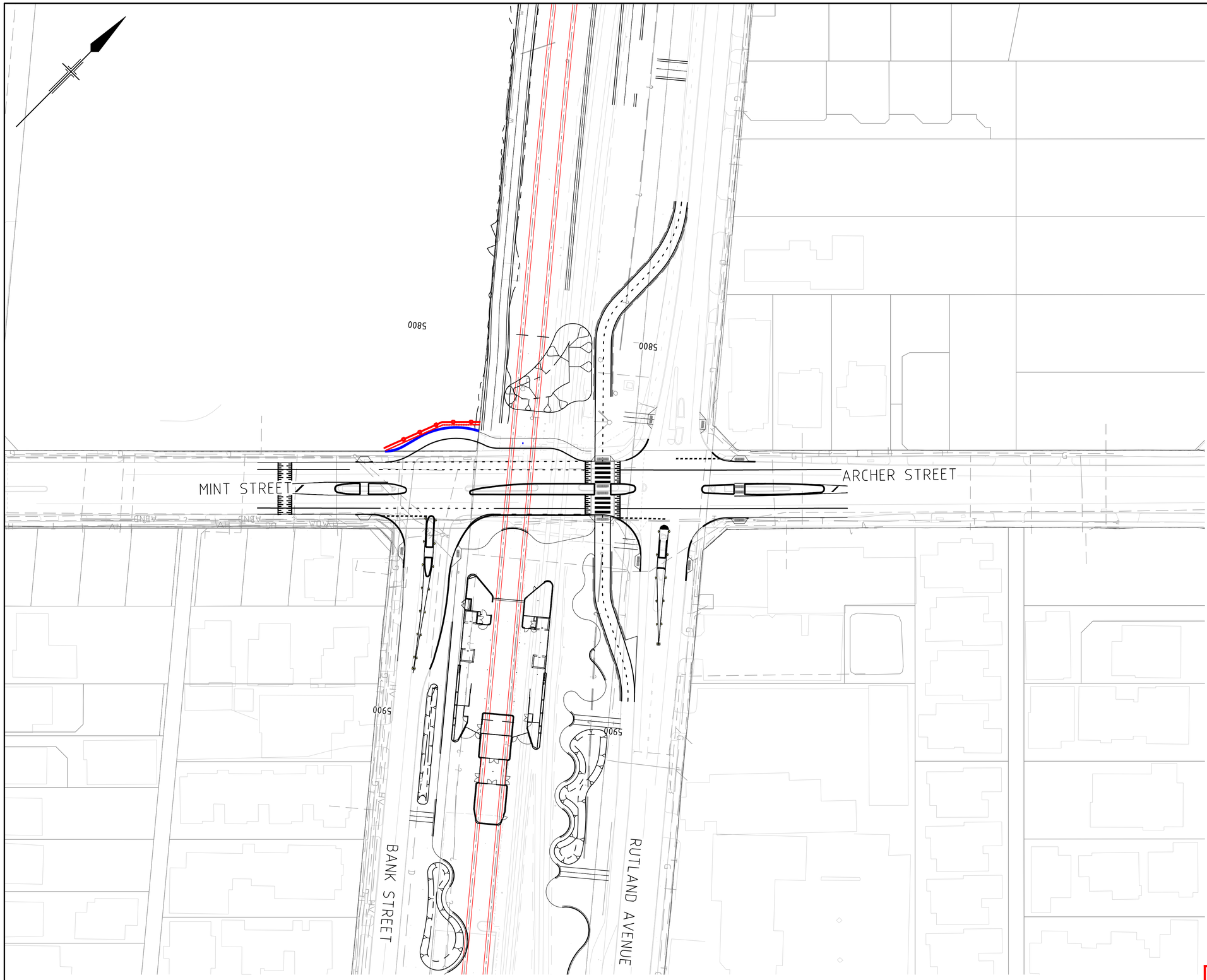
Appendix P - Civil Road Drawings



NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. DESIGN CONSIDERATION:
   RAISED PLATFORM REMOVED. GIVE WAY TO PASS SD.
   6m RAISED PD CROSSING = 75mm
   80m TO SPEED HUMP 3.75m AND SEPARATED FROM PEDESTRIAN CROSSING.
   BUS TURN HEAD ADJUSTMENTS.
   DESIGN SPEED = POSTED+10=50km/h.
   DESIGN VEHICLE = SU 8.8m
   CHECK VEHICLE = SU 12.5m
   ARTICULATED BUS MOVEMENT
   MINT STREET MEDIAN ISLAND NOSE SHORTER.

