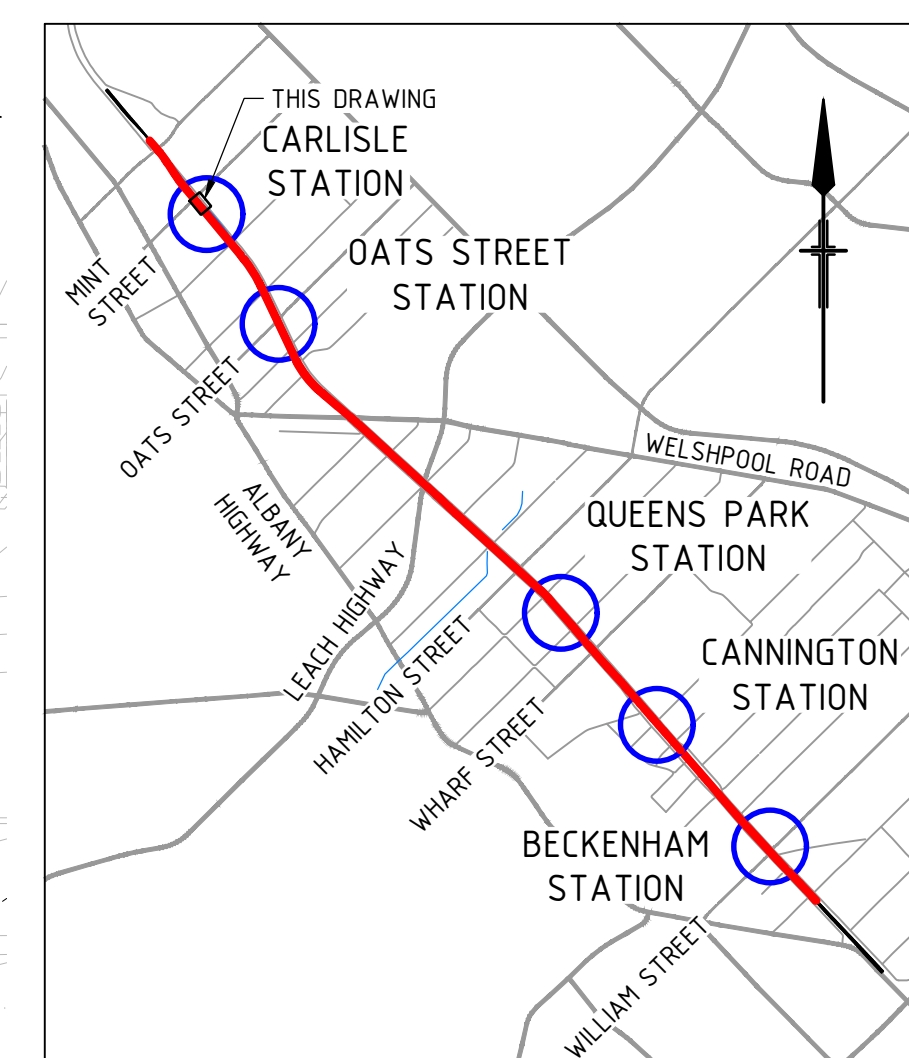
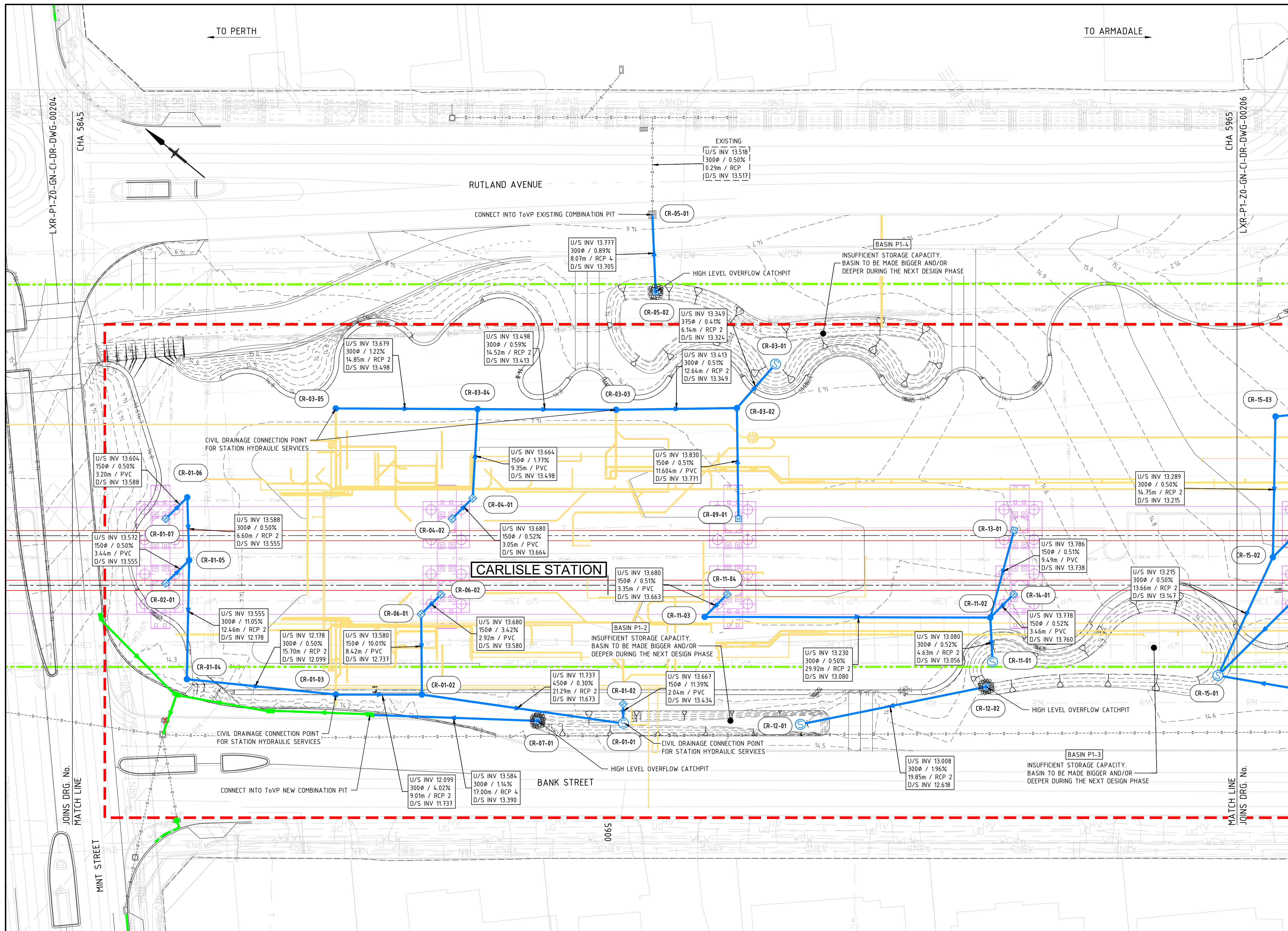


Appendix M – Drainage General Arrangement Plans prepared by ALUA



LOCALITY PLAN

NOTES

- FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING LXR-PW-ZO-GN-CL-DR-DWG-00004.
- DRAINAGE PIT AND PIPE NETWORKS HAVE NOT BEEN ASSESSED. THESE WILL BE ASSESSED DURING THE NEXT DESIGN PHASE.
- TRENCH DRAIN PIT HAS ONLY BEEN PROVIDED AT THE DOWNSTREAM ENDS. THE REQUIREMENT OF PIT ALONG THE TRENCH DRAIN HAS NOT BEEN ASSESSED. THIS WILL BE ASSESSED DURING THE NEXT DESIGN PHASE.
- REFER TO DRAWINGS LXR-P1-Z1-ML-CL-DR-DWG-000201, LXR-P1-Z2-OL-CL-DR-DWG-00211 AND LXR-P1-Z2-WL-CL-DR-DWG-00221 FOR ROADS DRAINAGE DESIGN OUTSIDE THE RAIL CORRIDOR.
- PERMEABLE PAVING FOR HARD LANDSCAPING AREAS TO BE CONSIDERED DURING THE NEXT DESIGN PHASE TO REDUCE REQUIRED BASIN VOLUME.
- PIER DRAINAGE OUTLET SYSTEM IS SUBJECT TO PIER IN-SITU HEIGHT AND TO BE CONFIRMED DURING THE NEXT DESIGN PHASE.

LEGEND

(P2-03-48-1)	DRAINAGE STRUCTURE NUMBER
---	STATION PLAZA AREA BOUNDARY
---	RAIL RESERVE BOUNDARY
---	VIADUCT
RAIL CORRIDOR DRAINAGE:	
---	DRAINAGE PIPE
---	MANHOLE
---	GULLY PIT
---	CATCHPIT
---	END TREATMENT
---	PVC FITTING
---	KERB OPENING
---	ROCK PROTECTION
---	DRAINAGE BASIN
---	OPEN CHANNEL
---	SOAKWELL
---	TRENCH DRAIN
---	DRAINAGE PIPE INFORMATION
ToVP DRAINAGE:	
---	ToVP DRAINAGE PIPE
---	ToVP MANHOLE
---	ToVP COMBINATION PIT
HYDRAULIC SERVICES	
---	HYDRAULIC SERVICES
DESIGN CONTOUR	
---	DESIGN MAJOR CONTOUR
---	DESIGN MINOR CONTOUR
EXISTING DRAINAGE:	
---	EXISTING PIT AND PIPE
---	EXISTING DRAINAGE TO BE REMOVED
---	EXISTING OPEN CHANNEL
---	EXISTING CONCRETE CHANNEL
---	EXISTING DRAINAGE PIPE INFORMATION

ISSUED FOR INFORMATION

B1.01					
A	31.08.22	ISSUED FOR REFERENCE DESIGN	JL	LC	BS
REV	DATE	AMENDMENT	JL	LC	BS
ORIG SIZE			DSN	DRN	CHK
A1					APP
This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.					

ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-ZO-GN-CL-DR-DWG-00205

REFERENCES	SCALE	DESIGNED
	1:200 (@A1)	J.LIM
		DRAWN
		L.CHEN
		CHECKED
		B.SASHEGYI
		APPROVED
		F.WATERVOORT
		DATE

Government of Western Australia Public Transport Authority	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ARMADALE LINE - DRAINAGE	
CORRIDOR - PACKAGE 1	
GENERAL ARRANGEMENT - SHEET 5	
PTA Drawing No:	04-C-23-0087
Rev:	B1.01

EXISTING
U/S INV 14.600
200 ϕ / 11.47%
2.56m / PVC
D/S INV 14.306

PTA Drawing No:	04-C-23-0088	Rev: B1.01
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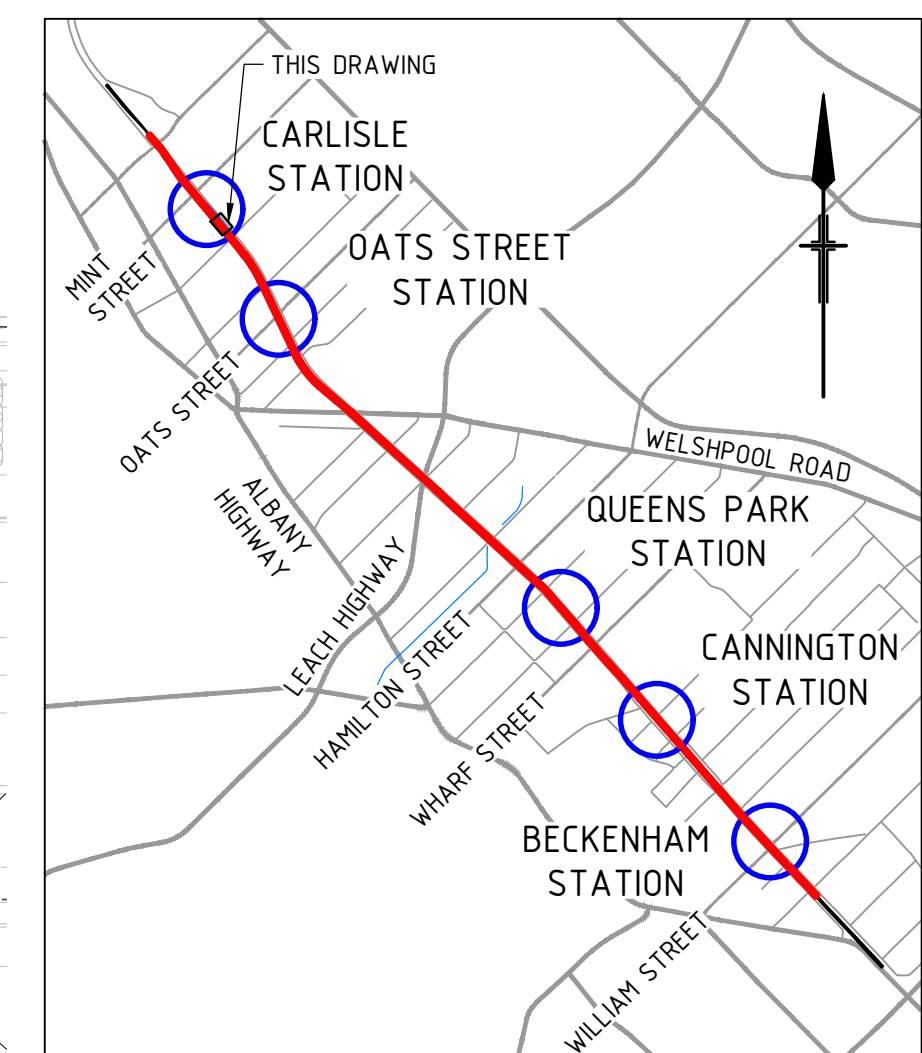
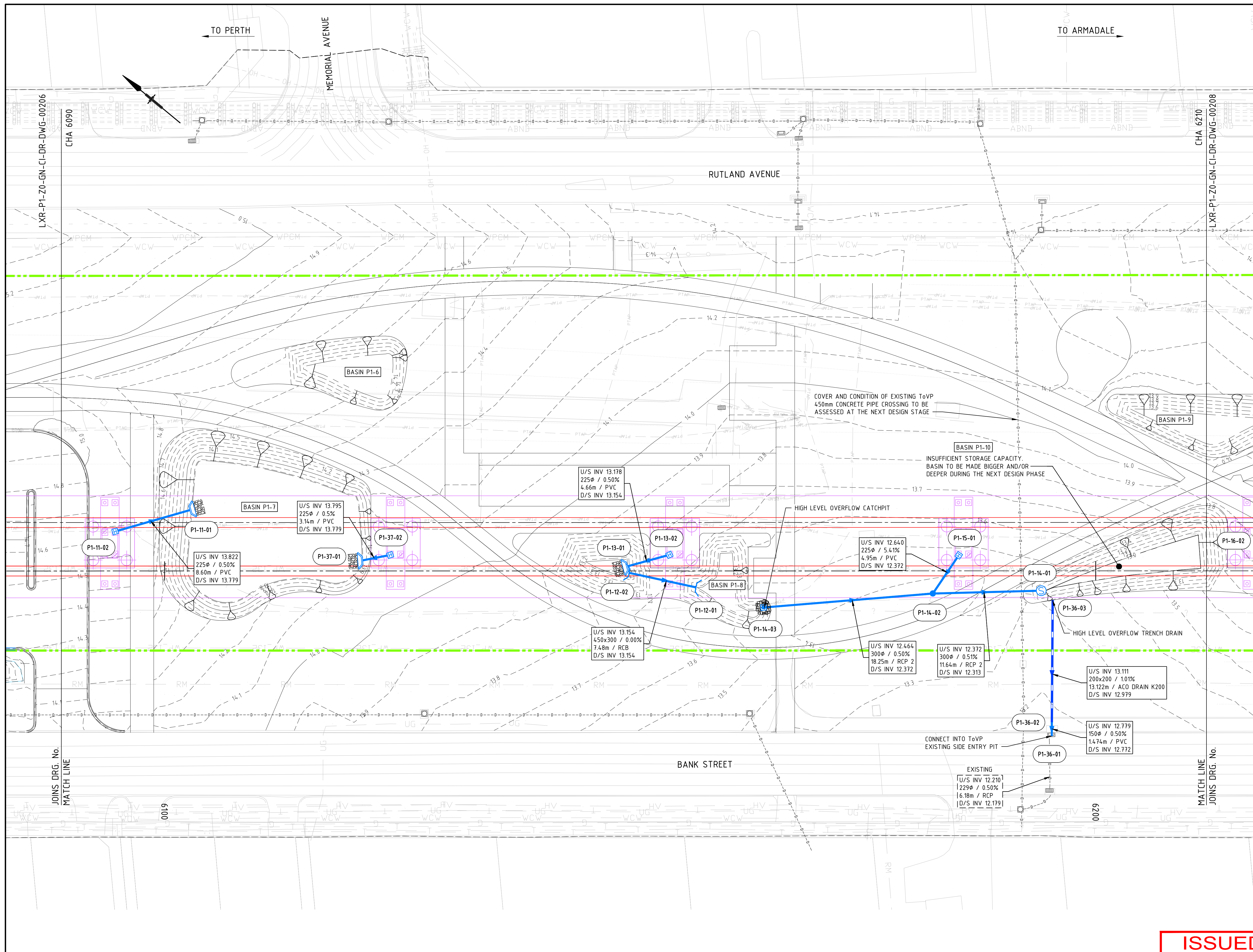
ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-Z0-GN-CI-DR-DWG-00206

SCALE	DESIGNED	J.LIM
1:200 (@A1)	DRAWN	L.CHEN
DATUM	CHECKED	B.SASHEGYI
HORIZONTAL: PCG20	APPROVED	F.WATERVOORT
VERTICAL: AHD71	DATE	

 Government of Western Australia Public Transport Authority	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL	
	ARMADALE LINE - DRAINAGE	
	CORRIDOR - PACKAGE 1	
	GENERAL ARRANGEMENT - SHEET 6	
PTA Drawing No:	04-C-23-0088	Rev: B1.01



- NOTES**
- FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING LXR-PW-ZO-GN-CI-DR-DWG-00004.
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 - PIER DRAINAGE OUTLET SYSTEM IS SUBJECT TO PIER IN-SITU HEIGHT AND TO BE CONFIRMED DURING THE NEXT DESIGN PHASE.

LEGEND

RAIL CORRIDOR DRAINAGE:

- DRAINAGE STRUCTURE NUMBER
- STATION PLAZA AREA BOUNDARY
- RAIL RESERVE BOUNDARY
- VIADUCT

RAIL CORRIDOR DRAINAGE:

- DRAINAGE PIPE
- MANHOLE
- GULLY PIT
- CATCHPIT
- END TREATMENT
- PVC FITTING
- KERB OPENING
- ROCK PROTECTION
- DRAINAGE BASIN
- OPEN CHANNEL
- SOAKWELL
- TRENCH DRAIN

ToVP DRAINAGE:

- ToVP DRAINAGE PIPE
- ToVP MANHOLE
- ToVP COMBINATION PIT

HYDRAULIC SERVICES

- HYDRAULIC SERVICES

DESIGN CONTOUR

- DESIGN MAJOR CONTOUR
- DESIGN MINOR CONTOUR

EXISTING DRAINAGE:

- EXISTING PIT AND PIPE
- EXISTING DRAINAGE TO BE REMOVED
- EXISTING OPEN CHANNEL
- EXISTING CONCRETE CHANNEL

EXISTING DRAINAGE PIPE INFORMATION

- EXISTING DRAINAGE PIPE INFORMATION

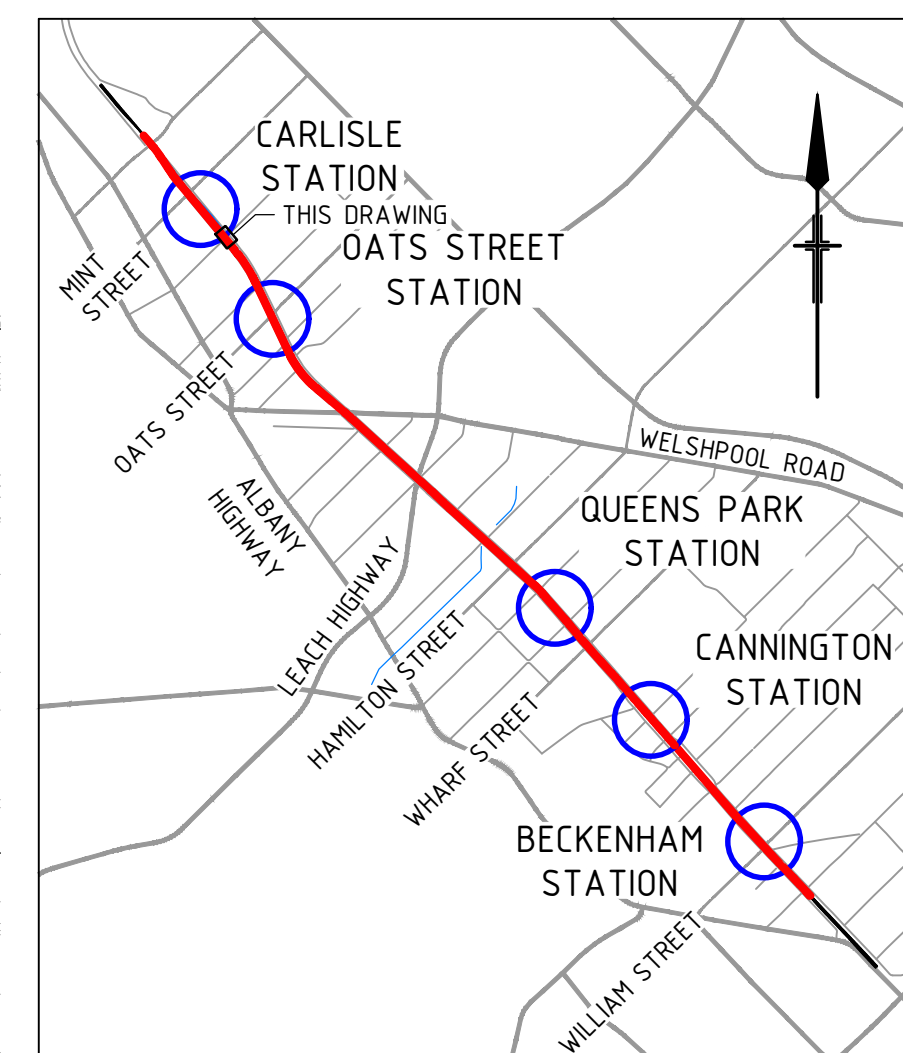
ISSUED FOR INFORMATION

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - DRAINAGE
CORRIDOR - PACKAGE 1
GENERAL ARRANGEMENT - SHEET 7
PTA Drawing No: 04-C-23-0089 Rev: B1.01

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LOCALITY PLAN

NOTES

1. FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING LXR-PW-Z0-GN-CI-RD-W00004.
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6. PIER DRAINAGE OUTLET SYSTEM IS SUBJECT TO PIER IN-SITU HEIGHT AND TO BE CONFIRMED DURING THE NEXT DESIGN PHASE.

