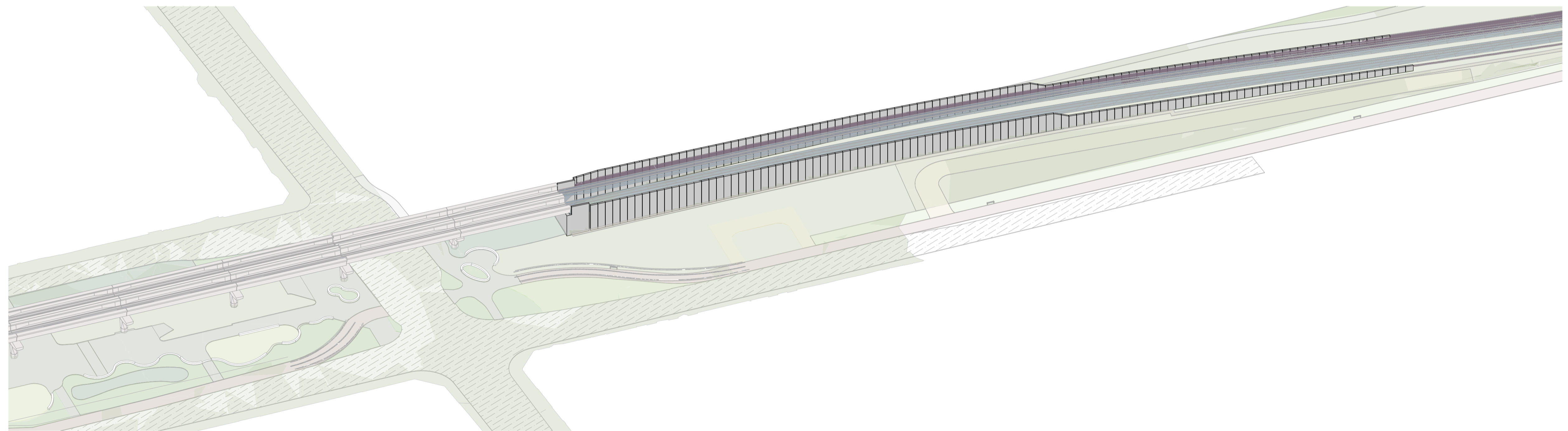


Appendix G - Retaining Walls and Abutment Plans (Plans, Elevations, Typical Sections)



Government of **Western Australia**
Public Transport Authority

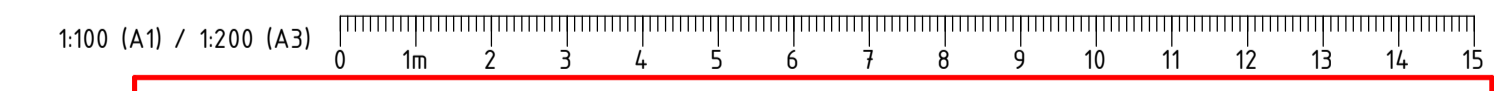
VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS



REFERENCE DESIGN

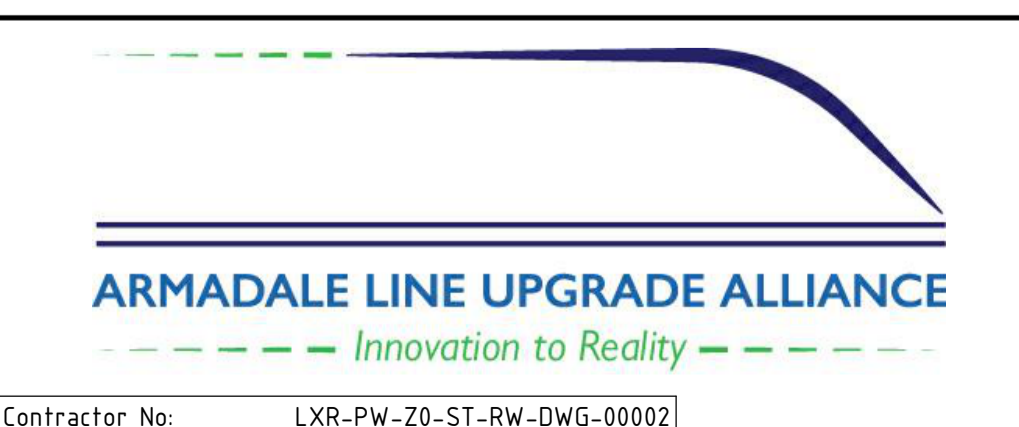
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DRAWING LIST			
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A01	LXR-PW-Z0-ST-RW-DWG-00002	04-S-72-0002	PROJECT WIDE - ABUTMENTS & RETAINING WALLS - DRAWING INDEX
A01	LXR-PW-Z0-ST-RW-DWG-00003	04-S-72-0003	PROJECT WIDE - ABUTMENTS & RETAINING WALLS - LOCALITY PLAN
A01	LXR-PW-Z0-ST-RW-DWG-00101	04-S-72-0007	PROJECT WIDE - ABUTMENTS & RETAINING WALLS - RETAINING WALL PLAN AND ELEVATION - SHEET 1
A01	LXR-PW-Z0-ST-RW-DWG-00102	04-S-72-0008	PROJECT WIDE - ABUTMENTS & RETAINING WALLS - RETAINING WALL PLAN AND ELEVATION - SHEET 2
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A01	LXR-PW-Z0-ST-RW-DWG-00114	04-S-72-0020	PROJECT WIDE - ABUTMENTS & RETAINING WALLS - RETAINING WALL PLAN AND ELEVATION - SHEET 14
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REFERENCE DESIGN	
	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES PROJECT WIDE - ABUTMENTS & RETAINING WALLS DRAWING INDEX	
PTA Drawing No: 04-S-72-0002	Rev: A01

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VALIDATION

SIGNATURE

DATE

DATE APPROVED

REFERENCES

SCALE

DATUM

HORIZONTAL: PCG20

VERTICAL: AHD71

DESIGNED M.SOUI

DRAWN G.WIN

CHECKED A.ISAAC

APPROVED W.SCHWARZ

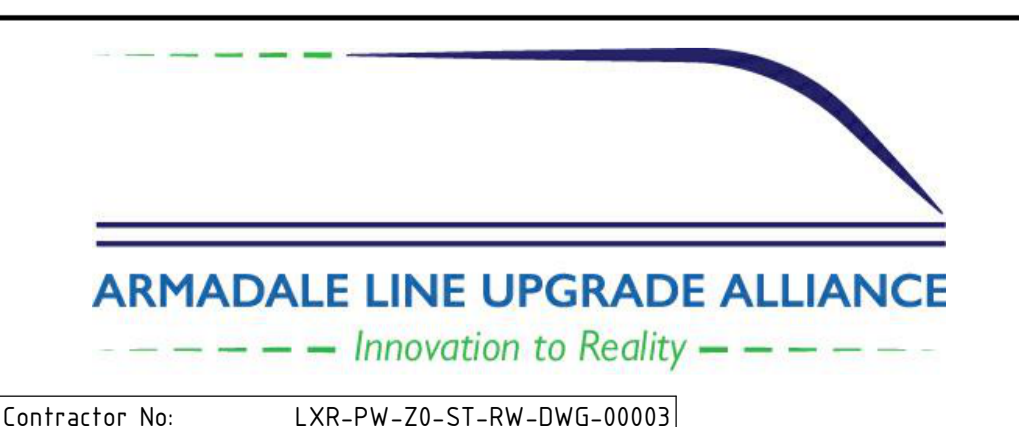
DATE 24.06.2022



LOCALITY PLAN
SCALE 1 : 5000

- LEGEND:**
- VIADUCT / PSP BRIDGE
 - EMBANKMENT
 - STATION
 - RAIL ALIGNMENT
 - RAIL RESERVE BOUNDARY

REV	DATE	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	DW	AI	WS
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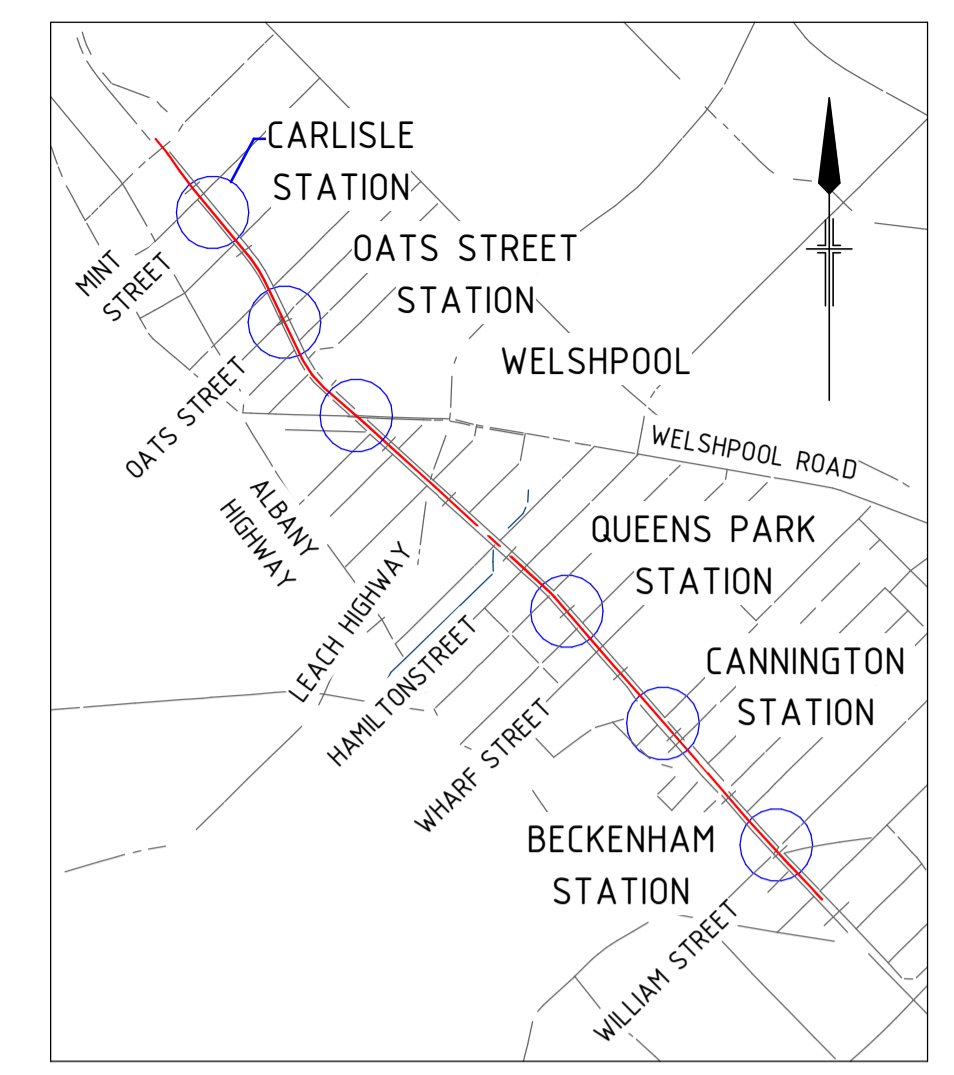
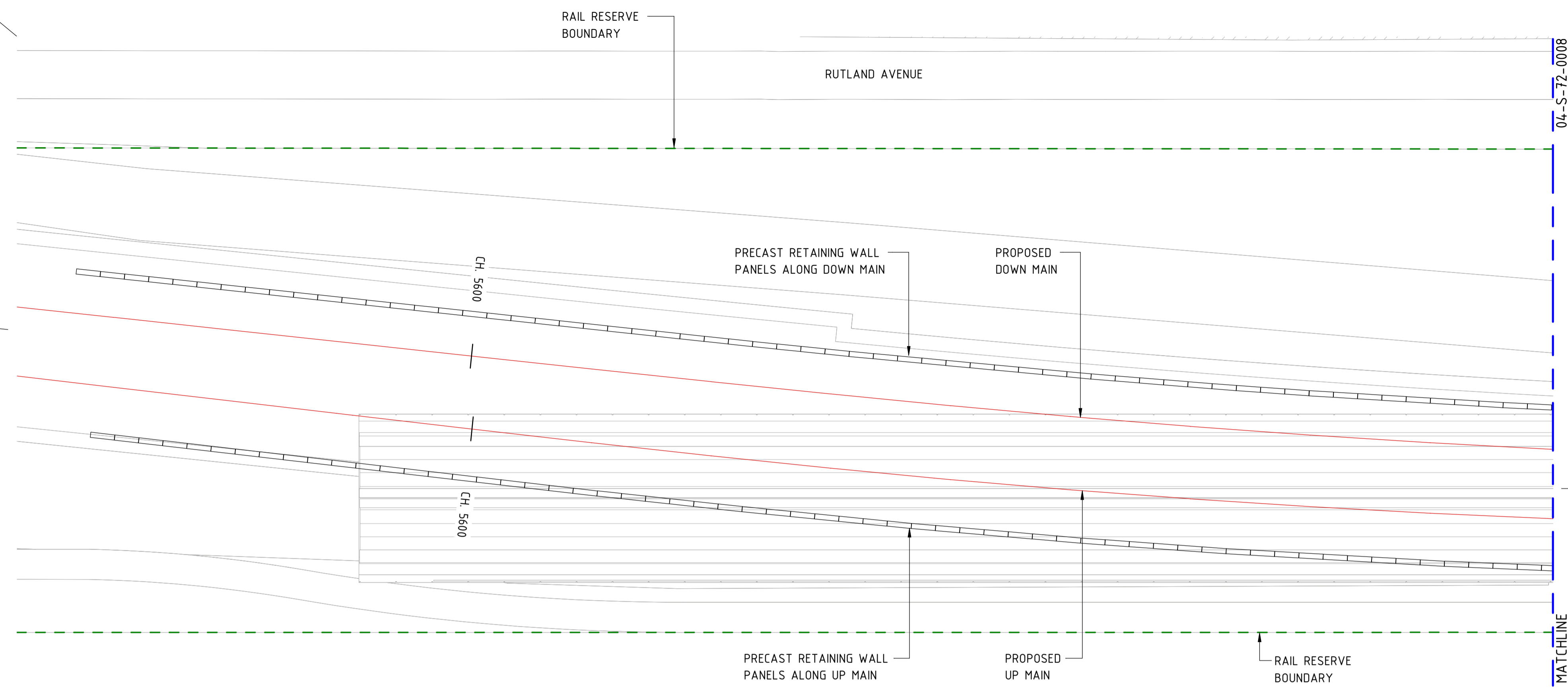


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REFERENCES
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DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED M.SOOI
DRAWN G.WIN
CHECKED A.ISAAC
APPROVED W.SCHWARZ
DATE 24.06.2022

REFERENCE DESIGN	
	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES PROJECT WIDE - ABUTMENTS & RETAINING WALLS LOCALITY PLAN PTA Drawing No: 04-S-72-0003	
Rev: A01	

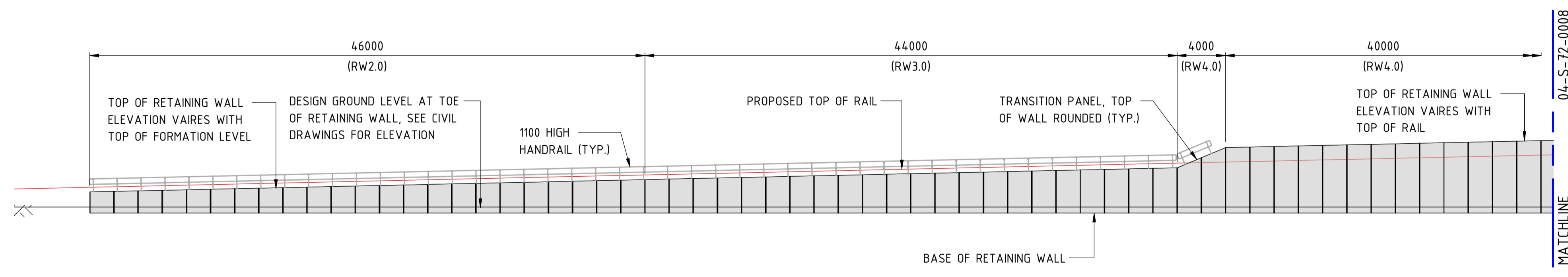


LOCALITY PLAN

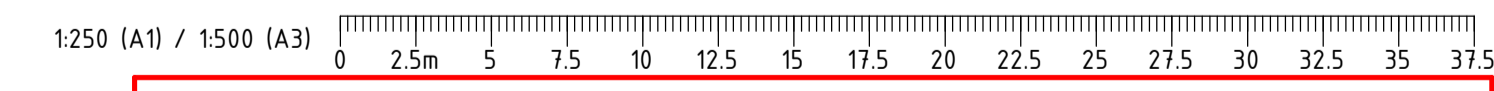
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1. NOISE WALL NOT SHOWN
 2. RIGID INCLUSION NOT SHOWN
 3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
 4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

