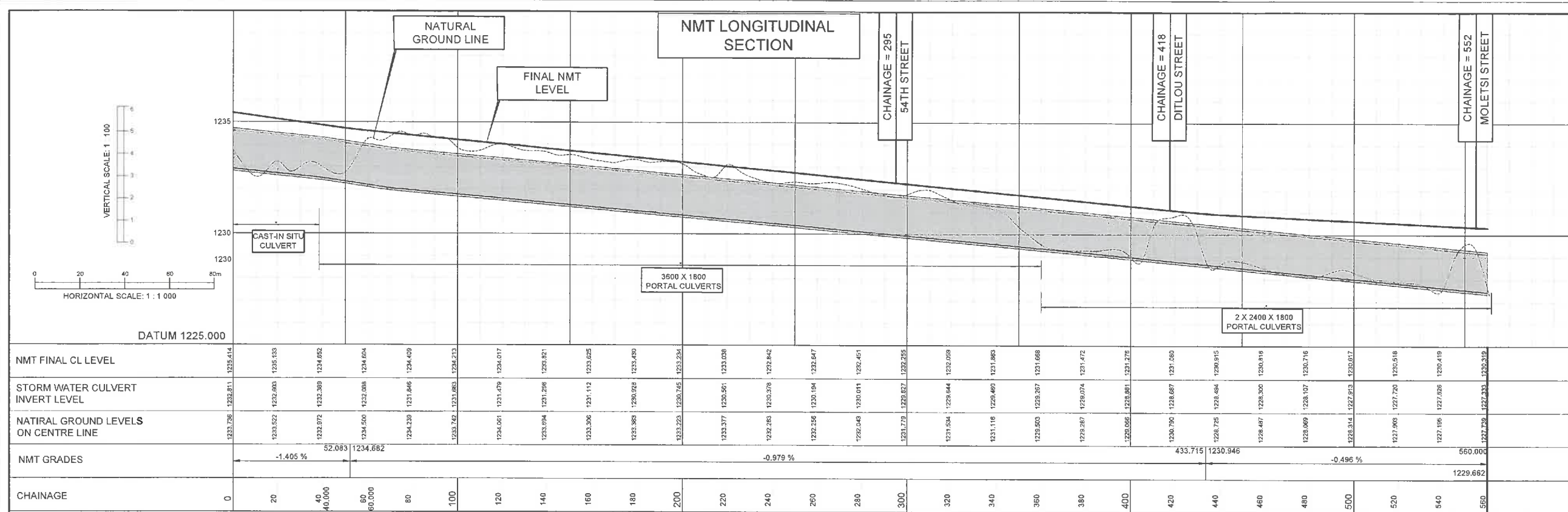
DRAWING DESCRIPTION

**STORMWATER LAYOUT PLAN
SHEET 1 OF 2**

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 08 JUNE 2022
DRAWN BY: T.vd WESTHUIZEN	SIGNATURE AND DATE: 08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022
DRAWING NO NT05-20-1105-502-3	

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1





- ### GENERAL NOTES:
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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-20	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

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

PROJECT DESCRIPTION
SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE
ROADS & TRANSPORT

DRAWING DESCRIPTION

NMT

LONGITUDINAL SECTION

DESIGNED BY: K. MANGXABA Pr Tech, Eng.:201670156	SIGNATURE AND DATE:  08 JUNE 2022
---	--

DRAWN BY: T.v/d WESTHUIZEN	SIGNATURE AND DATE:  08 JUL 2021
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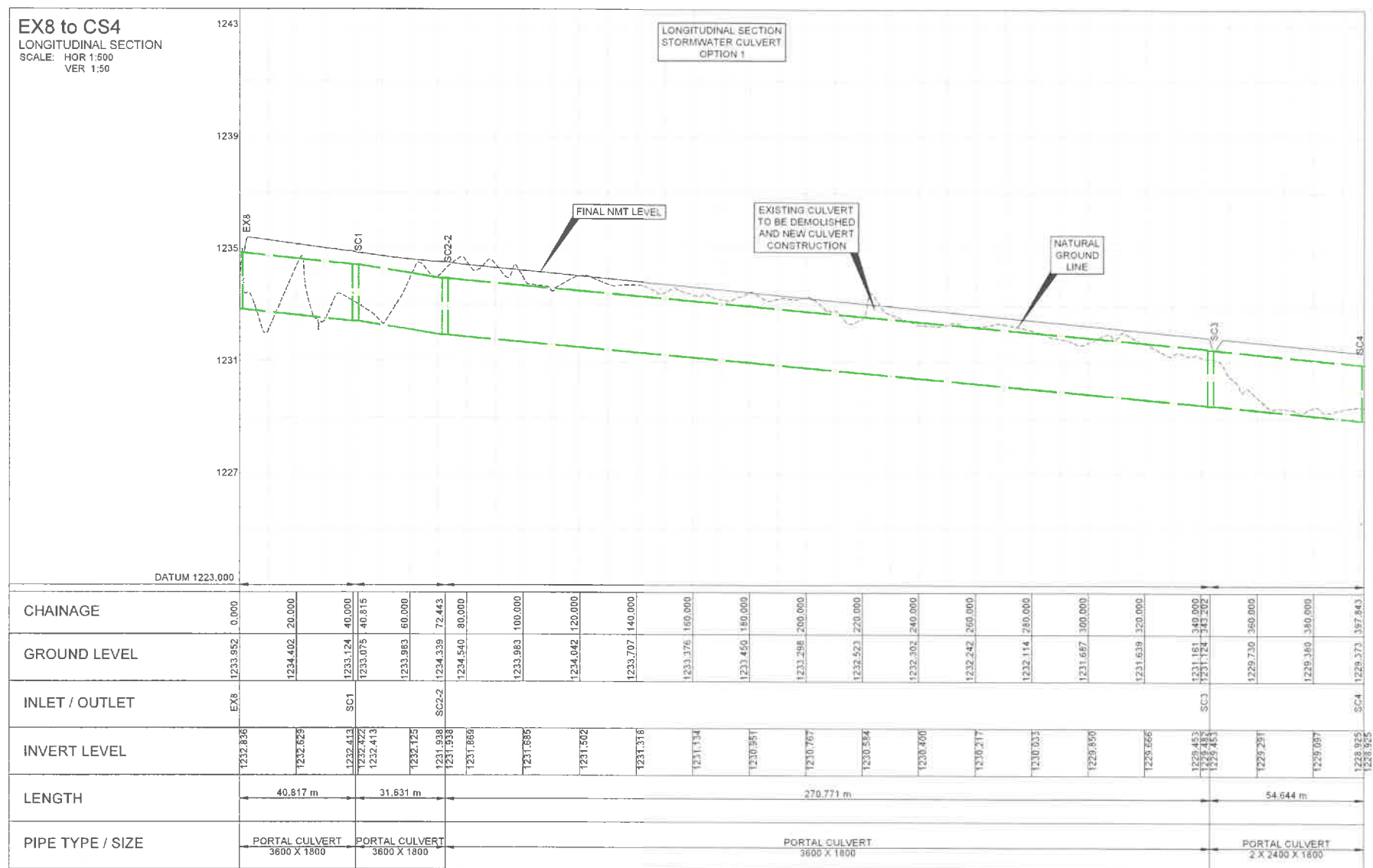
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  03 MAY 2023
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PROJECT NO	DATE
1105	08 JUNE 2022

DRAWING NO

NT05 20 1105 504 1

SCALE AS SHOWN	SHEET SIZE A1	REVISION F1
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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-26	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

CLIENT



CONSULTANT



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Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

STORMWATER
LONGSECTION SECTION
SHEET 1 OF 4

DESIGNED BY:
K. MANGXABA
Pr Tech., Eng.:201670156
SIGNATURE AND DATE:
08 JUNE 2022

DRAWN BY:
T.v/d WESTHUIZEN
SIGNATURE AND DATE:
08 JUNE 2022

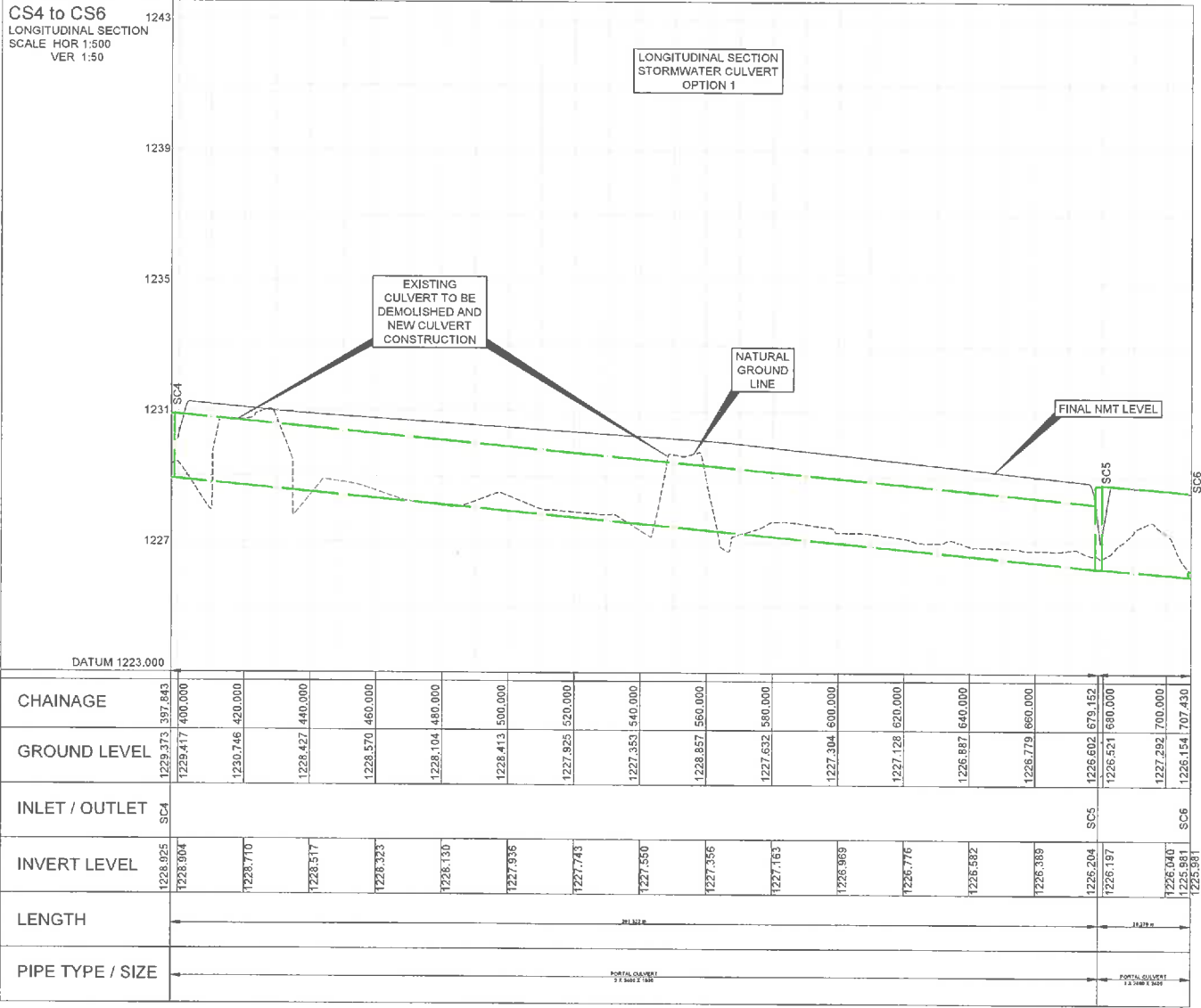
APPROVED BY:
M. GWABA
Pr Eng.:20140479
SIGNATURE AND DATE:
08 JUNE 2022

PROJECT NO
1105
DATE
08 JUNE 2022

DRAWING NO

NT05-20-1105-504-2

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



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REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-06-28	ISSUED FOR DETAIL DESIGN	
F1	2022-06-09	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 9941

PROJECT DESCRIPTION

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

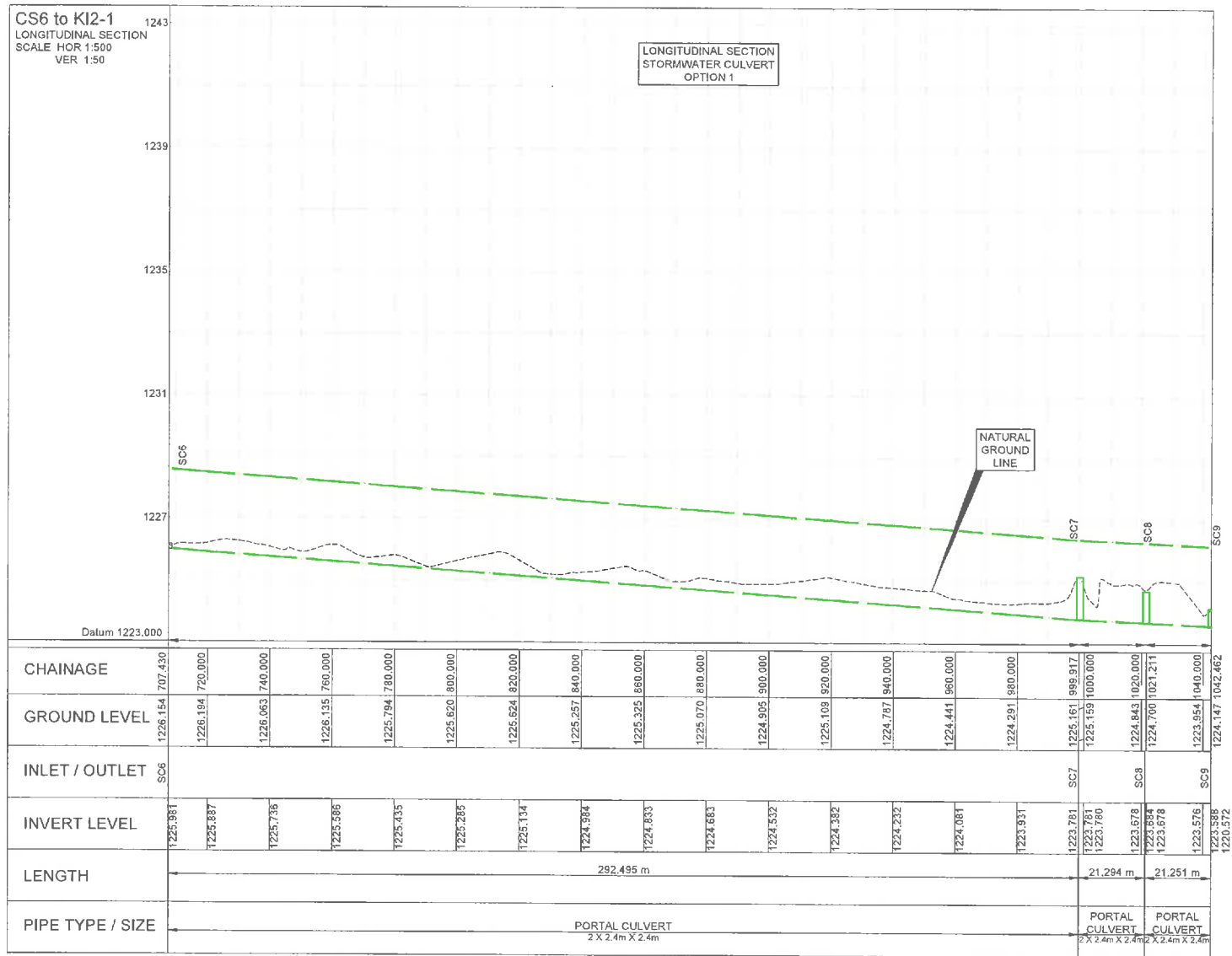
STORMWATER
LONGSECTION SECTION
SHEET 2 OF 4

