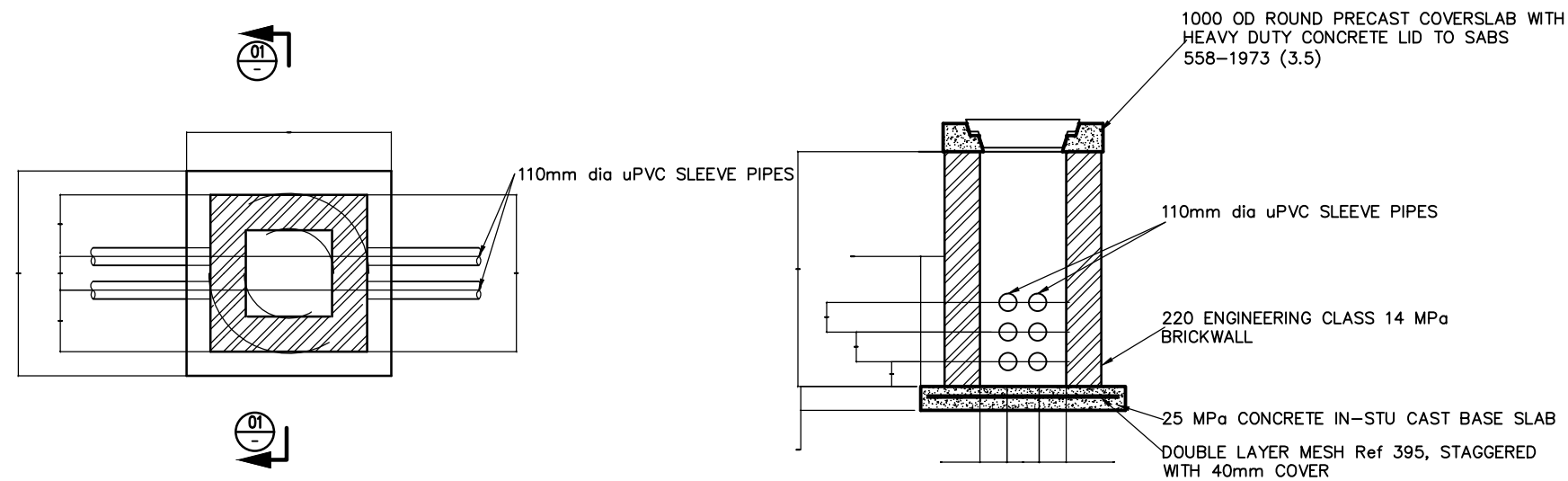
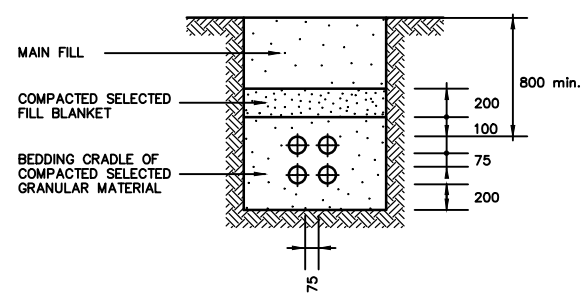


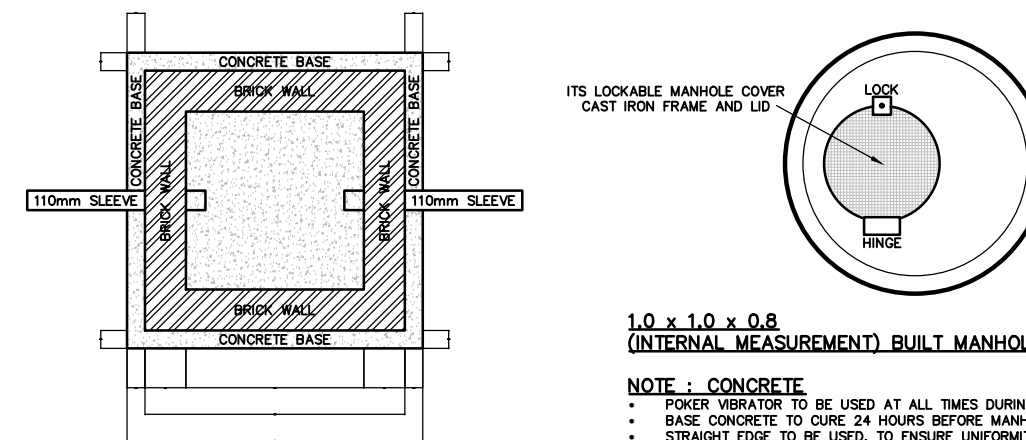


PLAN ON CABLE MANHOLE
SCALE : 1:20

SECTION 01-01
SCALE : 1:20



SLEEVE DETAIL
CLASS 'B' BEDDING (FLEXIBLE PIPES).
SCALE 1:50



1.0 x 1.0 x 0.8 (INTERNAL MEASUREMENT) BUILT MANHOLE

NOTE : CONCRETE

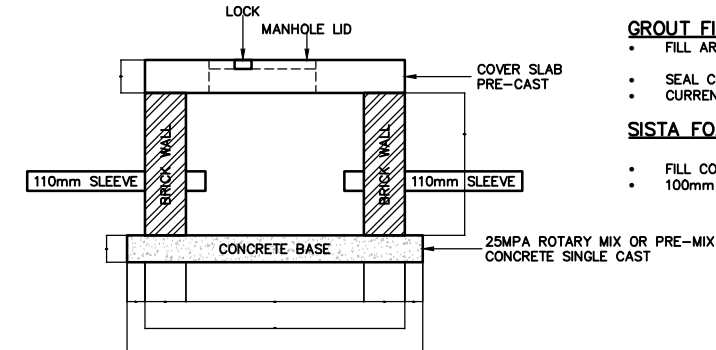
- POKER VIBRATOR TO BE USED AT ALL TIMES DURING POURING CONCRETE.
- BASE CONCRETE TO CURE 24 HOURS BEFORE MANHOLE TOP CAN BE PLACED
- STRAIGHT EDGE TO BE USED, TO ENSURE UNIFORMITY.
- MANHOLE TO BE CLEANED AFTER COMPLETION.
- MANHOLE TO BE BUILT WITH FACE BRICKS.

GROUT FILL

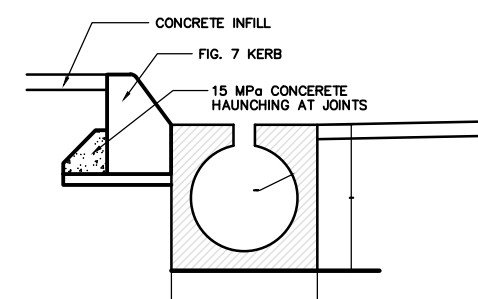
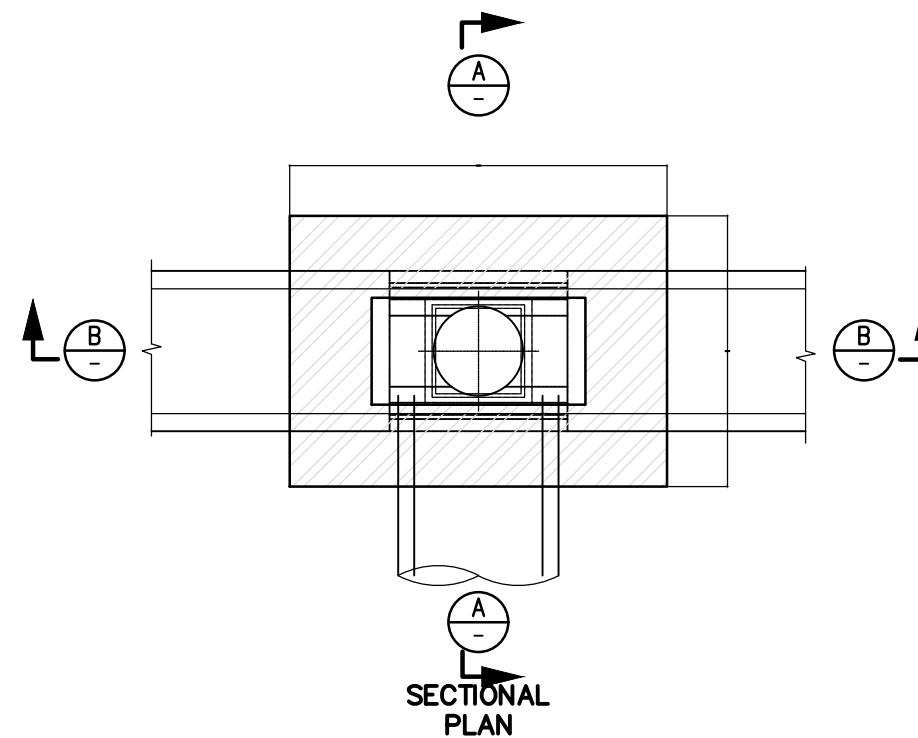
- FILL AROUND CONDUIT, AND TRIM.
- SEAL COVER SLAB TO CHAMBER.
- CURRENT BASED QUARRY GROUT WITH BONDING LIQUID, NOT WATER

SISTA FOAM PU

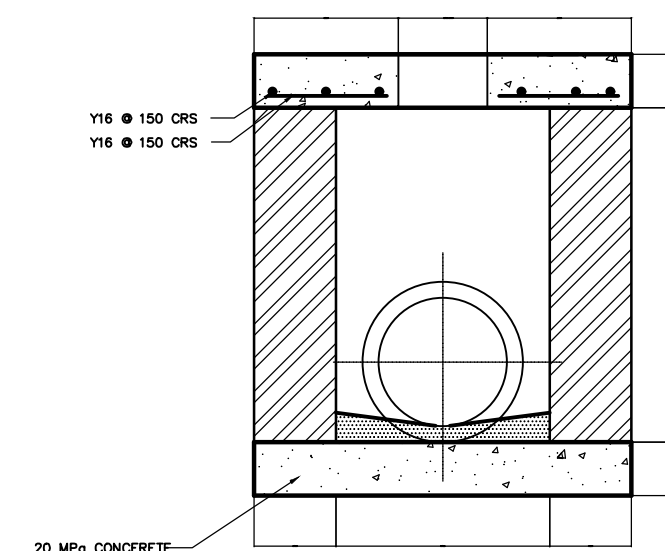
- FILL CONDUIT AROUND INNER-DUCT 100mm DEEP, AND TRIM
- 100mm DEEP



ITS SLEEVE MANHOLE
SCALE : 1:20



SECTION A-A SLOTTED DRAIN ON LEES STREET
SCALE 1:10



SECTION B-B

NOTES AND SPECIFICATIONS

GENERAL

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- THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
- FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FILE
1.	2022-05-27	CW	ISSUED FOR APPROVAL	
2.	2022-05-27	CW	ISSUED FOR TENDER	

DESIGNED BY	JJ	DRAWN BY	JJ
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
APPROVED BY		APPROVED BY	

PROJECT STATUS	
DESIGNED	ISSUED FOR APPROVAL
ISSUED FOR TENDER	ISSUED FOR CONSTRUCTION

PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CITY OF TSHWANE)
INITIALS AND SURNAME	SIGNATURE AND P. NO.
DATE	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Mr. Imvula Tshwene
REGIONAL HEAD - RPTN DIVISION

Mr. P. L. Letlamoane
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

P.O. BOX 1409
PRETORIA 0001

DRIVING APPROVED BY DIVISIONAL HEAD
Mr. Imvula Tshwene

SIGNATURE: DATE:

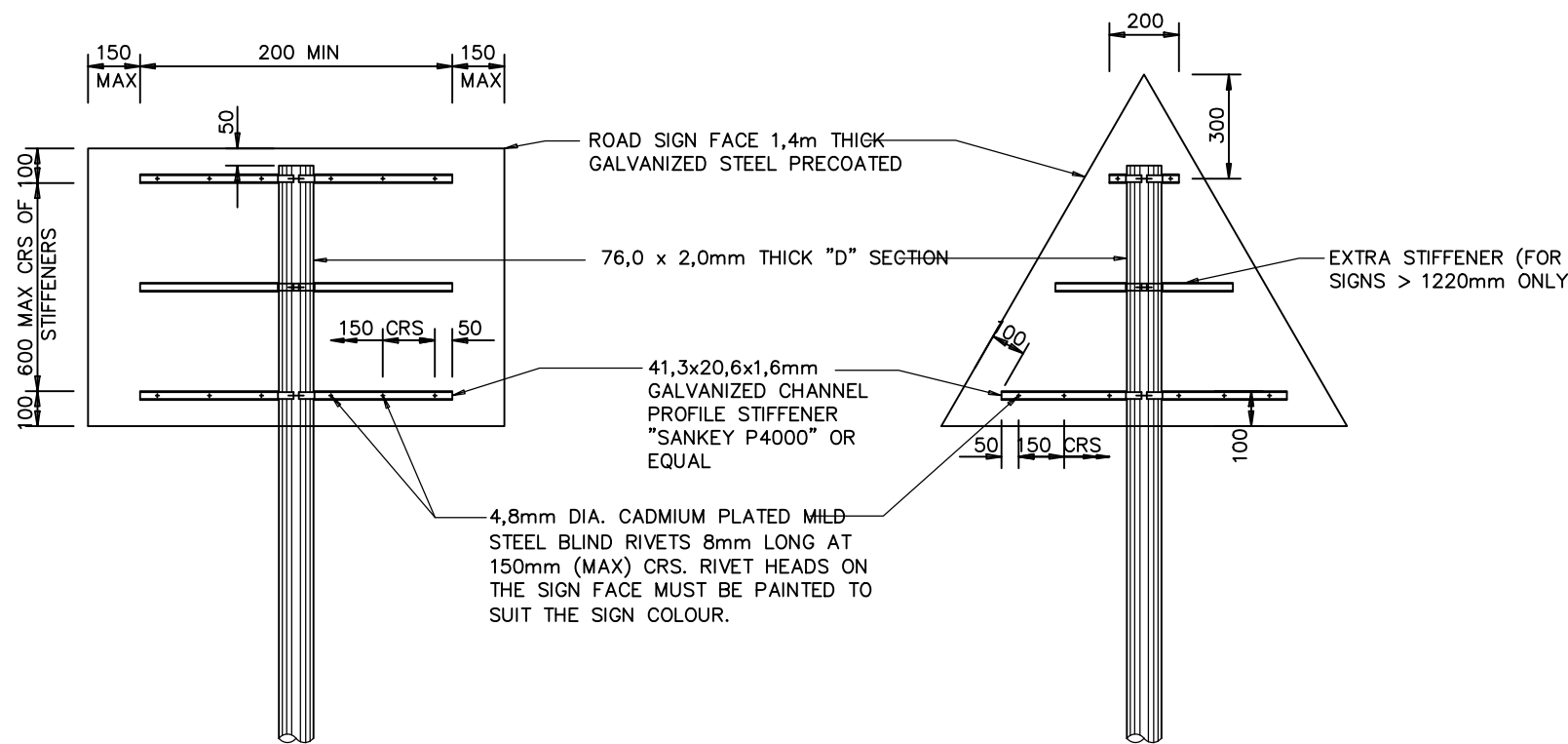
DESCRIPTION OF PROJECT

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING

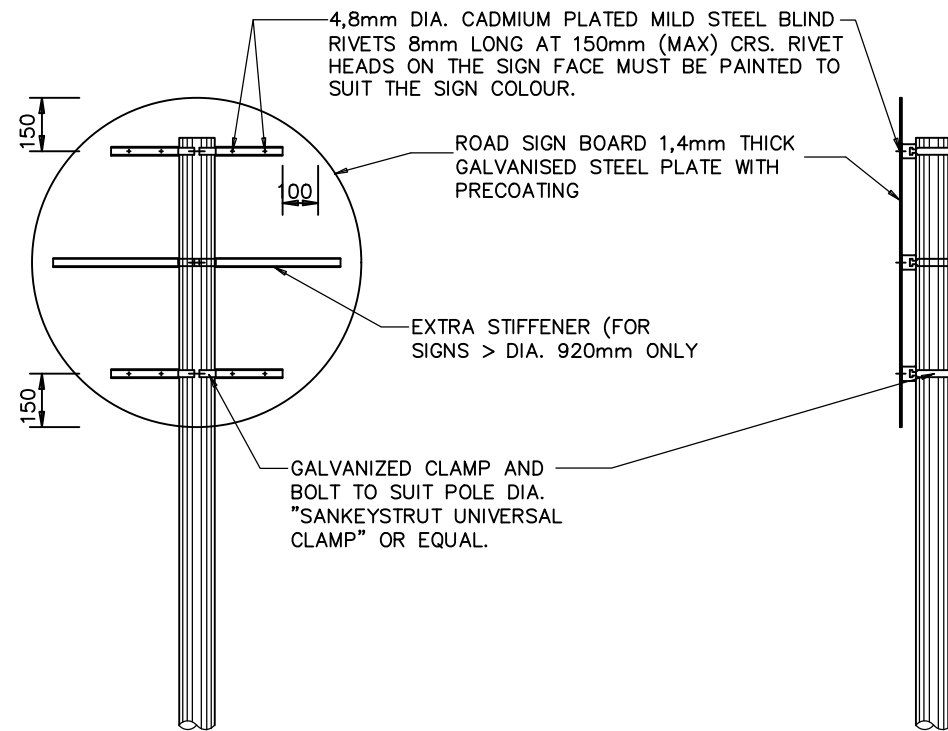
**LYNNWOOD ROAD - WP2
TYPICAL STANDARD DETAILS
FOR STORMWATER**

CONTRACT No. 1	PROJECT No. 1
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/01/SD/001	SHEET NO. 1
	ORIGINAL PAPER SIZE: A0



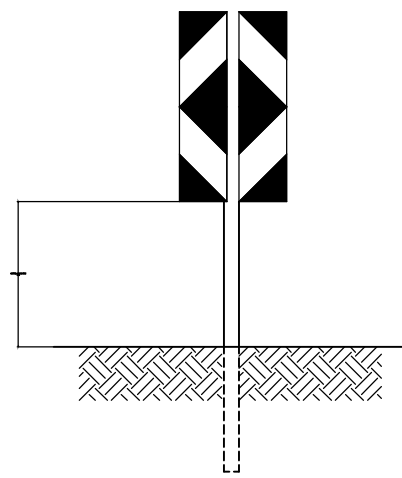
REAR ELEVATION

REAR ELEVATION

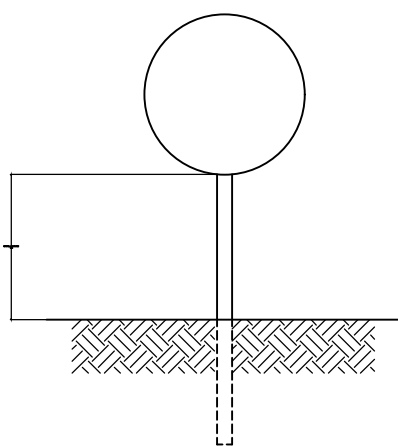


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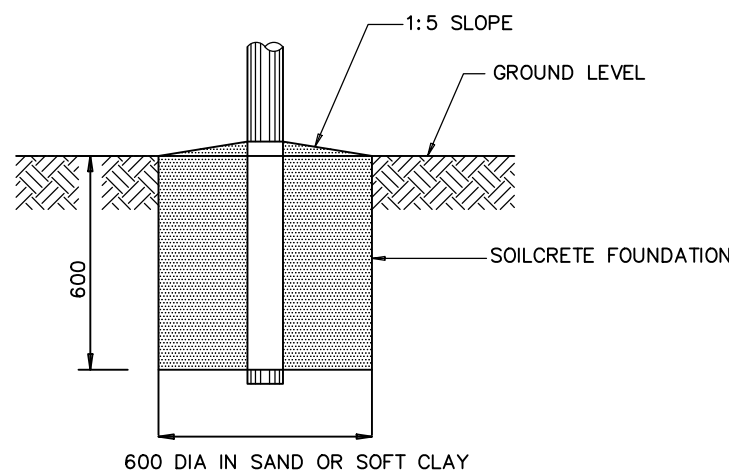
TYPICAL SIDE ELEVATION



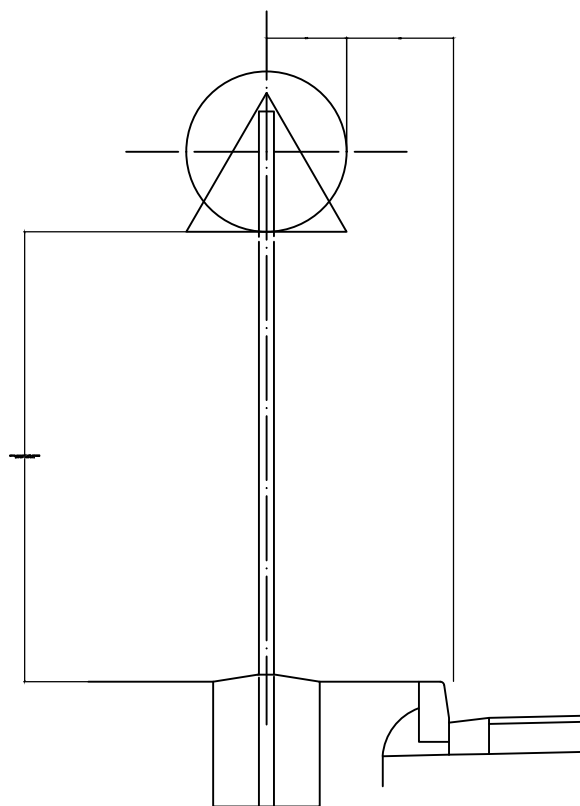
W413 SIGN PLACEMENT
N.T.S.



R103, R104 & R213 SIGN PLACEMENT
N.T.S.



TYPICAL
FOUNDATION



SIGN PLACEMENT
N.T.S.

NOTES:

1. DETAILS ON THIS DRAWING ARE APPLICABLE TO ROAD SIGNS SMALLER THAN 1,5m REQUIRING A SINGLE SUPPORT.
2. MANUFACTURING, TRANSPORTATION, ERECTION AND MAINTENANCE OF ROAD SIGNS SHALL CONFORM TO RELEVANT CLAUSES OF SECTION 5600 OF COLTO STANDARD SPECIFICATIONS.
3. MANUFACTURE'S IDENTIFICATION CODE (MANUFACTURE'S NAME, MONTH AND YEAR OF SIGN'S MANUFACTURING) SHALL BE DISPLAYED ON THE REVERSE (LOWER CORNER NEAREST TO ROAD SURFACE) OF COMPLETED SIGN BOARD, THE LETTERS SHALL BE PAINTED IN WHITE AND THEY SHALL NOT BE LARGER THAN 50mm IN HEIGHT.
3. STRUCTURAL STEEL SECTIONS SHALL BE OF MILD STEEL CONFORMING TO THE REQUIREMENTS OF SECTION 6700 OF COLTO STANDARD SPECIFICATIONS.
4. BOLTS, WASHERS AND NUTS SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 5602(b) OF COLTO STANDARD SPECIFICATIONS.
5. BLIND RIVETS SHALL BE 4,8mm DIA CADMIUM PLATED MILD STEEL.
6. SOILCRETE FOUNDATIONS SHALL CONSIST OF 12 PARTS APPROVED GRANULAR SOIL OR GRAVEL MIXED WITH 1 PART PORTLAND CEMENT AND ONLY SUFFICIENT WATER TO GIVE IT A CONSISTENCY THAT WILL PERMIT THE SOILCRETE TO BE TAMPED TO EXCLUDE VOIDS. THE SURFACE OF THE SOILCRETE SHALL BE NEATLY FINISHED AS INDICATED.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 16463/00/04/406/(001-005)

NOTES AND SPECIFICATIONS				
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10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.				

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FILE
1.	2022-05-27	CW	ISSUED FOR APPROVAL	
2.	2022-05-27	CW	ISSUED FOR TENDER	

DESIGNED		DRAWN	
AI		AI	

DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
CW			

PROJECT STATUS	
PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CITY OF TSHWANE)

INITIALS AND SIGNATURE		SIGNATURE AND P. NO.		DATE	

INITIALS AND SIGNATURE		SIGNATURE AND P. NO.		DATE	

BAHLAPHING CONSULTING	
306 Lois Avenue Newlands, Menlyn, Pretoria, 0181 t: (012) 348 3038 e: info@bahlaphing.com www.bahlaphing.com	

CITY OF TSHWANE	
ROADS AND TRANSPORT DEPARTMENT	
Mr. Imvula Tshenye DEPUTY HEAD - BRTN DIVISION P.O. BOX 1409 PRETORIA 0001	Mr. P. L. Letsohane EXECUTIVE DIRECTOR P.O. BOX 1409 PRETORIA 0001

SIGNATURE OF PROJECT	

DESCRIPTION OF DRAWING	
BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	

CONTRACT No. 1	
PROJECT No. 1	

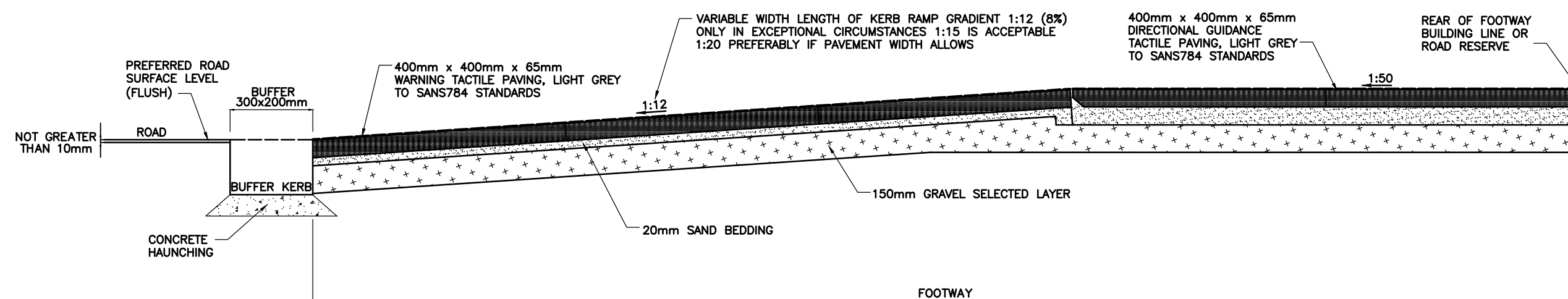
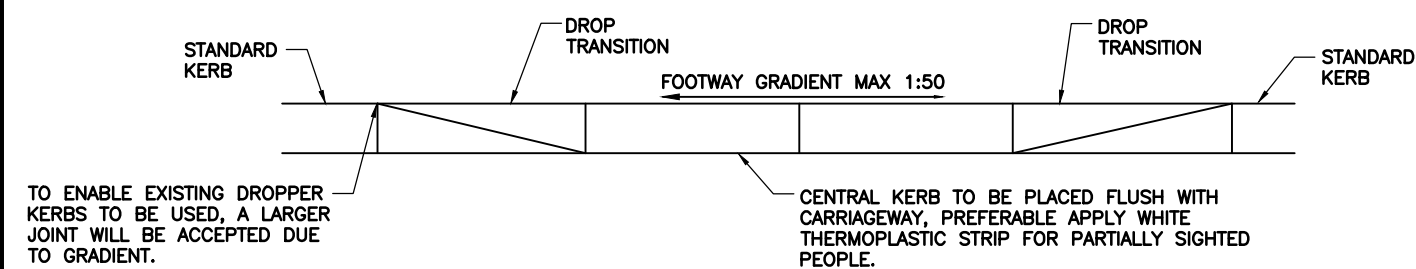
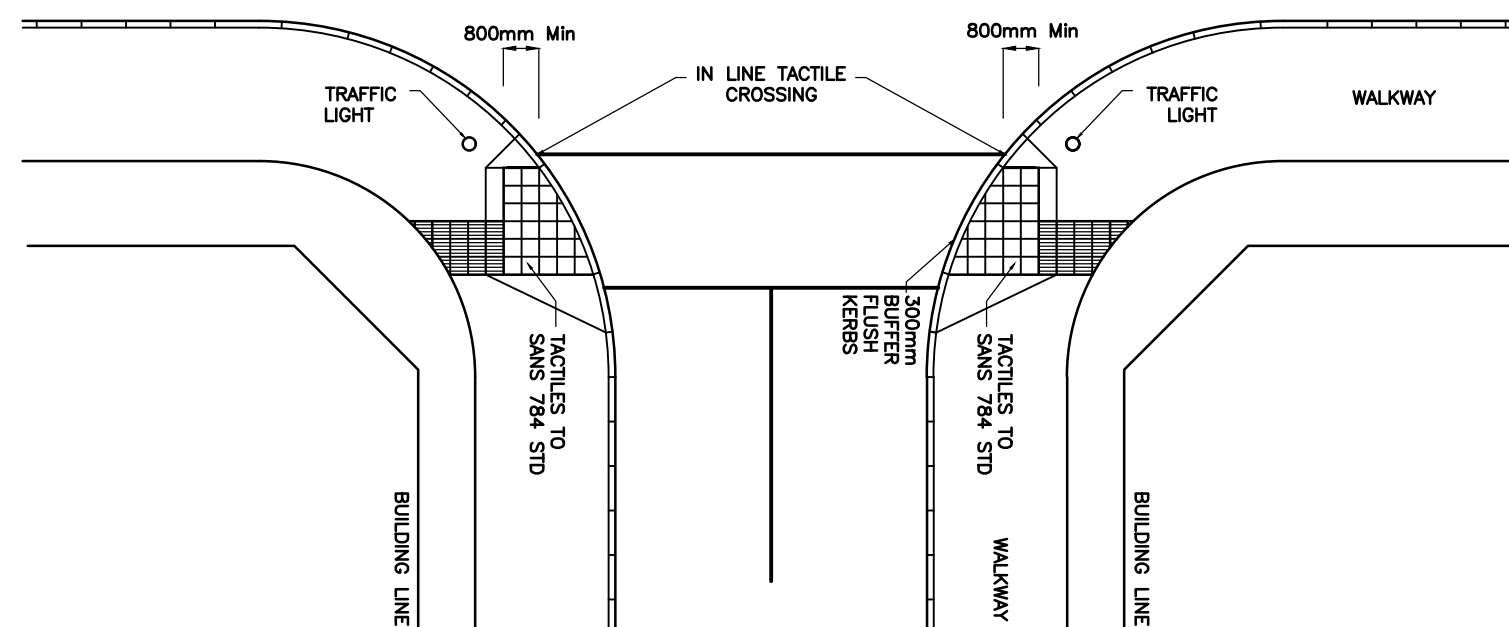
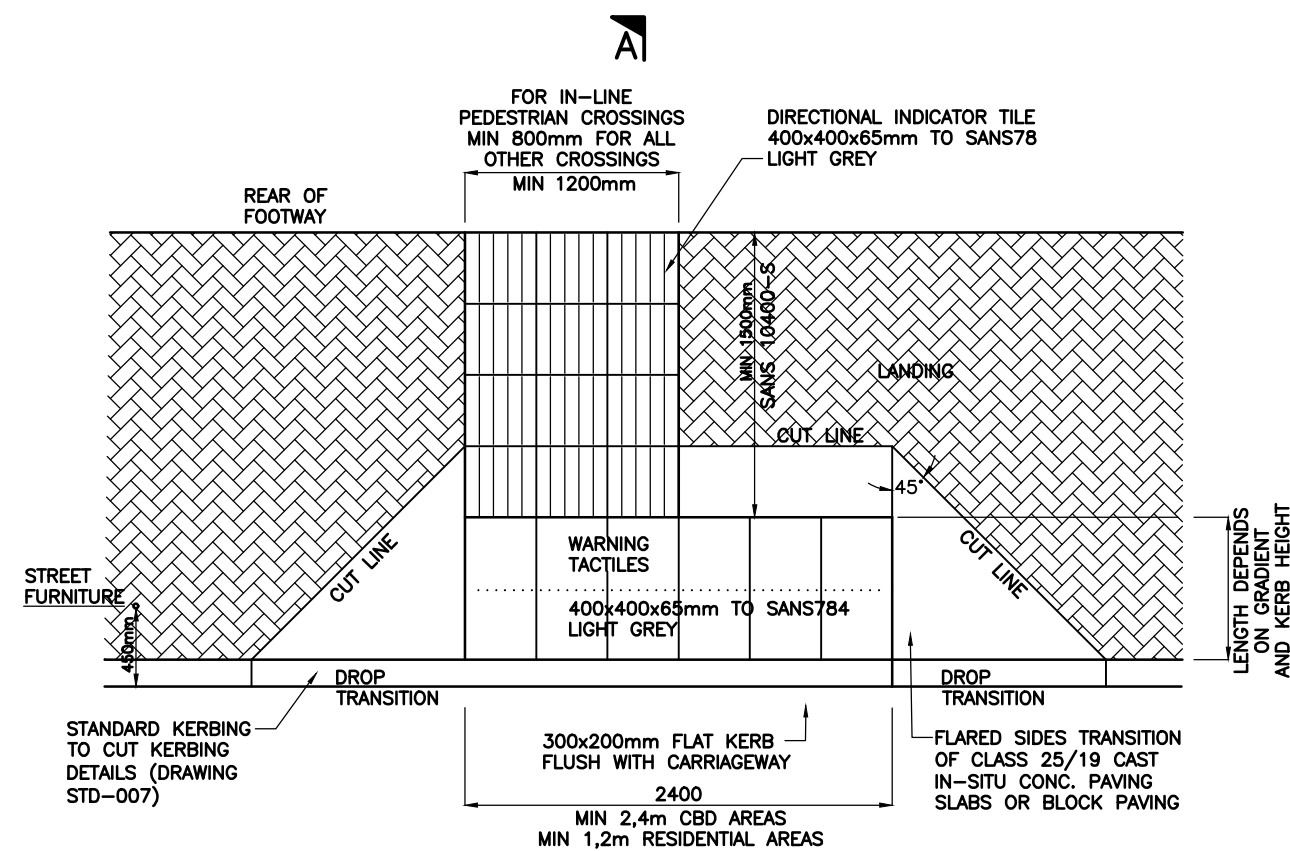
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27/05/2022	SCALE: AS SHOWN

DRAWING NO.	
J 2145/01/SD/002	SHEET NO. 2

ORIGINAL PAPER SIZE	
A0	SCALE: AS SHOWN

DRAWING NO.	
J 2145/01/SD/002	SHEET NO. 2

DRAWING NO.	
J 2145/01/SD/002	SHEET NO. 2



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 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON

[illegible]

DESIGNED	JJ	DRAWN	JJ
DESIGN CHECKED BY	CW	INFRASTRUCTURE, TECHNICAL INFORMATION MANAGEMENT	

DATE	DATE	DATE	DATE
PROJECT STATUS			
☐ ON HOLD	☒ ON TRACK	☐ ON TRACK WITH DELAY	☐ SLIP AWAY
PROJECT ENGINEER (CONSULTANT)			
INITIALS AND SURNAME	SIGNATURE AND Pr. No.		DATE
INSPECTOR OF WORKS (CITY OF TISHMANE):			
INITIALS AND SURNAME	SIGNATURE AND Pr. No.		DATE

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DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenya

SIGNATURE: _____ DATE: _____

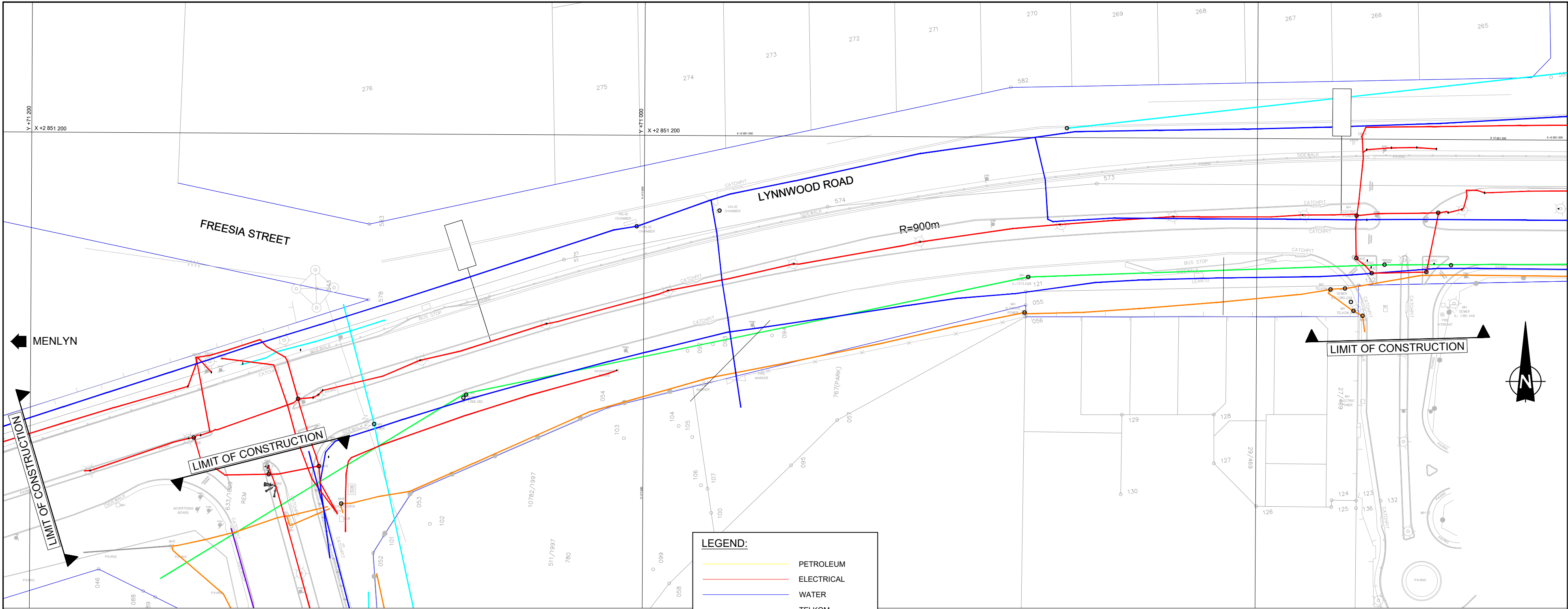
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**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

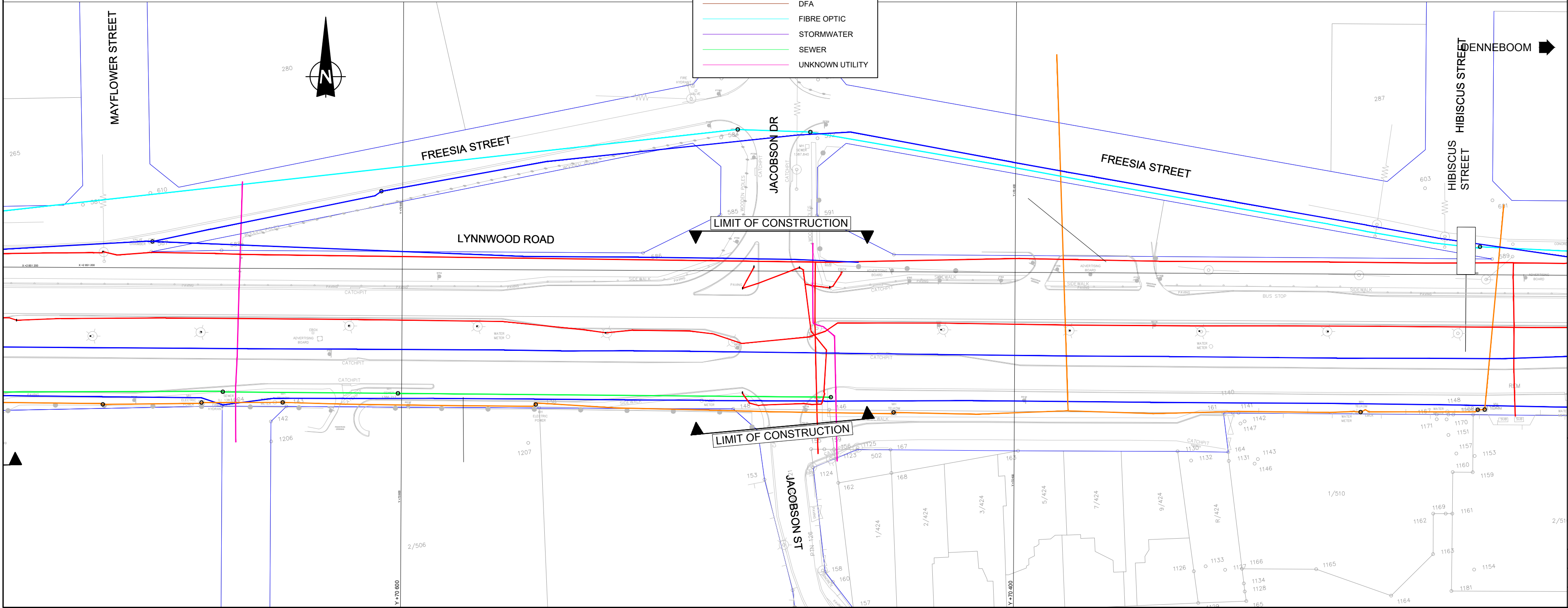
DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
TYPICAL STANDARD DETAILS
FOR NMT

CONTRACT No. :		PROJECT No. :	
DATE : 27/05/2022		SCALE : AS SHOWN	
DRAWING NO. J 2145/02/SD/003		ORIGINAL PAPER SIZE: A0	
SHEET NO. 3		 HUSSEIN	



EXISTING SERVICES LEGEND



AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	27/05/2022	CW	REVISION FOR APPROVAL	1
2	11/02/22	CW	ISSUED FOR TENDER	1

DESIGNED		DRAWN	
NAME	DATE	NAME	DATE
JJ		JJ	

DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
NAME	DATE	NAME	DATE
CW			

PROJECT STATUS	
☐ PROJECT STOPPED	☐ APPROVED FOR CONSTRUCTION
☐ PROJECT ENGINEER (CONSULTANT)	☐ AS-BUILT DRAWING
INITIALS AND SURNAME	SIGNATURE AND P. NO.
INSPECTOR OF WORKS (CITY OF TSHWANE)	DATE
INITIALS AND SURNAME	SIGNATURE AND P. NO.
	DATE

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306 Lois Avenue Newlands, Menlyn, Pretoria, 0181	
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CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
Ms Imelda Tabenye DIVISIONAL HEAD - IPTN DIVISION	Ms P. I. Lelani EXECUTIVE DIRECTOR
P.O. BOX 1409 PRETORIA 0001	P.O. BOX 1409 PRETORIA 0001

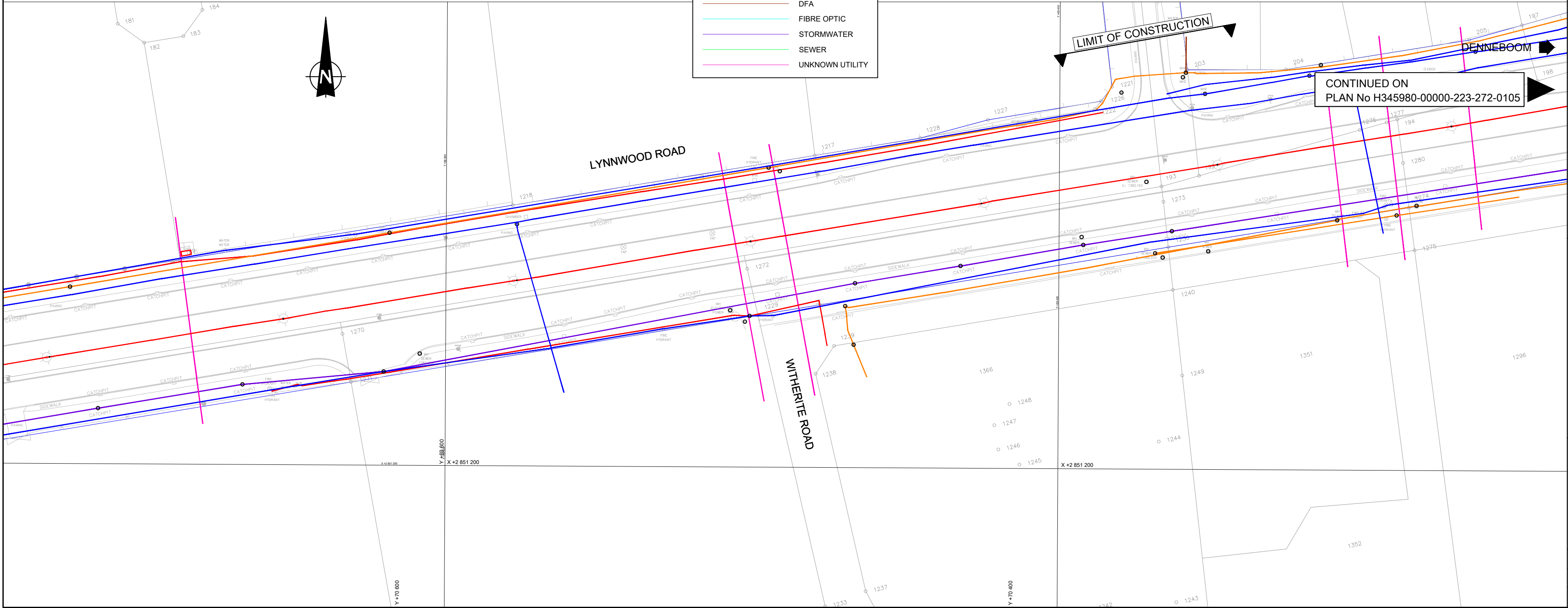
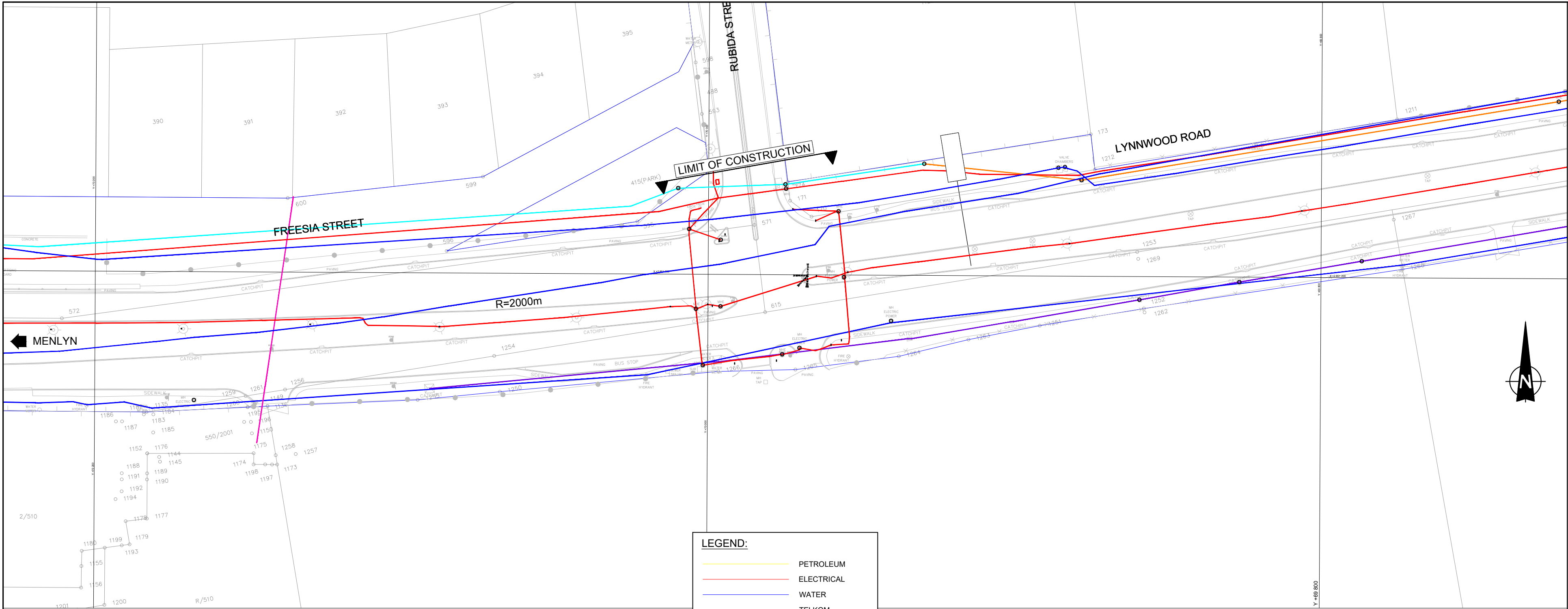
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BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	

DESCRIPTION OF DRAWING	
LYNNWOOD ROAD - WP2 SERVICES DETECTION SHEET 1 OF 4	

CONTRACT NO.:		PROJECT NO.:	
27/05/2022		J 2145/02/DET/001	

DATE:		SCALE:		ORIGINAL PAPER SIZE:	
27/05/2022		1:500		A0	

DRAWING NO.:		SHEET NO.:	
J 2145/02/DET/001		2	



EXISTING SERVICES LEGEND

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	27/05/2022	CH	ISSUED FOR TENDER
2	11/02/22	CH	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DESIGN CHECKED BY	CH	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
PROJECT ENGINEER (CONSULTANT)			

PROJECT STATUS			
☐ COMPLETE	☒ IN PROGRESS	☐ APPROVED FOR CONSTRUCTION	☐ AS-BUILT
INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE	
INSPECTOR OF WORKS (CITY OF TSHWANE)			
INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE	

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - IPTIN DIVISION

Ms P. J. Lelwana
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA
0001

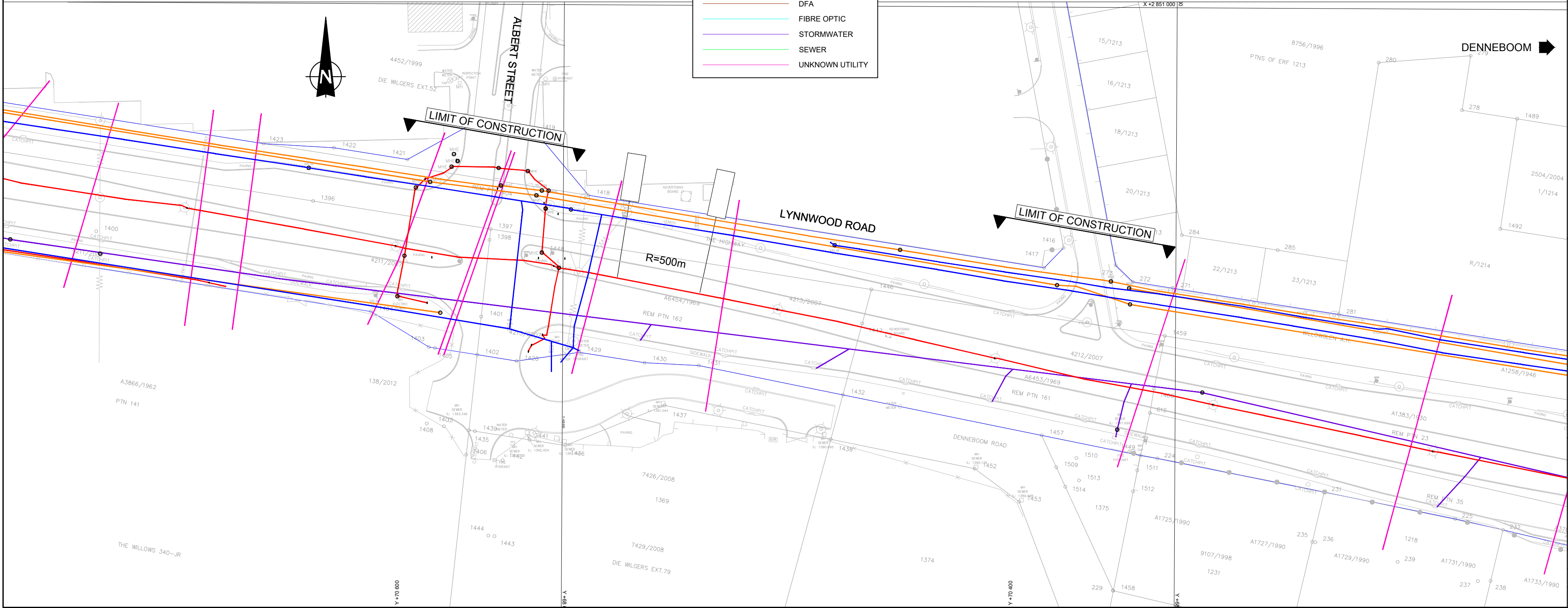
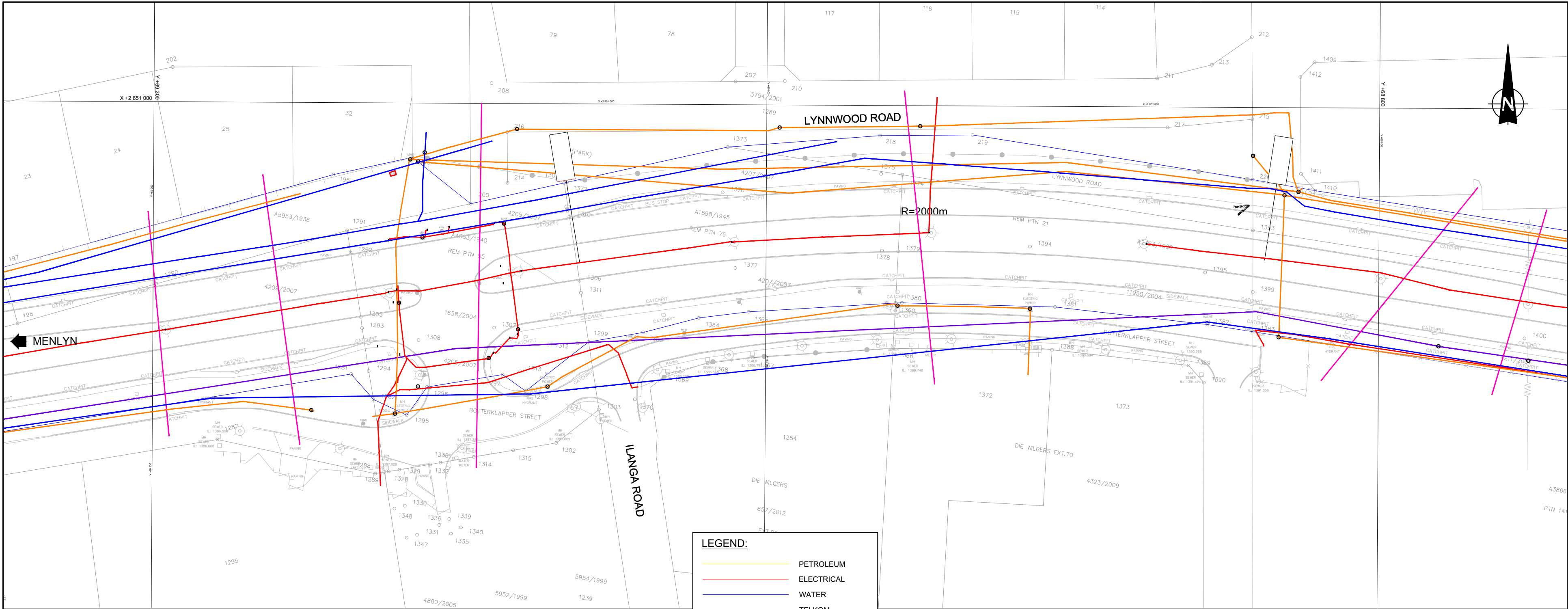
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DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

DESCRIPTION OF DRAWING:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

**LYNNWOOD ROAD - WP2
SERVICES DETECTION
SHEET 2 OF 4**

CONTRACT NO.:	PROJECT NO.:
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/DET/002	SHEET NO. 2
	REVISION



EXISTING SERVICES LEGEND

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FILE
1	27/05/2022	CW	ISSUED FOR APPROVAL	
2	11/02/22	CW	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
CHECKED BY	CW	APPROVED FOR CONSTRUCTION	
PROJECT ENGINEER (CONSULTANT)		APPROVED FOR CONSTRUCTION	

PROJECT STATUS			
☒ DESIGN	☒ APPROVED FOR CONSTRUCTION	☐ AS-BUILT	☐ ISSUED FOR TENDER
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE

BAHLAPHING CONSULTING

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CITY OF TSHWANE
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Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION

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PRETORIA
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Ms P. J. Lelwani
EXECUTIVE DIRECTOR

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CONTRACT NO.:	PROJECT NO.:
DATE:	SCALE:
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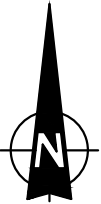
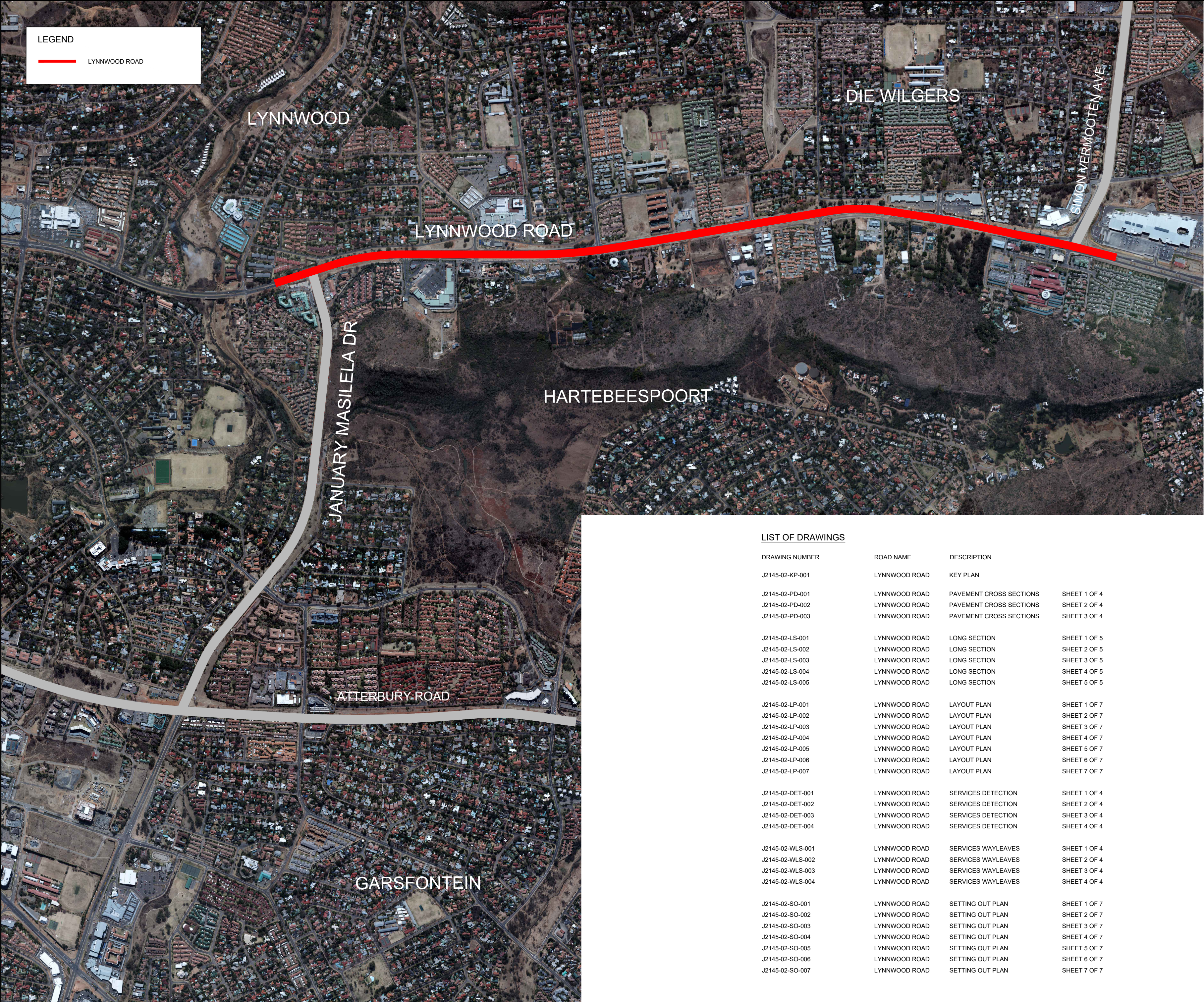
DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING

LYNNWOOD ROAD - WP2
SERVICES DETECTION
SHEET 3 OF 4

DATE:	SCALE:	ORIGINAL PAPER SIZE:
27/05/2022	1:500	A0
DRAWING NO.:	SHEET NO.:	REVISION
J 2145/02/DET/003	2	



NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAGE
1	25/05/22	CW	SECTION FOR TENDER	
2	11/02/22	CW	ISSUED FOR TENDER	

DESIGNED	CW	DRAWN	CW
CHECKED		CHECKED	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
DATE		DATE	

PROJECT STATUS			
☐	☒	☐	☐
DESIGNED	ISSUED FOR TENDER	APPROVED FOR CONSTRUCTION	AS BUILT
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
BAHLAPHING CONSULTING		



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DIVISIONAL HEAD - RPTN DIVISION

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0001



Ms P. I. Lelani
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA
0001

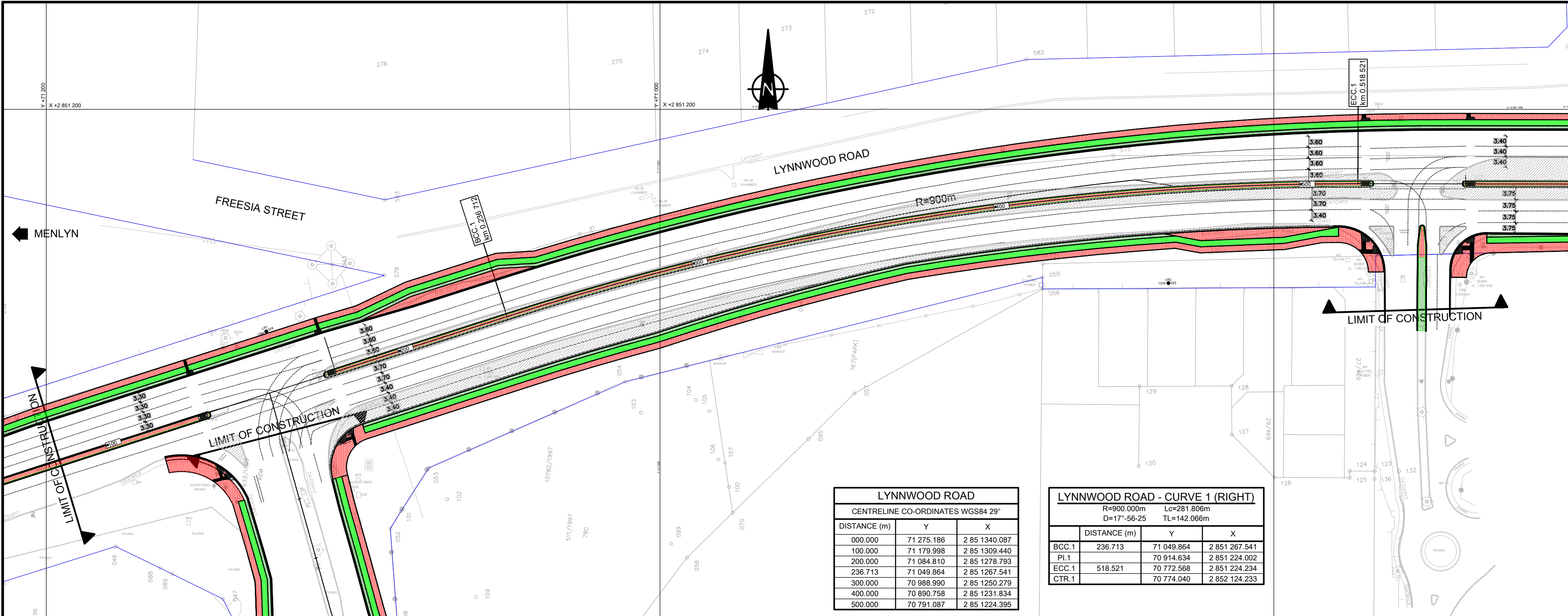
DESCRIPTION OF PROJECT	DATE

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

**LYNNWOOD ROAD - WP2
KEY PLAN**

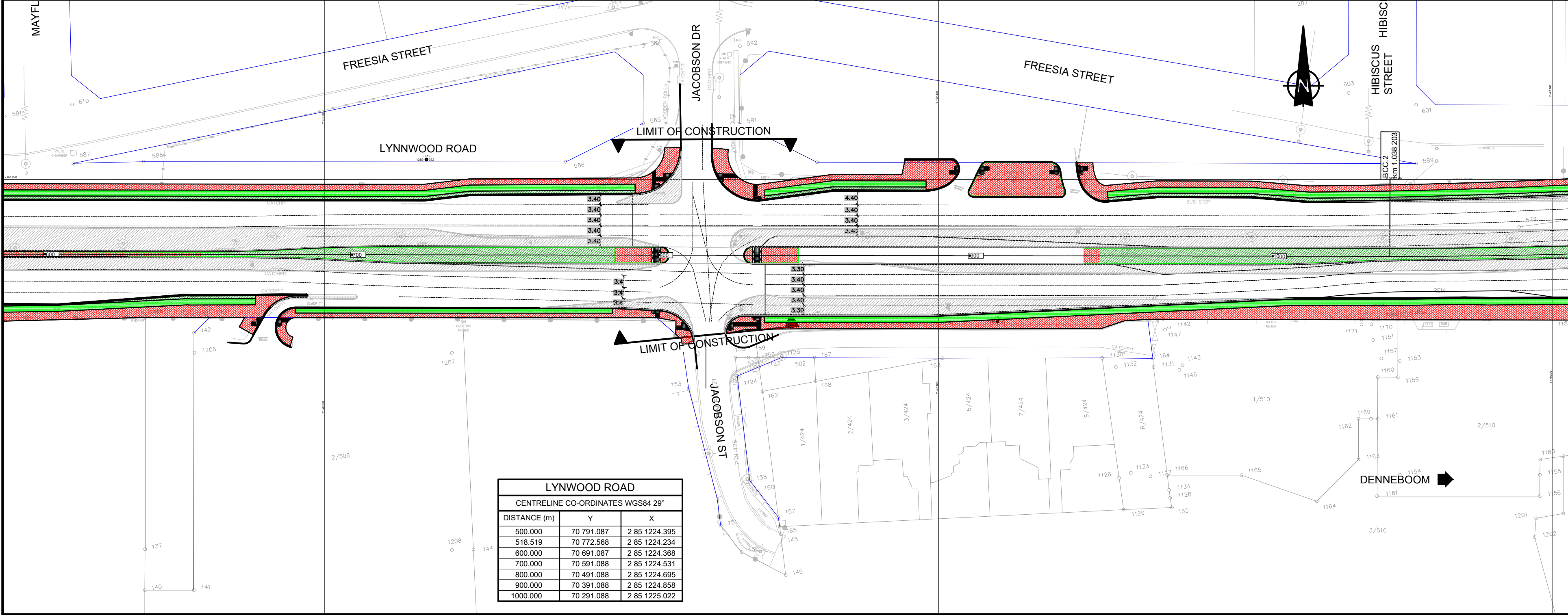
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DATE: 27/05/2022	SCALE: 1:500	ORIGINAL PAPER SIZE: A0
DRAWING NO: J 2145/02/KP/001	SHEET NO: 1	REVISION: 



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 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS
 6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. (IF APPLICABLE)
 7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
 8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

- LEGEND**
- ROAD WIDENING
 - PEDESTRIAN WALKWAY
 - CYCLE LANE
 - MEDIANS / ISLANDS
 - TRT STATIONS
 - TRT BARRIER KERB
 - TRT LANE
 - CADASTRAL BOUNDARY



AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FILE
1	21-02-24	OK	ISSUED FOR APPROVAL	
2	01-07-24	OK	ISSUED FOR TENDER	

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT):

INSPECTOR OF WORKS (CITY OF TSHWANE):

BAHLAPHING CONSULTING

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA 0001

M P L Luthlazi
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN

LYNNWOOD ROAD - WP2
LAYOUT PLAN
SHEET 1 OF 4

CONTRACT NO.:
PROJECT NO.:
DATE: 27/05/2022 SCALE: 1:500 ORIGINAL PAPER SIZE: A0
DRAWING NO: J 2145/02/LP/001 SHEET NO: 3



NOTES AND SPECIFICATIONS

GENERAL

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.