- LEGEND:
- RETAINING WALL
 - VIADUCT / PSP BRIDGE
 - RAIL ALIGNMENT
 - RAIL RESERVE BOUNDARY

RETAINING WALL PLAN - MINT STREET TO OATS STREET
SCALE 1 : 250



RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (UP MAIN)
SCALE 1 : 250



REFERENCE DESIGN

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 1
PTA Drawing No: 04-S-72-0007 Rev: A01

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VALIDATION

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DATE

DATE APPROVED

REFERENCES

SCALE

As indicated

DATUM

HORIZONTAL: PCG20

VERTICAL: AHD71

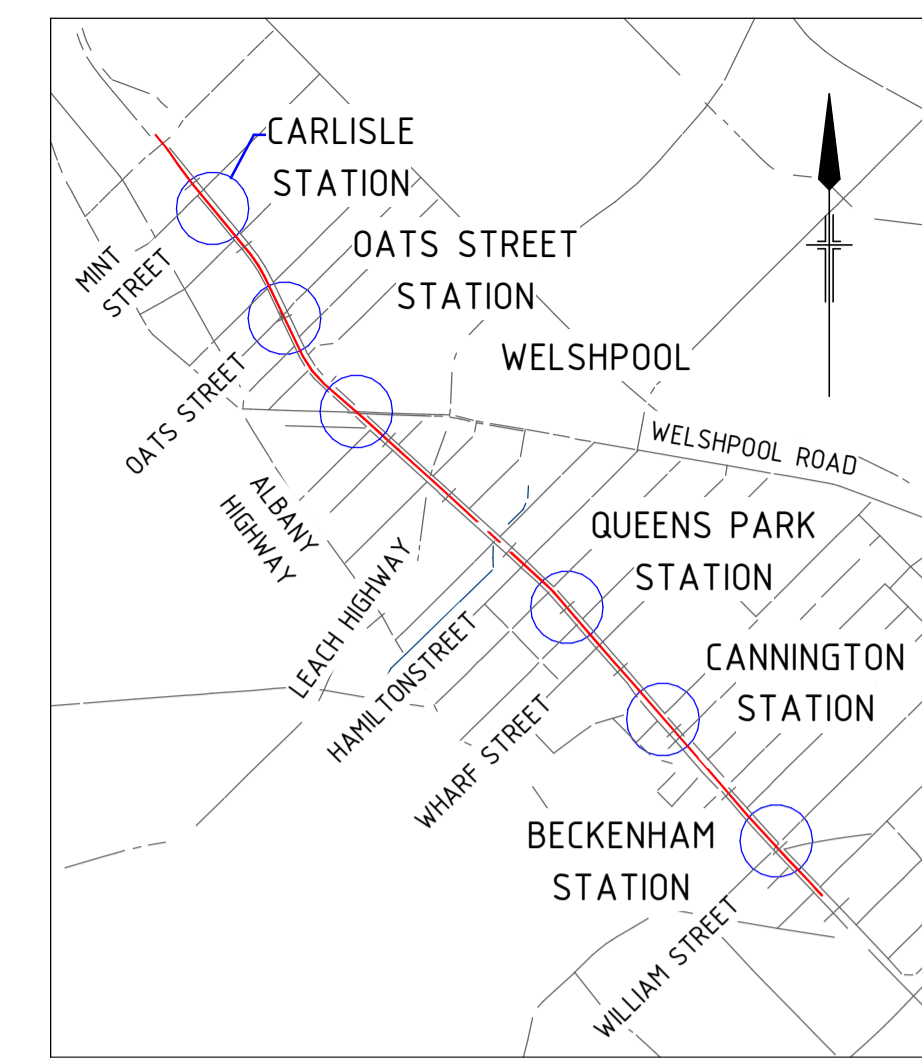
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DRAWN G.WIN

CHECKED A.ISAAC

APPROVED W.SCHWARZ

DATE 24.06.2022



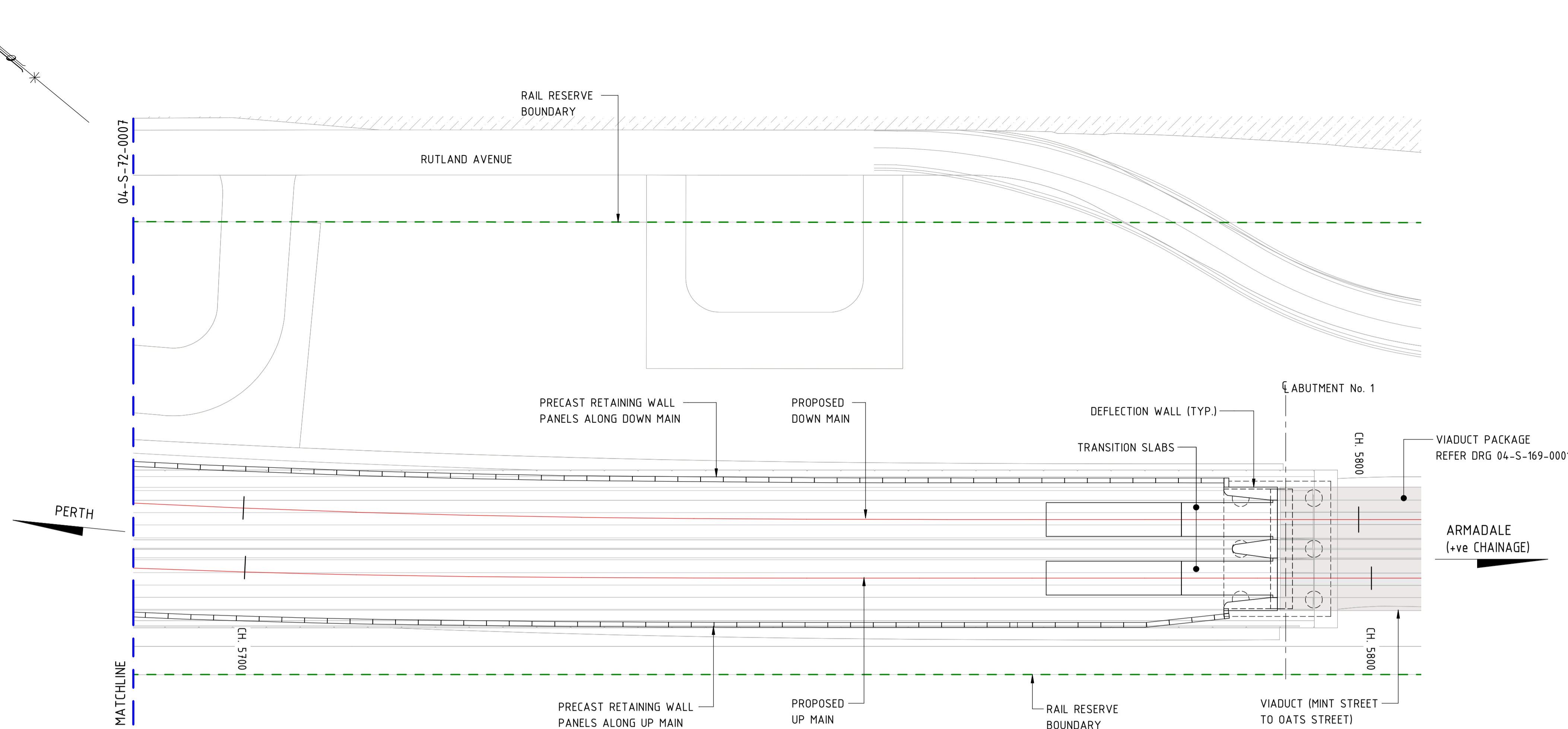
LOCALITY PLAN

NOTES:

1. NOISE WALL NOT SHOWN
2. RIGID INCLUSION NOT SHOWN
3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

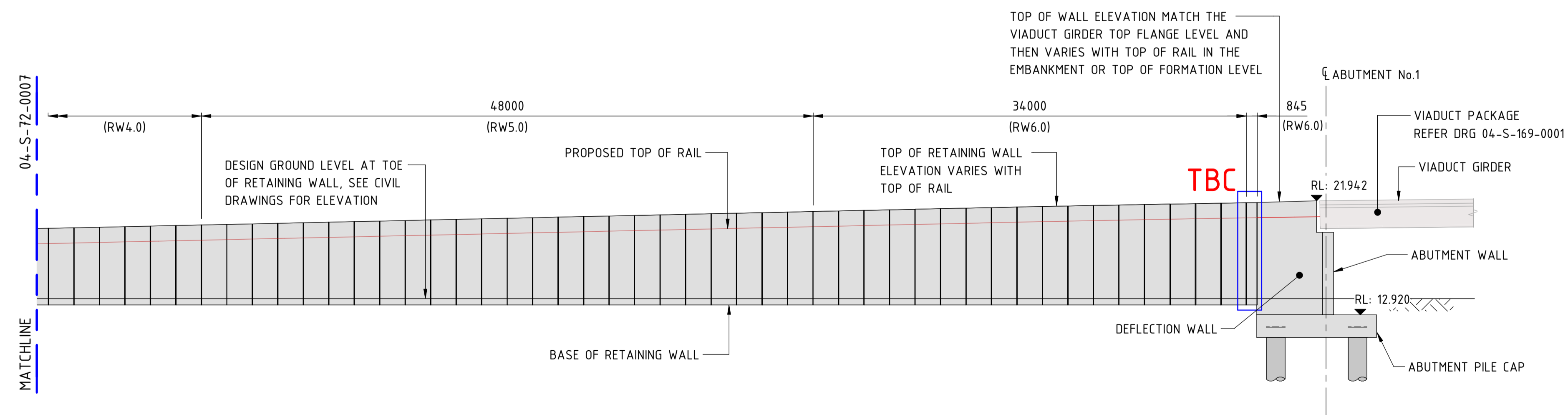
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- RETAINING WALL
- VIADUCT / PSP BRIDGE
- RAIL ALIGNMENT
- RAIL RESERVE BOUNDARY



RETAINING WALL PLAN - MINT STREET TO OATS STREET

SCALE 1 : 250



RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (UP MAIN)

SCALE 1 : 250



REFERENCE DESIGN

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Contractor No: LXR-PW-Z0-ST-RW-DWG-00102

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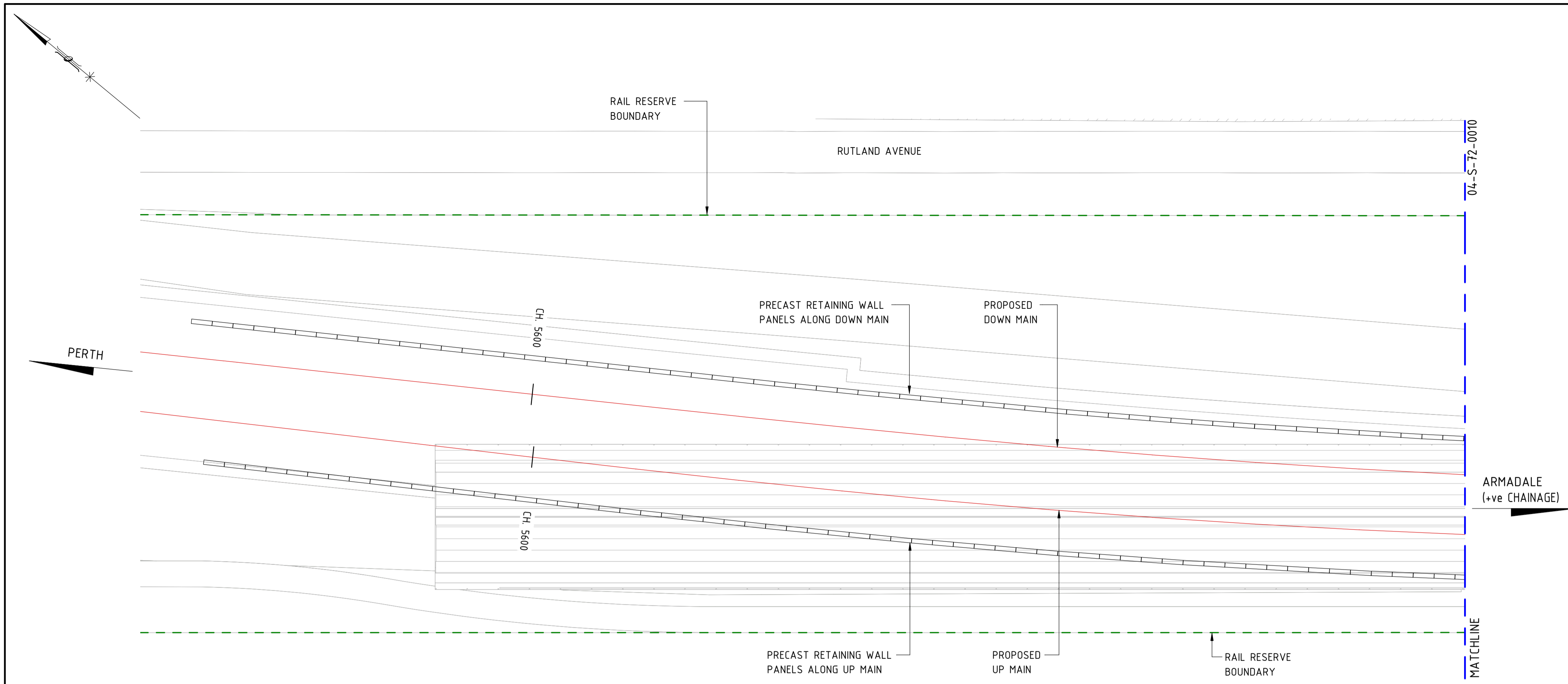
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As indicated
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HORIZONTAL: PCG20
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DESIGNED M.SOOI
DRAWN G.WIN
CHECKED A.ISAAC
APPROVED W.SCHWARZ
DATE 24.06.2022

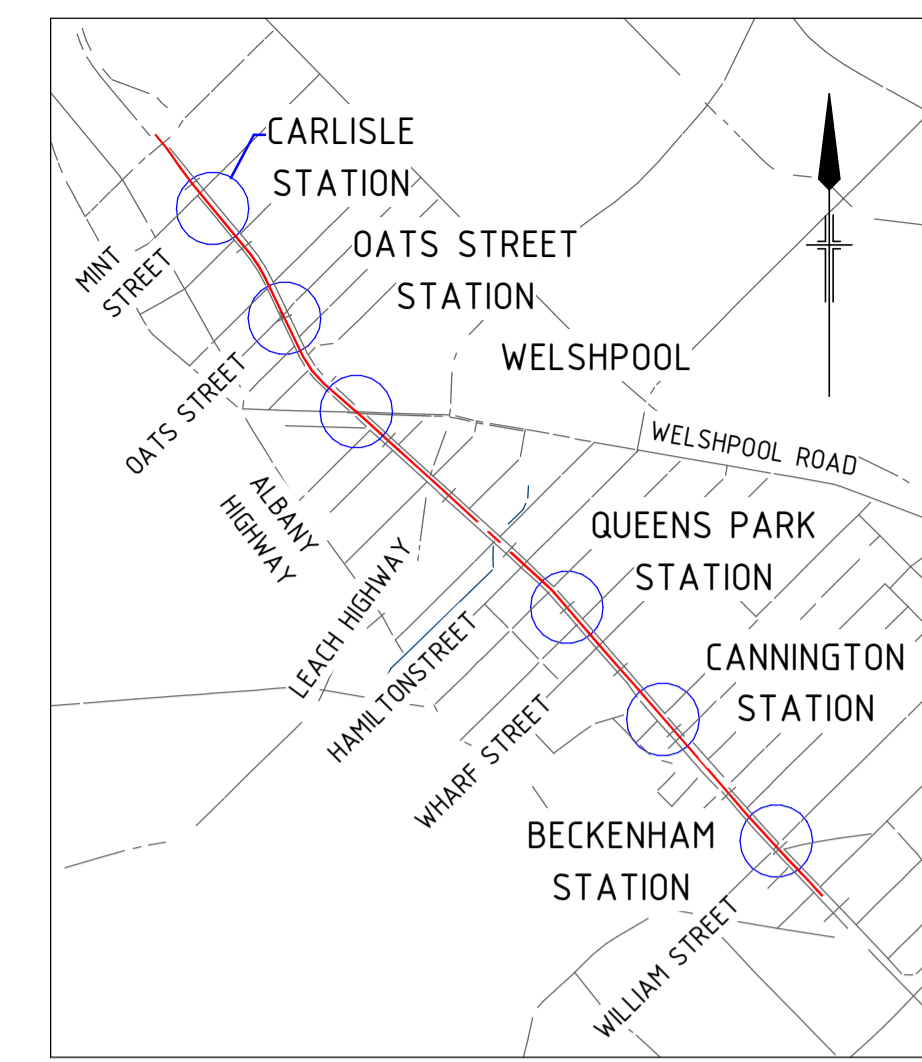
Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 2
PTA Drawing No: 04-S-72-0008 Rev: A01