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 08 JUNE 2022
DRAWN BY: T.vd WESTHUIZEN	SIGNATURE AND DATE: 08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022

DRAWING NO

NT05-20-1105-504-3

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



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B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-26	ISSUED FOR DETAIL DESIGN	
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CLIENT



CONSULTANT



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Polokwane, 0699
Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

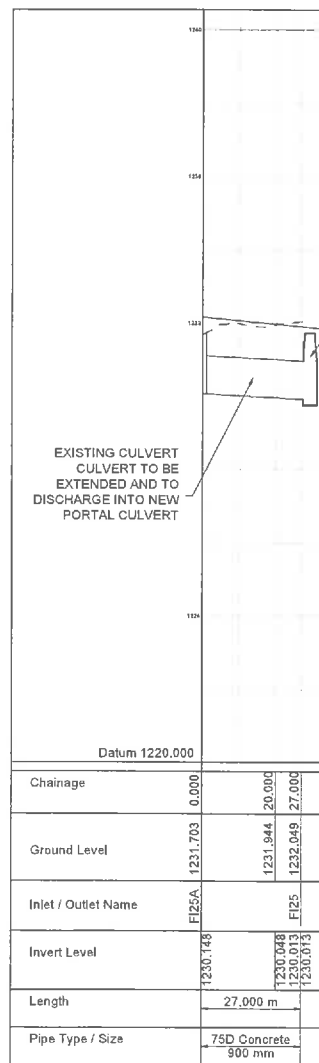
STORMWATER
LONGSECTION SECTION
SHEET 3 OF 4

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 08 JUNE 2022
DRAWN BY: T.v/d WESTHUIZEN	SIGNATURE AND DATE: 08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022

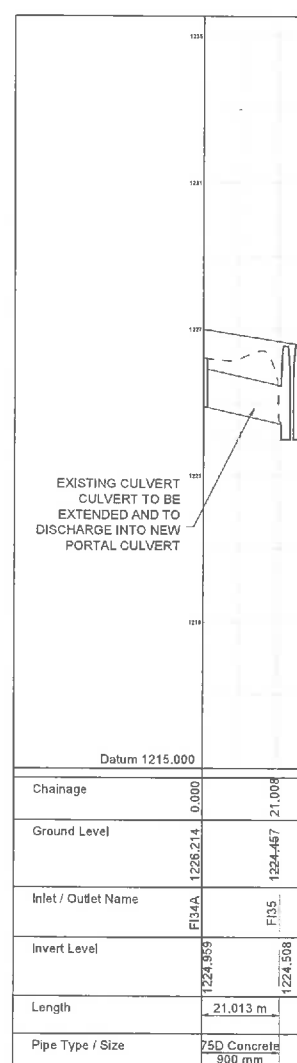
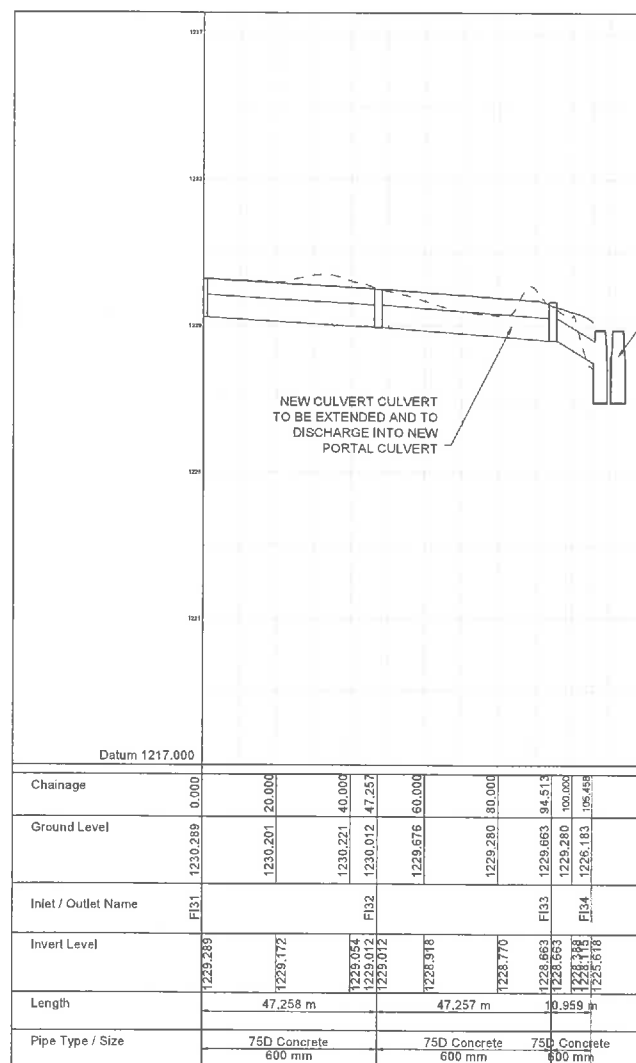
DRAWING NO

NT05-20-1105-504-4

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



Manhole FI25A to FI25



GENERAL NOTES:

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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
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-26	ISSUED FOR DETAIL DESIGN	
F1	2022-06-06	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

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

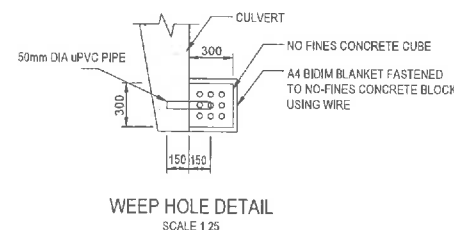
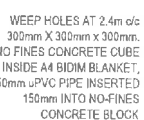
STORMWATER
LONGITUDINAL SECTION
SHEET 4 OF 4

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 08 JUNE 2022
DRAWN BY: T.v.d WESTHUIZEN	SIGNATURE AND DATE: 08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022

DRAWING NO

NT05-20-1105-504-5

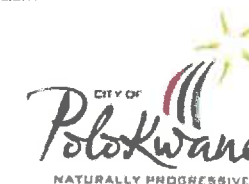
SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



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No:	DATE	DESCRIPTION:
B1	2021-02-02	ISSUED FOR PRELIM DESIGN
E1	2021-05-28	ISSUED FOR DETAIL DESIGN
F1	2022-06-08	ISSUED FOR TENDER

CLIENT



CONSULTANT



AMCE
19 Neethling Street
Bendor Ext 30,
Polokwane, 0699
Tel No. (015) 295 9914 Fax No. (015) 295 994

PROJECT DESCRIPTION
**SESHEGO NDPG:
 STORMWATER CANAL
 PHASE 2**

DISCIPLINE
ROADS & TRANSPORT

DRAWING DESCRIPTION
TYPICAL CROSS SECTION
CULVERT SINGLE BARREL
SHEET 1 OF 2

DESIGNED BY: K. MANGXABA Pr Tech, Eng.:201670156	SIGNATURE AND DATE:  08 JUNE 2021
---	--

DRAWN BY: T.v/d WESTHUIZEN	SIGNATURE AND DATE:  08 JUNE 2022
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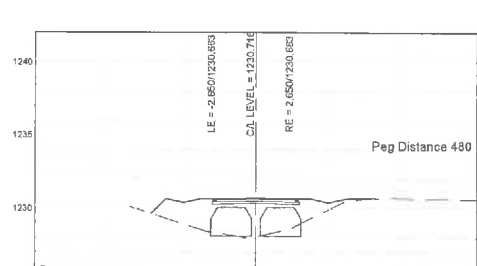
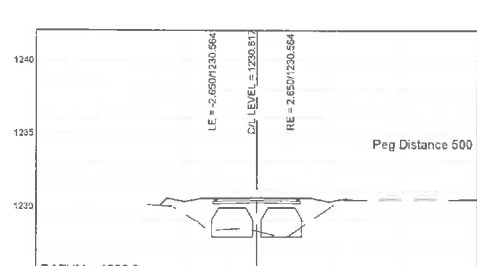
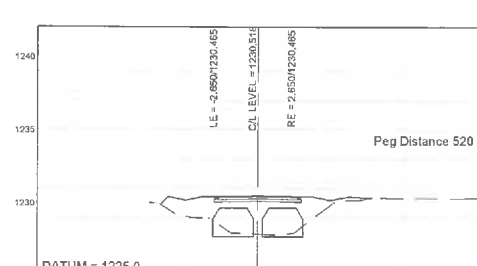
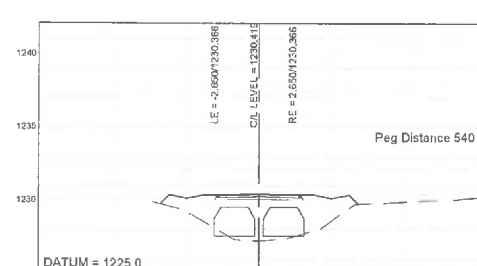
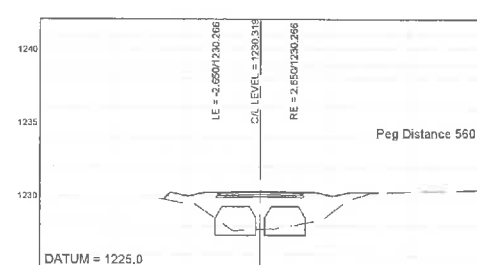
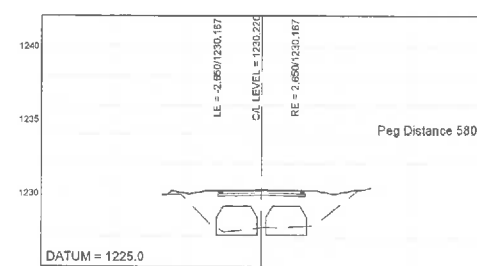
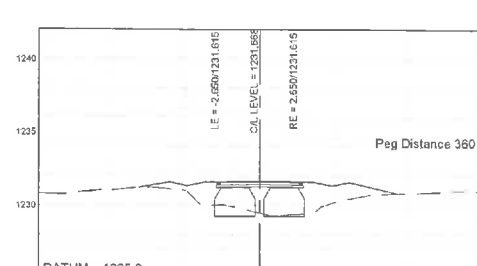
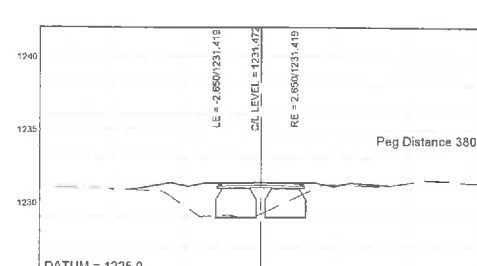
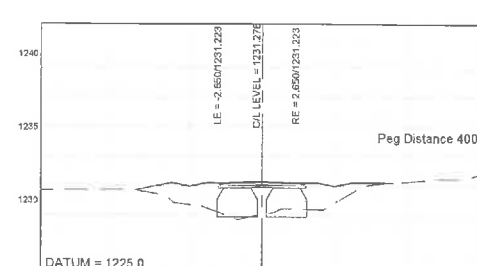
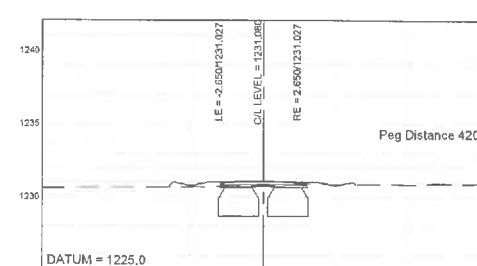
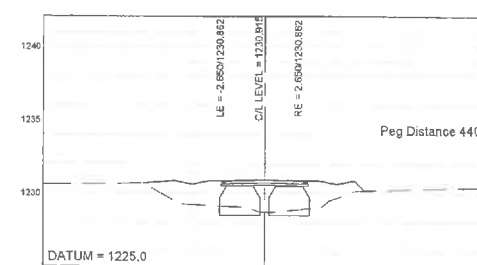
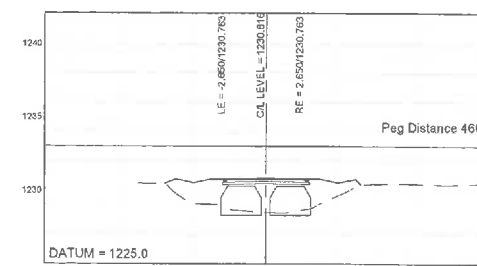
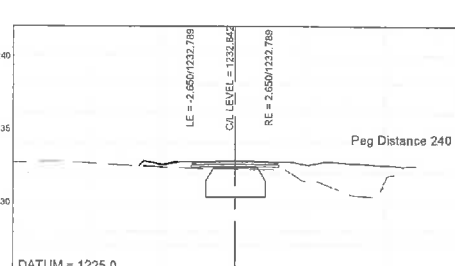
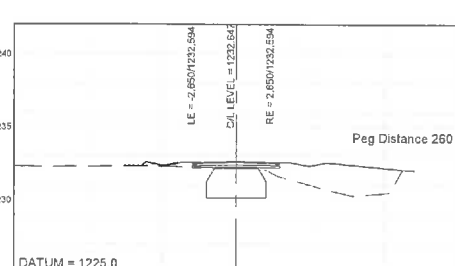
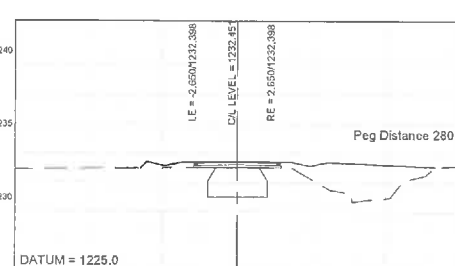
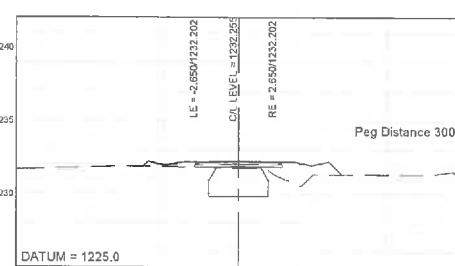
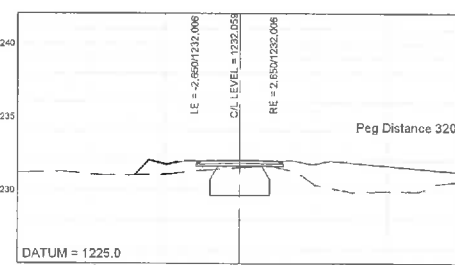
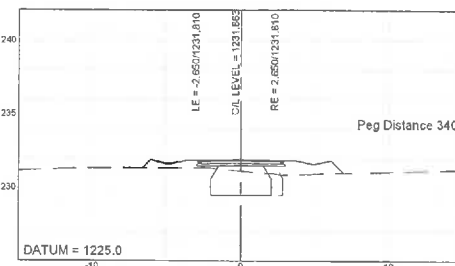
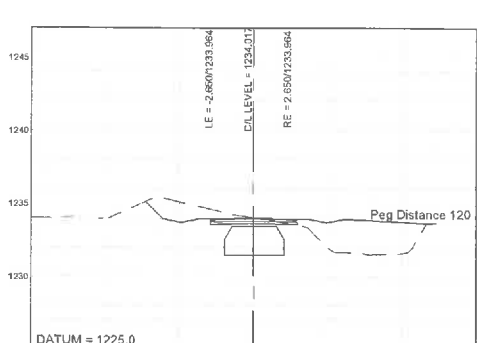
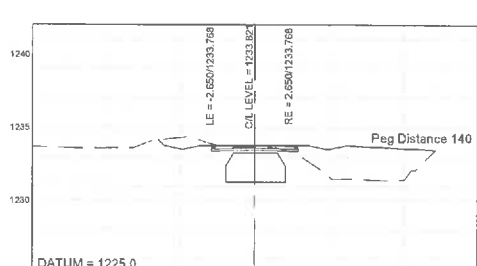
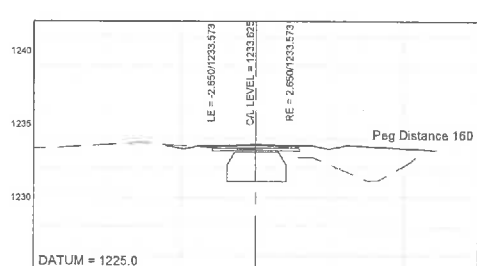
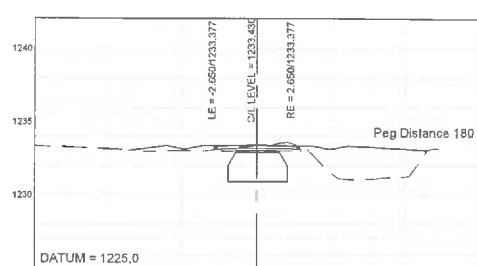
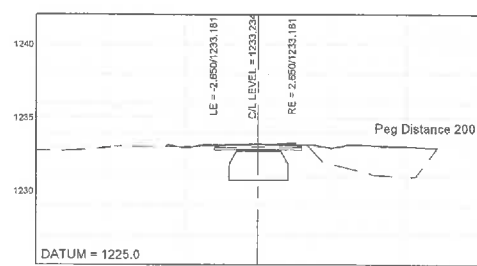
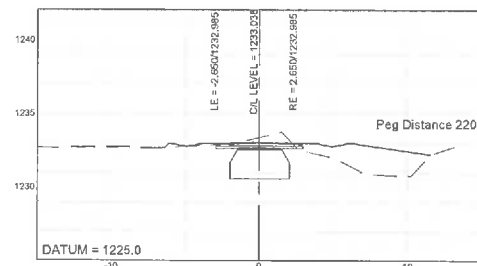
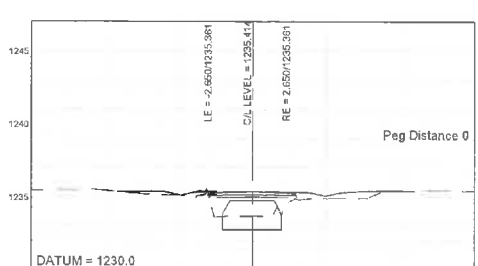
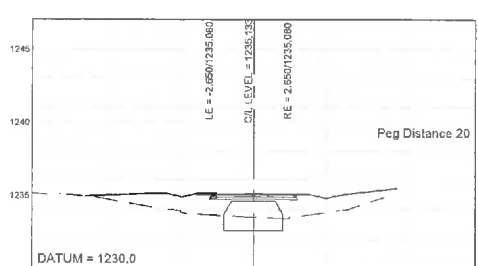
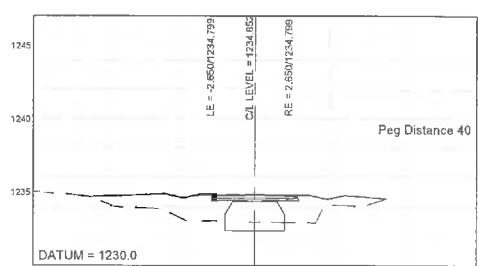
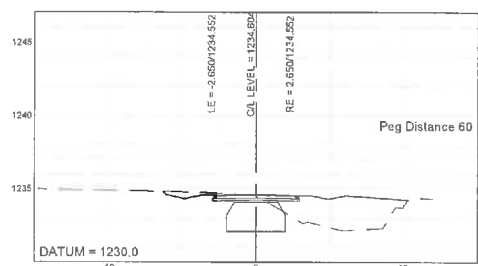
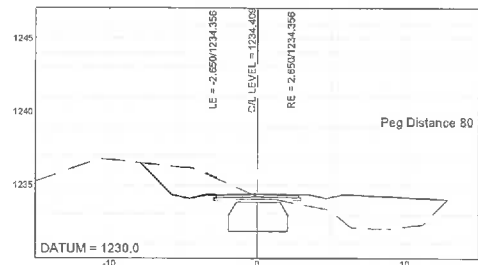
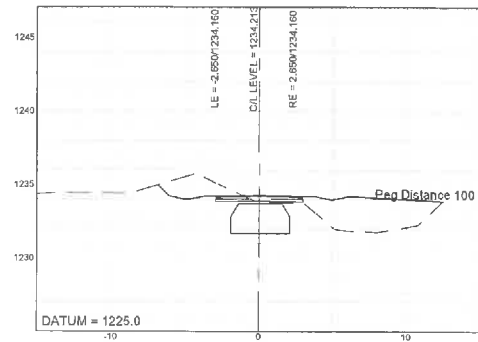
APPROVED BY:
M. GWABA
Pr Eng.:20140479