1:500 0 10 20 30m

ISSUED FOR INFORMATION

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1.01	21.12.22	ISSUED FOR INFORMATION				

ORIG SIZE A1

0 10 20 30 40 50 100mm
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.

ARMADALE LINE UPGRADE ALLIANCE
Innovation to Reality

Contractor No: LXR-P1-Z1-ML-CI-RD-SKT-00010

REFERENCES

SCALE 1:500 (@A1)

DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED N.ANDERSON
DRAWN P.HAYLES
CHECKED B.SASHEGYI
APPROVED Y.SIDDIQUI
DATE

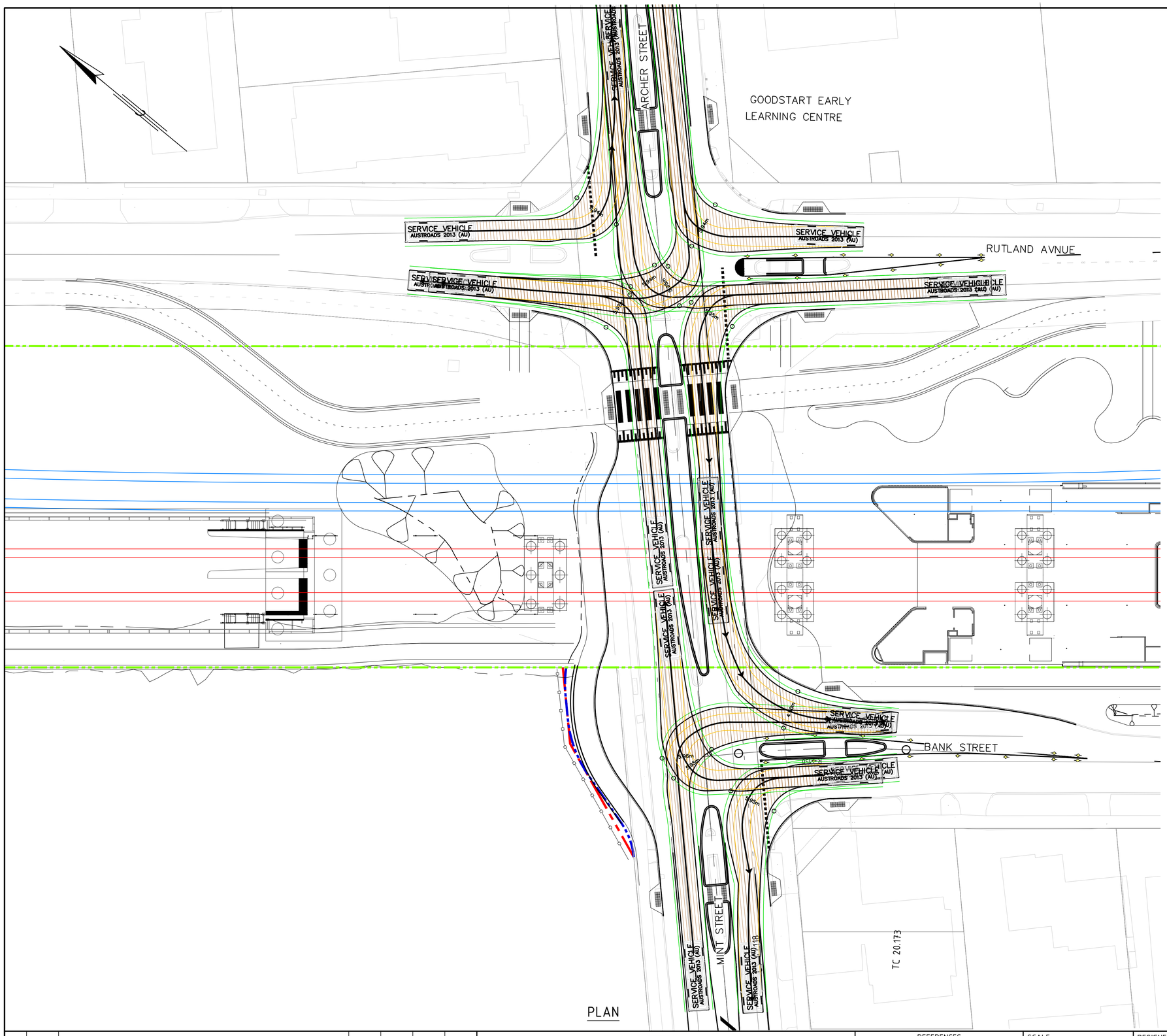
Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

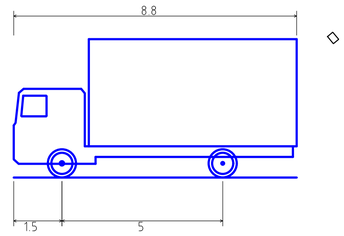
ARMADALE LINE - ROAD
MINT STREET LEVEL CROSSING
CONCEPT PLAN

PTA Drawing No:

Rev: A1.01



PLAN



Service Vehicle (8.8 m)	
Overall Length	8.800m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.427m
Track Width	2.500m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	9.000m

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1.01	21.12.22	ISSUED FOR INFORMATION				

ORIG SIZE A1

0 10 20 30 40 50 100mm

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.

ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor NKR-P1-Z1-GN-RD-SKT-00001

REFERENCES

LXR-PW-Z0-GN-CI-RD-M2D-00121-SWEPT PATH MASTER
LXR-P1-Z0-GN-CI-RD-M2D-00004-ROAD CONTROLS
LXR-P1-Z0-GN-CI-CR-M2D-00001-CORRIDOR DESIGN
LXR-PW-Z0-GN-ST-CS-M2D-00001-VIADUCT-1
LXR-PW-Z0-GN-ST-CS-M2D-00002-VIADUCT-2
LXR-PW-Z0-GN-ST-CS-M2D-00003-VIADUCT-3
LXR-P2-Z0-GN-CI-CR-M2D-00001-CORRIDOR DESIGN
LXR-PW-Z0-GN-MG-SU-M2D-00003-SURVEY
LXR-PW-Z0-GN-MG-SU-M2D-00006-CADASTRE
LXR-PW-Z0-GN-MG-SU-M2D-00009-MRS
LXR-PW-Z0-GN-MG-SU-M2D-00010-RAIL RESERVE
LXR-PW-Z0-GN-ST-RW-M2D-00001-RETAINING WALLS & ABUTMENTS
LXR-PW-Z0-GN-RL-TR-M2D-00012-EARTHWORKS
LXR-P2-Z0-GN-CI-RD-M2D-00004-ROAD CONTROLS
LXR-P2-Z0-GN-CI-RD-M2D-00001-ROAD DESIGN
LXR-P2-Z0-GN-CI-RD-M2D-00102-ROAD CAD
LXR-P1-Z0-GN-CI-CR-M2D-00004-CORRIDOR CAD
LXR-P2-Z0-GN-CI-CR-M2D-00004-CORRIDOR CAD
LXR-P1-Z1-GR-SK-AR-M3D-00100

SCALE 1:250 (@A1)

DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED N.ANDERSON
DRAWN P.HAYLES
CHECKED B.SASHEGYI
APPROVED
DATE

ISSUED FOR INFORMATION

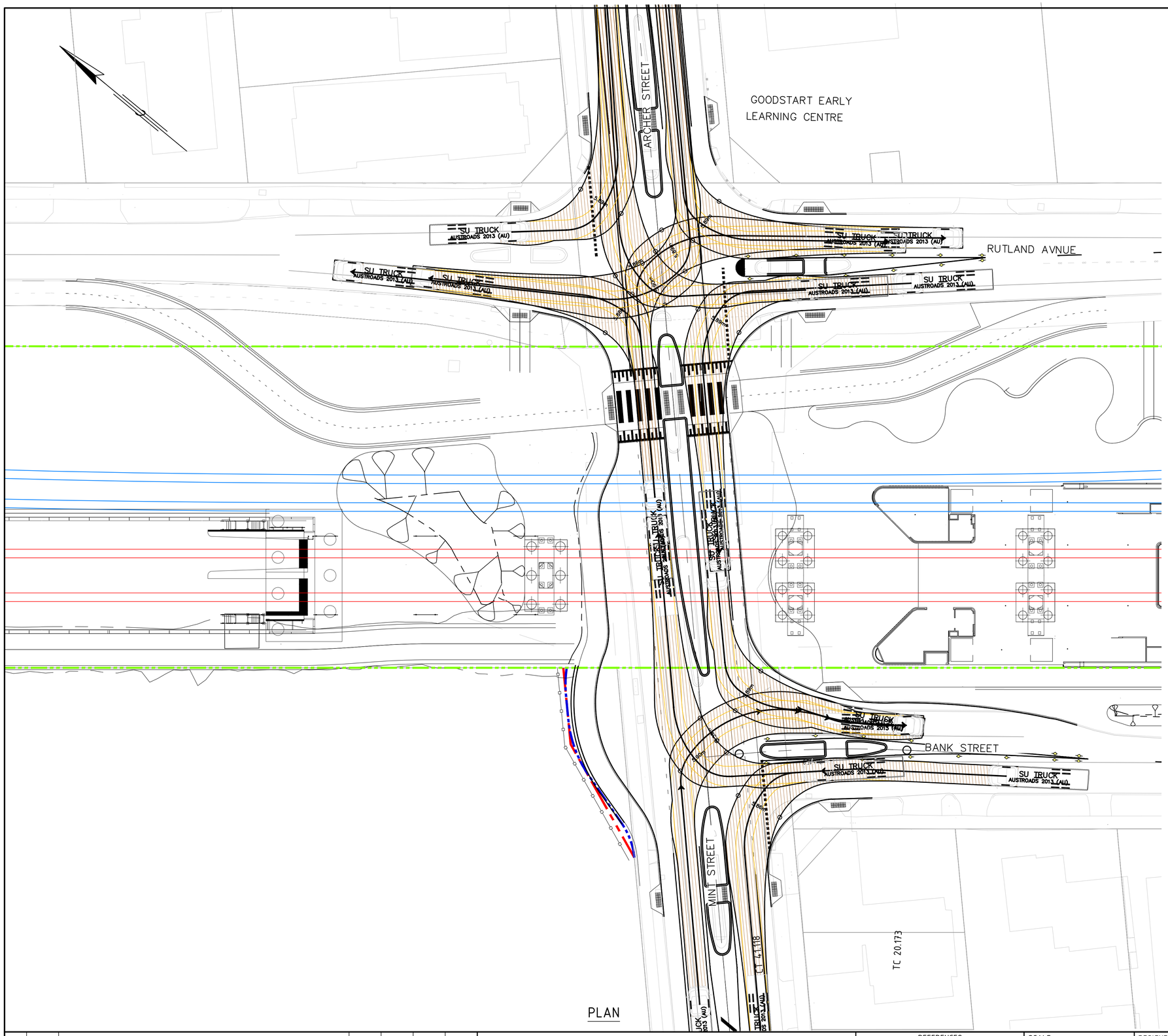
Government of Western Australia Public Transport Authority

VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL

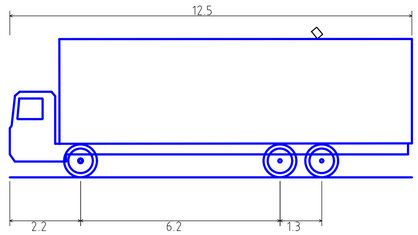
ARMADALE LINE - ROAD
MINT STREET LEVEL CROSSING
8.8m SERVICE VEHICLE SWEPT PATH

PTA Drawing No: Rev A1.01

CAD DRAWING PATHNAME C:\pwworking\wsp-aus-pw.bentley.com_wsp-aus-pw-19\d0184263\LXR-P1-Z1-GN-RD-SKT-00001.dwg



PLAN



Single Unit Truck/Bus (12.5 m)	
Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

ISSUED FOR INFORMATION

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1.01	21.12.22	ISSUED FOR INFORMATION				

ORIG SIZE A1

0 10 20 30 40 50 100mm

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.

ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contract: LXR-P1-Z1-GN-RD-SKT-0000100

REFERENCES

LXR-PW-Z0-GN-CI-RD-M2D-00121-SWEPT PATH MASTER
LXR-P1-Z0-GN-CI-RD-M2D-00004-ROAD CONTROLS
LXR-P1-Z0-GN-CI-CR-M2D-00001-CORRIDOR DESIGN
LXR-PW-Z0-GN-ST-CS-M2D-00001-VIADUCT-1
LXR-PW-Z0-GN-ST-CS-M2D-00002-VIADUCT-2
LXR-PW-Z0-GN-ST-CS-M2D-00003-VIADUCT-3
LXR-P2-Z0-GN-CI-CR-M2D-00001-CORRIDOR DESIGN
LXR-PW-Z0-GN-MG-SU-M2D-00003-SURVEY
LXR-PW-Z0-GN-MG-SU-M2D-00006-CADASTRE
LXR-PW-Z0-GN-MG-SU-M2D-00009-MRS
LXR-PW-Z0-GN-MG-SU-M2D-00010-RAIL RESERVE
LXR-PW-Z0-GN-ST-RW-M2D-00001-RETAINING WALLS & ABUTMENTS
LXR-PW-Z0-GN-RL-TR-M2D-00012-EARTHWORKS
LXR-P2-Z0-GN-CI-RD-M2D-00004-ROAD CONTROLS
LXR-P2-Z0-GN-CI-RD-M2D-00001-ROAD DESIGN
LXR-P2-Z0-GN-CI-RD-M2D-00102-ROAD CAD
LXR-P1-Z0-GN-CI-CR-M2D-00004-CORRIDOR CAD
LXR-P2-Z0-GN-CI-CR-M2D-00004-CORRIDOR CAD
LXR-P1-Z1-GR-SN-AR-M2D-00100