2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)

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LEGEND

ROAD WIDENING

PEDESTRIAN WALKWAY

CYCLE LANE

MEDIANS / ISLANDS

TRT STATIONS

TRT BARRIER KERB

TRT LANE

CADASTRAL BOUNDARY

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	ISSUED FOR APPROVAL	ISSUED FOR TENDER
1	01-10-21	CW			
2	01-07-24	CW			

DESIGNED BY: JJ

DRAWN BY: JJ

DESIGN CHECKED BY: CW

INFRASTRUCTURE TECHNICAL INFORMATION MANAGER: D.J. CHAMBERS

PROJECT STATUS

ON

ON

ON

ON

PROJECT ENGINEER (CONSULTANT):

INITIALS AND SURNAME: DATE:

INSPECTOR OF WORKS (CITY OF TSHWANE):

INITIALS AND SURNAME: SIGNATURE AND P. NO.: DATE:

BAHLAPHING CONSULTING

BC

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www.bahlaphing.com

CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. L. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
LAYOUT PLAN
SHEET 2 OF 4

CONTRACT NO. 1

PROJECT NO. 1

DATE: 27/05/2022

SCALE: 1:500

ORIGINAL PAPER SIZE: A0

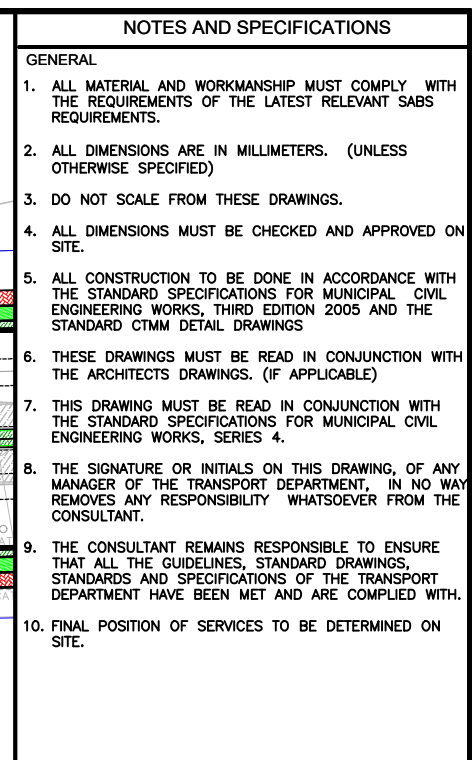
DRAWING NO. J 2145/02/LP/002

SHEET NO. 3

REVISION

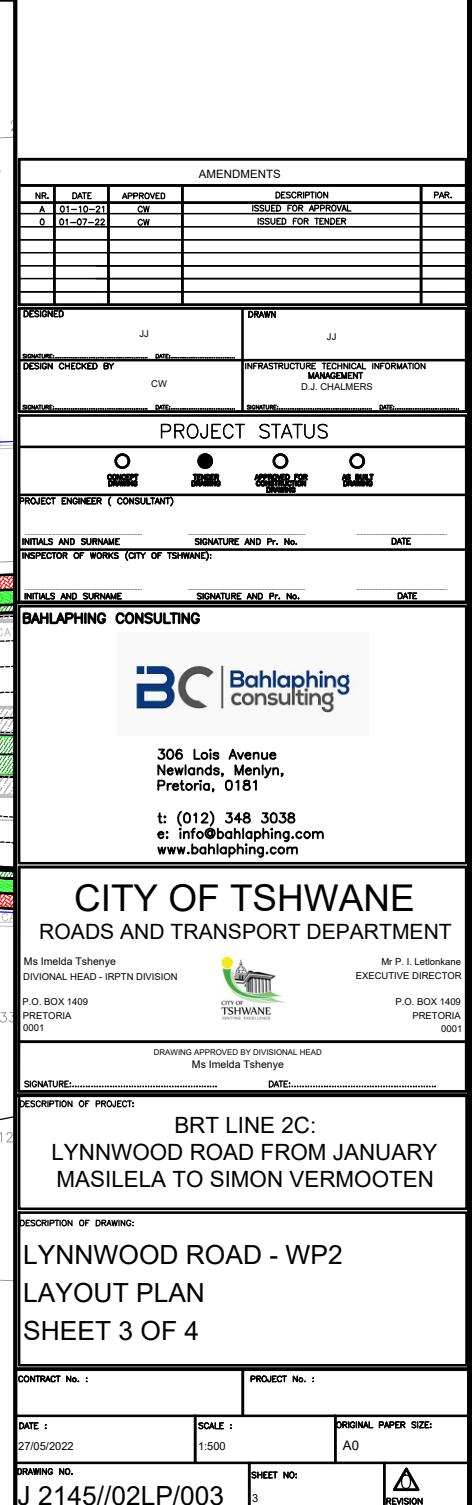
LYNNWOOD ROAD - CURVE 3 (RIGHT)			
R=700.000m		Lc=224.482m	
D=18°-22-27		TL=113.213m	
	DISTANCE (m)	Y	X
BCC.3	2 244.101	69 060.839	2 851 051.595
PI.3		68 949.229	2 851 032.609
ECC.3	2 468.583	68 837.325	2 851 049.773
CTR.3		68 943.448	2 851 047.681

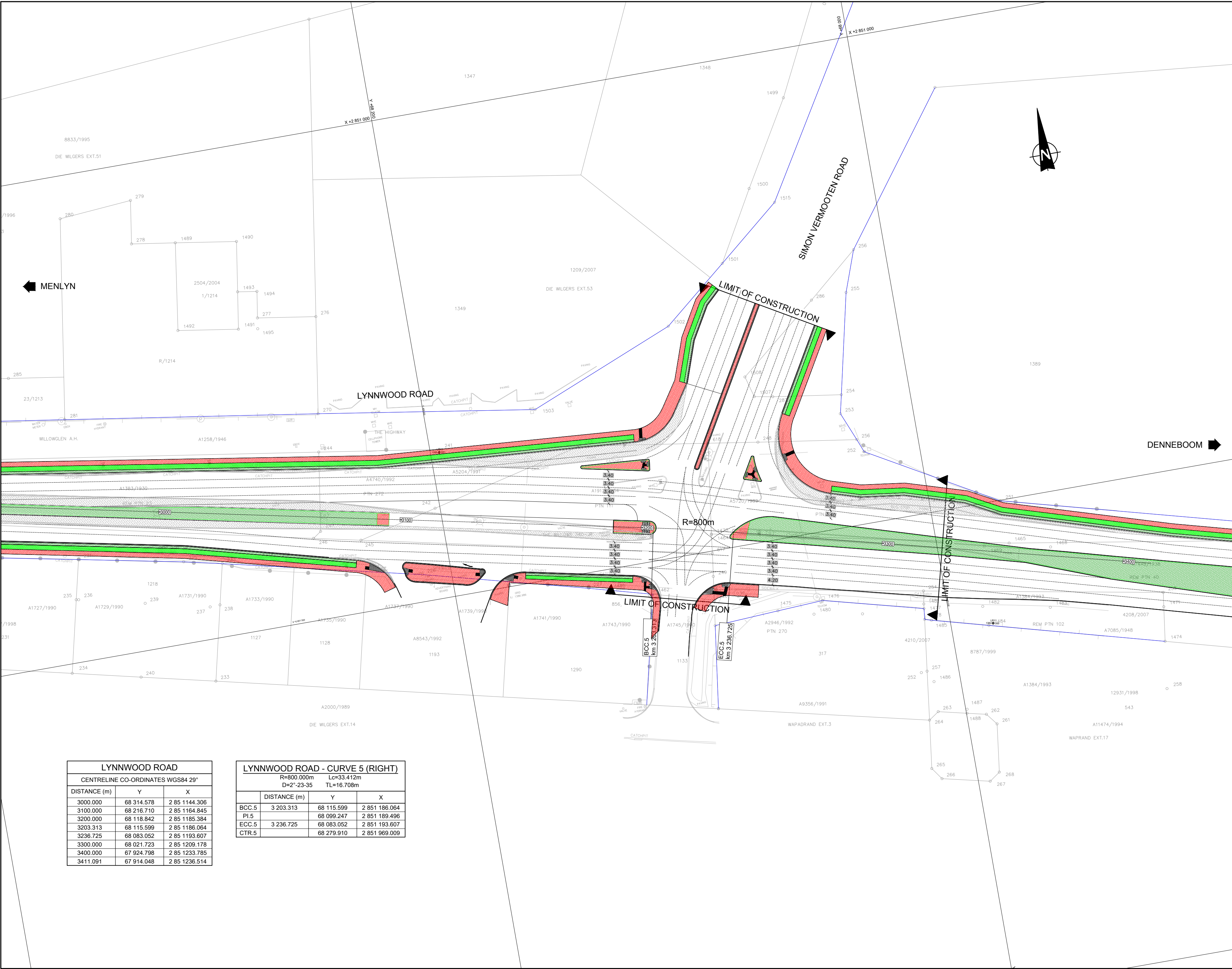
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CTR.3		68 943.448	2 851 047.681



LEGEND

	ROAD WIDENING
	PEDESTRIAN WALKWAY
	CYCLE LANE
	MEDIANS / ISLANDS
	TRT STATIONS
	TRT BARRIER KERB
	TRT LANE
	CADASTRAL BOUNDARY





NOTES AND SPECIFICATIONS

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LEGEND

ROAD WIDENING

PEDESTRIAN WALKWAY

CYCLE LANE

MEDIANS / ISLANDS

TRT STATIONS

TRT BARRIER KERB

TRT LANE

CADASTRAL BOUNDARY

AMENDMENTS

NR.	DATE	APPROVED	DESCRIPTION	FW.
1	21-05-2022	JJ	ISSUED FOR APPROVAL	
2	01-07-24	CW	ISSUED FOR TENDER	

DESIGNED JJ

DRAWN JJ

DATE

DATE

DESIGN CHECKED BY

INFRASTRUCTURE TECHNICAL INFORMATION

CW

D.J. CHALMERS

PROJECT ENGINEER (CONSULTANT)

PROJECT ENGINEER (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. No.

DATE

INITIALS AND SURNAME

SIGNATURE AND P. No.

DATE

BAHLAPHING CONSULTING

BC

Bahlaphing consulting

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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P.O. BOX 1409
PRETORIA
0001

Ms P. I. Luthlazi
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
LAYOUT PLAN
SHEET 4 OF 4

CONTRACT No. :

PROJECT No. :

DATE :

SCALE :

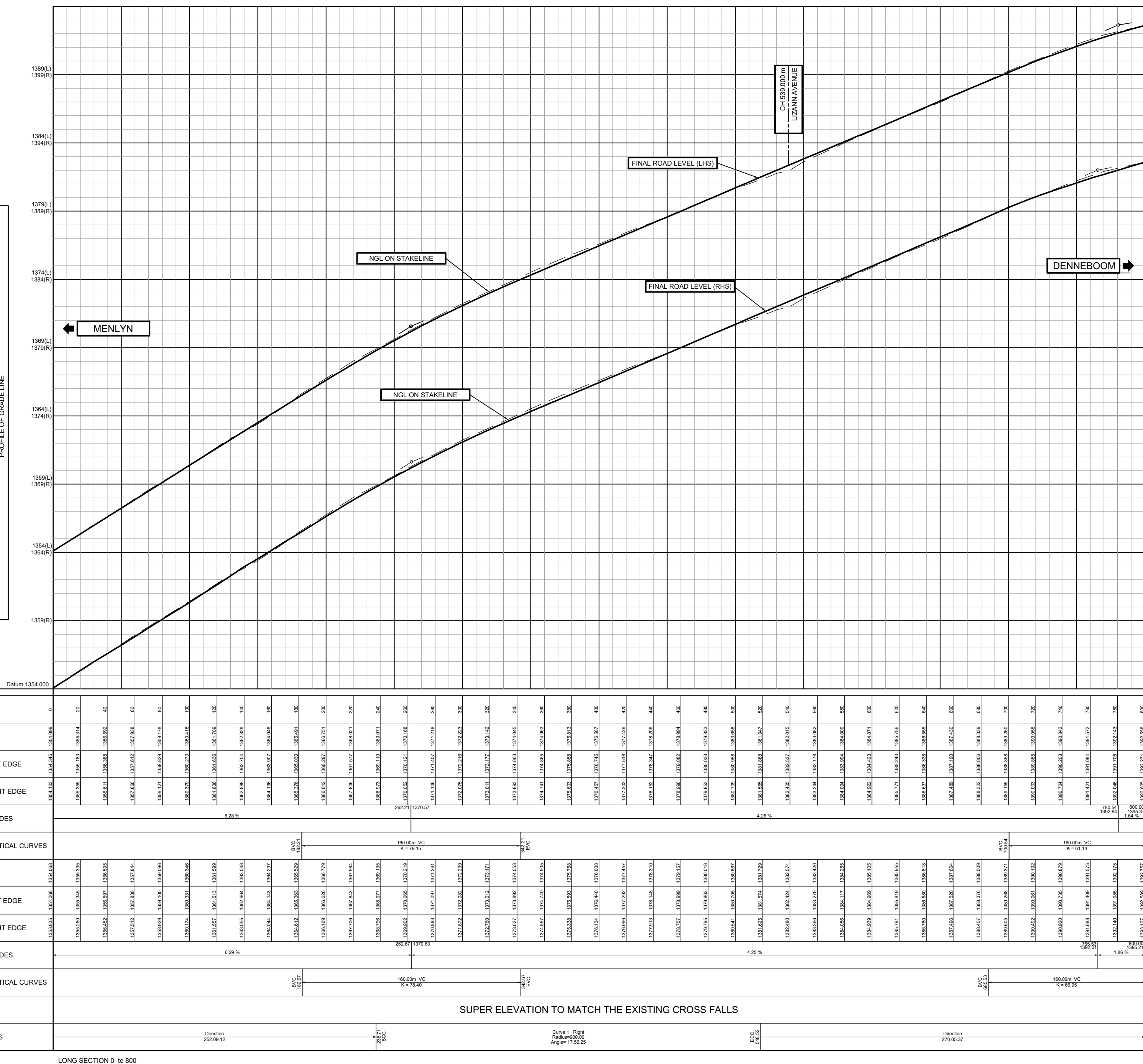
ORIGINAL PAPER SIZE:

DRAWING NO.:

SHEET NO.:

REVISION

SCALE H: 1:1000
V: 1:100



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[illegible]

DESIGNED	JJ	DRAWN	JJ
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT	

PROJECT STATUS			
☐	☒	☐	☐

PROJECT ENGINEER (CONSULTANT)	
-------------------------------	--

INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHINANE):		

INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
BAHLAPHING CONSULTING		

BC | Bahlaphing consulting

306 Lois Avenue
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e: info@bahlaphing.com
www.bahlaphing.com

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

SIGNATURE: _____ DATE: _____

DESCRIPTION OF PROJECT:

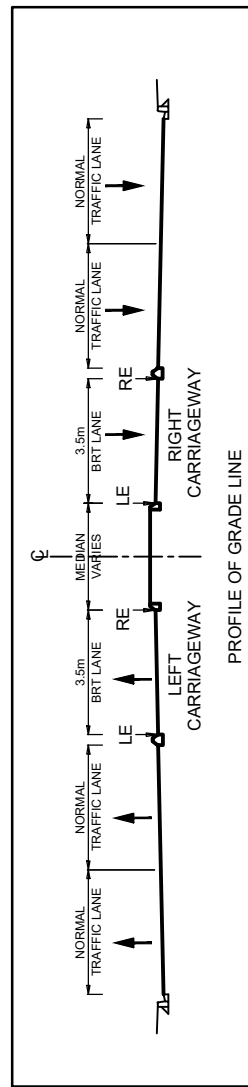
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:
LYNNWOOD ROAD - WP2
LONGITUDINAL SECTION

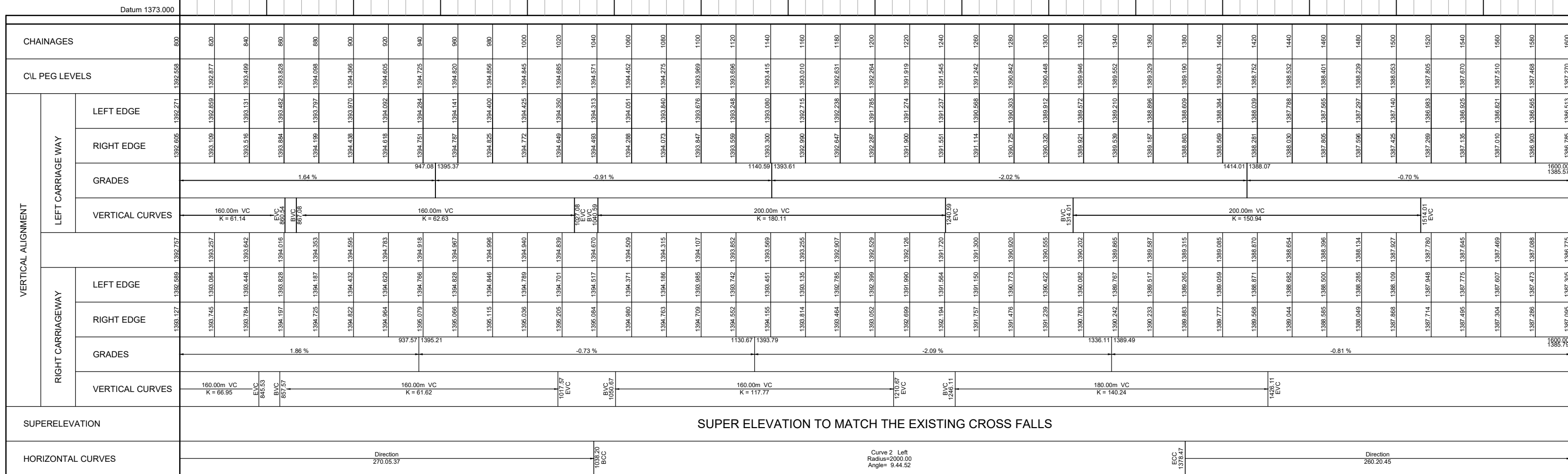
SHEET 1 OF 5

CONTRACT No. :		PROJECT No. :	
DATE :		SCALE :	ORIGINAL PAPER SIZE:

27/05/2022	AS SHOWN	A0
DRAWING NO. 2145/02/1 S/001	SHEET NO: 1	



SCALE H: 1:1000
V: 1:100



LONG SECTION 800 TO 1600

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	BY
1	2024-05-24	OK	ISSUED FOR APPROVAL	
2	2024-05-24	OK	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
CHECKED			
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT

PROJECT STATUS			
☐	☒	☐	☐

PROJECT ENGINEER (CONSULTANT)	
DRAWING APPROVED BY	

DETAILS AND SIGNATURE	SIGNATURE AND P. NO.	DATE

DETAILS AND SIGNATURE	SIGNATURE AND P. NO.	DATE

BAHLAPHING CONSULTING



306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

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e: info@bahlaphing.com
www.bahlaphing.com

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshwene
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. I. Leluthane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

SIGNATURE:	DATE:

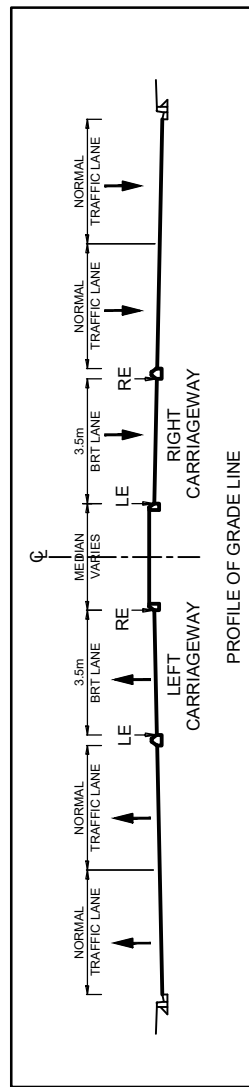
DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

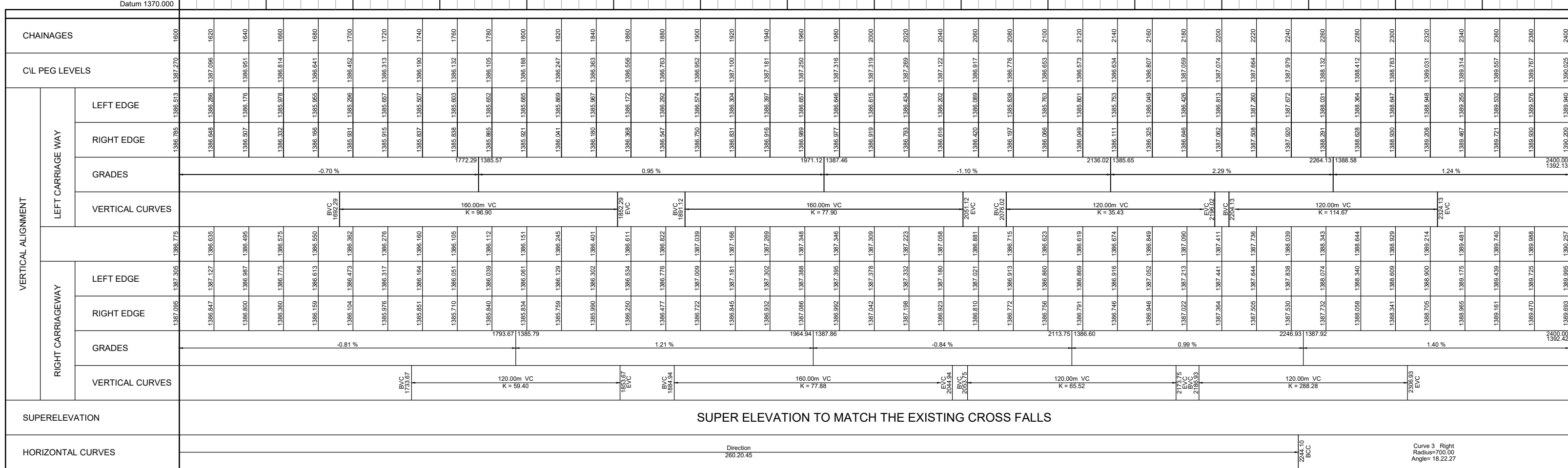
DESCRIPTION OF DRAWING

LYNNWOOD ROAD WP2
LONGITUDINAL SECTION
SHEET 2 OF 5

CONTRACT No. 1	PROJECT No. 1
DATE: 27/05/2022	SCALE: AS SHOWN
DRAWING NO. J 2145/02/LS/002	SHEET NO. 1



SCALE H: 1:1000
V: 1:100



LONG SECTION 1600 TO 2400

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAW
A	2024-02-24	OK	ISSUED FOR APPROVAL	
B	2024-02-24	OK	ISSUED FOR TENDER	

DESIGNED		DRAWN	
JJ		JJ	
DESIGN CHECKED BY: INFRASTRUCTURE TECHNICAL INFORMATION			
DRAWN BY: JH			

PROJECT STATUS			
O ● O O			
PROJECT ENGINEER (CONSULTANT)			
TITLE AND SURNAME: SIGNATURE AND P. No. DATE			
SUPERVISOR OF WORKS (CITY OF TSHWANE)			
TITLE AND SURNAME: SIGNATURE AND P. No. DATE			

BAHLAPHING CONSULTING

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshwene
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA, 0001

Mr P. I. Leloshane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA, 0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshwene

DATE: 27/05/2022 SCALE: AS SHOWN ORIGINAL PAPER SIZE: A0

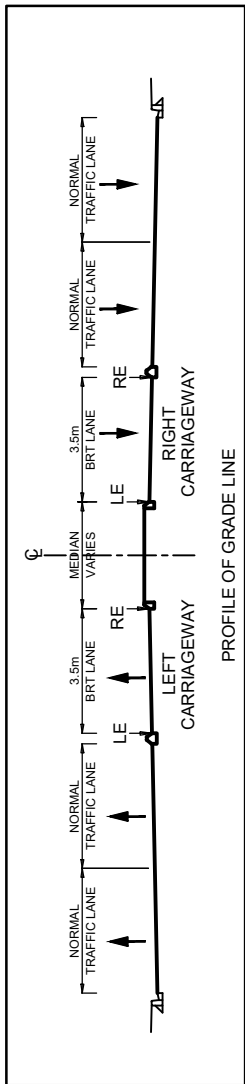
DESCRIPTION OF PROJECT: BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING: LYNNWOOD ROAD - WP2 LONGITUDINAL SECTION SHEET 3 OF 5

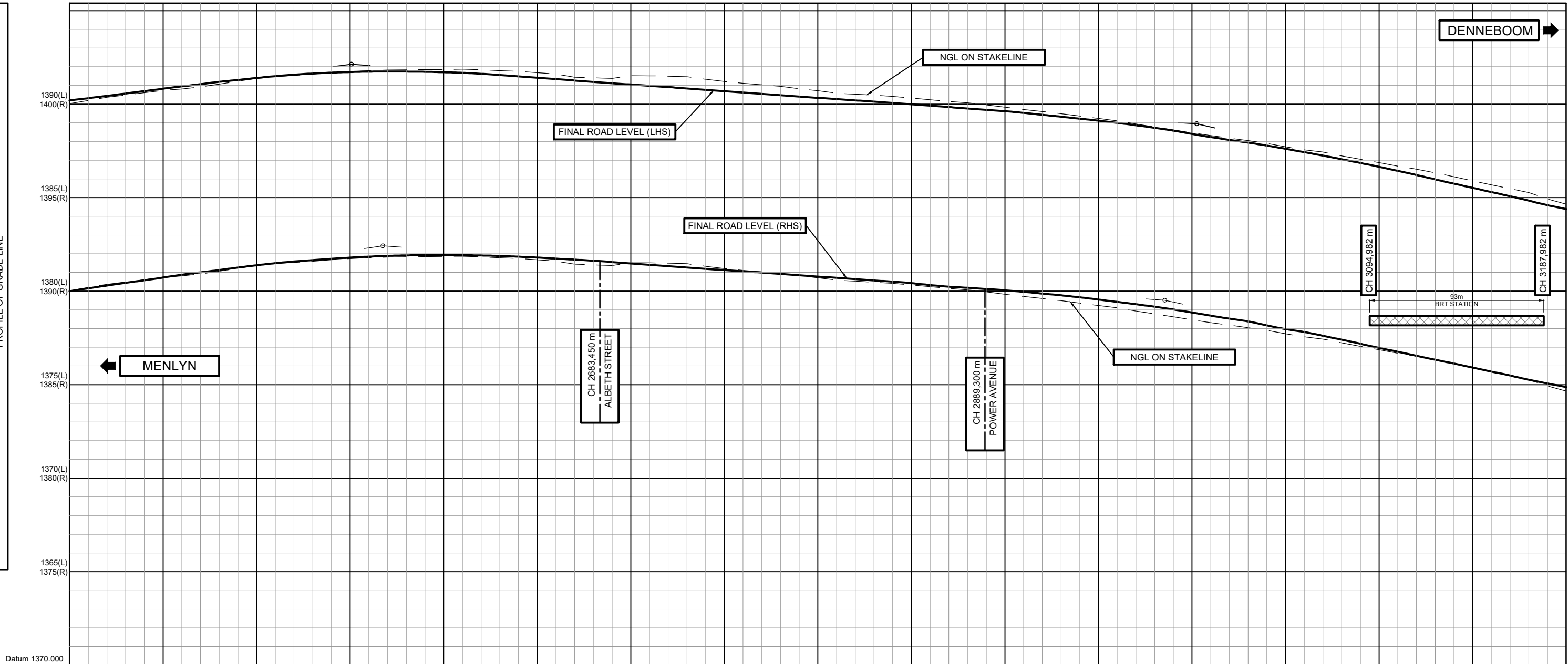
CONTRACT No. 1 PROJECT No. 1

DATE: 27/05/2022 SCALE: AS SHOWN ORIGINAL PAPER SIZE: A0

DRAWING NO. J 2145/02/LS/003 SHEET NO. 1



SCALE H: 1:1000
V: 1:100



CHAINAGES		2400																		
C/L PEG LEVELS		1390.024																		
VERTICAL ALIGNMENT	LEFT CARRIAGEWAY	LEFT CARRIAGE WAY																		
		LEFT EDGE	RIGHT EDGE																	
		GRADES		1.24 %																
		VERTICAL CURVES		BVC 2407.53 160.00m VC K = 82.31																
	RIGHT CARRIAGEWAY	LEFT EDGE	1389.693	1389.695	1390.677															
		RIGHT EDGE																		
		GRADES	1.40 %																	
	VERTICAL CURVES	BVC 2407.53 200.00m VC K = 95.23																		
	SUPERELEVATION		SUPER ELEVATION TO MATCH THE EXISTING CROSS FALLS																	
	HORIZONTAL CURVES		Curve 3 Right Radius=700.00 Angles= 18.22 27 ECC 2408.38 Direction 278.43.12 Curve 4 Right Radius=500.00 Angles= 3.07 59 ECC 2772.06 Direction 281.51.08																	

LONG SECTION 2400 to 3200

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
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AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	PAW
A	2024-04-24	OK	REVIEW FOR APPROVAL	
B	2024-04-24	OK	REVIEW FOR APPROVAL	

PROJECT STATUS

DESIGNED

DRIVEN

DESIGN CHECKED BY

INFRASTRUCTURE TECHNICAL INFORMATION

DESIGNED

DRIVEN

DESIGN CHECKED BY

INFRASTRUCTURE TECHNICAL INFORMATION

PROJECT ENGINEER (CONSULTANT)

DETAILS AND SIGNATURE

SIGNATURE AND P. NO.

DATE

DETAILS AND SIGNATURE

SIGNATURE AND P. NO.

DATE

BAHLAPHING CONSULTING

BC

Bahlaphing consulting

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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PRETORIA, 0001

Mr P. I. Leloshane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA, 0001

DESCRIPTION OF PROJECT

CONTRACT No. 1

PROJECT No. 1

DATE 1

27/05/2022

SCALE 1

AS SHOWN

ORIGINAL PAPER SIZE

A0

DRAWING NO.

J 2145/02/LS/004

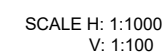
SHEET NO.

1

REVISION

DESCRIPTION OF DRAWING

LYNNWOOD ROAD - WP2
LONGITUDINAL SECTION
SHEET 4 OF 5

LONG SECTION 3200 to 3350

- | | | |
|------------------|-----------|---|
| DRAWING NO. | SHEET NO: | |
| 12145/02/1 S/005 | | |



NOTE:
ASPHALT BASE TO BE CONSTRUCTED
CONFINED SPACES WERE A CRUSHED
STONE BASE CANNOT BE CONSTRUCTED
EFFICIENTLY

1. **GENERAL**
2. **ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.**
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11. **FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.**

DESIGNED	JJ	DRAWN	JJ
SIGNATURE: _____	DATE: _____	SIGNATURE: _____	DATE: _____
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT	
SIGNATURE: _____	DATE: _____	SIGNATURE: _____	DATE: _____

PROJECT ENGINEER (CONSULTANT)		
INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHIRANE):		

BC Bahlaphing consulting

306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

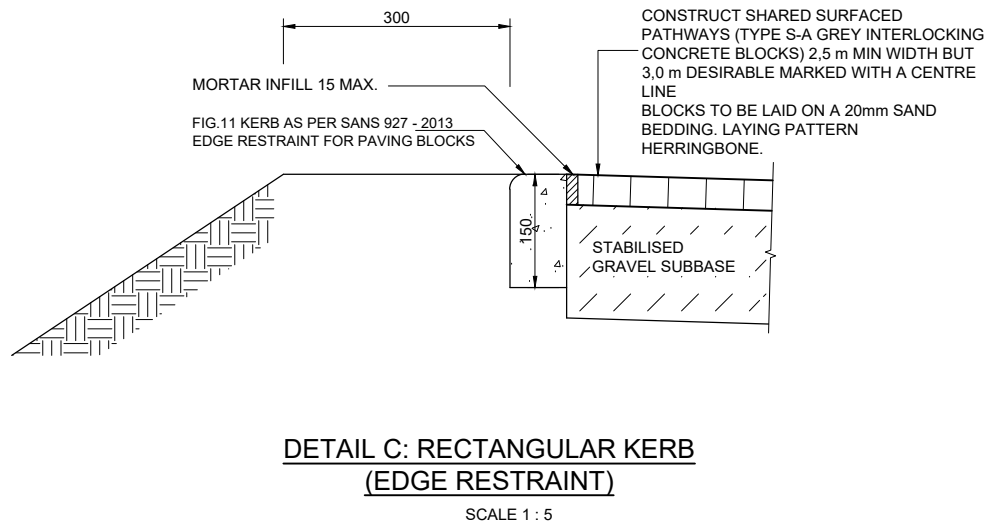
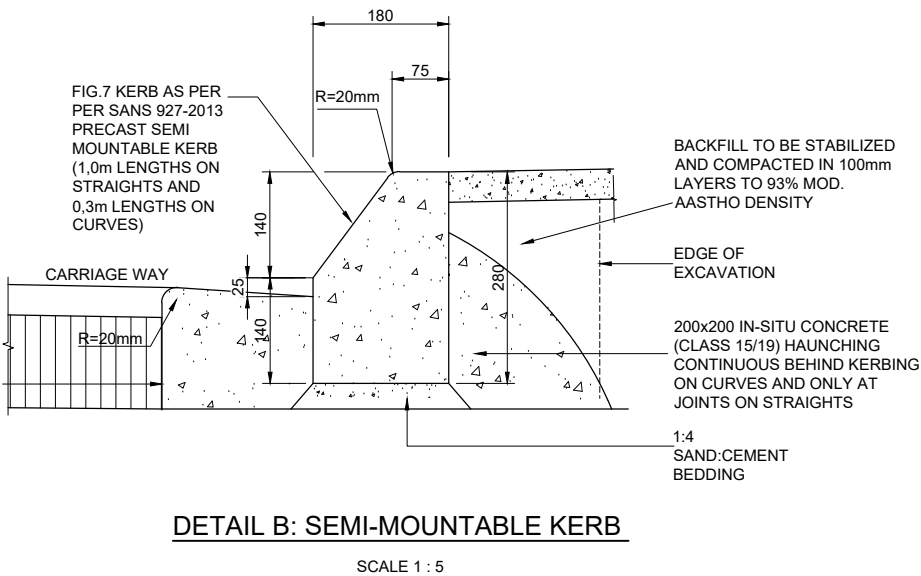
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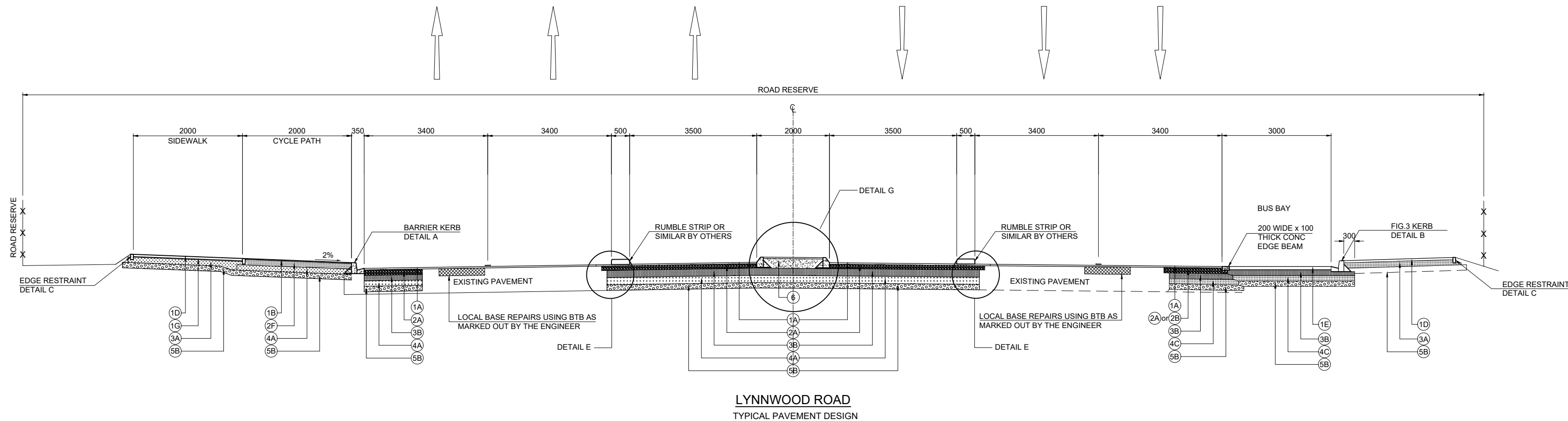
DRAWING APPROVED BY DIVISIONAL HEAD
 Ms Imelda Tshenye
 SIGNATURE: _____ DATE: _____

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
PAVEMENT DESIGN
SHEET 1 of 4

CONTRACT No. :		PROJECT No. :	
DATE :	SCALE :	ORIGINAL PAPER SIZE:	
20/04/2022	AS SHOWN	A0	
DRAWING NO.		SHEET NO:	 REVISION
J 2145/02/PD/001		1	





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AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-21	CW	ISSUED FOR APPROVAL
2	01-02-21	CW	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	WUWUWUWU
DATE		DATE	

PROJECT STATUS			

PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. No.
INSPECTOR OF WORKS (CITY OF TSHWANE)	DATE
INITIALS AND SURNAME	SIGNATURE AND P. No.
	DATE

BAHLAPHING CONSULTING



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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. J. Lelwani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

SIGNATURE:	DATE:

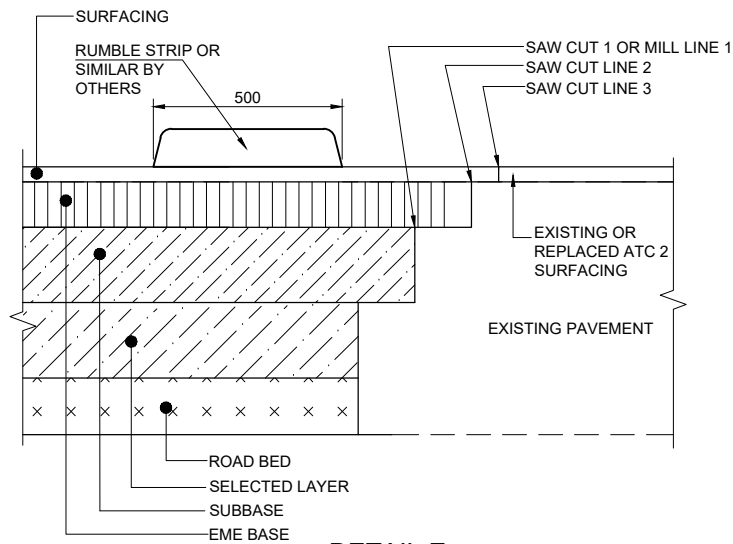
DESCRIPTION OF PROJECT:

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:

**LYNNWOOD ROAD - WP2
PAVEMENT DESIGN
SHEET 2 of 4**

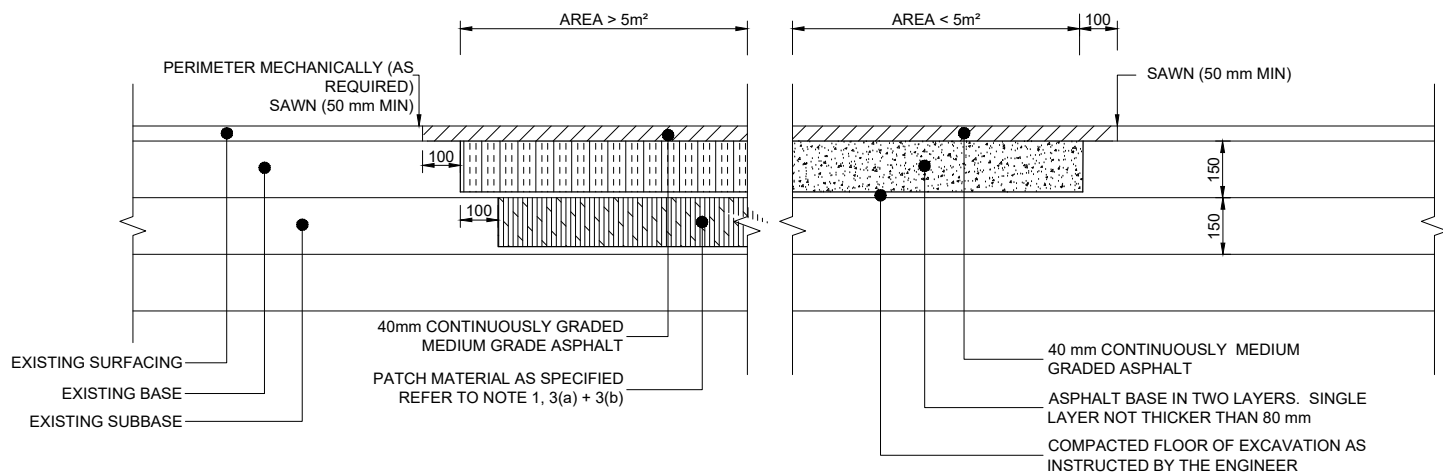
CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/02/PD/002	SHEET NO. 2



DETAIL E
SCALE 1 : 10

NOTE 1:

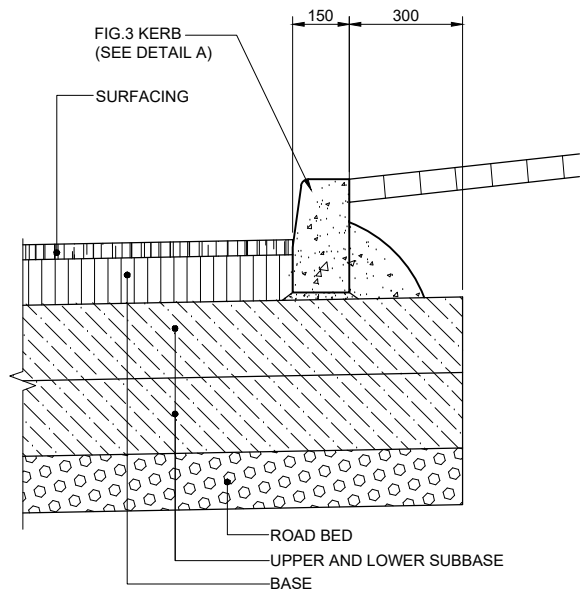
- THE CONSTRUCTION SEQUENCE FOR BOX CUT PAVEMENT SHALL BE AS FOLLOWS:
1. MILL BOX CUT UP TO SAW CUT LINE 1 OR MILL LINE 1 OR SAW CUT AT LEAST 100mm DEEP AND EXCAVATE PAVEMENT UP TO TOP OF SELECTED.
 2. CONSTRUCT SELECTED/ROAD BED AS PER INSTRUCTION BY ENGINEER.
 3. CONSTRUCT BOX UP TO TOP OF SUBBASE WITH STEP BETWEEN SELECTED AND SUBBASE.
 4. SAW CUT AT LINE 2 100mm DEEP AND BENCH.
 5. CONSTRUCT BASE.
 6. SAW CUT AT LINE 3 40mm DEEP AND EXCAVATE BENCH.
 7. TREAT EDGE WITH TACK COAT AND CONSTRUCT SURFACING.



DETAIL F
SCALE 1 : 10

NOTE 1:

1. SAW CUT PERIMETER
2. EXCAVATE SURFACING AND BASE BY HAND AND SPOIL
3. COMPACT FLOOR AS INSTRUCTED BY THE ENGINEER AND BACKFILL TO TOP OF SURFACING WITH:
 - a. BASE G1 MATERIAL STABILISED WITH BITUMEN EMULSION (2% NET BITUMEN) AND 1% CEMENT COMPACTED TO 100% OF MOD. AASHTO DENSITY
 - b. SUBBASE: G5 MATERIAL STABILISED WITH 2% CEMENT COMPACTED TO 97% OF MOD AASHTO DENSITY
4. APPLY DILUTED EMULSION AT 0,5 l / m² TO TOP OF BASE PATCHES AND SIDES OF EXCAVATIONS
5. PLACE ASPHALT SURFACING



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1	2024-24-24	ON	ISSUED FOR TENDER
2	01-02-24	ON	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
DATE		DATE	

PROJECT STATUS	
PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.
INSPECTOR OF WORKS (CITY OF TSHWANE)	DATE
INITIALS AND SURNAME	SIGNATURE AND P. NO.
DATE	

BAHLAPHING CONSULTING	
	
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t: (012) 348 3038 e: info@bahlaphing.com www.bahlaphing.com	

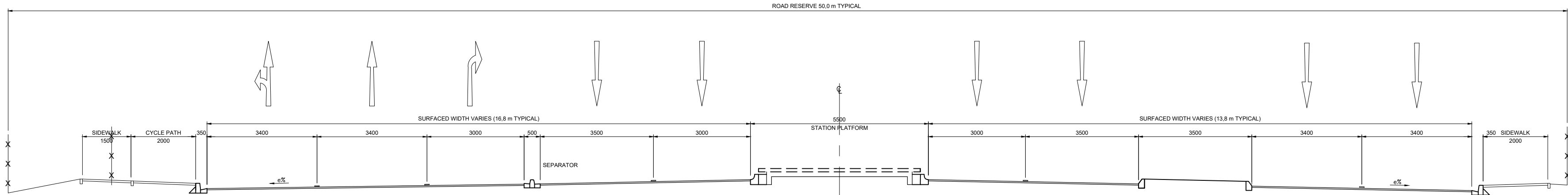
CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
Ms Imelda Tabenye DIVISIONAL HEAD - IPTN DIVISION P.O. BOX 1409 PRETORIA 0001	Ms P. I. Letsoana EXECUTIVE DIRECTOR P.O. BOX 1409 PRETORIA 0001

SIGNATURE:	DATE:
DESCRIPTION OF PROJECT:	

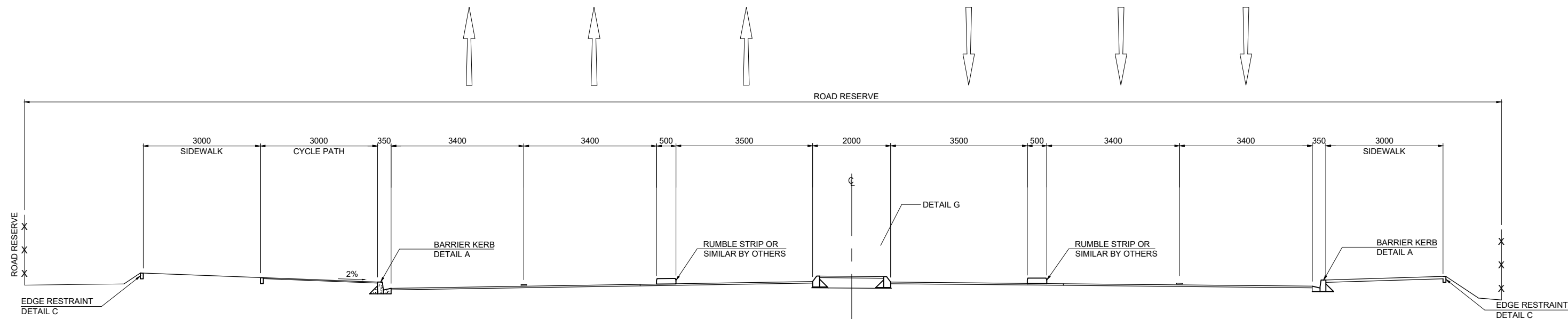
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:
LYNNWOOD ROAD - WP2
PAVEMENT DESIGN
SHEET 3 of 3

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/02/PD/003	SHEET NO: 3
ORIGINAL PAPER SIZE: A0	REVISION 



LYNNWOOD ROAD
INDICATING STATION PLATFORM 1



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2	01-02-21	CW	ISSUED FOR TENDER

DESIGNED	DRAWN
JJ	JJ
DATE	DATE
DESIGN CHECKED BY	INFRASTRUCTURE TECHNICAL INFORMATION
CW	MANAGEMENT
DATE	DATE

PROJECT STATUS	
☐	☒
☐	☐

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME SIGNATURE AND P. No. DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME SIGNATURE AND P. No. DATE

BAHLAPHING CONSULTING

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P.O. BOX 1409
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Mr P. J. Lelani
EXECUTIVE DIRECTOR

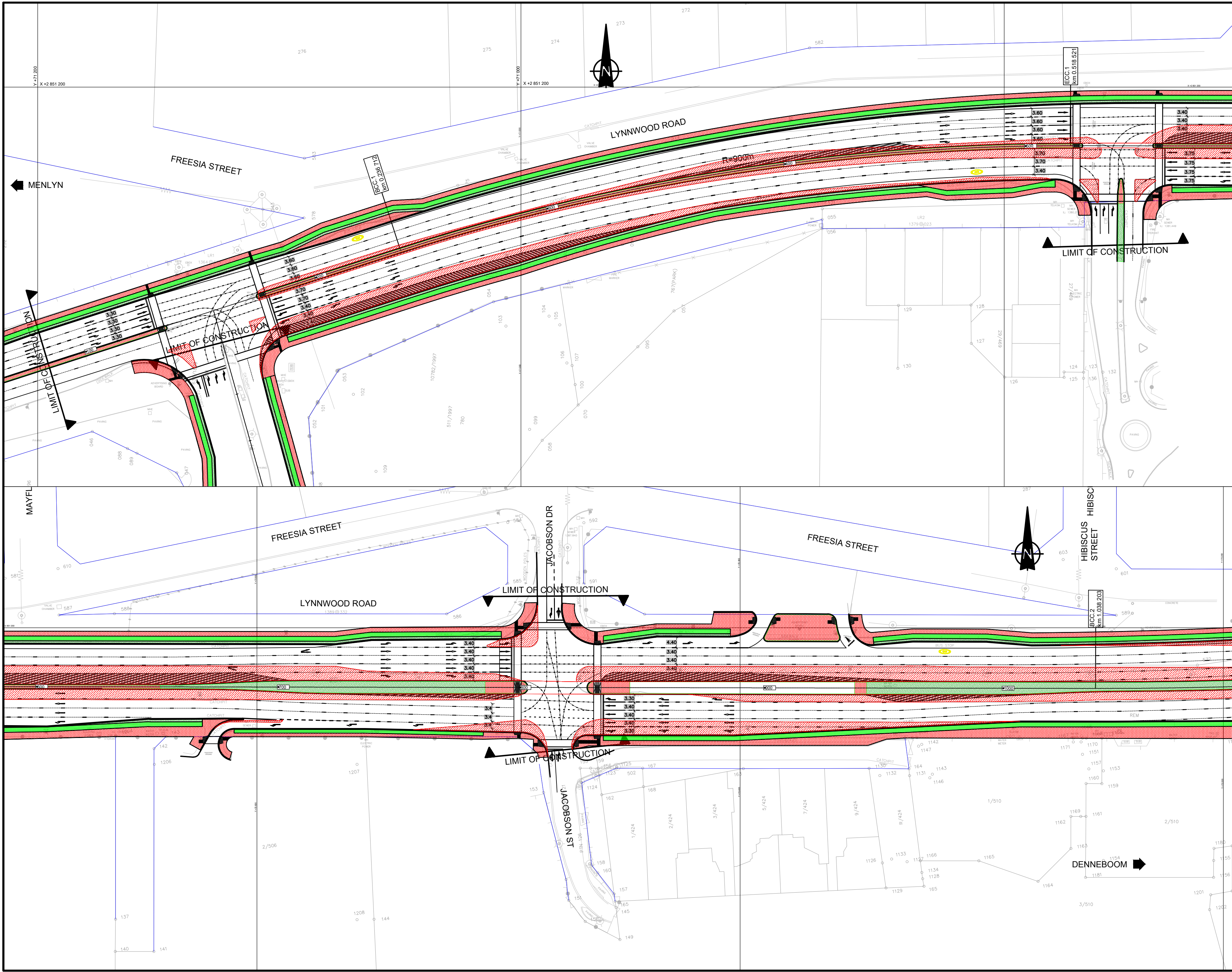
P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT:

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

**LYNNWOOD ROAD - WP2
TYPICAL CROSS SECTION**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J2145/02/TCS/001	SHEET NO. 1
ORIGINAL PAPER SIZE: A0	REVISION 1



NOTES AND SPECIFICATIONS

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LEGEND

- ROAD WIDENING
- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- TRT STATIONS
- TRT BARRIER KERB
- TRT LANE
- CADASTRAL BOUNDARY

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	21-02-24	CK	ISSUED FOR APPROVAL
2	01-07-24	CK	ISSUED FOR TENDER

PROJECT STATUS	
DESIGNED	DRAWN
JJ	JJ
CHECKED <td>DESIGNED</td>	DESIGNED
CK	CK

PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.

INSPECTOR OF WORKS (CITY OF TSHWANE)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.