PROJECT NO 1105	DATE 08 JUNE 2022
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DRAWING NO

NT05-20-1105-505-1

SCALE AS SHOWN	SHEET SIZE A1	REVISION F1
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SOL - SETTING OUT LINE
LE - LEFT EDGE
RE - RIGHT EDGE

REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-28	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

CLIENT



CONSULTANT



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

PROJECT DESCRIPTION

SESOGMO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

DETAIL CROSS SECTIONS
NON-MOTORIZED TRANSPORT & CULVERT
SHEET 1 OF 2

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

DRAWN BY:
T.vd WESTHUIZEN

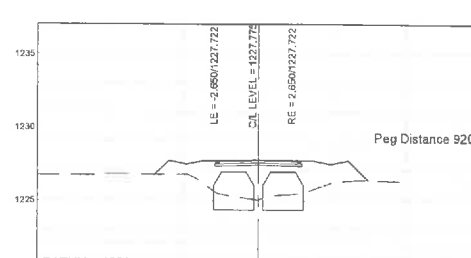
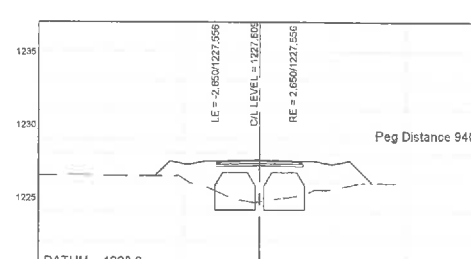
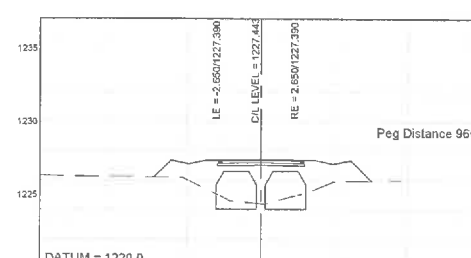
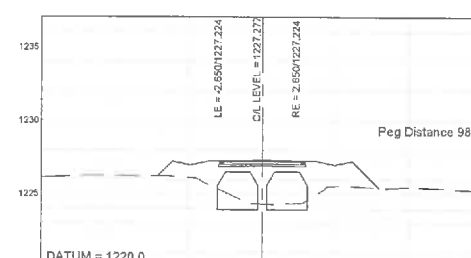
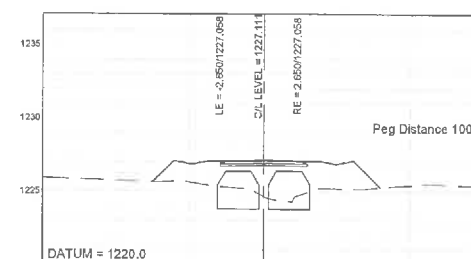
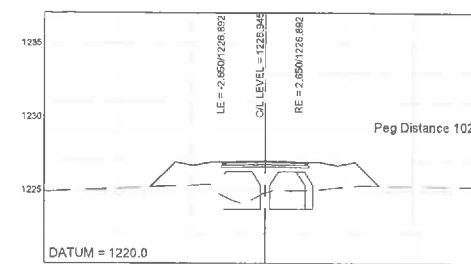
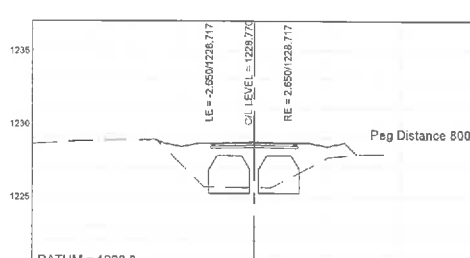
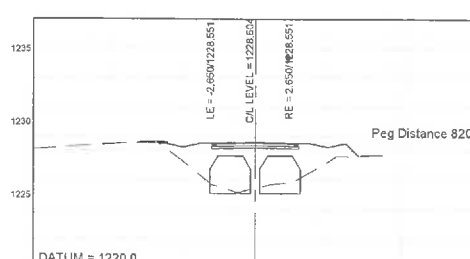
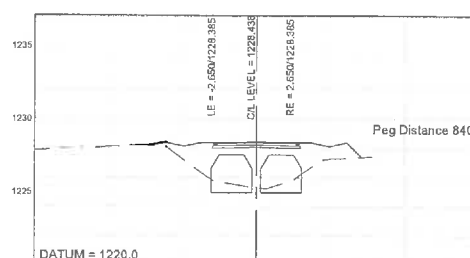
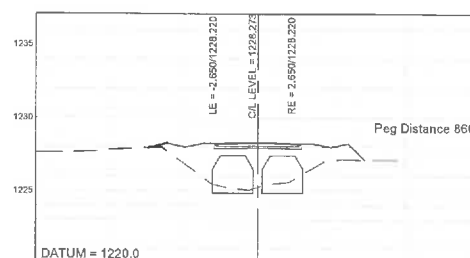
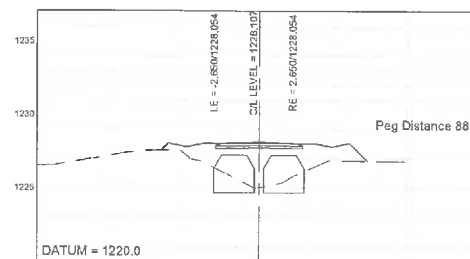
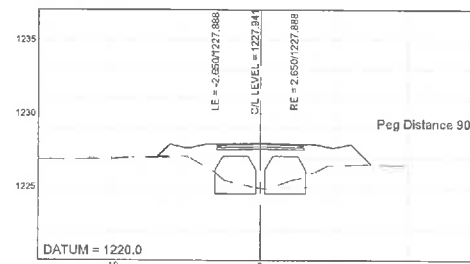
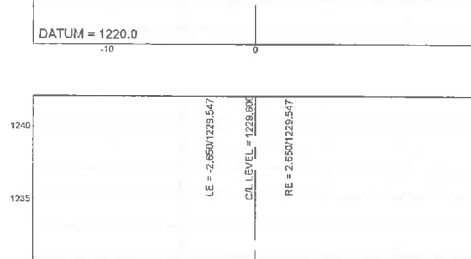
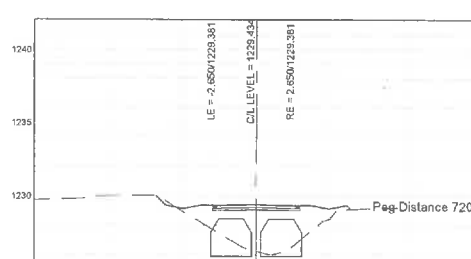
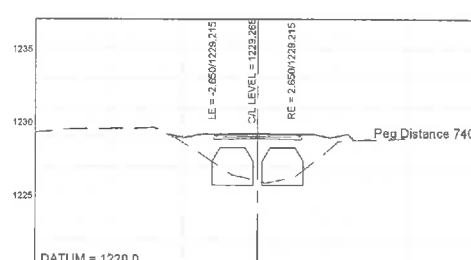
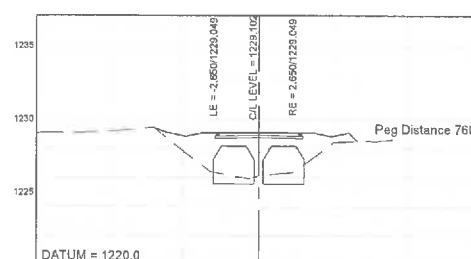
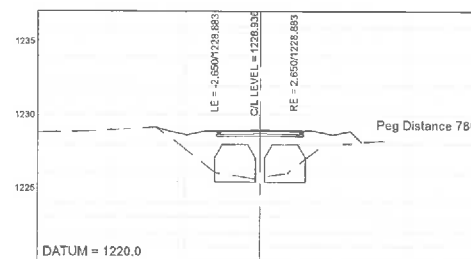
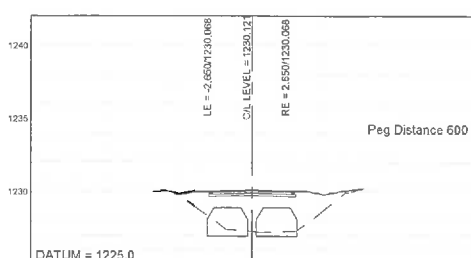
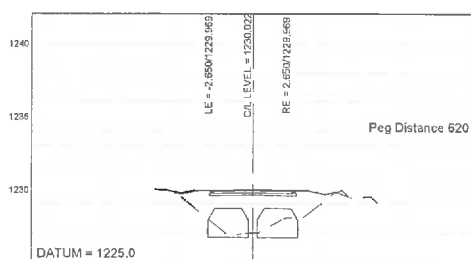
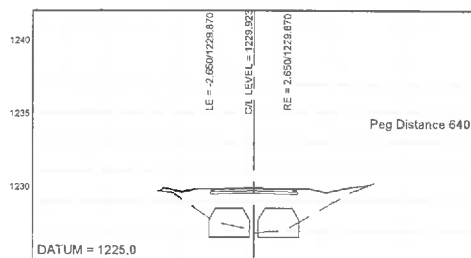
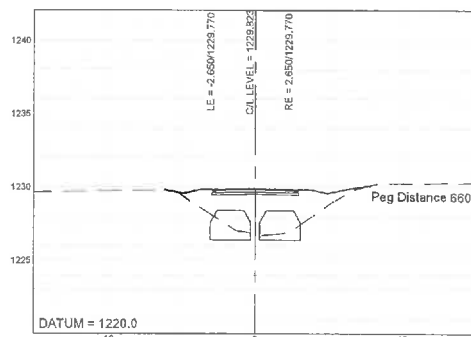
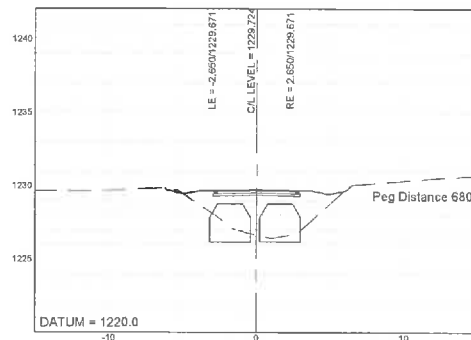
APPROVED BY:
M. GWABA
Pr Eng.:20140479