SCALE
1:250 (@A1)

DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED N.ANDERSON
DRAWN P.HAYLES
CHECKED B.SASHEGYI
APPROVED
DATE

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LIINE - ROAD
MINT STREET LEVEL CROSSING
12.5m SINGLE UNIT SWEPT PATH

PTA Drawing No:

Rev A1.01

CAD DRAWING PATHNAME C:\pwworking\wsp-aus-pw.bentley.com_wsp-aus-pw-19\d0184263\LXR-P1-Z1-GN-RD-SKT-0000100.dwg

GOODSTART EARLY
LEARNING CENTRE

RUTLAND AVNUE

MINT STREET

ARTICULATED BUS 19M
AUSTROADS 2013 (AU)

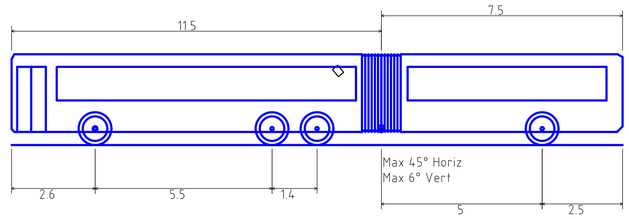
BANK STREET

ARTICULATED BUS T9M
AUSTROADS 2013 (AU)

CT 41118

TC 20173

PLAN



Articulated Bus (19.0m)	
Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	2.823m
Min Body Ground Clearance	0.410m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m

ISSUED FOR INFORMATION

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1.01	21.12.22	ISSUED FOR INFORMATION				

ORIG SIZE A1

0 10 20 30 40 50 100mm
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.

ARMADALE LINE UPGRADE ALLIANCE
Innovation to Reality

Contractor No. LXR-P1-Z1-GN-RD-SKT-0000101

REFERENCES
LXR-PW-Z0-GN-CI-RD-M2D-00121-SWEPT PATH MASTER
LXR-P1-Z0-GN-CI-RD-M2D-00004-ROAD CONTROLS
LXR-P1-Z0-GN-CI-CR-M2D-00001-CORRIDOR DESIGN
LXR-PW-Z0-GN-ST-CS-M2D-00001-VIADUCT-1
LXR-PW-Z0-GN-ST-CS-M2D-00002-VIADUCT-2
LXR-PW-Z0-GN-ST-CS-M2D-00003-VIADUCT-3
LXR-P2-Z0-GN-CI-CR-M2D-00001-CORRIDOR DESIGN
LXR-PW-Z0-GN-MG-SU-M2D-00003-SURVEY
LXR-PW-Z0-GN-MG-SU-M2D-00006-CADASTRE
LXR-PW-Z0-GN-MG-SU-M2D-00009-MRS
LXR-PW-Z0-GN-MG-SU-M2D-00010-RAIL RESERVE
LXR-PW-Z0-GN-ST-RW-M2D-00001-RETAINING WALLS & ABUTMENTS
LXR-PW-Z0-GN-RL-TR-M2D-00012-EARTHWORKS
LXR-P2-Z0-GN-CI-RD-M2D-00004-ROAD CONTROLS
LXR-P2-Z0-GN-CI-RD-M2D-00001-ROAD DESIGN
LXR-P2-Z0-GN-CI-RD-M2D-00102-ROAD CAD
LXR-P1-Z0-GN-CI-CR-M2D-00004-CORRIDOR CAD
LXR-P2-Z0-GN-CI-CR-M2D-00004-CORRIDOR CAD
LXR-P1-Z1-GR-SK-AR-M2D-00100

SCALE
1:250 (@A1)

DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED N.ANDERSON
DRAWN P.HAYLES
CHECKED B.SASHEGYI
APPROVED
DATE

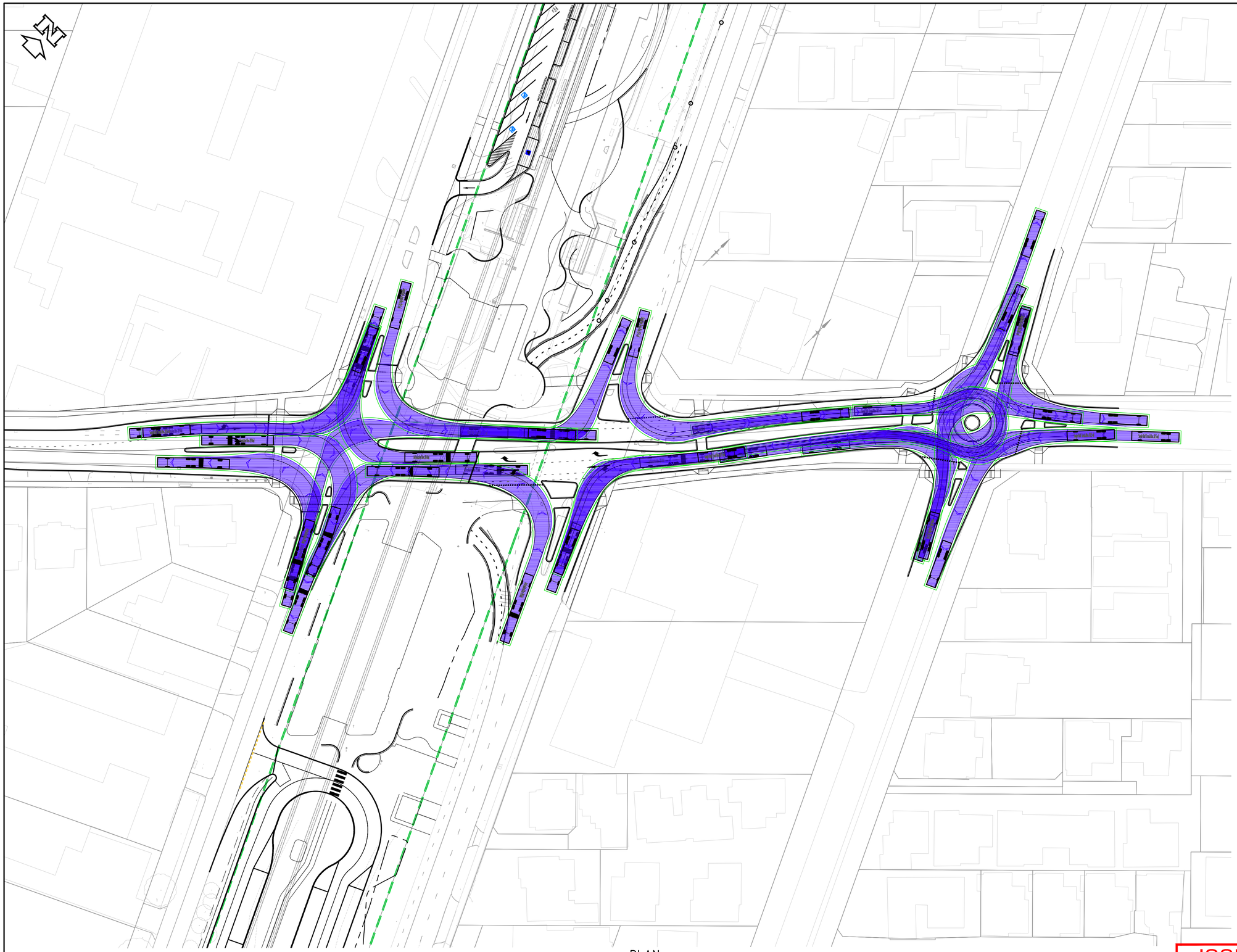
Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

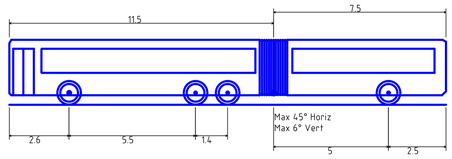
ARMADALE LINE - ROAD
MINT STREET LEVEL CROSSING
19m ARTICULARTED BUS SWEPT PATH

PTA Drawing No: Rev A1.01

CAD DRAWING PATHNAME C:\pwworking\wsp-aus-pw.bentley.com_wsp-aus-pw-19\d0184263\LXR-P1-Z1-GN-RD-SKT-0000101.dwg

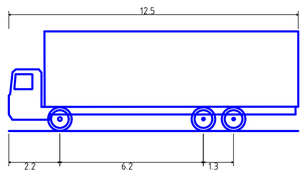


PLAN



Articulated Bus (19.0m)

Overall Length	19.000m
Overall Width	2.500m
Overall Body Height	2.823m
Min Body Ground Clearance	0.410m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m



Single Unit Truck/Bus (12.5 m)

Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.490m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

ISSUED FOR INFORMATION

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1.01	19.12.22	ISSUED FOR INFORMATION				

ORIG SIZE A1

0 10 20 30 40 50 100mm

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.

ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor DWR-P1-Z2-GN-RD-SKT-00021

REFERENCES

LXR-PW-Z0-CR-M2D-00002-SHEET-KEY-PLANS
LXR-PW-Z0-RD-M2D-00004-LEGEND-INTERSECTION
LXR-PW-Z0-CR-M2D-00001-LOCALITY-PLAN
LXR-PW-Z0-DR-M2D-00007-MASTER-INTERSECTION-SKETCH
LXR-PW-Z0-CR-M2D-00013-MRS-BOUNDARY
LXR-PW-Z0-CR-M2D-00011-CADASTRE
IALXR-WSP-S0100-ST-MDL-000001-AREA 1 VIADUCT PLAN
IALXR-WSP-S0200-ST-MDL-000001-AREA 2 VIADUCT PLAN
IALXR-WSP-ALL00-TR-MDL-000001-TRACK ALIGNMENT
LXR-PW-Z0-CR-M2D-00006-FEATURE-SURVEY-2D
LXR-P1-Z2-GN-RD-M2D-00001-ROAD-DESIGN
LXR-P1-Z0-GN-CI-RD-M2D-00001-ROAD DESIGN
LXR-P1-Z2-GN-RD-M2D-00001-TURNING MOVEMENT
LXR-PW-Z0-GN-MG-SU-M2D-00003-SURVEY
LXR-PW-Z0-GN-MG-SU-M2D-00005-LIDAR3TRC
LXR-P1-Z0-GN-CI-RD-M2D-00102-ROAD CAD
LXR-P1-Z1-GN-RD-M2D-00001-TURNING MOVEMENT
LXR-P1-Z1-GN-RD-M2D-00002-TURNING MOVEMENT
LXR-P1-Z3-JN-CT-CS-M2D-00001-DES BRIDGE

SCALE 1:250 (@A1)

DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED M.DAVIES
DRAWN M.DAVIES
CHECKED B.SASHEGYI
APPROVED
DATE

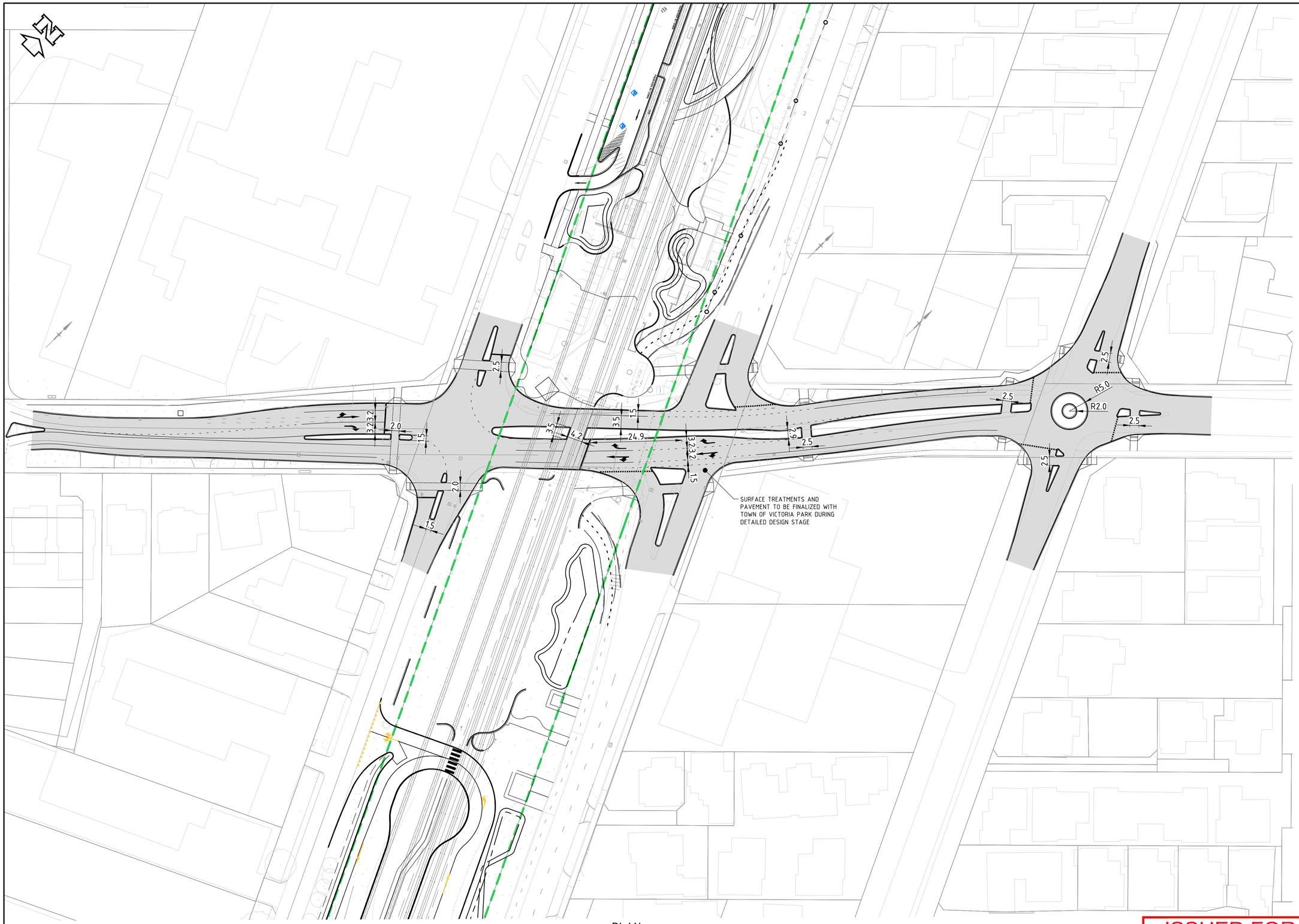
Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - ROAD
OATS STREET - MOVEMENTS
CONCEPT DESIGN