BAHLAPHING CONSULTING

BC Bahlaphing consulting

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION

Ms P. I. Leluthane
EXECUTIVE DIRECTOR

P.O. BOX 1409
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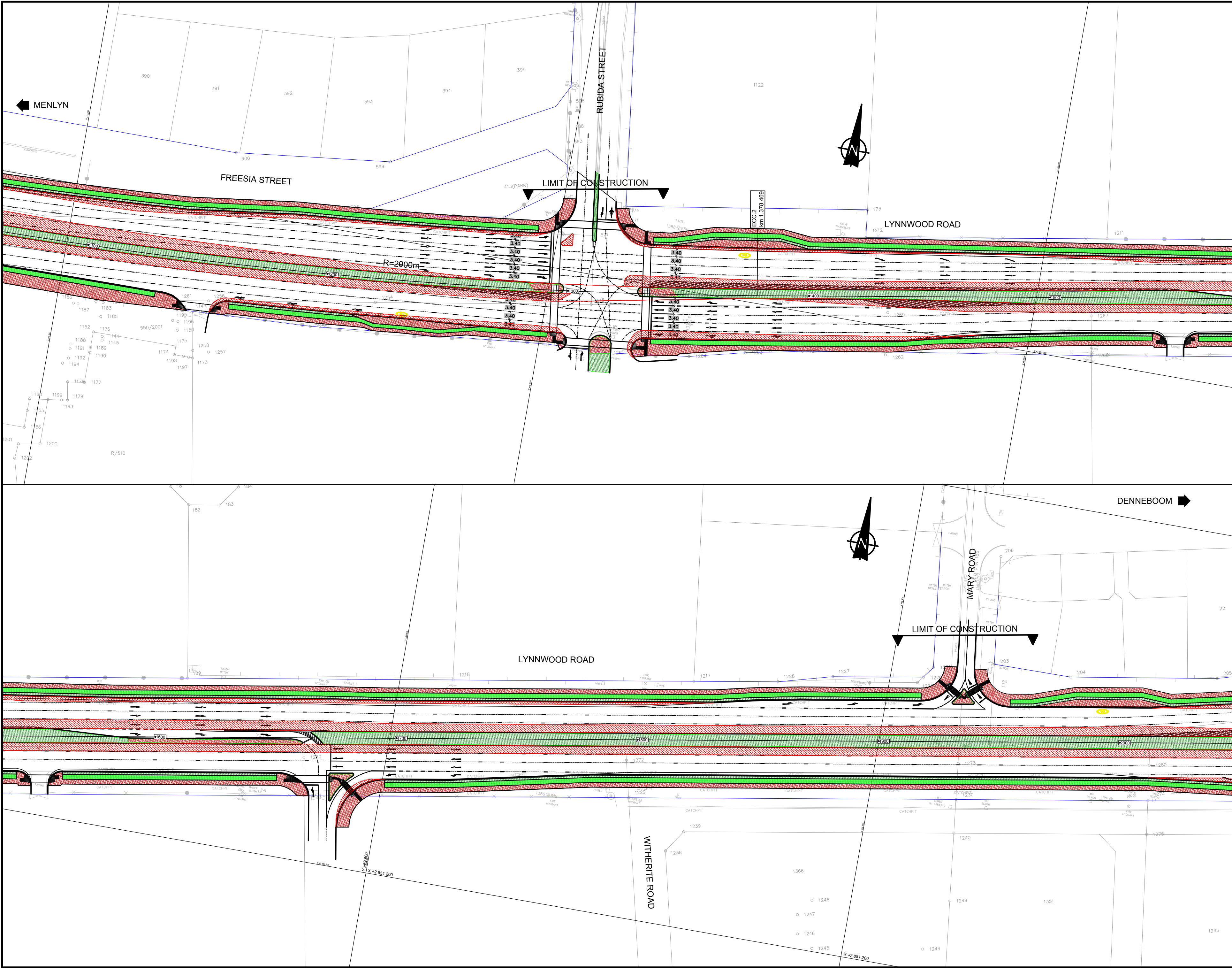
DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 1 OF 4**

CONTRACT NO. :	PROJECT NO. :

DATE :	SCALE :	ORIGINAL PAPER SIZE :
27/05/2022	1:500	A0

DRAWING NO. :	SHEET NO. :
J 2145/02/RM/001	1



NOTES AND SPECIFICATIONS

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LEGEND

ROAD WIDENING

PEDESTRIAN WALKWAY

CYCLE LANE

MEDIANS / ISLANDS

TRT STATIONS

TRT BARRIER KERB

TRT LANE

CADASTRAL BOUNDARY

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FILE
1	21-02-21	CW	ISSUED FOR APPROVAL	
2	01-07-24	CW	ISSUED FOR TENDER	

DESIGNED BY

DESIGN CHECKED BY

INFRASTRUCTURE TECHNICAL INFORMATION MANAGER

D.J. CHAMBERS

PROJECT STATUS

ISSUED FOR APPROVAL

ISSUED FOR TENDER

ISSUED FOR CONSTRUCTION

ISSUED FOR AS-BUILT

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

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BC

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Mr P. L. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
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DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING

LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 2 OF 4

CONTRACT NO. 1

PROJECT NO. 1

DATE: 27/05/2022

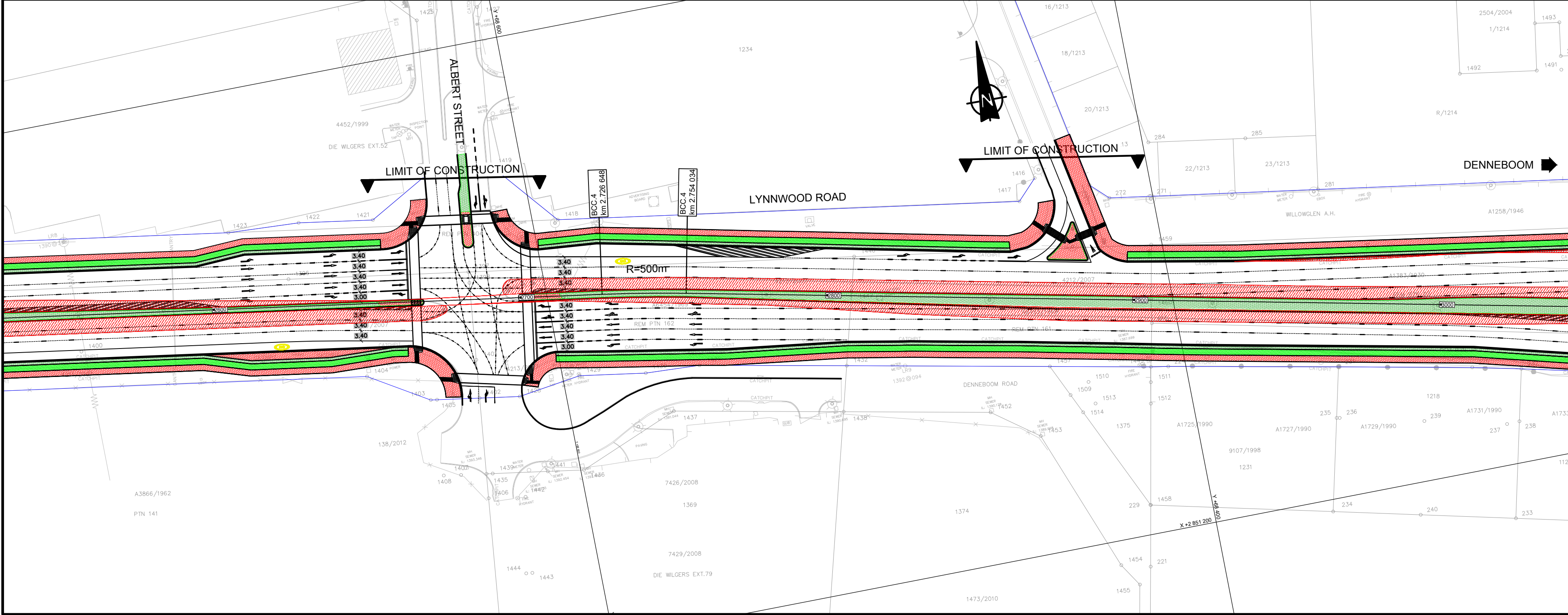
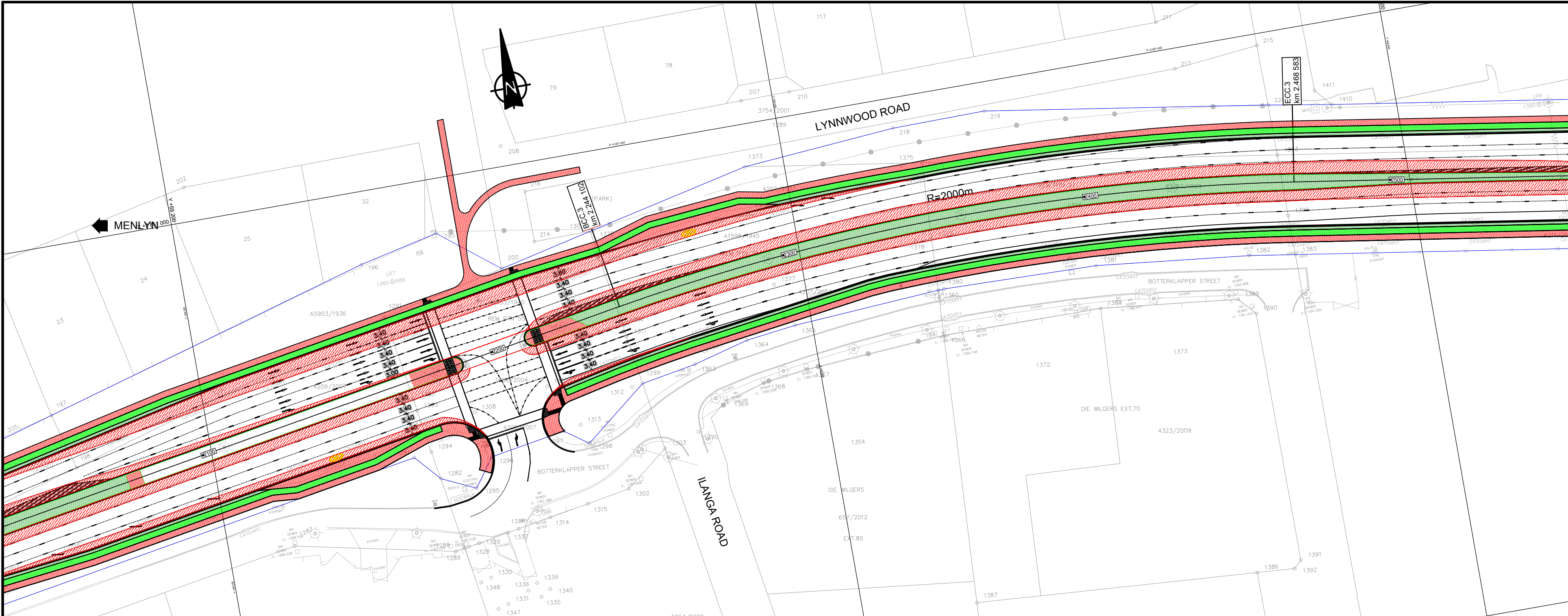
SCALE: 1:500

ORIGINAL PAPER SIZE: A0

DRAWING NO. J 2145/02/RM/002

SHEET NO. 3

REVISION



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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	01-07-21	CW	ISSUED FOR APPROVAL	1
2	01-07-21	CW	ISSUED FOR TENDER	1

DESIGNED		DRAWN	
AI	AI	AI	AI
DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT	
CW		D.J. CHAMBERS	

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CITY OF TSHWANE)
AI	AI

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
AI	AI	AI

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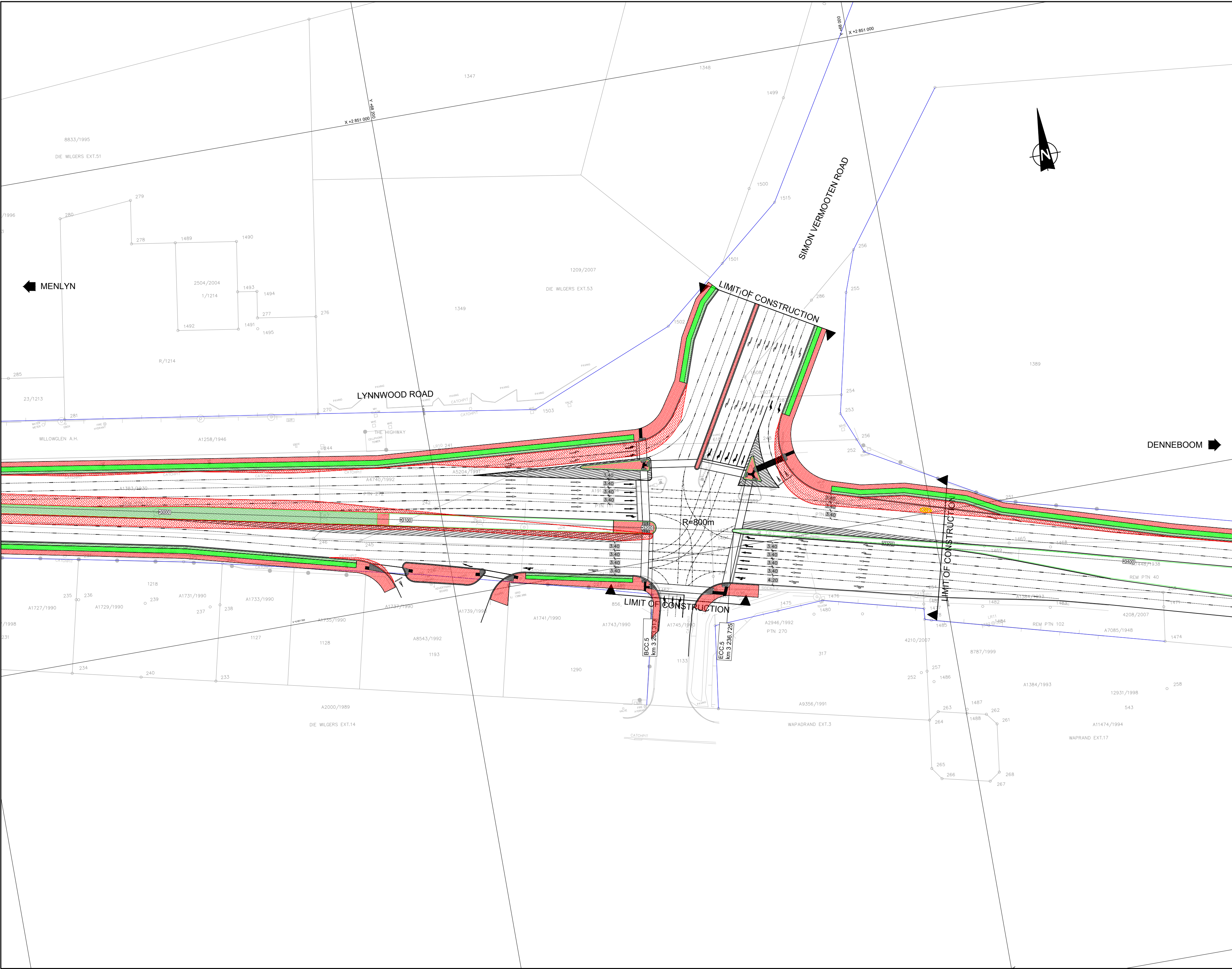
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DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 3 OF 4**

CONTRACT NO. :	PROJECT NO. :
2145/02RM/003	AI

DATE :	SCALE :	ORIGINAL PAPER SIZE :
27/05/2022	1:500	A0

DRAWING NO.	SHEET NO.	REVISION
J 2145/02RM/003	3	AI



NOTES AND SPECIFICATIONS

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AMENDMENTS		
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2	01-02-24	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
CHECKED BY	DW	INFRASTRUCTURE TECHNICAL INFORMATION	D.J. CHALMERS

PROJECT STATUS	
☒ DESIGN	☒ APPROVED FOR CONSTRUCTION
☐ PROJECT ENGINEER (CONSULTANT)	☐ PROJECT ENGINEER (CITY OF TSHWANE)

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
BAHLAPHING CONSULTING		

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306 Lois Avenue
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e: info@bahlaphing.com
www.bahlaphing.com

CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION

Ms P. I. Leluthane
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

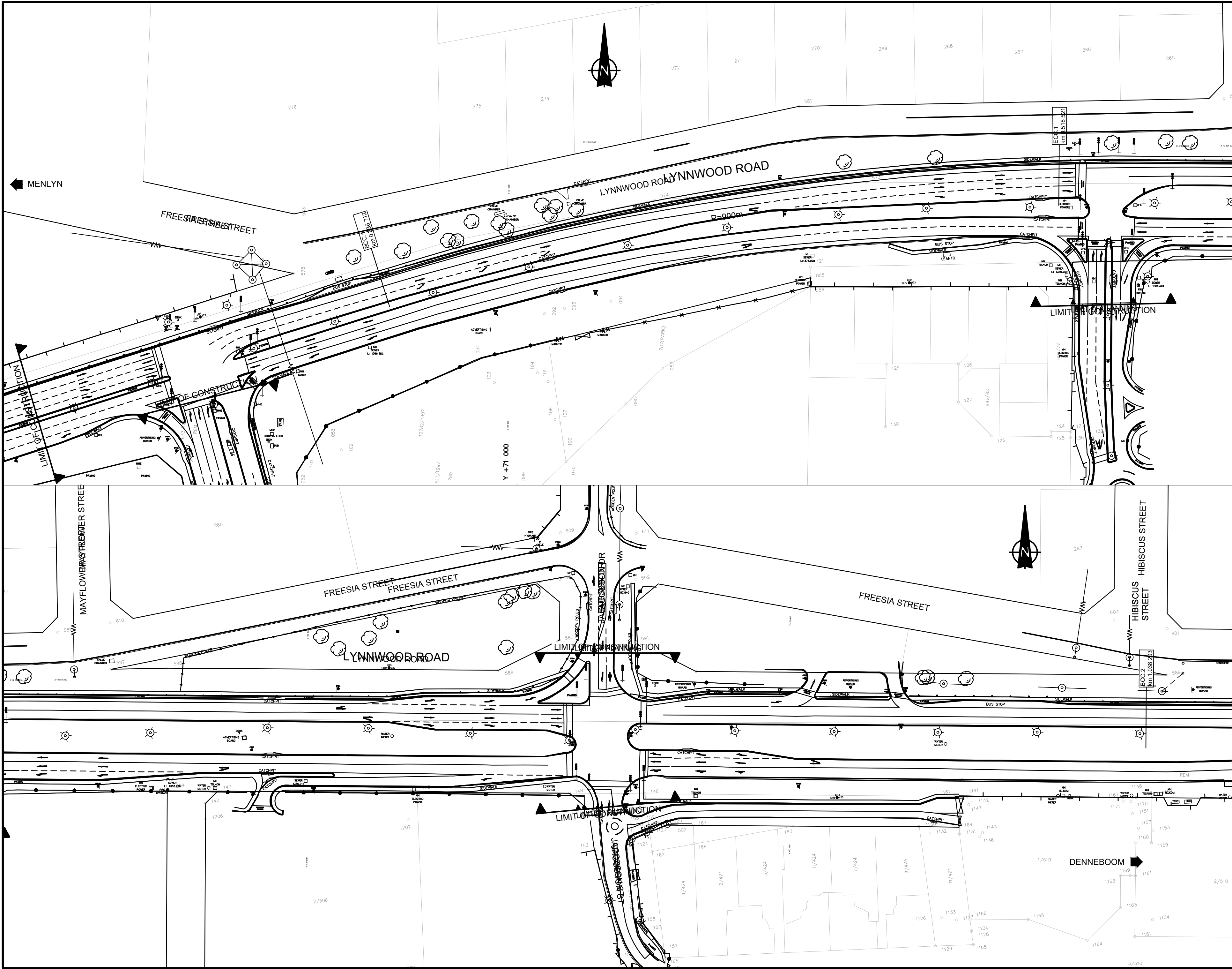
P.O. BOX 1409
PRETORIA 0001

DRAWING APPROVED BY DIVISIONAL HEAD Ms Imelda Tabonye	
SIGNATURE:	DATE:

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 4 OF 4**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : 1:500
DRAWING NO. J 2145/02/RM/004	SHEET NO. 3
	REVISION



NOTES AND SPECIFICATIONS

GENERAL

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.

2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)

3. DO NOT SCALE FROM THESE DRAWINGS.

4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.

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9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.

10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FWG.
1	22-05-24	OK	ISSUED FOR TENDER	
2	01-07-24	OK	ISSUED FOR TENDER	

DESIGNED

BY

DATE

DESIGN CHECKED BY

DATE

PROJECT ENGINEER (CONSULTANT)

DATE

INITIALS AND SURNAME

DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

DATE

INITIALS AND SURNAME

DATE

BAHLAPHING CONSULTING

BC

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CITY OF TSHWANE

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DIVISIONAL HEAD - RPTN DIVISION

Ms P. L. Leshomo
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No.:

PROJECT No.:

DATE:

27/05/2022

SCALE:

1:500

ORIGINAL PAPER SIZE:

A0

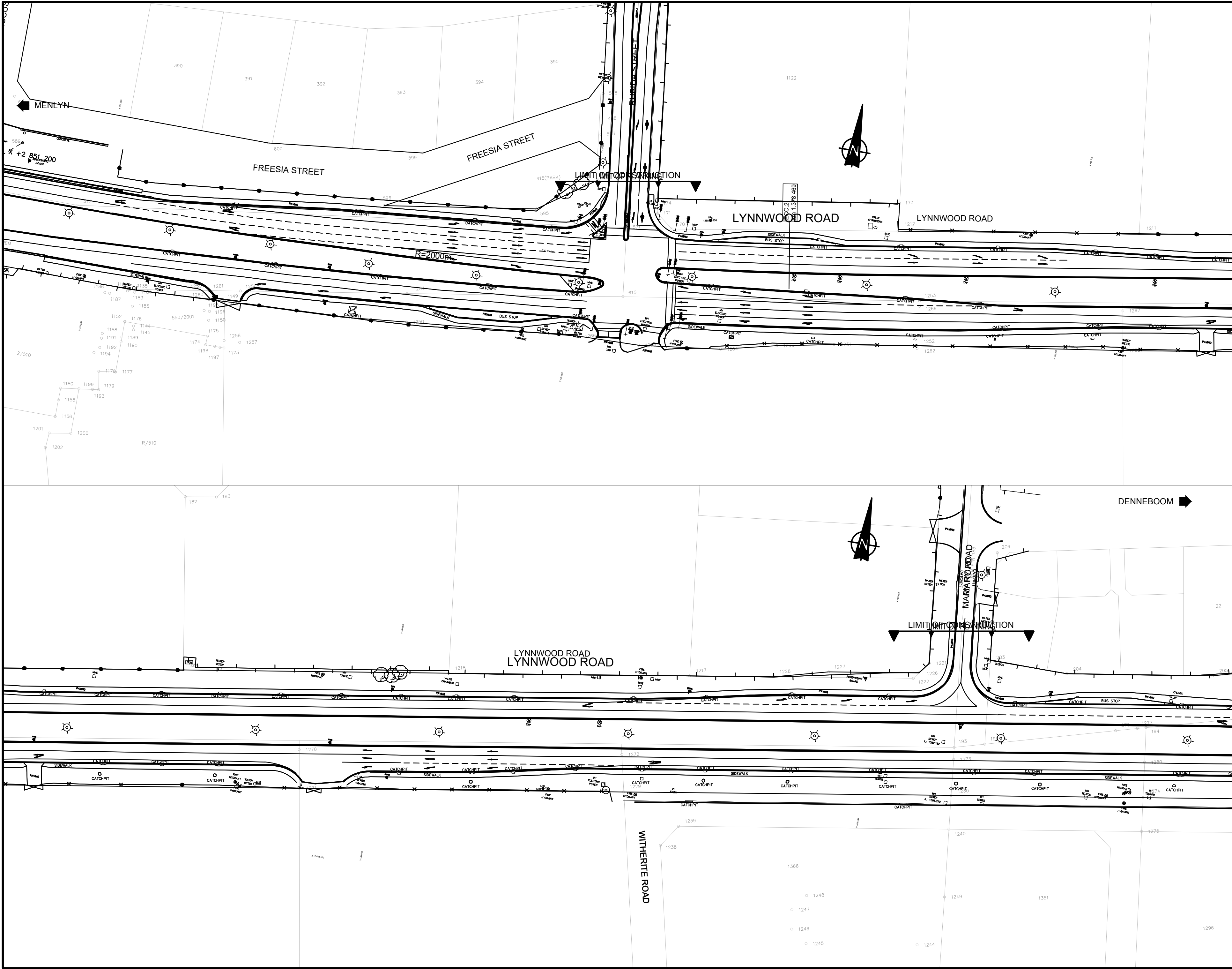
DRAWING NO.:

J 2145/02/S/001

SHEET NO.:

1

REVISION



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AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FWG
A	25-05-22	OR	ISSUED FOR TENDERS	
B	01-07-22	OR	ISSUED FOR TENDERS	

DESIGNED

BY

DATE

DESIGN CHECKED BY

DATE

PROJECT ENGINEER (CONSULTANT)

DATE

INITIALS AND SURNAME

DATE

INITIALS AND SURNAME

DATE

PROJECT STATUS

ON

ON

ON

ON

PROJECT ENGINEER (CONSULTANT)

DATE

INITIALS AND SURNAME

DATE

INITIALS AND SURNAME

DATE

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P.O. BOX 1409
PRETORIA 0001

Ms P. L. Lethabo
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No. :

PROJECT No. :

DATE :

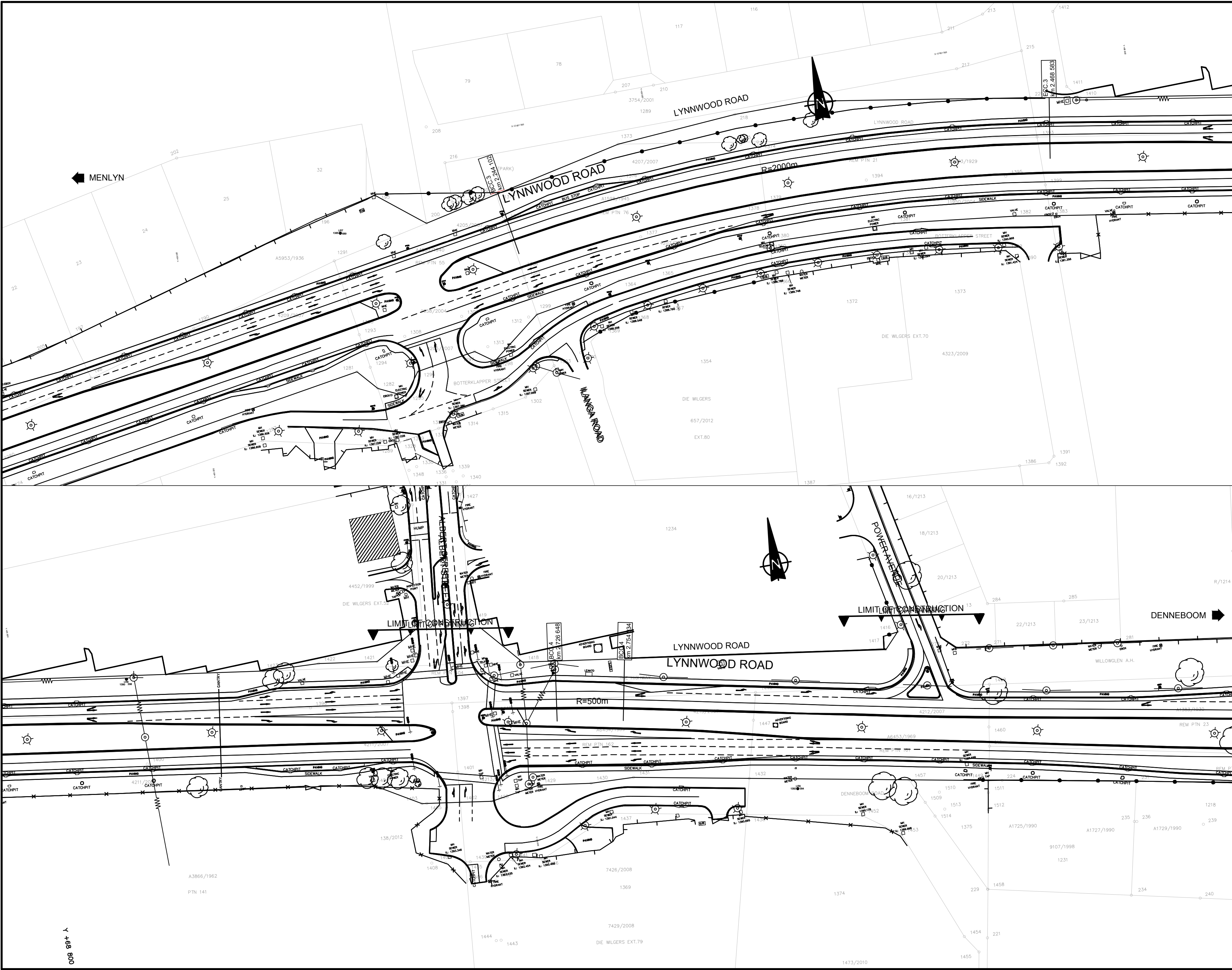
SCALE :

ORIGINAL PAPER SIZE:

DRAWING NO.

SHEET NO.

REVISION



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AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FWG
A	25-05-24	OR	ISSUED FOR TENDER	
B	01-07-24	OR	ISSUED FOR TENDER	

DESIGNED BY

DESIGN CHECKED BY

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

BAHLAPHING CONSULTING

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CITY OF TSHWANE

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P.O. BOX 1409
PRETORIA 0001

Ms P. I. Lethlamo
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No. :

PROJECT No. :

DATE :

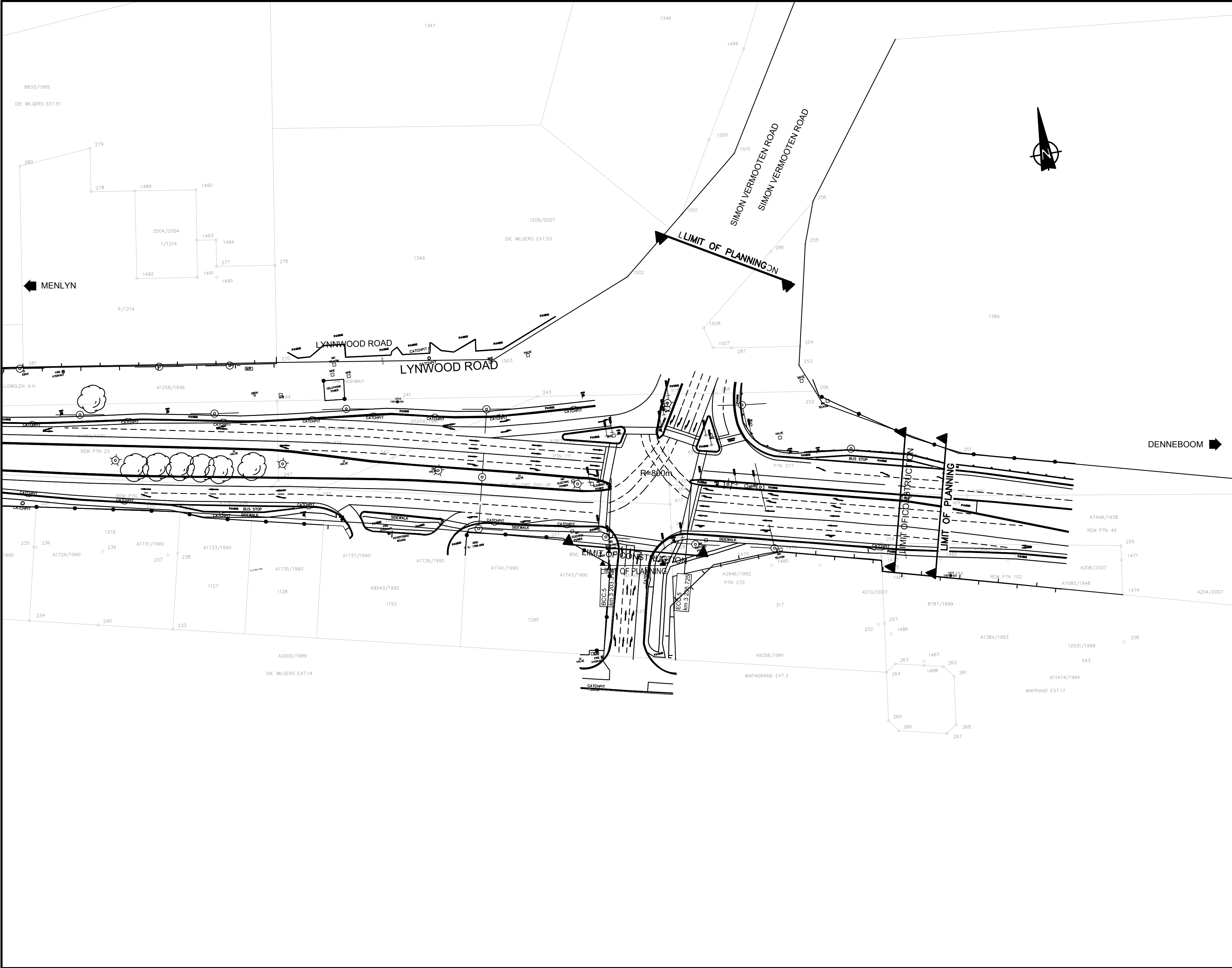
SCALE :

ORIGINAL PAPER SIZE:

DRAWING NO. :

SHEET NO. :

REVISION



NOTES AND SPECIFICATIONS

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AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FILE
1	22-02-20	OR	ISSUED FOR TENDERS	
2	01-02-20	OR	ISSUED FOR TENDERS	

DESIGNED

BY

DATE

DESIGN CHECKED BY

DATE

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

BAHLAPHING CONSULTING

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION

Ms P. L. Lethlamo
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No. :

PROJECT No. :

DATE :

27/05/2022

SCALE :

1:500

ORIGINAL PAPER SIZE:

A0

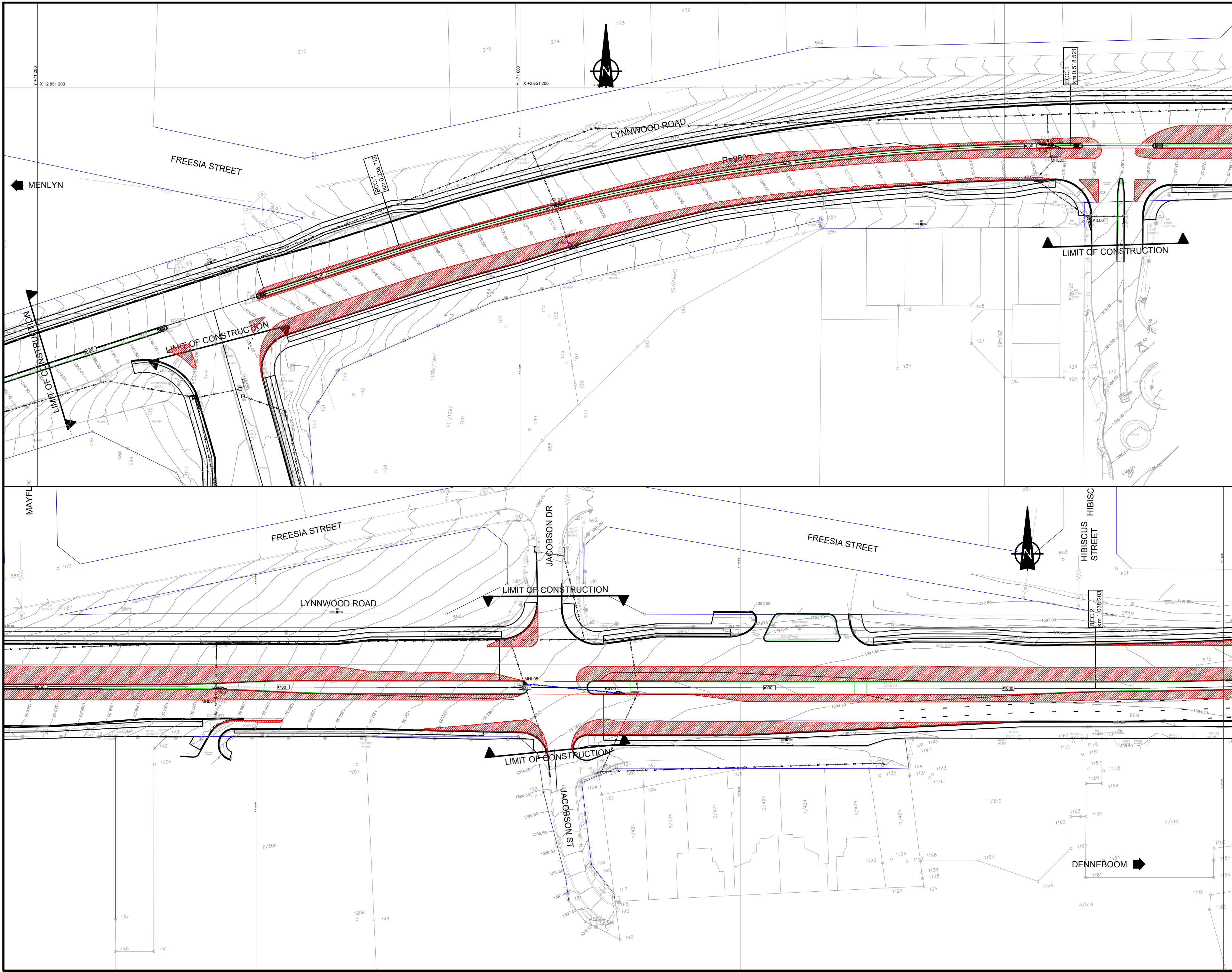
DRAWING NO.

J 2145/02/S/004

SHEET NO.

1

REVISION



NOTES AND SPECIFICATIONS

GENERAL

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LEGEND

- ROAD WIDENING
- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- EXISTING STORMWATER
- NEW STORMWATER
- EXISTING STORMWATER KERB INLET
- NEW STORMWATER KERB INLET

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	2022-02-24	CW	ISSUED FOR APPROVAL
2	2022-02-24	CW	ISSUED FOR TENDER

PROJECT STATUS	
DESIGNED	DRAWN
AI	AI
DESIGN CHECKED BY	INFRASTRUCTURE TECHNICAL INFORMATION
CW	

PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. No.
RESPECTOR OF WORKS (CITY OF TSHWANE) <td>DATE</td>	DATE

BAHLAPHING CONSULTING	
INITIALS AND SURNAME	SIGNATURE AND P. No.
	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION

Mr P. J. Lelutha
EXECUTIVE DIRECTOR

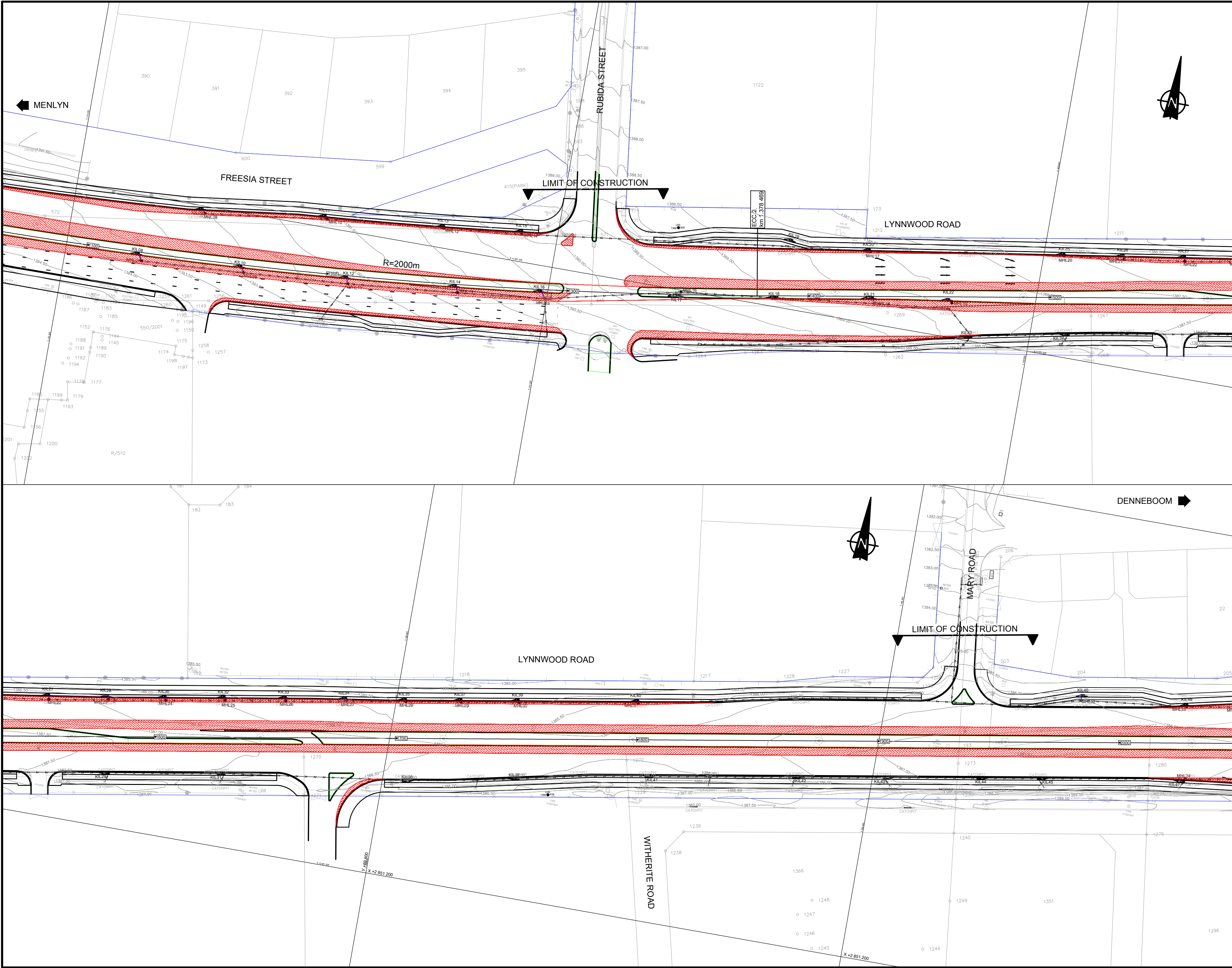
P.O. BOX 1409
PRETORIA
0001

P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 1 OF 4**

CONTRACT No. :		PROJECT No. :	
DATE :	SCALE :	ORIGINAL PAPER SIZE :	
27/05/2022	1:500	A0	
DRAWING NO. :	SHEET NO. :	REVISION	
J 2145/02/SW/001	1		



NOTES AND SPECIFICATIONS

GENERAL

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LEGEND

- ROAD WIDENING
- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- EXISTING STORMWATER
- NEW STORMWATER
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AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	25-05-24	CW	ISSUED FOR APPROVAL
2	01-07-24	CW	ISSUED FOR TENDER

DESIGNED BY	JJ	DRAWN BY	JJ
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

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CITY OF TSHWANE
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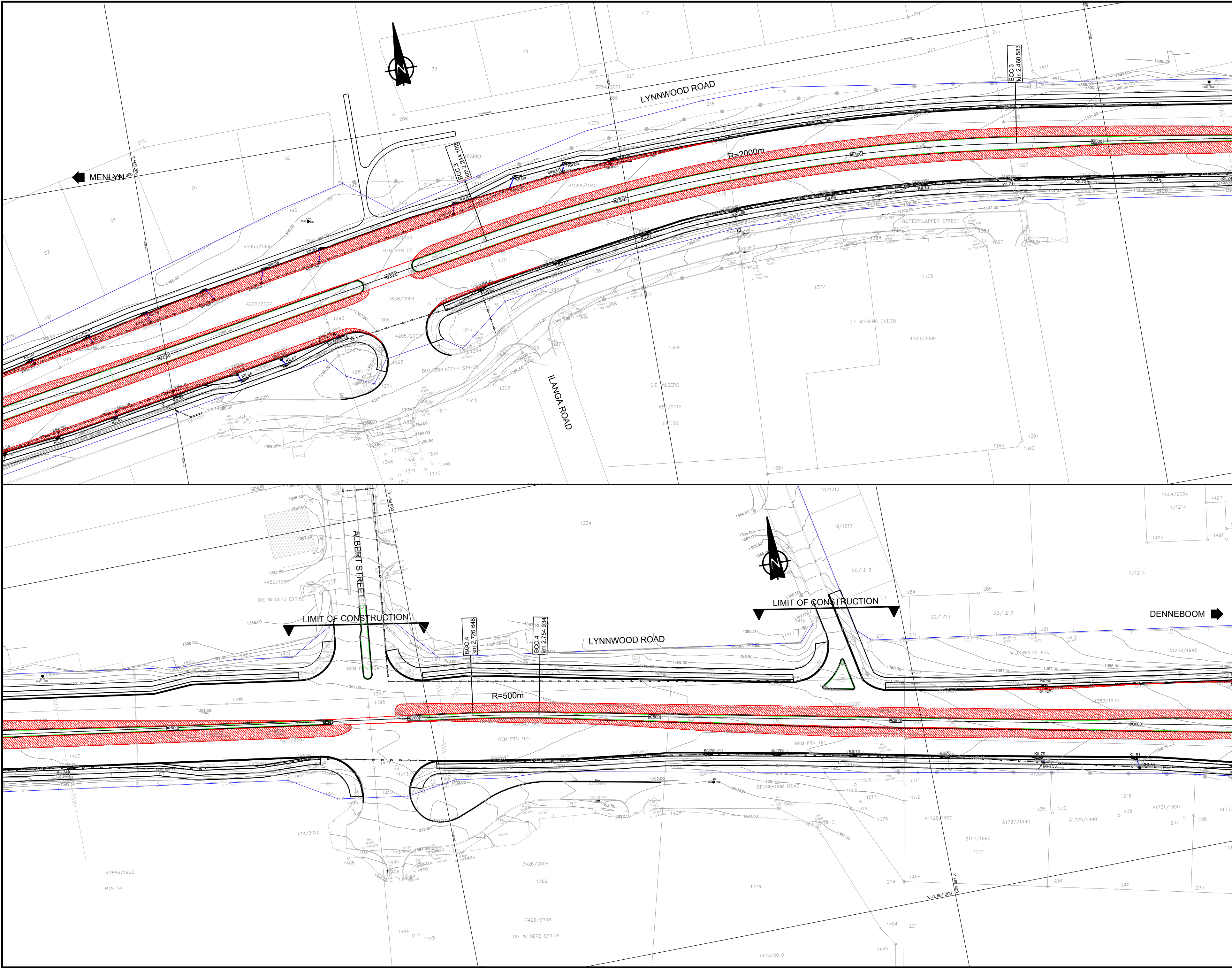
Ms P. L. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye
DATE

DESCRIPTION OF PROJECT
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING
LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 2 OF 4

CONTRACT NO. 1	PROJECT NO. 1
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/SW/002	SHEET NO. 2



NOTES AND SPECIFICATIONS

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LEGEND

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- PEDESTRIAN WALKWAY
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- EXISTING STORMWATER
- NEW STORMWATER
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AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
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2	01-07-24	CW	ISSUED FOR TENDER

DESIGNED		DRAWN	
AA	AA	AA	AA
DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
CW		CW	

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CITY OF TSHWANE)
AA	AA

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
AA	AA	AA

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
AA	AA	AA

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PRETORIA 0001

Mr P. L. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 3 OF 4**

CONTRACT NO. :	PROJECT NO. :
2145/02/LP/003	

DATE :	SCALE :	ORIGINAL PAPER SIZE :
27/05/2022	1:500	A0

DRAWING NO. :	SHEET NO. :
J 2145/02/LP/003	3



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LEGEND

ROAD WIDENING

PEDESTRIAN WALKWAY

CYCLE LANE

MEDIANS / ISLANDS

EXISTING STORMWATER

NEW STORMWATER

EXISTING STORMWATER KERB INLET

NEW STORMWATER KERB INLET

AMENDMENTS

NR.	DATE	APPROVED	DESCRIPTION	FW.
1	25-04-24	CH	ISSUED FOR APPROVAL	
2	01-07-24	CH	ISSUED FOR TENDER	

DESIGNED JJ

DATE

DRAWN JJ

DATE

DESIGN CHECKED BY CH

INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT

SIGNATURE

DATE

PROJECT STATUS

DESIGN

ISSUED FOR APPROVAL

ISSUED FOR TENDER

BLANK

PROJECT ENGINEER (CONSULTANT)

SIGNATURE AND P. No.

DATE

INITIALS AND SURNAME

RESPECTOR OF WORKS (CITY OF TSHWANE)

SIGNATURE AND P. No.

DATE

INITIALS AND SURNAME

RESPECTOR OF WORKS (CITY OF TSHWANE)

SIGNATURE AND P. No.

DATE

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BC

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306 Lois Avenue
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www.bahlaphing.com

CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. I. Lelaniwane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 4 OF 4

CONTRACT No. :

PROJECT No. :

DATE :
27/05/2022

SCALE :
1:500

ORIGINAL PAPER SIZE:
A0

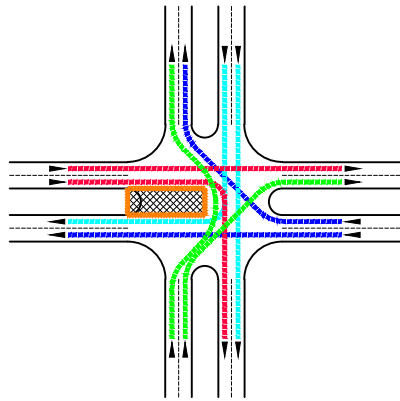
DRAWING NO.
J 2145/02/SW/004

SHEET NO.
4

REVISION

NOTE:
1. THE BRT LANE WILL BE CONSTRUCTED OVER A WEEKEND.
2. THE BRT LANE WILL BE CONSTRUCTED IN 2 STAGES.
3. YELLOW PLASTIC NEW JERSEY BARRIERS AND DELINEATORS WILL BE USED TO LIMIT TRAFFIC TO THE MOVEMENTS AS INDICATED.

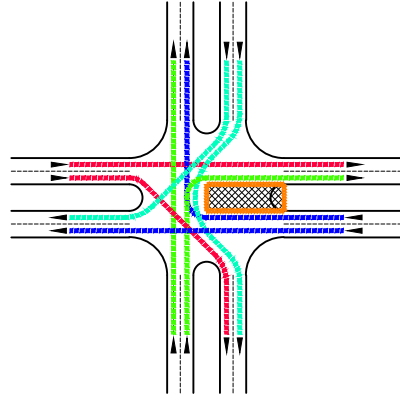
CONSTRUCTION AREA
YELLOW BARRIERS
DELINEATORS



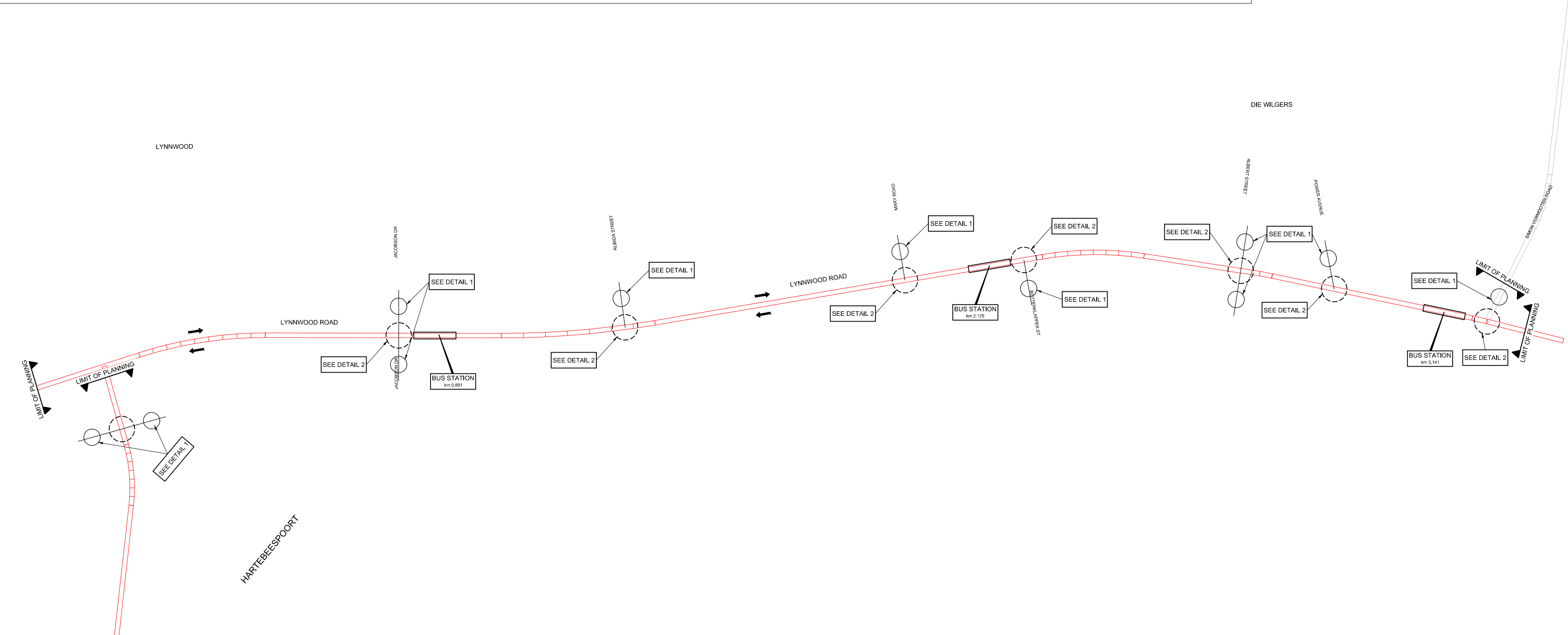
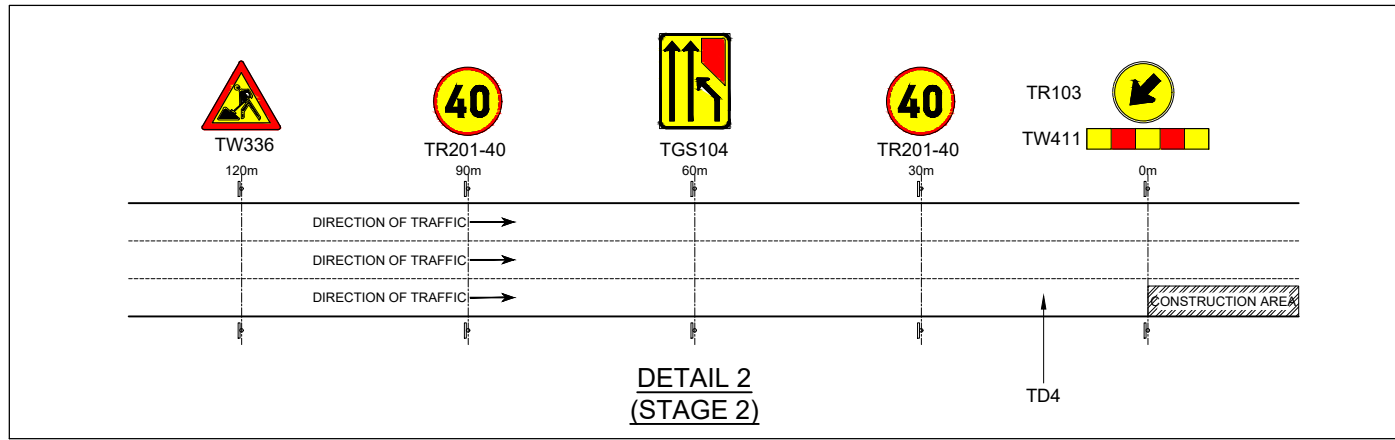
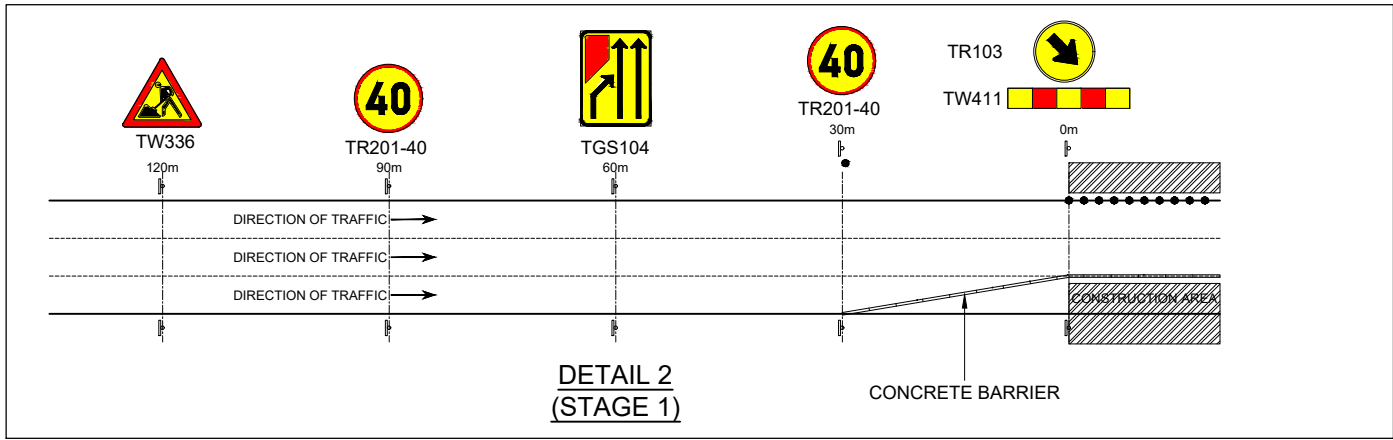
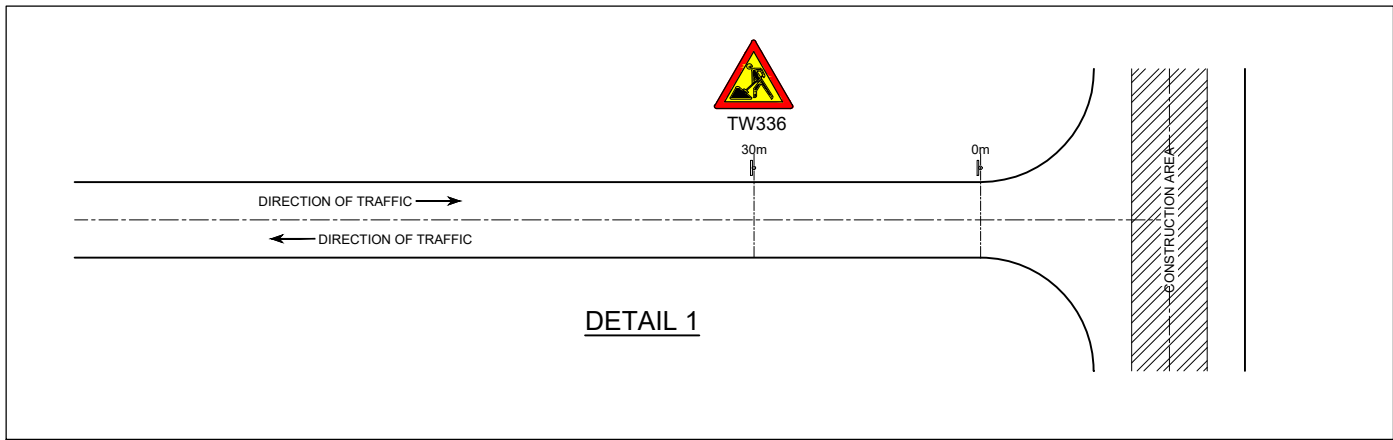
CONSTRUCTION OF BRT LANE AT INTERSECTION
STAGE 1

NOTE:
1. THE BRT LANE WILL BE CONSTRUCTED OVER A WEEKEND.
2. THE BRT LANE WILL BE CONSTRUCTED IN 2 STAGES.
3. YELLOW PLASTIC NEW JERSEY BARRIERS AND DELINEATORS WILL BE USED TO LIMIT TRAFFIC TO THE MOVEMENTS AS INDICATED.

CONSTRUCTION AREA
YELLOW BARRIERS
DELINEATORS



CONSTRUCTION OF BRT LANE AT INTERSECTION
STAGE 2



NOTES AND SPECIFICATIONS

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS
 6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. (IF APPLICABLE)
 7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
 8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-22	CW	ISSUED FOR APPROVAL
2	01-02-24	CW	ISSUED FOR TENDER

DESIGNED	DATE	BY	DATE	BY
DESIGN CHECKED BY	DATE	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT	

PROJECT STATUS			
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE

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P.O. BOX 1409
PRETORIA
0001

Mr P. J. Lelontane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

SIGNATURE:	DATE:

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
TRAFFIC ACCOMMODATION
SHEET 1 OF 2**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : 1:1250
DRAWING NO. J 2145/02/TA/001	SHEET NO. 1

TRT LANE CONSTRUCTION
WITH NO ROAD WIDENING

STAGE 1

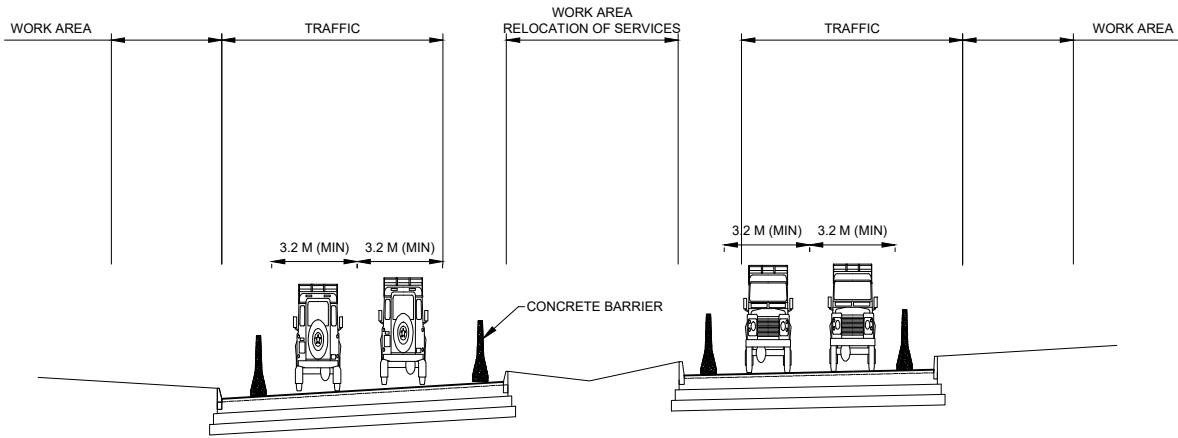
- 1.1 BARRICADE AREA FOR TRT CONSTRUCTION USING NEW JERSEY CONCRETE BARRIERS.
1.2 ACCOMMODATE TRAFFIC ON THE EXISTING ROAD.
1.3 RELOCATE SERVICES IN MEDIAN WHERE TRT LANE WILL BE CONSTRUCTED.

STAGE 2

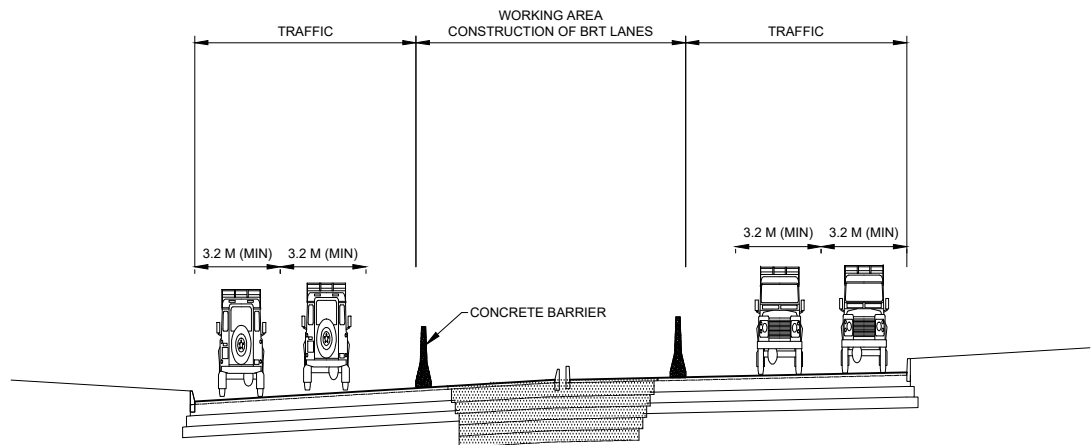
- 2.1 CONSTRUCT TRT LANE.
2.2 TRAFFIC IS STILL ACCOMMODATED ON THE EXISTING ROAD.