PROJECT NO
1105

DRAWING NO

NT05-20-1105-518-1

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
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-28	ISSUED FOR DETAIL DESIGN	
F1	2022-06-08	ISSUED FOR TENDER	

CLIENT



CONSULTANT



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

PROJECT DESCRIPTION

**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

DISCIPLINE

ROADS & TRANSPORT

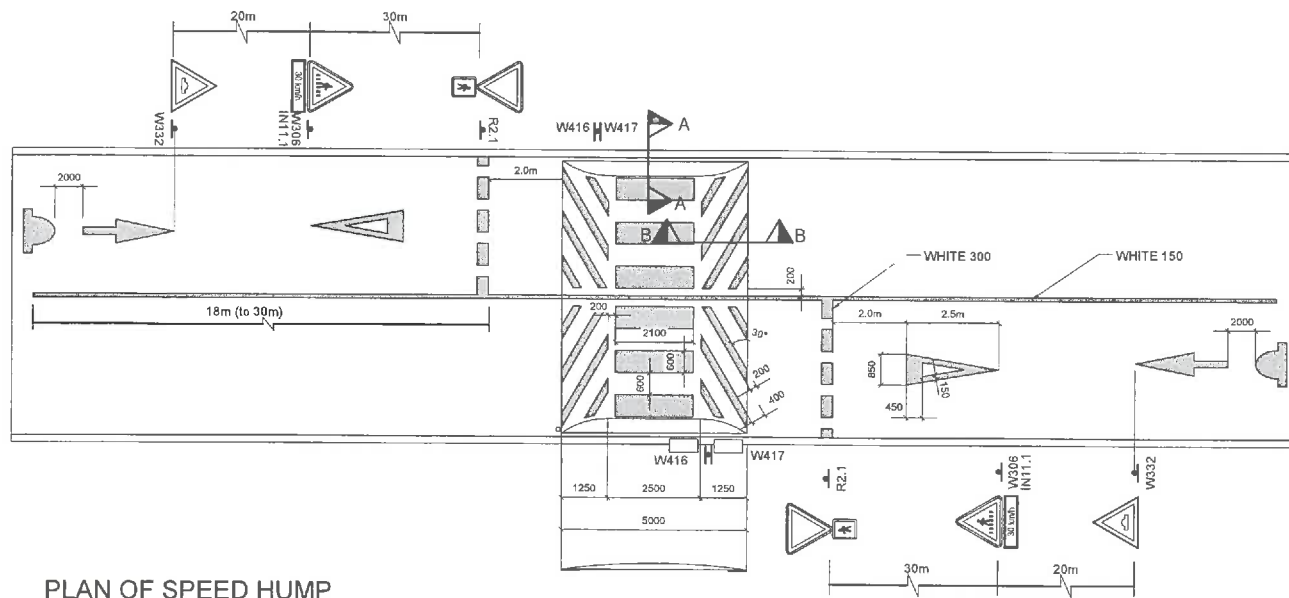
DRAWING DESCRIPTION

**DETAIL CROSS SECTIONS
NON-MOTORIZED TRANSPORT & CULVERT
SHEET 2 OF 2**

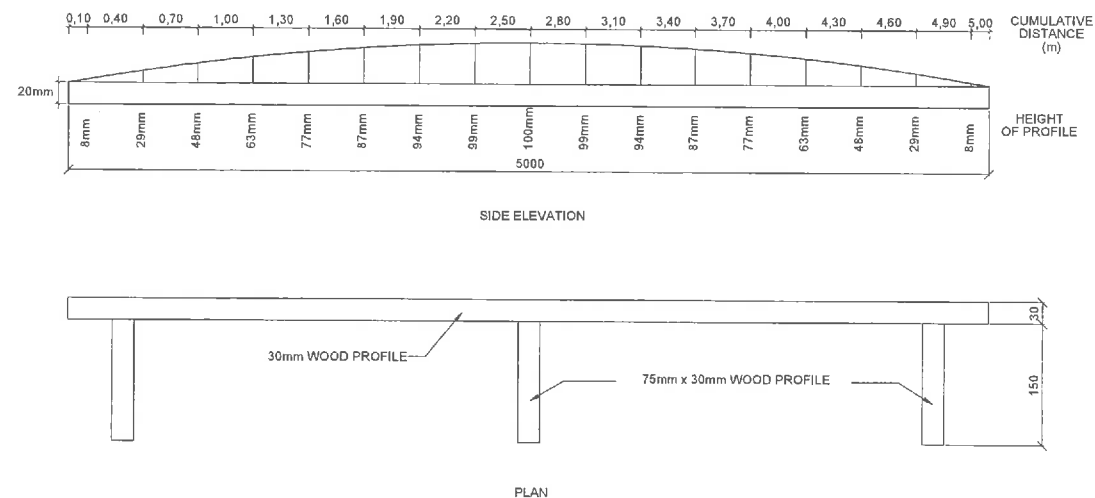
DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE: 08 JUNE 2022
DRAWN BY: T.v.d WESTHUIZEN	SIGNATURE AND DATE: 08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE: 08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022
DRAWING NO	

NT05-20-1105-518-2

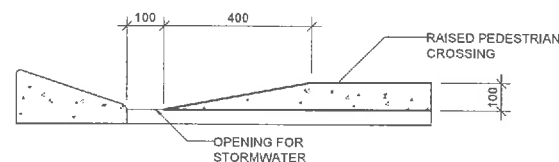
SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



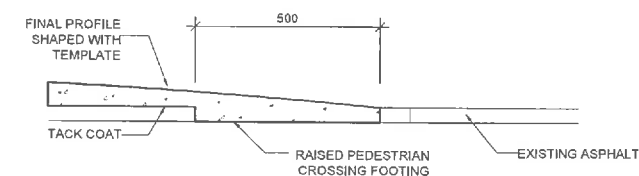
PLAN OF SPEED HUMP
SCALE 1:100



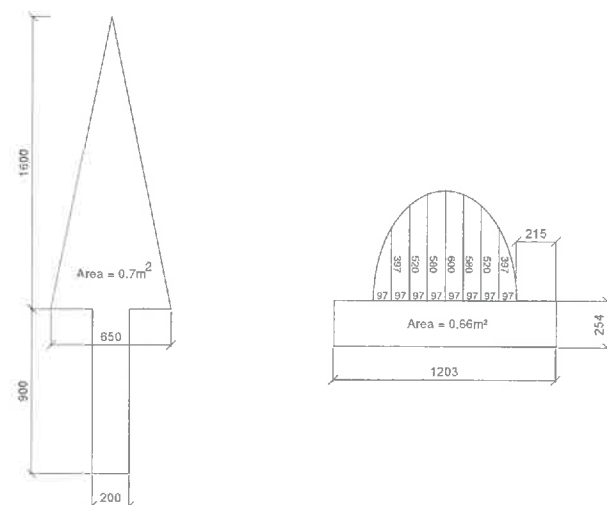
SPEED HUMP SETTING OUT
SCALE 1:20



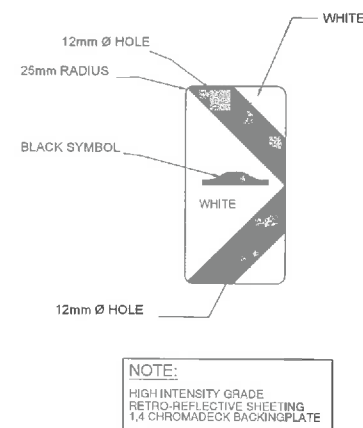
SECTION A-A CONSTRUCTION DETAIL OF SPEED HUMP
SCALE 1:10



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



DETAIL OF SPEED HUMP ROAD MARKING
SCALE 1:10



NOTE:
HIGH INTENSITY GRADE
RETRO-REFLECTIVE SHEETING
1.4 CHROMADECK BACKINGPLATE

NOTES:

CONSTRUCTION METHOD:

1. SETTING OUT OF HUMP- FEW DAYS BEFORE CONSTRUCTION.
2. SAW CUT 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 SIDE OF ONE LANE AT A TIME.
7. PLACE ASPHALT AND RAKE TILL SLIGHTLY HIGHER THAN TEMPLATES.
8. SHAPE ASPHALT WITH STRAIGHT EDGE (CHANNEL SECTION 6m 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. PAINT SPEED HUMP THE NEXT DAY.

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No.	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-28	ISSUED FOR DETAIL DESIGN	
F1	2023-06-08	ISSUED FOR TENDER	

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CONSULTANT



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

PROJECT DESCRIPTION

**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

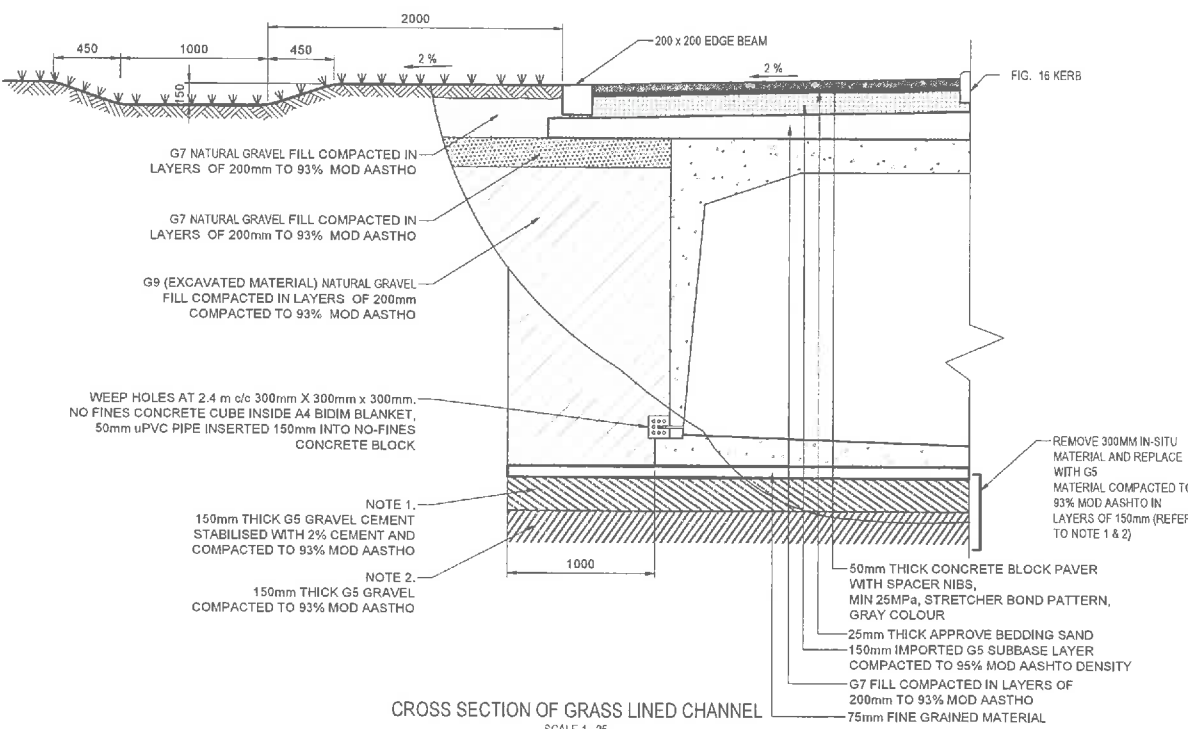
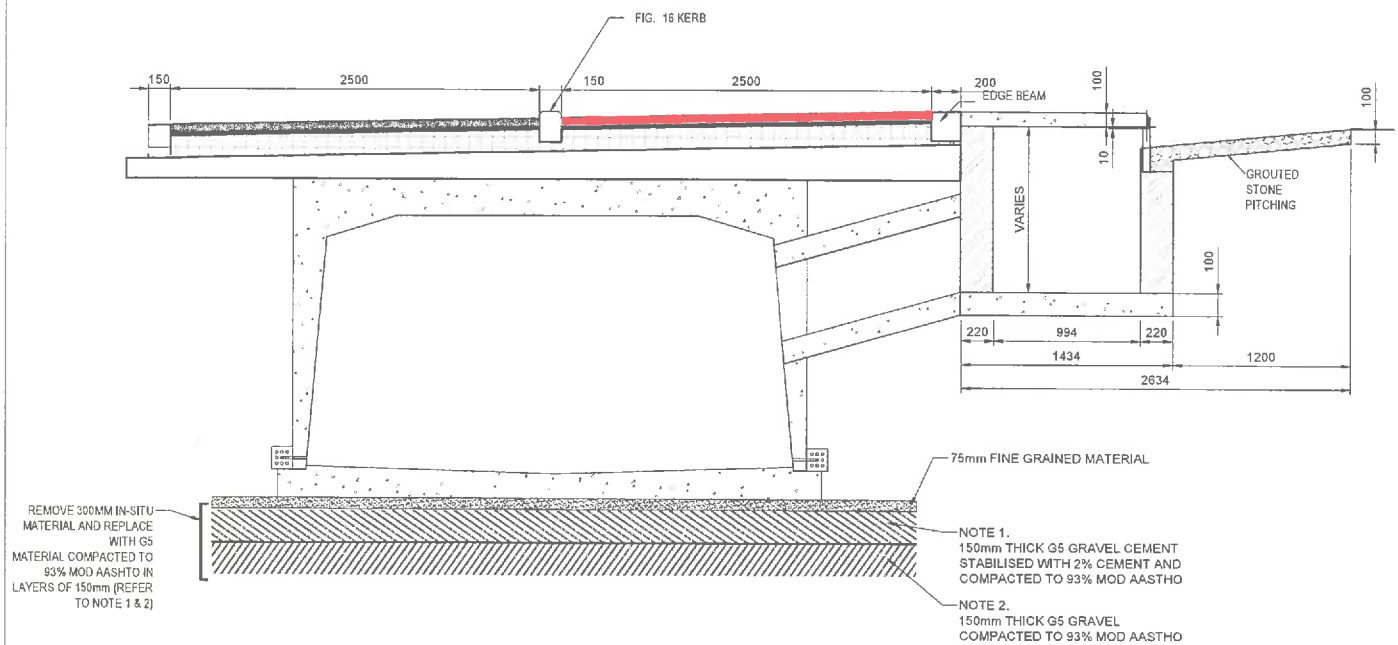
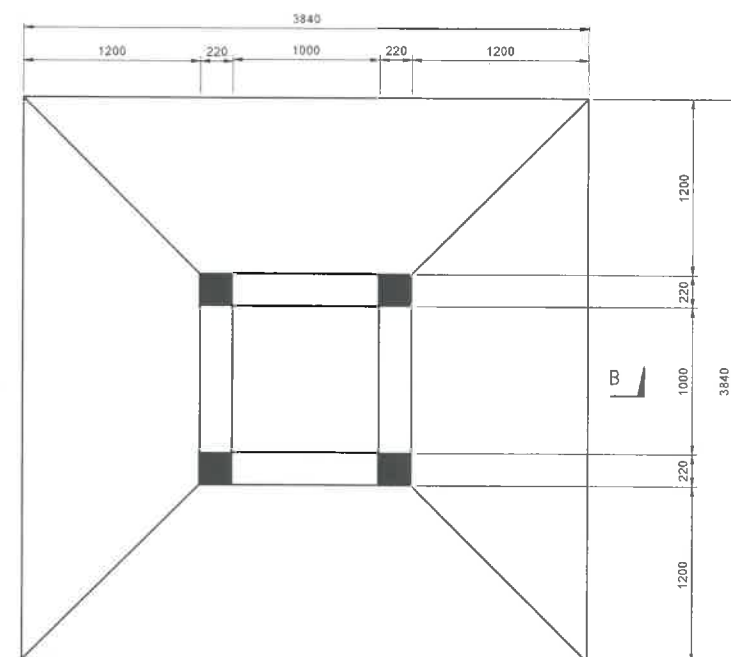
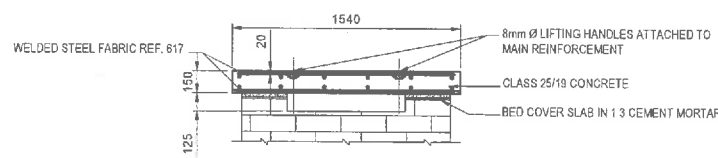
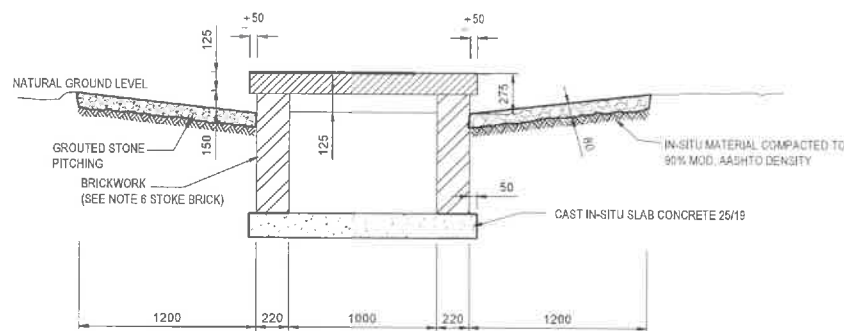
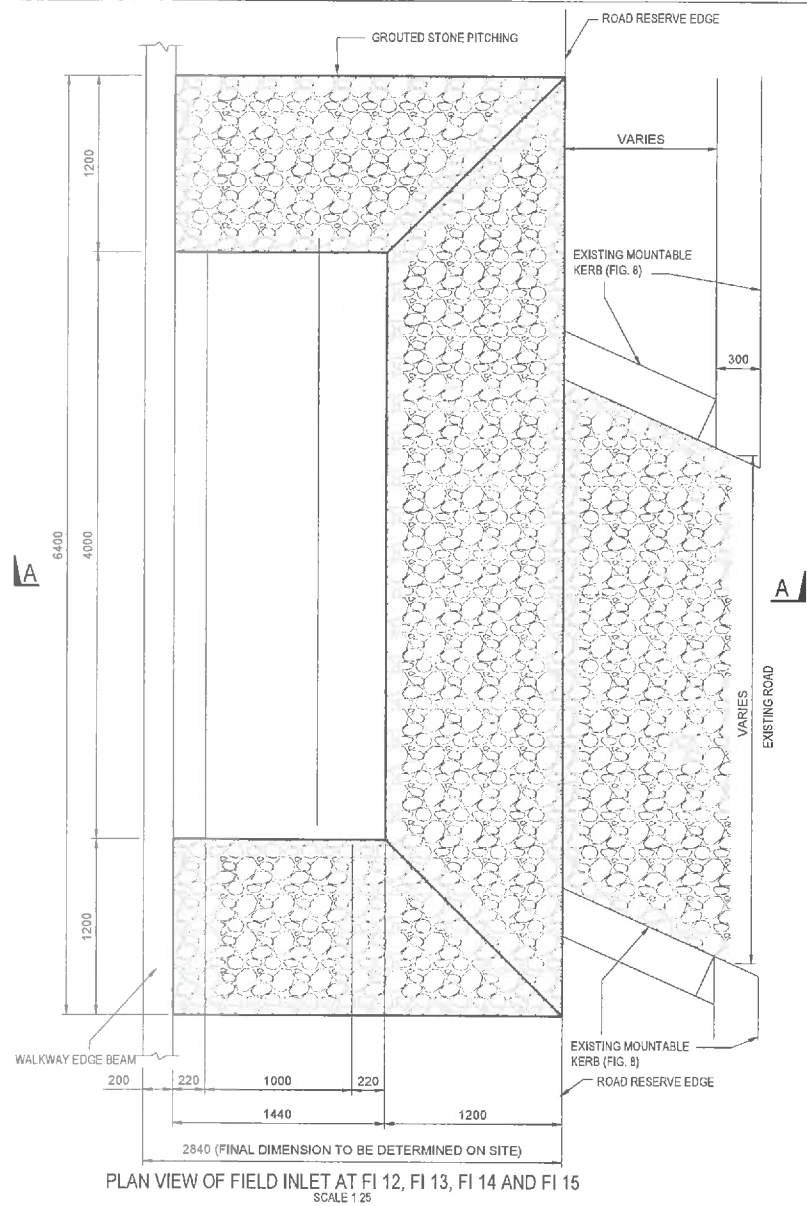
DISCIPLINE