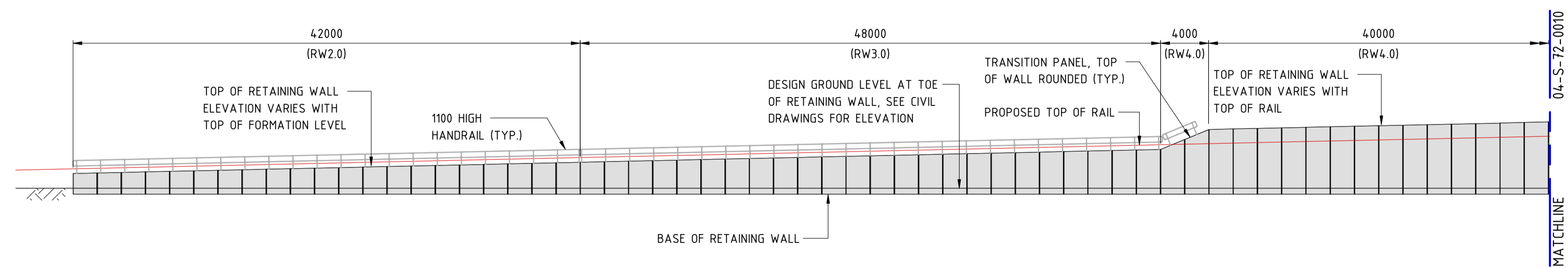
RETAINING WALL PLAN - MINT STREET TO OATS STREET
SCALE 1 : 250



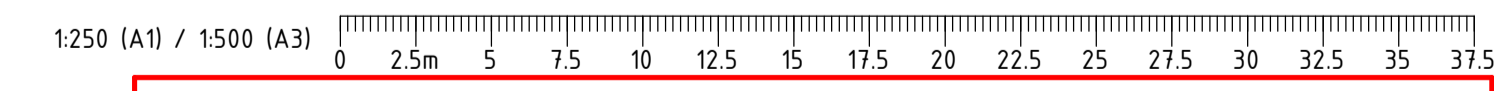
LOCALITY PLAN

- NOTES:**
1. NOISE WALL NOT SHOWN
 2. RIGID INCLUSION NOT SHOWN
 3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
 4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

- LEGEND:**
- RETAINING WALL
 - VIADUCT / PSP BRIDGE
 - RAIL ALIGNMENT
 - RAIL RESERVE BOUNDARY



RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (DOWN MAIN)
SCALE 1 : 250



REFERENCE DESIGN

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 3
PTA Drawing No: **04-S-72-0009** | Rev: **A01**

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Contractor No: LXR-PW-Z0-ST-RW-DWG-00103

VALIDATION

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DATE

DATE APPROVED

REFERENCES

SCALE

As indicated

DATUM

HORIZONTAL: PCG20

VERTICAL: AHD71

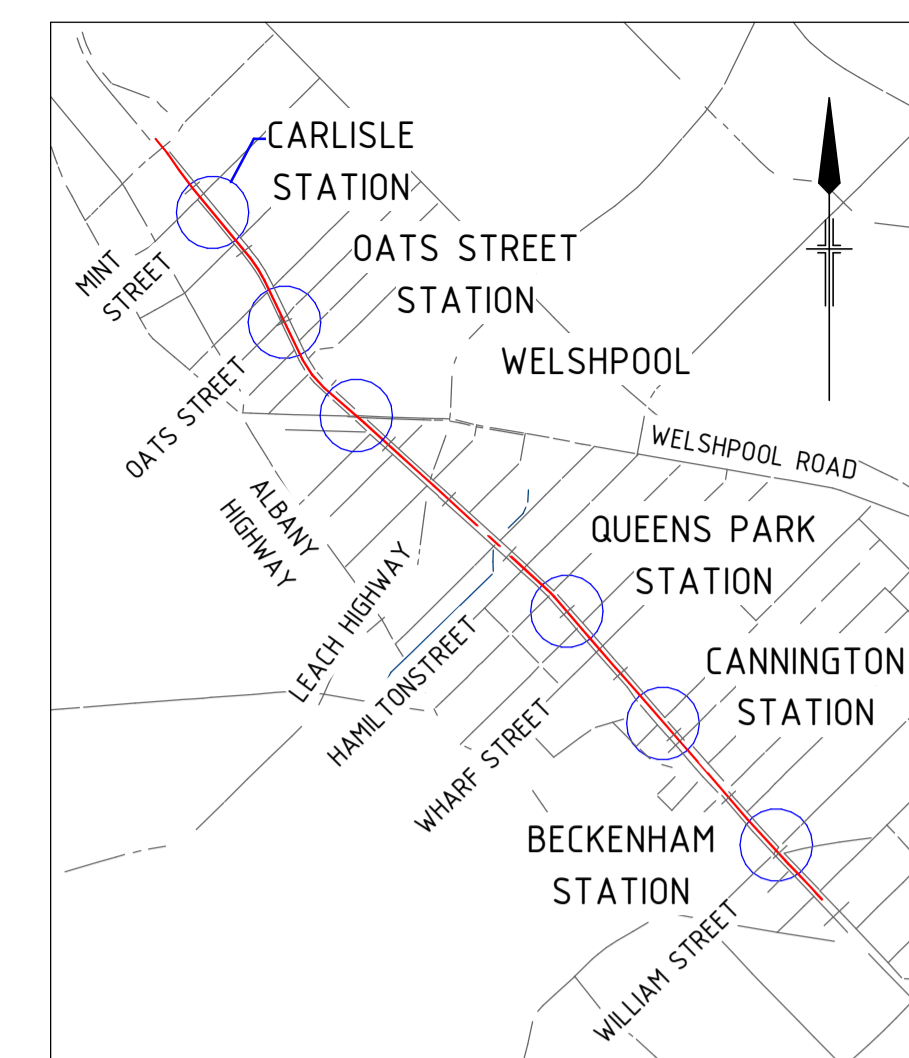
DESIGNED M.SOOI

DRAWN G.WIN

CHECKED A.ISAAC

APPROVED W.SCHWARZ

DATE 24.06.2022



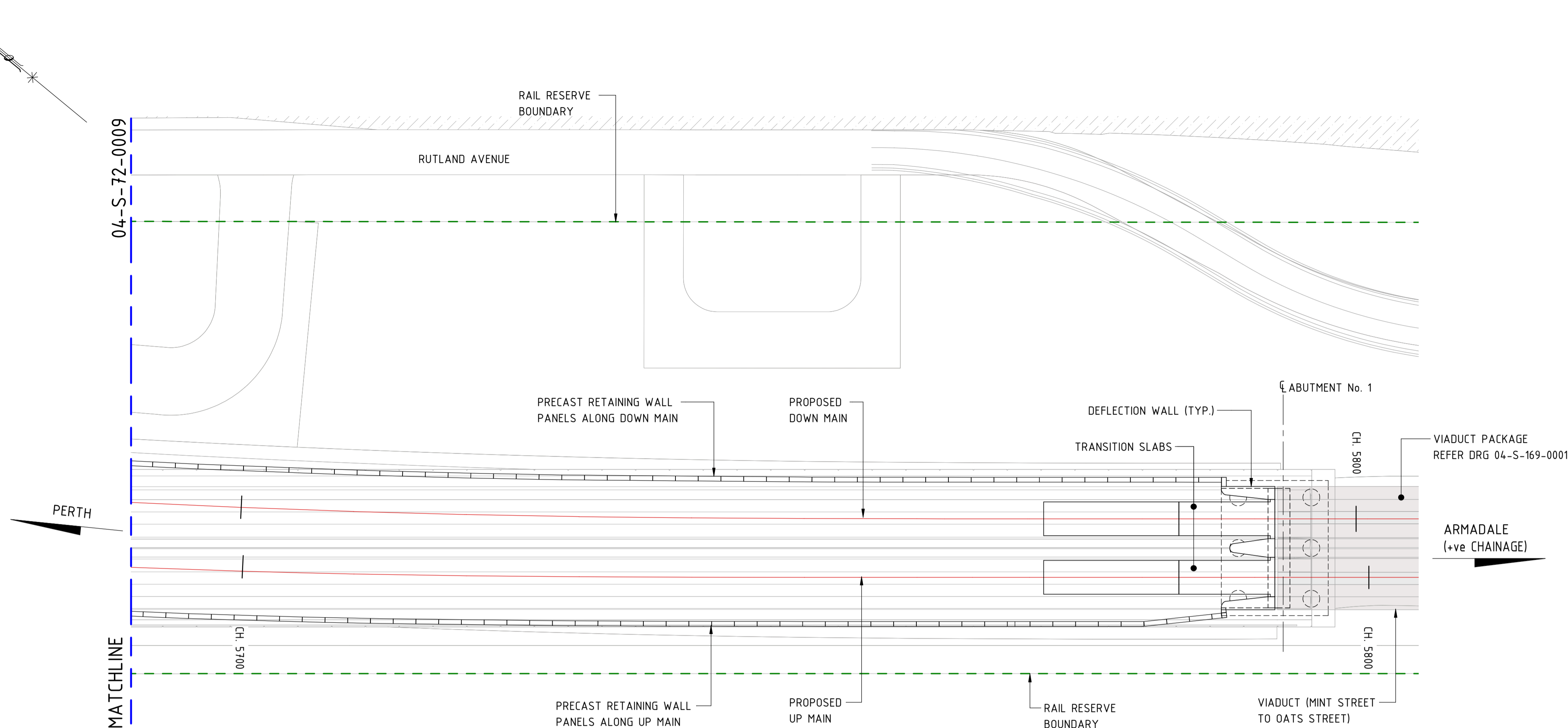
LOCALITY PLAN

NOTES:

1. NOISE WALL NOT SHOWN
2. RIGID INCLUSION NOT SHOWN
3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

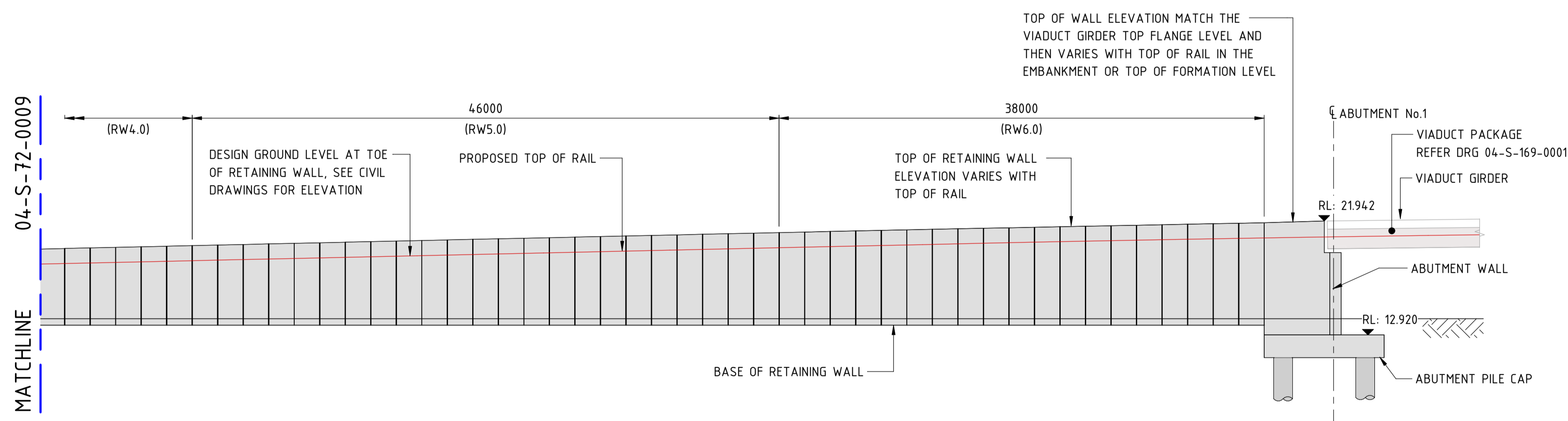
LEGEND:

- RETAINING WALL
- VIADUCT / PSP BRIDGE
- RAIL ALIGNMENT
- RAIL RESERVE BOUNDARY



RETAINING WALL PLAN - MINT STREET TO OATS STREET

SCALE 1 : 250



RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (DOWN MAIN)

SCALE 1 : 250



REFERENCE DESIGN

REV	DATE	AMENDMENT	MS	GW	AI	WS
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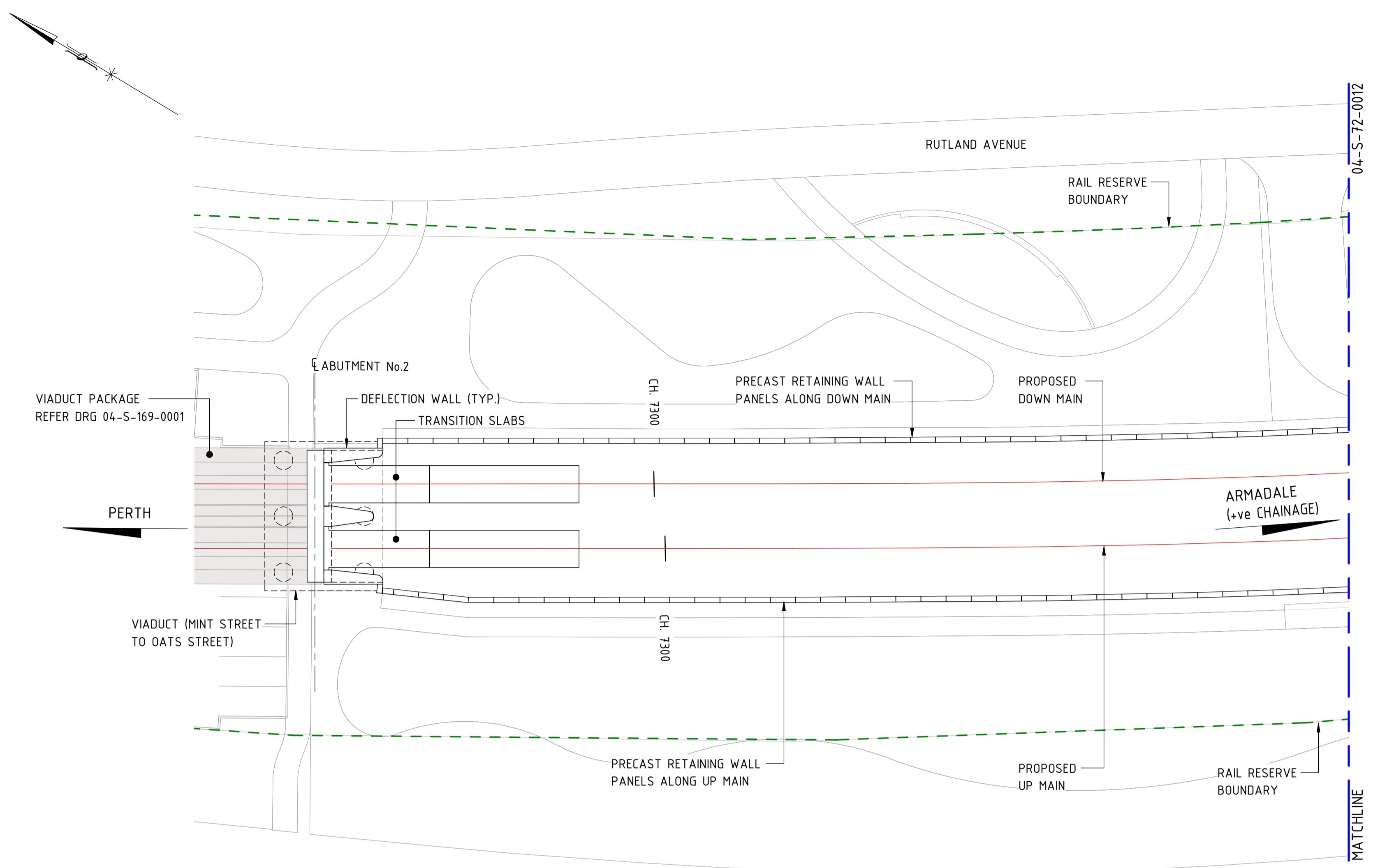
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HORIZONTAL: PCG20
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DESIGNED M.SOOI
DRAWN G.WIN
CHECKED A.ISAAC
APPROVED W.SCHWARZ
DATE 24.06.2022