STAGE 3

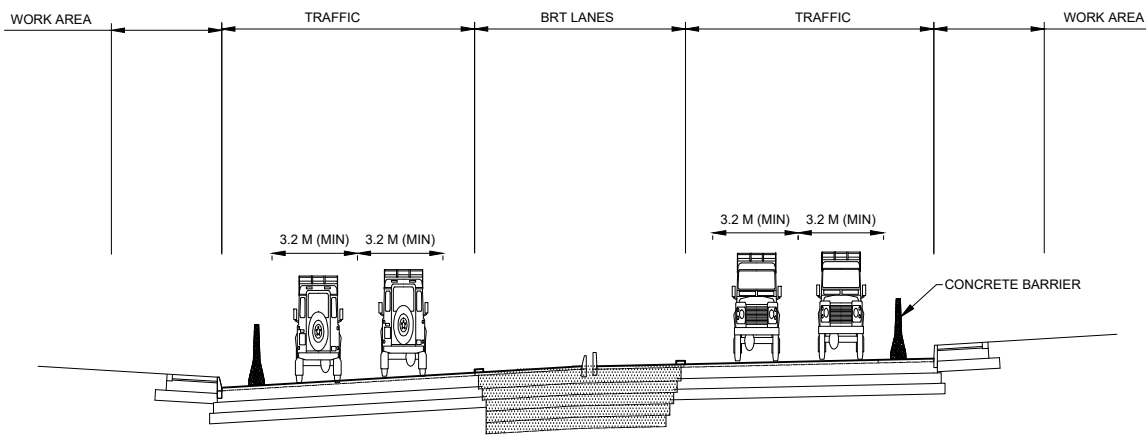
- 3.1 CONSTRUCT SIDEWALKS..
3.2 FINISH ROAD.



ACCOMODATION OF TRAFFIC STAGE 1 OF 3 (A-A)

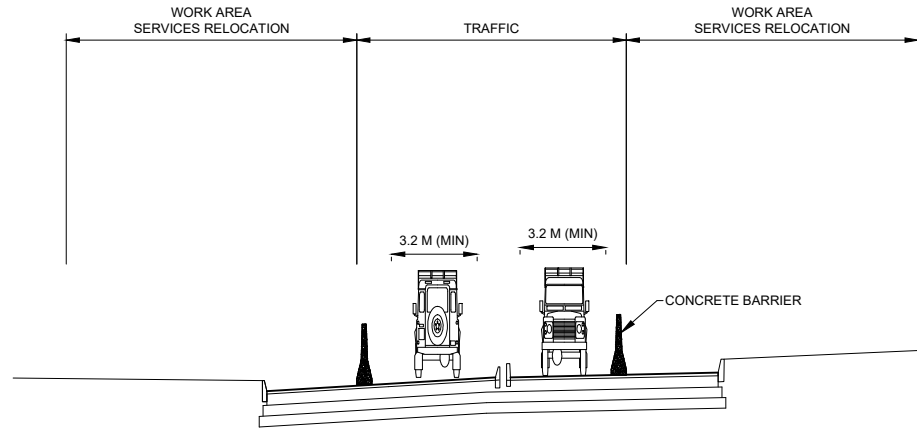


ACCOMODATION OF TRAFFIC STAGE 2 OF 3 (A-A)

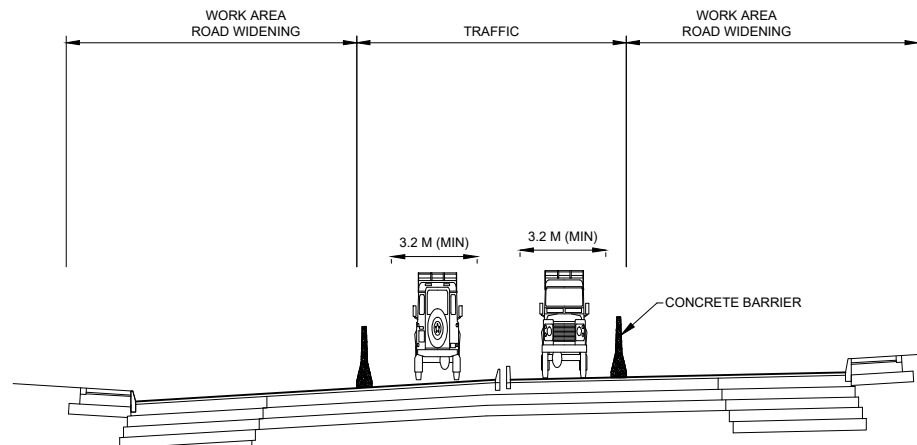


ACCOMODATION OF TRAFFIC STAGE 3 OF 3 (A-A)

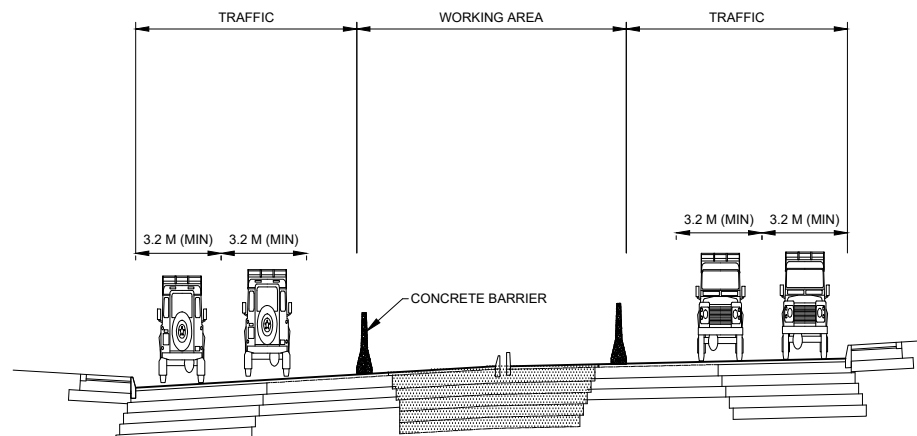
BRT LANE CONSTRUCTION WITH NEW KERBING
AND SIDEWALKS, BUT NO ROAD WIDENING



ACCOMODATION OF TRAFFIC STAGE 1 OF 3 (B-B)



ACCOMODATION OF TRAFFIC STAGE 2 OF 3 (B-B)



ACCOMODATION OF TRAFFIC STAGE 3 OF 3 (B-B)

BRT LANE CONSTRUCTION WITH NEW KERBING
AND SIDEWALKS, AND WITH ROAD WIDENING

BRT LAND CONSTRUCTION
INCLUDING ROAD WIDENING

STAGE 1

- 1.1 BARRICADE AREA FOR BRT CONSTRUCTION USING NEW JERSEY CONCRETE BARRIERS.
1.2 ACCOMMODATE TRAFFIC ON THE EXISTING ROAD.
1.3 RELOCATE SERVICES IN VERGE WHERE ROAD WIDENING IS REQUIRED.

STAGE 2

- 2.1 CONSTRUCT ROAD WIDENING.
2.2 TRAFFIC IS STILL ACCOMMODATED ON THE EXISTING ROAD.

STAGE 3

- 3.1 ACCOMMODATE TRAFFIC ON THE NEW ROAD WIDENING.
3.2 CONSTRUCT BRT LANE.
3.3 CONSTRUCT SIDEWALKS AND FINISH ROAD.

NOTES AND SPECIFICATIONS

GENERAL

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AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-21	CW	ISSUED FOR APPROVAL
2	01-07-21	CW	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
DATE		DATE	

PROJECT STATUS			
☒ DESIGN	☒ APPROVED FOR TENDER	☐ APPROVED FOR CONSTRUCTION	☐ AS BUILT
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE):		
INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION

P.O. BOX 1409
PRETORIA
0001

Ms P. I. Lelwani
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA
0001

SIGNATURE:	DATE:
------------	-------

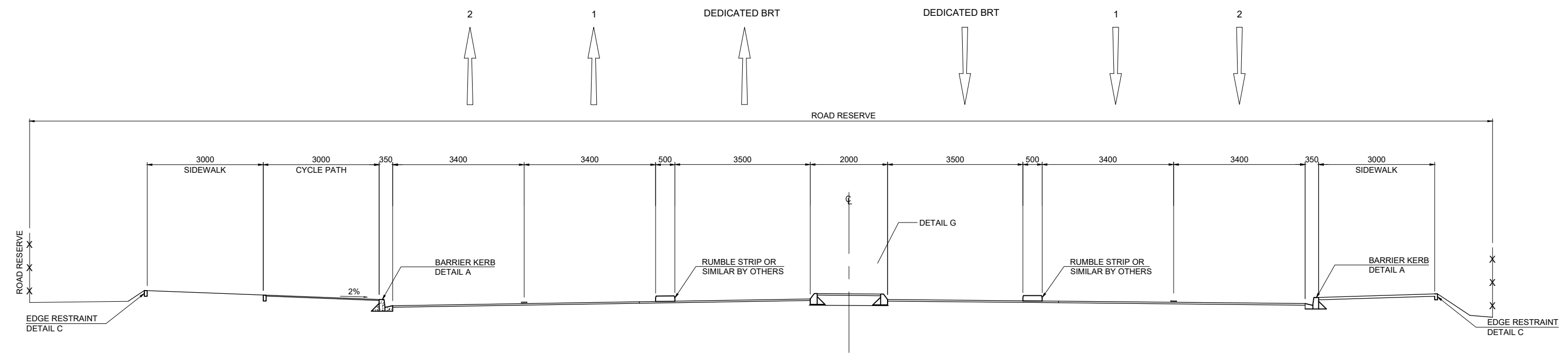
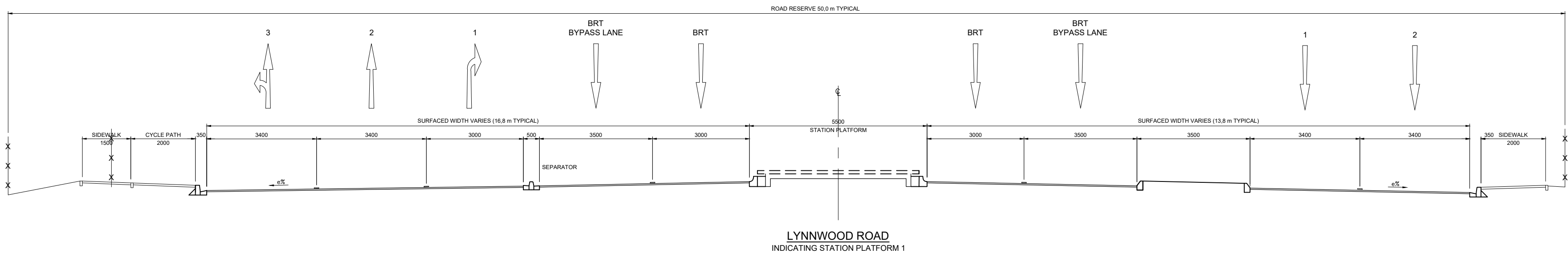
DESCRIPTION OF PROJECT:

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:

**LYNNWOOD ROAD - WP2
TRAFFIC ACCOMMODATION
SHEET 2 OF 2**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : 1:1250
DRAWING NO. J 2145/02/TA/002	SHEET NO. 1
ORIGINAL PAPER SIZE: A0	REVISION



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AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-20	OK	ISSUED FOR APPROVAL

DESIGNED		DRAWN	
DATE	BY	DATE	BY

DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
DATE	BY	DATE	BY

PROJECT STATUS	
DATE	STATUS

PROJECT ENGINEER (CONSULTANT)	
DATE	SIGNATURE AND P. No.

INSPECTOR OF WORKS (CITY OF TSHWANE)	
DATE	SIGNATURE AND P. No.

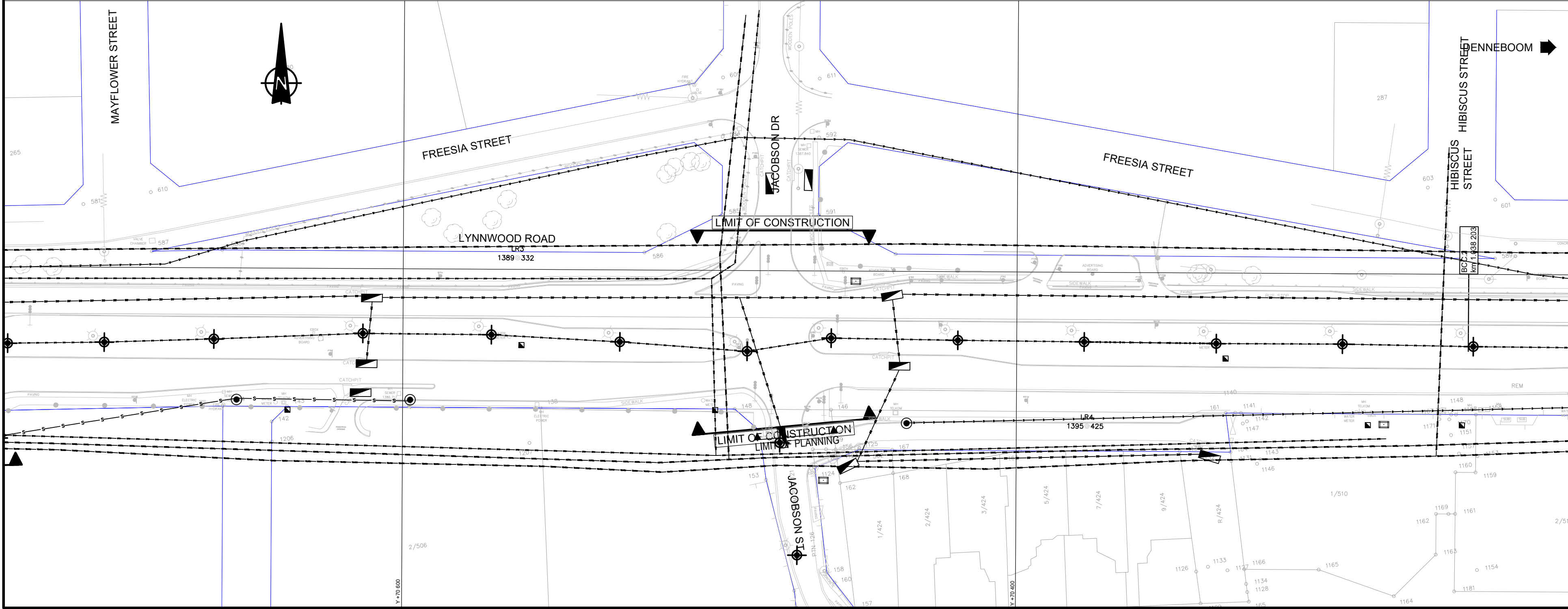
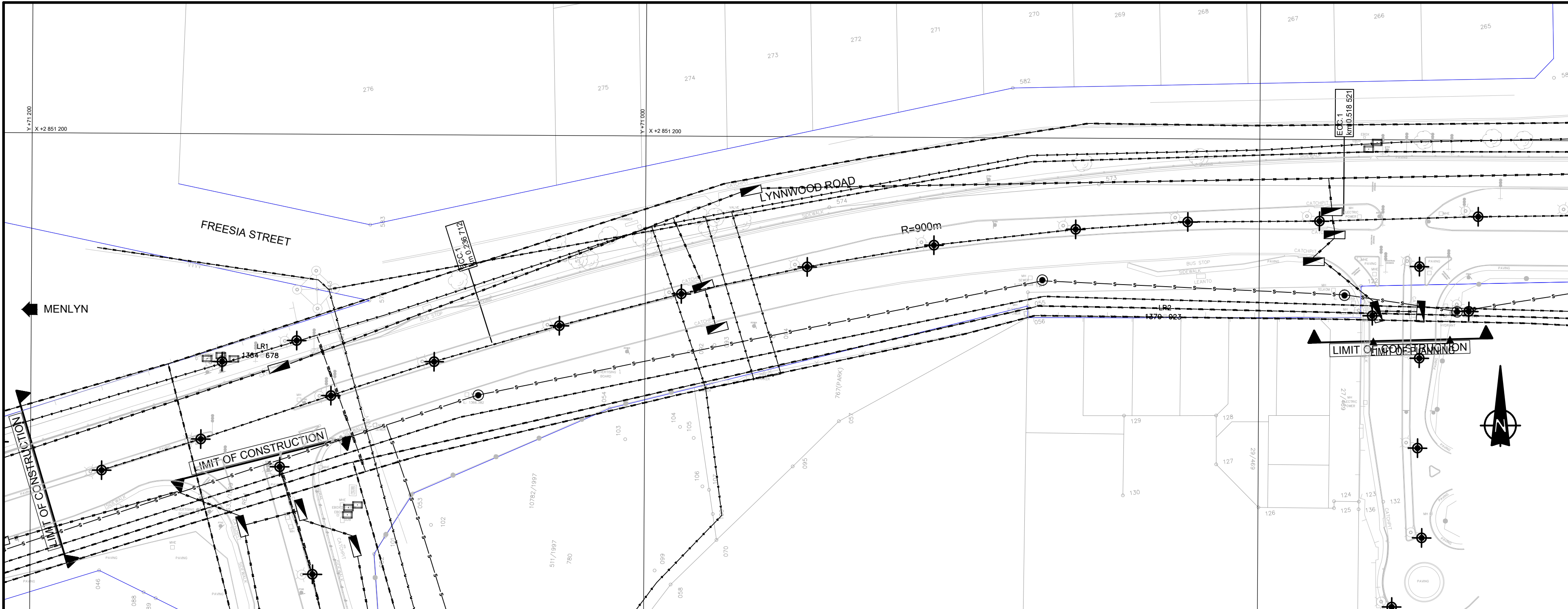
INITIALS AND SURNAME	
DATE	SIGNATURE AND P. No.

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CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
Ms Imelda Tabonye DIVISIONAL HEAD - RPTN DIVISION P.O. BOX 1409 PRETORIA 0001	Mr P. J. Lelwani EXECUTIVE DIRECTOR P.O. BOX 1409 PRETORIA 0001
DRAWING APPROVED BY DIVISIONAL HEAD Ms Imelda Tabonye	

DESCRIPTION OF PROJECT:	
BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	
DESCRIPTION OF DRAWING: LYNNWOOD ROAD - WP2 TYPICAL CROSS SECTION	

CONTRACT No. :		PROJECT No. :	
DATE :	SCALE :	ORIGINAL PAPER SIZE:	
27/05/2022	AS SHOWN	A0	
DRAWING NO. J 2145/02/TCS/001		SHEET NO. 1	



NOTES AND SPECIFICATIONS

GENERAL EXISTING SERVICES LEGEND

	WATER
	SEWER
	STORMWATER
	ESKOM CABLE
	TELKOM LINE
	DFA / CELL C
	CELL C CABLE
	POWERLINE
	HIGH VOLTAGE CABLES
	LOW VOLTAGE CABLES
	ELECTRICAL CABLE 1
	ELECTRICAL CABLE 2
	WIRE FENCE
	PALISADE FENCE
	ELECTRICAL FENCE
	SERVICE FEEDER CABLE (LIGHTING)
	TELKOM
	SERVICE FEEDER CABLE (MAINS)
	TRANSNET
	MTN
	NEOTEL
	MV CABLE, RF LOCATION
	MV CABLE, MF LOCATION

SYMBOL

	SEWER MANHOLE
	STORMWATER MANHOLE
	WATER METER
	MANHOLE (UNIDENTIFIED)
	TELKOM JP
	FIRE HYDRANT
	LAMP POST
	ELECTRIC BOX
	SPRINKLER
	WATER VALVE
	ROAD SIGN
	BENCH MARK
	KERB INLET

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	2020/04	CW	ISSUED FOR TENDER	1
2	2020/04	CW	ISSUED FOR TENDER	1

PROJECT STATUS

☒ DESIGN	☐ APPROVED FOR CONSTRUCTION
☐ PROJECT ENGINEER (CONSULTANT)	☐ APPROVED FOR CONSTRUCTION

INITIALS AND SURNAME

SIGNATURE AND P.L. No.

DATE

INITIALS AND SURNAME

SIGNATURE AND P.L. No.

DATE

BAHLAPHING CONSULTING

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Pretoria, 0181
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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA 0001

Mr P. I. Leshwene
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
WAYLEAVE SERVICES
SHEET 1 OF 3

CONTRACT No.:

PROJECT No.:

DATE:

SCALE:

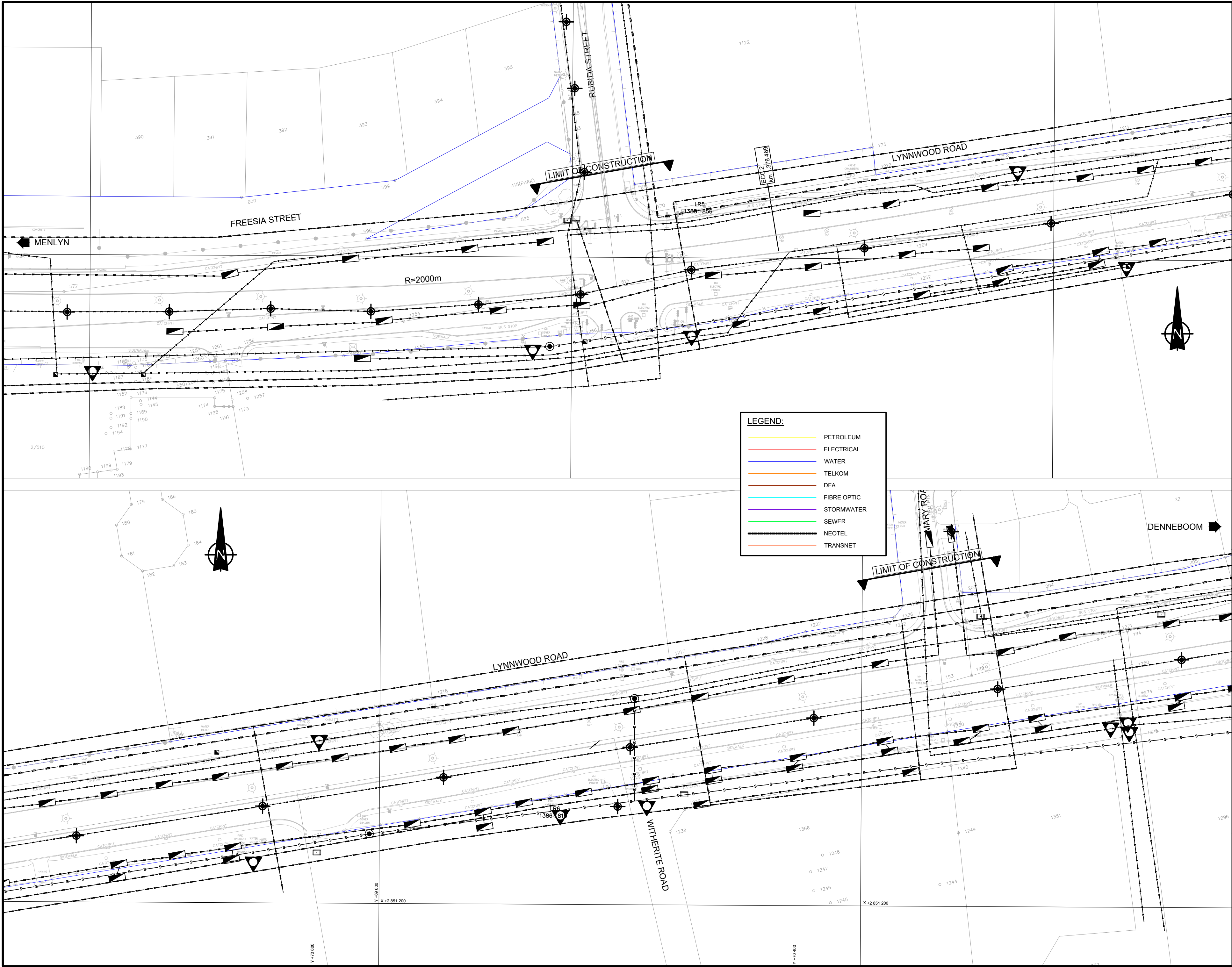
ORIGINAL PAPER SIZE:

DRAWING NO.:

SHEET NO.:

REVISION

J 2145/02/WLS/001



NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	27/05/2022	CW	ISSUED FOR TENDER	1
2	01/01/2023	CW	ISSUED FOR TENDER	1

DESIGNED		DRAWN	
CW	MS	CW	MS
DESIGN CHECKED BY: CW		NO. OF STRUCTURES: TECHNICAL INFORMATION MANAGEMENT	

PROJECT STATUS			
DESIGN	APPROVED	APPROVED	APPROVED
☒	☒	☒	☒
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P.L. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P.L. NO.	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshame
DIVISIONAL HEAD - RPTN DIVISION

Ms P. L. Lethemane
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

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PRETORIA 0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshame

SIGNATURE: DATE:

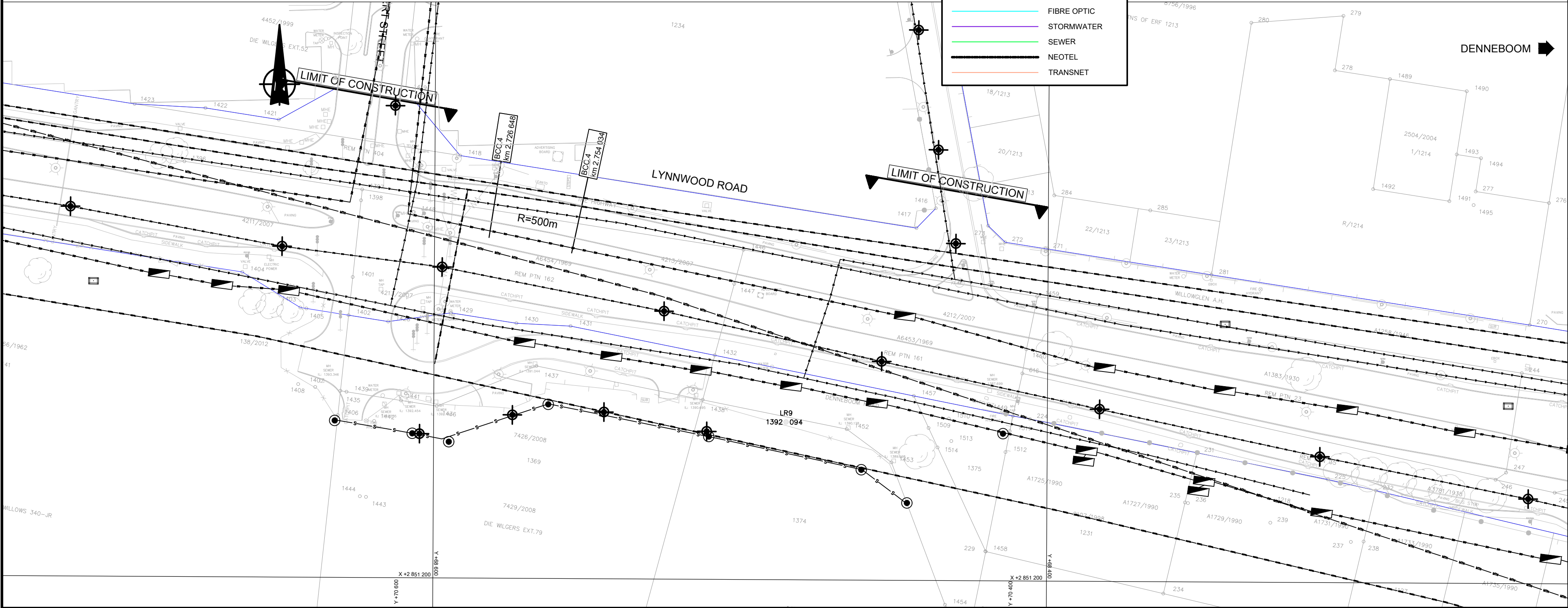
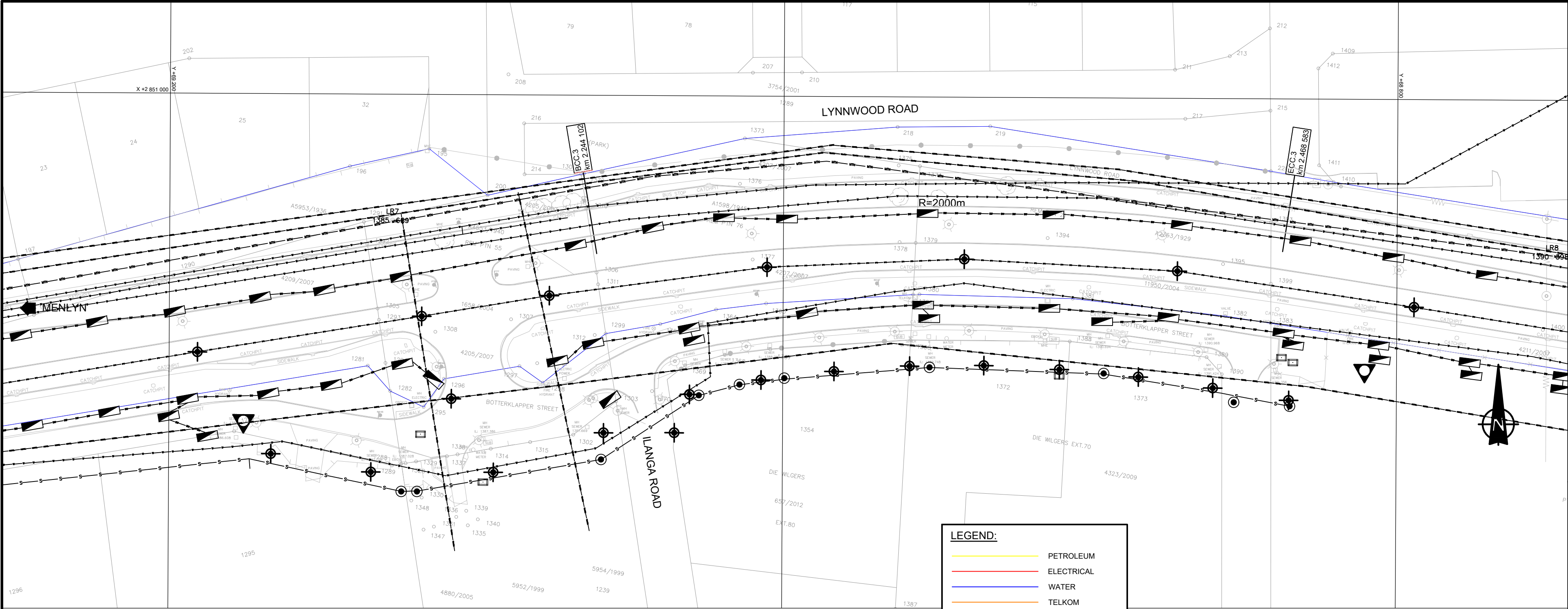
DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
WAYLEAVE SERVICES
SHEET 2 OF 3**

CONTRACT NO.:	PROJECT NO.:
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/WLS/002	SHEET NO. A0

ORIGINAL PAPER SIZE:
A0

REVISION



LEGEND:

- PETROLEUM
- ELECTRICAL
- WATER
- TELKOM
- DFA
- FIBRE OPTIC
- STORMWATER
- SEWER
- NEOTEL
- TRANSNET

NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	2022/05	OW	ISSUED FOR TENDER
2	2022/05	OW	ISSUED FOR TENDER
3	2022/05	OW	ISSUED FOR TENDER
4	2022/05	OW	ISSUED FOR TENDER
5	2022/05	OW	ISSUED FOR TENDER
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8	2022/05	OW	ISSUED FOR TENDER
9	2022/05	OW	ISSUED FOR TENDER
10	2022/05	OW	ISSUED FOR TENDER

DESIGNED BY: CW
CHECKED BY: CW
PROJECT ENGINEER (CONSULTANT): CW
INSPECTOR OF WORKS (CITY OF TSHWANE): CW
INITIALS AND SURNAME: _____
SIGNATURE AND P.L. No.: _____
DATE: _____

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT): CW
INSPECTOR OF WORKS (CITY OF TSHWANE): CW
INITIALS AND SURNAME: _____
SIGNATURE AND P.L. No.: _____
DATE: _____

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

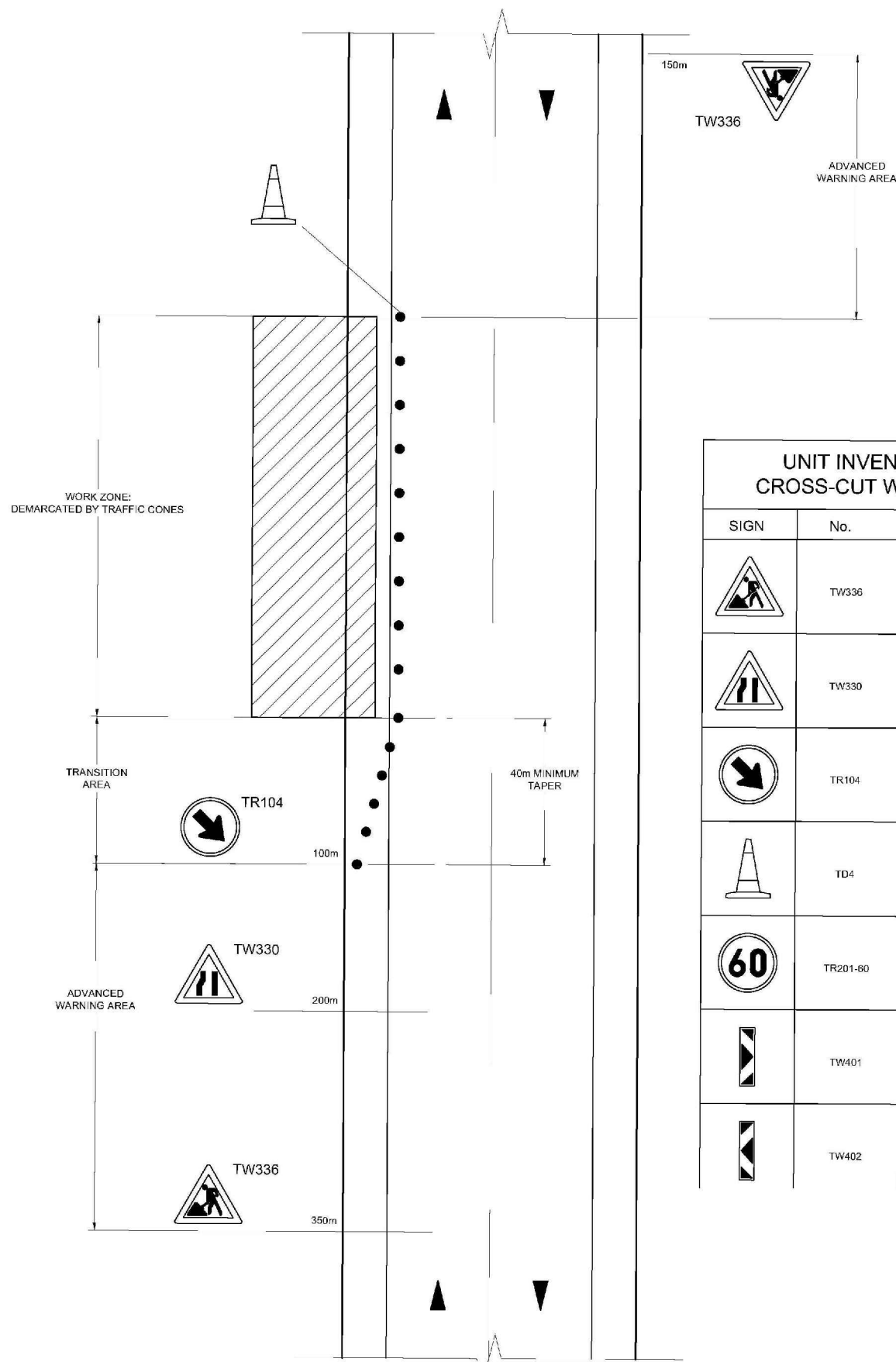
Ms Imelda Tshenye
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Ms P. L. Leshane
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P.O. BOX 1409
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DESCRIPTION OF PROJECT:
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

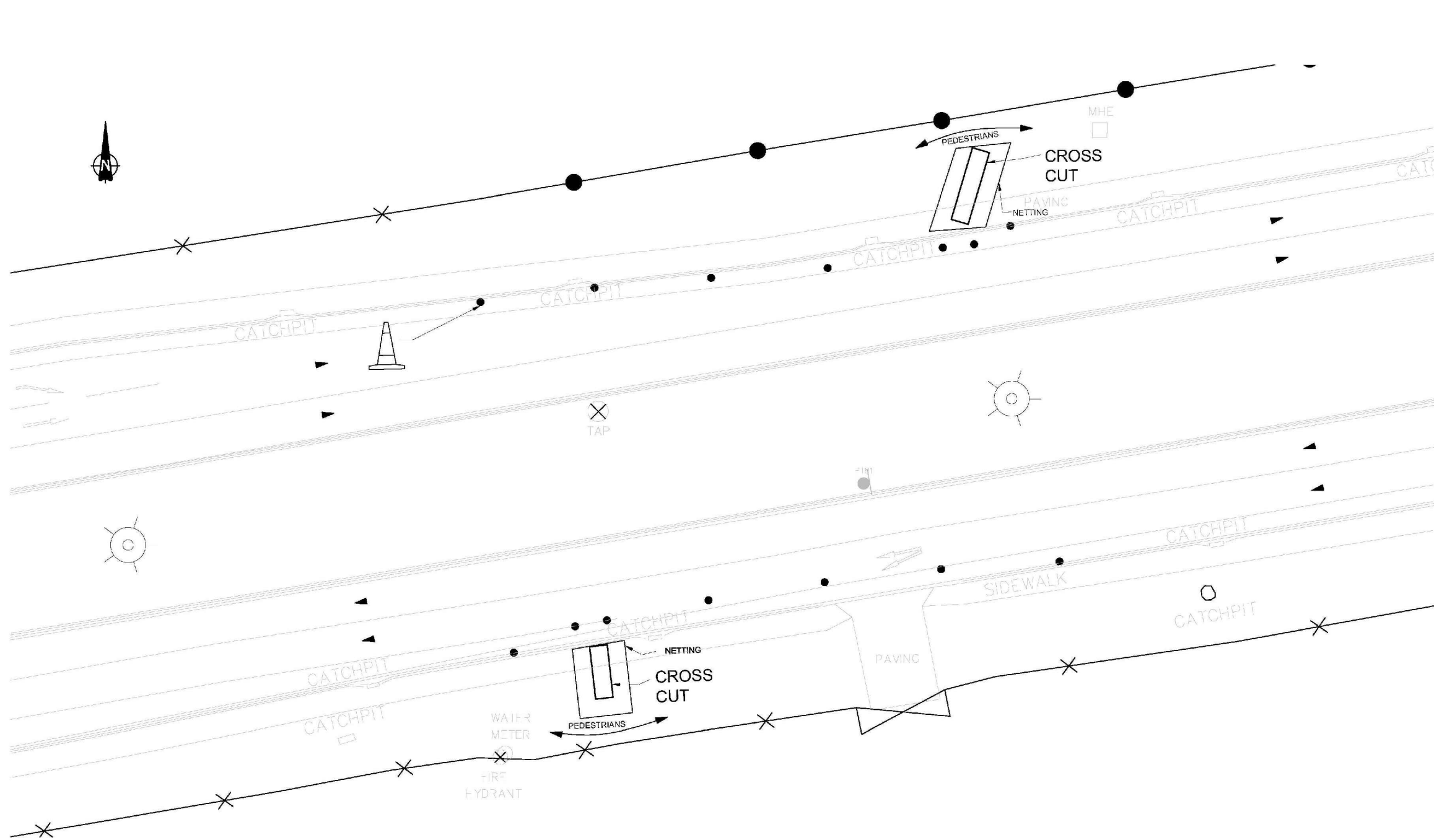
DESCRIPTION OF DRAWING:
LYNNWOOD ROAD - WP2
WAYLEAVE SERVICES
SHEET 3 OF 4

CONTRACT No.: _____ PROJECT No.: _____
DATE: 27/05/2022 SCALE: 1:500 ORIGINAL PAPER SIZE: A0
DRAWING NO.: J 2145/02/WLS/003 SHEET NO.: _____ REVISION: _____



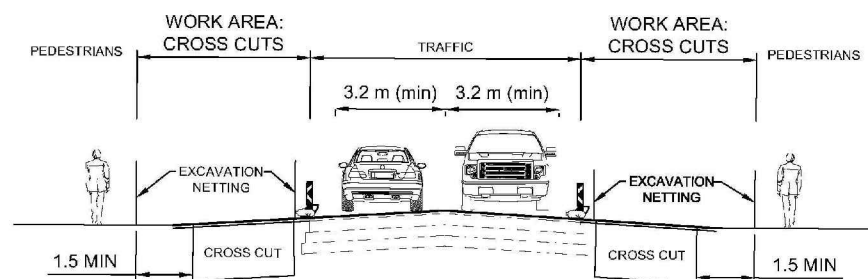
SCHEMATIC LAYOUT FOR SHORT TERM WORKS ON THE SHOULDER
SCALE: NTS

SIGN	No.	SIZE (mm)	QTY
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	TW330	1200	1
	TR104	1200 Ø	1
	TD4	450	15
	TR201-80	1200 Ø	2
	TW401	600	
	TW402	600	

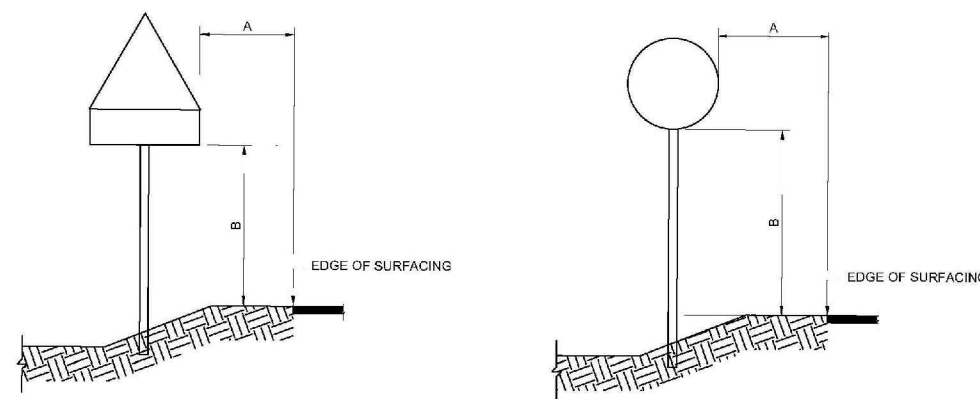


SITE-SPECIFIC PLAN OF CROSS CUT
SCALE: 1:200

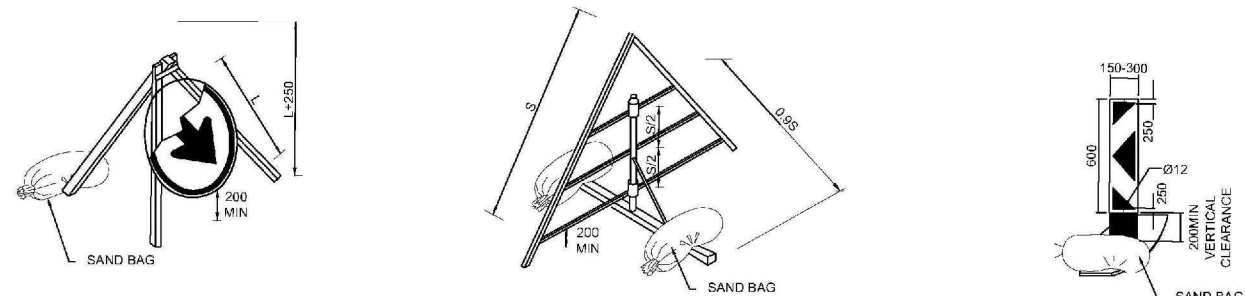
BASIC MINIMUM CLEARANCE	POINT	DISTANCE (mm)
A		1200
B		750



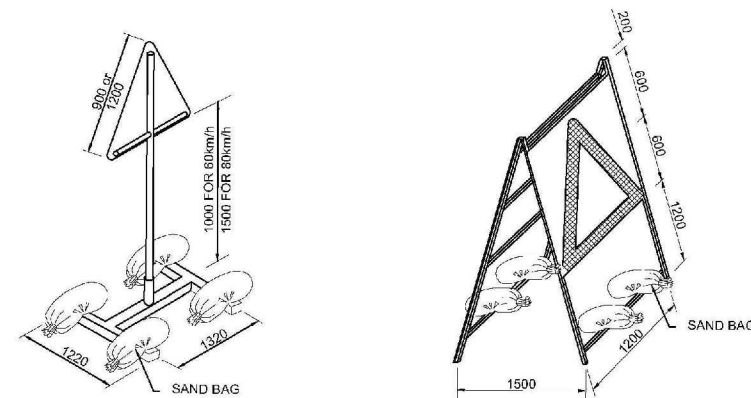
TYPICAL CROSS SECTION OF TRAFFIC ACCOMMODATION
SCALE: NTS



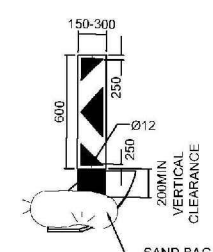
MINIMUM CLEARANCES FOR SIGNS ON POLES
SCALE: NTS



MOVABLE SIGN SUPPORT DETAILS
SCALE: NTS



LARGER MOVABLE SIGN SUPPORT DETAILS
SCALE: NTS



DELINEATOR
SCALE: NTS

NOTES AND SPECIFICATIONS

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- THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
- FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS		
NO.	DATE	DESCRIPTION
1	2022-05-24	ISSUED FOR TENDER
2	2022-05-24	ISSUED FOR TENDER

DESIGNED	APPROVED
JJ	JJ
DESIGN CHECKED BY	INFRASTRUCTURE TECHNICAL INFORMATION
CM	MANAGEMENT

PROJECT STATUS	
DESIGN	CONSTRUCTION
OPERATION	MAINTENANCE

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD – RPTN DIVISION

Mr P. L. Letsohane
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

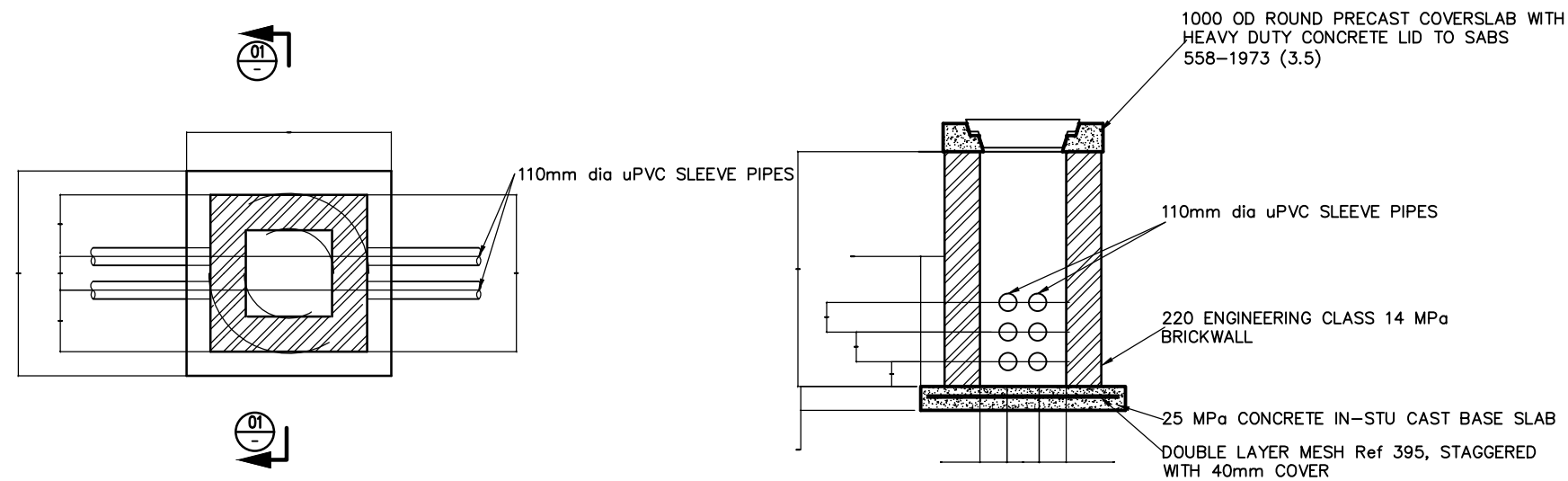
P.O. BOX 1409
PRETORIA 0001

DATE	DATE
27/05/2022	

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

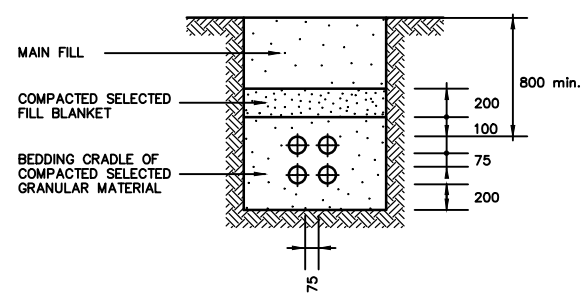
DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD – WP2
CROSS-CUT
TRAFFIC MANAGEMENT PLAN**

CONTRACT No. :	PROJECT No. :
DATE :	SCALE :
27/05/2022	AS SHOWN
DRAWING NO. :	SHEET NO. :
J 2145/02/TM/001	AD

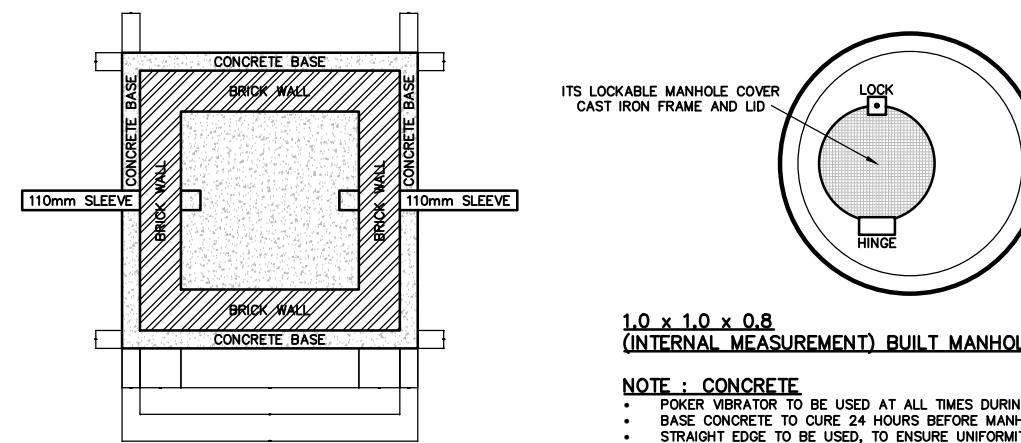


PLAN ON CABLE MANHOLE
SCALE : 1:20

SECTION 01-01
SCALE : 1:20



SLEEVE DETAIL
CLASS 'B' BEDDING (FLEXIBLE PIPES).
SCALE 1:50



1.0 x 1.0 x 0.8 (INTERNAL MEASUREMENT) BUILT MANHOLE

NOTE : CONCRETE

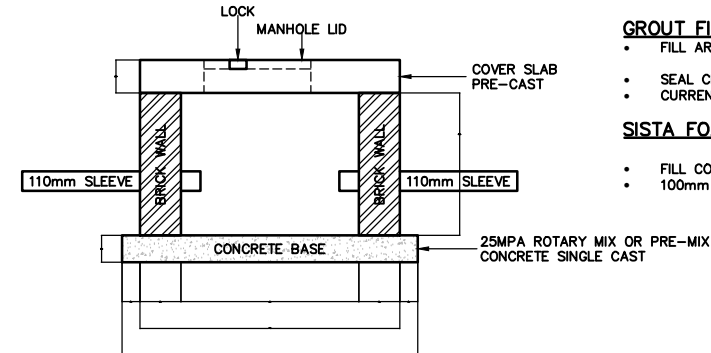
- POKER VIBRATOR TO BE USED AT ALL TIMES DURING POURING CONCRETE.
- BASE CONCRETE TO CURE 24 HOURS BEFORE MANHOLE TOP CAN BE PLACED
- STRAIGHT EDGE TO BE USED, TO ENSURE UNIFORMITY.
- MANHOLE TO BE CLEANED AFTER COMPLETION.
- MANHOLE TO BE BUILT WITH FACE BRICKS.

GROUT FILL

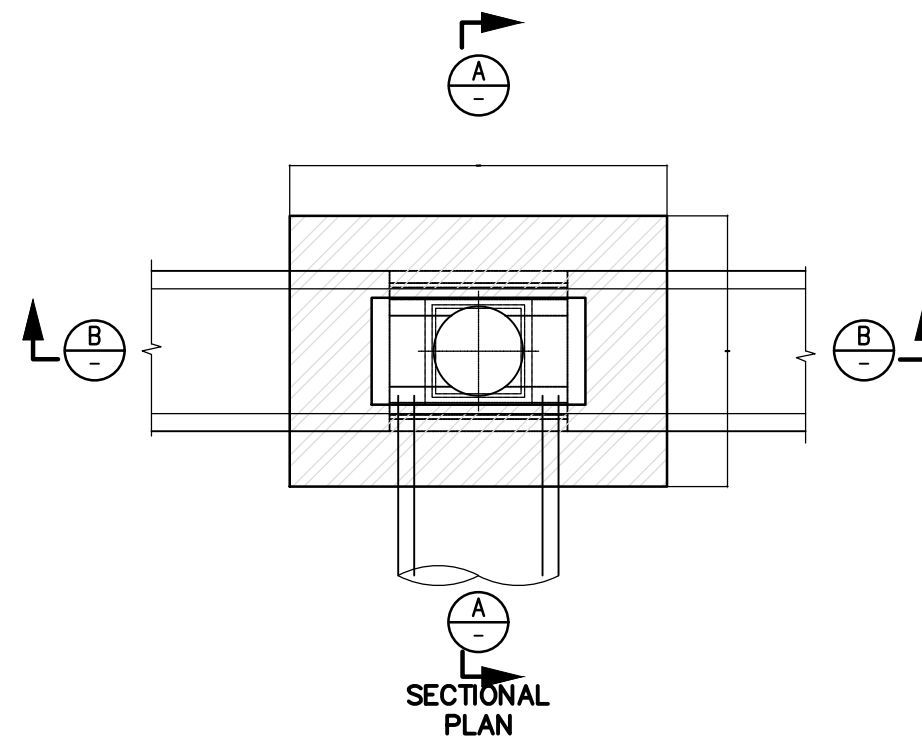
- FILL AROUND CONDUIT, AND TRIM.
- SEAL COVER SLAB TO CHAMBER.
- CURRENT BASED QUARRY GROUT WITH BONDING LIQUID, NOT WATER

SISTA FOAM PU

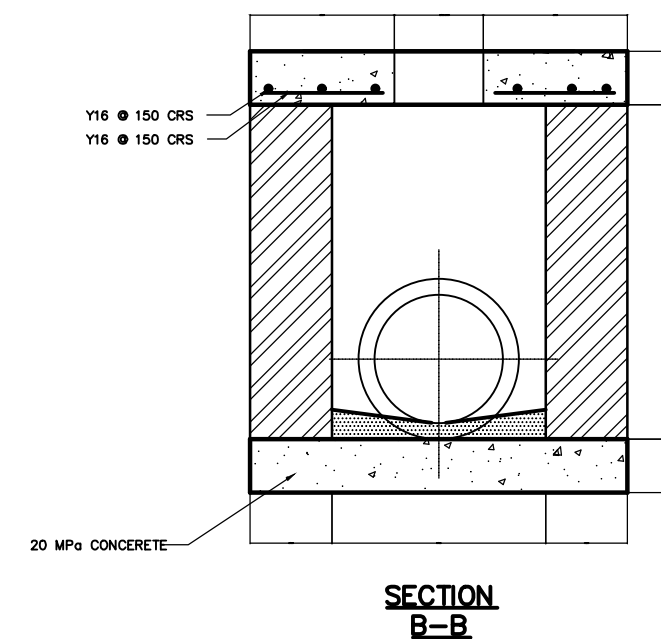
- FILL CONDUIT AROUND INNER-DUCT 100mm DEEP, AND TRIM
- 100mm DEEP



ITS SLEEVE MANHOLE
SCALE : 1:20



SECTION A-A SLOTTED DRAIN ON LEES STREET
SCALE 1:10



SECTION B-B

NOTES AND SPECIFICATIONS

GENERAL

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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FILE
1.	2022-05-27	CW	ISSUED FOR APPROVAL	
2.	2022-05-27	CW	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
APPROVED			

PROJECT STATUS	
DESIGNED	ISSUED FOR APPROVAL
ISSUED FOR TENDER	ISSUED FOR CONSTRUCTION

PROJECT ENGINEER (CONSULTANT)	
DETAILS AND SURNAME	SIGNATURE AND P. NO.
PROFESSOR OF WORKS CITY OF TSHWANE	DATE
DETAILS AND SURNAME	SIGNATURE AND P. NO.
	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Mr. Imvula Tshwene
REGIONAL HEAD - RPTN DIVISION

Mr. P. L. Letlamo
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

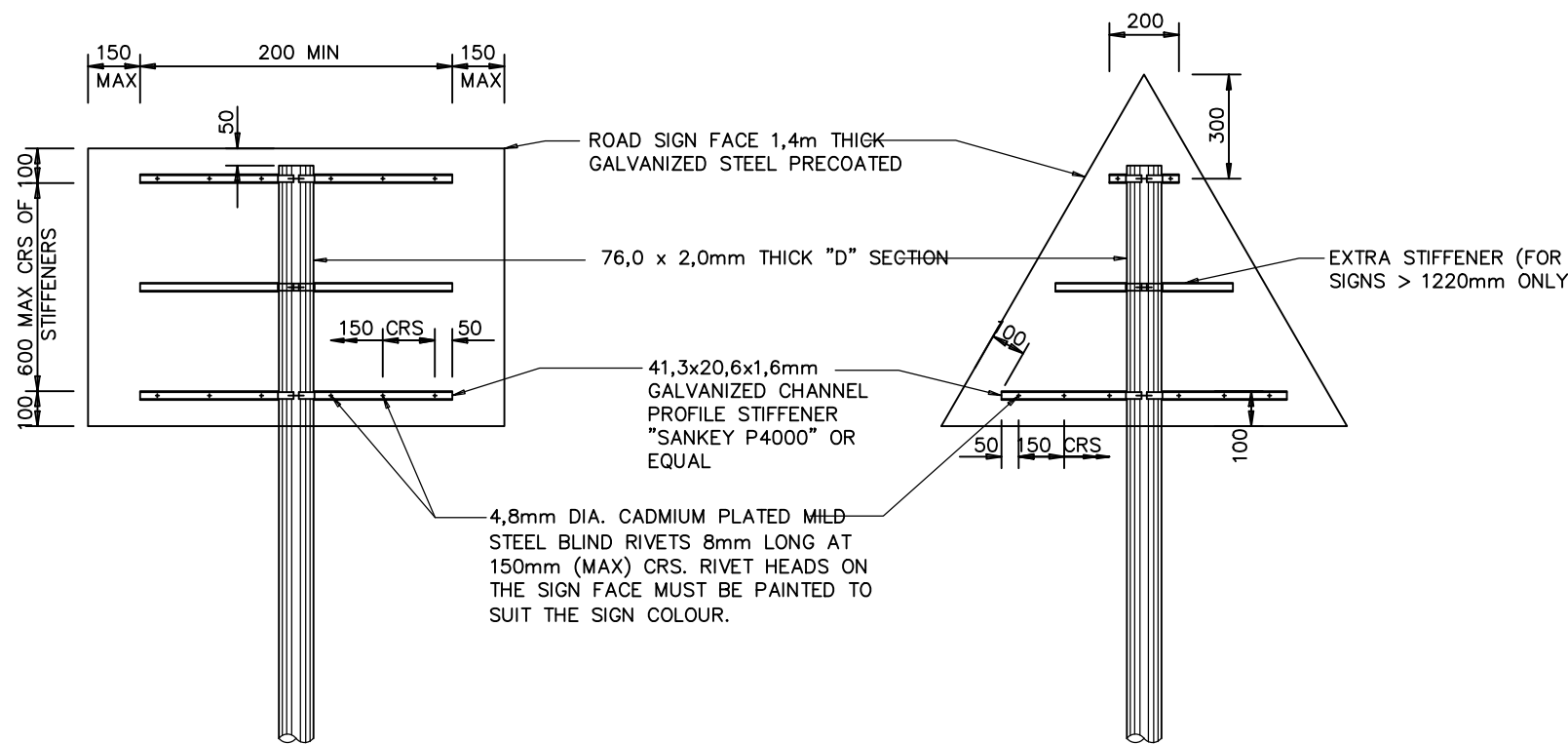
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PRETORIA 0001

DRAWING APPROVED BY DIVISIONAL HEAD
Mr. Imvula Tshwene

DESCRIPTION OF PROJECT
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

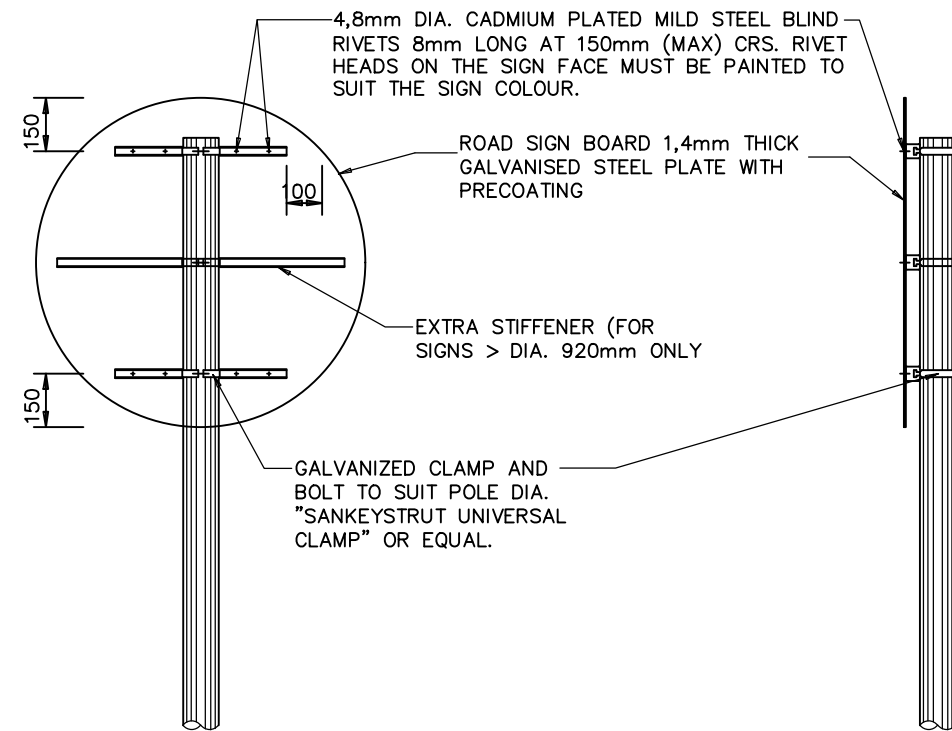
DESCRIPTION OF DRAWING
**LYNNWOOD ROAD - WP2
TYPICAL STANDARD DETAILS
FOR STORMWATER**

CONTRACT No. 1	PROJECT No. 1
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/01/SD/001	SHEET NO. 1
	ORIGINAL PAPER SIZE: A0



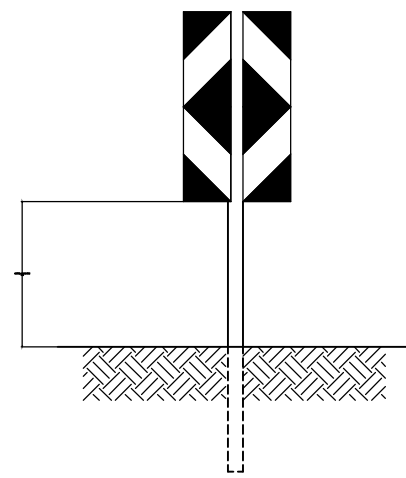
REAR ELEVATION

REAR ELEVATION

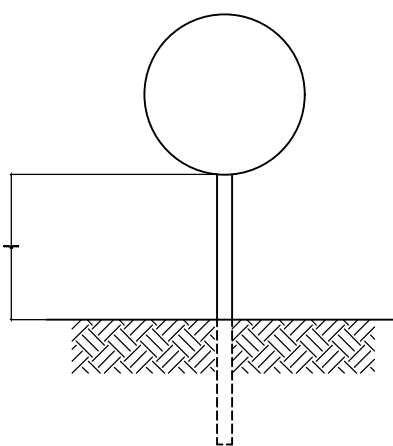


REAR ELEVATION

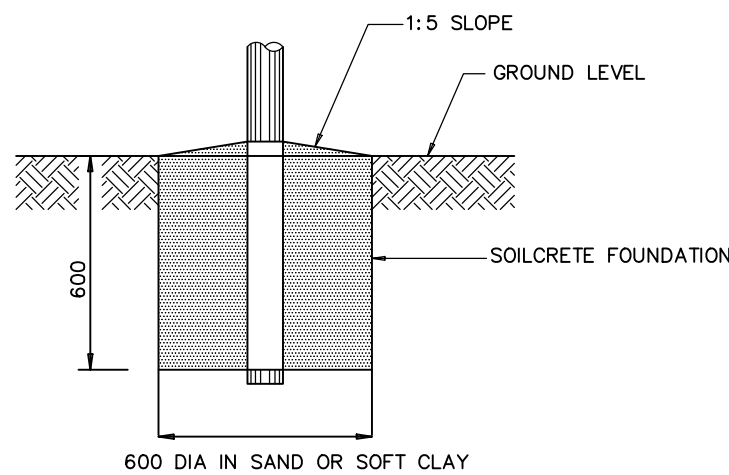
TYPICAL SIDE ELEVATION



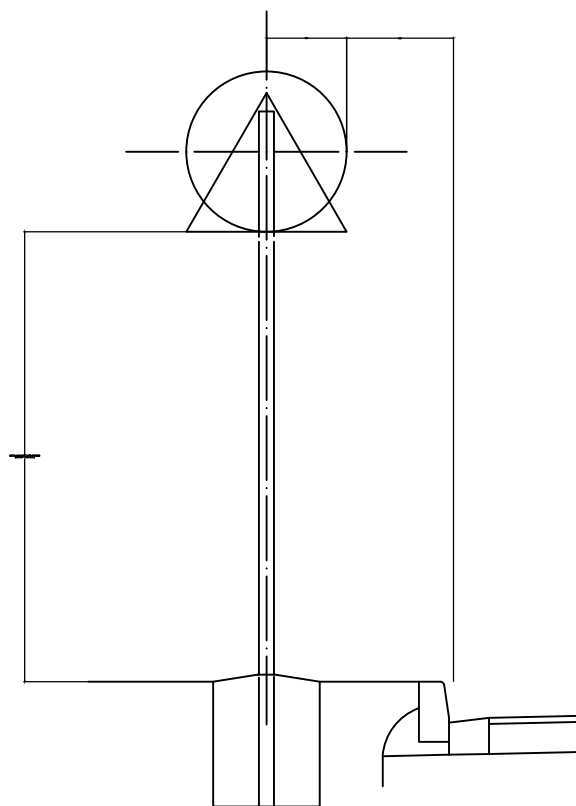
W413 SIGN PLACEMENT
N.T.S.