LEGEND

	DRAINAGE STRUCTURE NUMBER
	STATION PLAZA AREA BOUNDARY
	RAIL RESERVE BOUNDARY

RAIL CORRIDOR DRAINAGE:

	DRAINAGE PIPE
	MANHOLE
	GULLY PIT
	CATCHPIT
	END TREATMENT
	PVC FITTING
	KERB OPENING
	ROCK PROTECTION
	DRAINAGE BASIN
	OPEN CHANNEL SOAKWELL
	TRENCH DRAIN

U/S INV 14.600
200' / 11.47%
2.51' / 1.45%

ToVP DRAINAGE:

TOVP DRAINAGE:

TOVP DRAINAGE PIPE

TOVP MANHOLE

TOVP COMBINATION PIT

HYDRAULIC SERVICES

HYDRAULIC SERVICES

DESIGN CONTOUR

DESIGN CONTOUR

—————20————— DESIGN MAJOR CONTOUR

-----20.1----- DESIGN MINOR CONTOUR

EXISTING DRAINAGE:

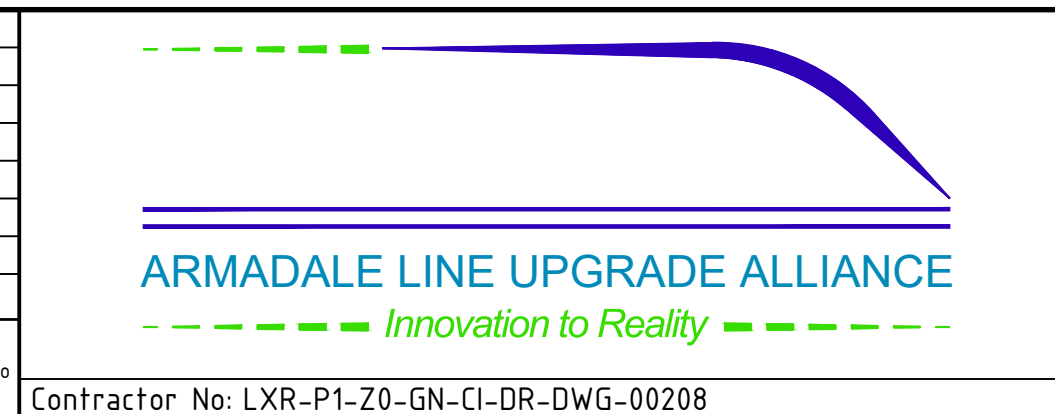
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- D — D — D — D — D —
- D — X — X — X — X —
- }} }} }}
- > — > — > —

EXISTING PIT AND PIPE
 EXISTING DRAINAGE TO BE REMOVED
 EXISTING OPEN CHANNEL
 EXISTING CONCRETE CHANNEL

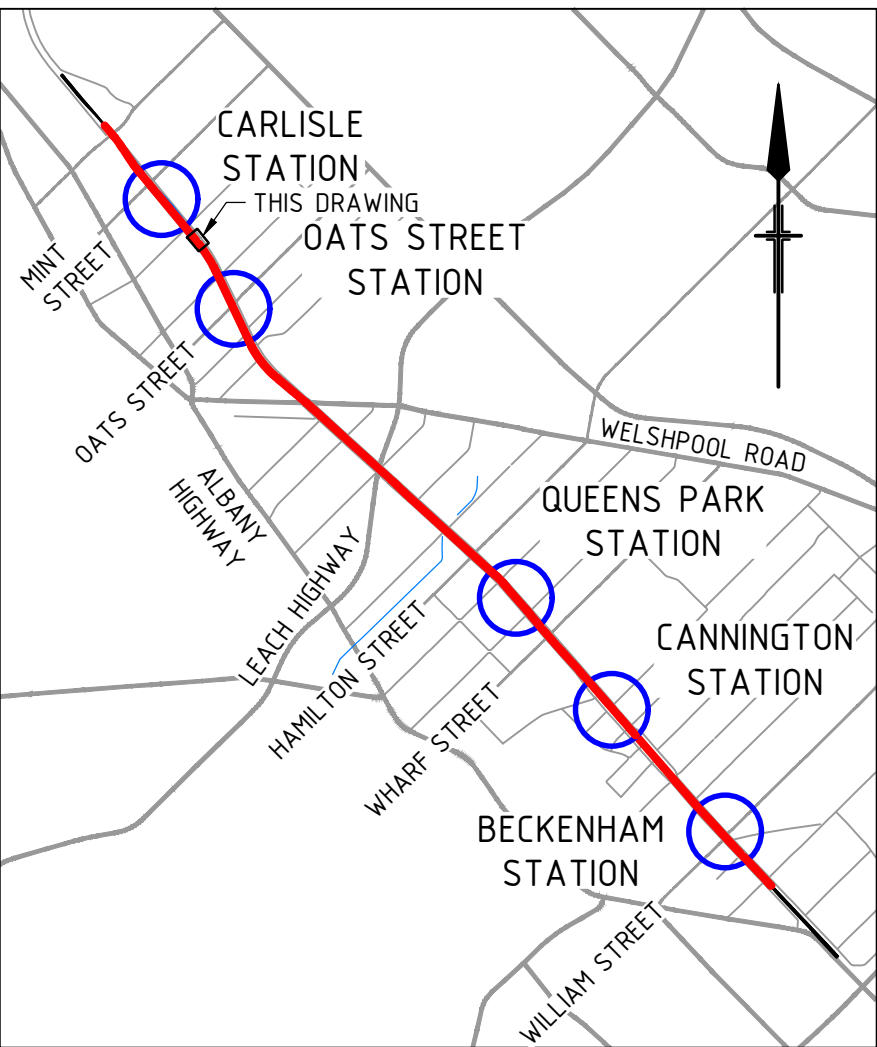
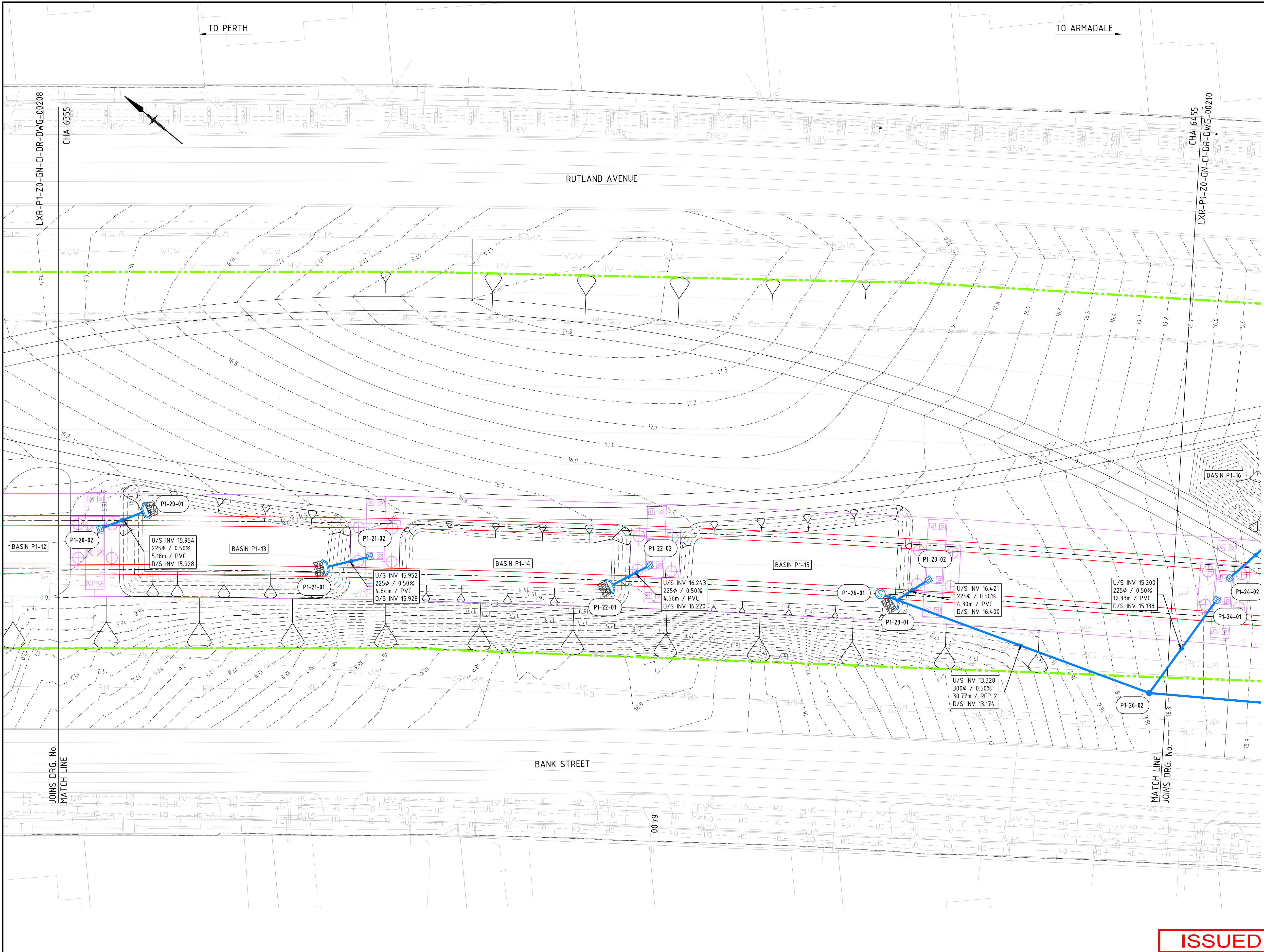
EXISTING DRAINAGE PIPE INFORMATION

ISSUED FOR INFORMATION

[illegible]

REFERENCES	SCALE 1:200 (@A1)	DESIGNED	J.LIM
		DRAWN	L.CHEN
	DATUM HORIZONTAL: PCG20 VERTICAL: AHD71	CHECKED	B.SASHEGYI
		APPROVED	F.WATERVOORT
		DATE	

 Government of Western Australia Public Transport Authority	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL	
	ARMADALE LINE - DRAINAGE	
	CORRIDOR - PACKAGE 1	
	GENERAL ARRANGEMENT - SHEET 8	
PTA Drawing No: 04-C-23-0090		Rev: B1.01



LOCALITY PLAN

NOTES

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LEGEND

- RAIL CORRIDOR DRAINAGE:**
- DRAINAGE STRUCTURE NUMBER
 - STATION PLAZA AREA BOUNDARY
 - RAIL RESERVE BOUNDARY
 - VIADUCT
 - DRAINAGE PIPE
 - MANHOLE
 - GULLY PIT
 - CATCHPIT
 - END TREATMENT
 - PVC FITTING
 - KERB OPENING
 - ROCK PROTECTION
 - DRAINAGE BASIN
 - OPEN CHANNEL
 - SOAKWELL
 - TRENCH DRAIN
 - DRAINAGE PIPE INFORMATION
- ToVP DRAINAGE:**
- ToVP DRAINAGE PIPE
 - ToVP MANHOLE
 - ToVP COMBINATION PIT
- HYDRAULIC SERVICES**
- HYDRAULIC SERVICES
- DESIGN CONTOUR**
- DESIGN MAJOR CONTOUR
 - DESIGN MINOR CONTOUR
- EXISTING DRAINAGE:**
- EXISTING PIT AND PIPE
 - EXISTING DRAINAGE TO BE REMOVED
 - EXISTING OPEN CHANNEL
 - EXISTING CONCRETE CHANNEL
 - EXISTING DRAINAGE PIPE INFORMATION