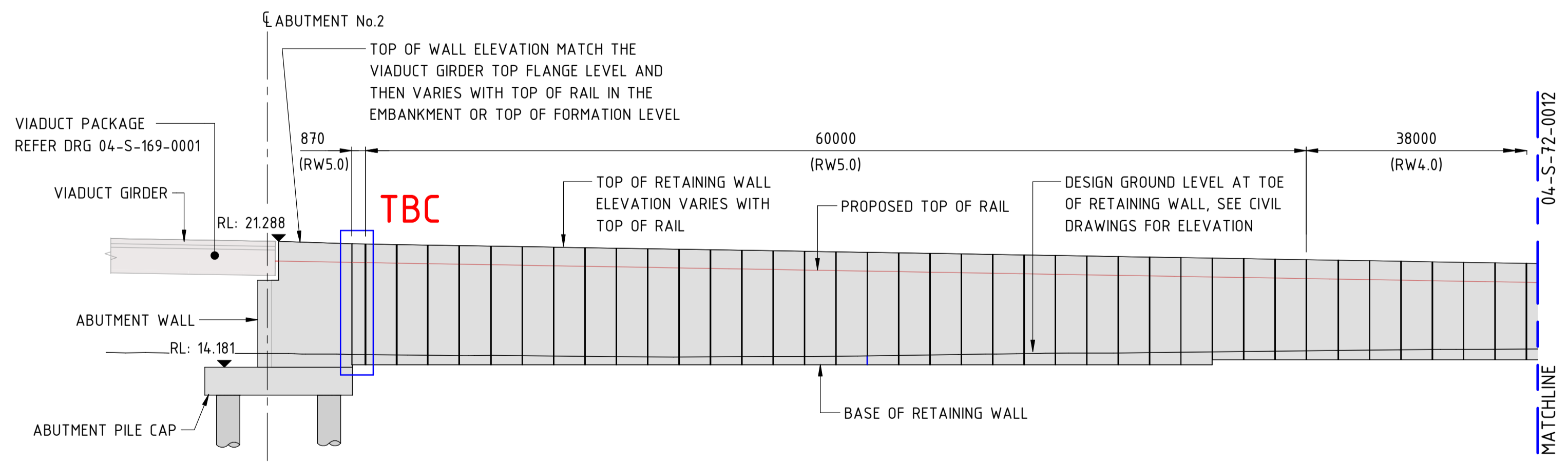
Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

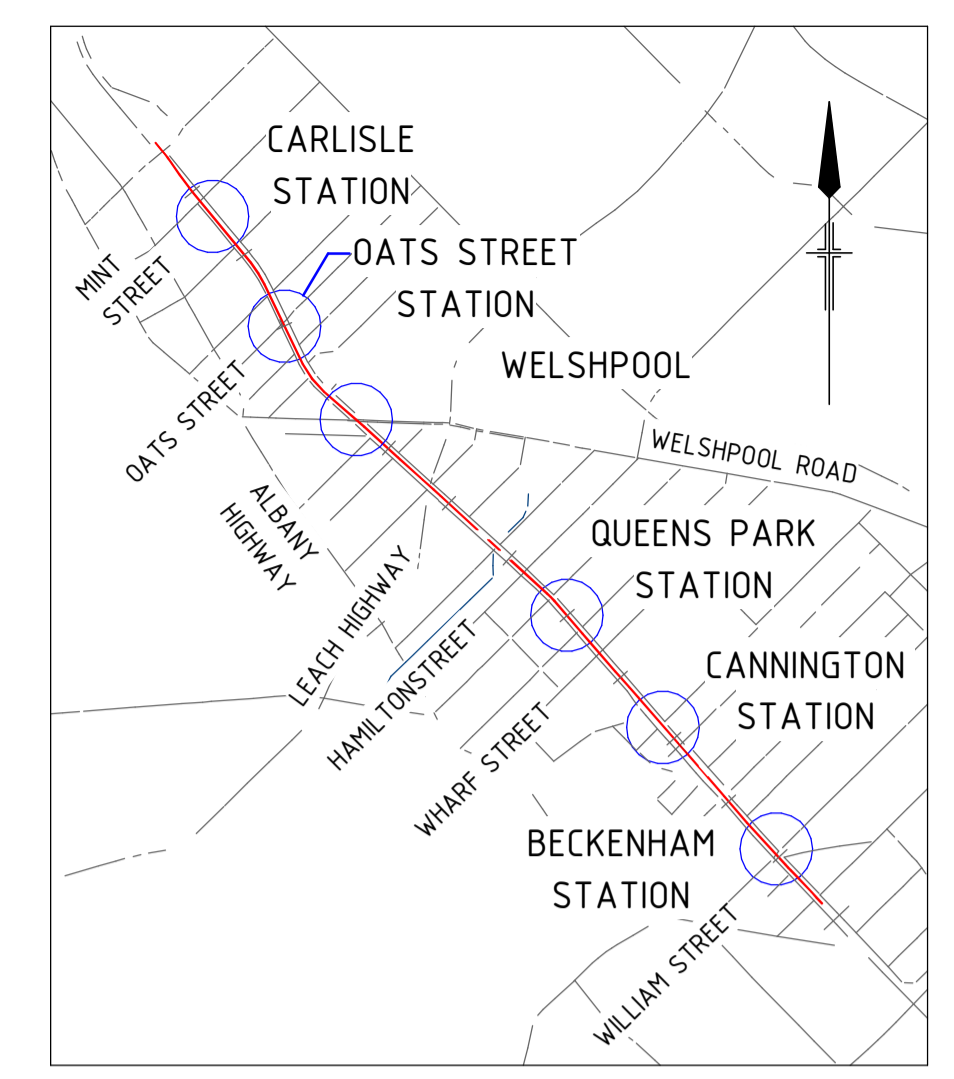
ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 4
PTA Drawing No: 04-S-72-0010 | Rev: A01



RETAINING WALL PLAN - MINT STREET TO OATS STREET
SCALE 1 : 250



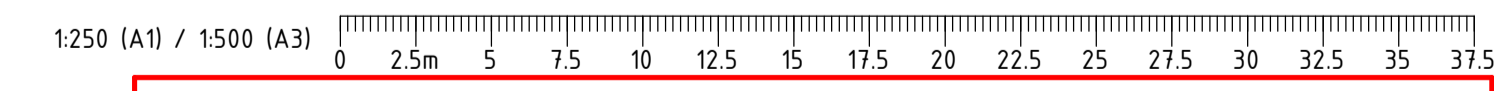
RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (UP MAIN)
SCALE 1 : 250



LOCALITY PLAN

- NOTES:**
1. NOISE WALL NOT SHOWN
 2. RIGID INCLUSION NOT SHOWN
 3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
 4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

- LEGEND:**
- RETAINING WALL
 - VIADUCT / PSP BRIDGE
 - RAIL ALIGNMENT
 - RAIL RESERVE BOUNDARY



REFERENCE DESIGN

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 5
PTA Drawing No: **04-S-72-0011** | Rev: **A01**

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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AT ORIGINAL PLOT SIZE						

ORIG SIZE: A1

Scale: 0 10 20 30 40 50 100mm

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ARMADALE LINE UPGRADE ALLIANCE
Innovation to Reality

Contractor No: LXR-PW-Z0-ST-RW-DWG-00105

VALIDATION

SIGNATURE

DATE

DATE APPROVED

REFERENCES

SCALE

As indicated

DATUM

HORIZONTAL: PCG20

VERTICAL: AHD71

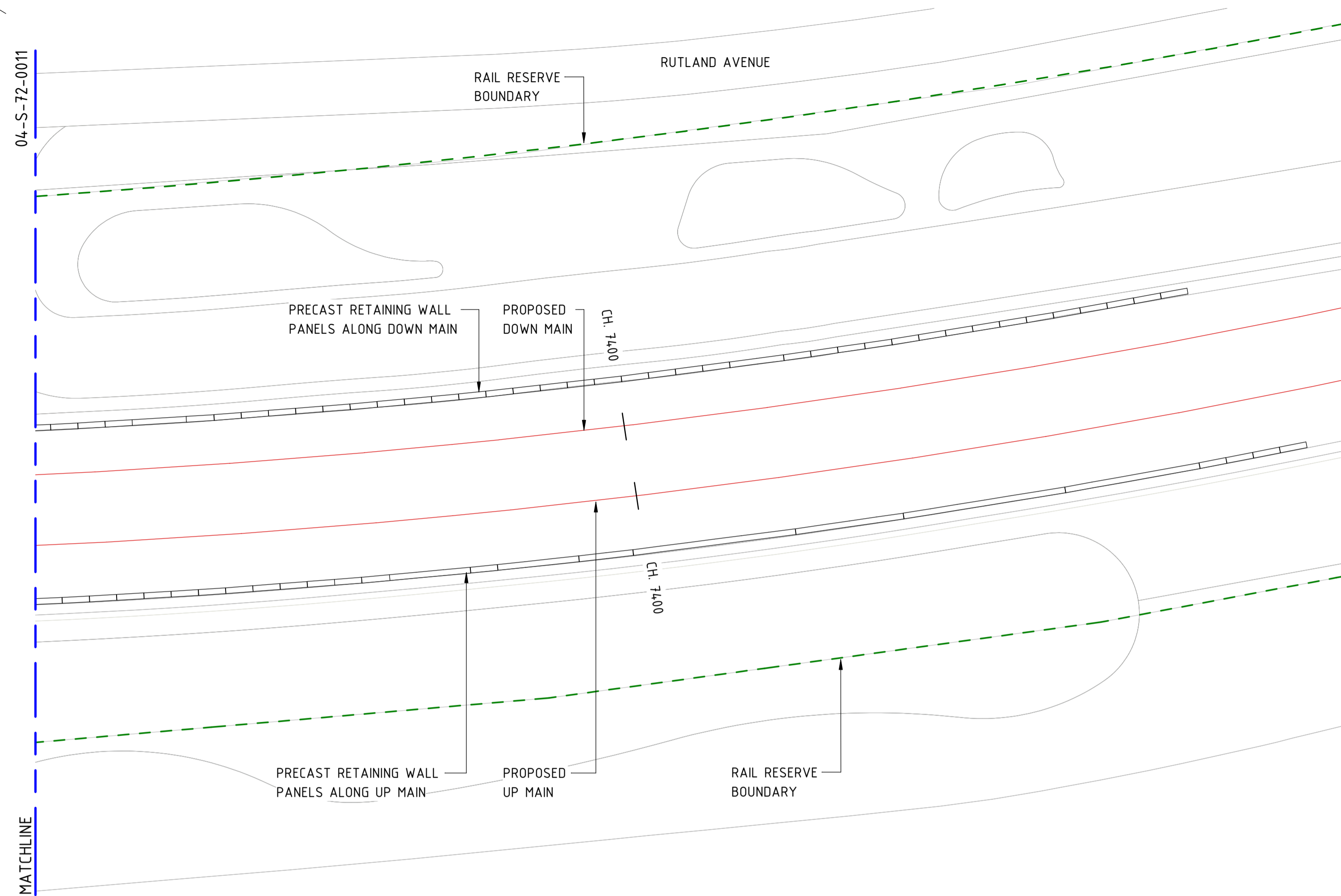
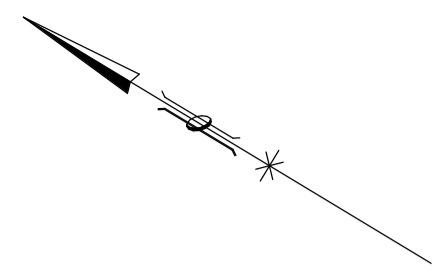
DESIGNED: M.SOOI

DRAWN: G.WIN

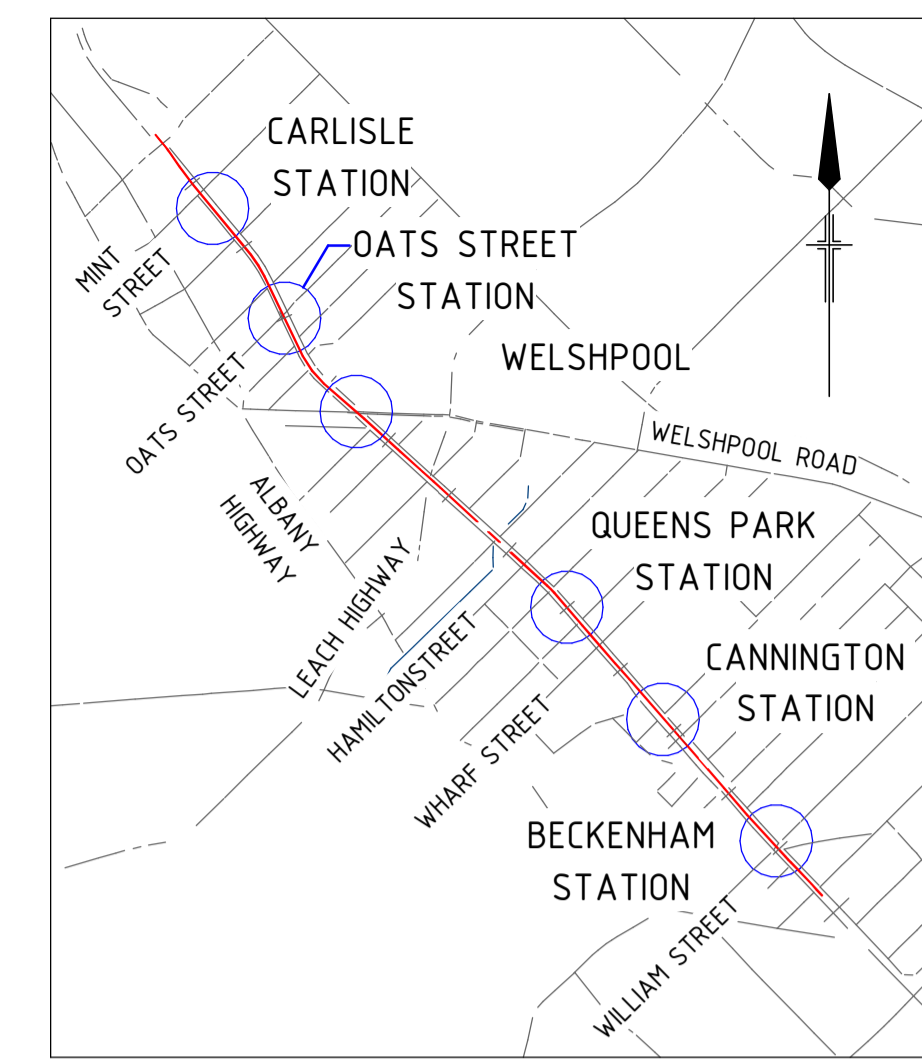
CHECKED: A.ISAAC

APPROVED: W.SCHWARZ

DATE: 24.06.2022



ARMADALE
(+ve CHAINAGE)



LOCALITY PLAN

NOTES:

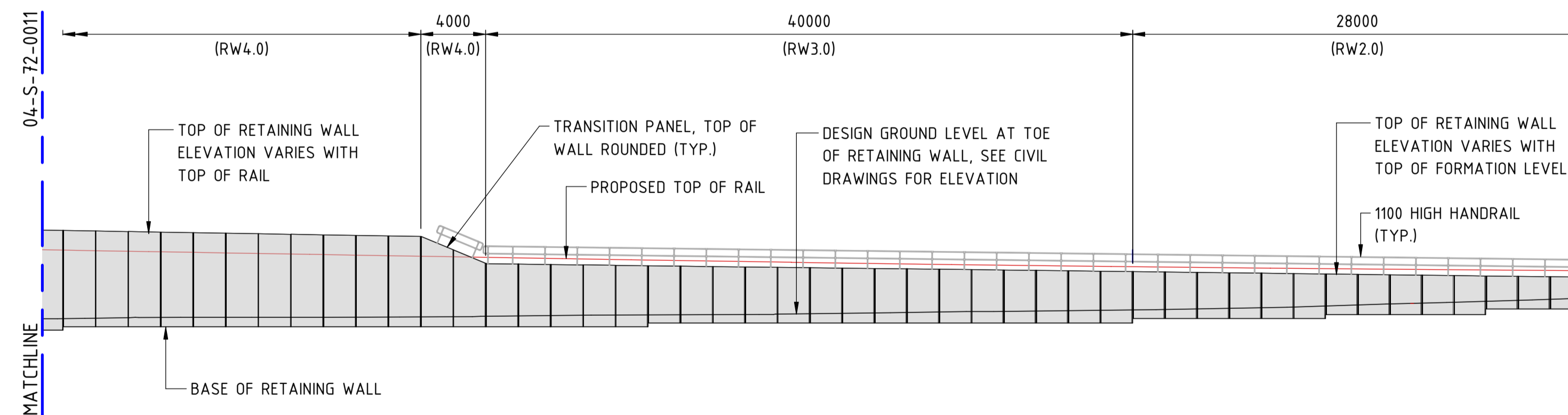
1. NOISE WALL NOT SHOWN
2. RIGID INCLUSION NOT SHOWN
3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

LEGEND:

- RETAINING WALL
- VIADUCT / PSP BRIDGE
- RAIL ALIGNMENT
- RAIL RESERVE BOUNDARY

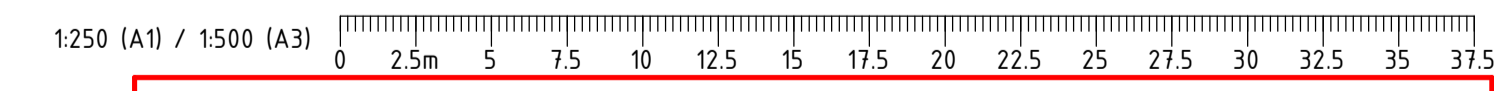
RETAINING WALL PLAN - MINT STREET TO OATS STREET

SCALE 1 : 250



RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (UP MAIN)

SCALE 1 : 250



REFERENCE DESIGN

A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	DW	AI	WS			
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP			
ORIG SIZE	AT ORIGINAL PLOT SIZE								
A1			<small>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.</small>						

Contractor No: LXR-PW-Z0-ST-RW-DWG-00106

VALIDATION

SIGNATURE

DATE

DATE APPROVED

REFERENCES

SCALE

As indicated

DATUM

HORIZONTAL: PCG20

VERTICAL: AHD71

DESIGNED M.SOUI

DRAWN G.WIN

CHECKED A.ISAAC

APPROVED W.SCHWARZ

DATE 24.06.2022

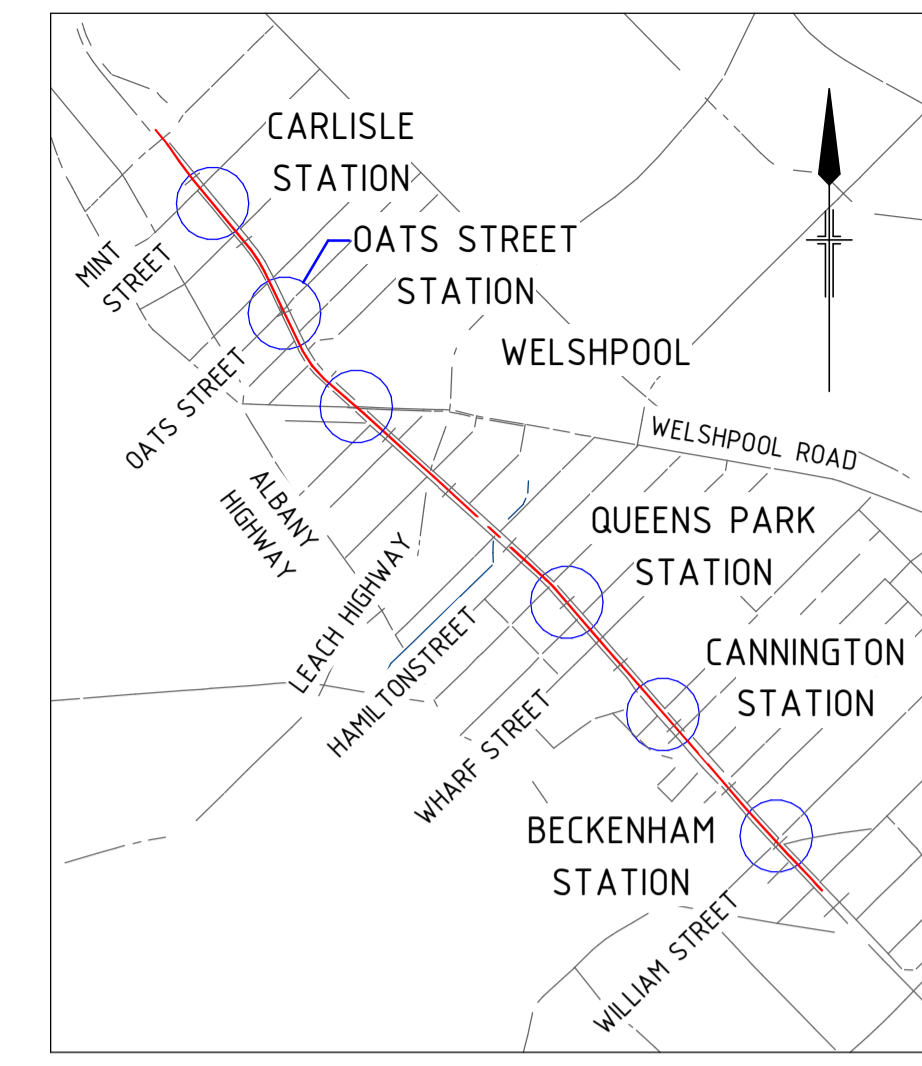
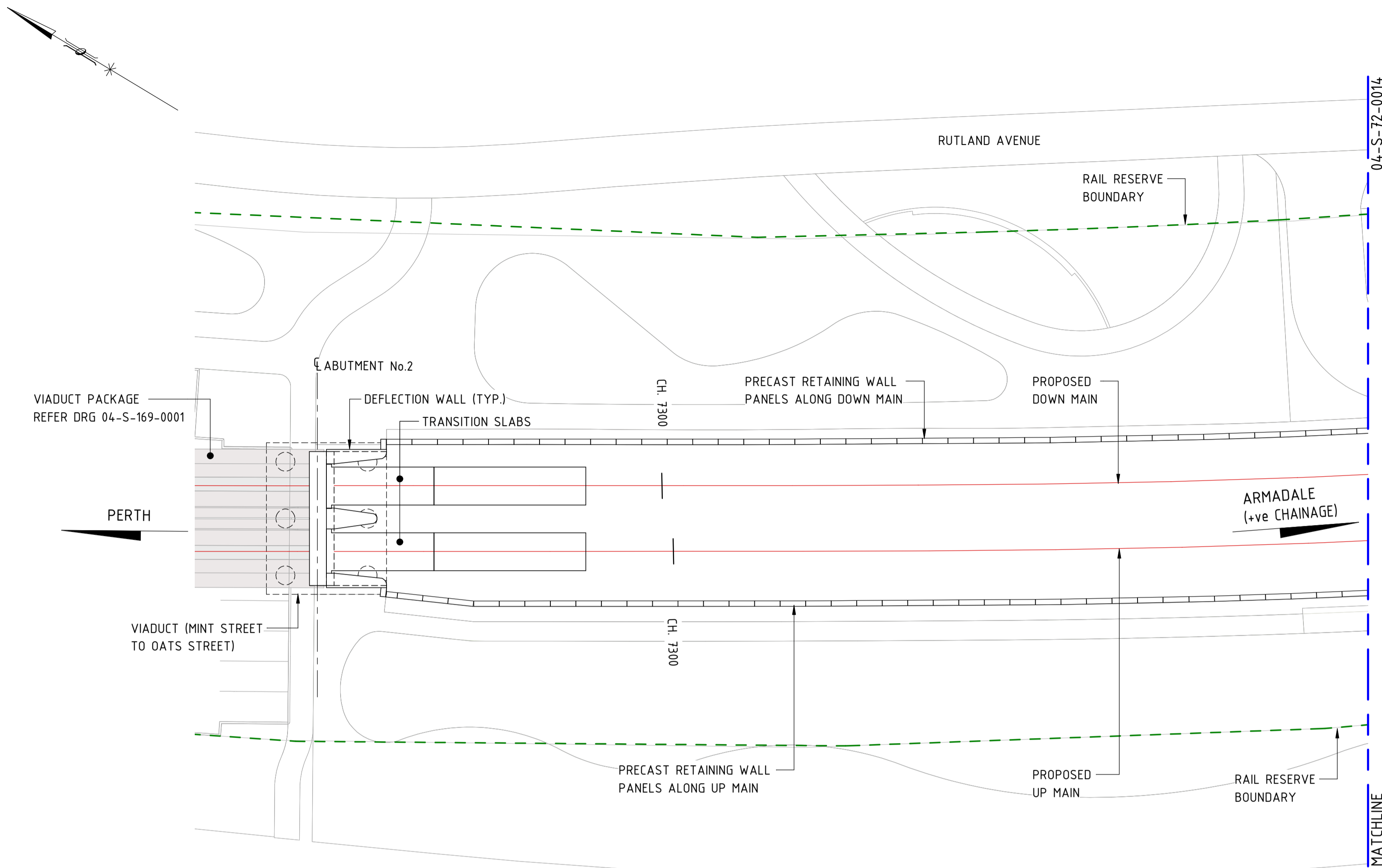
VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES

PROJECT WIDE - ABUTMENTS & RETAINING WALLS

RETAINING WALL PLAN AND ELEVATION - SHEET 6

PTA Drawing No: **04-S-72-0012** Rev: **A01**

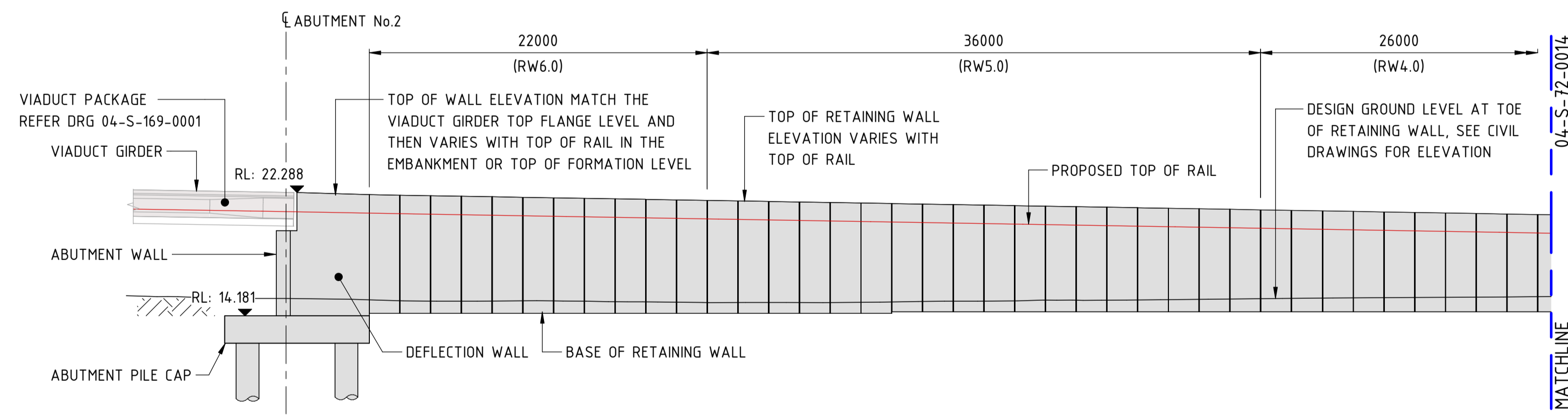


LOCALITY PLAN

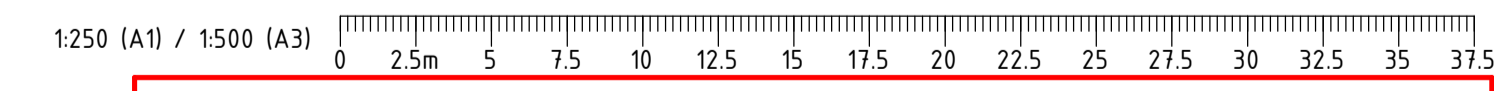
- NOTES:
1. NOISE WALL NOT SHOWN
 2. RIGID INCLUSION NOT SHOWN
 3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
 4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

- LEGEND:
- RETAINING WALL
 - VIADUCT / PSP BRIDGE
 - RAIL ALIGNMENT
 - RAIL RESERVE BOUNDARY

RETAINING WALL PLAN - MINT STREET TO OATS STREET
SCALE 1 : 250



RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (DOWN MAIN)
SCALE 1 : 250



REFERENCE DESIGN

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 7
PTA Drawing No: 04-S-72-0013 Rev: A01

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
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ARMADALE LINE UPGRADE ALLIANCE

Innovation to Reality

Contractor No: LXR-PW-Z0-ST-RW-DWG-00107

VALIDATION

SIGNATURE

DATE

DATE APPROVED

REFERENCES

SCALE

As indicated

DATUM

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VERTICAL: AHD71

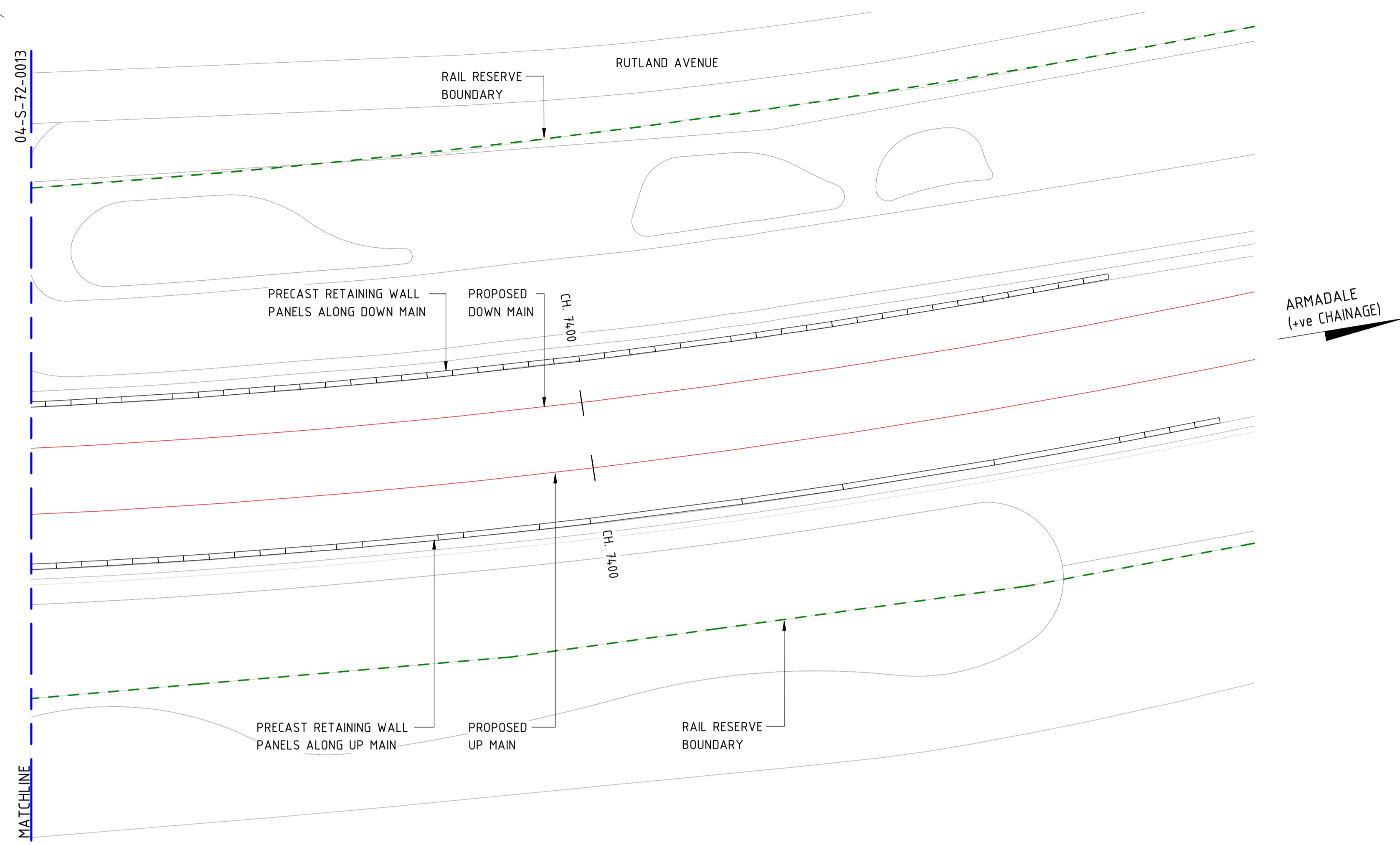
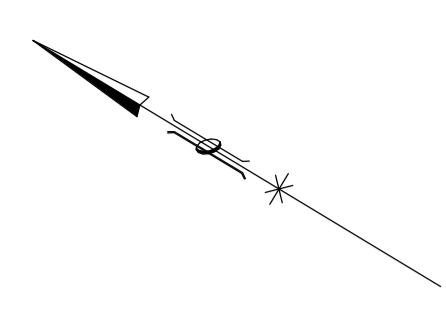
DESIGNED: M.SOOI