R103, R104 & R213 SIGN PLACEMENT
N.T.S.



TYPICAL FOUNDATION



SIGN PLACEMENT
N.T.S.

NOTES:

1. DETAILS ON THIS DRAWING ARE APPLICABLE TO ROAD SIGNS SMALLER THAN 1,5m REQUIRING A SINGLE SUPPORT.
2. MANUFACTURING, TRANSPORTATION, ERECTION AND MAINTENANCE OF ROAD SIGNS SHALL CONFORM TO RELEVANT CLAUSES OF SECTION 5600 OF COLTO STANDARD SPECIFICATIONS.
3. MANUFACTURE'S IDENTIFICATION CODE (MANUFACTURE'S NAME, MONTH AND YEAR OF SIGN'S MANUFACTURING) SHALL BE DISPLAYED ON THE REVERSE (LOWER CORNER NEAREST TO ROAD SURFACE) OF COMPLETED SIGN BOARD, THE LETTERS SHALL BE PAINTED IN WHITE AND THEY SHALL NOT BE LARGER THAN 50mm IN HEIGHT.
3. STRUCTURAL STEEL SECTIONS SHALL BE OF MILD STEEL CONFORMING TO THE REQUIREMENTS OF SECTION 6700 OF COLTO STANDARD SPECIFICATIONS.
4. BOLTS, WASHERS AND NUTS SHALL COMPLY WITH THE REQUIREMENTS OF CLAUSE 5602(b) OF COLTO STANDARD SPECIFICATIONS.
5. BLIND RIVETS SHALL BE 4,8mm DIA CADMIUM PLATED MILD STEEL.
6. SOILCRETE FOUNDATIONS SHALL CONSIST OF 12 PARTS APPROVED GRANULAR SOIL OR GRAVEL MIXED WITH 1 PART PORTLAND CEMENT AND ONLY SUFFICIENT WATER TO GIVE IT A CONSISTENCY THAT WILL PERMIT THE SOILCRETE TO BE TAMPED TO EXCLUDE VOIDS. THE SURFACE OF THE SOILCRETE SHALL BE NEATLY FINISHED AS INDICATED.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 16463/00/04/406/(001-005)

NOTES AND SPECIFICATIONS

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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FILE
1.	2022-05-27	CW	ISSUED FOR APPROVAL	
2.	2022-05-27	CW	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT

PROJECT STATUS	
PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CITY OF TSHWANE)

INITIALS AND SIGNATURE	SIGNATURE AND P. NO.	DATE
INITIALS AND SIGNATURE	SIGNATURE AND P. NO.	DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

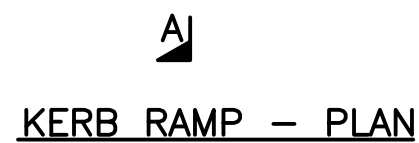
Mr. Imvula Tshenye
DEPUTY HEAD - BRPN DIVISION
P.O. BOX 1409
PRETORIA 0001

Mr. P. L. Letsohane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT: **BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN**

CONTRACT No. 1: **LYNNWOOD ROAD - WP2 TYPICAL STANDARD DETAILS FOR SIGN BOARDS**

DATE: 27/05/2022	SCALE: AS SHOWN	ORIGINAL PAPER SIZE: A0
DRAWING NO. J 2145/01/SD/002	SHEET NO. 2	REVISION



- | AMENDMENTS | | | | |
|------------|----------|----------|---------------------|------|
| MR. | DATE | APPROVED | DESCRIPTION | PAR. |
| A | 05-04-22 | OW | ISSUED FOR APPROVAL | |
| 0 | 01-07-22 | OW | ISSUED FOR TENDER | |
| | | | | |
| | | | | |
| 01 | 05-01 | OW | ISSUED FOR APPROVAL | |
| | | | | |
| | | | | |

STATUS	DATE	STATUS	DATE
PROJECT STATUS			
☐ ON HOLD	☒ IN PROGRESS	☐ COMPLETED	☐ ON PAUSE

PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND PR. No. DATE
INSPECTOR OF WORKS (CITY OF TIRANNE):	
INITIALS AND SURNAME	SIGNATURE AND PR. No. DATE

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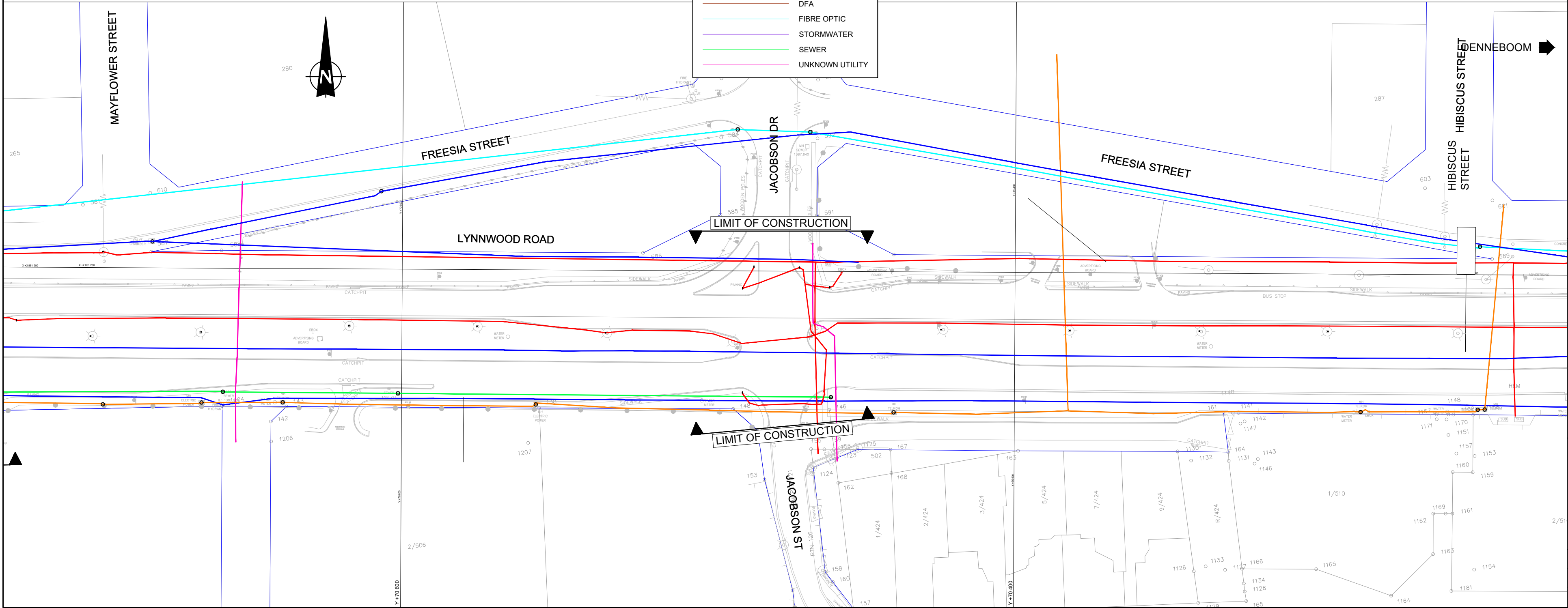
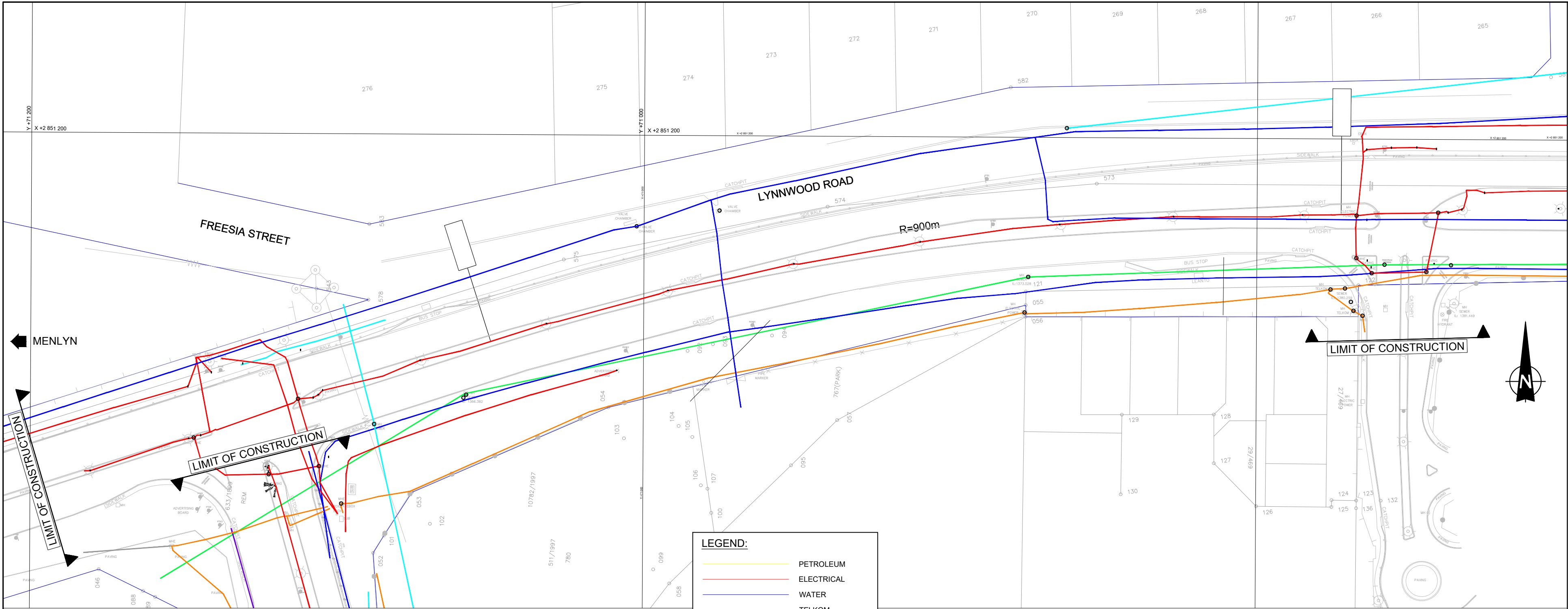
DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

SIGNATURE: _____ DATE: _____
DESCRIPTION OF PROJECT: **BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
TYPICAL STANDARD DETAILS
FOR NMT

CONTRACT NO. :		PROJECT NO. :	
DATE : 27/05/2022		SCALE : AS SHOWN	
DRAWING NO. J 2145/02/SD/003		SHEET NO. 3	
		 DIVISION	



EXISTING SERVICES LEGEND

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	27/05/2022	CW	ISSUED FOR APPROVAL	1
2	11/02/22	CW	ISSUED FOR TENDER	1

DESIGNED	JJ	DRAWN	JJ
CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT

PROJECT STATUS			
☒ PROJECT DESIGN	☒ APPROVED FOR CONSTRUCTION	☐ AS BUILT DRAWING	

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
INSPECTOR OF WORKS CITY OF TSHWANE		

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
BAHLAPHING CONSULTING		

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

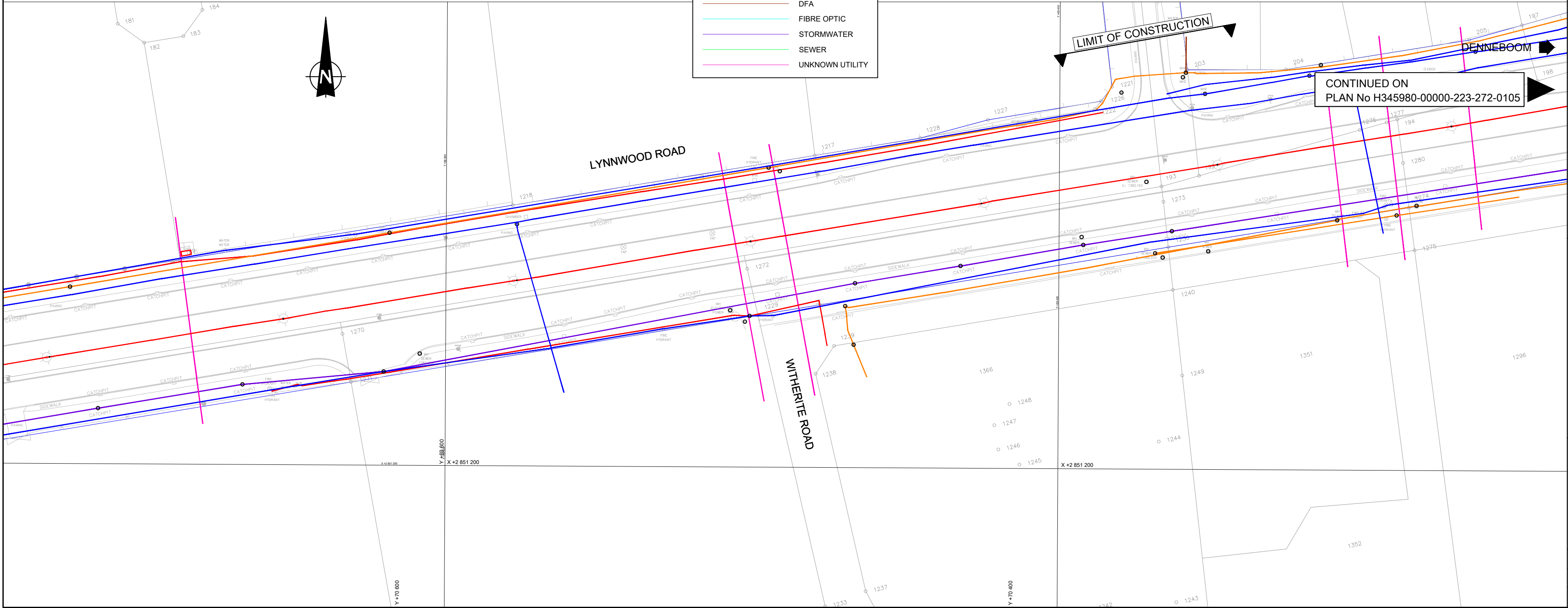
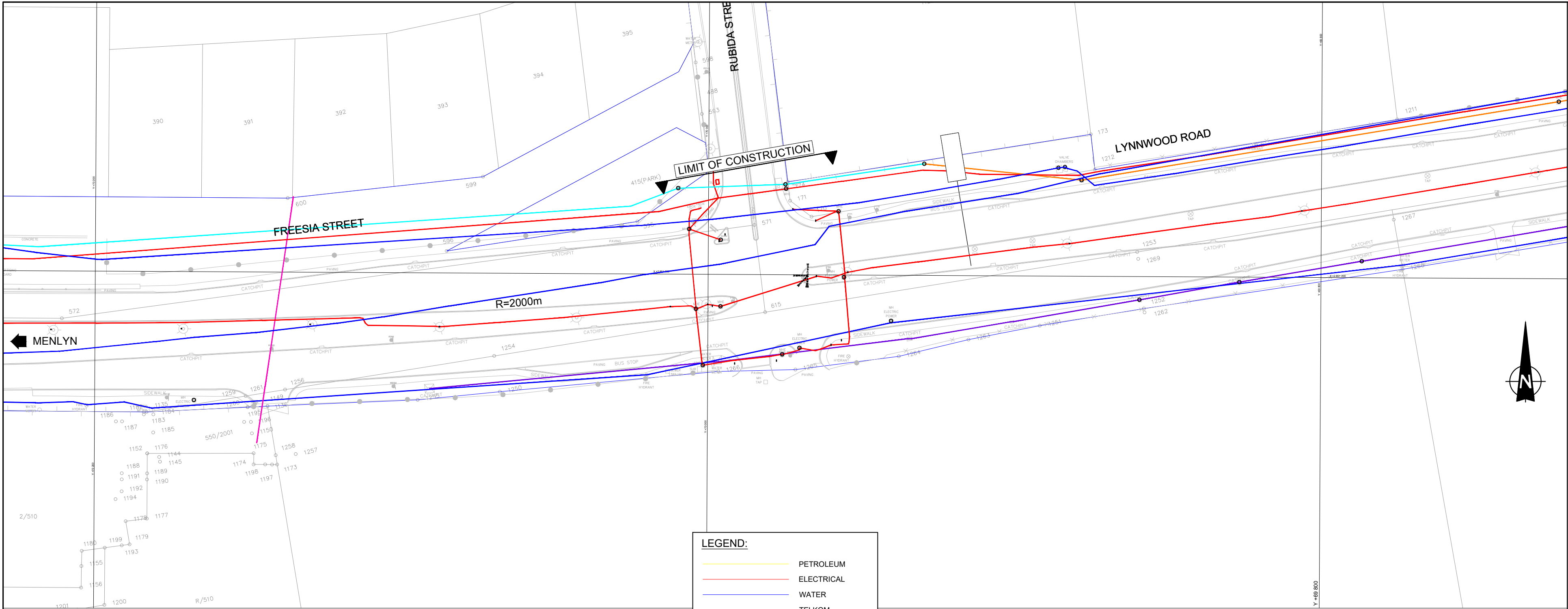
Ms Imelda Tabenye DIVISIONAL HEAD - IPTN DIVISION	Ms P. I. Lelani EXECUTIVE DIRECTOR
--	---------------------------------------

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DESCRIPTION OF PROJECT
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:
LYNNWOOD ROAD - WP2
SERVICES DETECTION
SHEET 1 OF 4

CONTRACT NO.:	PROJECT NO.:
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO: J 2145/02/DET/001	SHEET NO: 2



EXISTING SERVICES LEGEND

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	27/05/2022	OW	ISSUED FOR TENDER
2	11/02/22	OW	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DESIGN CHECKED BY	OW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
PROJECT ENGINEER (CONSULTANT)			

PROJECT STATUS			
☐ COMPLETE	☒ IN PROGRESS	☐ APPROVED FOR CONSTRUCTION	☐ AS-BUILT
INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE	
INSPECTOR OF WORKS (CITY OF TSHWANE)			
INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE	

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - IPTIN DIVISION

Ms P. J. Lelwana
EXECUTIVE DIRECTOR

P.O. BOX 1409
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0001

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DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

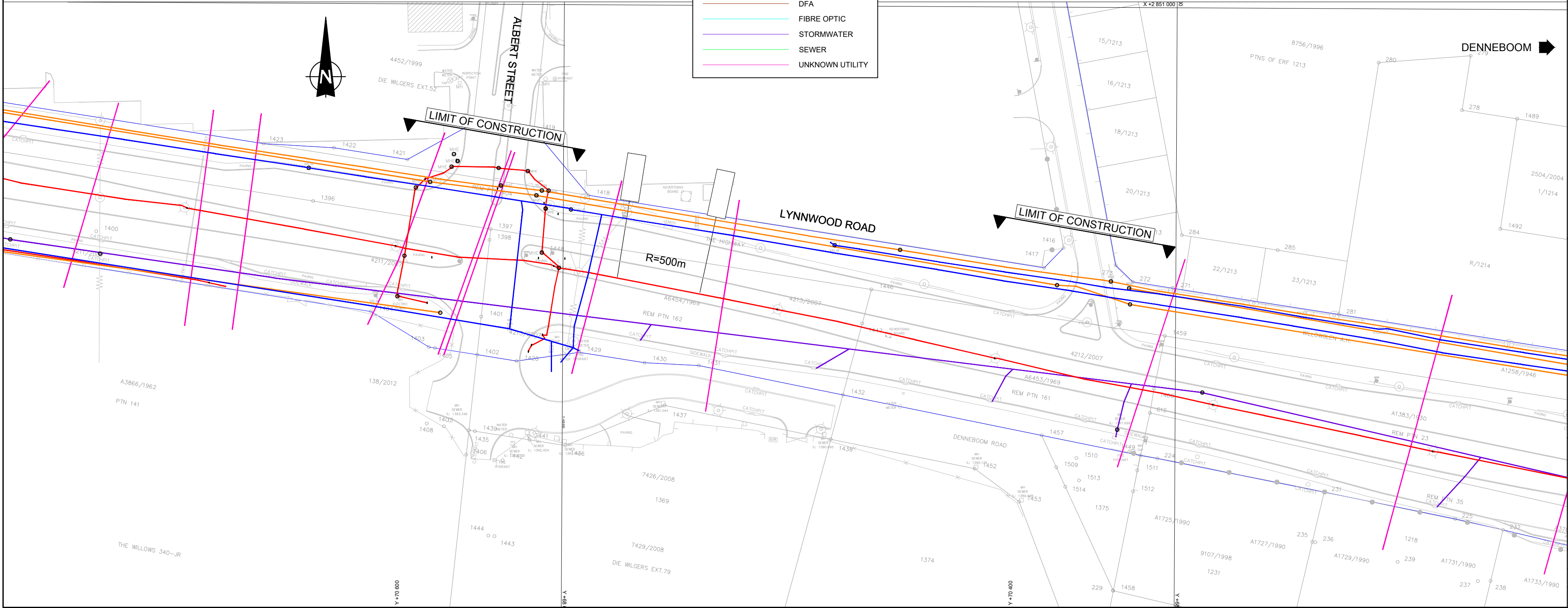
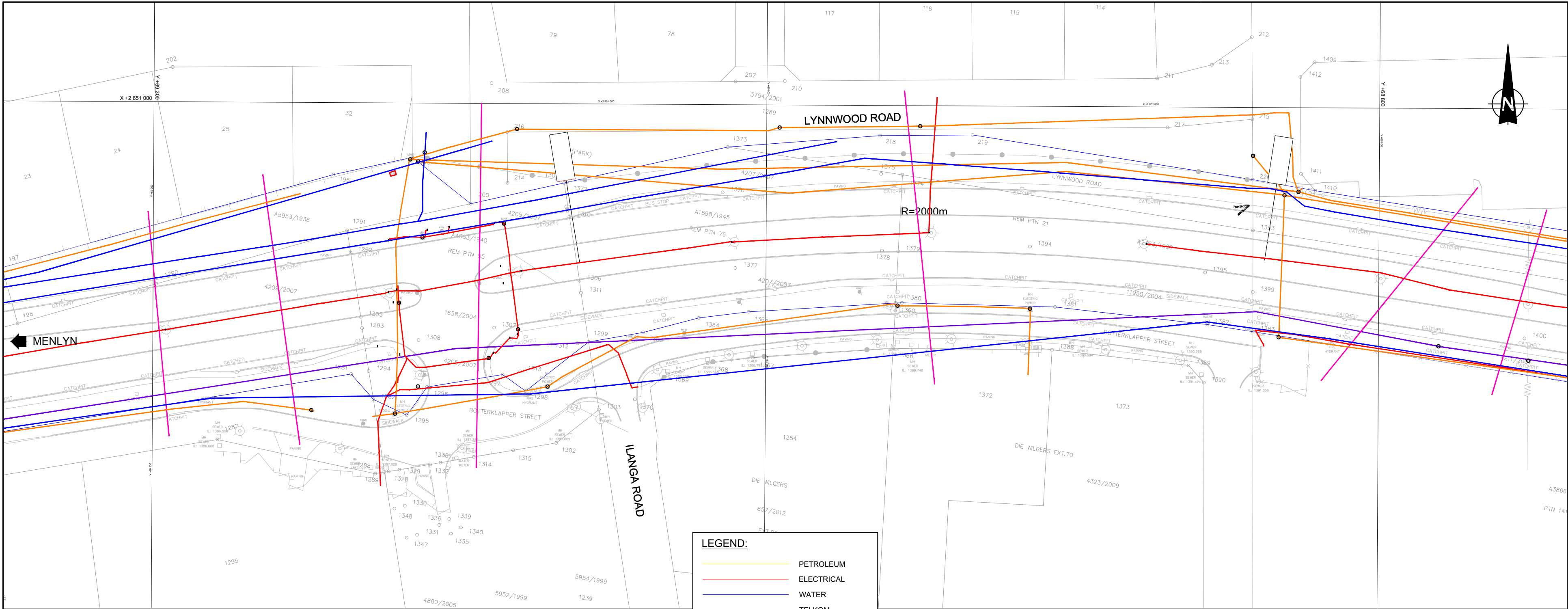
DESCRIPTION OF PROJECT

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:

**LYNNWOOD ROAD - WP2
SERVICES DETECTION
SHEET 2 OF 4**

CONTRACT NO.:	PROJECT NO.:
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/DET/002	SHEET NO. 2
	REVISION



EXISTING SERVICES LEGEND

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FILE
1	27/05/2022	CH	ISSUED FOR APPROVAL	
2	11/02/22	CH	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
CHECKED BY	CW	APPROVED FOR CONSTRUCTION	
PROJECT ENGINEER (CONSULTANT)		APPROVED FOR CONSTRUCTION	

PROJECT STATUS			
☒ DESIGN	☒ APPROVED FOR CONSTRUCTION	☐ AS-BUILT	☐ ISSUED FOR TENDER
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE

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DIVISIONAL HEAD - IPTN DIVISION

Ms P. J. Lelwani
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CONTRACT NO.:	PROJECT NO.:
DATE:	SCALE:
27/05/2022	1:500
DRAWING NO.:	ORIGINAL PAPER SIZE:
J 2145/02/DET/003	A0

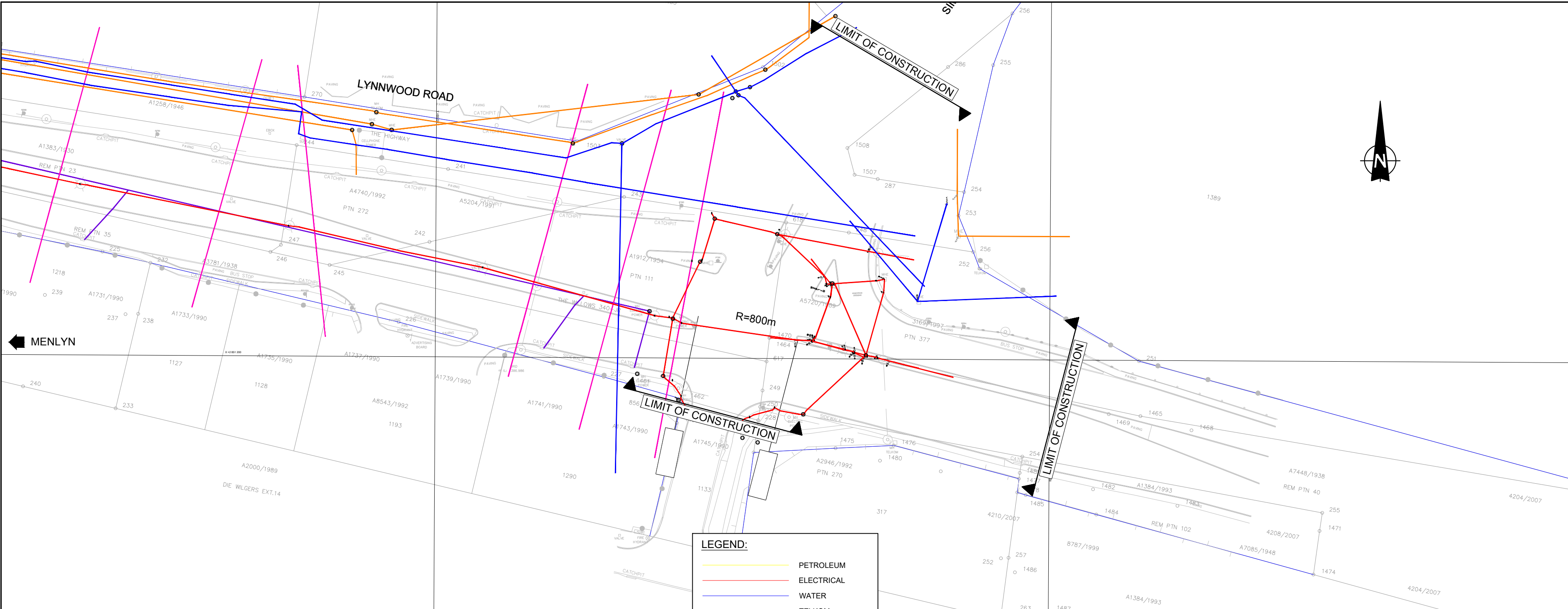
DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
SERVICES DETECTION
SHEET 3 OF 4

CONTRACT NO.:	PROJECT NO.:
DATE:	SCALE:
27/05/2022	1:500
DRAWING NO.:	ORIGINAL PAPER SIZE:
J 2145/02/DET/003	A0



LEGEND:

- PETROLEUM
- ELECTRICAL
- WATER
- TELKOM
- DFA
- FIBRE OPTIC
- STORMWATER
- SEWER
- UNKNOWN UTILITY

EXISTING SERVICES LEGEND

AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	PAGE
1	27/05/22	JJ	ISSUED FOR TENDER	1
2	11/02/22	CW	ISSUED FOR TENDER	1

DESIGNED		DRAWN	
	JJ		JJ
SIGNATURE	DATE	SIGNATURE	DATE

DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
	CW		MANAGEMENT
SIGNATURE	DATE	SIGNATURE	DATE

PROJECT STATUS			
☐ PROJECT COMPLETED	☒ PROJECT IN PROGRESS	☐ PROJECT ON HOLD	☐ PROJECT ON PAUSE

INITIALS AND SURNAME		SIGNATURE AND P. No.		DATE	
INSPECTOR OF WORKS (CITY OF TSHWANE)					
INITIALS AND SURNAME		SIGNATURE AND P. No.		DATE	

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CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
Ms Imelda Tabenye DIVISIONAL HEAD - IPTN DIVISION P.O. BOX 1409 PRETORIA 0001	Ms P. I. Letlamo EXECUTIVE DIRECTOR P.O. BOX 1409 PRETORIA 0001

SIGNATURE		DATE	

DESCRIPTION OF PROJECT

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

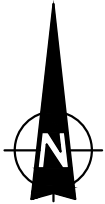
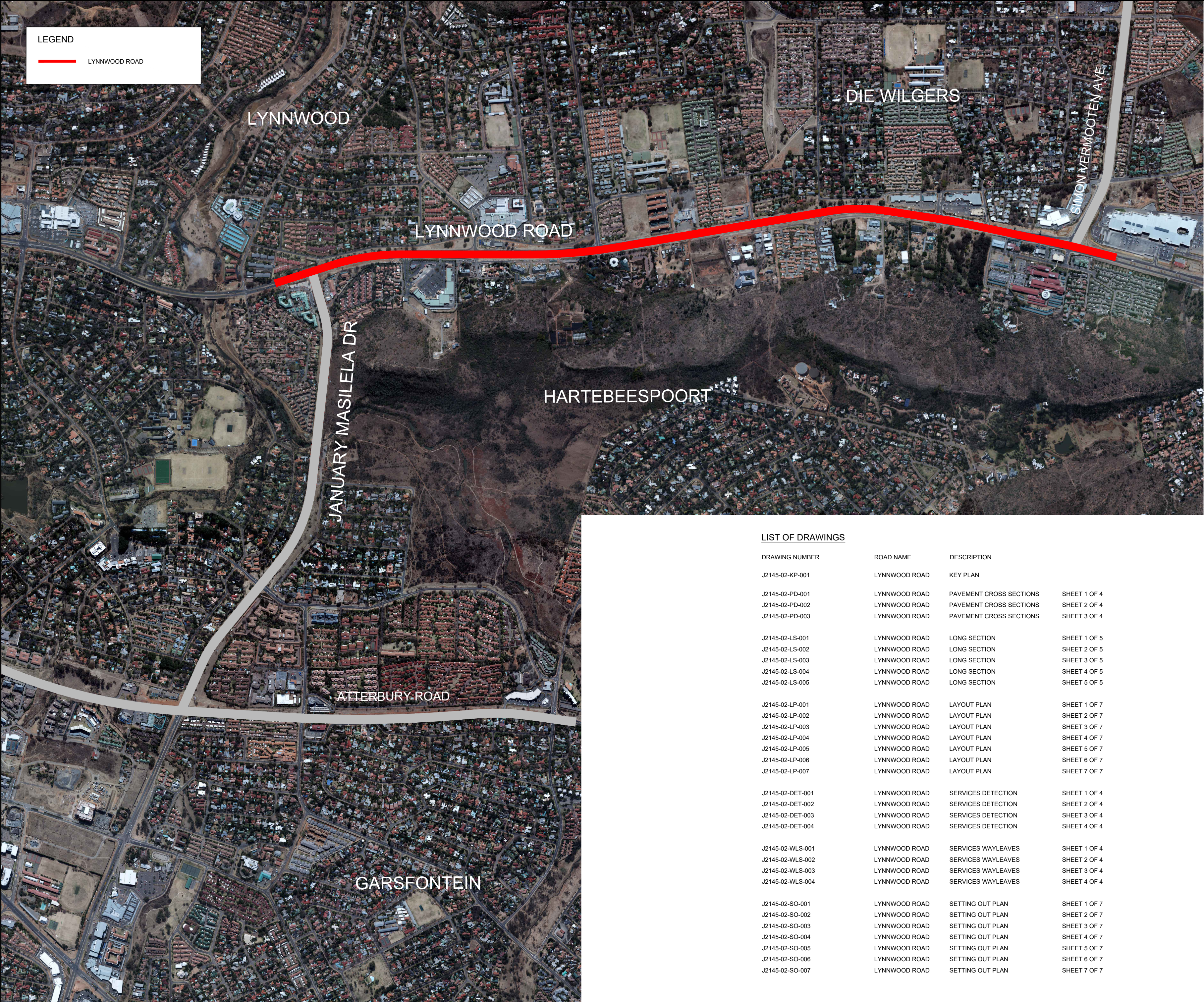
DESCRIPTION OF DRAWING:

**LYNNWOOD ROAD - WP2
SERVICES DETECTION
SHEET 4 OF 4**

CONTRACT No.:		PROJECT No.:	

DATE:	SCALE:	ORIGINAL PAPER SIZE:
27/05/2022	1:500	A0

DRAWING NO.	SHEET NO.	REVISION
J 2145/02/DET/004	2	



NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS			
NR	DATE	APPROVED	DESCRIPTION
1	25/05/22	CW	REVISION FOR TENDER
2	11/07/22	CW	ISSUED FOR TENDER

DESIGNED	CW	DRAWN	CW

DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT

PROJECT STATUS			
DESIGNED	APPROVED	CONSTRUCTION	AS-BUILT

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE



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Pretoria, 0181

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabenye
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Ms P. I. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
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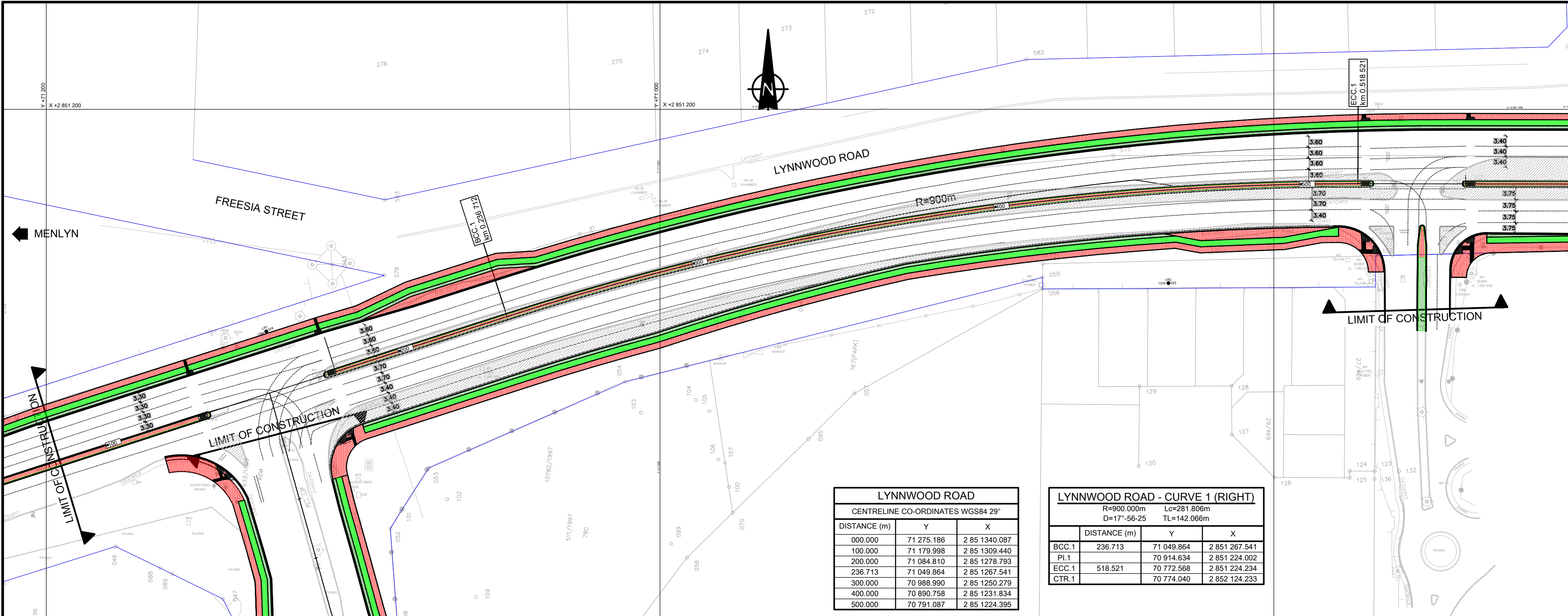
DRAWING APPROVED BY DIVISIONAL HEAD	
INITIALS AND SURNAME	DATE

DESCRIPTION OF PROJECT	
BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	

DESCRIPTION OF DRAWING	
LYNNWOOD ROAD - WP2 KEY PLAN	

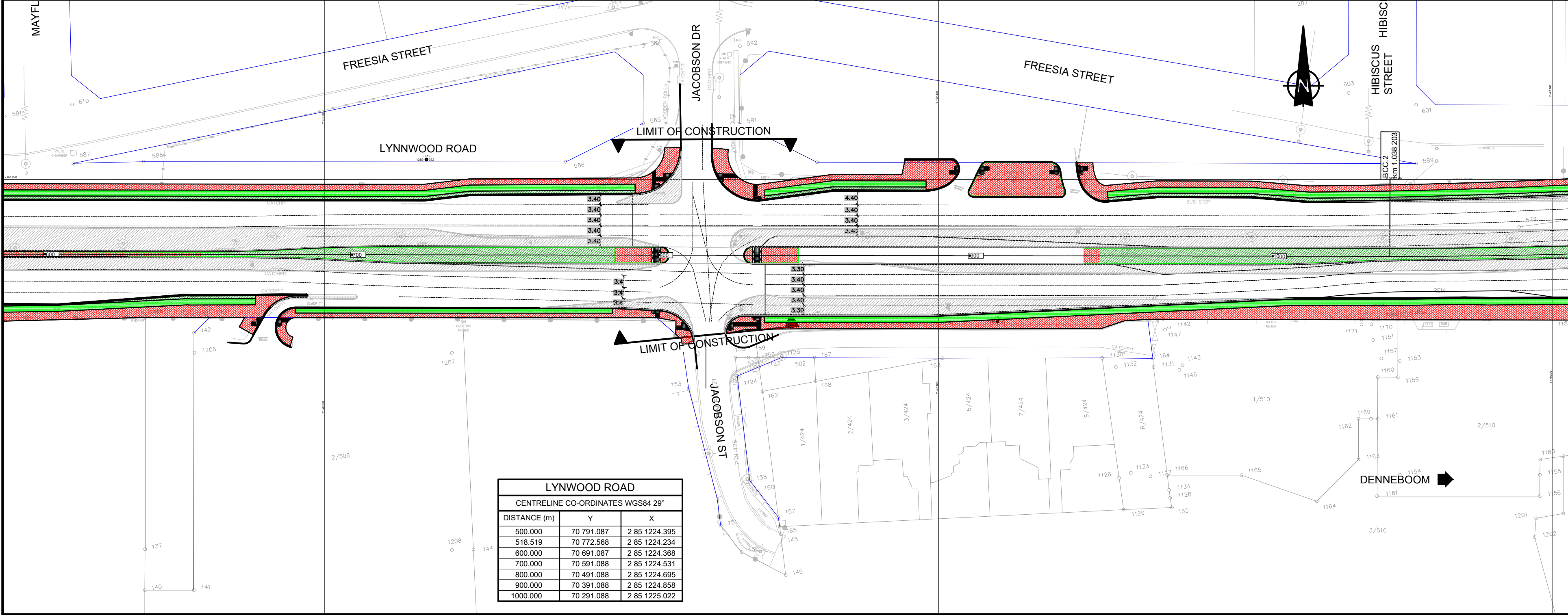
CONTRACT NO.:	
PROJECT NO.:	
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO: J 2145/02/KP/001	SHEET NO: 1

ORIGINAL PAPER SIZE:	
A0	
REVISION	



- NOTES AND SPECIFICATIONS**
- GENERAL**
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS
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 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

- LEGEND**
- ROAD WIDENING
 - PEDESTRIAN WALKWAY
 - CYCLE LANE
 - MEDIANS / ISLANDS
 - TRT STATIONS
 - TRT BARRIER KERB
 - TRT LANE
 - CADASTRAL BOUNDARY



AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FILE
1	01-12-24	OK	ISSUED FOR APPROVAL	
2	01-02-24	OK	ISSUED FOR TENDER	

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT): ☐ ☐ ☐ ☐

INSPECTOR OF WORKS (CITY OF TSHWANE): ☐ ☐ ☐ ☐

BAHLAPHING CONSULTING

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA 0001

M P L Luthlana
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

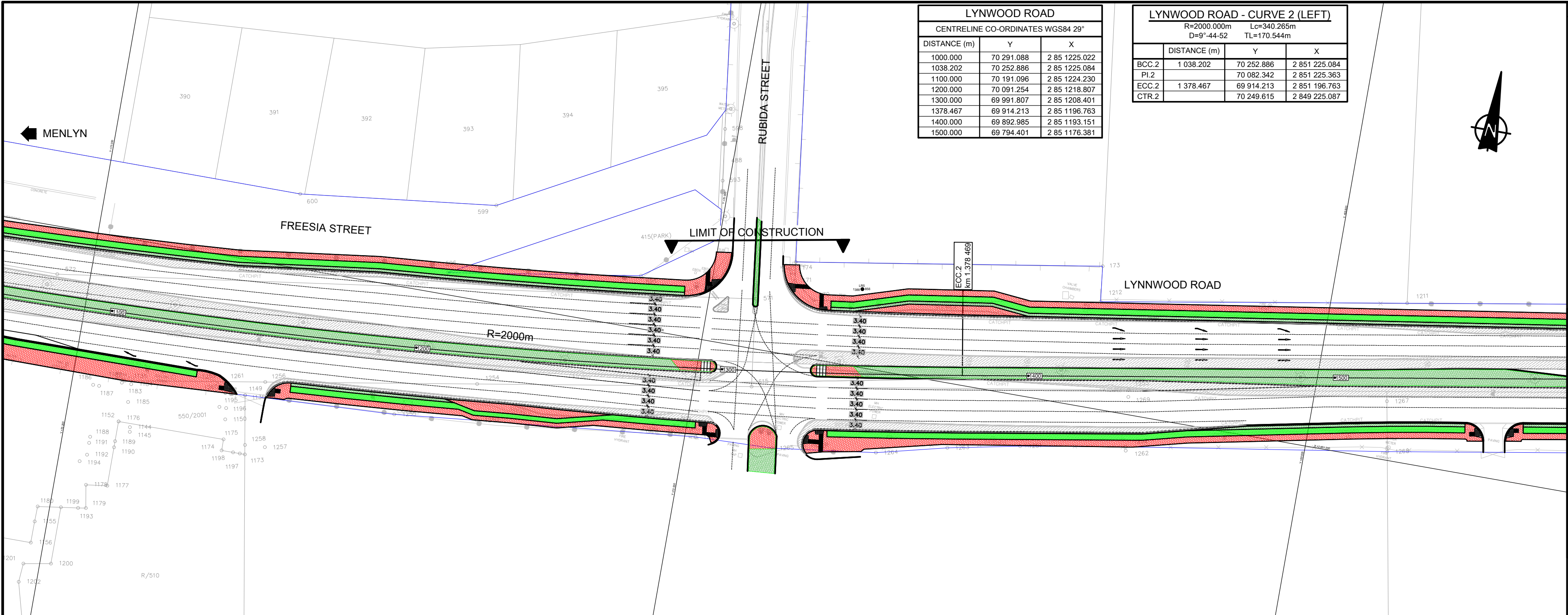
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN

LYNNWOOD ROAD - WP2
LAYOUT PLAN
SHEET 1 OF 4

CONTRACT NO.: **PROJECT NO.:**

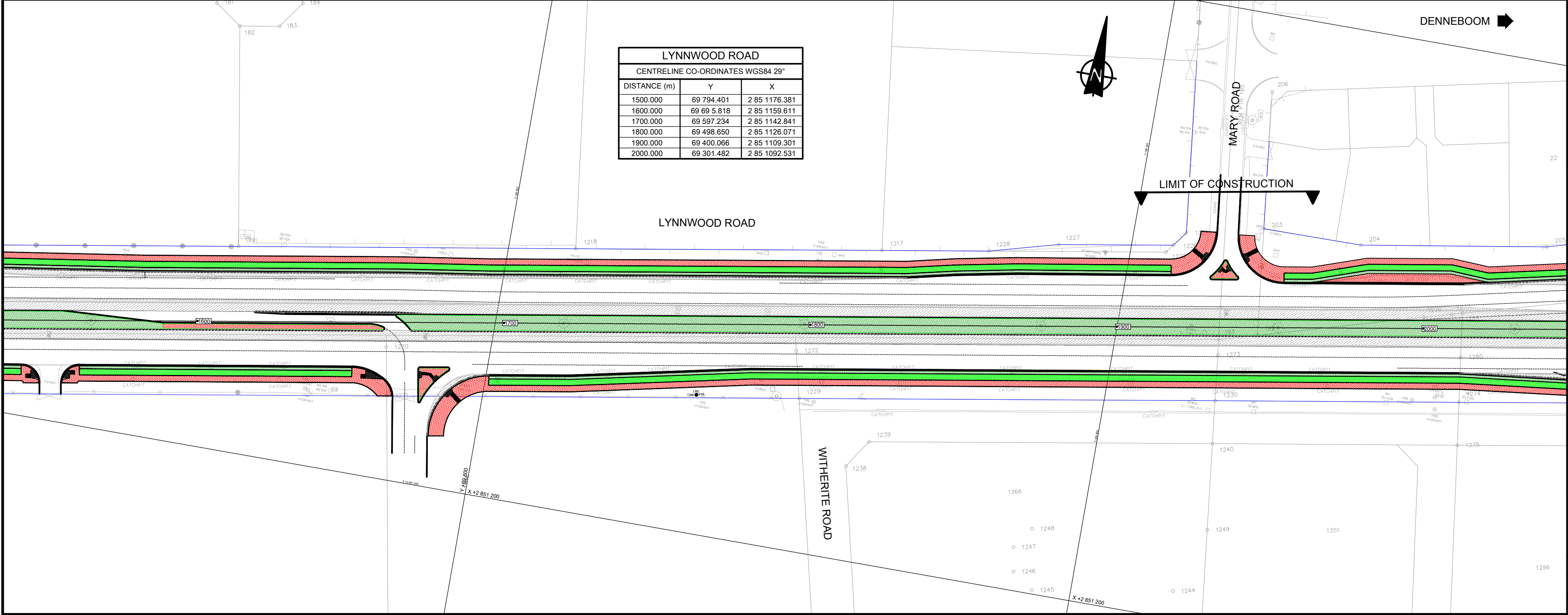
DATE: 27/05/2022 **SCALE:** 1:500 **ORIGINAL PAPER SIZE:** A0

DRAWING NO.: J 2145/02/LP/001 **SHEET NO.:** 3 **REVISION:**



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- GENERAL**
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 - PEDESTRIAN WALKWAY
 - CYCLE LANE
 - MEDIANS / ISLANDS
 - TRT STATIONS
 - TRT BARRIER KERB
 - TRT LANE
 - CADASTRAL BOUNDARY



AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	01-12-21	CW	ISSUED FOR APPROVAL
2	01-07-24	CW	ISSUED FOR TENDER

PROJECT STATUS	
DESIGNED BY	AA
DESIGN CHECKED BY	CW
PROJECT ENGINEER (CONSULTANT)	AA
INFRASTRUCTURE TECHNICAL INFORMATION	D.J. CHAMBERS

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P.O. BOX 1409
PRETORIA
0001

Mr P. L. Lethlamo
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

LYNNWOOD ROAD - WP2
LAYOUT PLAN
SHEET 2 OF 4

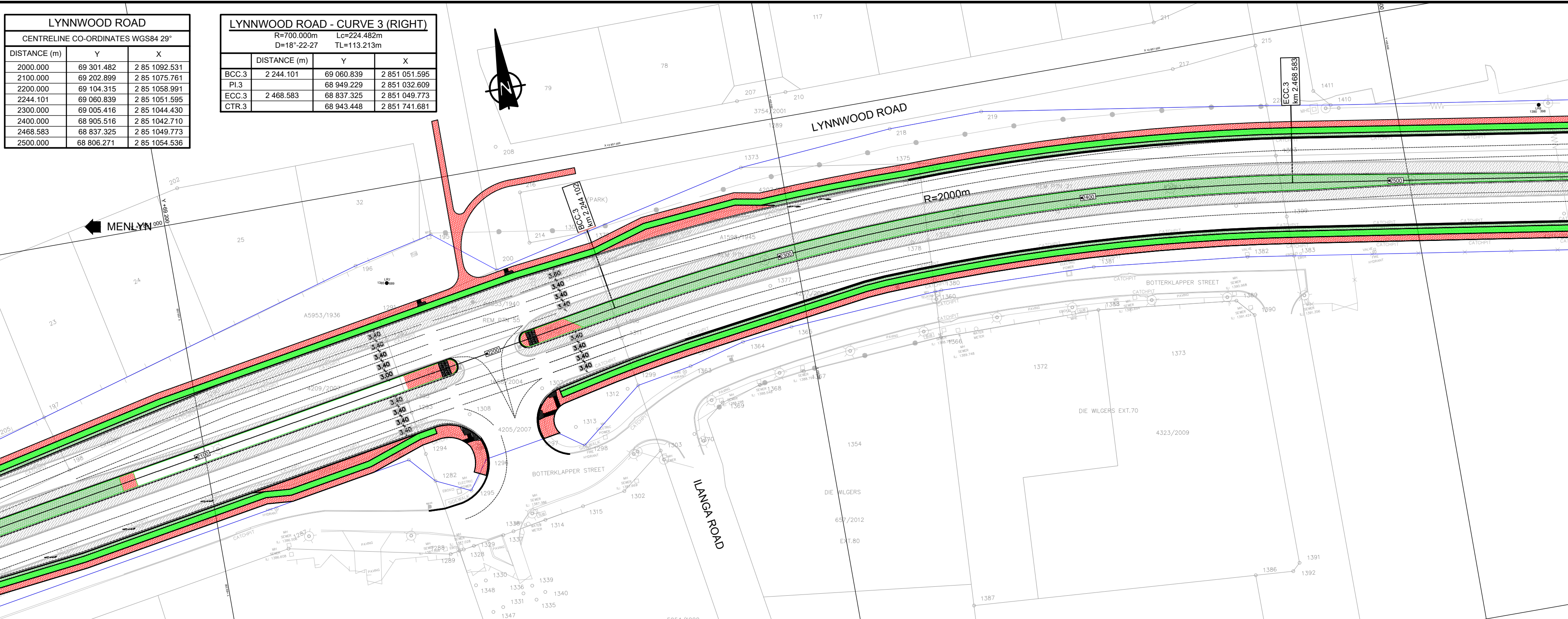
CONTRACT No. 1 PROJECT No. 1

DATE: 27/05/2022 SCALE: 1:500 ORIGINAL PAPER SIZE: A0

DRAWING NO. J 2145/02/LP/002 SHEET NO. 3 REVISION

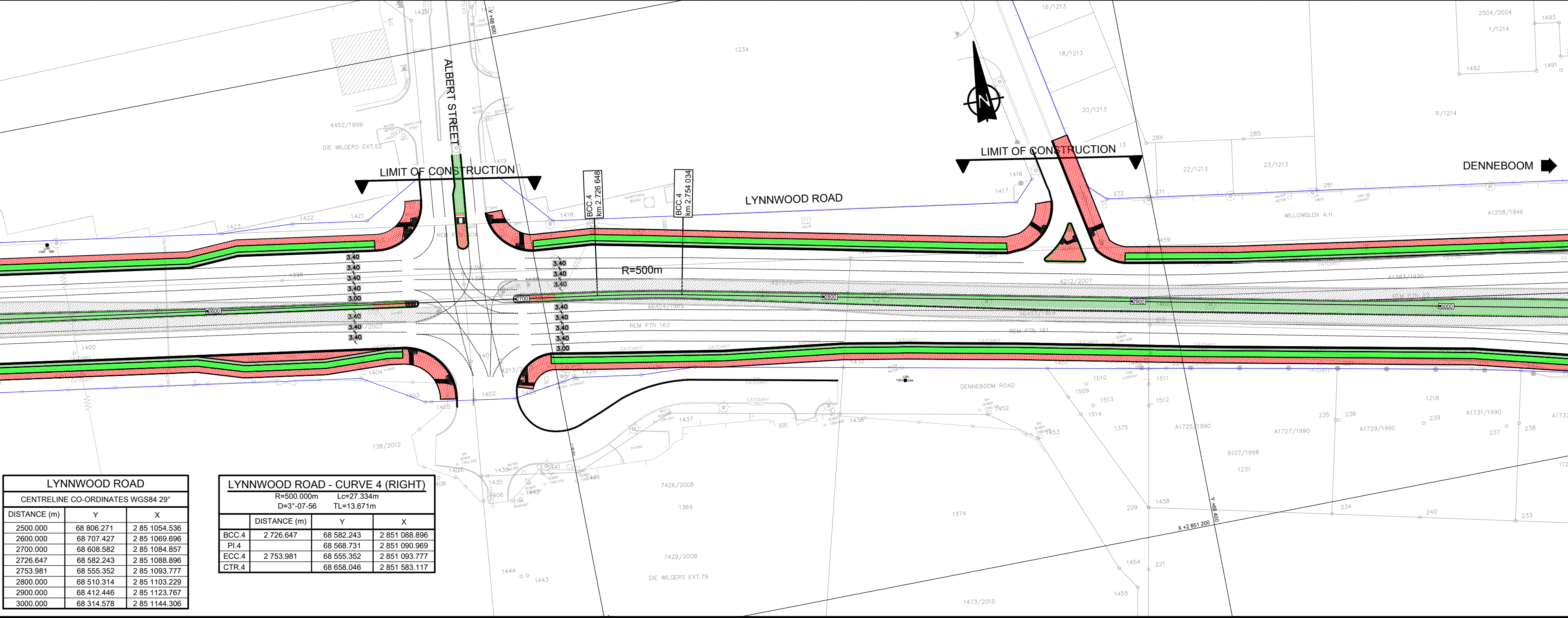
LYNNWOOD ROAD		
CENTRELINE CO-ORDINATES WGS84 29°		
DISTANCE (m)	Y	X
2000.000	69 301.482	2 85 1092.531
2100.000	69 202.899	2 85 1075.761
2200.000	69 104.315	2 85 1058.991
2244.101	69 060.839	2 85 1051.595
2300.000	69 005.416	2 85 1044.430
2400.000	68 905.516	2 85 1042.710
2468.583	68 837.325	2 85 1049.773
2500.000	68 806.271	2 85 1054.536

LYNNWOOD ROAD - CURVE 3 (RIGHT)			
R=700.000m		Lc=224.482m	
D=18°-22-27		TL=113.213m	
	DISTANCE (m)	Y	X
BCC.3	2 244.101	69 060.839	2 851 051.595
PI.3		68 949.229	2 851 032.609
ECC.3	2 468.583	68 837.325	2 851 049.773
CTR.3		68 943.448	2 851 741.681



- NOTES AND SPECIFICATIONS**
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 - CYCLE LANE
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LYNNWOOD ROAD		
CENTRELINE CO-ORDINATES WGS84 29°		
DISTANCE (m)	Y	X
2500.000	68 806.271	2 85 1054.536
2600.000	68 707.427	2 85 1069.696
2700.000	68 608.582	2 85 1084.857
2726.647	68 582.243	2 85 1088.896
2753.981	68 555.352	2 85 1093.777
2800.000	68 510.314	2 85 1103.229
2900.000	68 412.446	2 85 1123.767
3000.000	68 314.578	2 85 1144.306