PTA Drawing No: Rev A1.02

CAD DRAWING PATHNAME C:\pwworking\wsp-aus-pw.bentley.com_wsp-aus-pw-19\d0184263\LXR-P1-Z2-GN-RD-SKT-00062.dwg



PLAN

NOTES

ALL DIMENSIONS ARE IN METERS UNLESS SHOWN OTHERWISE.

DESIGN CONSIDERATIONS:

- FULL PROTECTED PEDESTRIAN CROSSING
- NO RIGHT TURN ACCESS FROM OATS STREET ONTO RUTLAND STREET.
- DESIGN SPEED = 50KPH
- POSTED SPEED = 40KPH
- DESIGN VEHICLE = 19m ARTICULATED BUS (BANK/OATS)
- DESIGN VEHICLE = 12.5m SINGLE UNIT (RUTLAND/OATS)
- MINIMUM MEDIAN WIDTHS = 2.0m

ISSUED FOR INFORMATION

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A1.01	20.12.22	ISSUED FOR INFORMATION				

ORIG SIZE A1

0 10 20 30 40 50 100mm

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.

ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor Doc LXR-P1-Z2-GN-RD-SKT-00021

REFERENCES

LXR-PW-Z0-CR-M2D-00002-SHEET-KEY-PLANS
LXR-PW-Z0-RD-M2D-00004-LEGEND-INTERSECTION
LXR-PW-Z0-CR-M2D-00001-LOCALITY-PLAN
LXR-PW-Z0-DR-M2D-00007-MASTER-INTERSECTION-SKETCH
LXR-PW-Z0-CR-M2D-00013-MRS-BOUNDARY
LXR-PW-Z0-CR-M2D-00011-CADASTRE
IALXR-WSP-50100-ST-MDL-000001-AREA 1 VIADUCT PLAN
IALXR-WSP-50200-ST-MDL-000001-AREA 2 VIADUCT PLAN
IALXR-WSP-ALL00-TR-MDL-000001-TRACK ALIGNMENT
LXR-PW-Z0-CR-M2D-00006-FEATURE-SURVEY-2D
LXR-P1-Z2-GN-RD-M2D-00001-ROAD-DESIGN
LXR-P1-Z0-GN-CI-RD-M2D-00001-ROAD DESIGN
LXR-P1-Z2-GN-RD-M2D-00001-TURNING MOVEMENT
LXR-PW-Z0-GN-MG-SU-M2D-00003-SURVEY
LXR-PW-Z0-GN-RD-SU-M2D-00006-CADASTRE
LXR-P1-Z0-GN-CI-RD-M2D-00102-ROAD CAD
LXR-P1-Z1-GN-RD-M2D-00001-TURNING MOVEMENT
LXR-P1-Z1-GN-RD-M2D-00002-TURNING MOVEMENT
LXR-P1-Z3-WI-ST-ST-M2D-00001-RSB BRIDGE

SCALE

1:500 (@A1)

DATUM

HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED M.DAVIES
DRAWN M.DAVIES
CHECKED CONCEPT PLAN
APPROVED
DATE

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ARMADALE LINE - ROAD
OATS STREET INTERSECTION
CONCEPT PLAN

PTA Drawing No: Rev A1.02

CAD DRAWING PATHNAME C:\pwworking\wsp-aus-pw.bentley.com_wsp-aus-pw-19\d0184263\LXR-P1-Z2-GN-RD-SKT-00063.dwg