DRAWN: G.WIN

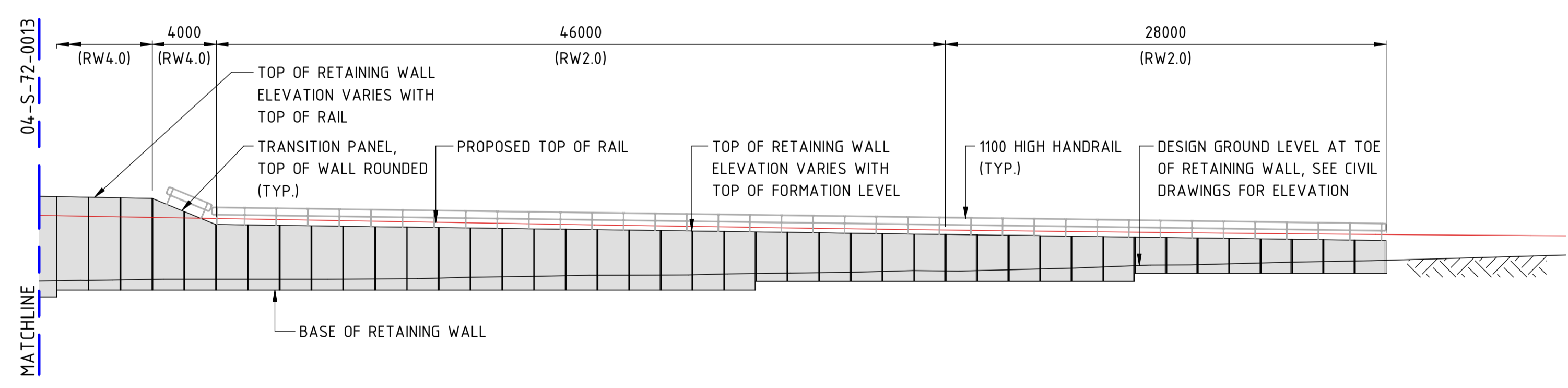
CHECKED: A.ISAAC

APPROVED: W.SCHWARZ

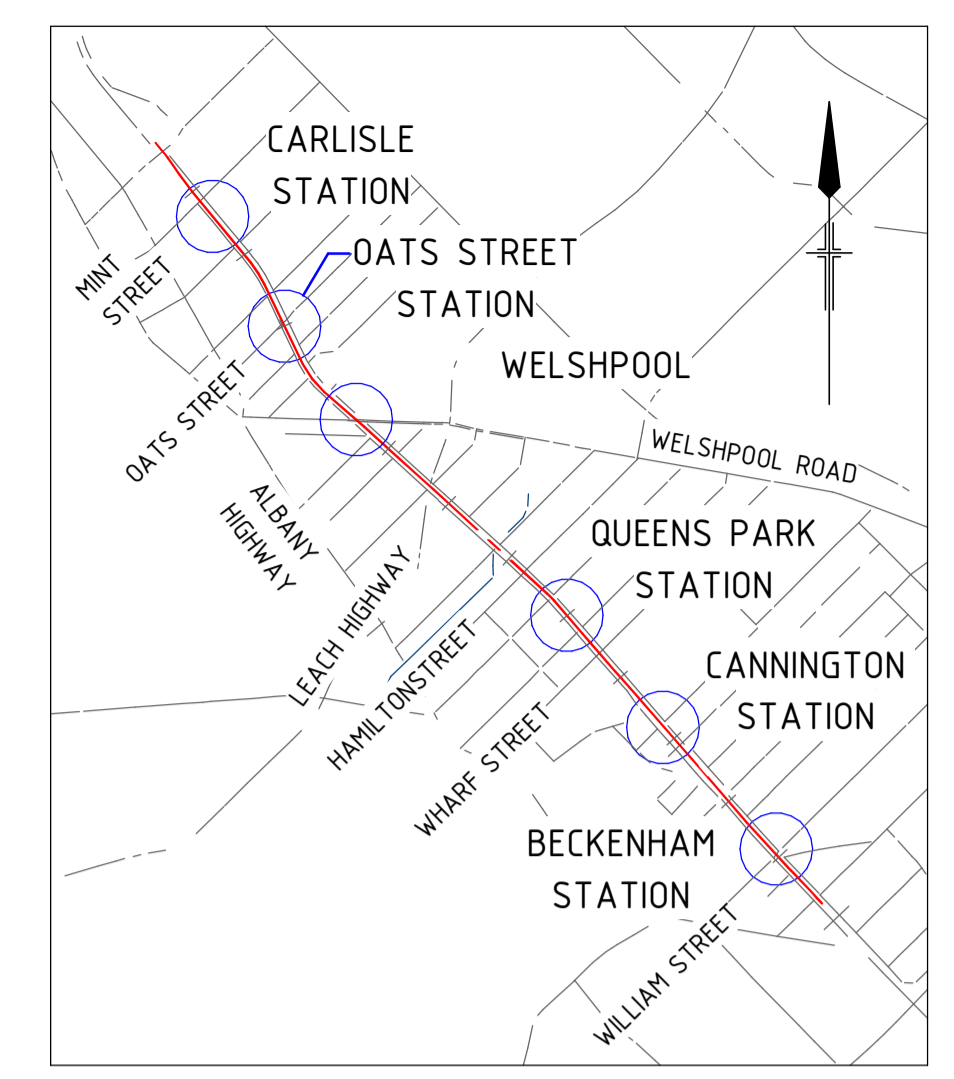
DATE: 24.06.2022



RETAINING WALL PLAN - MINT STREET TO OATS STREET
SCALE 1 : 250



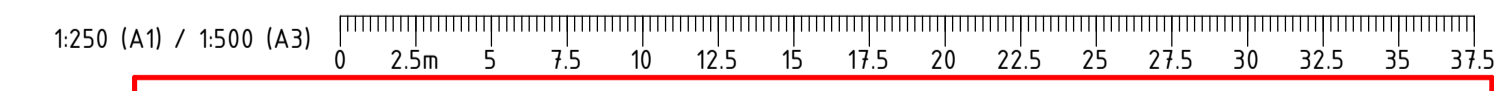
RETAINING WALL ELEVATION - MINT STREET TO OATS STREET (DOWN MAIN)
SCALE 1 : 250



LOCALITY PLAN

- NOTES:**
1. NOISE WALL NOT SHOWN
 2. RIGID INCLUSION NOT SHOWN
 3. WALL FLARE OUT FOR SIGNAL ZONE NOT SHOWN
 4. TOP OF WALL ELEVATIONS SHALL BE DETERMINED FROM THE TOP OF RAIL ELEVATION

- LEGEND:**
- RETAINING WALL
 - VIADUCT / PSP BRIDGE
 - RAIL ALIGNMENT
 - RAIL RESERVE BOUNDARY



REFERENCE DESIGN

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL PLAN AND ELEVATION - SHEET 8
PTA Drawing No: 04-S-72-0014 | Rev: A01

REV	DATE	AMENDMENT	MS	GW	AI	WS
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REV	DATE	AMENDMENT	DSN	DRN	CHK	APP

ORIG SIZE: A1
AT ORIGINAL PLOT SIZE

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Contractor No: LXR-PW-Z0-ST-RW-DWG-00108

VALIDATION

SIGNATURE

DATE

DATE APPROVED

REFERENCES

SCALE

As indicated

DATUM

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VERTICAL: AHD71

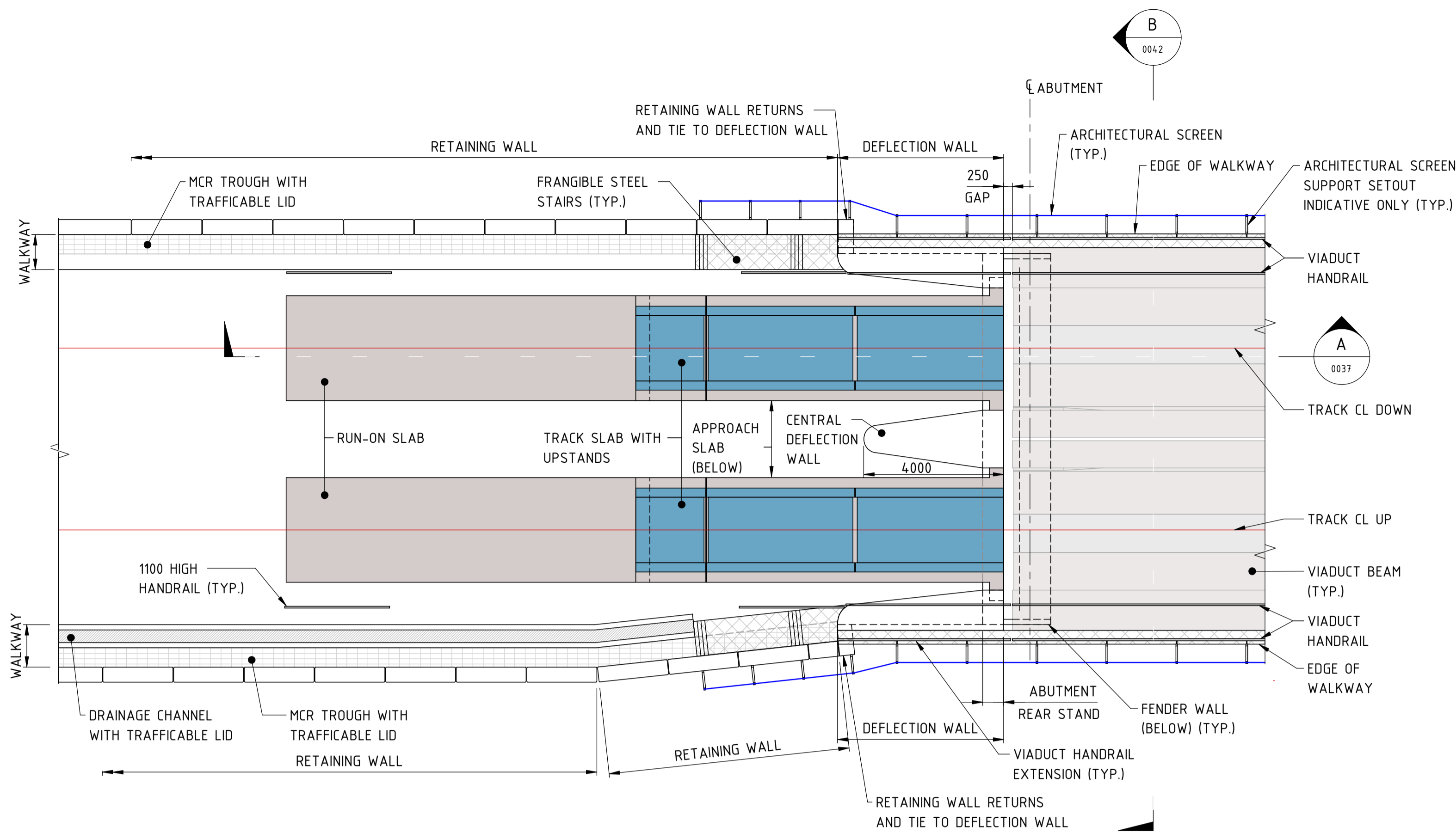
DESIGNED M.SOOI

DRAWN G.WIN

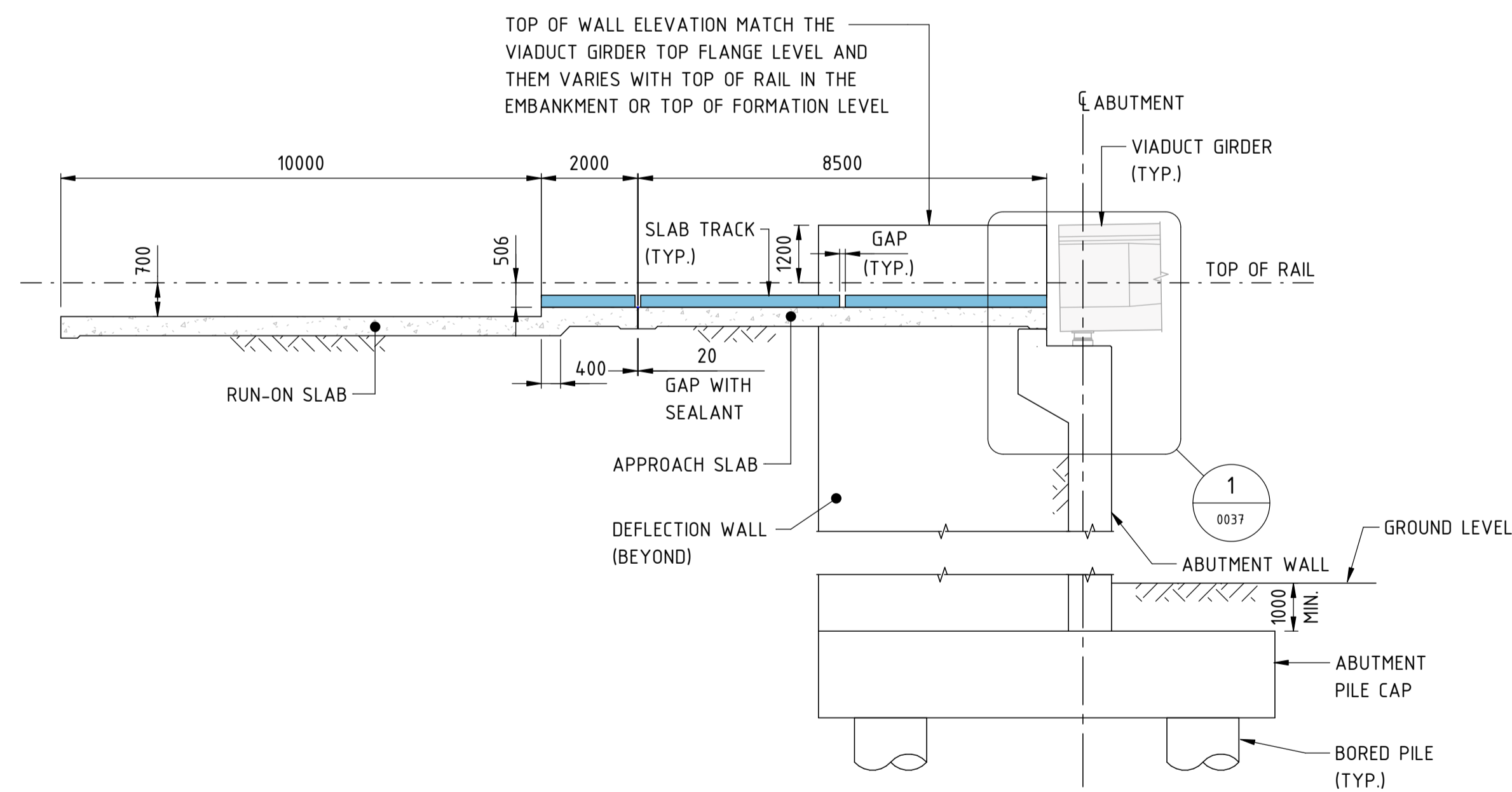
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APPROVED W.SCHWARZ