LYNNWOOD ROAD - CURVE 4 (RIGHT)			
R=500.000m		Lc=27.334m	
D=3°-07-56		TL=13.671m	
	DISTANCE (m)	Y	X
BCC.4	2 726.647	68 582.243	2 851 088.896
PI.4		68 568.731	2 851 090.969
ECC.4	2 753.981	68 555.352	2 851 093.777
CTR.4		68 658.046	2 851 583.117

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	01-07-24	CW	ISSUED FOR APPROVAL
2	01-07-24	CW	ISSUED FOR TENDER

PROJECT STATUS	
DESIGNED	BY: AJ
DESIGN CHECKED BY	INFRASTRUCTURE TECHNICAL INFORMATION
INSPECTOR OF WORKS (CITY OF TSHWANE)	D.J. CHAMBERS

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Ms Imelda Tshenye
DIVISIONAL HEAD - IPTN DIVISION

Ms P. L. Lelani
EXECUTIVE DIRECTOR

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PRETORIA 0001

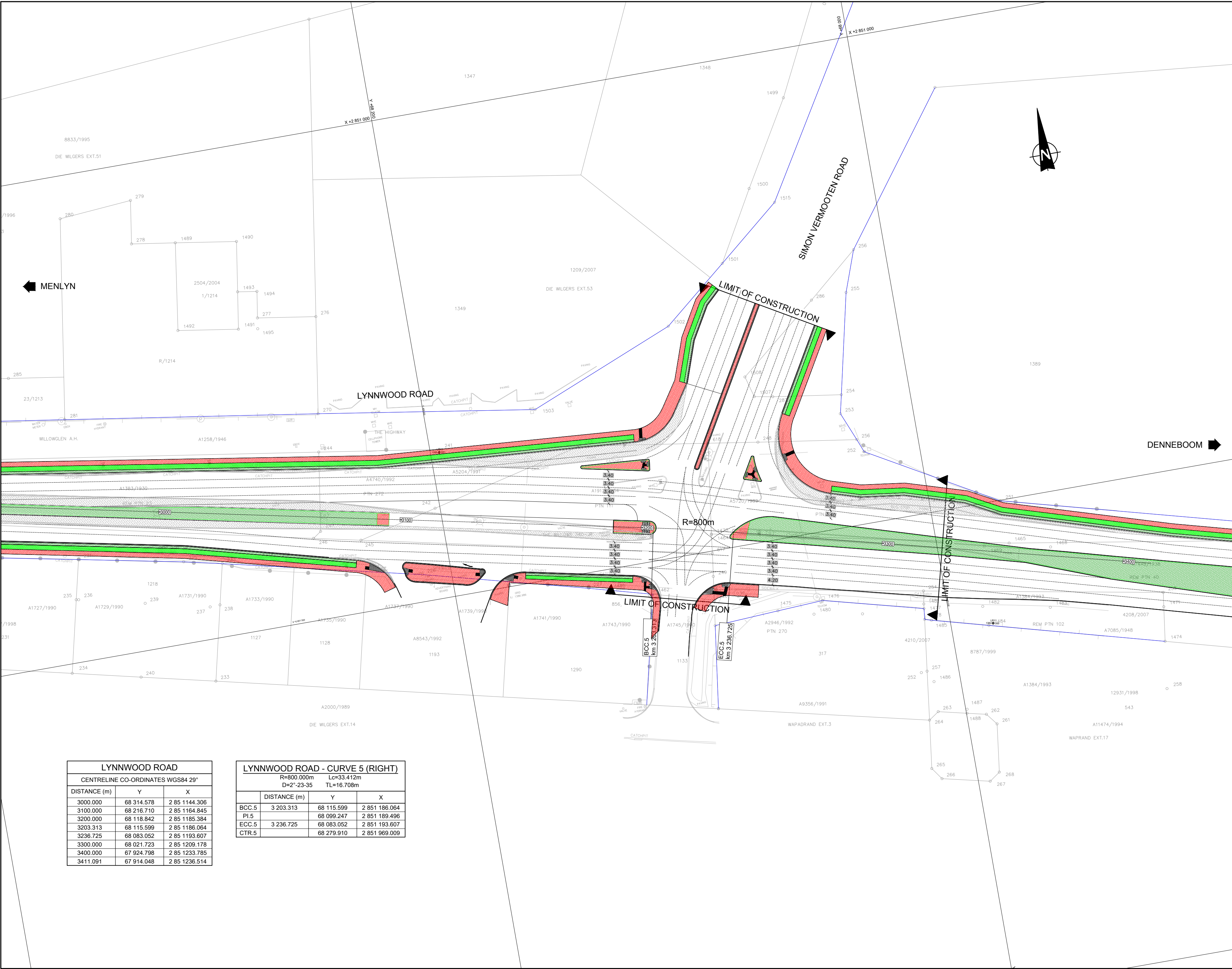
P.O. BOX 1409
PRETORIA 0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

DATE:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

CONTRACT NO. :		PROJECT NO. :	
DATE :		SCALE :	
27/05/2022		1:500	
DRAWING NO.		SHEET NO.	
J 2145/02LP/003		3	
ORIGINAL PAPER SIZE:		A4	
REVISION			



NOTES AND SPECIFICATIONS

GENERAL

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LEGEND

- ROAD WIDENING
- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
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- TRT LANE
- CADASTRAL BOUNDARY

AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	21-05-2022	JJ	ISSUED FOR APPROVAL
2	01-07-24	CW	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	D.J. CHALMERS
SIGNATURE		SIGNATURE	

PROJECT STATUS			
DESIGN	APPROVED FOR TENDER	APPROVED FOR CONSTRUCTION	AS BUILT

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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Ms P. I. Luthlazi
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

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PRETORIA 0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Taberpe

DESCRIPTION OF PROJECT:	
BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	

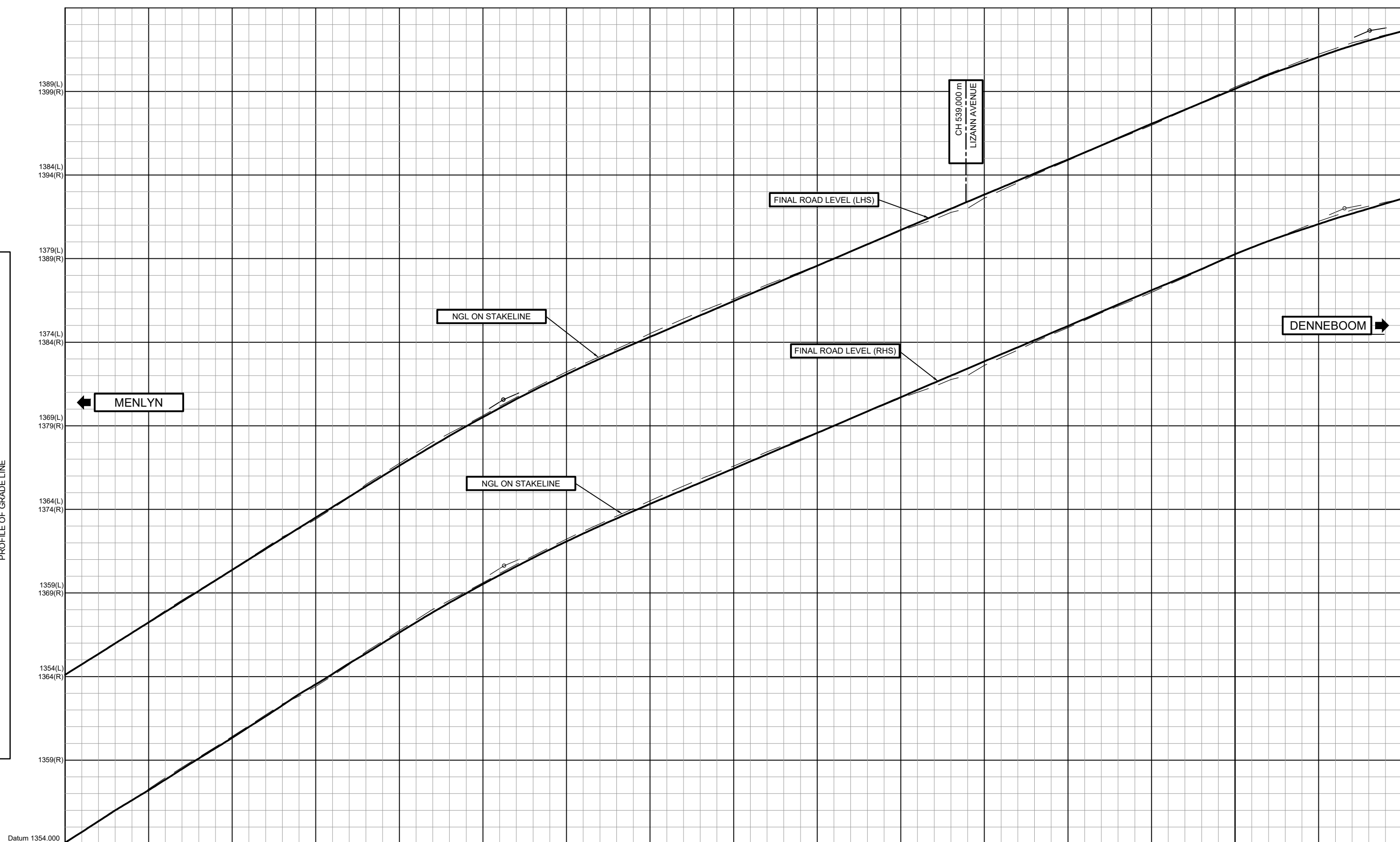
DESCRIPTION OF DRAWING:	
LYNNWOOD ROAD - WP2 LAYOUT PLAN SHEET 4 OF 4	

CONTRACT No. :	
PROJECT No. :	

DATE :	SCALE :	ORIGINAL PAPER SIZE:
27/05/2022	1:500	A0

DRAWING NO.	SHEET NO.	REVISION
J 2145/02/LP/004	3	

SCALE H: 1:1000
V: 1:100



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60		1357.866	1357.612
80		1359.121	1358.829
100		1360.375	1360.016
120		1361.635	1361.635
140		1364.136	1363.697
160		1365.376	1365.030
180		1366.612	1366.287
200		1367.884	1367.577
220		1368.970	1368.110
240		1368.970	1368.071
260		1370.060	1370.211
280		1371.106	1371.407
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320		1373.011	1373.142
340		1373.893	1374.053
360		1375.603	1375.658
380		1374.741	1374.893
400		1376.457	1376.745
420		1377.302	1377.618
440		1378.152	1378.347
460		1378.996	1378.982
480		1379.653	1380.033
500		1380.708	1380.656
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580		1384.094	1383.994
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760		1391.421	1391.084
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820		1393.000	1392.675
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980		1395.282	1394.772
1000		1395.423	1394.893
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1180		1395.619	1394.982
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1280		1395.069	1394.434
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1380		1393.999	1393.384
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1480		1392.169	1391.834
1500		1391.709	1391.464
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2080		1367.419	1366.544
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2120		1365.099	1363.594
2140		1363.909	1362.074
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2660		1325.949	1314.204
2680		1324.219	1312.084
2700		1322.469	1309.944
2720		1320.699	1307.784
2740		1318.909	1305.604
2760		1317.099	1303.404
2780		1315.269	1301.184
2800		1313.419	1298.944
2820		1311.549	1296.684
2840		1309.659	1294.404
2860		1307.749	1292.104
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2920		1301.899	1285.084
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3000		1293.819	1275.444
3020		1291.749	1272.984
3040		1289.659	1270.504
3060		1287.549	1268.004
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3160		1276.699	1255.204
3180		1274.469	1252.584
3200		1272.219	1250.044
3220		1269.949	1247.484
3240		1267.659	1244.904
3260		1265.349	1242.304
3280		1263.019	1239.684
3300		1260.669	1237.044
3320		1258.299	1234.384
3340		1255.909	1231.704
3360		1253.499	1229.004
3380		1251.069	1226.284
3400		1248.619	1223.544
3420		1246.149	1220.784
3440		1243.659	1218.004
3460		1241.149	1215.204
3480		1238.619	1212.384
3500		1236.069	1209.544
3520		1233.499	1206.684
3540		1230.909	1203.804
3560		1228.299	1200.904
3580		1225.669	1197.984
3600		1223.019	1195.044
3620		1220.349	1192.084
3640		1217.659	1189.104
3660		1214.949	1186.104
3680		1212.219	1183.084
3700		1209.469	1180.044
3720		1206.699	1176.984
3740		1203.909	1173.904
3760		1201.099	1170.804
3780		1198.269	1167.684
3800		1195.419	1164.544
3820		1192.549	1161.384
3840		1189.659	1158.204
3860		1186.749	1155.004
3880		1183.819	1151.784
3900		1180.869	1148.544
3920		1177.899	1145.284
3940		1174.909	1142.004
3960		1171.899	1138.704
3980		1168.869	1135.384
4000		1165.819	1132.044
4020		1162.749	1128.684
4040		1159.659	1125.304
4060		1156.549	1121.904
4080		1153.419	1118.484
4100		1150.269	1115.044
4120		1147.099	1111.584
4140		1143.909	1108.104
4160		1140.699	1104.604
4180		1137.469	1101.084
4200		1134.219	1097.544
4220		1130.949	1093.984
4240		1127.659	1090.404
4260		1124.349	1086.804
4280		1120.999	1083.184
4300		1117.619	1079.544
4320		1114.219	1075.884
4340		1110.799	1072.204
4360		1107.349	1068.504
4380		1103.869	1064.784
4400		1100.349	1061.044
4420		1096.799	1057.284
4440		1093.219	1053.504
4460		1089.619	1049.704
4480		1085.999	1045.884
4500		1082.349	1042.044
4520		1078.669	1038.184
4540		1074.959	1034.304
4560		1071.219	1030.404
4580		1067.449	1026.484
4600		1063.649	1022.544
4620		1059.819	1018.584
4640		1055.959	1014.604
4660		1052.069	1010.604
4680		1048.149	1006.584
4700		1044.199	1002.544
4720		1040.219	998.484
4740		1036.219	994.404
4760		1032.199	990.304
4780		1028.149	986.184
4800		1024.069	982.044
4820		1019.959	977.884
4840		1015.819	973.704
4860		1011.649	969.504
4880		1007.449	965.284
4900		1003.219	961.044
4920		998.959	956.784
4940		994.669	952.504
4960		990.349	948.204
4980		985.999	943.884
5000		981.619	939.544
5020		977.199	935.184
5040		972.749	930.804
5060		968.269	926.404
5080		963.749	921.984
5100		959.199	917.544
5120		954.619	913.084
5140		949.999	908.604
5160		945.349	904.104
5180		940.669	899.584
5200		935.949	895.044
5220		931.189	890.484
5240		926.399	885.904
5260		921.569	881.304
5280		916.699	876.684
5300		911.799	872.044
5320		906.869	867.384
5340		901.909	862.704
5360		896.919	858.004
5380		891.899	853.284
5400		886.849	848.544
5420		881.769	843.784
5440		876.659	839.004
5460		871.519	834.204
5480		866.349	829.384
5500		861.149	824.544
5520		855.919	819.684
5540		850.659	814.804
5560		845.369	809.904
5580		840.049	804.984
5600		834.699	800.044
5620		829.319	795.084
5640		823.909	790.104
5660		818.469	785.104
5680		812.999	780.084
5700		807.499	775.044
5720		801.969	769.984
5740		796.409	764.904
5760		790.819	759.804
5780		785.199	754.684
5800		779.549	749.544
5820		773.869	744.384
5840		768.149	739.204
5860		762.389	733.984
5880		756.589	728.744
5900		750.749	723.484
5920		744.869	718.204
5940		738.949	712.904
5960			

1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
3. DO NOT SCALE FROM THESE DRAWINGS.
4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2008 AND THE STANDARD CTM DETAIL DRAWINGS.
6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. (IF APPLICABLE)
7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY IMPLIES RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT THE OBTAINED STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH. SITE.
10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

[illegible]

DESIGNED	DRAWN
JJ	JJ
DESIGNED BY	DRAWN BY
DESIGN CHECKED BY	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT
CW	

PROJECT STATUS			
☐	☒	☐	☐

PROJECT ENGINEER (CONSULTANT)	
-------------------------------	--

INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHIRANE):		

INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
BAHLAPHING CONSULTING		

BC | Bahalaphing consulting

306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

t: (012) 348 3038
e: info@bahalaphing.com
www.bahalaphing.com

CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

SIGNATURE: _____ DATE: _____

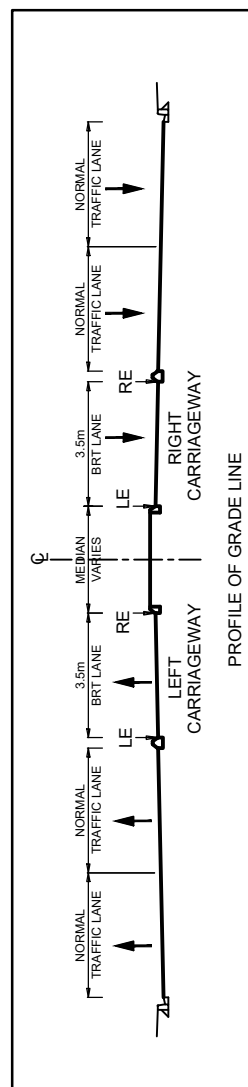
DESCRIPTION OF PROJECT: BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

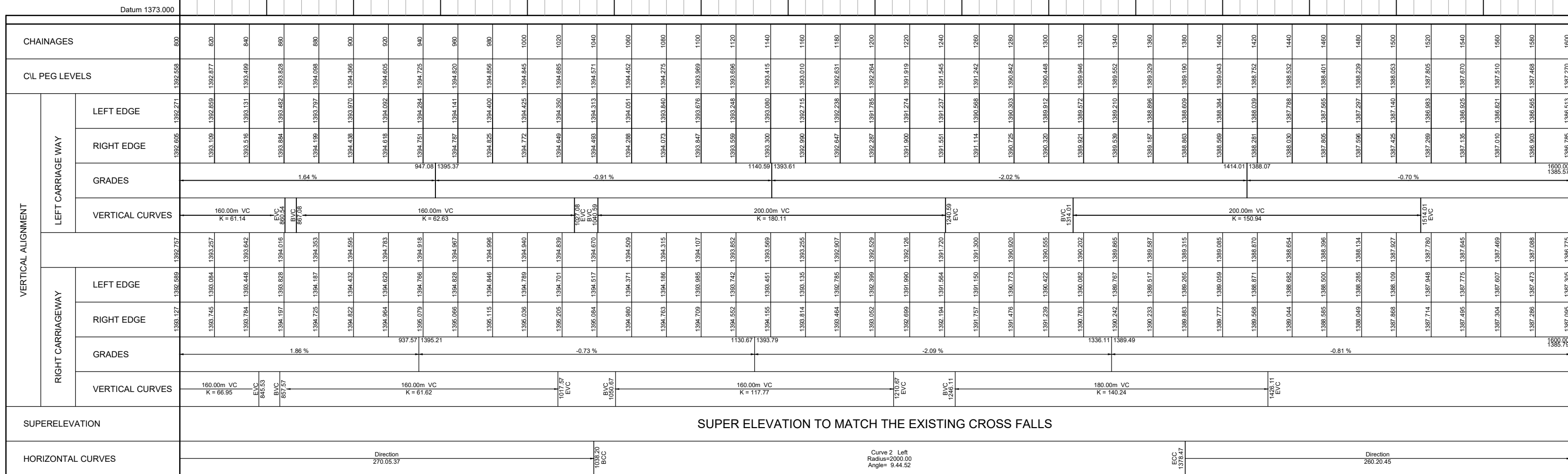
LYNNWOOD ROAD - WP2
LONGITUDINAL SECTION

SHEET 1 OF 5

CONTRACT No. :		PROJECT No. :	
DATE :	SCALE :	ORIGINAL PAPER SIZE:	



SCALE H: 1:1000
V: 1:100



LONG SECTION 800 TO 1600

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS
 6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. (IF APPLICABLE)
 7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
 8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	BY
1	2024-05-24	OK	ISSUED FOR APPROVAL	
2	2024-05-24	OK	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
CHECKED			
DESIGN CHECKED BY			

PROJECT STATUS			

PROJECT ENGINEER (CONSULTANT)	
DRAWING APPROVED BY	

DETAILS AND SIGNATURE	SIGNATURE AND P. NO.	DATE

DETAILS AND SIGNATURE	SIGNATURE AND P. NO.	DATE

BAHLAPHING CONSULTING



306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

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e: info@bahlaphing.com
www.bahlaphing.com

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshwane
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. I. Leluthane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

SIGNATURE:	DATE:

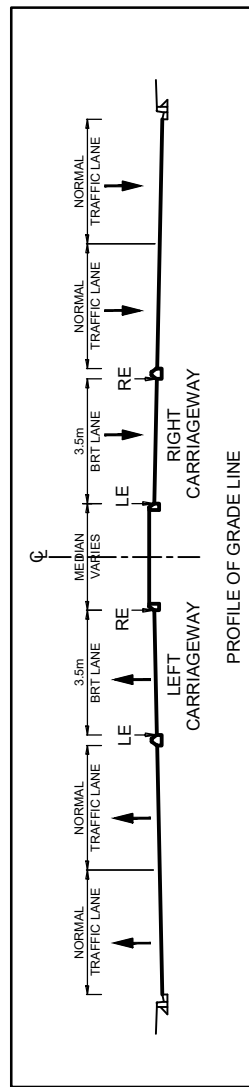
DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

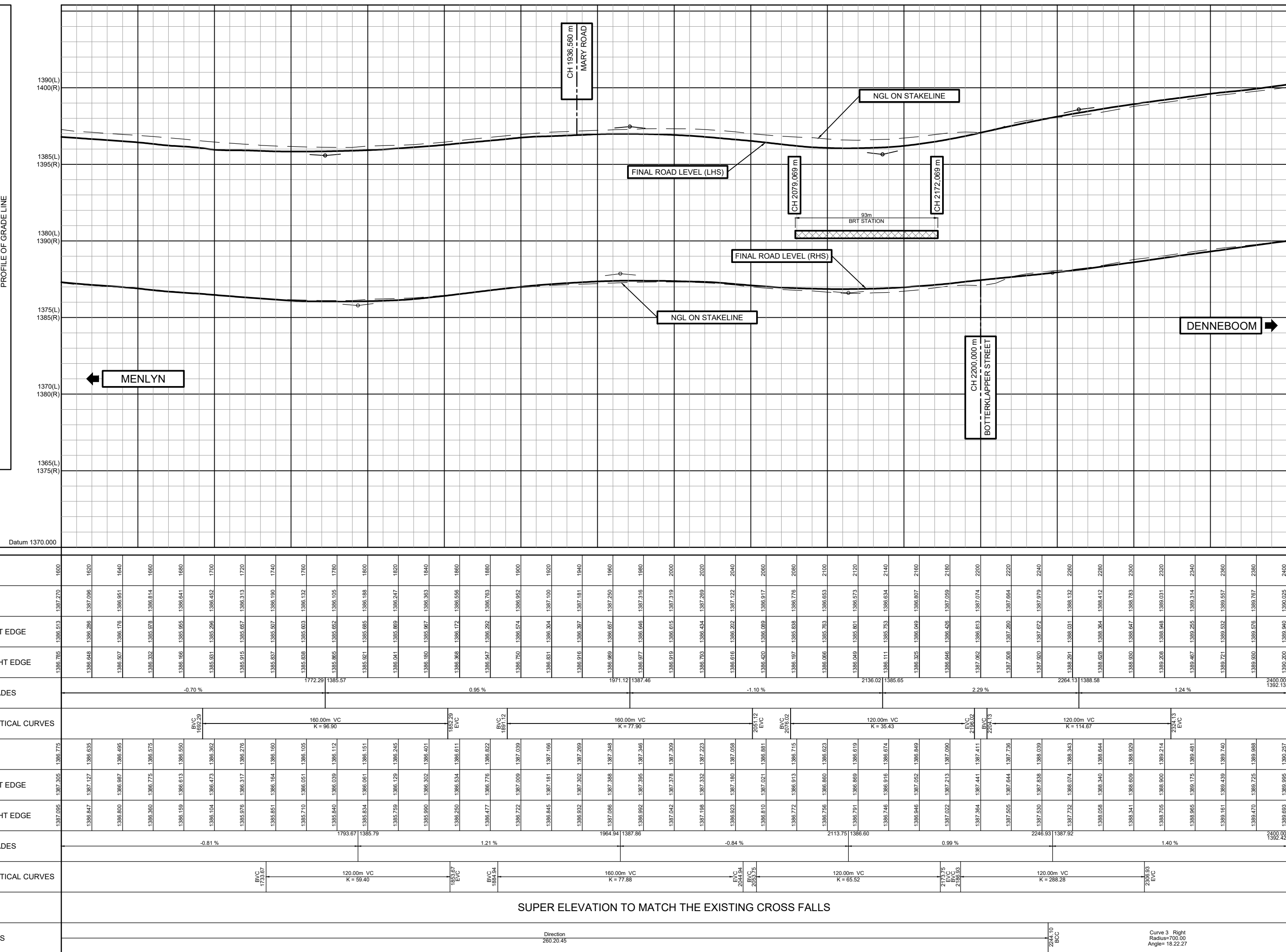
DESCRIPTION OF DRAWING

LYNNWOOD ROAD WP2
LONGITUDINAL SECTION
SHEET 2 OF 5

CONTRACT No. 1	PROJECT No. 1
DATE: 27/05/2022	SCALE: AS SHOWN
DRAWING NO. J 2145/02/LS/002	SHEET NO. 1



SCALE H: 1:1000
V: 1:100



LONG SECTION 1600 TO 2400

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS
 6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS. (IF APPLICABLE)
 7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
 8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAW
1	2024-02-24	OK	ISSUED FOR APPROVAL	
2	2024-02-24	OK	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
CHECKED		CHECKED	
DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
		MANAGEMENT	

PROJECT STATUS			

PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SIGNATURE	SIGNATURE AND P. NO.	DATE

BAHLAPHING CONSULTING

BC Bahlaphing consulting

306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

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e: info@bahlaphing.com
www.bahlaphing.com

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Mr Imelda Tshwene
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. I. Lelashane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

SIGNATURE:	DATE:

DESCRIPTION OF PROJECT:

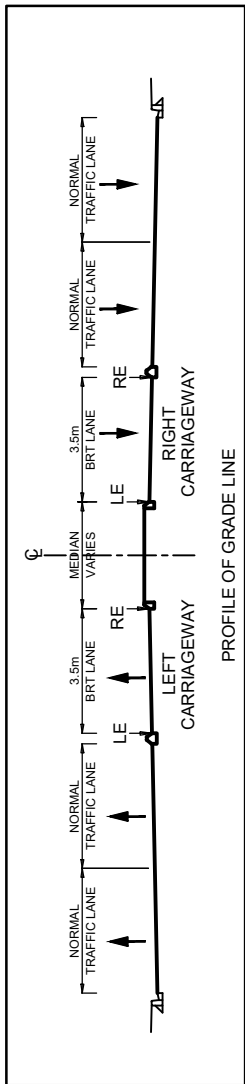
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

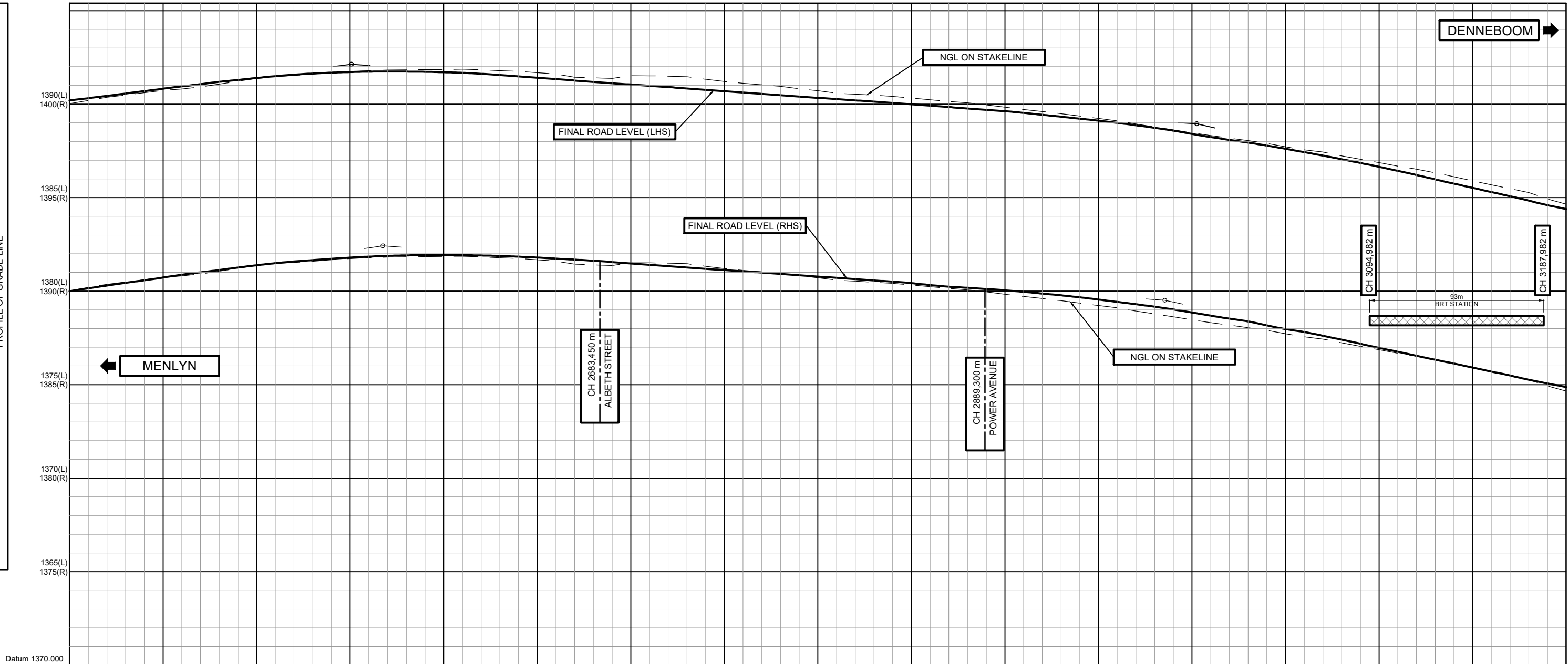
LYNNWOOD ROAD - WP2
LONGITUDINAL SECTION
SHEET 3 OF 5

CONTRACT No. 1	PROJECT No. 1
DATE 1	SCALE 1
27/05/2022	AS SHOWN
DRAWING NO.	SHEET NO.
J 2145/02/LS/003	1





SCALE H: 1:1000
V: 1:100



CHAINAGES		2400	
C/L PEG LEVELS		1390.024 1390.046 1390.065 1390.081 1390.096 1390.111 1390.126 1390.141 1390.156 1390.171 1390.186 1390.201 1390.216 1390.231 1390.246 1390.261 1390.276 1390.291 1390.306 1390.321 1390.336 1390.351 1390.366 1390.381 1390.396 1390.411 1390.426 1390.441 1390.456 1390.471 1390.486 1390.501 1390.516 1390.531 1390.546 1390.561 1390.576 1390.591 1390.606 1390.621 1390.636 1390.651 1390.666 1390.681 1390.696 1390.711 1390.726 1390.741 1390.756 1390.771 1390.786 1390.801 1390.816 1390.831 1390.846 1390.861 1390.876 1390.891 1390.906 1390.921 1390.936 1390.951 1390.966 1390.981 1390.996 1391.011 1391.026 1391.041 1391.056 1391.071 1391.086 1391.101 1391.116 1391.131 1391.146 1391.161 1391.176 1391.191 1391.206 1391.221 1391.236 1391.251 1391.266 1391.281 1391.296 1391.311 1391.326 1391.341 1391.356 1391.371 1391.386 1391.401 1391.416 1391.431 1391.446 1391.461 1391.476 1391.491 1391.506 1391.521 1391.536 1391.551 1391.566 1391.581 1391.596 1391.611 1391.626 1391.641 1391.656 1391.671 1391.686 1391.701 1391.716 1391.731 1391.746 1391.761 1391.776 1391.791 1391.806 1391.821 1391.836 1391.851 1391.866 1391.881 1391.896 1391.911 1391.926 1391.941 1391.956 1391.971 1391.986 1391.001 1391.016 1391.031 1391.046 1391.061 1391.076 1391.091 1391.106 1391.121 1391.136 1391.151 1391.166 1391.181 1391.196 1391.211 1391.226 1391.241 1391.256 1391.271 1391.286 1391.301 1391.316 1391.331 1391.346 1391.361 1391.376 1391.391 1391.406 1391.421 1391.436 1391.451 1391.466 1391.481 1391.496 1391.511 1391.526 1391.541 1391.556 1391.571 1391.586 1391.601 1391.616 1391.631 1391.646 1391.661 1391.676 1391.691 1391.706 1391.721 1391.736 1391.751 1391.766 1391.781 1391.796 1391.811 1391.826 1391.841 1391.856 1391.871 1391.886 1391.901 1391.916 1391.931 1391.946 1391.961 1391.976 1391.991 1392.006 1392.021 1392.036 1392.051 1392.066 1392.081 1392.096 1392.111 1392.126 1392.141 1392.156 1392.171 1392.186 1392.201 1392.216 1392.231 1392.246 1392.261 1392.276 1392.291 1392.306 1392.321 1392.336 1392.351 1392.366 1392.381 1392.396 1392.411 1392.426 1392.441 1392.456 1392.471 1392.486 1392.501 1392.516 1392.531 1392.546 1392.561 1392.576 1392.591 1392.606 1392.621 1392.636 1392.651 1392.666 1392.681 1392.696 1392.711 1392.726 1392.741 1392.756 1392.771 1392.786 1392.801 1392.816 1392.831 1392.846 1392.861 1392.876 1392.891 1392.906 1392.921 1392.936 1392.951 1392.966 1392.981 1392.996 1393.011 1393.026 1393.041 1393.056 1393.071 1393.086 1393.101 1393.116 1393.131 1393.146 1393.161 1393.176 1393.191 1393.206 1393.221 1393.236 1393.251 1393.266 1393.281 1393.296 1393.311 1393.326 1393.341 1393.356 1393.371 1393.386 1393.401 1393.416 1393.431 1393.446 1393.461 1393.476 1393.491 1393.506 1393.521 1393.536 1393.551 1393.566 1393.581 1393.596 1393.611 1393.626 1393.641 1393.656 1393.671 1393.686 1393.701 1393.716 1393.731 1393.746 1393.761 1393.776 1393.791 1393.806 1393.821 1393.836 1393.851 1393.866 1393.881 1393.896 1393.911 1393.926 1393.941 1393.956 1393.971 1393.986 1394.001 1394.016 1394.031 1394.046 1394.061 1394.076 1394.091 1394.106 1394.121 1394.136 1394.151 1394.166 1394.181 1394.196 1394.211 1394.226 1394.241 1394.256 1394.271 1394.286 1394.301 1394.316 1394.331 1394.346 1394.361 1394.376 1394.391 1394.406 1394.421 1394.436 1394.451 1394.466 1394.481 1394.496 1394.511 1394.526 1394.541 1394.556 1394.571 1394.586 1394.601 1394.616 1394.631 1394.646 1394.661 1394.676 1394.691 1394.706 1394.721 1394.736 1394.751 1394.766 1394.781 1394.796 1394.811 1394.826 1394.841 1394.856 1394.871 1394.886 1394.901 1394.916 1394.931 1394.946 1394.961 1394.976 1394.991 1395.006 1395.021 1395.036 1395.051 1395.066 1395.081 1395.096 1395.111 1395.126 1395.141 1395.156 1395.171 1395.186 1395.201 1395.216 1395.231 1395.246 1395.261 1395.276 1395.291 1395.306 1395.321 1395.336 1395.351 1395.366 1395.381 1395.396 1395.411 1395.426 1395.441 1395.456 1395.471 1395.486 1395.501 1395.516 1395.531 1395.546 1395.561 1395.576 1395.591 1395.606 1395.621 1395.636 1395.651 1395.666 1395.681 1395.696 1395.711 1395.726 1395.741 1395.756 1395.771 1395.786 1395.801 1395.816 1395.831 1395.846 1395.861 1395.876 1395.891 1395.906 1395.921 1395.936 1395.951 1395.966 1395.981 1395.996 1396.011 1396.026 1396.041 1396.056 1396.071 1396.086 1396.101 1396.116 1396.131 1396.146 1396.161 1396.176 1396.191 1396.206 1396.221 1396.236 1396.251 1396.266 1396.281 1396.296 1396.311 1396.326 1396.341 1396.356 1396.371 1396.386 1396.401 1396.416 1396.431 1396.446 1396.461 1396.476 1396.491 1396.506 1396.521 1396.536 1396.551 1396.566 1396.581 1396.596 1396.611 1396.626 1396.641 1396.656 1396.671 1396.686 1396.701 1396.716 1396.731 1396.746 1396.761 1396.776 1396.791 1396.806 1396.821 1396.836 1396.851 1396.866 1396.881 1396.896 1396.911 1396.926 1396.941 1396.956 1396.971 1396.986 1397.001 1397.016 1397.031 1397.046 1397.061 1397.076 1397.091 1397.106 1397.121 1397.136 1397.151 1397.166 1397.181 1397.196 1397.211 1397.226 1397.241 1397.256 1397.271 1397.286 1397.301 1397.316 1397.331 1397.346 1397.361 1397.376 1397.391 1397.406 1397.421 1397.436 1397.451 1397.466 1397.481 1397.496 1397.511 1397.526 1397.541 1397.556 1397.571 1397.586 1397.601 1397.616 1397.631 1397.646 1397.661 1397.676 1397.691 1397.706 1397.721 1397.736 1397.751 1397.766 1397.781 1397.796 1397.811 1397.826 1397.841 1397.856 1397.871 1397.886 1397.901 1397.916 1397.931 1397.946 1397.961 1397.976 1397.991 1398.006 1398.021 1398.036 1398.051 1398.066 1398.081 1398.096 1398.111 1398.126 1398.141 1398.156 1398.171 1398.186 1398.201 1398.216 1398.231 1398.246 1398.261 1398.276 1398.291 1398.306 1398.321 1398.336 1398.351 1398.366 1398.381 1398.396 1398.411 1398.426 1398.441 1398.456 1398.471 1398.486 1398.501 1398.516 1398.531 1398.546 1398.561 1398.576 1398.591 1398.606 1398.621 1398.636 1398.651 1398.666 1398.681 1398.696 1398.711 1398.726 1398.741 1398.756 1398.771 1398.786 1398.801 1398.816 1398.831 1398.846 1398.861 1398.876 1398.891 1398.906 1398.921 1398.936 1398.951 1398.966 1398.981 1398.996 1399.011 1399.026 1399.041 1399.056 1399.071 1399.086 1399.101 1399.116 1399.131 1399.146 1399.161 1399.176 1399.191 1399.206 1399.221 1399.236 1399.251 1399.266 1399.281 1399.296 1399.311 1399.326 1399.341 1399.356 1399.371 1399.386 1399.401 1399.416 1399.431 1399.446 1399.461 1399.476 1399.491 1399.506 1399.521 1399.536 1399.551 1399.566 1399.581 1399.596 1399.611 1399.626 1399.641 1399.656 1399.671 1399.686 1399.701 1399.716 1399.731 1399.746 1399.761 1399.776 1399.791 1399.806 1399.821 1399.836 1399.851 1399.866 1399.881 1399.896 1399.911 1399.926 1399.941 1399.956 1399.971 1399.986 1400.001 1400.016 1400.031 1400.046 1400.061 1400.076 1400.091 1400.106 1400.121 1400.136 1400.151 1400.166 1400.181 1400.196 1400.211 1400.226 1400.241 1400.256 1400.271 1400.286 1400.301 1400.316 1400.331 1400.346 1400.361 1400.376 1400.391 1400.406 1400.421 1400.436 1400.451 1400.466 1400.481 1400.496 1400.511 1400.526 1400.541 1400.556 1400.571 1400.586 1400.601 1400.616 1400.631 1400.646 1400.661 1400.676 1400.691 1400.706 1400.721 1400.736 1400.751 1400.766 1400.781 1400.796 1400.811 1400.826 1400.841 1400.856 1400.871 1400.886 1400.901 1400.916 1400.931 1400.946 1400.961 1400.976 1400.991 1401.006 1401.021 1401.036 1401.051 1401.066 1401.081 1401.096 1401.111 1401.126 1401.141 1401.156 1401.171 1401.186 1401.201 1401.216 1401.231 1401.246 1401.261 1401.276 1401.291 1401.306 1401.321 1401.336 1401.351 1401.366 1401.381 1401.396 1401.411 1401.426 1401.441 1401.456 1401.471 1401.486 1401.501 1401.516 1401.531 1401.546 1401.561 1401.576 1401.591 1401.606 1401.621 1401.636 1401.651 1401.666 1401.681 1401.696 1401.711 1401.726 1401.741 1401.756 1401.771 1401.786 1401.801 1401.816 1401.831 1401.846 1401.861 1401.876 1401.891 1401.906 1401.921 1401.936 1401.951 1401.966 1401.981 1401.996 1402.011 1402.026 1402.041 1402.056 1402.071 1402.086 1402.101 1402.116 1402.131 1402.146 1402.161 1402.176 1402.191 1402.206 1402.221 1402.236 1402.251 1402.266 1402.281 1402.296 1402.311 1402.326 1402.341 1402.356 1402.371 1402.386 1402.401 1402.416 1402.431 1402.446 1402.461 1402.476 1402.491 1402.506 1402.521 1402.536 1402.551 1402.566 1402.581 1402.596 1402.611 1402.626 1402.641 1402.656 1402.671 1402.686 1402.701 1402.716 1402.731 1402.746 1402.761 1402.776 1402.791 1402.806 1402.821 1402.836 1402.851 1402.866 1402.881 1402.896 1402.911 1402.926 1402.941 1402.956 1402.971 1402.986 1403.001 1403.016 1403.031 1403.046 1403.061 1403.076 1403.091 1403.106 1403.121 1403.136 1403.151 1403.166 1403.181 1403.196 1403.211 1403.226 1403.241 1403.256 1403.271 1403.286 1403.301 1403.316 1403.331 1403.346 1403.361 1403.376 1403.391 1403.406 1403.421 1403.436 1403.451 1403.466 1403.481 1403.496 1403.511 1403.526 1403.541 1403.556 1403.571 1403.586 1403.601 1403.616 1403.631 1403.646 1403.661 1403.676 1403.691 1403.706 1403.721 1403.736 1403.751 1403.766 1403.781 1403.796 1403.811 1403.826 1403.841 1403.856 1403.871 1403.886 1403.901 1403.916 1403.931 1403.946 1403.961 1403.976 1403.991 1404.006 1404.021 1404.036 1404.051 1404.066 1404.081 1404.096 1404.111 1404.126 1404.141 1404.156 1404.171 1404.186 1404.201 1404.216 1404.231 1404.246 1404.261 1404.276 1404.291 1404.306 1404.321 1404.336 1404.351 1404.366 1404.381 1404.396 1404.411 1404.426 1404.441 1404.456 1404.471 1404.486 1404.501 1404.516 1404.531 1404.546 1404.561 1404.576 1404.591 1404.606 1404.621 1404.636 1404.651 1404.666 1404.681 1404.696 1404.711 1404.726 1404.741 1404.756 1404.771 1404.786 1404.801 1404.816 1404.831 1404.846 1404.861 1404.876 1404.891 1404.906 1404.921 1404.936 1404.951 1404.966 1404.981 1404.996 1405.011 1405.026 1405.041 1405.056 1405.071 1405.086 1405.101 1405.116 1405.131 1405.146 1405.161 1405.176 1405.191 1405.206 1405.221 1405.236 1405.251 1405.266 1405.281 1405.296 1405.311 1405.326 1405.341 1405.356 1405.371 1405.386 1405.401 1405.416 1405.431 1405.446 1405.461 1405.476 1405.491 1405.506 1405.521 1405.536 1405.551 1405.566 1405.581 1405.596 1405.611 1405.626 1405.641 1405.656 1405.671 1405.686 1405.701 1405.716 1405.731 1405.746 1405.761 1405.776 1405.791 1405.806 1405.821 1405.836 1405.851 1405.866 1405.881 1405.896 1405.911 1405.926 1405.941 1405.956 1405.971 1405.986 1406.001 1406.016 1406.031 1406.046 1406.061 1406.076 1406.091 1406.106 1406.121 1406.136 1406.151 1406.166 1406.181 1406.196 1406.211 1406.226 1406.241 1406.256 1406.271 1406.286 1406.301 1406.316 1406.331 1406.346 1406.361 1406.376 1406.391 1406.406 1406.421 1406.436 1406.451 1406.466 1406.481 1406.496 1406.511 1406.526 1406.541 1406.556 1406.571 1406.586 1406.601 1406.616 1406.631 1406.646 1406.661 1406.676 1406.691 1406.706 1406.721 1406.736 1406.751 1406.766 1406.781 1406.796 1406.811 1406.826 1406.841 1406.856 1406.871 1406.886 1406.901 1406.916 1406.931 1406.946 1406.961 1406.976 1406.991 1407.006 1407.021 1407.036 1407.051 1407.066 1407.081 1407.096 1407.111 1407.126 1407.141 1407.156 1407.171 1407.186 1407.201 1407.216 1407.231 1407.246 1407.261 1407.276 1407.291 1407.306 1407.321 1407.336 1407.351 1407.366 1407.381 1407.396 1407.411 1407.426 1407.441 1407.456 1407.471 1407.486 1407.501 1407.516 1407.	

LONG SECTION 2400 to 3200

- GENERAL
1. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
 5. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD CTMM DETAIL DRAWINGS.
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 7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
 8. THE SIGNATURE OR INITIALS ON THIS DRAWING, OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
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 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	PAW
1	2024-05-24	OK	REVIEW FOR APPROVAL	
2	2024-05-24	OK	REVIEW FOR APPROVAL	

PROJECT STATUS

DESIGNED

DRWN

DESIGN CHECKED BY

INFRASTRUCTURE TECHNICAL INFORMATION

PROJECT ENGINEER (CONSULTANT)

MANAGER

DETAILS AND SIGNATURE

SIGNATURE AND P. NO.

DATE

BAHLAPHING CONSULTING

BC

Bahlaphing consulting

306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181
t: (012) 348 3038
e: info@bahlaphing.com
www.bahlaphing.com

CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Mr Imelda Tshwane
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

Mr P. I. Leloshane
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT

CONTRACT No. 1

PROJECT No. 1

DATE 1

27/05/2022

SCALE 1

AS SHOWN

ORIGINAL PAPER SIZE

A0

DRAWING NO.

J 2145/02/LS/004

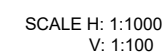
SHEET NO.

1

REVISION

DESCRIPTION OF DRAWING

LYNNWOOD ROAD - WP2
LONGITUDINAL SECTION
SHEET 4 OF 5

LONG SECTION 3200 to 3350

- | | | |
|------------------|-----------|---|
| DRAWING NO. | SHEET NO: | |
| 12145/03/1 S/005 | 4 | |



NOTE:
ASPHALT BASE TO BE CONSTRUCTED
CONFINED SPACES WHERE A CRUSHED
STONE BASE CANNOT BE CONSTRUCTED
EFFICIENTLY

1. **GENERAL**
2. **ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SABS REQUIREMENTS.**
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11. **FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.**

DESIGNED	JJ	DRAWN	JJ
SIGNATURE: _____	DATE: _____	SIGNATURE: _____	DATE: _____
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT	
SIGNATURE: _____	DATE: _____	SIGNATURE: _____	DATE: _____

PROJECT ENGINEER (CONSULTANT)		
INITIALS AND SURNAME	SIGNATURE AND Pr. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHIRANE):		

BC Bahlaphing consulting

306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

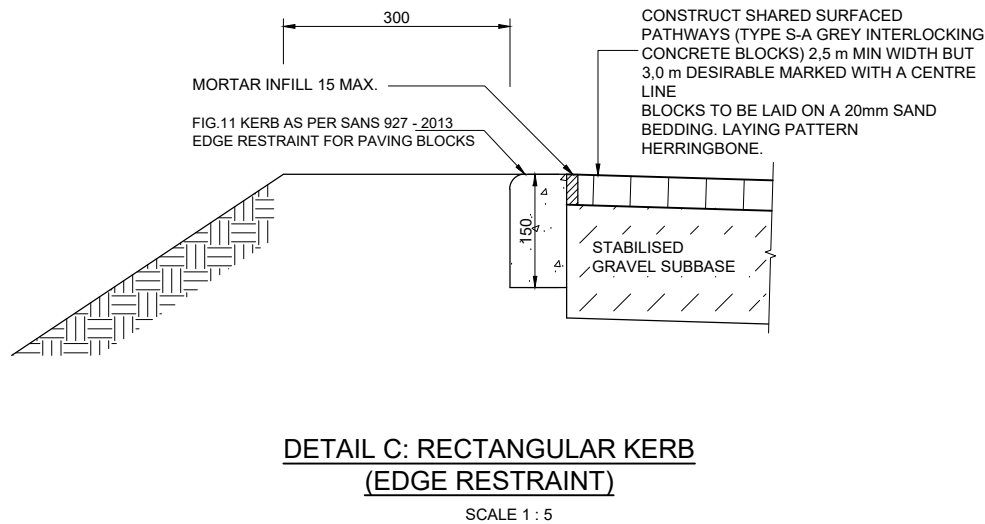
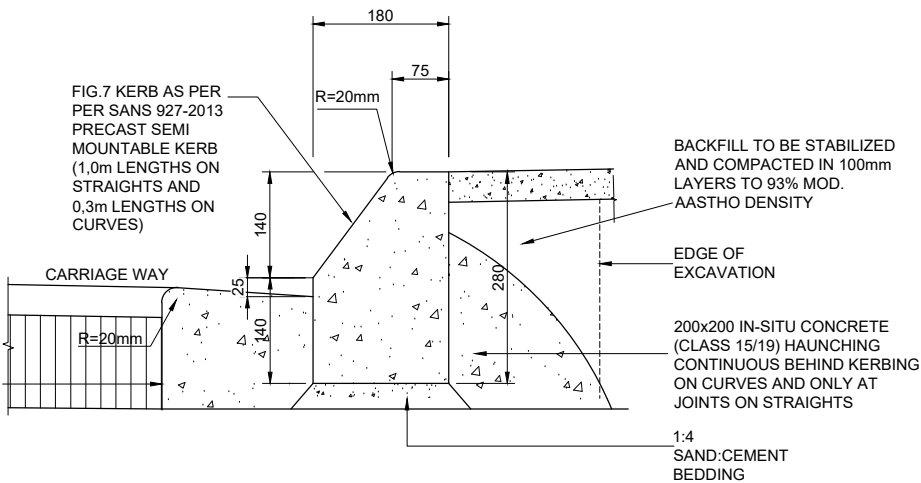
t: (012) 348 3038
e: info@bahlaphing.com
w: www.bahlaphing.com

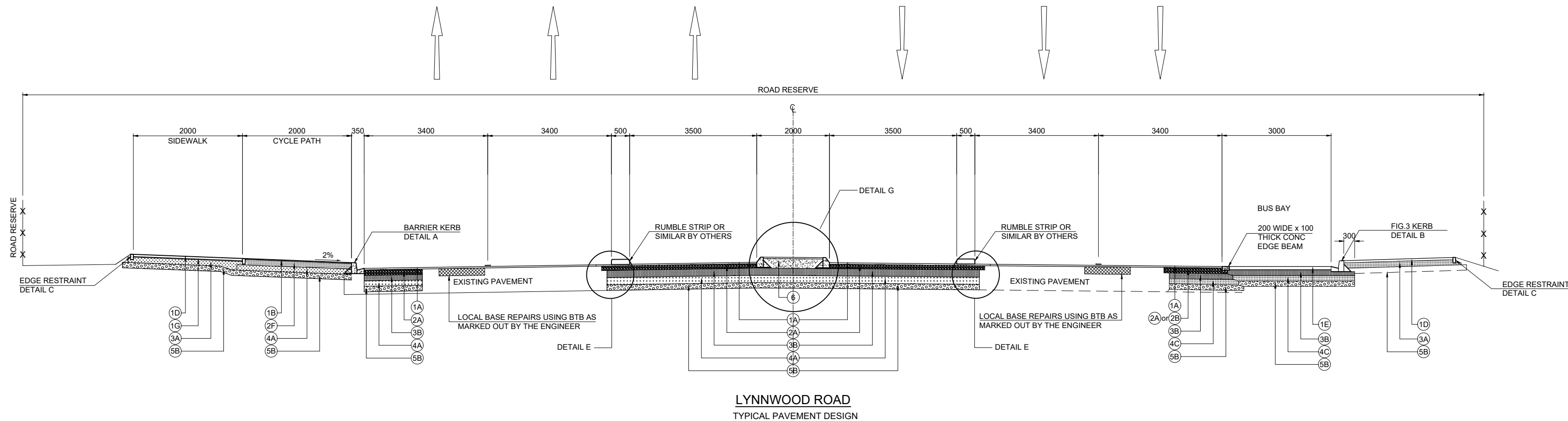
DRAWING APPROVED BY DIVISIONAL HEAD
 Ms Imelda Tshenye
 SIGNATURE: _____ DATE: _____

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
PAVEMENT DESIGN
SHEET 1 of 4

CONTRACT No. :		PROJECT No. :	
DATE :	SCALE :	ORIGINAL PAPER SIZE:	
20/04/2022	AS SHOWN	A0	
DRAWING NO.		SHEET NO:	 REVISION
J 2145/02/PD/001		1	





- GENERAL**
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AMENDMENTS				
NR.	DATE	APPROVED	DESCRIPTION	FWG.
1	25-04-21	CW	ISSUED FOR APPROVAL	
2	01-02-24	CW	ISSUED FOR TENDER	

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	WUWUWUWU
DATE		DATE	
SIGNATURE		SIGNATURE	

PROJECT STATUS	
☐	☒
☐	☐

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME _____ SIGNATURE AND P. No. _____ DATE _____
INSPECTOR OF WORKS (CITY OF TSHWANE):

INITIALS AND SURNAME _____ SIGNATURE AND P. No. _____ DATE _____

BAHLAPHING CONSULTING



306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

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e: info@bahlaphing.com
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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabenye
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001



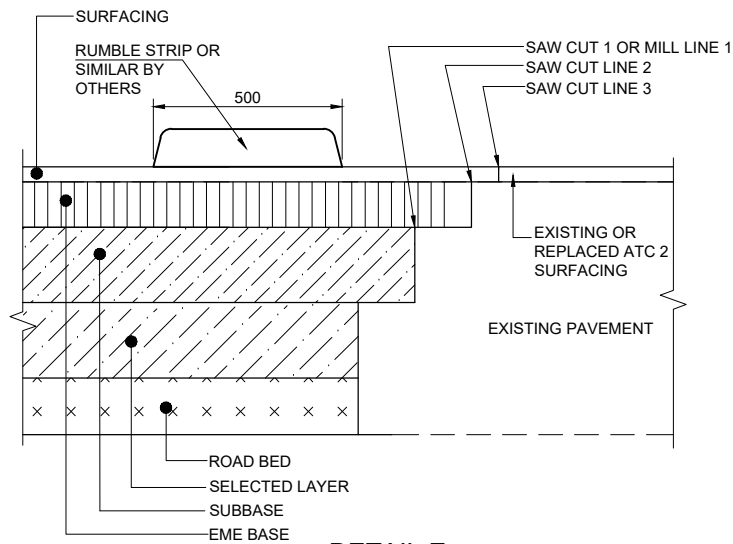
Mr P. J. Lelwani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tabenye
DATE: _____

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
PAVEMENT DESIGN
SHEET 2 of 4**

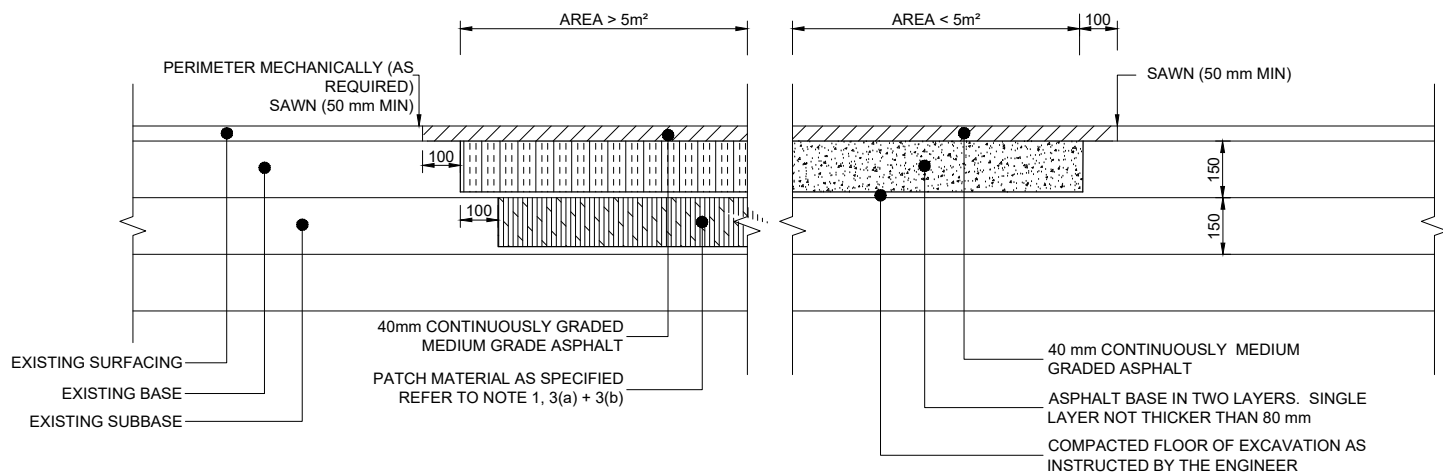
CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/02/PD/002	SHEET NO. 2
	ORIGINAL PAPER SIZE: A0
	REVISION 



DETAIL E
SCALE 1 : 10

NOTE 1:

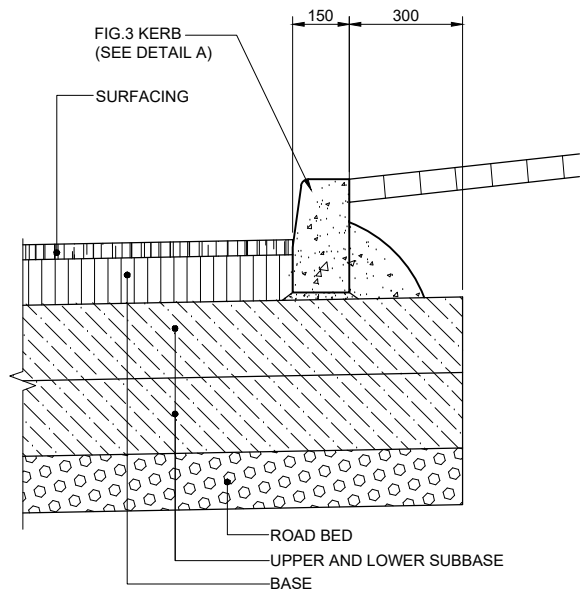
- THE CONSTRUCTION SEQUENCE FOR BOX CUT PAVEMENT SHALL BE AS FOLLOWS:
1. MILL BOX CUT UP TO SAW CUT LINE 1 OR MILL LINE 1 OR SAW CUT AT LEAST 100mm DEEP AND EXCAVATE PAVEMENT UP TO TOP OF SELECTED.
 2. CONSTRUCT SELECTED/ROAD BED AS PER INSTRUCTION BY ENGINEER.
 3. CONSTRUCT BOX UP TO TOP OF SUBBASE WITH STEP BETWEEN SELECTED AND SUBBASE.
 4. SAW CUT AT LINE 2 100mm DEEP AND BENCH.
 5. CONSTRUCT BASE.
 6. SAW CUT AT LINE 3 40mm DEEP AND EXCAVATE BENCH.
 7. TREAT EDGE WITH TACK COAT AND CONSTRUCT SURFACING.