ISSUED FOR INFORMATION

B1.01		JL		LC	BS	FW
A		JL		LC	BS	FW
REV	DATE	ISSUED FOR REFERENCE DESIGN	DSN	DRN	CHK	APP
ORIG SIZE	AMENDMENT					
A1	AT ORIGINAL PLOT SIZE					

0 10 20 30 40 50 100mm

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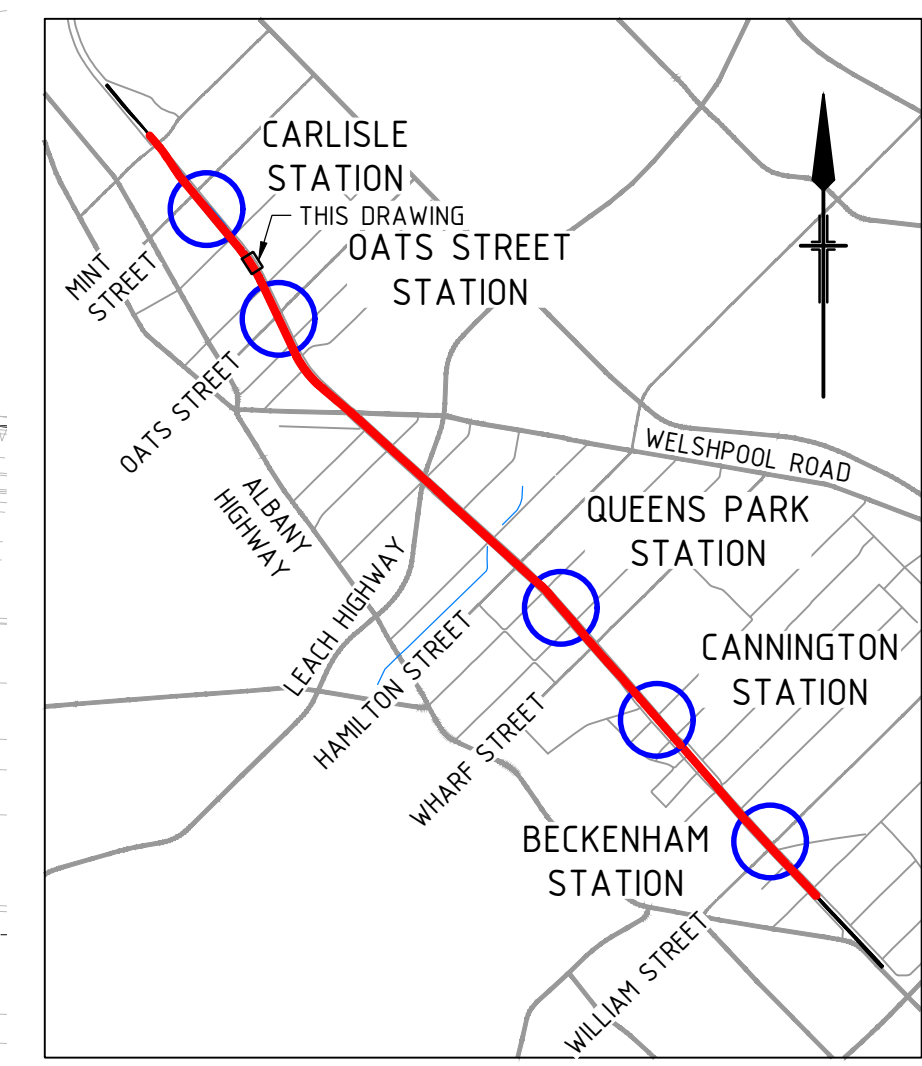
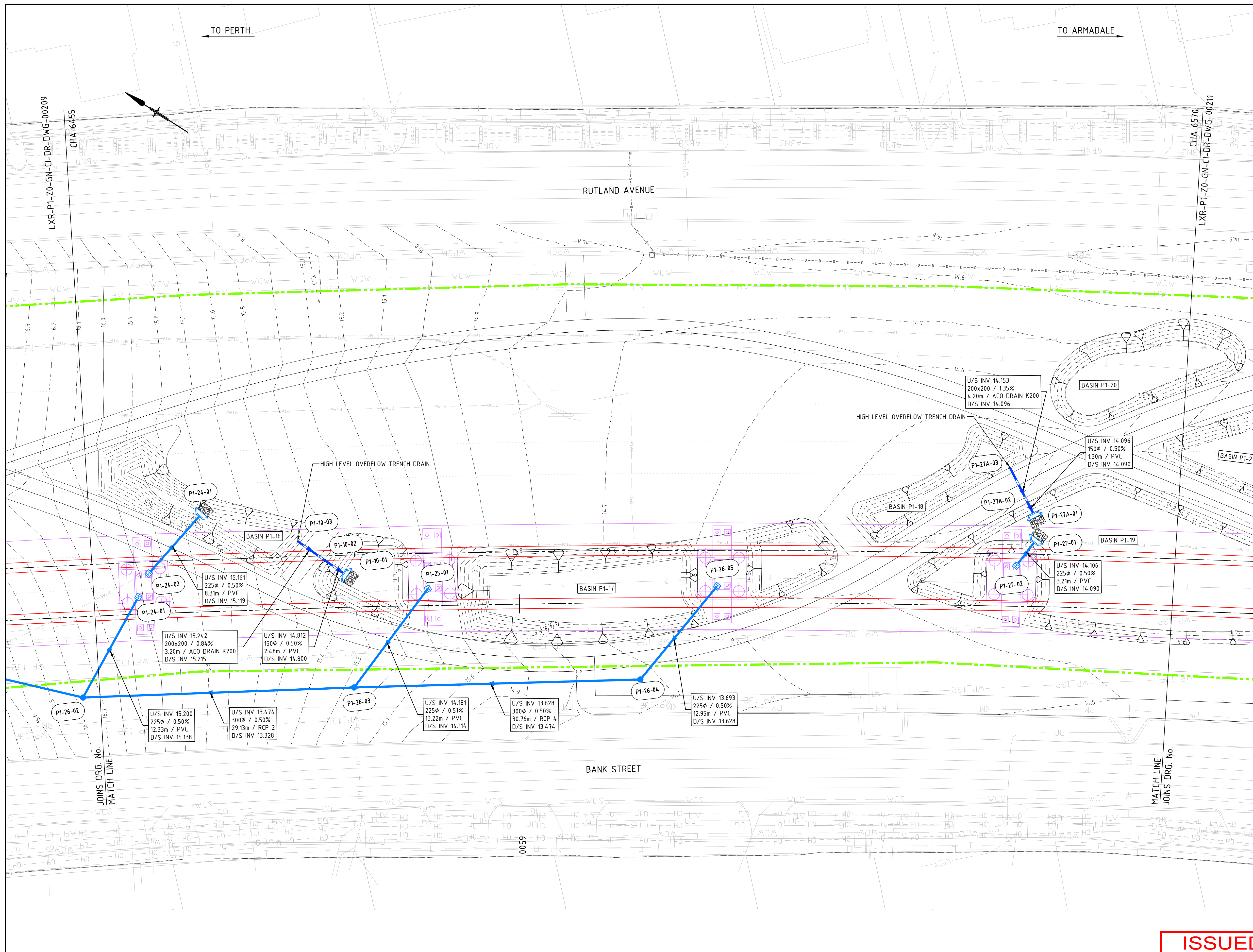
ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-ZO-GN-CI-DR-DWG-00209

REFERENCES		SCALE		DESIGNED	J.LIM
		1:200 (@A1)		DRAWN	L.CHEN
		DATUM		CHECKED	B.SASHEGYI
		HORIZONTAL: PCG20		APPROVED	F.WATERVOORT
		VERTICAL: AHD71		DATE	

 Government of Western Australia Public Transport Authority		VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL	
ARMADALE LINE - DRAINAGE			
CORRIDOR - PACKAGE 1			
GENERAL ARRANGEMENT - SHEET 9			
PTA Drawing No:		04-C-23-0091	Rev: B1.01



- NOTES**
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LEGEND

RAIL CORRIDOR DRAINAGE:

- DRAINAGE STRUCTURE NUMBER
- STATION PLAZA AREA BOUNDARY
- RAIL RESERVE BOUNDARY
- VIADUCT
- DRAINAGE PIPE
- MANHOLE
- GULLY PIT
- CATCHPIT
- END TREATMENT
- PVC FITTING
- KERB OPENING
- ROCK PROTECTION
- DRAINAGE BASIN
- OPEN CHANNEL
- SOAKWELL
- TRENCH DRAIN

TOVP DRAINAGE:

- ToVP DRAINAGE PIPE
- ToVP MANHOLE
- ToVP COMBINATION PIT

HYDRAULIC SERVICES

- HYDRAULIC SERVICES

DESIGN CONTOUR

- DESIGN MAJOR CONTOUR
- DESIGN MINOR CONTOUR

EXISTING DRAINAGE:

- EXISTING PIT AND PIPE
- EXISTING DRAINAGE TO BE REMOVED
- EXISTING OPEN CHANNEL
- EXISTING CONCRETE CHANNEL

EXISTING DRAINAGE PIPE INFORMATION

U/S INV 14.600
200Ø / 11.47%
2.56m / PVC
D/S INV 14.306

ISSUED FOR INFORMATION

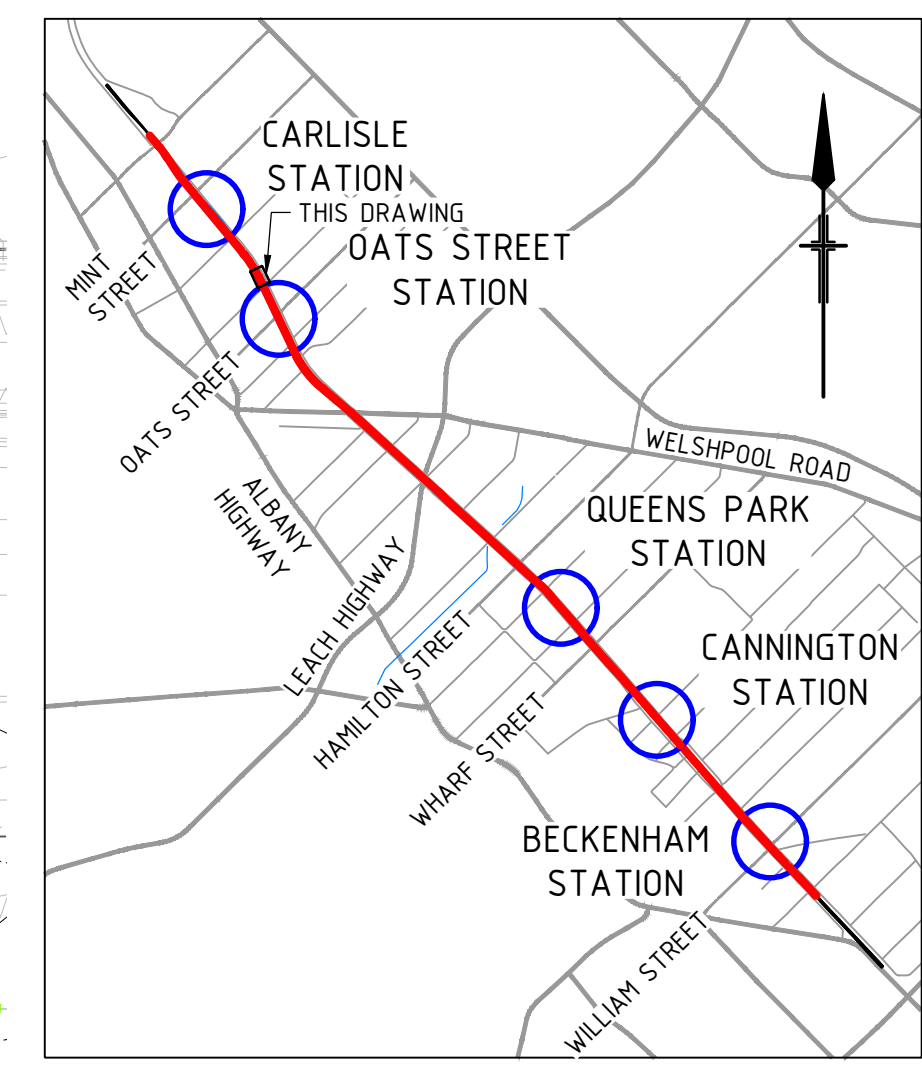
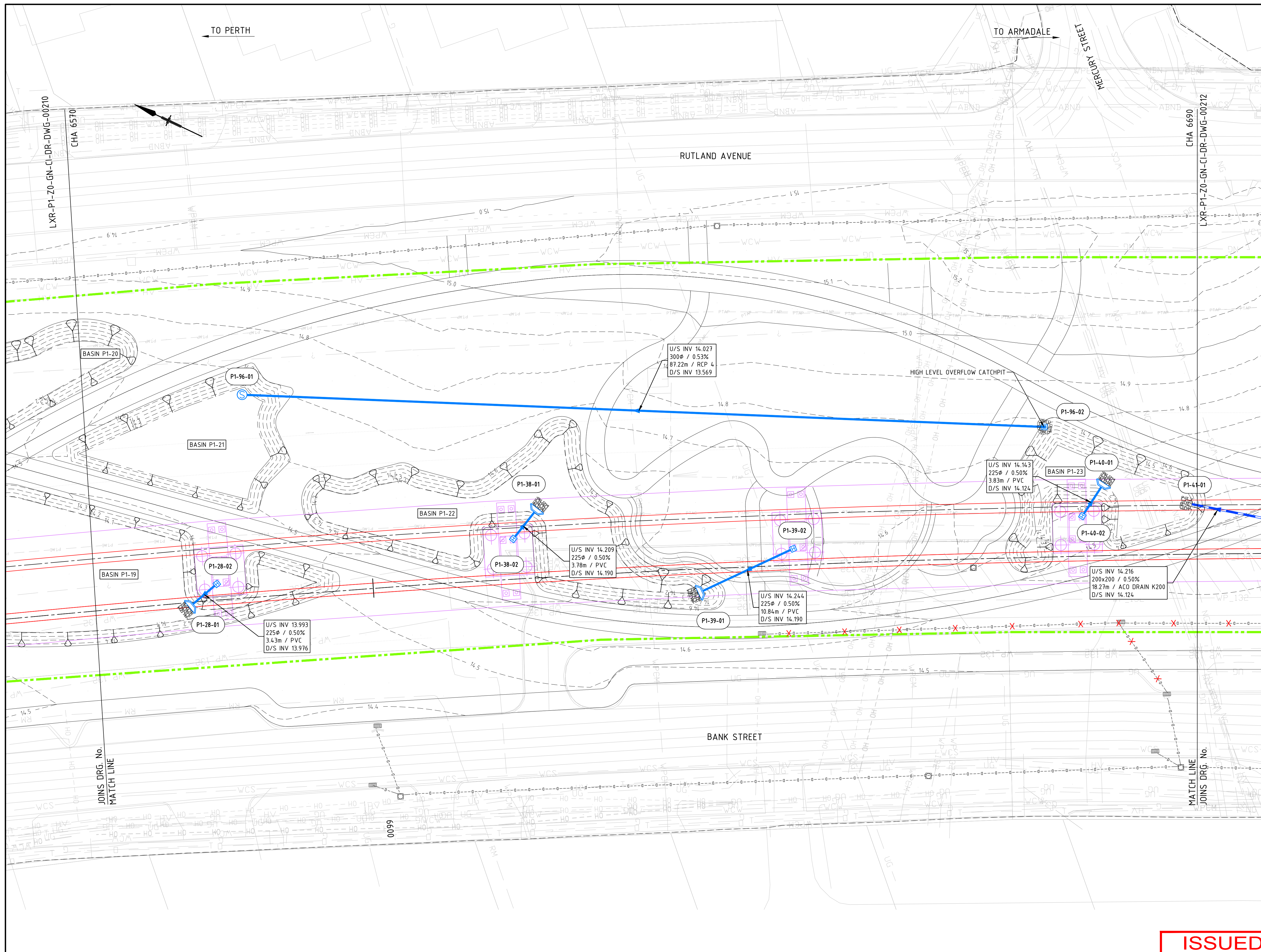
VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - DRAINAGE
CORRIDOR - PACKAGE 1
GENERAL ARRANGEMENT - SHEET 10
PTA Drawing No: **04-C-23-0092** Rev: **B1.01**

B1.01							
A				JL			
REV				JL			
DATE				JL			
ORIG SIZE				JL			
A1				JL			
ISSUED FOR REFERENCE DESIGN				JL			
AMENDMENT				JL			
0 10 20 30 40 50 100mm				JL			
AT ORIGINAL PLOT SIZE				JL			
This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.				JL			
Contractor No: LXR-P1-ZO-GN-CI-DR-DWG-00210				JL			

REFERENCES				SCALE			
				1:200 (@A1)			
				DESIGNED			
				J.LIM			
				DRAWN			
				L.CHEN			
				CHECKED			
				B.SASHEGYI			
				APPROVED			
				F.WATERVOORT			
				DATE			

ARMADALE LINE UPGRADE ALLIANCE				DESIGNED			
Innovation to Reality				J.LIM			
				DRAWN			
				L.CHEN			
				CHECKED			
				B.SASHEGYI			
				APPROVED			
				F.WATERVOORT			
				DATE			



LOCALITY PLAN

- NOTES**
- FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING LXR-PW-ZO-GN-CI-DR-DWG-00004.
 - DRAINAGE PIT AND PIPE NETWORKS HAVE NOT BEEN ASSESSED. THESE WILL BE ASSESSED DURING THE NEXT DESIGN PHASE.
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 - REFER TO DRAWINGS LXR-P1-Z1-ML-CI-DR-DWG-000201, LXR-P1-Z2-OL-CI-DR-DWG-00211 AND LXR-P1-Z2-WL-CI-DR-DWG-00221 FOR ROADS DRAINAGE DESIGN OUTSIDE THE RAIL CORRIDOR.
 - PERMEABLE PAVING FOR HARD LANDSCAPING AREAS TO BE CONSIDERED DURING THE NEXT DESIGN PHASE TO REDUCE REQUIRED BASIN VOLUME.
 - PIER DRAINAGE OUTLET SYSTEM IS SUBJECT TO PIER IN-SITU HEIGHT AND TO BE CONFIRMED DURING THE NEXT DESIGN PHASE.

LEGEND

(P2-03-48-1) DRAINAGE STRUCTURE NUMBER

STATION PLAZA AREA BOUNDARY

RAIL RESERVE BOUNDARY

VIADUCT

RAIL CORRIDOR DRAINAGE:

DRAINAGE PIPE

MANHOLE

GULLY PIT

CATCHPIT

END TREATMENT

PVC FITTING

KERB OPENING

ROCK PROTECTION

DRAINAGE BASIN

OPEN CHANNEL

SOAKWELL

TRENCH DRAIN

DRAINAGE PIPE INFORMATION

U/S INV 14.600
200Ø / 11.47%
2.56m / PVC
D/S INV 14.306

ToVP DRAINAGE:

ToVP DRAINAGE PIPE

ToVP MANHOLE

ToVP COMBINATION PIT

HYDRAULIC SERVICES

HYDRAULIC SERVICES

DESIGN CONTOUR

20 DESIGN MAJOR CONTOUR

20.1 DESIGN MINOR CONTOUR

EXISTING DRAINAGE:

EXISTING PIT AND PIPE

EXISTING DRAINAGE TO BE REMOVED

EXISTING OPEN CHANNEL

EXISTING CONCRETE CHANNEL

EXISTING DRAINAGE PIPE INFORMATION

U/S INV 14.600
200Ø / 11.47%
2.56m / PVC
D/S INV 14.306

ISSUED FOR INFORMATION

B1.01						JL	LC	BS	FW
A	31.08.22	ISSUED FOR REFERENCE DESIGN				JL	LC	BS	FW
REV	DATE	AMENDMENT				DSN	DRN	CHK	APP
ORIG SIZE	01020304050100mm AT ORIGINAL PLOT SIZE					This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.			
A1									

ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-ZO-GN-CI-DR-DWG-00211

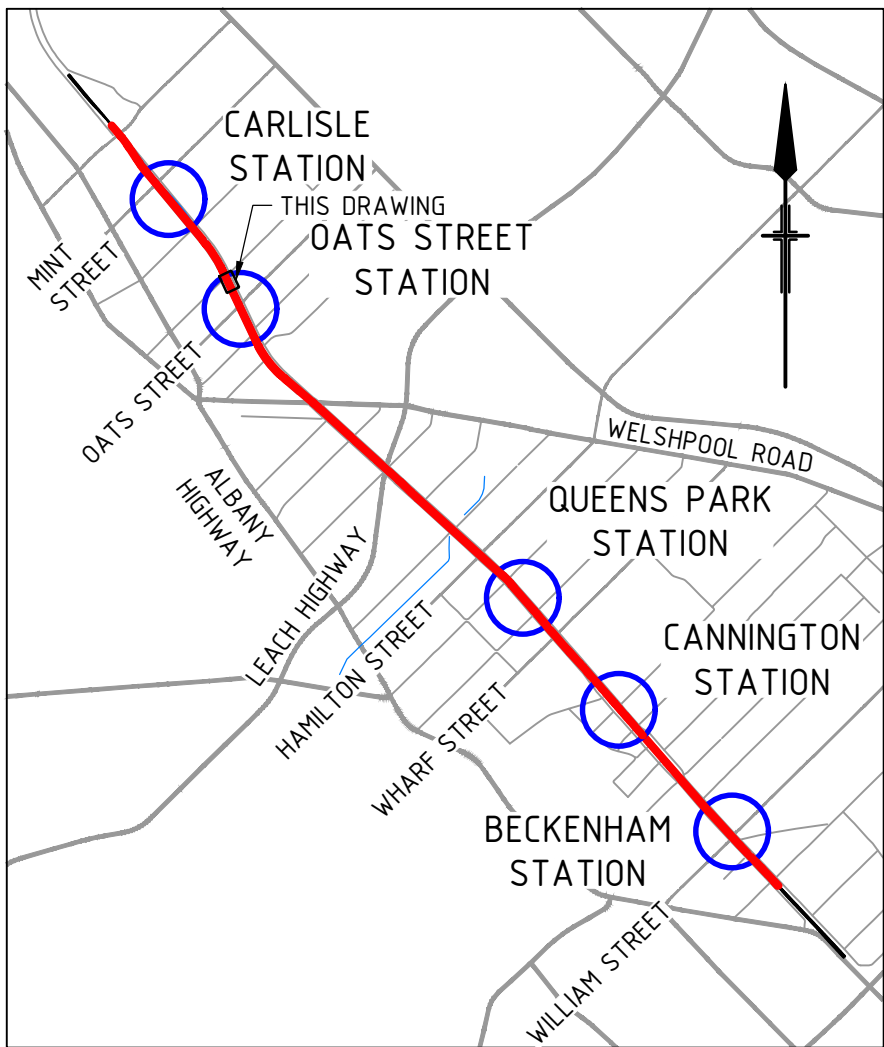
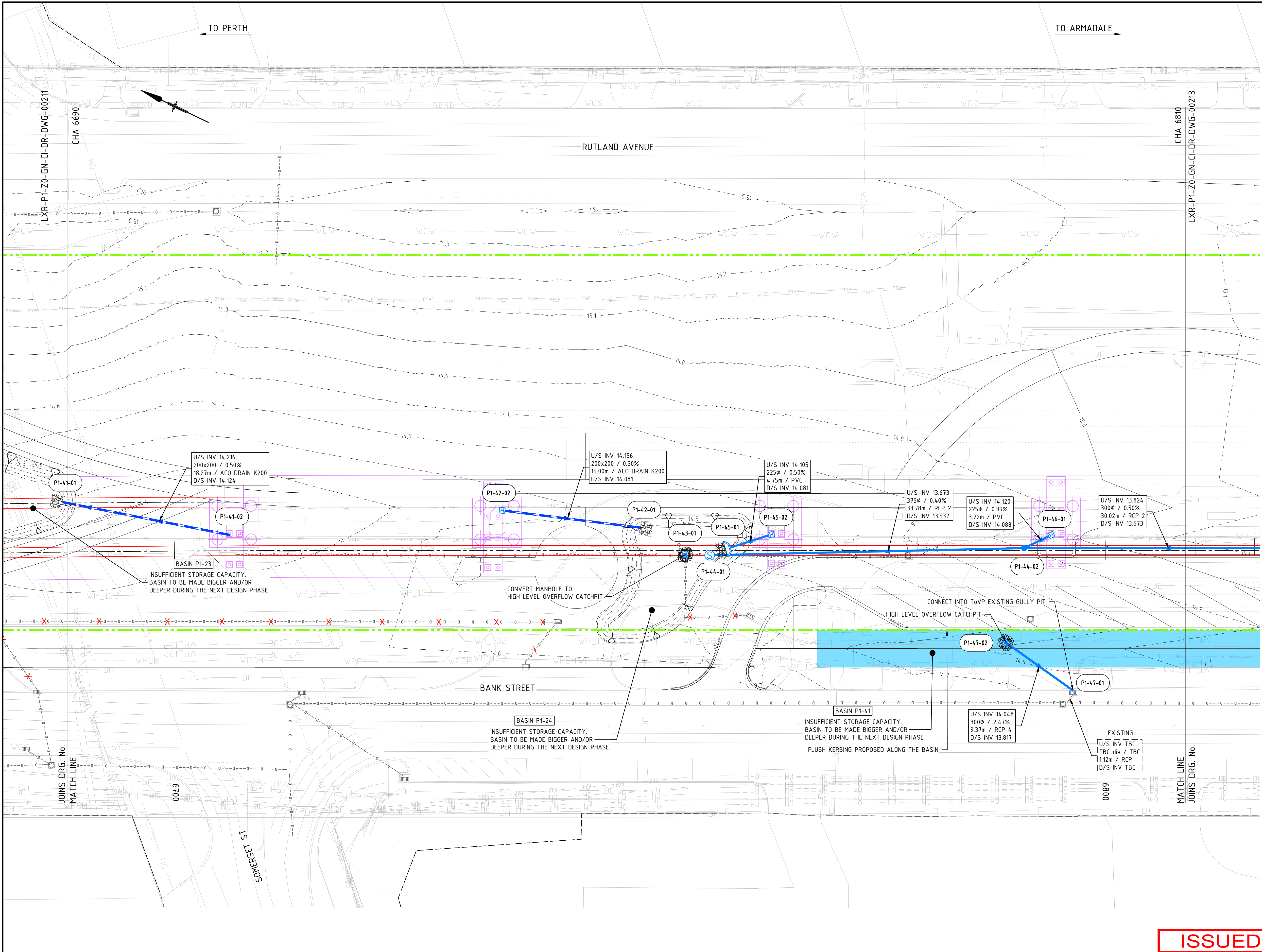
REFERENCES		SCALE	DESIGNED	J.LIM
		1:200 (@A1)	DRAWN	L.CHEN
		DATUM	CHECKED	B.SASHEGYI
		HORIZONTAL: PCG20	APPROVED	F.WATERVOORT
		VERTICAL: AHD71	DATE	

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - DRAINAGE
CORRIDOR - PACKAGE 1
GENERAL ARRANGEMENT - SHEET 11

PTA Drawing No: 04-C-23-0093 Rev: B1.01



LOCALITY PLAN

- NOTES**
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LEGEND

(P2-03-48-1) DRAINAGE STRUCTURE NUMBER

STATION PLAZA AREA BOUNDARY

RAIL RESERVE BOUNDARY

VIADUCT

RAIL CORRIDOR DRAINAGE:

DRAINAGE PIPE

MANHOLE

GULLY PIT

CATCHPIT

END TREATMENT

PVC FITTING

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ROCK PROTECTION

DRAINAGE BASIN

OPEN CHANNEL

SOAKWELL

TRENCH DRAIN

ToVP DRAINAGE:

ToVP DRAINAGE PIPE

ToVP MANHOLE

ToVP COMBINATION PIT

HYDRAULIC SERVICES

HYDRAULIC SERVICES

DESIGN CONTOUR

20 DESIGN MAJOR CONTOUR

20.1 DESIGN MINOR CONTOUR

EXISTING DRAINAGE:

EXISTING PIT AND PIPE

EXISTING DRAINAGE TO BE REMOVED

EXISTING OPEN CHANNEL

EXISTING CONCRETE CHANNEL

EXISTING DRAINAGE PIPE INFORMATION

ISSUED FOR INFORMATION

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - DRAINAGE
CORRIDOR - PACKAGE 1
GENERAL ARRANGEMENT - SHEET 12
PTA Drawing No: 04-C-23-0094 Rev: B1.01

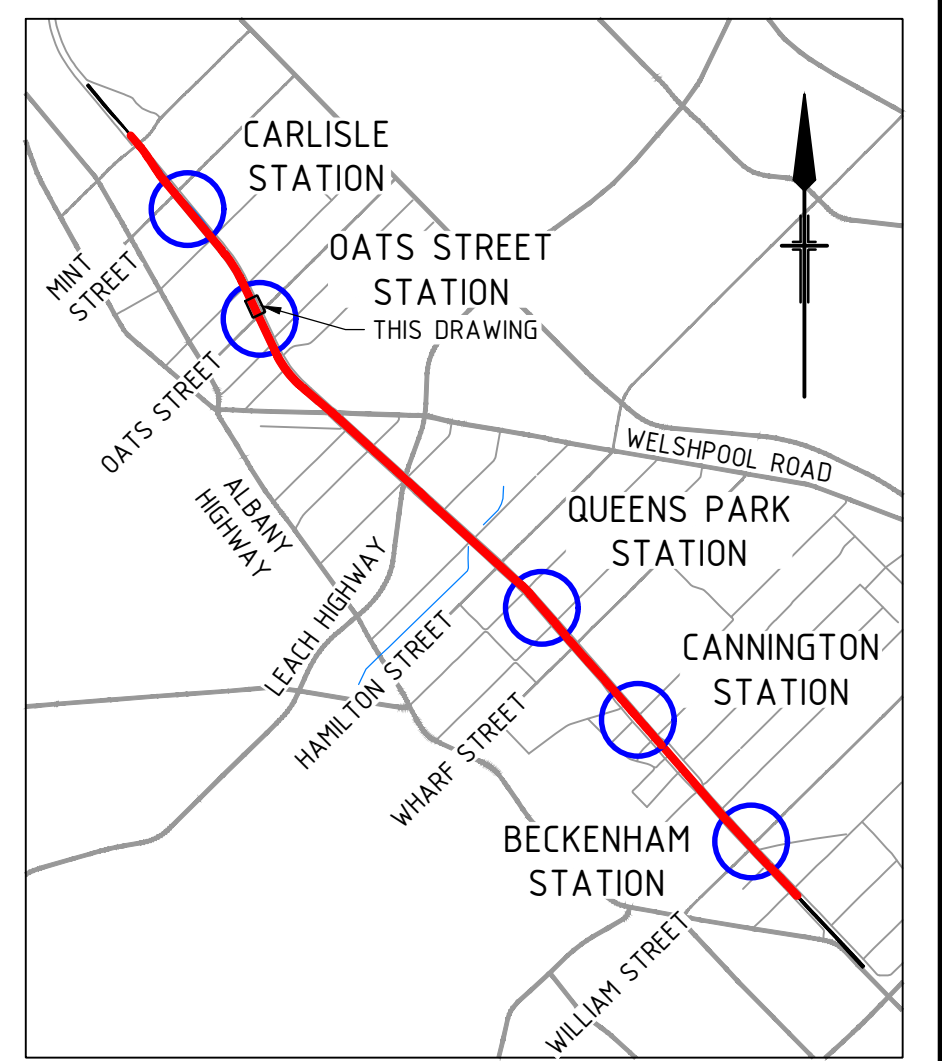
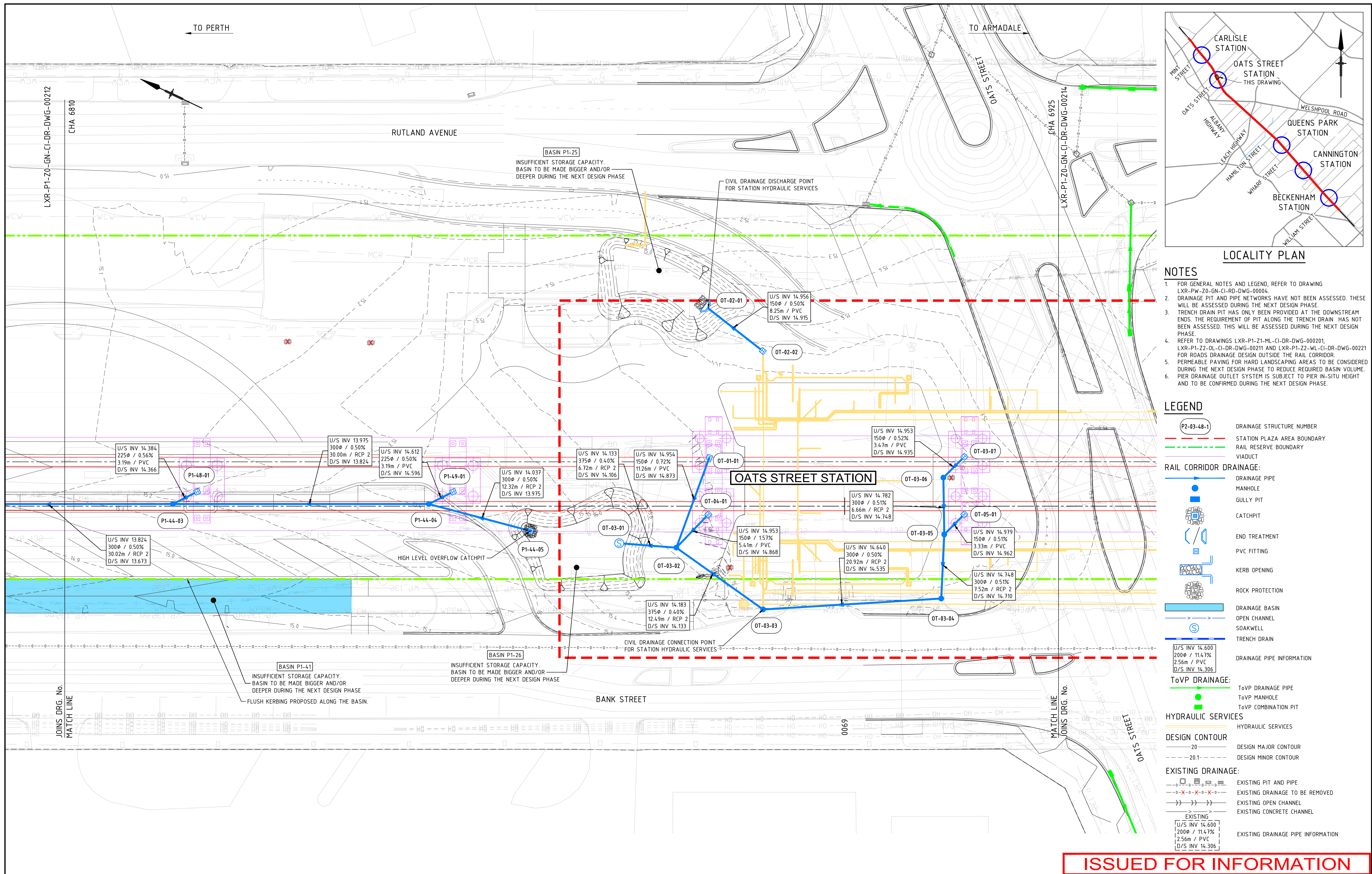
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ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-ZO-GN-CL-DR-DWG-00212