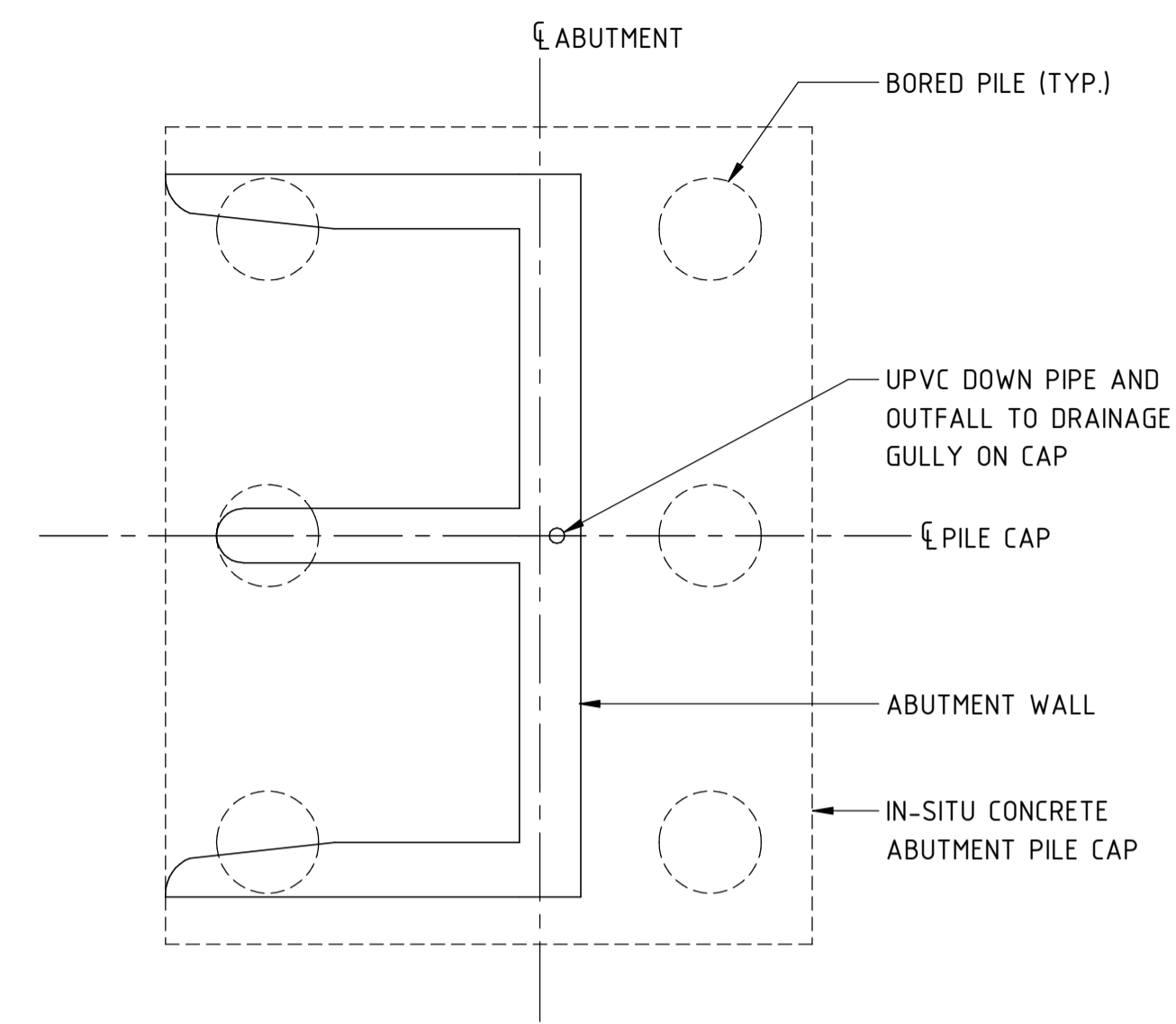
DATE 24.06.2022



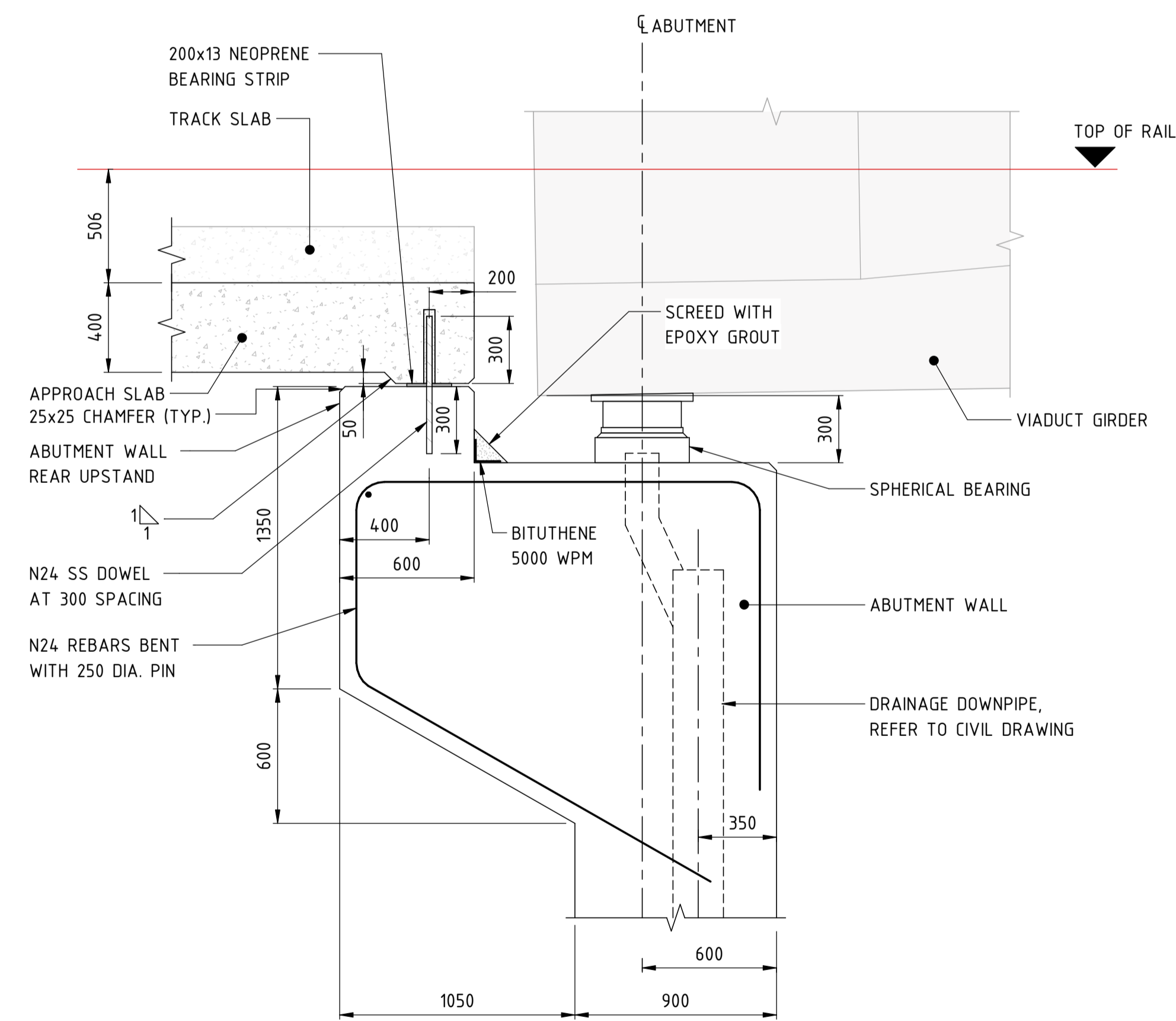
TYPICAL PLAN - DEFLECTION WALL TO RETAINING WALL TRANSITION
SCALE 1 : 100



SECTION A
SCALE 1 : 100

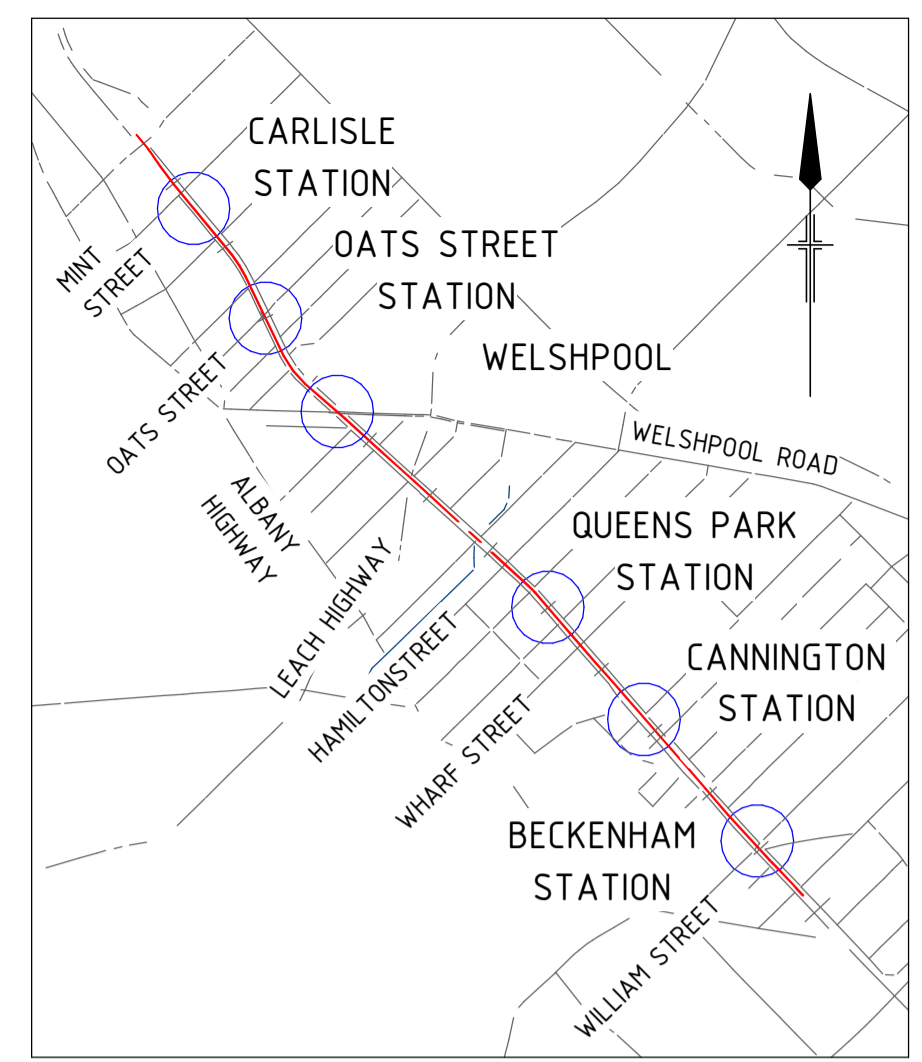


TYPICAL PLAN - ABUTMENT PILECAP
SCALE 1 : 100

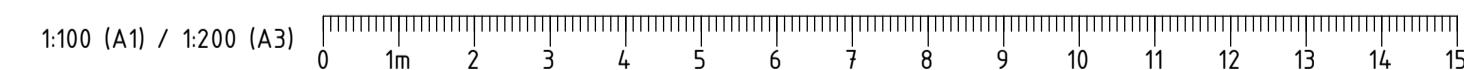


TYPICAL VIADUCT ABUTMENT

DETAIL 1
SCALE 1 : 20

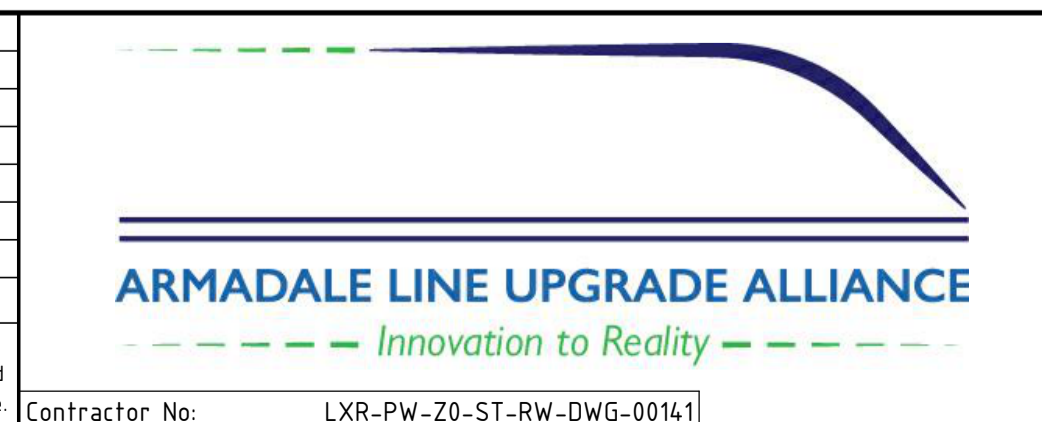


LOCALITY PLAN



REFERENCE DESIGN

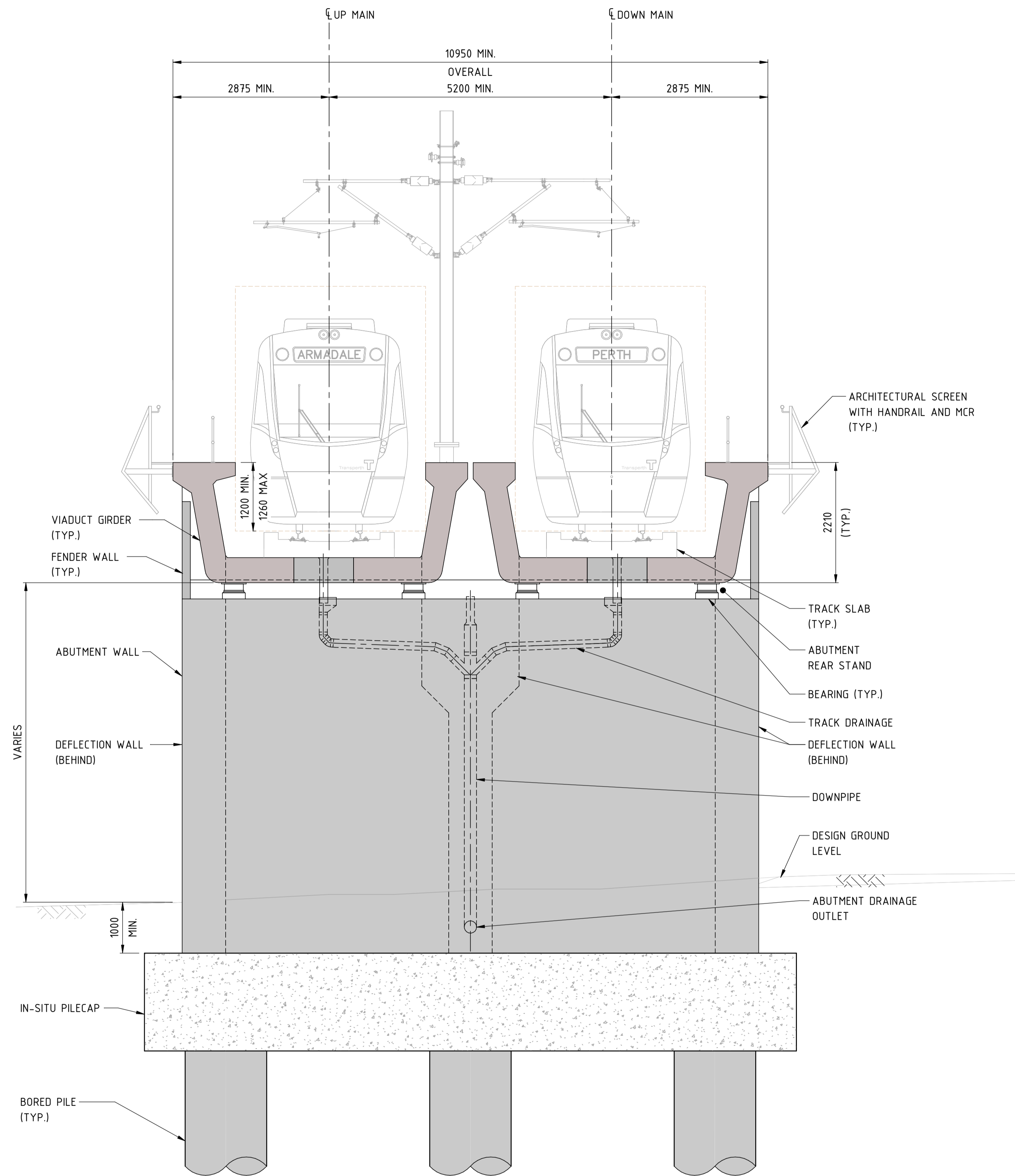
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AMENDMENT	DSN	DRN	CHK	APP		
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VALIDATION	SIGNATURE	DATE APPROVED