DETAIL F
SCALE 1 : 10

NOTE 1:

1. SAW CUT PERIMETER
2. EXCAVATE SURFACING AND BASE BY HAND AND SPOIL
3. COMPACT FLOOR AS INSTRUCTED BY THE ENGINEER AND BACKFILL TO TOP OF SURFACING WITH:
 - a. BASE G1 MATERIAL STABILISED WITH BITUMEN EMULSION (2% NET BITUMEN) AND 1% CEMENT COMPACTED TO 100% OF MOD. AASHTO DENSITY
 - b. SUBBASE: G5 MATERIAL STABILISED WITH 2% CEMENT COMPACTED TO 97% OF MOD AASHTO DENSITY
4. APPLY DILUTED EMULSION AT 0,5 l / m² TO TOP OF BASE PATCHES AND SIDES OF EXCAVATIONS
5. PLACE ASPHALT SURFACING



GENERAL

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AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	2024-24-24	ON	ISSUED FOR TENDER
2	01-02-24	ON	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
DATE		DATE	

PROJECT STATUS	
PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.
INSPECTOR OF WORKS (CITY OF TSHWANE)	DATE
INITIALS AND SURNAME	SIGNATURE AND P. NO.
DATE	

BAHLAPHING CONSULTING

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabenye
DIVISIONAL HEAD - IPTN DIVISION

Ms P. I. Letsoana
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA
0001

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PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tabenye

SIGNATURE: _____ DATE: _____

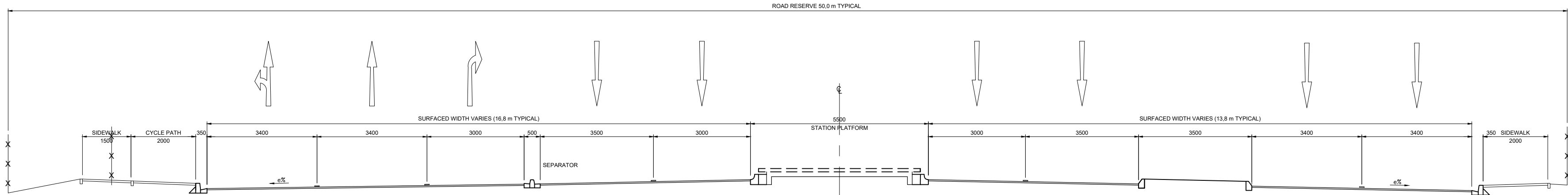
DESCRIPTION OF PROJECT:

**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

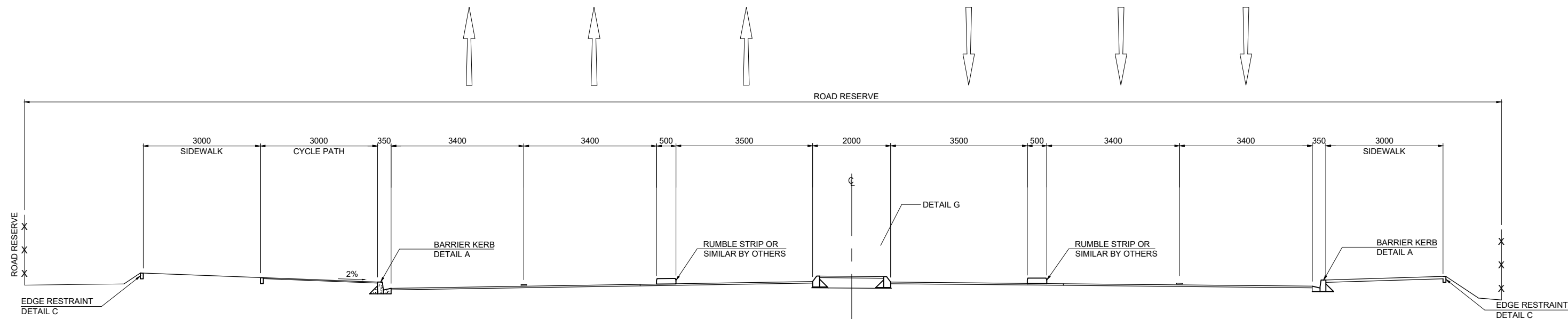
DESCRIPTION OF DRAWING:

**LYNNWOOD ROAD - WP2
PAVEMENT DESIGN
SHEET 3 of 3**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/02/PD/003	SHEET NO: 3
ORIGINAL PAPER SIZE: A0	REVISION



LYNNWOOD ROAD
INDICATING STATION PLATFORM 1



- GENERAL**
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 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-21	CW	ISSUED FOR APPROVAL
2	01-02-24	CW	ISSUED FOR TENDER

DESIGNED		DRAWN	
	JJ		JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
DATE		DATE	

PROJECT STATUS			

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME SIGNATURE AND P. No. DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME SIGNATURE AND P. No. DATE

BAHLAPHING CONSULTING

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www.bahlaphing.com

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION

P.O. BOX 1409
PRETORIA
0001

Mr P. J. Lelake
EXECUTIVE DIRECTOR

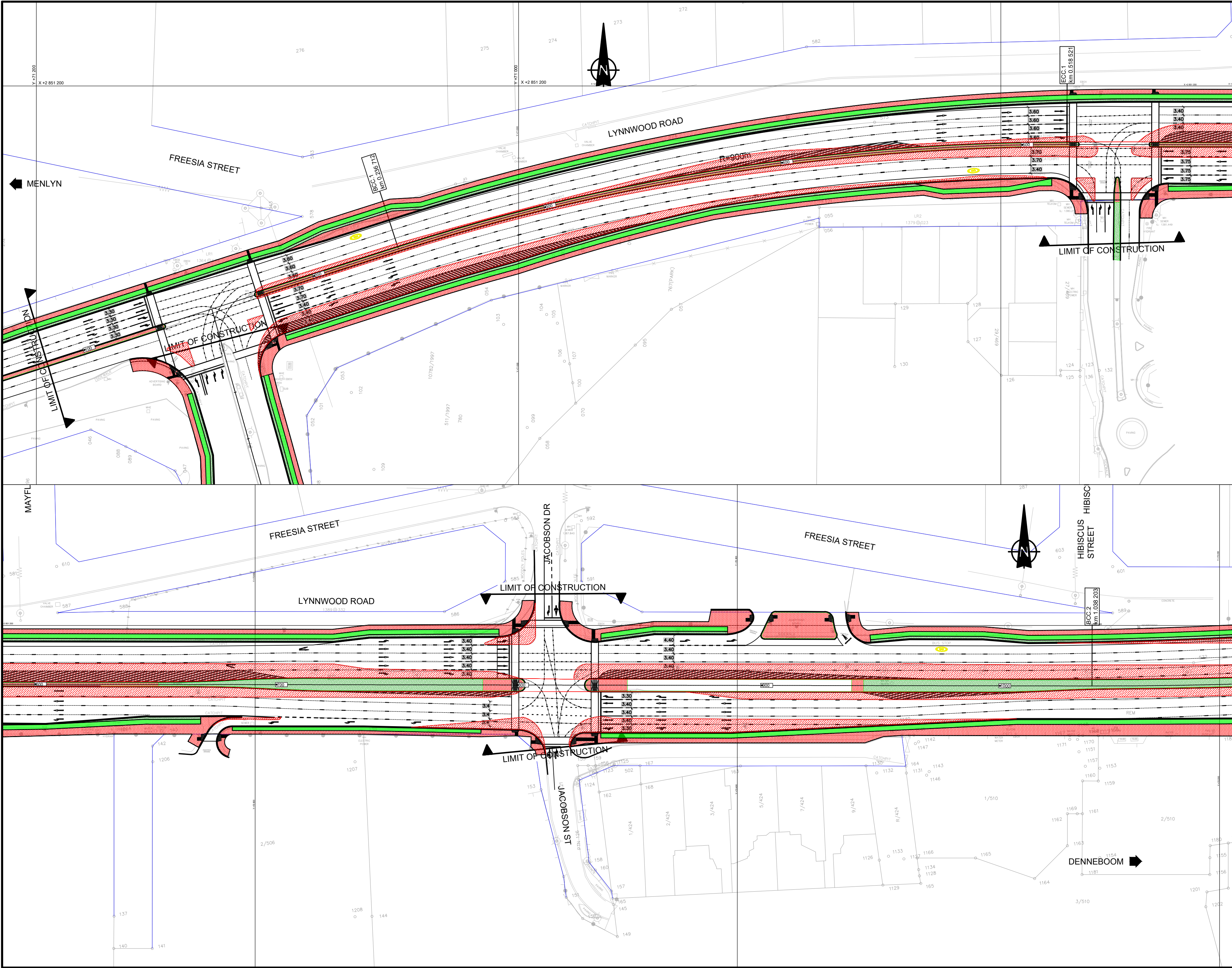
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tabonye

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
TYPICAL CROSS SECTION**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : AS SHOWN
DRAWING NO. J 2145/02/TCS/001	SHEET NO. 1
ORIGINAL PAPER SIZE: A0	REVISION 1



NOTES AND SPECIFICATIONS

GENERAL

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LEGEND

- ROAD WIDENING
- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- TRT STATIONS
- TRT BARRIER KERB
- TRT LANE
- CADASTRAL BOUNDARY

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	21-02-24	OK	ISSUED FOR APPROVAL
2	01-07-24	OK	ISSUED FOR TENDER

PROJECT STATUS	
DESIGNED	DRAWN
OK	OK

PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.

INSPECTOR OF WORKS (CITY OF TSHWANE)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.

BAHLAPHING CONSULTING

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Mr P. J. Leshwani
EXECUTIVE DIRECTOR

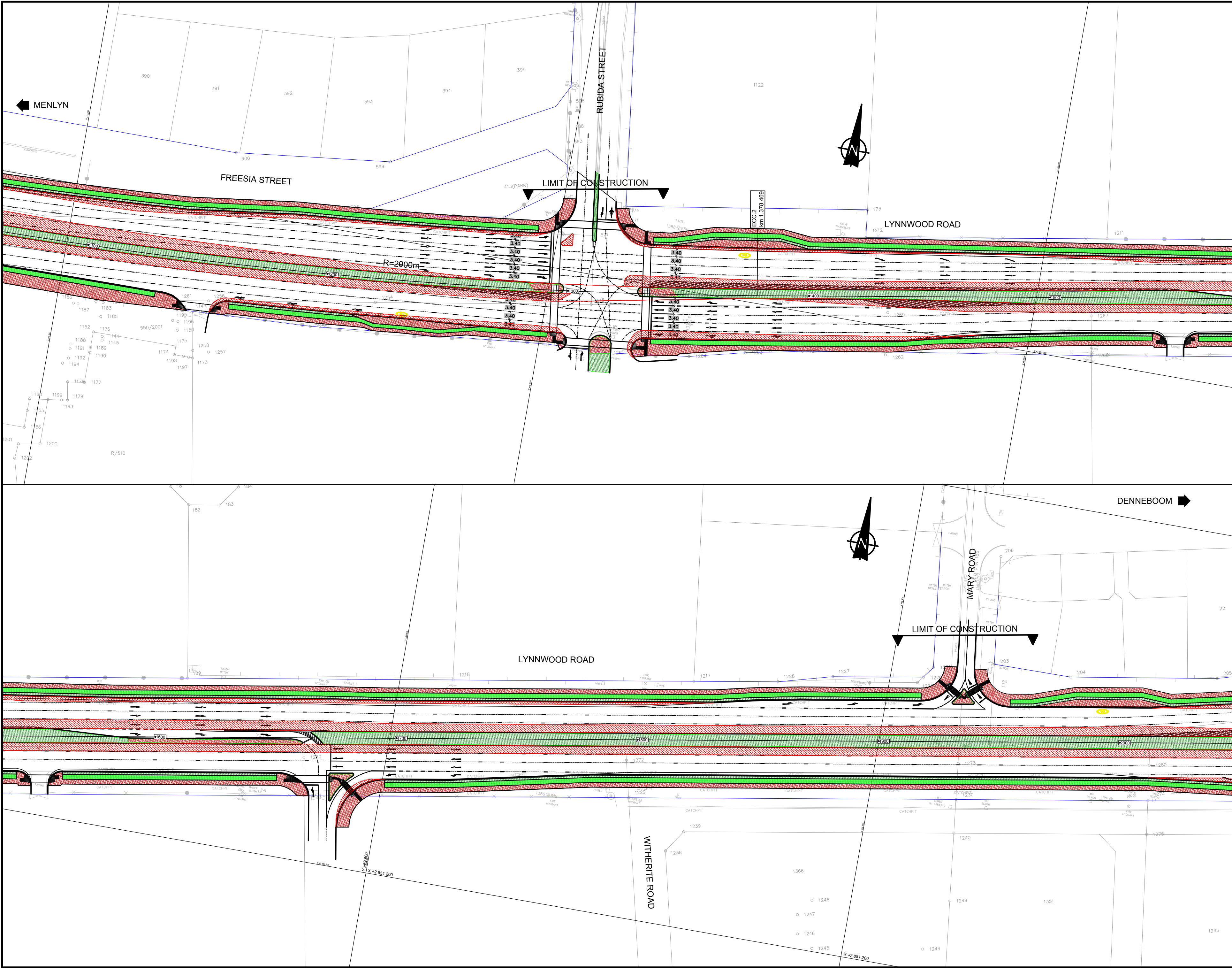
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PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

DESCRIPTION OF PROJECT:
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:
LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 1 OF 4

CONTRACT NO. :		PROJECT NO. :	
DATE :	27/05/2022	SCALE :	1:500
DRAWING NO. :	J 2145/02/RM/001	ORIGINAL PAPER SIZE :	A0
SHEET NO. :	3	REVISION :	



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LEGEND

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- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- TRT STATIONS
- TRT BARRIER KERB
- TRT LANE
- CADASTRAL BOUNDARY

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	01-02-24	CW	ISSUED FOR APPROVAL
2	01-02-24	CW	ISSUED FOR TENDER

DESIGNED BY	AA	DRAWN BY	AA
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION MANAGER	D.J. CHAMBERS

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT): **Bahlaphing Consulting**

INITIALS AND SURNAME: _____ DATE: _____

INSPECTOR OF WORKS (CITY OF TSHWANE): _____ DATE: _____

BHLAPHING CONSULTING

Bahlaphing Consulting

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CITY OF TSHWANE
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Mr P. L. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

SIGNATURE: _____ DATE: _____

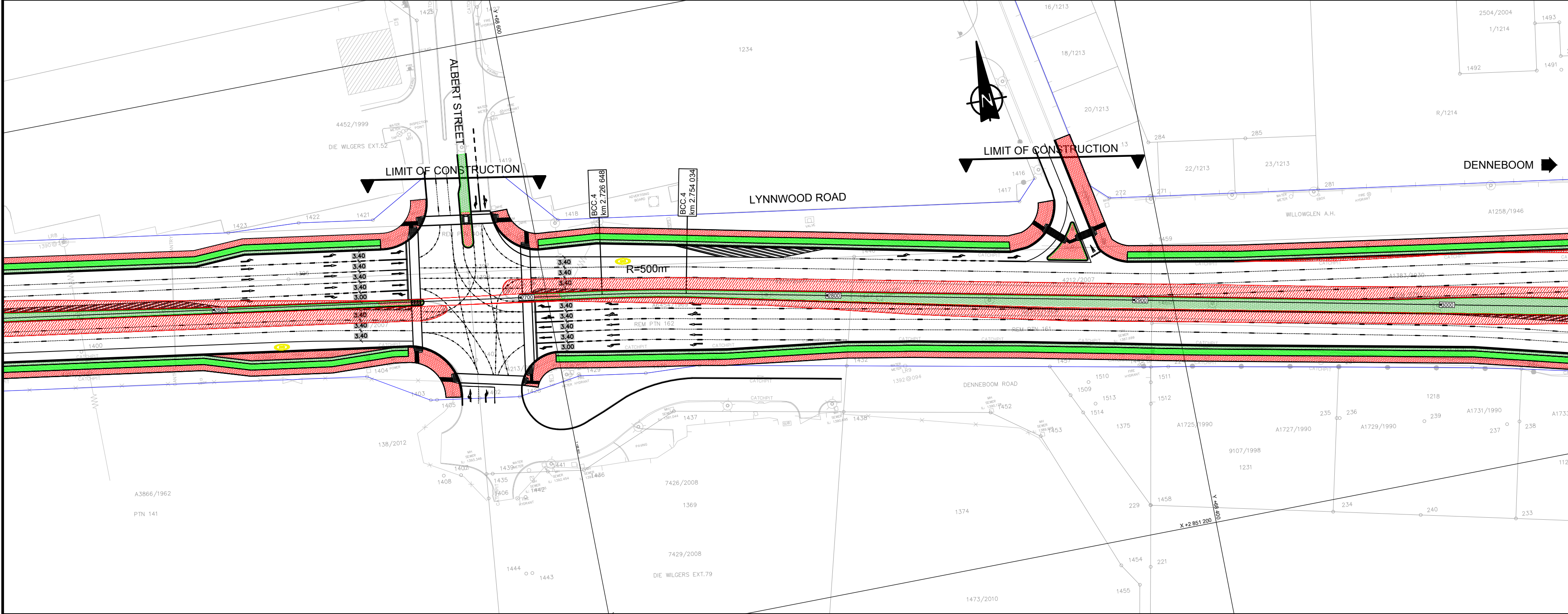
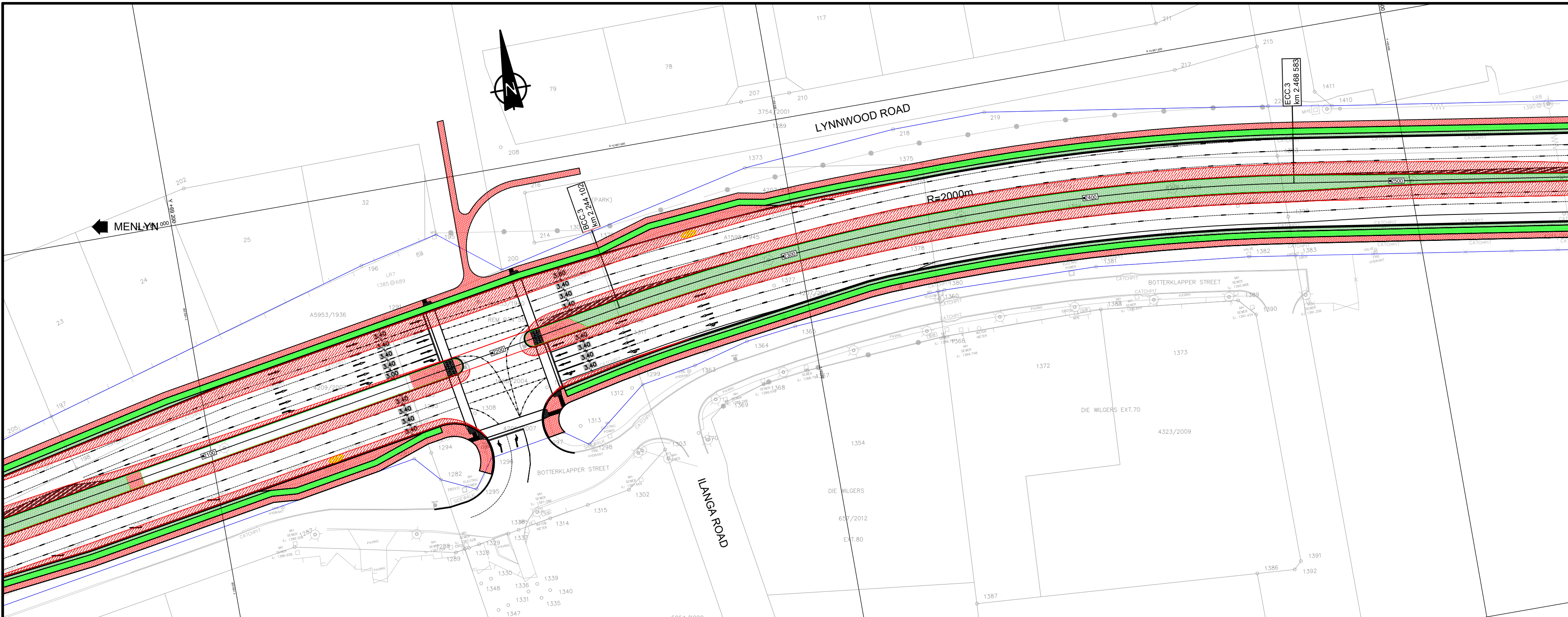
DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 2 OF 4**

CONTRACT NO. 1	PROJECT NO. 1
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/RM/002	SHEET NO. 3

ORIGINAL PAPER SIZE: A0

REVISION:



NOTES AND SPECIFICATIONS

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- PEDESTRIAN WALKWAY
- CYCLE LANE
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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	01-07-24	CW	ISSUED FOR APPROVAL	1
2	01-07-24	CW	ISSUED FOR TENDER	1

DESIGNED		DRAWN	
AI	AI	AI	AI
DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT	
CW		D.J. CHAMBERS	

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CITY OF TSHWANE)
AI	AI

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
AI	AI	AI

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
AI	AI	AI

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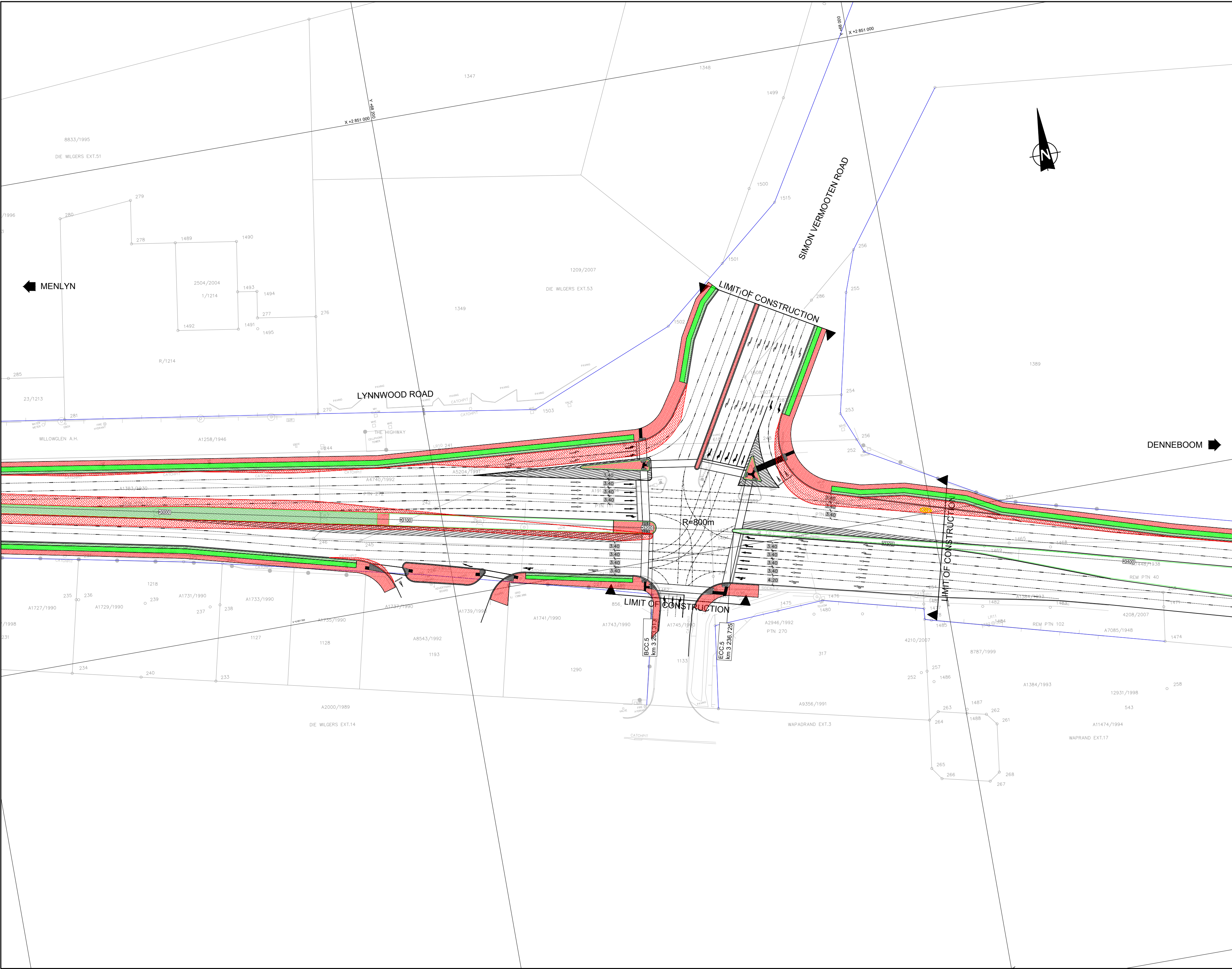
DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 3 OF 4**

CONTRACT NO. :	PROJECT NO. :
2145/02RM/003	AI

DATE :	SCALE :	ORIGINAL PAPER SIZE :
27/05/2022	1:500	A0

DRAWING NO.	SHEET NO.	REVISION
J 2145/02RM/003	3	AI



NOTES AND SPECIFICATIONS

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- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- TRT STATIONS
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- TRT LANE
- CADASTRAL BOUNDARY

AMENDMENTS		
NR.	DATE	DESCRIPTION
1	21-02-24	ISSUED FOR APPROVAL
2	01-02-24	ISSUED FOR TENDER

DESIGNED	DATE	BY	DATE	BY
JJ		JJ		

DESIGN CHECKED BY	DATE	INFRASTRUCTURE TECHNICAL INFORMATION
CW		D.J. CHALMERS

PROJECT STATUS	
☒ DESIGN	☐ APPROVED FOR CONSTRUCTION
☐ PROJECT ENGINEER (CONSULTANT)	☐ PROJECT ENGINEER (CITY OF TSHWANE)

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
RESPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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DIVISIONAL HEAD - IPTN DIVISION
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PRETORIA 0001

Mr P. I. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
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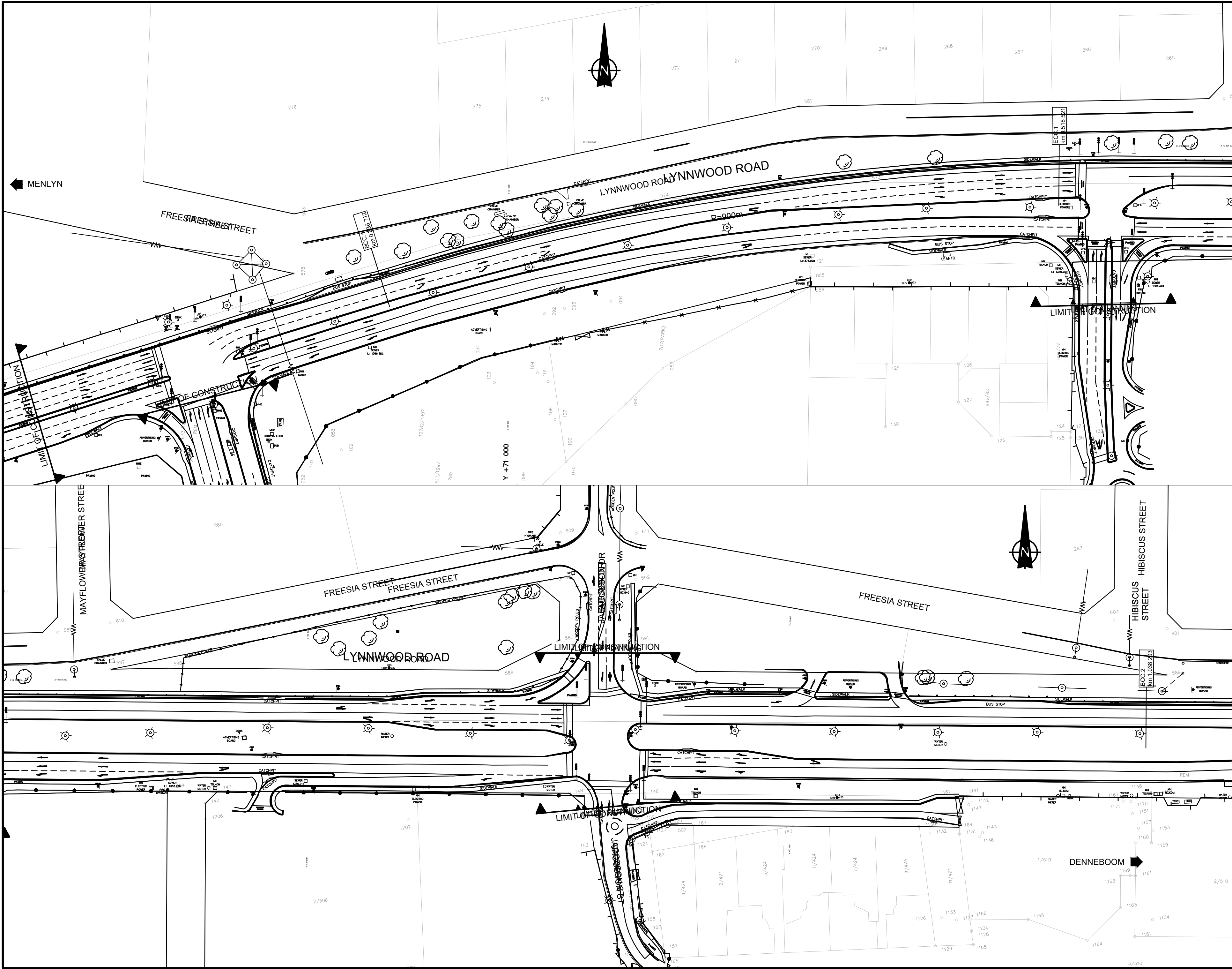
DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tabonye

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
ROAD MARKING LAYOUT
SHEET 4 OF 4**

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : 1:500

DRAWING No.	SHEET No.	REVISION
J 2145/02/RM/004	3	



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AMENDMENTS				
NO.	DATE	APPROVED	DESCRIPTION	FWG
1	22-05-24	ON	ISSUED FOR TENDER	
2	01-07-24	ON	ISSUED FOR TENDER	

DESIGNED BY: JJ

DESIGN CHECKED BY: CFW

PROJECT ENGINEER (CONSULTANT):

INITIALS AND SURNAME: SIGNATURE AND P. NO. DATE

INSPECTOR OF WORKS (CITY OF TSHWANE):

INITIALS AND SURNAME: SIGNATURE AND P. NO. DATE

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT):

INITIALS AND SURNAME: SIGNATURE AND P. NO. DATE

INSPECTOR OF WORKS (CITY OF TSHWANE):

INITIALS AND SURNAME: SIGNATURE AND P. NO. DATE

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CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION

Ms P. I. Leshana
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

P.O. BOX 1409
PRETORIA 0001

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No. 1

PROJECT No. 1

DATE: 27/05/2022

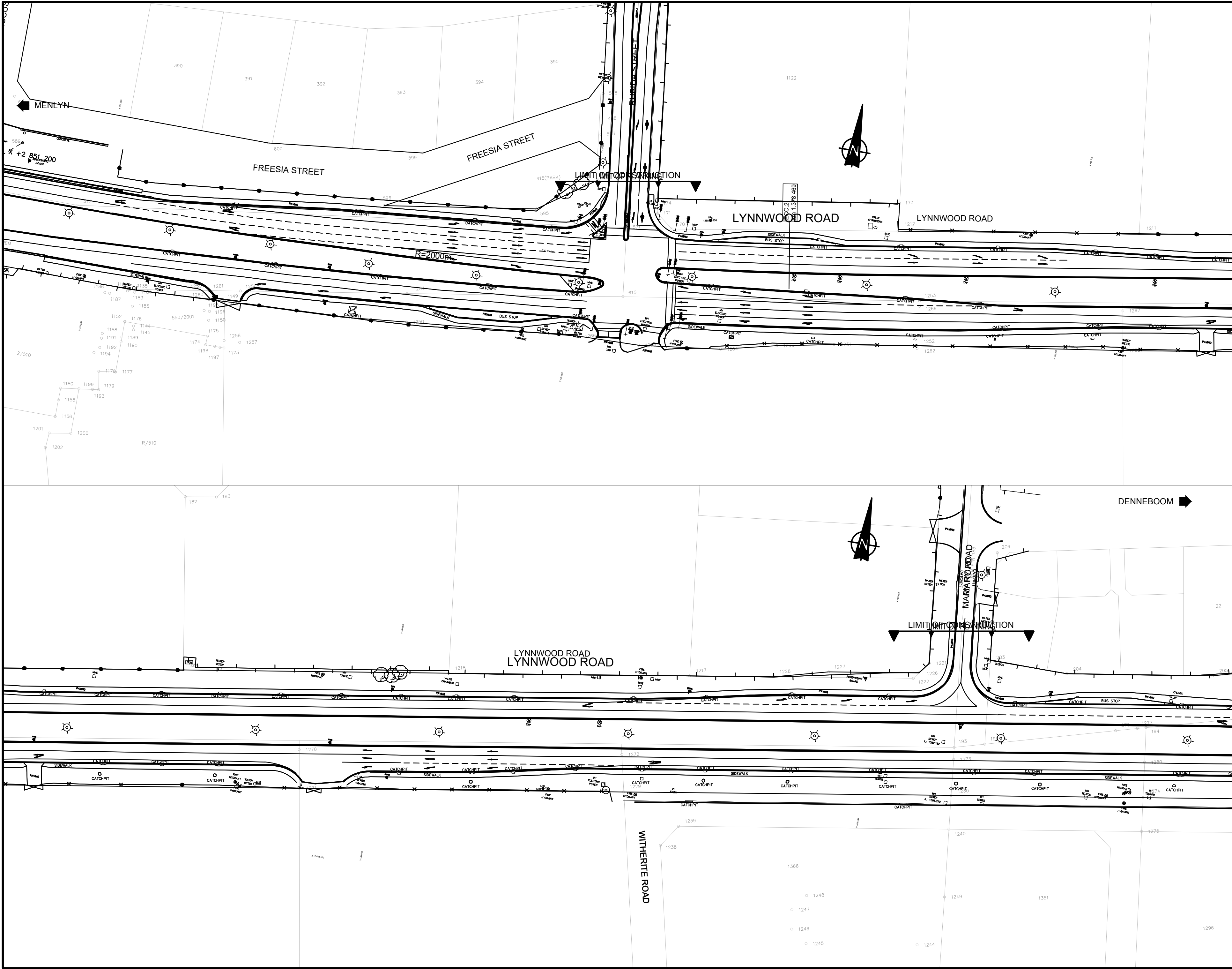
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ORIGINAL PAPER SIZE: A0

DRAWING NO. J 2145/02/S/001

SHEET NO. 1

REVISION



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AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FWG
A	25-05-22	OR	ISSUED FOR TENDERS	
B	01-07-22	OR	ISSUED FOR TENDERS	

DESIGNED

JJ

DESIGN CHECKED BY

CW

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

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BC

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ROADS AND TRANSPORT DEPARTMENT

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DIVISIONAL HEAD - RPTN DIVISION

P.O. BOX 1409
PRETORIA 0001

Ms P. L. Lubiano
EXECUTIVE DIRECTOR

P.O. BOX 1409
PRETORIA 0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye

SIGNATURE

DATE

DESCRIPTION OF PROJECT

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No. :

PROJECT No. :

DATE :

27/05/2022

SCALE :

1:500

ORIGINAL PAPER SIZE:

A0

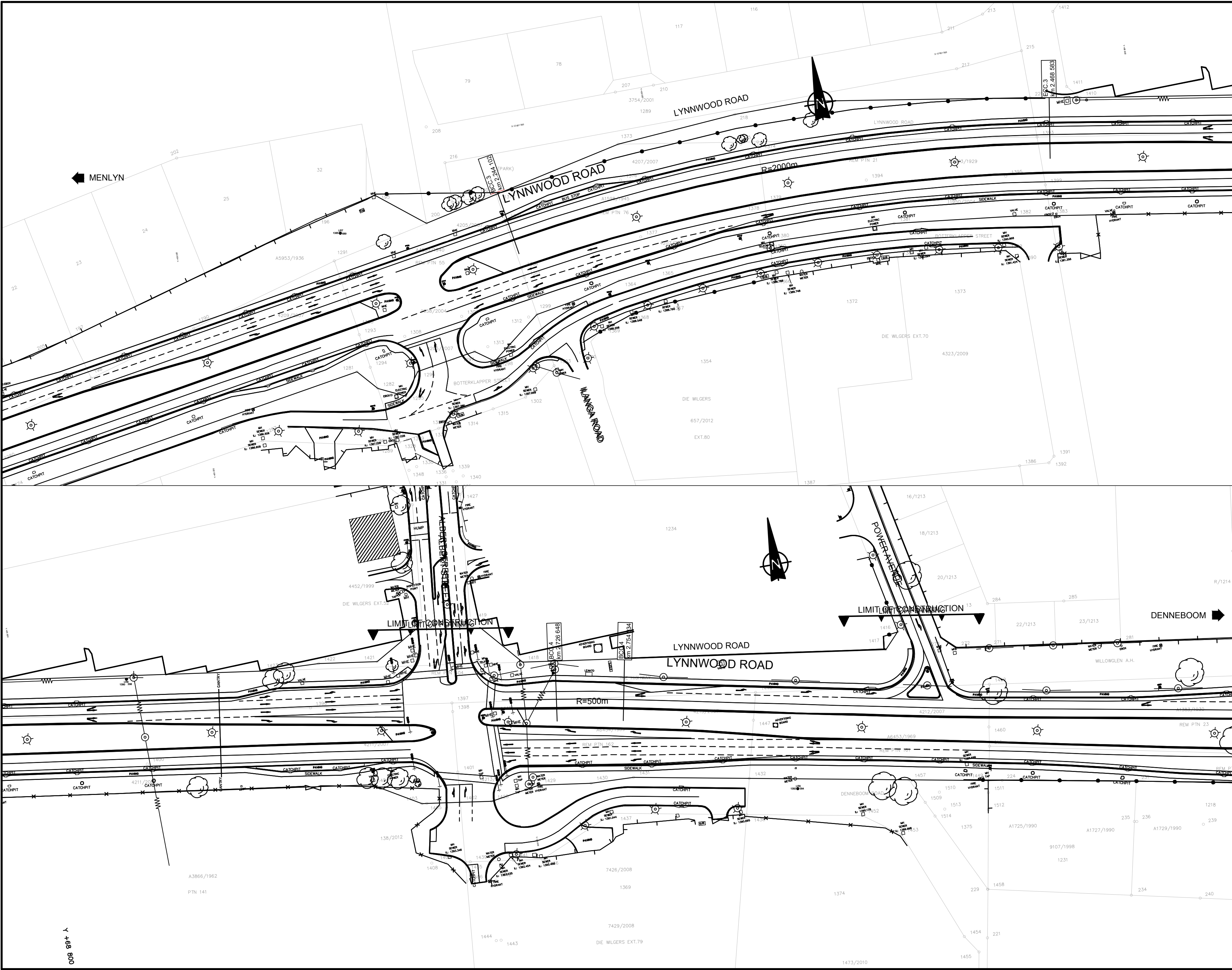
DRAWING NO.

J 2145/02/S/002

SHEET NO.

1

REVISION



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AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FWG
A	28-05-24	OR	ISSUED FOR TENDER	
B	01-07-24	OR	ISSUED FOR TENDER	

DESIGNED BY

DESIGN CHECKED BY

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

PROJECT STATUS

PROPOSED

APPROVED

BLANK

BAHLAPHING CONSULTING

306 Lois Avenue
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www.bahlaphing.com

CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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P.O. BOX 1409
PRETORIA 0001

Ms P. I. Lethlamo
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
SITE SURVEY

CONTRACT No. :

PROJECT No. :

DATE :

27/05/2022

SCALE :

1:500

ORIGINAL PAPER SIZE:

A0

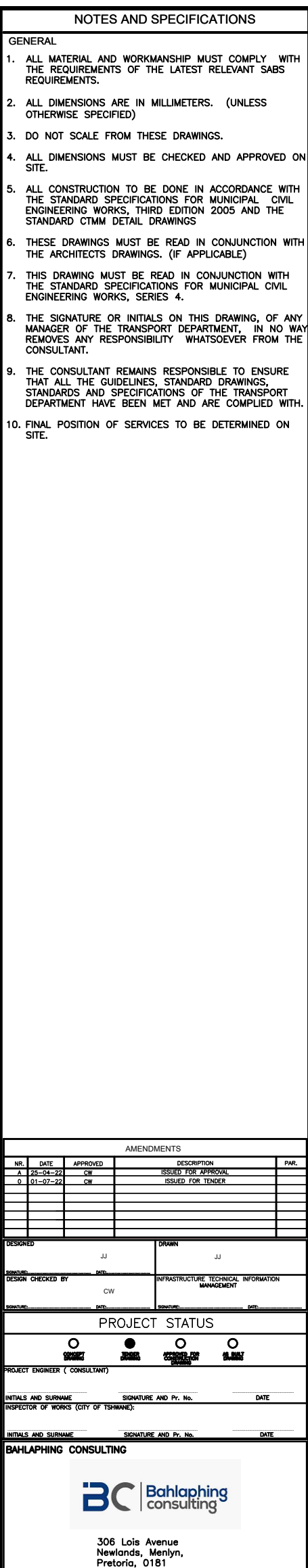
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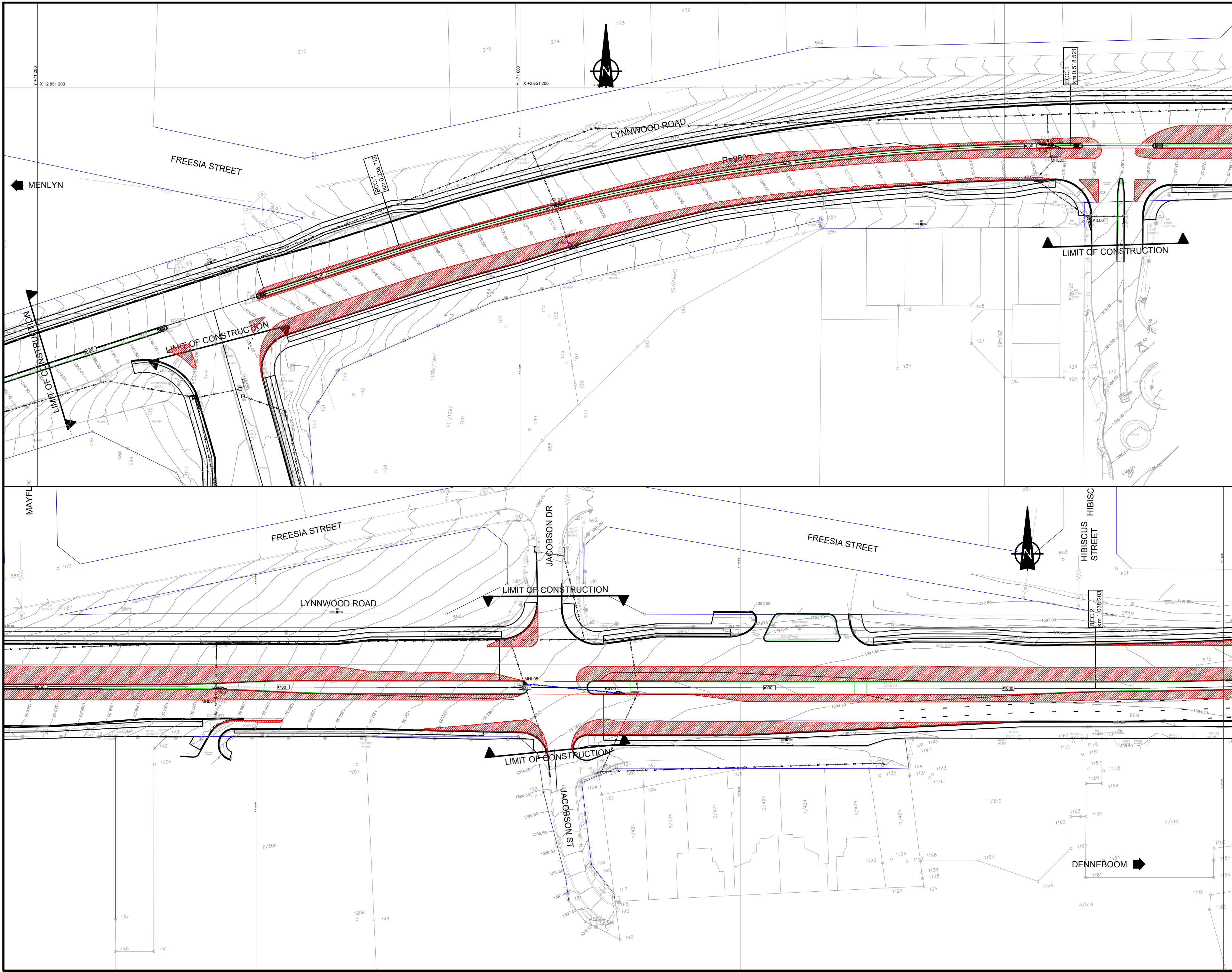
J 2145/02/S/003

SHEET NO.

1

REVISION

[illegible]



NOTES AND SPECIFICATIONS

GENERAL

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10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

LEGEND

- ROAD WIDENING
- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- EXISTING STORMWATER
- NEW STORMWATER
- EXISTING STORMWATER KERB INLET
- NEW STORMWATER KERB INLET

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	2025-02-24	CW	ISSUED FOR APPROVAL
2	2025-02-24	CW	ISSUED FOR TENDER

PROJECT STATUS	
DESIGNED	DRAWN
AI	AI
DESIGN CHECKED BY	
CW	INFRASTRUCTURE TECHNICAL INFORMATION

PROJECT ENGINEER (CONSULTANT)	
INITIALS AND SURNAME	SIGNATURE AND P. NO.
RESPECTOR OF WORKS (CITY OF TSHWANE) <td>DATE</td>	DATE

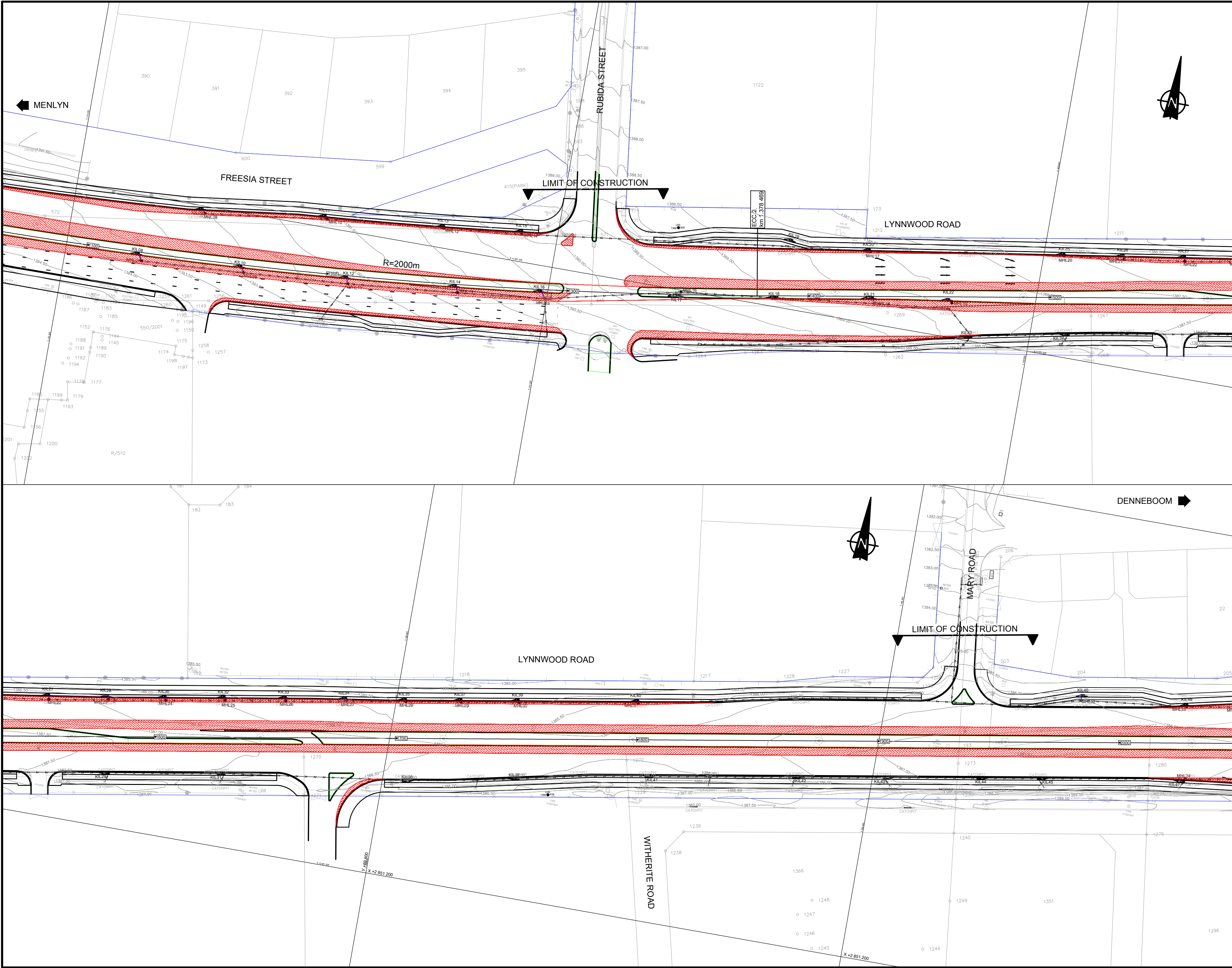
BAHLAPHING CONSULTING	
306 Lois Avenue Newlands, Menlyn, Pretoria, 0181	
t: (012) 348 3038 e: info@bahlaphing.com www.bahlaphing.com	

CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
Ms Imelda Tshenye DIVISIONAL HEAD - RPTN DIVISION P.O. BOX 1409 PRETORIA 0001	Mr P. J. Leluthani EXECUTIVE DIRECTOR P.O. BOX 1409 PRETORIA 0001

DESCRIPTION OF PROJECT	
BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	

DESCRIPTION OF DRAWING	
LYNNWOOD ROAD - WP2 STORMWATER LAYOUT SHEET 1 OF 4	

CONTRACT NO. :		
PROJECT NO. :		
DATE :	SCALE :	ORIGINAL PAPER SIZE :
27/05/2022	1:500	A0
DRAWING NO.	SHEET NO.	REVISION
J 2145/02/SW/001	1	



NOTES AND SPECIFICATIONS

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- PEDESTRIAN WALKWAY
- CYCLE LANE
- MEDIANS / ISLANDS
- EXISTING STORMWATER
- NEW STORMWATER
- EXISTING STORMWATER KERB INLET
- NEW STORMWATER KERB INLET

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	25-05-24	CW	ISSUED FOR APPROVAL
2	01-07-24	CW	ISSUED FOR TENDER

DESIGNED BY	JJ	DRAWN BY	JJ
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

BAHLAPHING CONSULTING

BC Bahlaphing consulting

306 Lois Avenue
Newlands, Menlyn,
Pretoria, 0181

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e: info@bahlaphing.com
www.bahlaphing.com

CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshenye
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA
0001

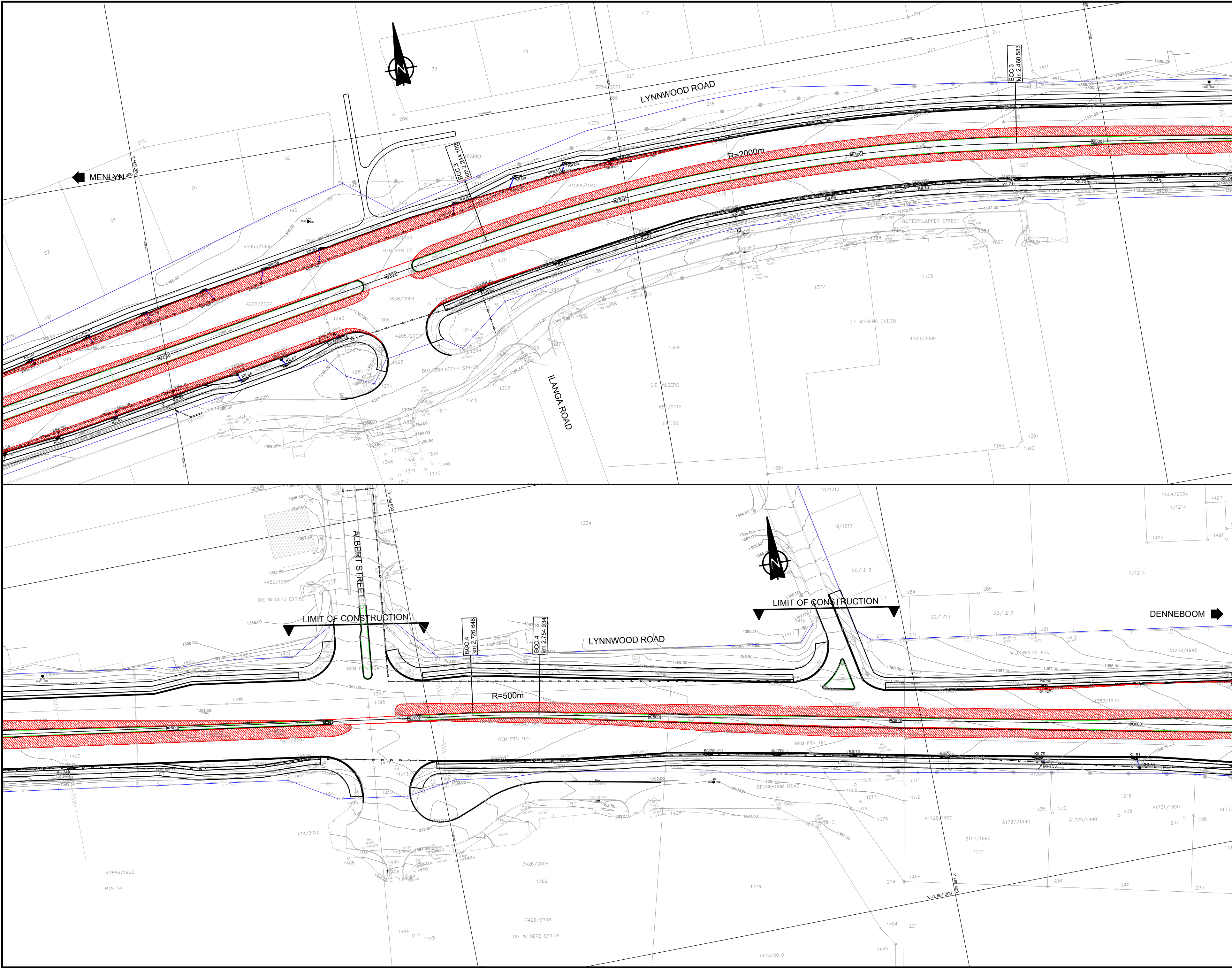
Mr P. J. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

DRAWING APPROVED BY DIVISIONAL HEAD
Ms Imelda Tshenye
DATE

DESCRIPTION OF PROJECT
BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING
LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 2 OF 4

CONTRACT NO. 1	PROJECT NO. 1
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/SW/002	SHEET NO. 2
ORIGINAL PAPER SIZE: A0	REVISION



NOTES AND SPECIFICATIONS

GENERAL

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LEGEND

ROAD WIDENING

PEDESTRIAN WALKWAY

CYCLE LANE

MEDIANS / ISLANDS

EXISTING STORMWATER

NEW STORMWATER

EXISTING STORMWATER KERB INLET

NEW STORMWATER KERB INLET

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	FILE
1	25-05-24	CW	ISSUED FOR APPROVAL	
2	01-07-24	CW	ISSUED FOR TENDER	

DESIGNED

BY

AI

DATE

AI

DESIGN CHECKED BY

CW

INFRASTRUCTURE TECHNICAL INFORMATION

MANAGEMENT

PROJECT STATUS

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. NO.

DATE

BAHLAPHING CONSULTING

BC

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306 Lois Avenue
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Pretoria, 0181
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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tshwene
DIVISIONAL HEAD - RPTN DIVISION
P.O. BOX 1409
PRETORIA 0201

Ms P. L. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA 0201

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 3 OF 4

CONTRACT NO. :

PROJECT NO. :

DATE :

27/05/2022

SCALE :

1:500

ORIGINAL PAPER SIZE:

A0

DRAWING NO.

J 2145/02/LP/003

SHEET NO.

3

REVISION



NOTES AND SPECIFICATIONS

GENERAL

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3.

DO NOT SCALE FROM THESE DRAWINGS.

4.

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5.

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10.

FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

LEGEND

ROAD WIDENING

PEDESTRIAN WALKWAY

CYCLE LANE

MEDIANS / ISLANDS

EXISTING STORMWATER

NEW STORMWATER

EXISTING STORMWATER KERB INLET

NEW STORMWATER KERB INLET

AMENDMENTS

NR.	DATE	APPROVED	DESCRIPTION	FW.
1.	25-04-24	CH	ISSUED FOR APPROVAL	
2.	01-07-24	CH	ISSUED FOR TENDER	

DESIGNED

JJ

DATE

DRAWN

JJ

DATE

DESIGN CHECKED BY

CH

DATE

INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT

PROJECT STATUS

DESIGN

ISSUED FOR APPROVAL

ISSUED FOR TENDER

BLANK

PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME

SIGNATURE AND P. No.

DATE

INSPECTOR OF WORKS (CITY OF TSHWANE)

INITIALS AND SURNAME

SIGNATURE AND P. No.

DATE

BAHLAPHING CONSULTING

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

Ms Imelda Tabonye
DIVISIONAL HEAD - IPTN DIVISION

CITY OF TSHWANE

Ms P. I. Lelaniwane
EXECUTIVE DIRECTOR

CITY OF TSHWANE

P.O. BOX 1409
PRETORIA
0001

P.O. BOX 1409
PRETORIA
0001

DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
STORMWATER LAYOUT
SHEET 4 OF 4

CONTRACT No. :

PROJECT No. :

DATE :

27/05/2022

SCALE :

1:500

ORIGINAL PAPER SIZE:

A0

DRAWING NO.

J 2145/02/SW/004

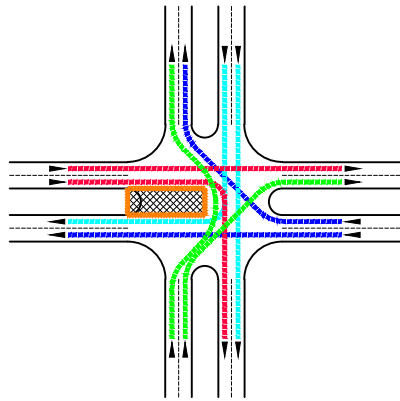
SHEET NO.

4

REVISION

NOTE:
1. THE BRT LANE WILL BE CONSTRUCTED OVER A WEEKEND.
2. THE BRT LANE WILL BE CONSTRUCTED IN 2 STAGES.
3. YELLOW PLASTIC NEW JERSEY BARRIERS AND DELINEATORS WILL BE USED TO LIMIT TRAFFIC TO THE MOVEMENTS AS INDICATED.

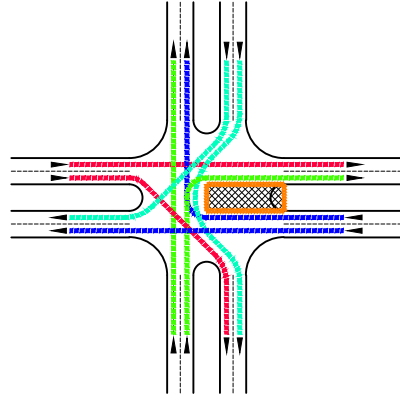
CONSTRUCTION AREA
YELLOW BARRIERS
DELINEATORS



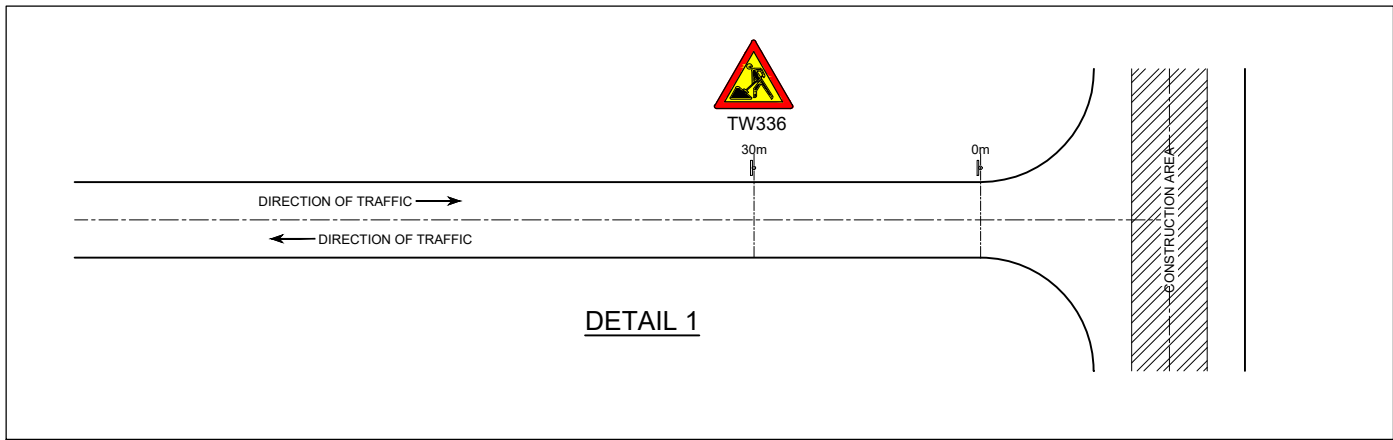
CONSTRUCTION OF BRT LANE AT INTERSECTION
STAGE 1

NOTE:
1. THE BRT LANE WILL BE CONSTRUCTED OVER A WEEKEND.
2. THE BRT LANE WILL BE CONSTRUCTED IN 2 STAGES.
3. YELLOW PLASTIC NEW JERSEY BARRIERS AND DELINEATORS WILL BE USED TO LIMIT TRAFFIC TO THE MOVEMENTS AS INDICATED.