ROADS & TRANSPORT

DRAWING DESCRIPTION

**TYPICAL RAISED
PEDESTRIAN CROSSING**

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  08 JUNE 2022
DRAWN BY: T.v/d WESTHUIZEN	SIGNATURE AND DATE:  08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022
DRAWING NO NT05-20-1105-520-1	
SCALE AS SHOWN	SHEET SIZE A1
	REVISION 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.
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 6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.

REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-28	ISSUED FOR DETAIL DESIGN	
F1	2022-06-06	ISSUED FOR TENDER	

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CITY OF Polokwane
NATURALLY PROGRESSIVE

CONSULTANT



amce

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Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION
**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

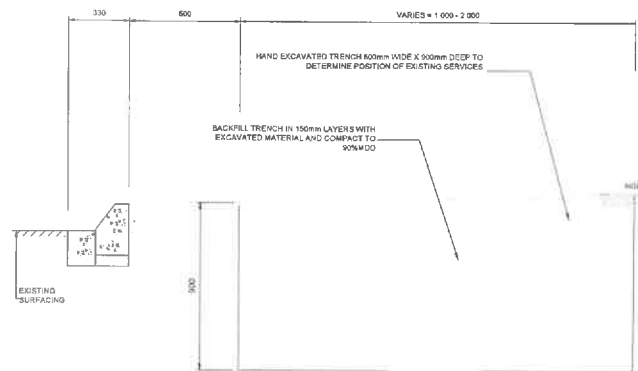
DISCIPLINE
ROADS & TRANSPORT

DRAWING DESCRIPTION
**STORMWATER FIELD
INLET DETAILS**

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670156	SIGNATURE AND DATE:  08 JUNE 2022
DRAWN BY: T.vd WESTHUIZEN	SIGNATURE AND DATE:  08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022

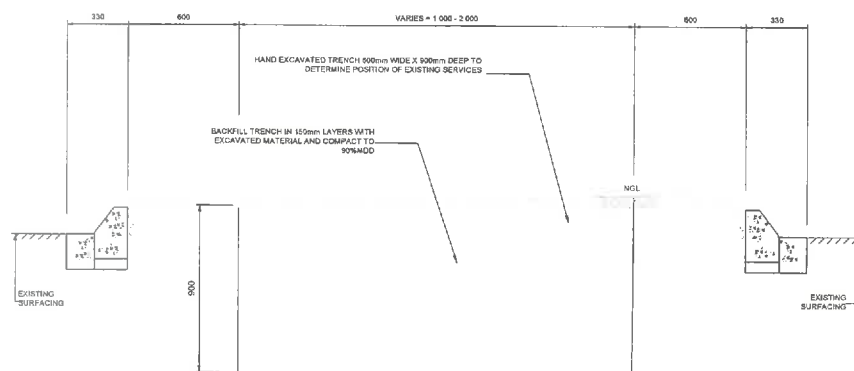
DRAWING NO
NT05-20-1105-520-2

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1

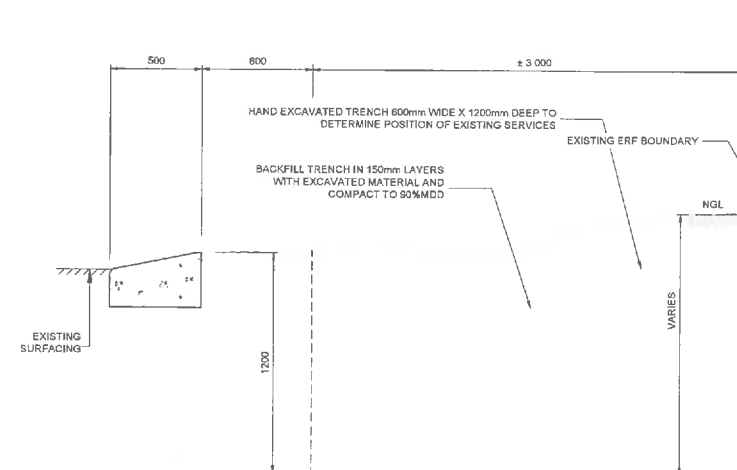


CROSS CUT DESIGN ON SHOULDER WITH NO PAVING OR HARD SURFACE
SCALE 1:20

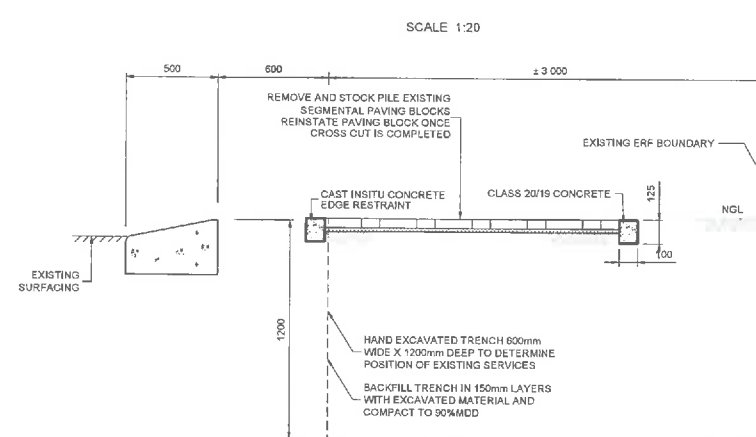
CROSS CUT DESIGN ON SHOULDER WITH NO PAVING OR HARD SURFACE
SCALE 1:150



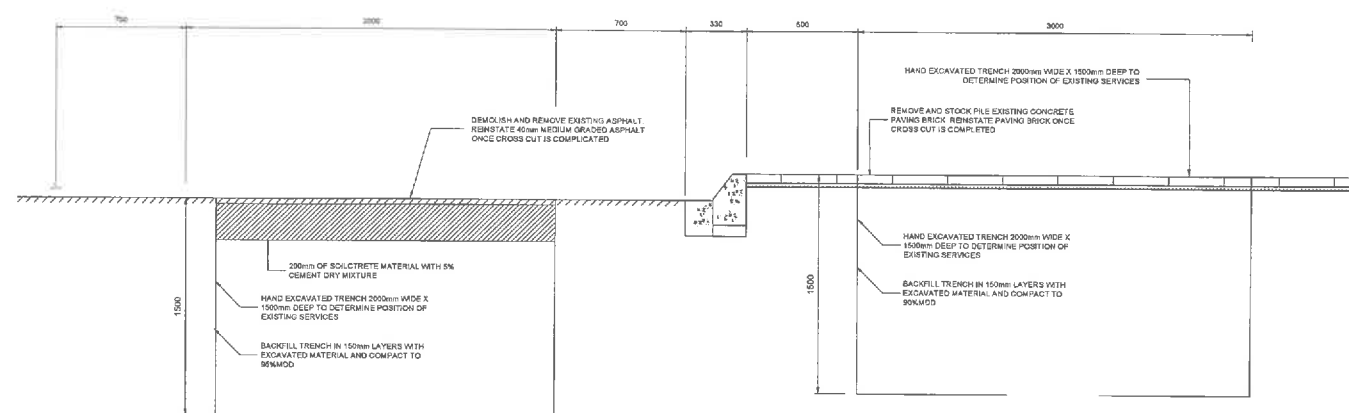
CROSS CUT DESIGN ON MEDIAN WITH NO PAVING OR HARD SURFACE
SCALE 1:150



CROSS CUT WITH NO WALKWAY
SCALE 1:150



CROSS CUT WITH PAVED WALKWAY
SCALE 1:150



CROSS CUT DESIGN ON EXISTING ROAD LANE AND PAVED SIDEWALK
SCALE 1:150

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6. ALL BENCHMARKS TO BE CONFIRMED ON SITE.

REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
B1	2021-02-02	ISSUED FOR PRELIM DESIGN	
E1	2021-05-28	ISSUED FOR DETAIL DESIGN	
F1	2022-06-03	ISSUED FOR TENDER	

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PROJECT DESCRIPTION

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

ROADS & TRANSPORT

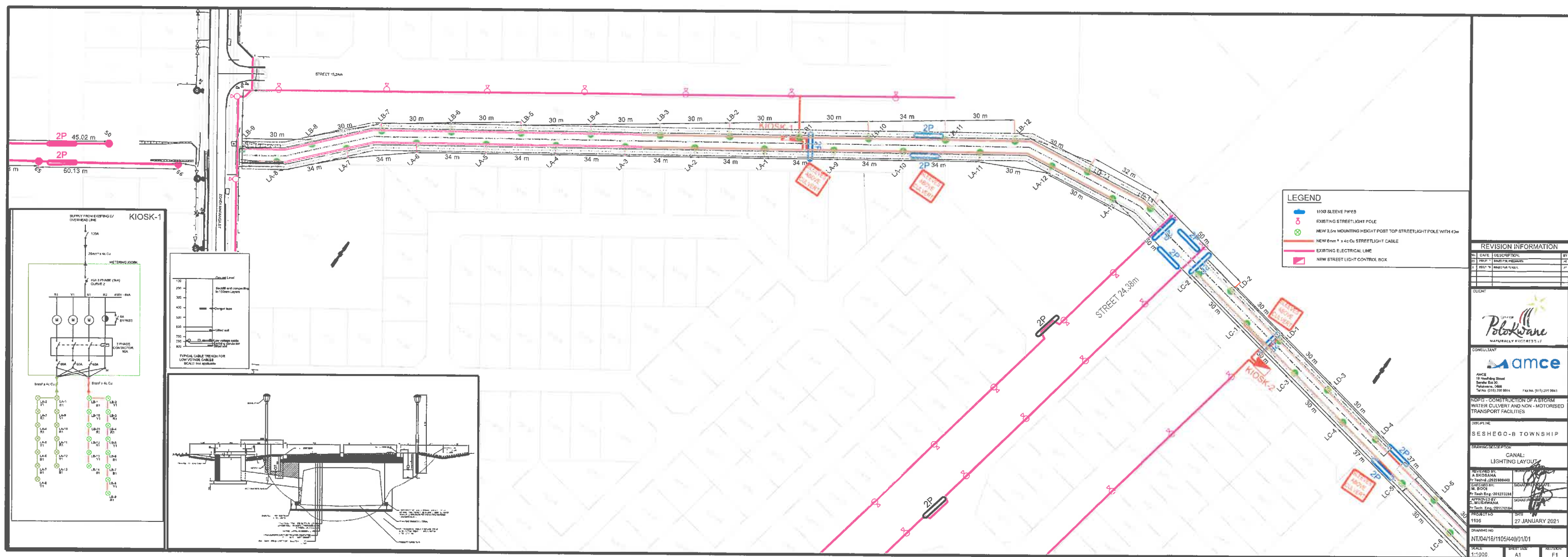
DRAWING DESCRIPTION

TYPICAL CROSS CUT
DETAILS

DESIGNED BY: K. MANGXABA Pr Tech. Eng.:201670155	SIGNATURE AND DATE:  08 JUNE 2022
DRAWN BY: T.v/d WESTHUIZEN	SIGNATURE AND DATE:  08 JUNE 2022
APPROVED BY: M. GWABA Pr Eng.:20140479	SIGNATURE AND DATE:  08 JUNE 2022
PROJECT NO 1105	DATE 08 JUNE 2022
DRAWING NO	

NT05-20-1105-520-4

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	F1



REVISION INFORMATION

DATE	DESCRIPTION	BY
2014-11-01	PAID FOR PRESENTS	AC
2014-11-01	PAID FOR PRESENTS	AC

CLIENT _____



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19 Nuchling Street
Barrister East 30,
Palakavenna, 56006
Tel No (015) 295 9914 Fax No (015) 291 9941

SESHEGO-B TOWNSHIP

DRAWING DESCRIPTION

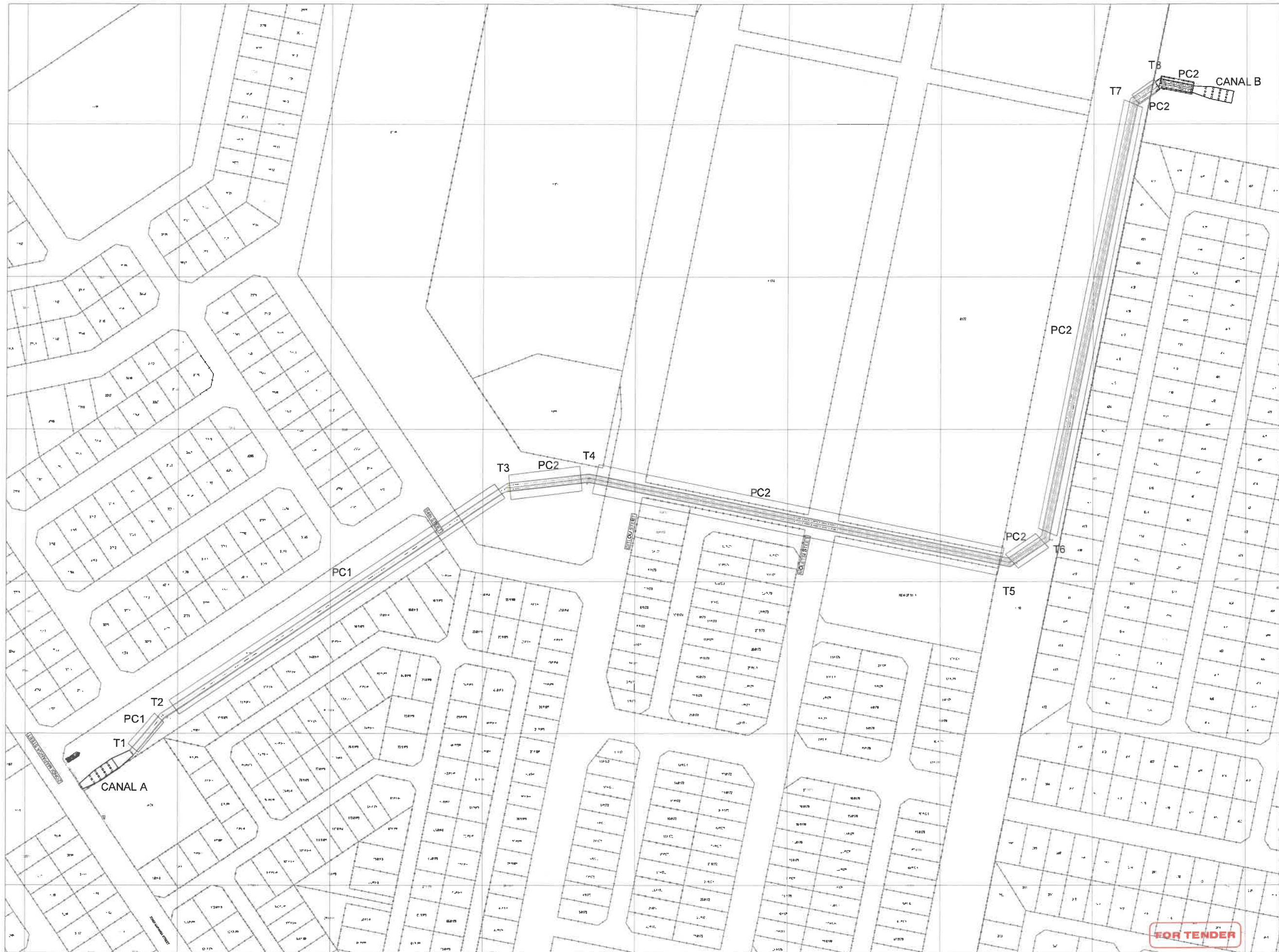
CANAL:
LIGHTING LAYOUT

REVIEWED BY: SKOSANA	DATE: 20200604
TECHNICAL: 20200604	REVISION: 001

DESIGNED BY: L BOOI Tech Eng.-201270280	SIGNATURE: _____ DATE: _____
APPROVED BY: MUSHWANA Tech. Eng.-086320000	SIGNATURE: _____ DATE: _____

PROJECT NO	DATE
105	27 JANUARY 2021

DATE	SHEET SIZE	REVISION
10/04/16	1105/440	01/01



- GENERAL NOTES:**
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REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
D1	2021-02-05	ISSUED FOR PRELIM DESIGN	SL
E1	2021-05-21	ISSUED FOR DETAILED DESIGN	SL
TD	2022-06-08	ISSUED FOR TENDER	NMA

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Tel No. (015) 295 9914 Fax No. (015) 295 9941

PROJECT DESCRIPTION
**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

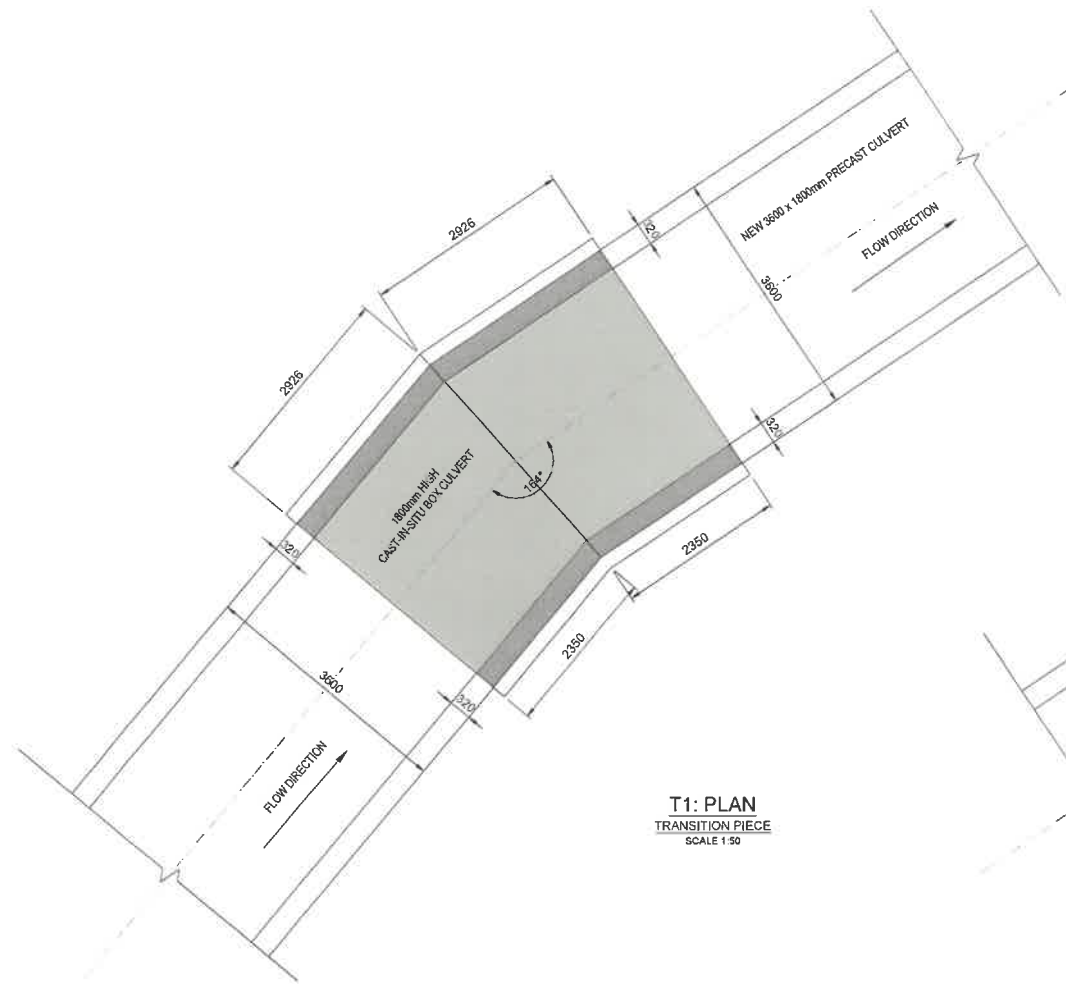
DISCIPLINE
STRUCTURAL ENGINEERING

DRAWING DESCRIPTION
**GENERAL ARRANGEMENT
SHOWING CANAL ROUTE**

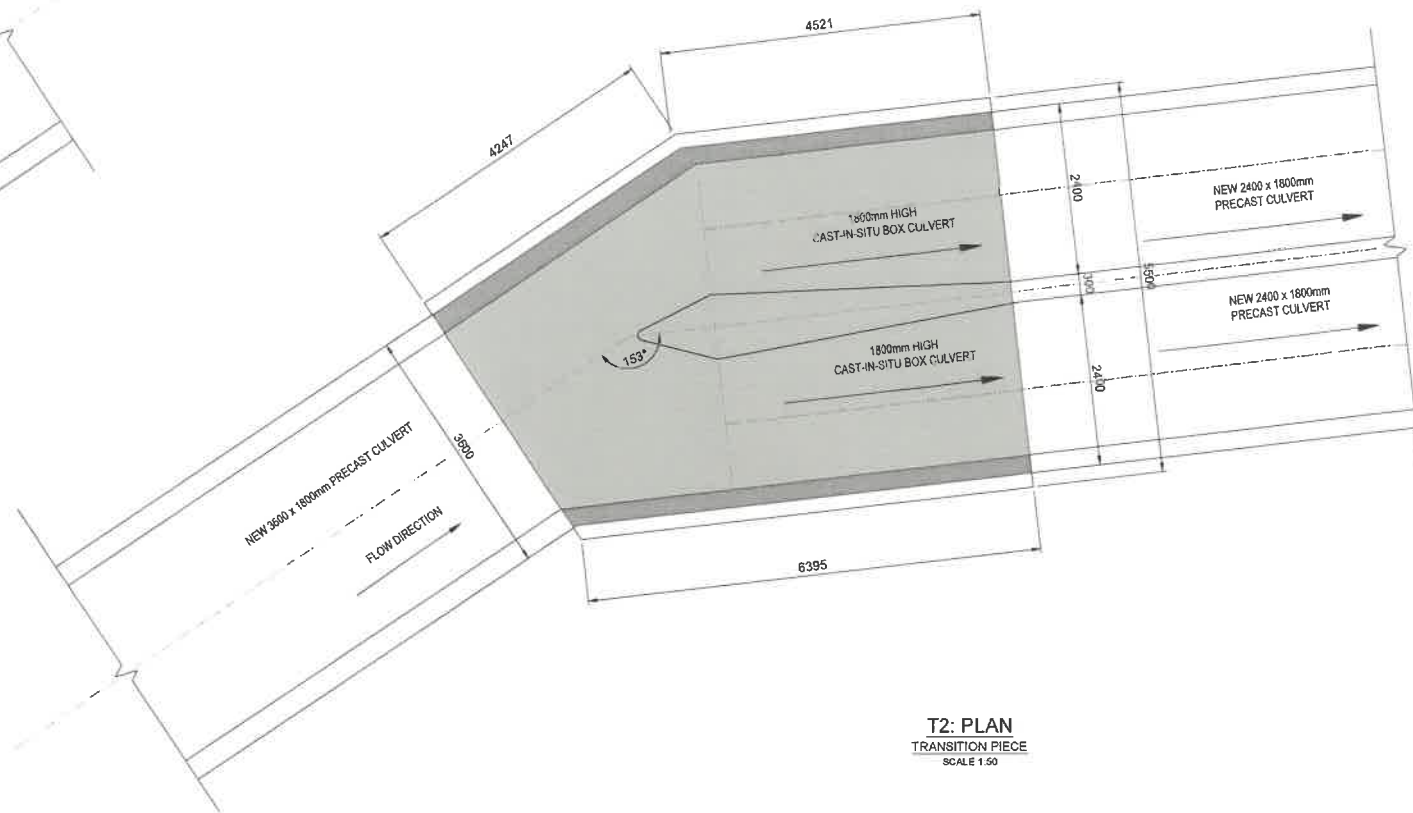
DESIGNED BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
DRAWN BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
APPROVED BY: P. Phulwane Pr Tech Eng.:201470132	SIGNATURE AND DATE:  08 June 2022
PROJECT NO 1105	DATE 08 June 2022