REFERENCES		SCALE		DESIGNED	
		1:200 (@A1)		J.LIM	
		DRAFT		L.CHEN	
		CHECKED		B.SASHEGYI	
		APPROVED		F.WATERVOORT	
		DATE			
DATUM					
HORIZONTAL: PCG20					
VERTICAL: AHD71					



LOCALITY PLAN

- NOTES**
- FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING LXR-PW-ZO-GN-CI-DR-DWG-00004.
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- LEGEND**
- (P2-03-48-1) DRAINAGE STRUCTURE NUMBER
 - STATION PLAZA AREA BOUNDARY
 - RAIL RESERVE BOUNDARY
 - VIADUCT

- RAIL CORRIDOR DRAINAGE:**
- DRAINAGE PIPE
 - MANHOLE
 - GULLY PIT
 - CATCHPIT
 - END TREATMENT
 - PVC FITTING
 - KERB OPENING
 - ROCK PROTECTION
 - DRAINAGE BASIN
 - OPEN CHANNEL
 - SOAKWELL
 - TRENCH DRAIN

- ToVP DRAINAGE:**
- ToVP DRAINAGE PIPE
 - ToVP MANHOLE
 - ToVP COMBINATION PIT

- HYDRAULIC SERVICES**
- HYDRAULIC SERVICES

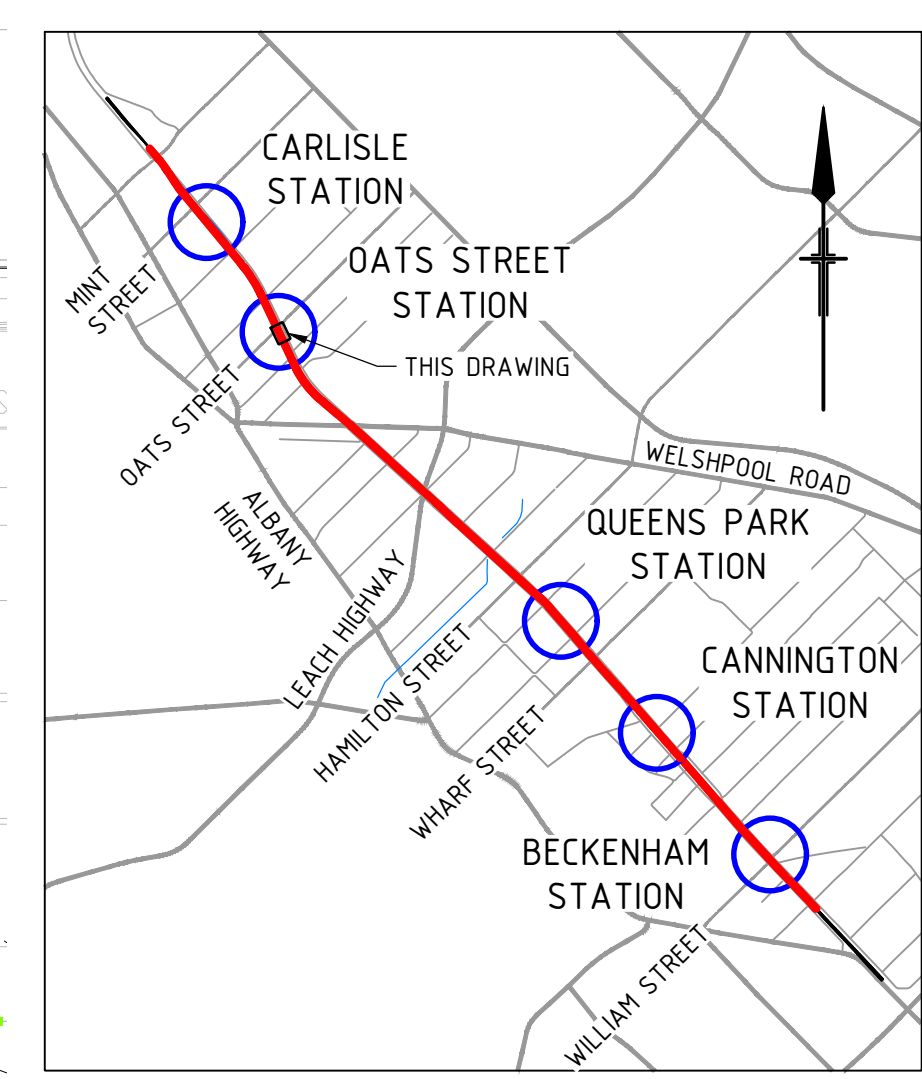
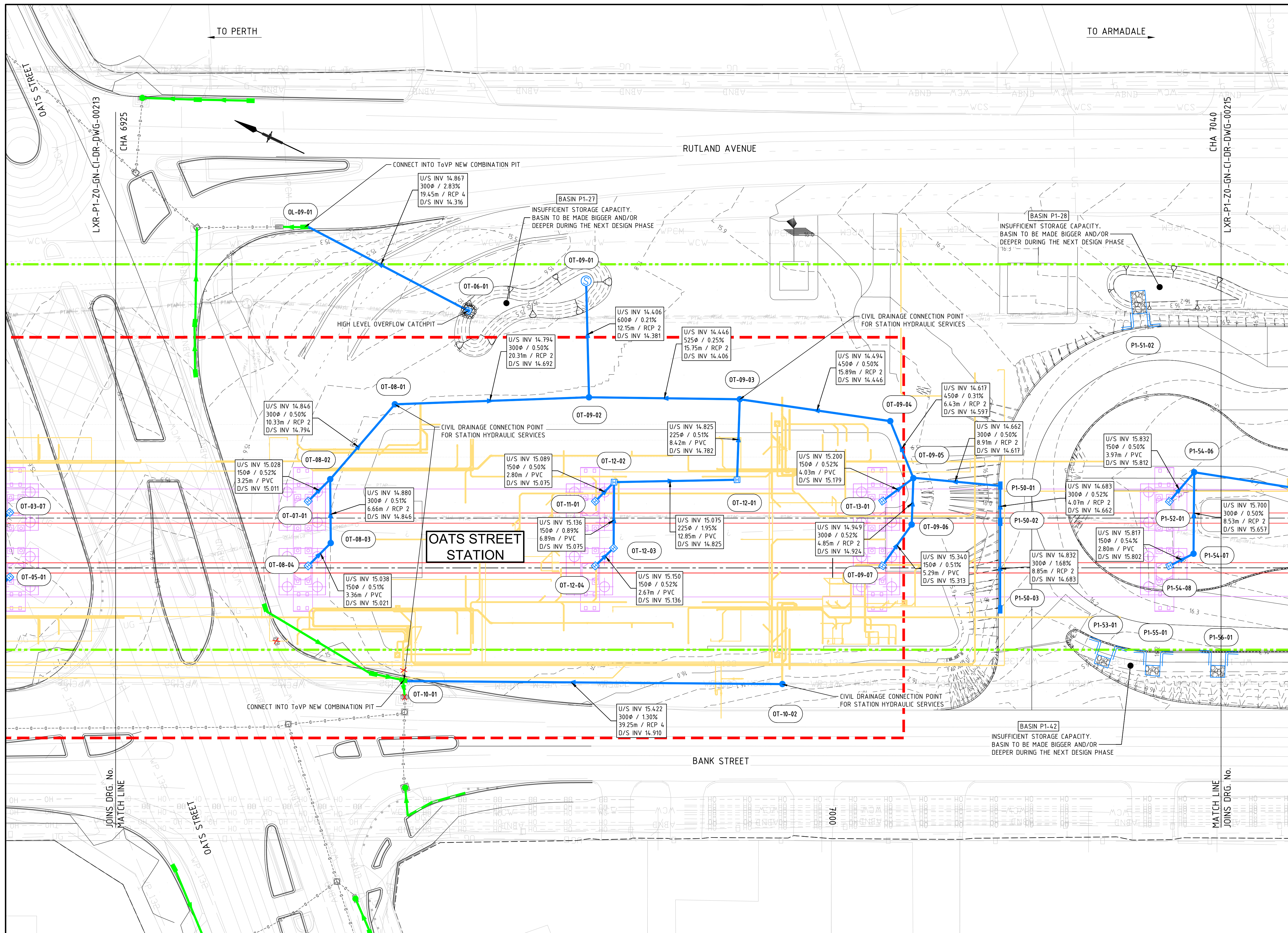
- DESIGN CONTOUR**
- 20 DESIGN MAJOR CONTOUR
 - 20.1 DESIGN MINOR CONTOUR

- EXISTING DRAINAGE:**
- EXISTING PIT AND PIPE
 - EXISTING DRAINAGE TO BE REMOVED
 - EXISTING OPEN CHANNEL
 - EXISTING CONCRETE CHANNEL

- EXISTING DRAINAGE PIPE INFORMATION**
- EXISTING DRAINAGE PIPE INFORMATION

ISSUED FOR INFORMATION

																REFERENCES				SCALE		DESIGNED J.LIM		 Government of Western Australia Public Transport Authority				VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL			
																				1:200 (@A1)		DRAWN L.CHEN						ARMADALE LINE - DRAINAGE			
																										CHECKED B.SASHEGYI		CORRIDOR - PACKAGE 1			
B1.01								J.L L.C B.S F.W												DATUM		APPROVED		GENERAL ARRANGEMENT - SHEET 13							
A				31.08.22				ISSUED FOR REFERENCE DESIGN				J.L L.C B.S F.W								HORIZONTAL: PCG20		F.WATEROOORT		PTA Drawing No: 04-C-23-0095				Rev: B1.01			
REV				DATE				AMENDMENT				DSN DRN CHK APP								VERTICAL: AHD71		DATE									
ORIG SIZE				0 10 20 30 40 50 100mm				This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.																							
A1				AT ORIGINAL PLOT SIZE																											
																Contractor No: LXR-P1-Z0-GN-CI-DR-DWG-00213															



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LEGEND

RAIL CORRIDOR DRAINAGE:

- Drainage Structure Number
- Station Plaza Area Boundary
- Rail Reserve Boundary
- Viaduct
- Drainage Pipe
- Manhole
- Gully Pit
- Catchpit
- End Treatment
- PVC Fitting
- Kerb Opening
- Rock Protection
- Drainage Basin
- Open Channel
- Soakwell
- Trench Drain
- Drainage Pipe Information

ToVP DRAINAGE:

- ToVP Drainage Pipe
- ToVP Manhole
- ToVP Combination Pit

HYDRAULIC SERVICES

- Hydraulic Services

DESIGN CONTOUR

- 20
- 20.1

EXISTING DRAINAGE:

- Existing Pit and Pipe
- Existing Drainage to be Removed
- Existing Open Channel
- Existing Concrete Channel
- Existing Drainage Pipe Information

ISSUED FOR INFORMATION

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - DRAINAGE
CORRIDOR - PACKAGE 1
GENERAL ARRANGEMENT - SHEET 14
PTA Drawing No: 04-C-23-0096 Rev: B1.01

B1.01	31.08.22	ISSUED FOR REFERENCE DESIGN	JL	LC	BS	FW
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1						

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

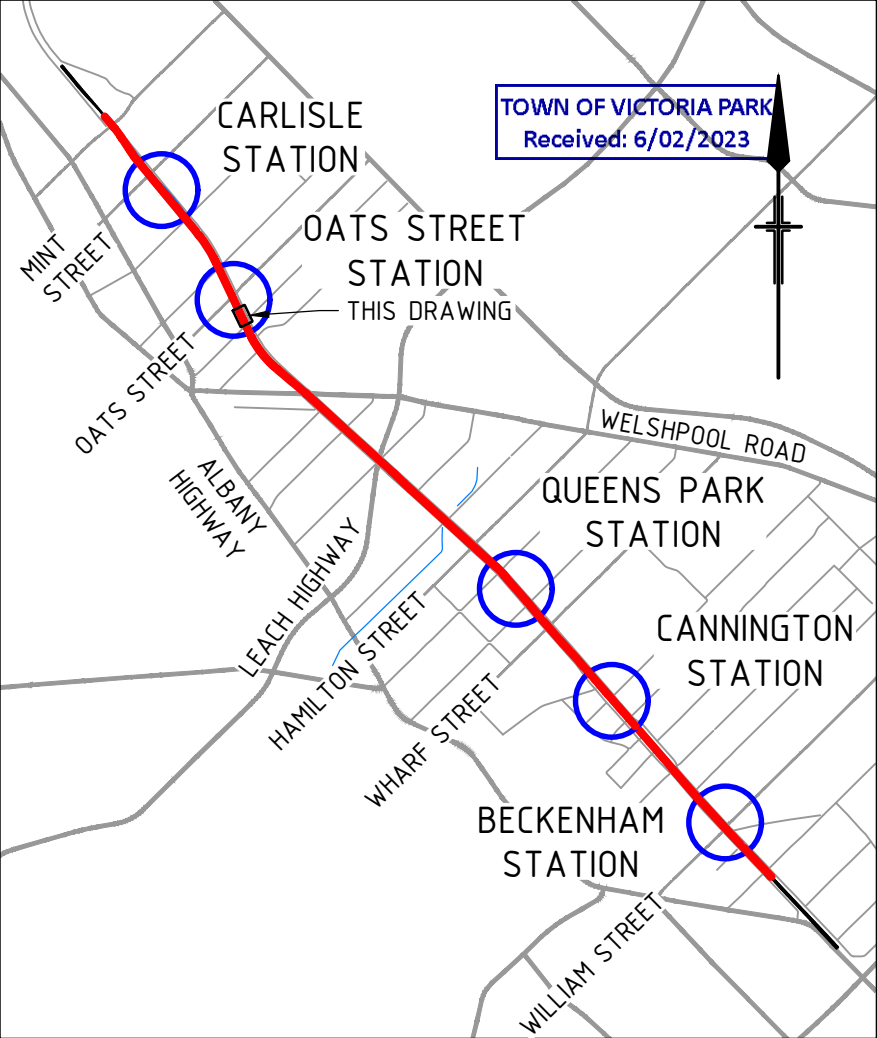
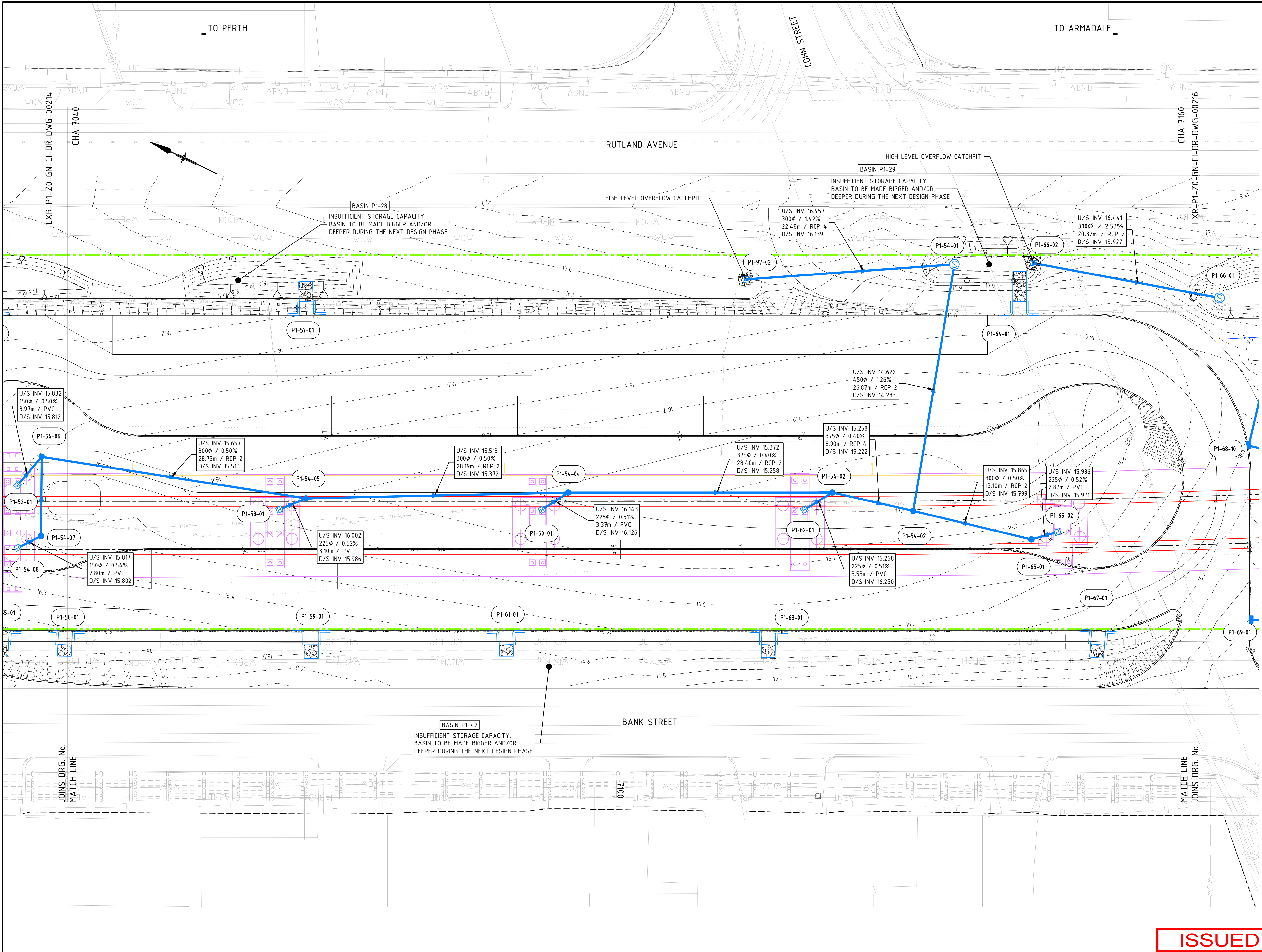
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ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-ZO-GN-CI-DR-DWG-00214

REFERENCES	SCALE	DESIGNED	J.LIM
	1:200 (@A1)	DRAWN	L.CHEN
	DATUM	CHECKED	B.SASHEGYI
	HORIZONTAL: PCG20	APPROVED	F.WATERVOORT
	VERTICAL: AHD71	DATE	



- NOTES**
- FOR GENERAL NOTES AND LEGEND, REFER TO DRAWING LXR-PW-Z0-GN-CI-DR-DWG-00004.
 - DRAINAGE PIT AND PIPE NETWORKS HAVE NOT BEEN ASSESSED. THESE WILL BE ASSESSED DURING THE NEXT DESIGN PHASE.
 - TRENCH DRAIN PIT HAS ONLY BEEN PROVIDED AT THE DOWNSTREAM ENDS. THE REQUIREMENT OF PIT ALONG THE TRENCH DRAIN HAS NOT BEEN ASSESSED. THIS WILL BE ASSESSED DURING THE NEXT DESIGN PHASE.
 - REFER TO DRAWINGS LXR-P1-Z1-ML-CI-DR-DWG-000201, LXR-P1-Z2-OL-CI-DR-DWG-00211 AND LXR-P1-Z2-WL-CI-DR-DWG-00221 FOR ROADS DRAINAGE DESIGN OUTSIDE THE RAIL CORRIDOR.
 - PERMEABLE PAVING FOR HARD LANDSCAPING AREAS TO BE CONSIDERED DURING THE NEXT DESIGN PHASE TO REDUCE REQUIRED BASIN VOLUME.
 - PIER DRAINAGE OUTLET SYSTEM IS SUBJECT TO PIER IN-SITU HEIGHT AND TO BE CONFIRMED DURING THE NEXT DESIGN PHASE.

LEGEND

(P2-03-48-1) DRAINAGE STRUCTURE NUMBER

STATION PLAZA AREA BOUNDARY

RAIL RESERVE BOUNDARY

VIADUCT

RAIL CORRIDOR DRAINAGE:

DRAINAGE PIPE

MANHOLE

GULLY PIT

CATCHPIT

END TREATMENT

PVC FITTING

KERB OPENING

ROCK PROTECTION

DRAINAGE BASIN

OPEN CHANNEL

SOAKWELL

TRENCH DRAIN

ToVP DRAINAGE:

ToVP DRAINAGE PIPE

ToVP MANHOLE

ToVP COMBINATION PIT

HYDRAULIC SERVICES

HYDRAULIC SERVICES

DESIGN CONTOUR

20 DESIGN MAJOR CONTOUR

20.1 DESIGN MINOR CONTOUR

EXISTING DRAINAGE:

EXISTING PIT AND PIPE

EXISTING DRAINAGE TO BE REMOVED

EXISTING OPEN CHANNEL

EXISTING CONCRETE CHANNEL

EXISTING DRAINAGE PIPE INFORMATION

ISSUED FOR INFORMATION

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - DRAINAGE
CORRIDOR - PACKAGE 1
GENERAL ARRANGEMENT - SHEET 15

PTA Drawing No: 04-C-23-0097 Rev: B1.01

B1.01	31.08.22	ISSUED FOR REFERENCE DESIGN	JL	LC	BS	FW
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1						

0 10 20 30 40 50 100mm

AT ORIGINAL PLOT SIZE

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ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-P1-Z0-GN-CI-DR-DWG-00215

REFERENCES	SCALE	DESIGNED
	1:200 (@A1)	J.LIM
		DRAWN
		L.CHEN
		CHECKED
		B.SASHEGYI
		APPROVED
		F.WATERVOORT
		DATE

DATUM

HORIZONTAL: PCG20

VERTICAL: AHD71