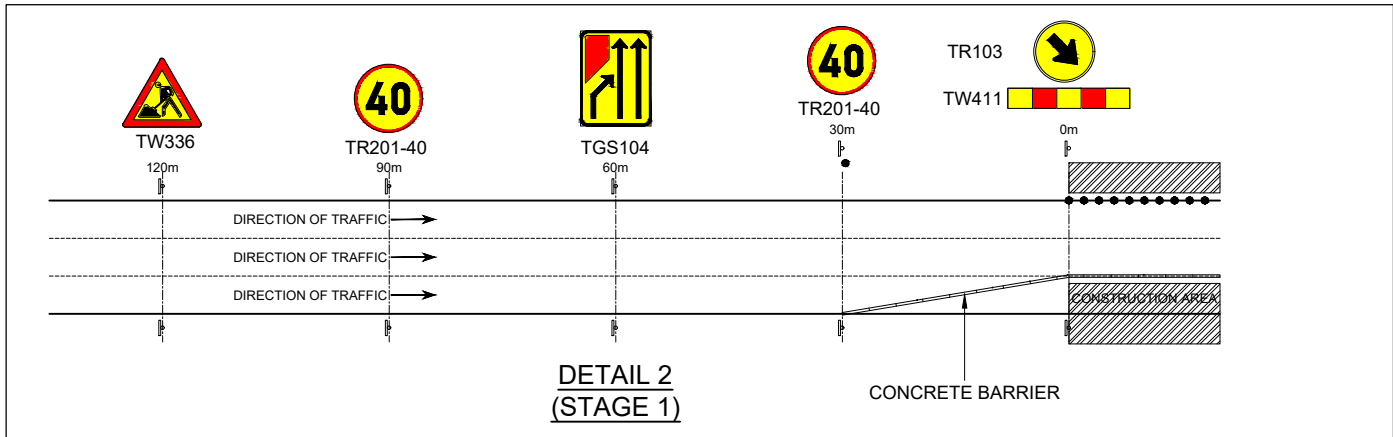
CONSTRUCTION AREA
YELLOW BARRIERS
DELINEATORS



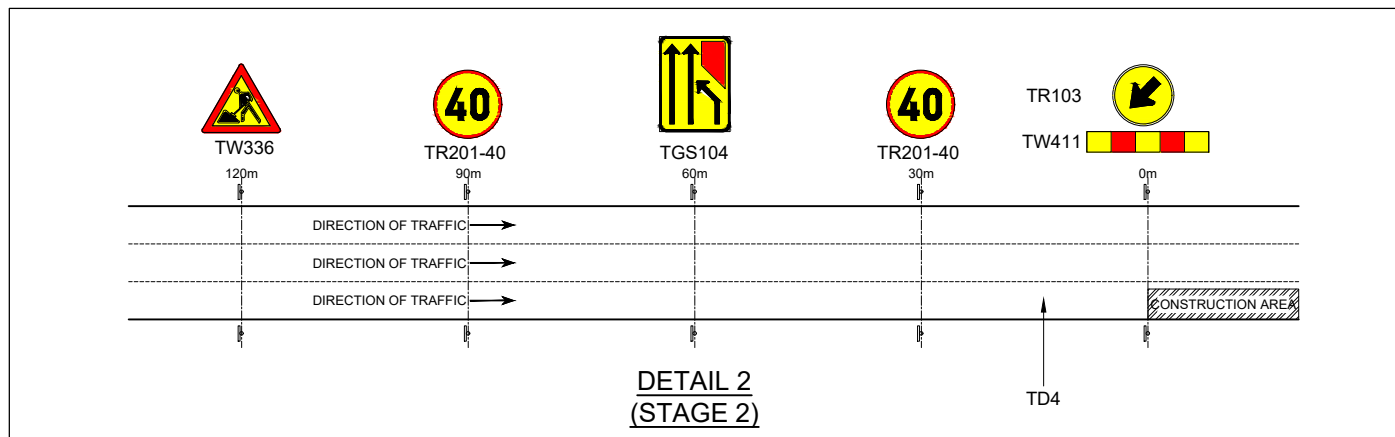
CONSTRUCTION OF BRT LANE AT INTERSECTION
STAGE 2



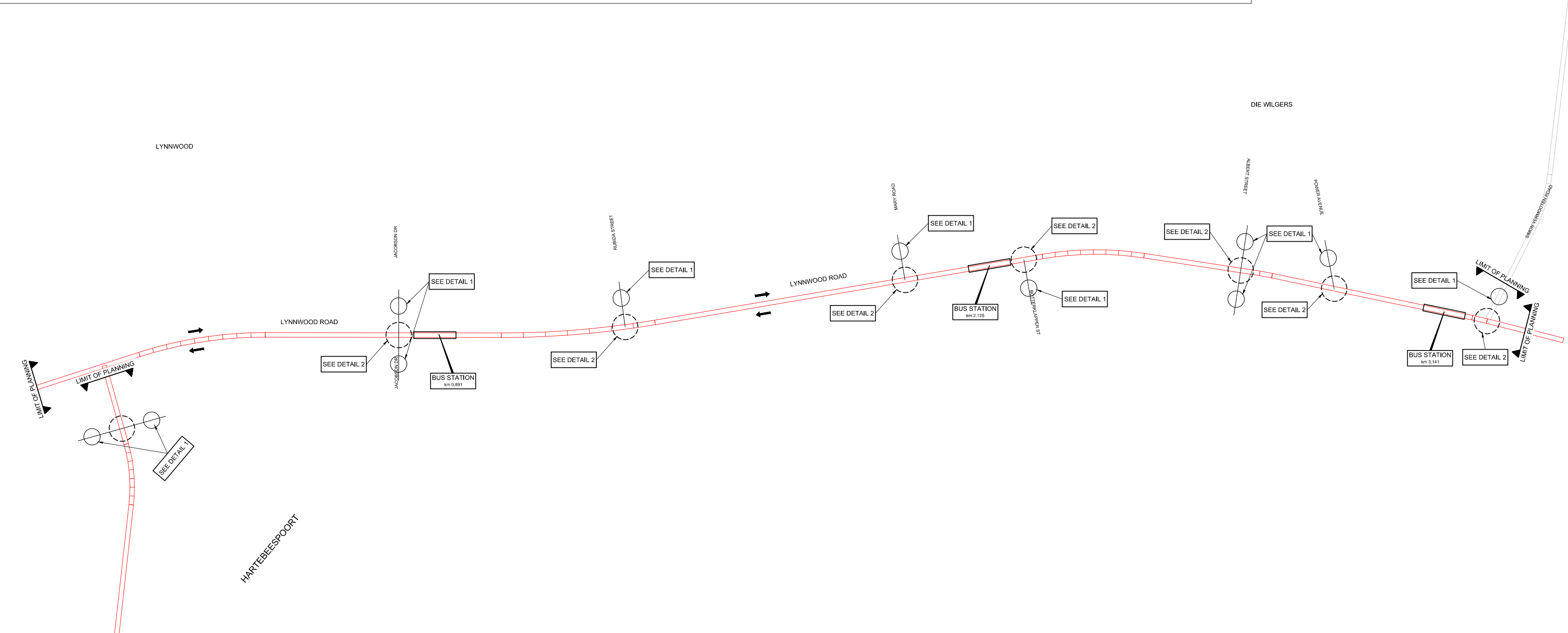
DETAIL 1



DETAIL 2
(STAGE 1)



DETAIL 2
(STAGE 2)



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AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-22	CW	ISSUED FOR APPROVAL
2	01-02-24	CW	ISSUED FOR TENDER

DESIGNED	DATE	BY	DATE	BY
DESIGN CHECKED BY	DATE	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT	

PROJECT STATUS			
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		

INITIALS AND SURNAME	SIGNATURE AND P. NO.	DATE

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ROADS AND TRANSPORT DEPARTMENT

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P.O. BOX 1409
PRETORIA
0001

Mr P. J. Lelani
EXECUTIVE DIRECTOR
P.O. BOX 1409
PRETORIA
0001

SIGNATURE	DATE

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
TRAFFIC ACCOMMODATION
SHEET 1 OF 2**

CONTRACT No. :		PROJECT No. :	
DATE :		SCALE :	
27/05/2022		1:1250	
		ORIGINAL PAPER SIZE:	
		A0	
DRAWING NO.		SHEET NO:	
J 2145/02/TA/001		1	
		 REVISION	

TRT LANE CONSTRUCTION
WITH NO ROAD WIDENING

STAGE 1

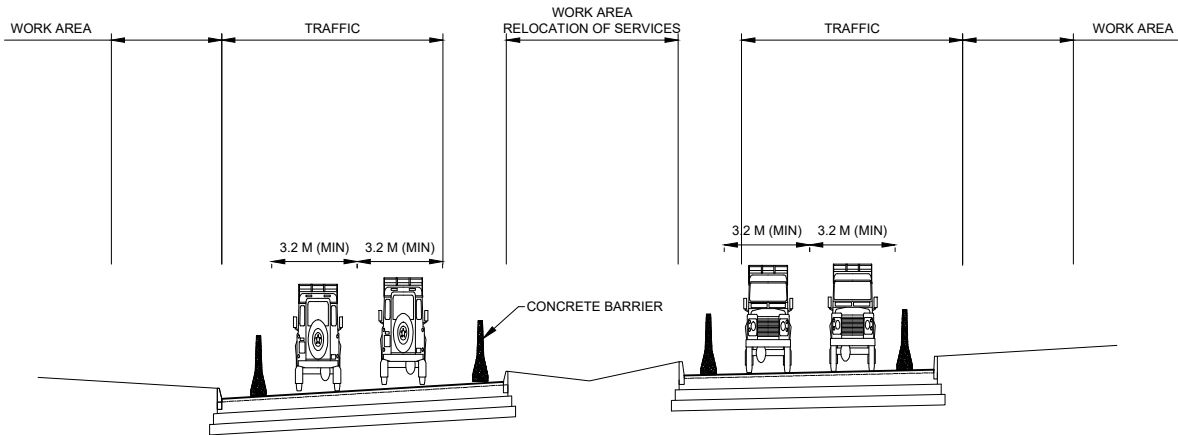
- 1.1 BARRICADE AREA FOR TRT CONSTRUCTION USING NEW JERSEY CONCRETE BARRIERS.
1.2 ACCOMMODATE TRAFFIC ON THE EXISTING ROAD.
1.3 RELOCATE SERVICES IN MEDIAN WHERE TRT LANE WILL BE CONSTRUCTED.

STAGE 2

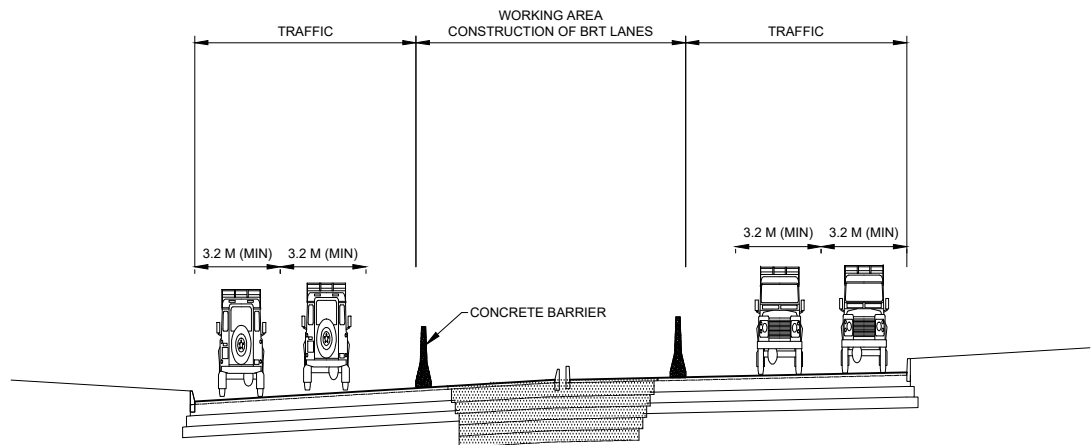
- 2.1 CONSTRUCT TRT LANE.
2.2 TRAFFIC IS STILL ACCOMMODATED ON THE EXISTING ROAD.

STAGE 3

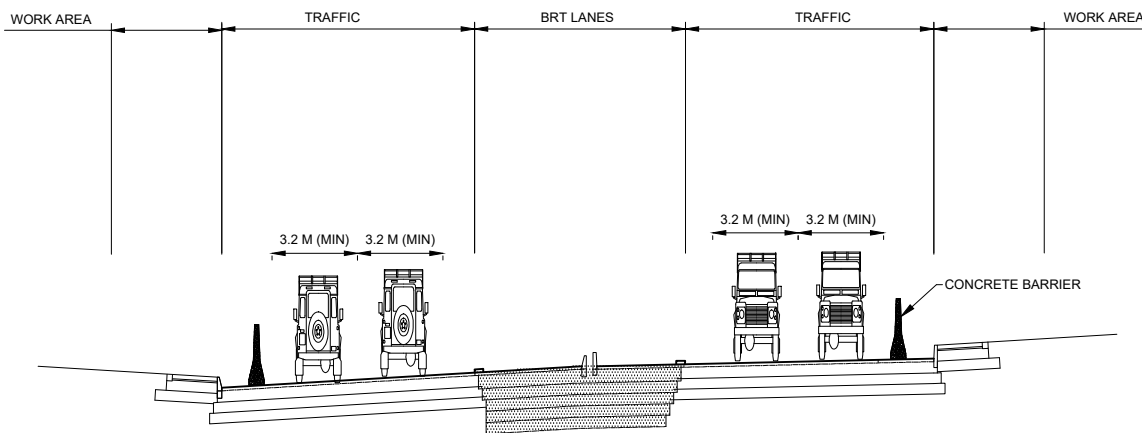
- 3.1 CONSTRUCT SIDEWALKS..
3.2 FINISH ROAD.



ACCOMODATION OF TRAFFIC STAGE 1 OF 3 (A-A)

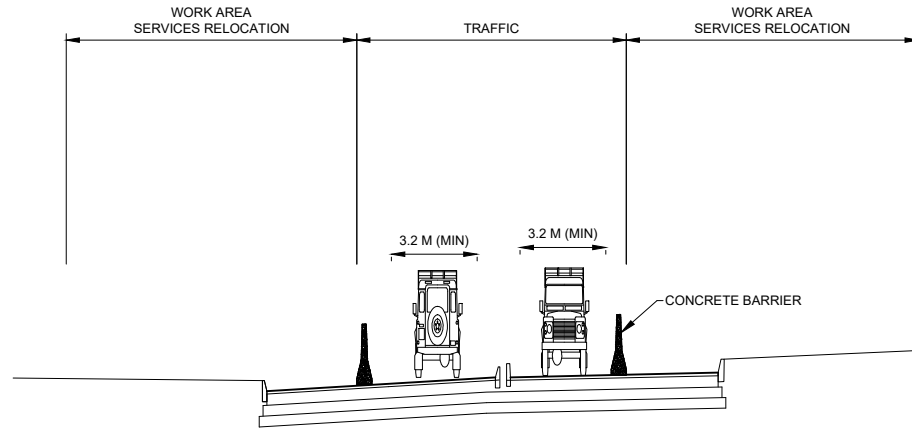


ACCOMODATION OF TRAFFIC STAGE 2 OF 3 (A-A)

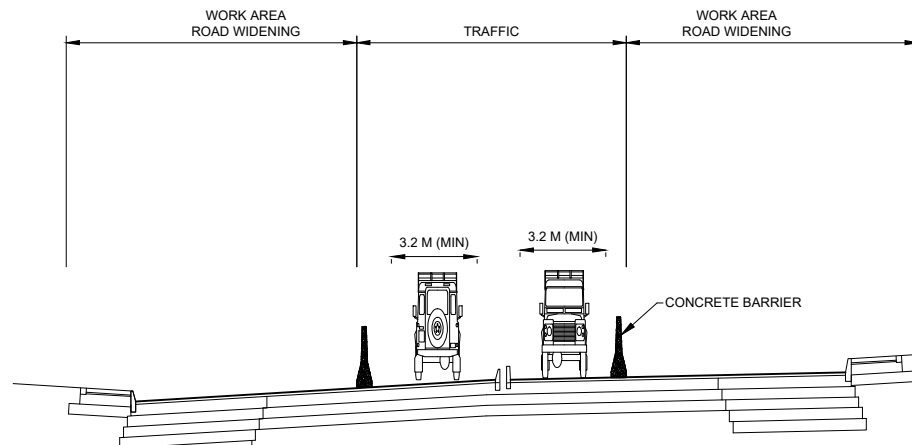


ACCOMODATION OF TRAFFIC STAGE 3 OF 3 (A-A)

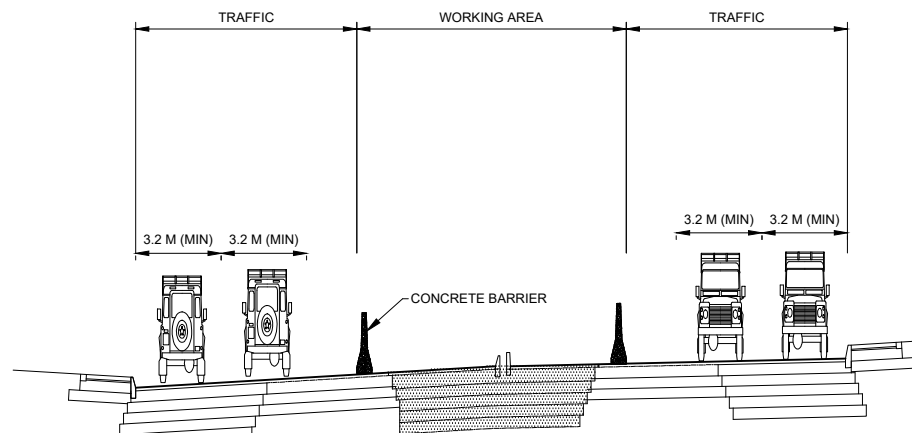
BRT LANE CONSTRUCTION WITH NEW KERBING
AND SIDEWALKS, BUT NO ROAD WIDENING



ACCOMODATION OF TRAFFIC STAGE 1 OF 3 (B-B)



ACCOMODATION OF TRAFFIC STAGE 2 OF 3 (B-B)



ACCOMODATION OF TRAFFIC STAGE 3 OF 3 (B-B)

BRT LANE CONSTRUCTION WITH NEW KERBING
AND SIDEWALKS, AND WITH ROAD WIDENING

BRT LAND CONSTRUCTION
INCLUDING ROAD WIDENING

STAGE 1

- 1.1 BARRICADE AREA FOR BRT CONSTRUCTION USING NEW JERSEY CONCRETE BARRIERS.
1.2 ACCOMMODATE TRAFFIC ON THE EXISTING ROAD.
1.3 RELOCATE SERVICES IN VERGE WHERE ROAD WIDENING IS REQUIRED.

STAGE 2

- 2.1 CONSTRUCT ROAD WIDENING.
2.2 TRAFFIC IS STILL ACCOMMODATED ON THE EXISTING ROAD.

STAGE 3

- 3.1 ACCOMMODATE TRAFFIC ON THE NEW ROAD WIDENING.
3.2 CONSTRUCT BRT LANE.
3.3 CONSTRUCT SIDEWALKS AND FINISH ROAD.

NOTES AND SPECIFICATIONS

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AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-21	CW	ISSUED FOR APPROVAL
2	01-07-21	CW	ISSUED FOR TENDER

DESIGNED	JJ	DRAWN	JJ
DATE		DATE	
DESIGN CHECKED BY	CW	INFRASTRUCTURE TECHNICAL INFORMATION	MANAGEMENT
DATE		DATE	

PROJECT STATUS			
☒ DESIGN	☒ ISSUE	☐ APPROVED FOR CONSTRUCTION	☐ AS-BUILT
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE):		

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
BAHLAPHING CONSULTING		
		
306 Lois Avenue Newlands, Menlyn, Pretoria, 0181		
t: (012) 348 3038 e: info@bahlaphing.com www.bahlaphing.com		

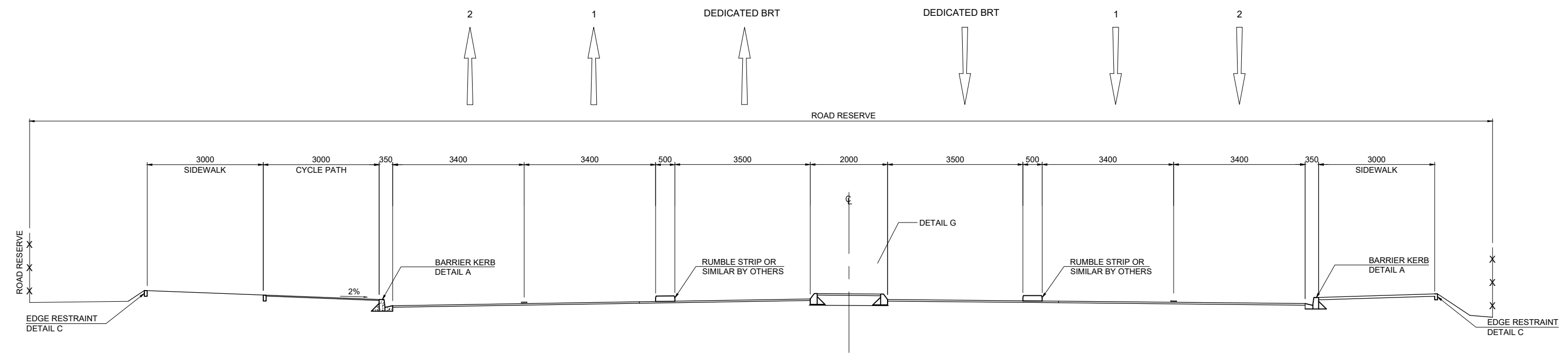
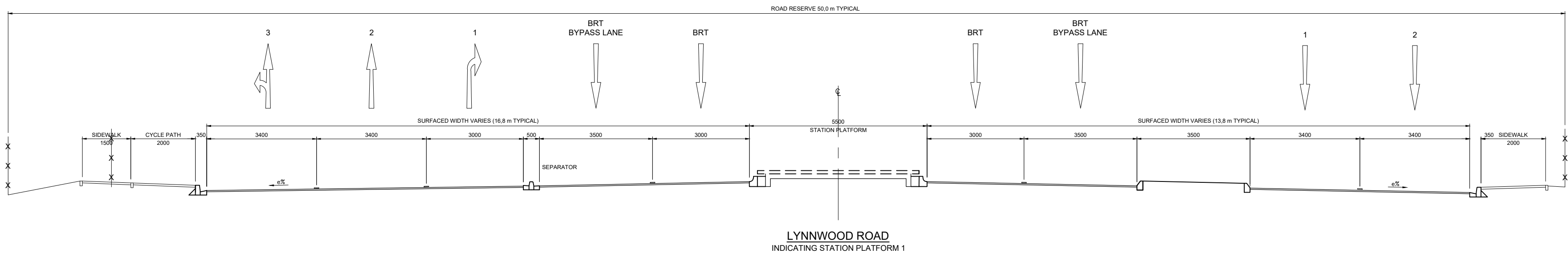
CITY OF TSHWANE ROADS AND TRANSPORT DEPARTMENT	
Ms Imelda Tabonye DIVISIONAL HEAD - IPTN DIVISION P.O. BOX 1409 PRETORIA 0001	Mr P. I. Lelwani EXECUTIVE DIRECTOR P.O. BOX 1409 PRETORIA 0001

SIGNATURE:	DATE:
DESCRIPTION OF PROJECT:	

BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	
---	--

DESCRIPTION OF DRAWING:	
LYNNWOOD ROAD - WP2 TRAFFIC ACCOMMODATION SHEET 2 OF 2	

CONTRACT No. :	PROJECT No. :
DATE : 27/05/2022	SCALE : 1:1250
DRAWING NO. J 2145/02/TA/002	SHEET NO. 1
ORIGINAL PAPER SIZE: A0	REVISION 



- GENERAL**
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 2. ALL DIMENSIONS ARE IN MILLIMETERS. (UNLESS OTHERWISE SPECIFIED)
 3. DO NOT SCALE FROM THESE DRAWINGS.
 4. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
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 7. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.
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 9. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
 10. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.

AMENDMENTS			
NR.	DATE	APPROVED	DESCRIPTION
1	25-04-21	OK	ISSUED FOR APPROVAL

DESIGNED		DRAWN	
DATE	DESIGNER	DATE	DRAWER

DESIGN CHECKED BY		INFRASTRUCTURE TECHNICAL INFORMATION	
DATE	CHECKER	DATE	REVISION

PROJECT STATUS	
PROJECT ENGINEER (CONSULTANT)	PROJECT NO.

INITIALS AND SURNAME		SIGNATURE AND P. No.		DATE	

INITIALS AND SURNAME		SIGNATURE AND P. No.		DATE	

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ROADS AND TRANSPORT DEPARTMENT

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Mr P. J. Lelwani
EXECUTIVE DIRECTOR
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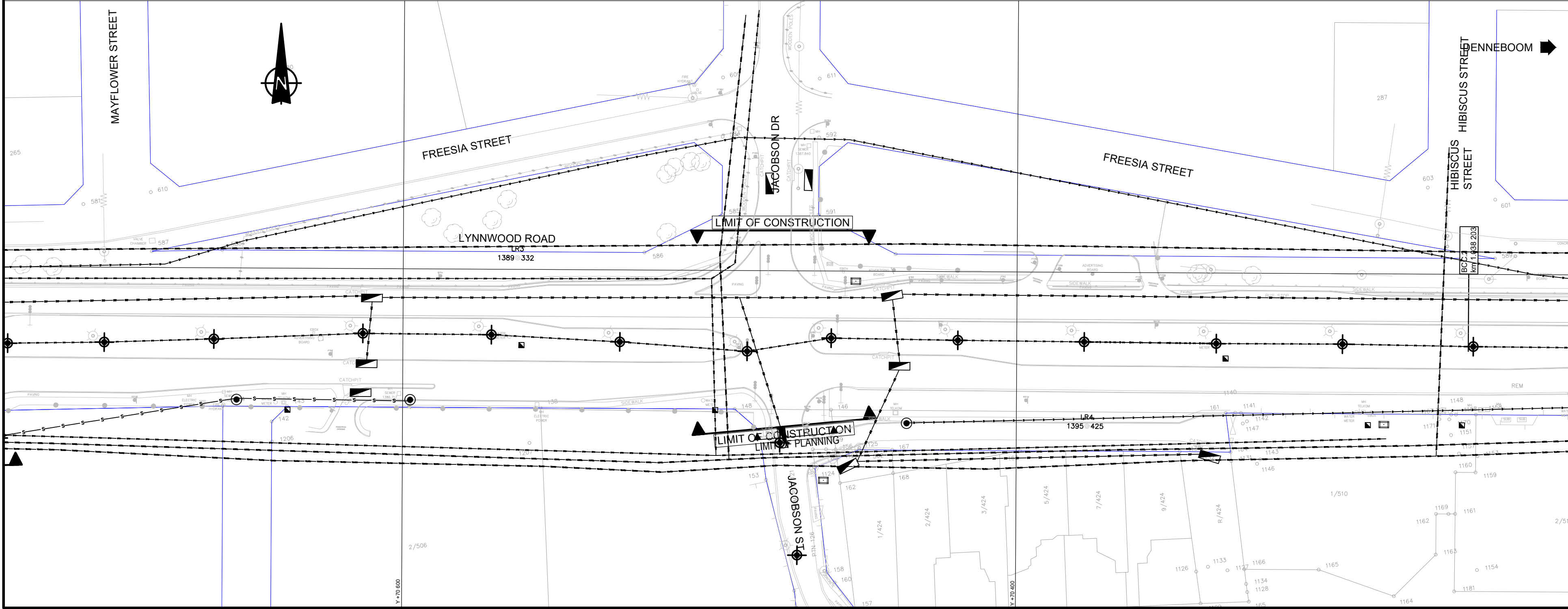
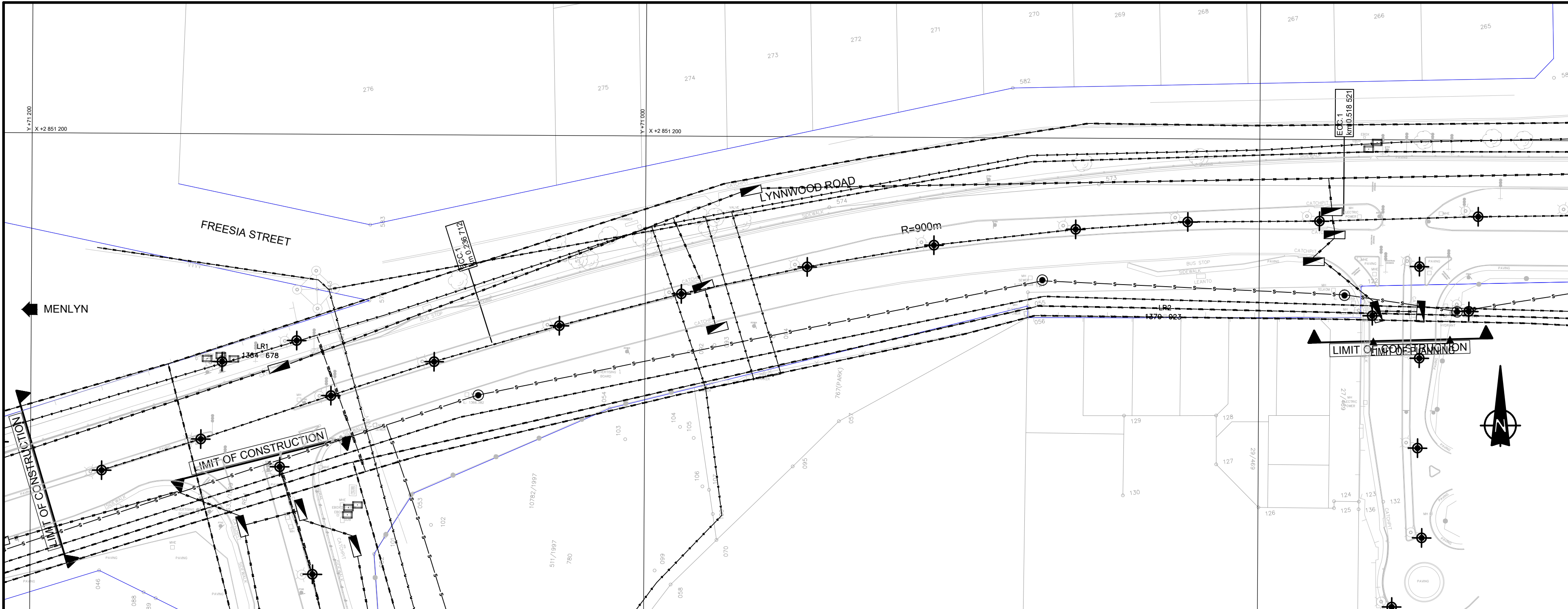
DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
TYPICAL CROSS SECTION**

CONTRACT No. :		PROJECT No. :	

DATE :		SCALE :		ORIGINAL PAPER SIZE:	
27/05/2022		AS SHOWN		A0	

DRAWING NO.		SHEET NO.		REVISION	
J 2145/02/TCS/001		1			



NOTES AND SPECIFICATIONS

GENERAL EXISTING SERVICES LEGEND

	WATER
	SEWER
	STORMWATER
	ESKOM CABLE
	TELKOM LINE
	DFA / CELL C
	CELL C CABLE
	POWERLINE
	HIGH VOLTAGE CABLES
	LOW VOLTAGE CABLES
	ELECTRICAL CABLE 1
	ELECTRICAL CABLE 2
	WIRE FENCE
	PALISADE FENCE
	ELECTRICAL FENCE
	SERVICE FEEDER CABLE (LIGHTING)
	TELKOM
	SERVICE FEEDER CABLE (MAINS)
	TRANSNET
	MTN
	NEOTEL
	MV CABLE, RF LOCATION
	MV CABLE, MF LOCATION

SYMBOL

SEWER MANHOLE

STORMWATER MANHOLE

WATER METER

MANHOLE (UNIDENTIFIED)

TELKOM JP

FIRE HYDRANT

LAMP POST

ELECTRIC BOX

SPRINKLER

WATER VALVE

ROAD SIGN

BENCH MARK

KERB INLET

AMENDMENTS

NO.	DATE	APPROVED	DESCRIPTION	PAGE
1	2020/04	CW	ISSUED FOR TENDER	1
2	2020/04	CW	ISSUED FOR TENDER	1

DESIGNED

CW

DESIGNED

CW

DESIGN CHECKED BY

CW

DESIGN CHECKED BY

CW

PROJECT STATUS

☒ DESIGN

☐ APPROVED FOR CONSTRUCTION

☐ APPROVED FOR TENDER

☐ APPROVED FOR TENDER

INITIALS AND SURNAME

INITIALS AND SURNAME

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CITY OF TSHWANE

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P.O. BOX 1409
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Mr P. I. Luthando
EXECUTIVE DIRECTOR
P.O. BOX 1409
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DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
WAYLEAVE SERVICES
SHEET 1 OF 3

CONTRACT NO.:

PROJECT NO.:

DATE:

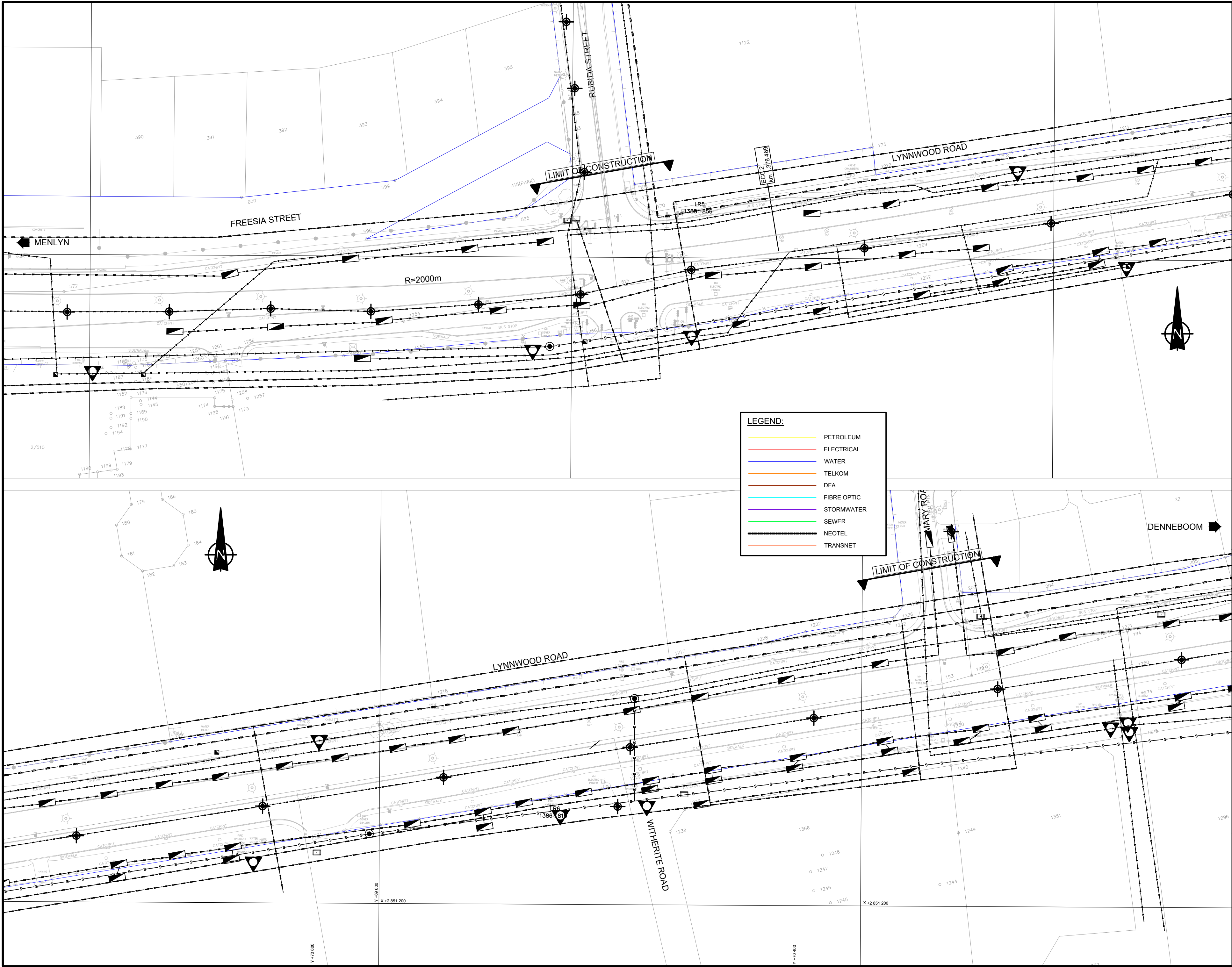
SCALE:

ORIGINAL PAPER SIZE:

DRAWING NO.:

SHEET NO.:

REVISION



NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS				
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1	27/05/2022	CW	ISSUED FOR TENDER	1
2	01/01/2023	CW	ISSUED FOR TENDER	1

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DESIGNED BY	CW	DRAWN BY	CW
DESIGN CHECKED BY	CW	NO POST-CONSTRUCTION TECHNICAL INFORMATION MANAGEMENT	

PROJECT STATUS			
☒ DESIGN	☒ APPROVED	☐ APPROVED FOR CONSTRUCTION	☐ ASUILT
PROJECT ENGINEER (CONSULTANT)			

INITIALS AND SURNAME	SIGNATURE AND P.L. NO.	DATE
INSPECTOR OF WORKS (CITY OF TSHWANE)		
INITIALS AND SURNAME	SIGNATURE AND P.L. NO.	DATE

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CITY OF TSHWANE

ROADS AND TRANSPORT DEPARTMENT

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Ms P. L. Lethemane
EXECUTIVE DIRECTOR

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DESCRIPTION OF PROJECT:

BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN

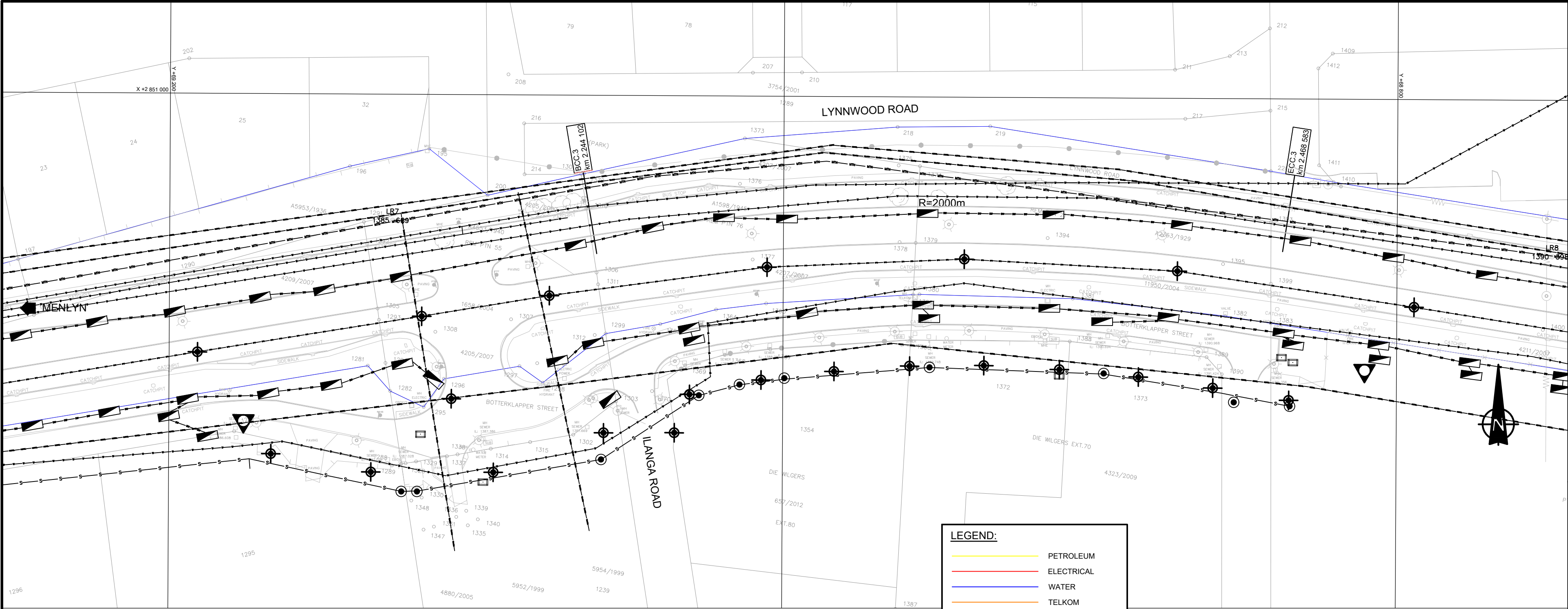
DESCRIPTION OF DRAWING:

LYNNWOOD ROAD - WP2
WAYLEAVE SERVICES
SHEET 2 OF 3

CONTRACT NO.:	PROJECT NO.:
DATE: 27/05/2022	SCALE: 1:500
DRAWING NO. J 2145/02/WLS/002	SHEET NO. A0

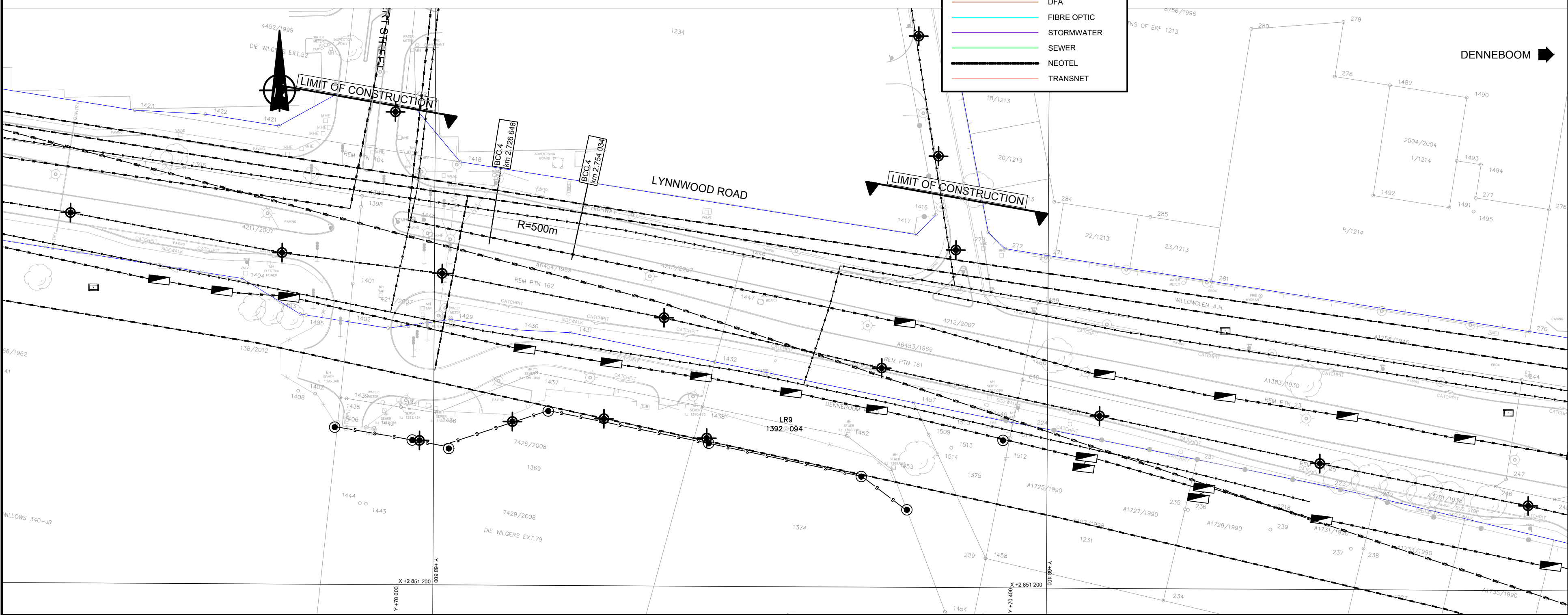
REVISION

REVISION



LEGEND:

- PETROLEUM
- ELECTRICAL
- WATER
- TELKOM
- DFA
- FIBRE OPTIC
- STORMWATER
- SEWER
- NEOTEL
- TRANSNET



NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
A	20/05/22	OW	REVISION FOR TENDER
B	01/06/22	OW	ISSUED FOR TENDER

DESIGNED		DRAWN	
	CW		CW
DESIGN CHECKED BY		NO POST-CONSTRUCTION TECHNICAL INFORMATION MANAGEMENT	
PROJECT ENGINEER (CONSULTANT)			

PROJECT STATUS

☐ DESIGN	☒ APPROVED	☐ ASSESS	☐ ASSESS
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INITIALS AND SURNAME	SIGNATURE AND P.L. No.	DATE

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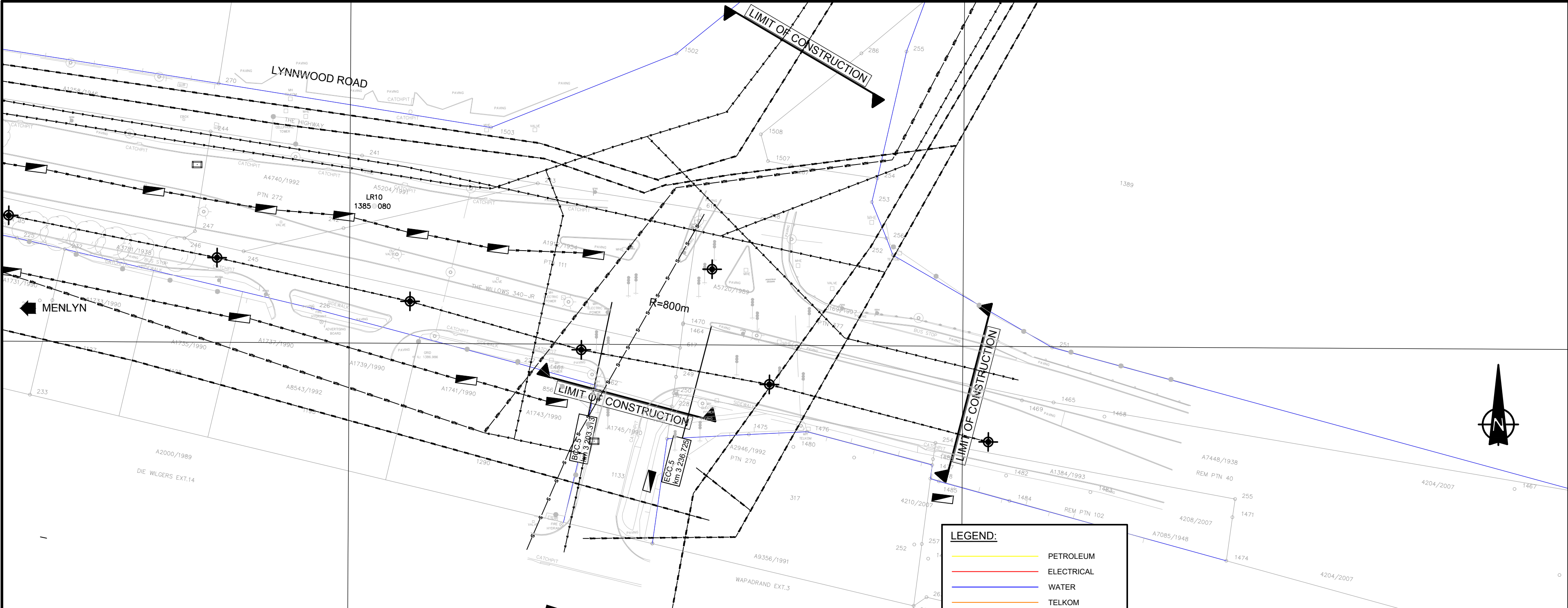
CITY OF TSHWANE
ROADS AND TRANSPORT DEPARTMENT

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P.O. BOX 1409 PRETORIA 0001	P.O. BOX 1409 PRETORIA 0001

DESCRIPTION OF PROJECT:
**BRT LINE 2C:
LYNNWOOD ROAD FROM JANUARY
MASILELA TO SIMON VERMOOTEN**

DESCRIPTION OF DRAWING:
**LYNNWOOD ROAD - WP2
WAYLEAVE SERVICES
SHEET 3 OF 4**

CONTRACT No.:		PROJECT No.:	
DATE: 27/05/2022	SCALE: 1:500	ORIGINAL PAPER SIZE: A0	
DRAWING NO. J 2145/02/WLS/003	SHEET NO. 3	REVISION	



LEGEND:

- PETROLEUM
- ELECTRICAL
- WATER
- TELKOM
- DFA
- FIBRE OPTIC
- STORMWATER
- SEWER
- NEOTEL
- TRANSNET

NOTES AND SPECIFICATIONS

GENERAL

AMENDMENTS			
NO.	DATE	APPROVED	DESCRIPTION
1	2022/05	CW	ISSUED FOR TENDER
2	2022/05	CW	ISSUED FOR TENDER

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DESIGNED BY	CW	DESIGNED BY	CW
DESIGNED	CW	DESIGNED	CW
DESIGNED	CW	DESIGNED	CW

PROJECT STATUS			
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DESIGNED	ISSUED	APPROVED	ISSUED
DESIGNED	ISSUED	APPROVED	ISSUED

INITIALS AND SURNAME	SIGNATURE AND P. No.	DATE
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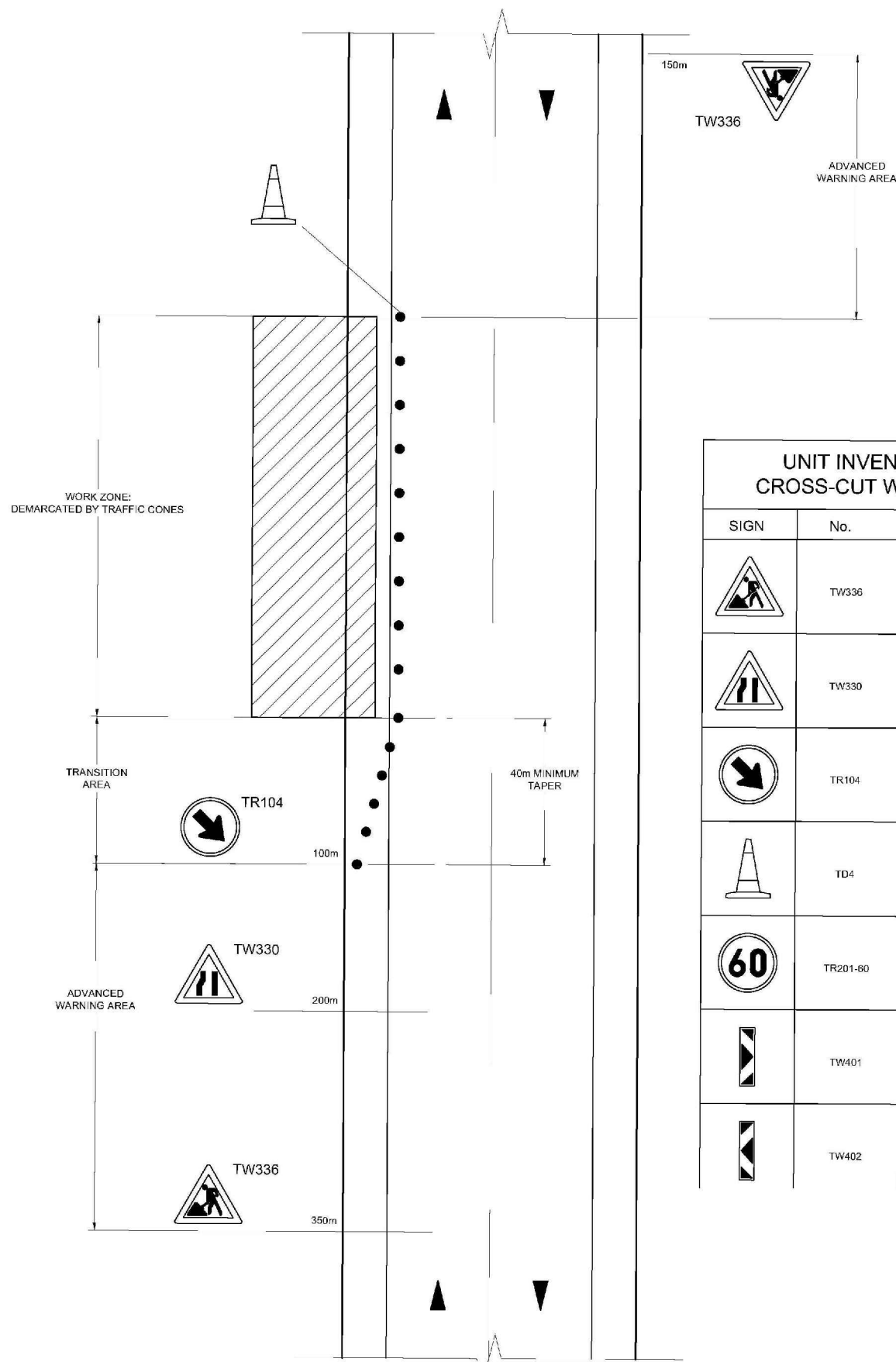
DESCRIPTION OF PROJECT:	
BRT LINE 2C: LYNNWOOD ROAD FROM JANUARY MASILELA TO SIMON VERMOOTEN	

DESCRIPTION OF DRAWING:	
LYNNWOOD ROAD - WP2 WAYLEAVE SERVICES SHEET 4 OF 4	

CONTRACT No.:	
PROJECT No.:	

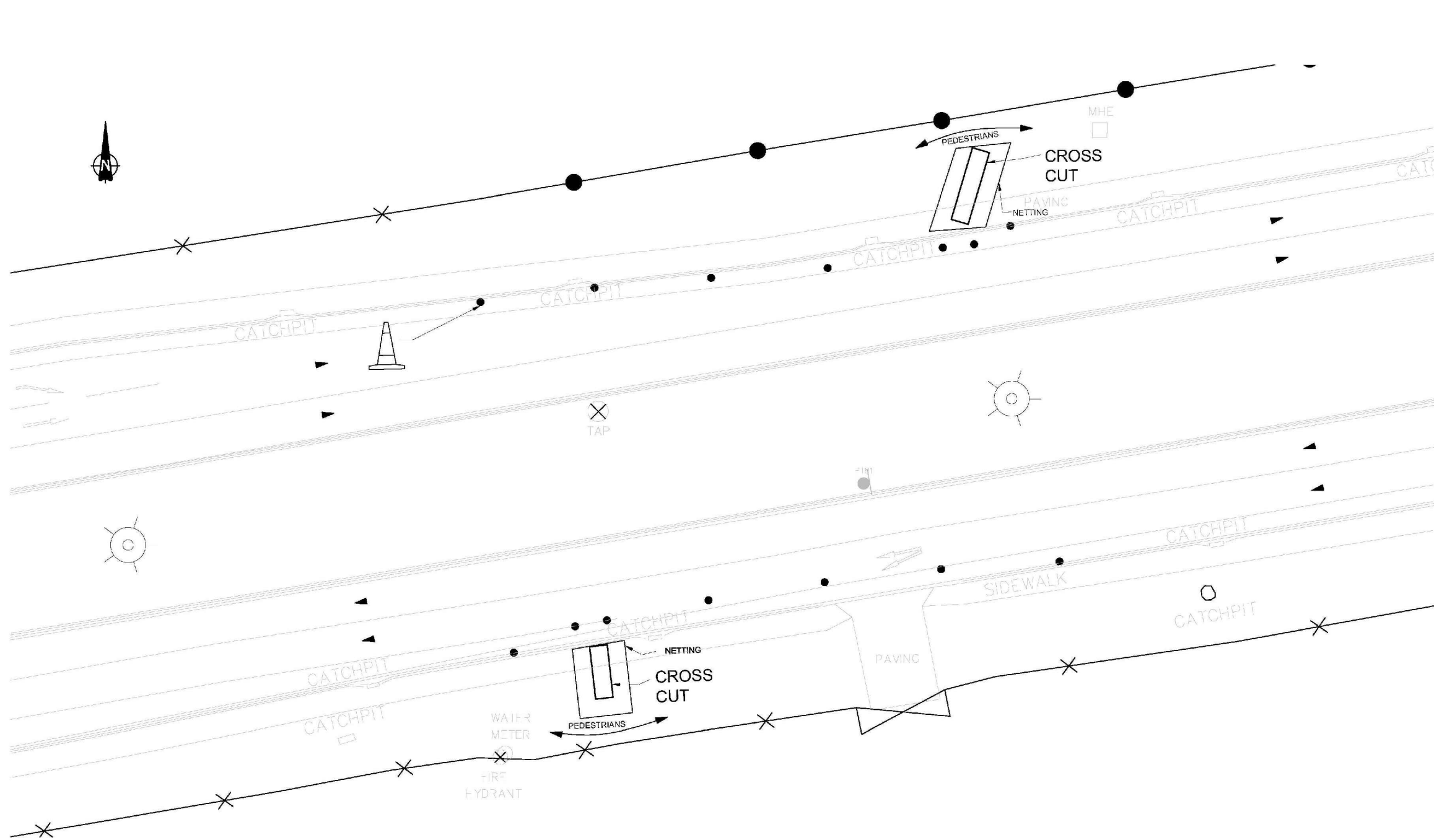
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27/05/2022	1:500	A0

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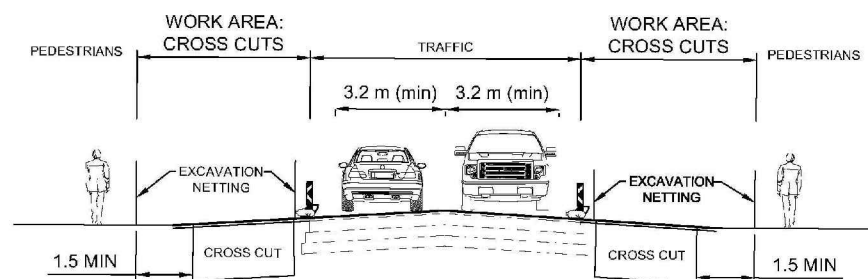
SCHEMATIC LAYOUT FOR SHORT TERM WORKS ON THE SHOULDER
SCALE: NTS

SIGN	No.	SIZE (mm)	QTY
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	TW330	1200	1
	TR104	1200 Ø	1
	TD4	450	15
	TR201-80	1200 Ø	2
	TW401	600	
	TW402	600	

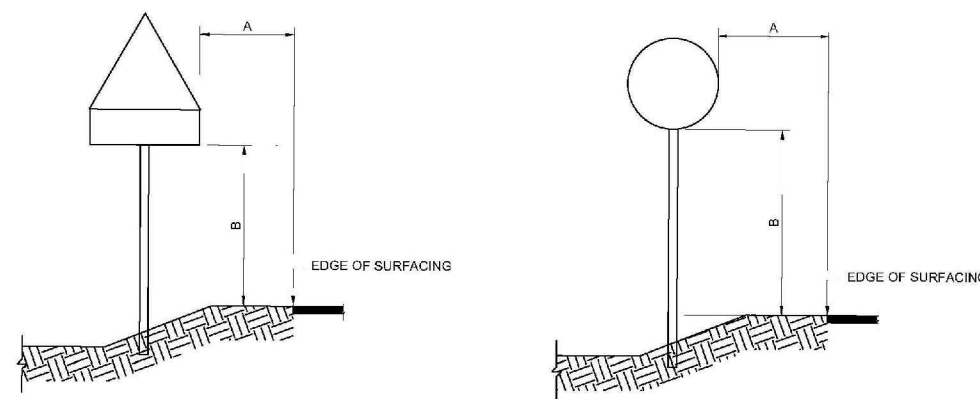


SITE-SPECIFIC PLAN OF CROSS CUT
SCALE: 1:200

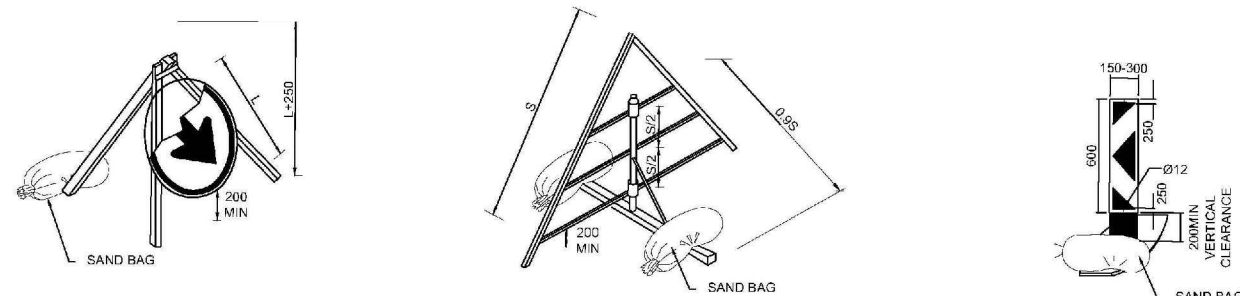
BASIC MINIMUM CLEARANCE	
POINT	DISTANCE (mm)
A	1200
B	750



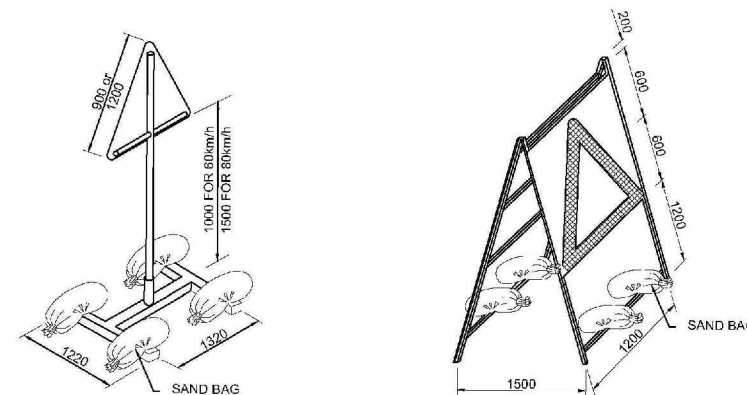
TYPICAL CROSS SECTION OF TRAFFIC ACCOMMODATION
SCALE: NTS



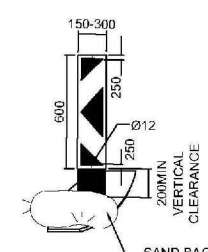
MINIMUM CLEARANCES FOR SIGNS ON POLES
SCALE: NTS



MOVABLE SIGN SUPPORT DETAILS
SCALE: NTS



LARGER MOVABLE SIGN SUPPORT DETAILS
SCALE: NTS



DELINEATOR
SCALE: NTS

NOTES AND SPECIFICATIONS

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AMENDMENTS		
NO.	DATE	DESCRIPTION
1	2022-05-24	ISSUED FOR TENDER
2	2022-05-24	ISSUED FOR TENDER

DESIGNED	
DESIGNED BY	DESIGNED
DESIGNED BY	DESIGNED

PROJECT STATUS	
PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CONSULTANT)
PROJECT ENGINEER (CONSULTANT)	PROJECT ENGINEER (CONSULTANT)

INITIALS AND SURNAME	
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