DRAWING NO
NT05-20-1105-600-1

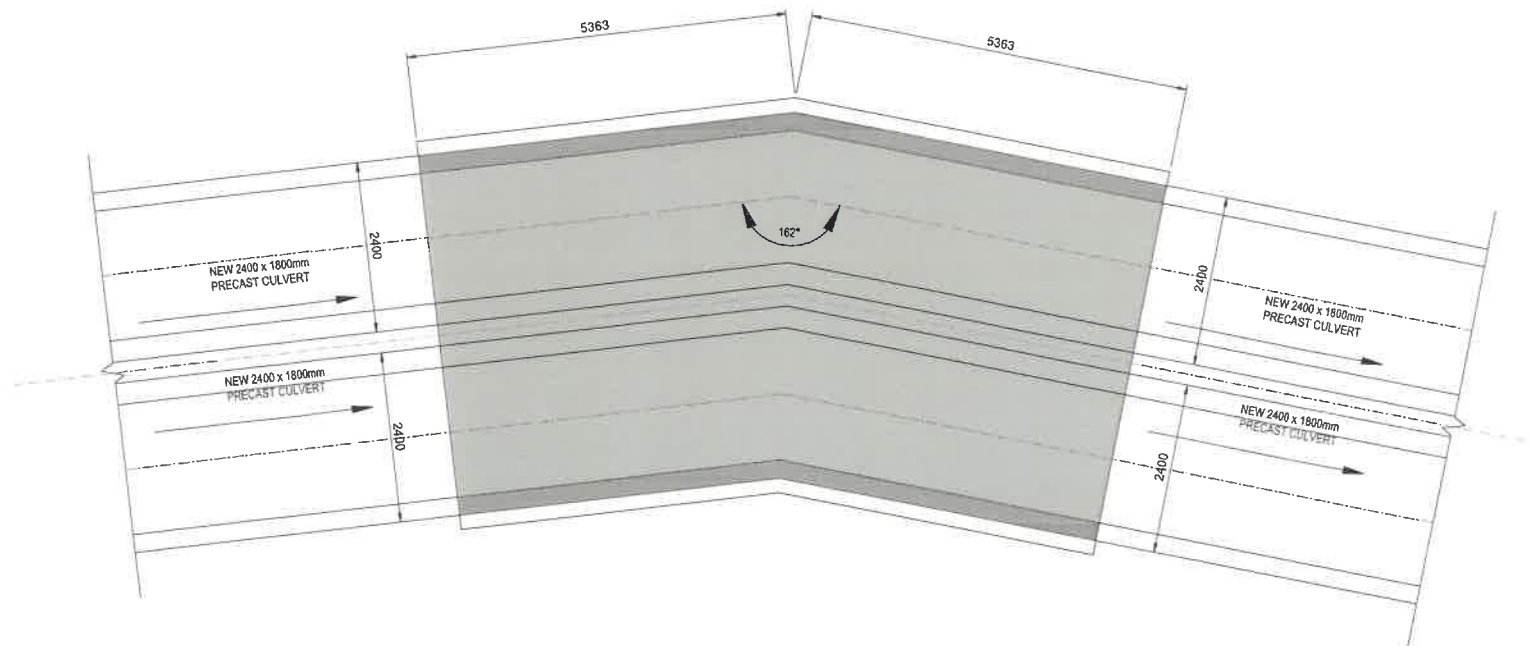
SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	TD



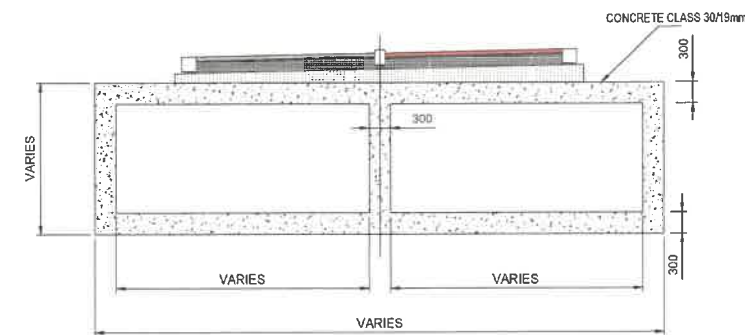
T1: PLAN
TRANSITION PIECE
SCALE 1:50



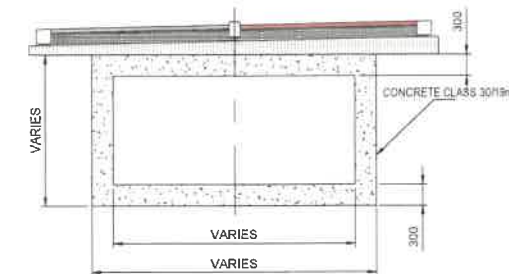
T2: PLAN
TRANSITION PIECE
SCALE 1:50



TYPICAL PLAN FOR T3,T4,T5,T6,T7,T8
TRANSITION PIECE
SCALE 1:50



TYPICAL SECTION : CAST-IN-SITU BOX CULVERT
FOR TRANSITION PIECE T3 T4 T5 T6 T7 T8
SCALE 1:50



TYPICAL SECTION : CAST-IN-SITU BOX CULVERT
FOR TRANSITION PIECE T1
SCALE 1:50

FOR TENDER

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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
D1	2021-02-05	ISSUED FOR PRELIM DESIGN	SL
E1	2021-05-31	ISSUED FOR DETAILED DESIGN	SL
TD	2022-06-08	ISSUED FOR TENDER	MM

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19 Neethling Street
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PROJECT DESCRIPTION

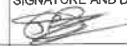
**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

DISCIPLINE

STRUCTURAL ENGINEERING

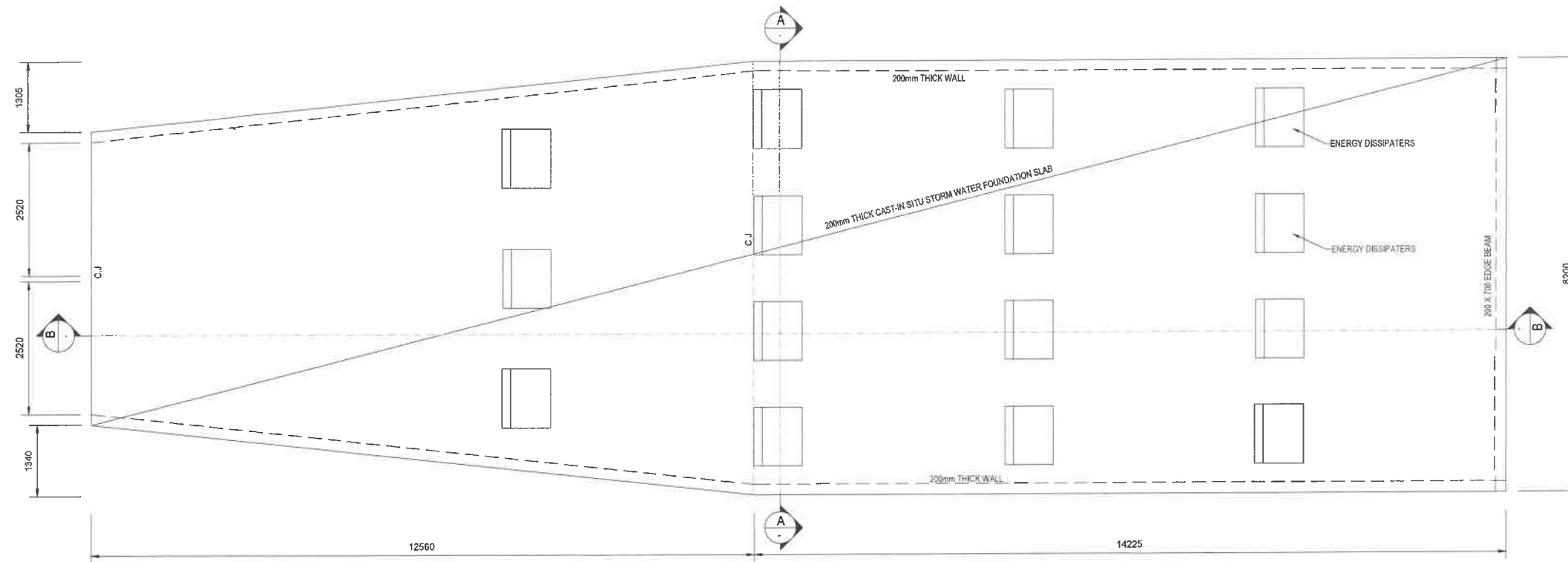
DRAWING DESCRIPTION

**TRANSITIONS PIECES FOR
STORMWATER CULVERT**

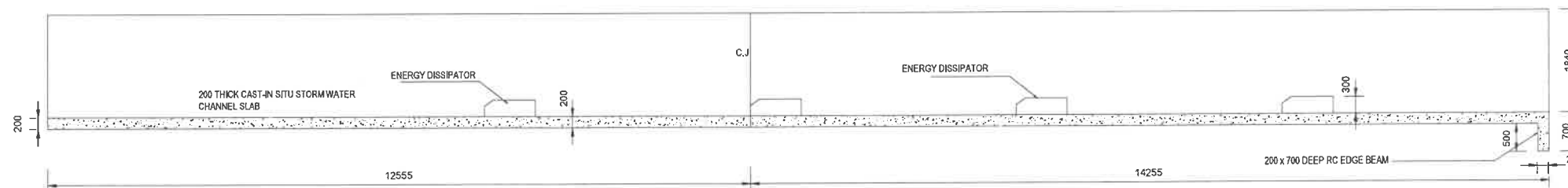
DESIGNED BY M.Mofokeng	SIGNATURE AND DATE  08 June 2022
DRAWN BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
APPROVED BY: P. Phulwane Pr Tech Eng.:201470132	SIGNATURE AND DATE:  08 June 2022
PROJECT NO 1105	DATE 08 June 2022

DRAWING NO
NT05-20-1105-600-3

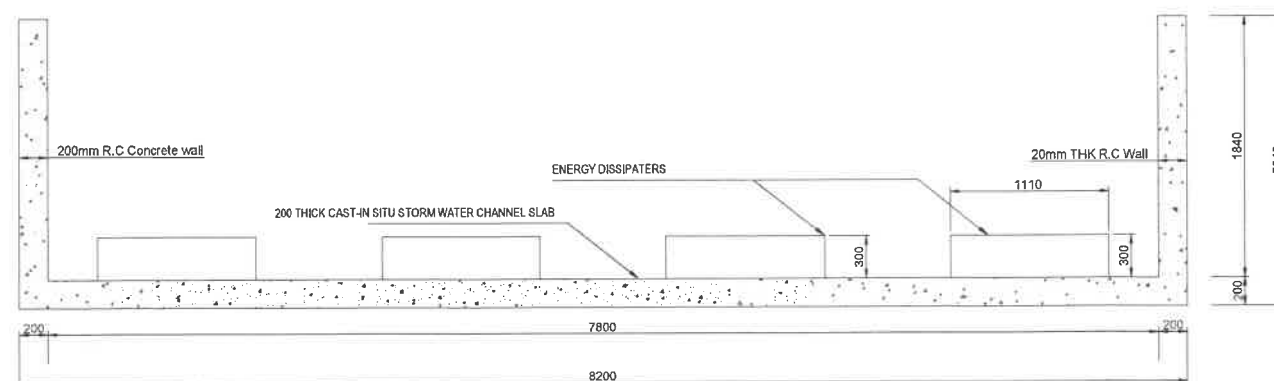
SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	TD



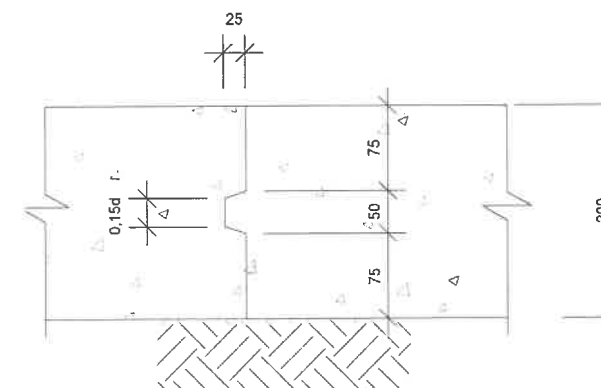
FOUNDATION PLAN (CANAL B)
SCALE 1: 50



SECTION B-B
SCALE 1: 50



SECTION A-A
SCALE 1: 25



TYPICAL CONSTRUCTION JOINT
SCALE 1:5

FOR TENDER

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REVISION INFORMATION

No:	DATE	DESCRIPTION:	BY
D1	2021-02-05	ISSUED FOR PRELIM DESIGN	SL
E1	2021-05-31	ISSUED FOR DETAILED DESIGN	SL
TD	2022-08-08	ISSUED FOR TENDER	NM

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PROJECT DESCRIPTION

SESHEGO NDPG:
STORMWATER CANAL
PHASE 2

DISCIPLINE

STRUCTURAL ENGINEERING

DRAWING DESCRIPTION

OUTFALL CANAL CONCRETE
DETAILS

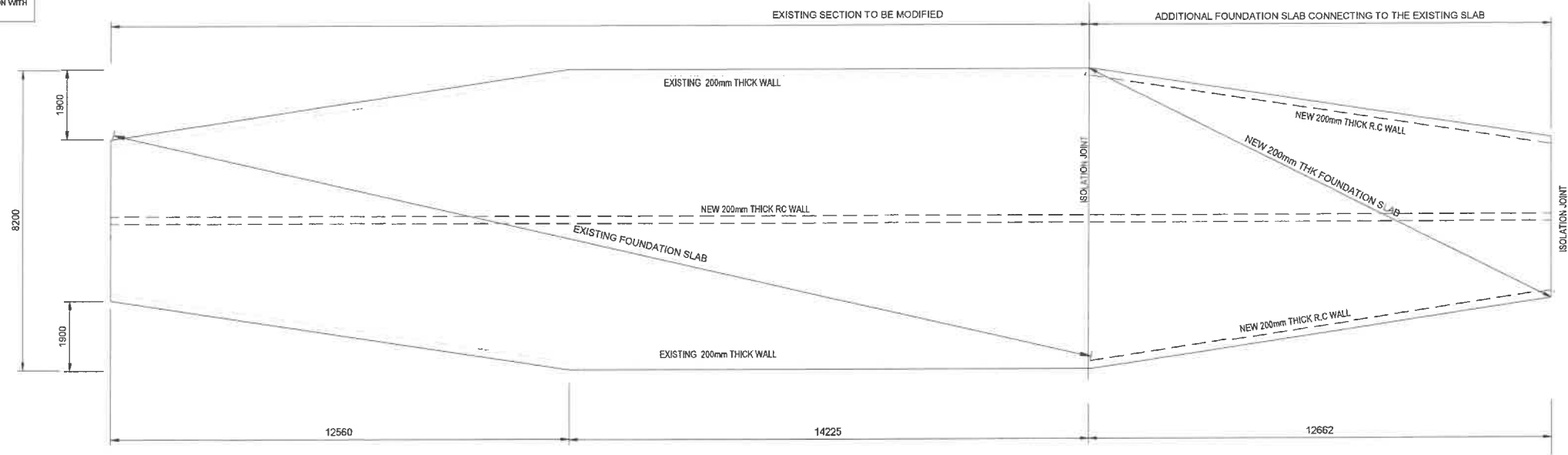
DESIGNED BY: M.Mofokeng	SIGNATURE AND DATE: 08 June 2022
DRAWN BY: M.Mofokeng	SIGNATURE AND DATE: 08 June 2022
APPROVED BY: P. Phulwane Pr Tech Eng.:201470132	SIGNATURE AND DATE: 08 June 2022
PROJECT NO 1105	DATE 08 June 2022

DRAWING NO

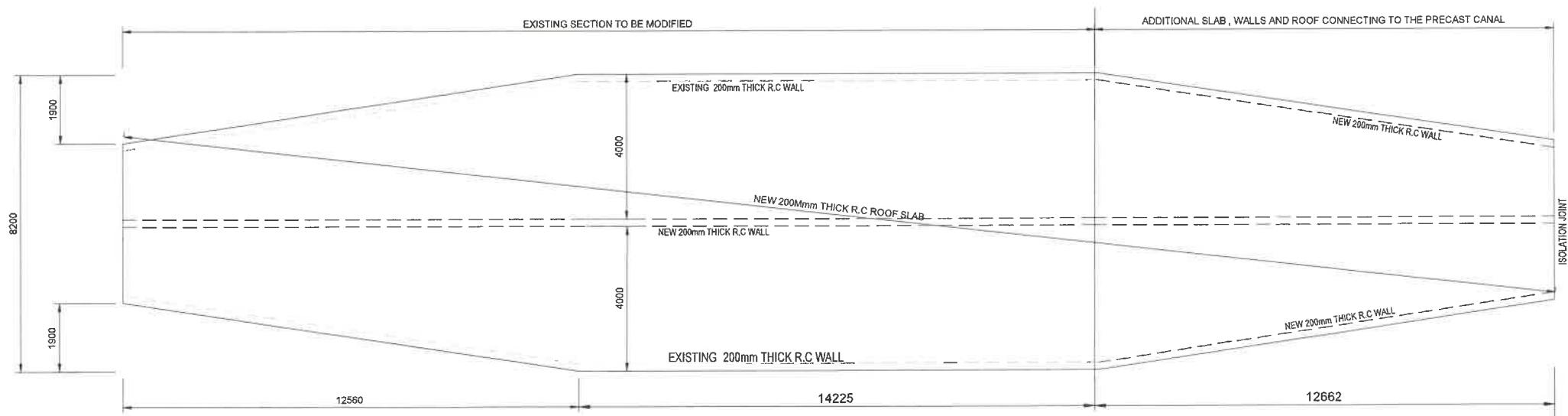
NT05-20-1105-600-4

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	TD

NOTE
THIS DRAWING IS READ IN CONJUNCTION WITH
DRAWING: NT05-20-1105-600-2



FOUNDATION LAYOUT (CANAL A)
SCALE 1:75



ROOF SLAB LAYOUT (CANAL A)
SCALE 1:75

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REVISION INFORMATION

No.	DATE	DESCRIPTION:	BY
D1	2021-03-08	ISSUED FOR PRELIM DESIGN	SL
E1	2021-05-31	ISSUED FOR DETAILED DESIGN	SL
TD	2022-06-08	ISSUED FOR TENDER	MM

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Bendor Ext 30,
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PROJECT DESCRIPTION

**SESHEGO NDPG:
STORMWATER CANAL
PHASE 2**

DISCIPLINE

STRUCTURAL ENGINEERING

DRAWING DESCRIPTION

**CANAL A
CONCRETE LAYOUT**

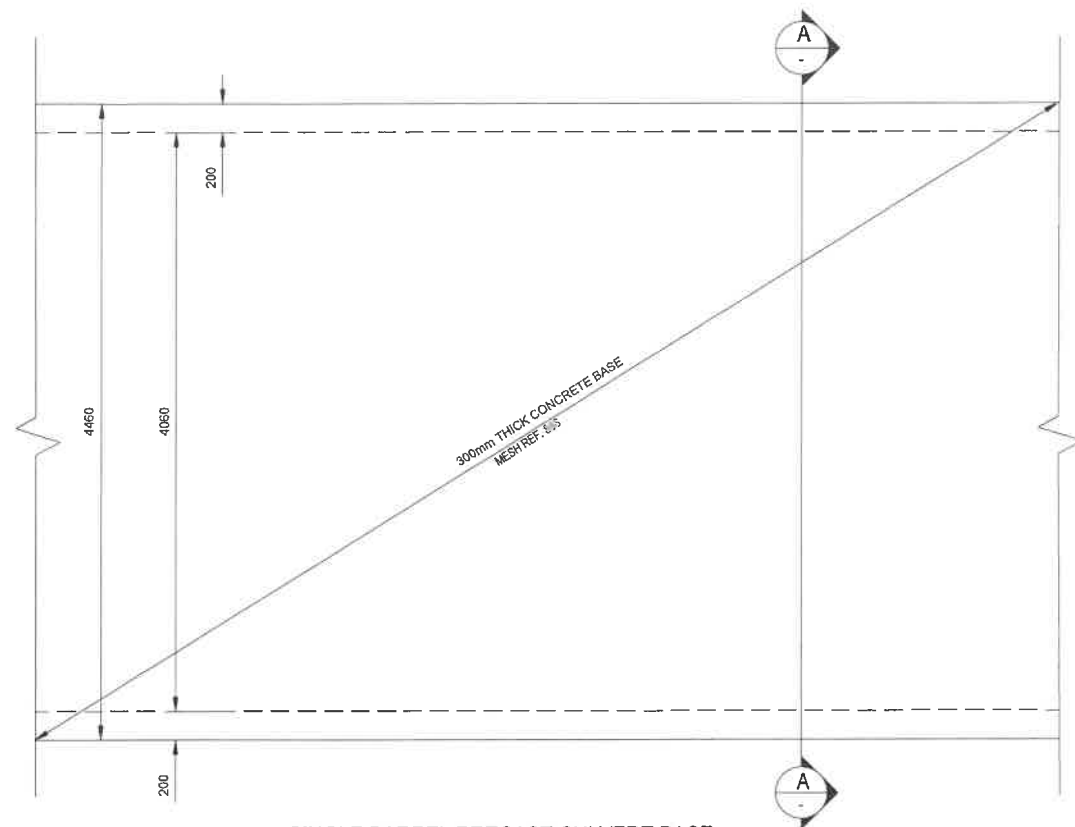
DESIGNED BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
DRAWN BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
APPROVED BY: P. Phulwane Pr Tech Eng.:201470132	SIGNATURE AND DATE:  08 June 2022
PROJECT NO 1105	DATE 08 June 2022

DRAWING NO

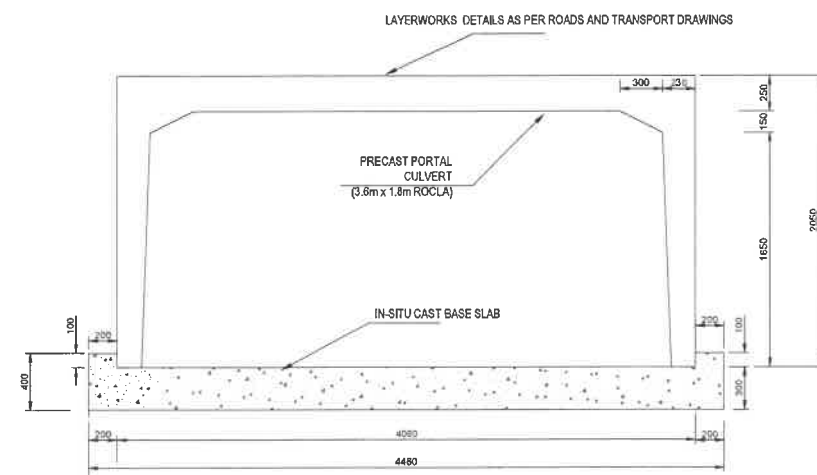
NT05-20-1105-600-5

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	TD

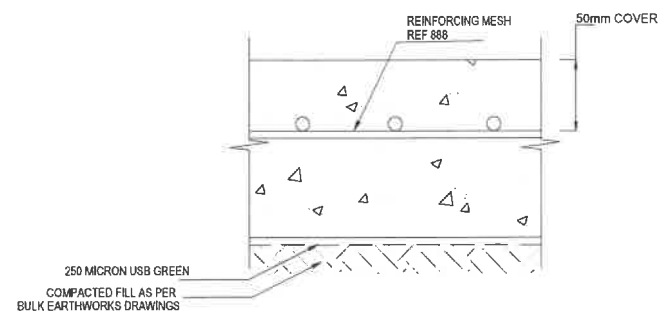
FOR TENDER



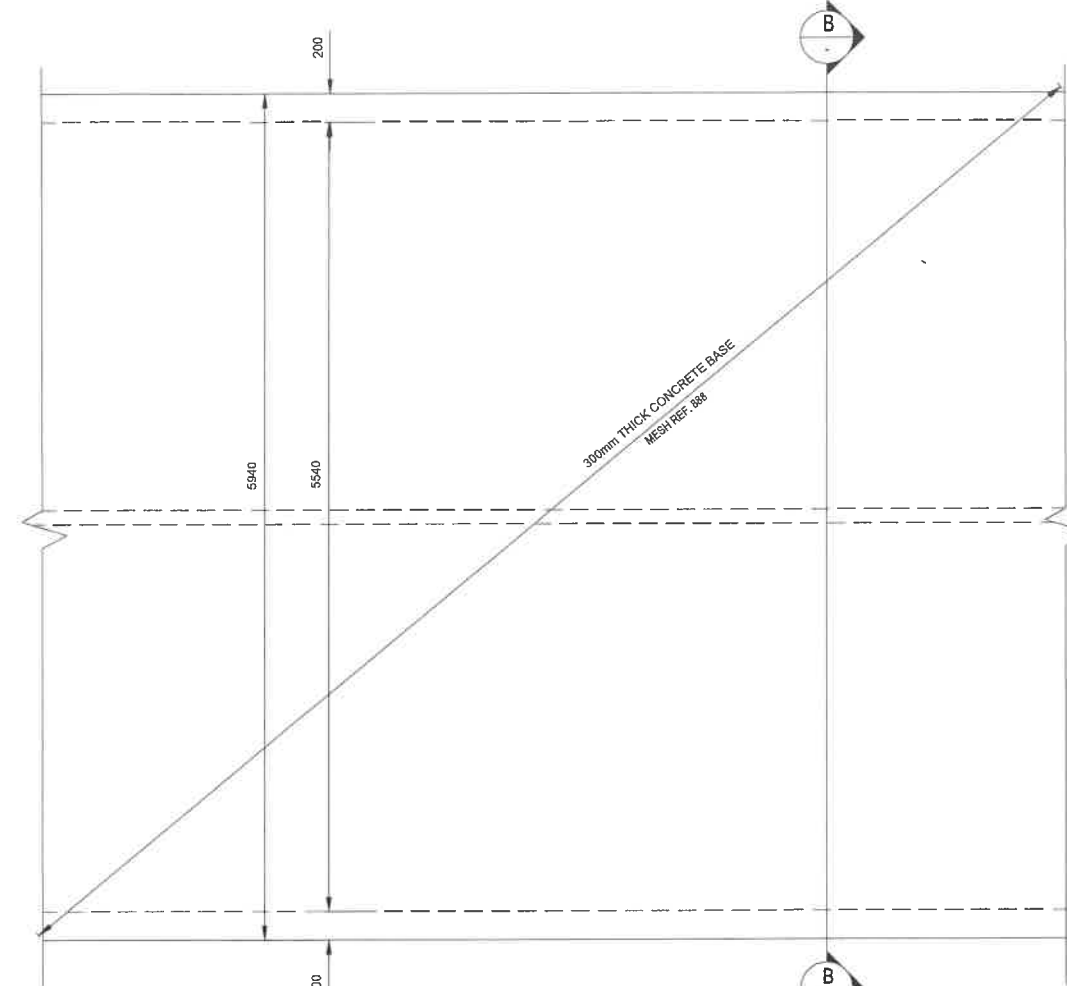
SINGLE BARREL PRECAST CULVERT BASE
BASE A - 3.6m x 1.8m PRECAST CULVERT
 SCALE 1: 25



SINGLE BARREL PRECAST CULVERT
SECTION A-A
 SCALE 1: 25

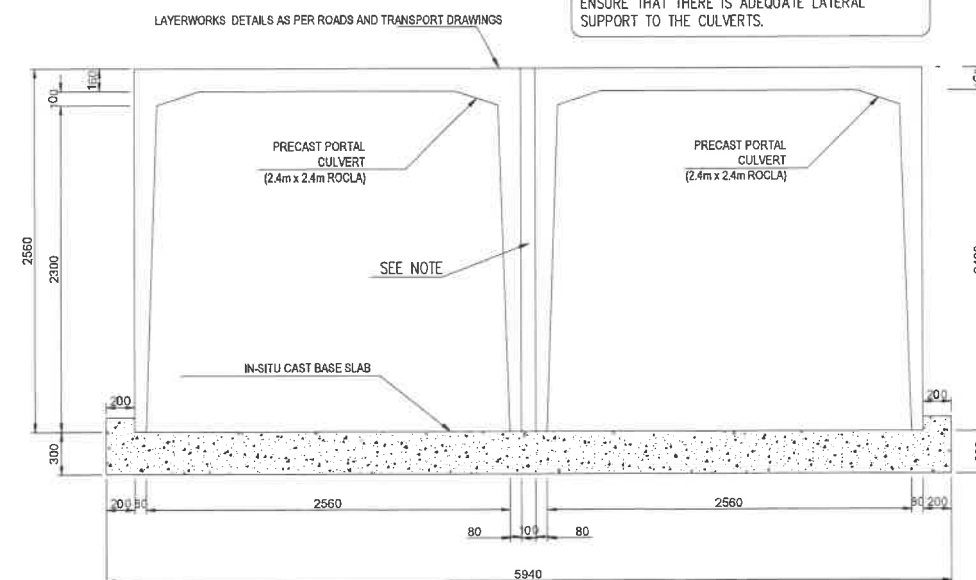


CONCRETE BASE DETAIL
 SCALE 1: 10



DOUBLE BARREL PRECAST CULVERT BASE
BASE B - 2.4m x 2.4m PRECAST CULVERT
 SCALE 1: 25

NOTE 1:
 THE PARALLEL BARRELS OF CULVERTS ARE PLACED WITH A SPACE OF ABOUT 100 MM BETWEEN THEM. THIS IS BACKFILLED WITH 5% SOILCRETE OR LEAN MIX CONCRETE TO ENSURE THAT THERE IS ADEQUATE LATERAL SUPPORT TO THE CULVERTS.



DOUBLE BARREL PRECAST CULVERT
SECTION B-B
 SCALE 1: 25

FOR TENDER

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REVISION INFORMATION

No.	DATE	DESCRIPTION	BY
D1	2021-02-06	ISSUED FOR PRELIM DESIGN	SL
E1	2021-05-31	ISSUED FOR DETAILED DESIGN	SL
TD	2022-09-08	ISSUED FOR TENDER	NM

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PROJECT DESCRIPTION

**SESHEGO NDPG:
 STORMWATER CANAL
 PHASE 2**

DISCIPLINE

STRUCTURAL ENGINEERING

DRAWING DESCRIPTION

**PRECAST CULVERT CONCRETE
 BASE DETAILS**

DESIGNED BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
DRAWN BY: M.Mofokeng	SIGNATURE AND DATE:  08 June 2022
APPROVED BY: P. Phulwane Pr Tech Eng.:201470132	SIGNATURE AND DATE:  08 June 2022
PROJECT NO 1105	DATE 08 June 2022

DRAWING NO

NT05-20-1105-600-6

SCALE	SHEET SIZE	REVISION
AS SHOWN	A1	TD