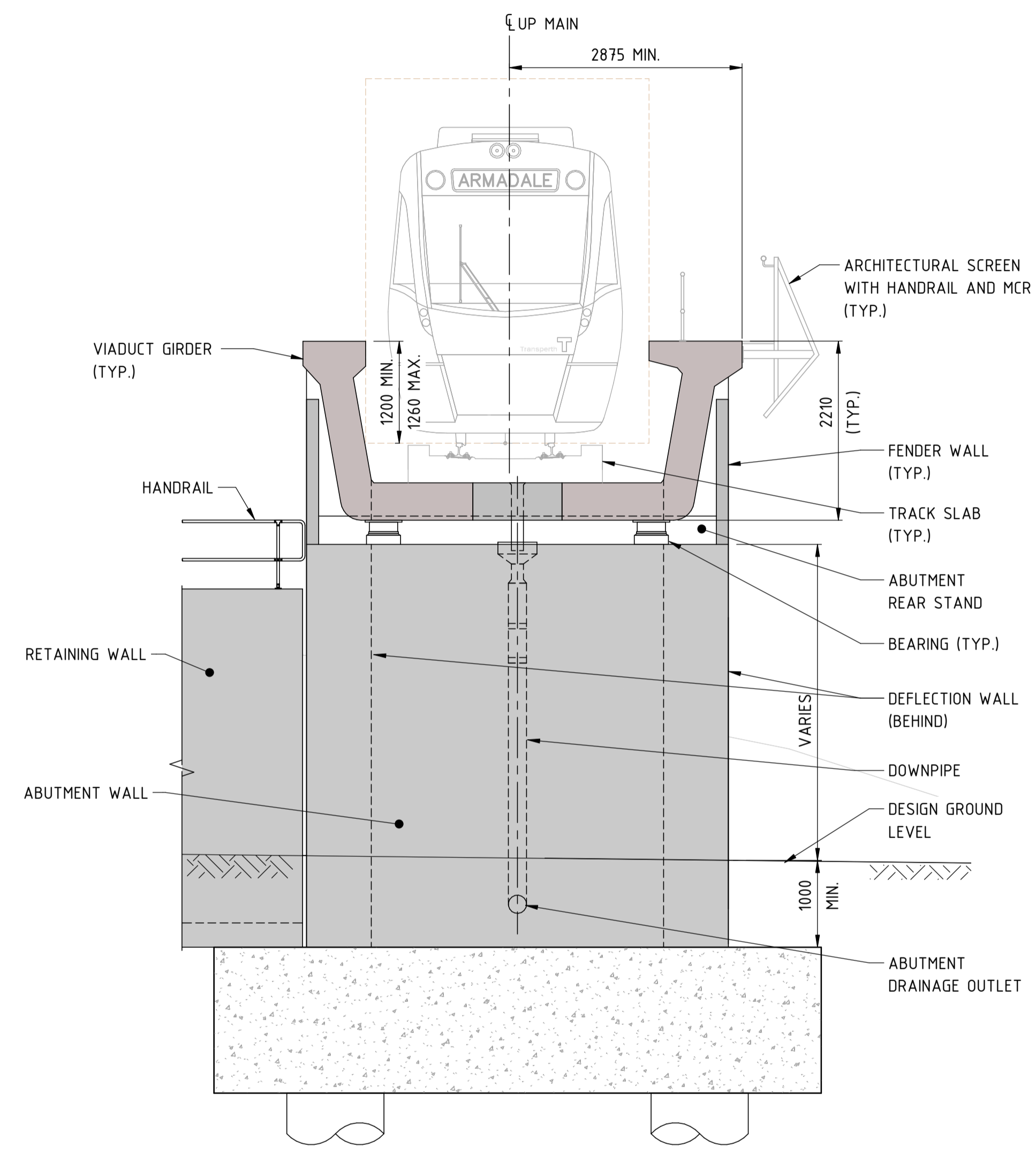
REFERENCES	SCALE	DESIGNED
	As indicated	M.SOOI
	DATUM	DRAWN
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	VERTICAL: AHD71	CHECKED
		A.ISAAC
		APPROVED
		W.SCHWARZ
		DATE
		24.06.2022

VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL	
ZONE 0 - CIVIL STRUCTURES	
PROJECT WIDE - ABUTMENTS & RETAINING WALLS	
ABUTMENT GENERAL ARRANGEMENT - SHEET 1	
PTA Drawing No:	04-S-72-0037
Rev:	A01



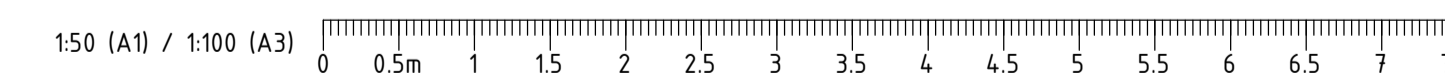
TYPICAL ABUTMENT ELEVATION

SECTION B
SCALE 1 : 50



TYPICAL ABUTMENT ELEVATION (CANNINGTON)

SECTION E
SCALE 1 : 50



REFERENCE DESIGN

REV	DATE	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
ORIG SIZE	AMENDMENT		DSN	DRN	CHK	APP
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AT ORIGINAL PLOT SIZE						

Contractor No: LXR-PW-Z0-ST-RW-DWG-00151

VALIDATION
SIGNATURE
DATE
DATE APPROVED

REFERENCES

SCALE
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DATUM
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VERTICAL: AHD71

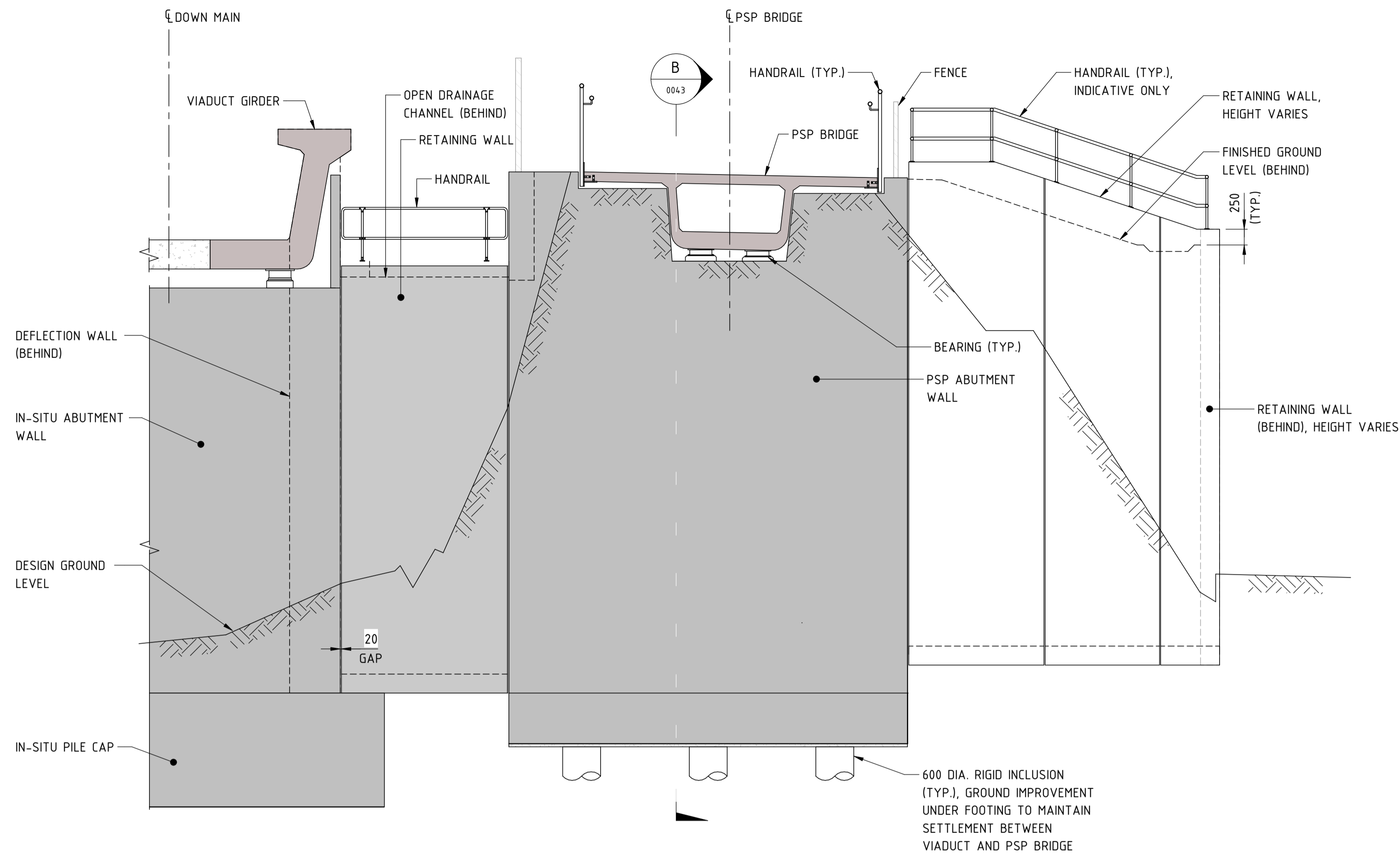
DESIGNED M.SOOI
DRAWN G.WIN
CHECKED A.ISAAC
APPROVED W.SCHWARZ
DATE 24.06.2022

Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

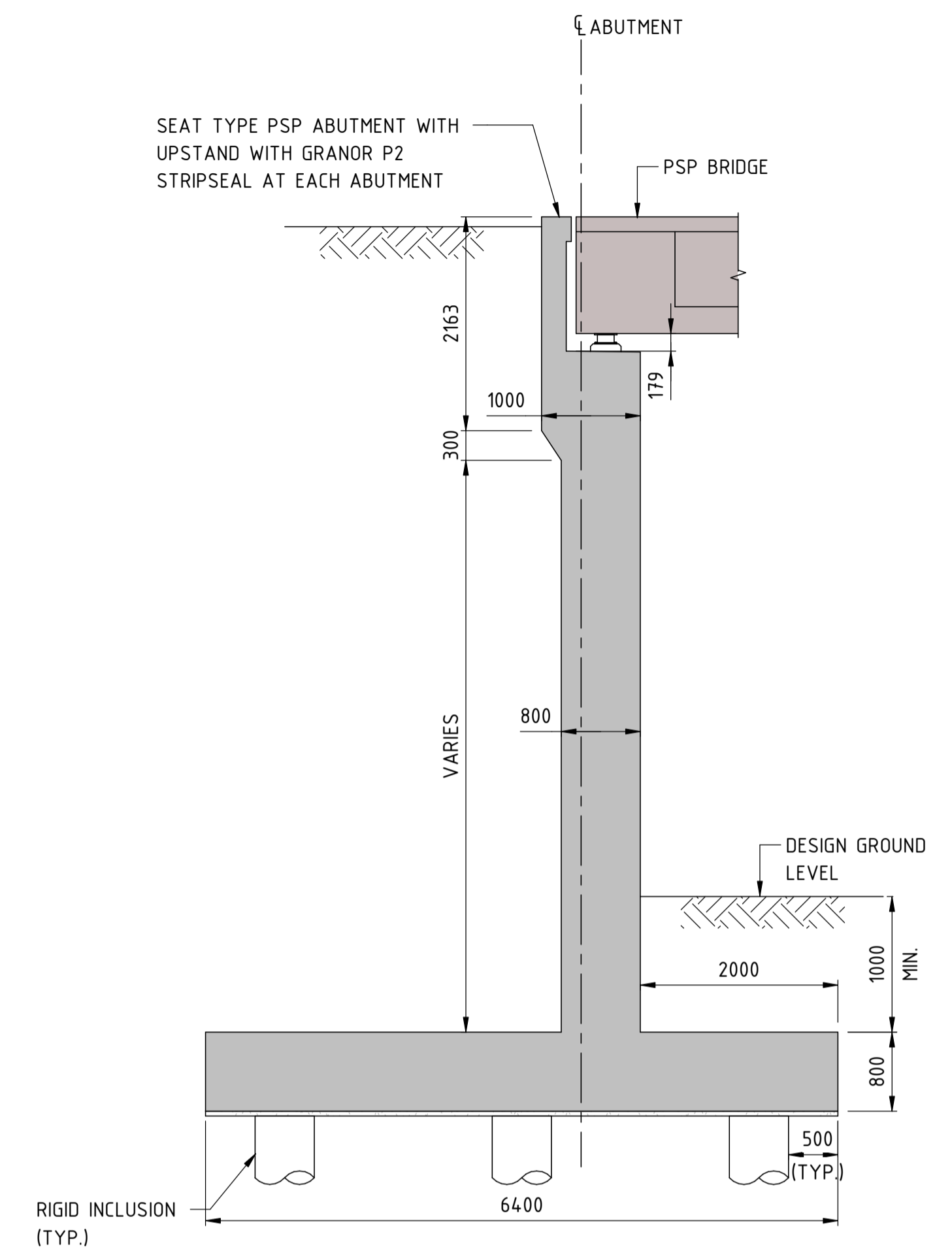
ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
GENERAL SECTIONS - SHEET 1
PTA Drawing No: 04-S-72-0042

Rev: A01



TYPICAL ELEVATION - PSP ABUTMENT WALL (FRONT)

SECTION A
SCALE 1 : 50 0038



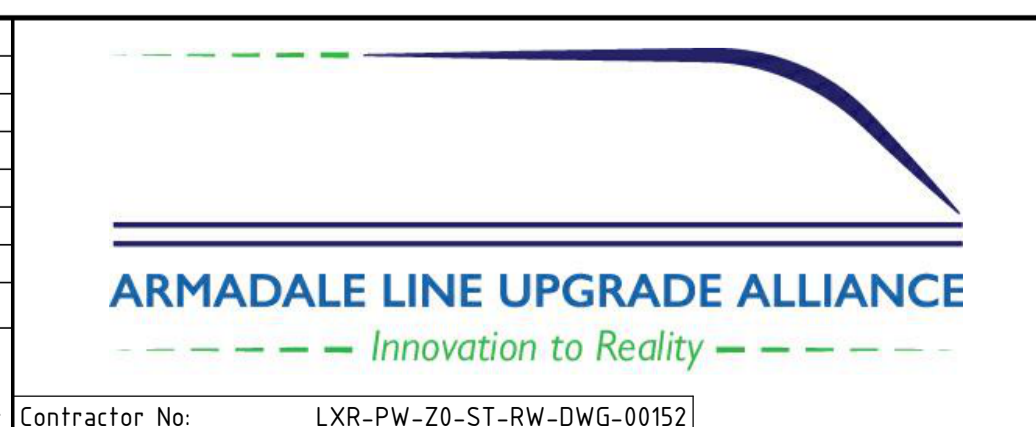
TYPICAL SECTION OF PSP ABUTMENT WALL

SECTION B
SCALE 1 : 50 0043

1:50 (A1) / 1:100 (A3) 0 0.5m 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5

REFERENCE DESIGN

REV	DATE	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
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AMENDMENT	DSN	DRN	CHK	APP		
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.			
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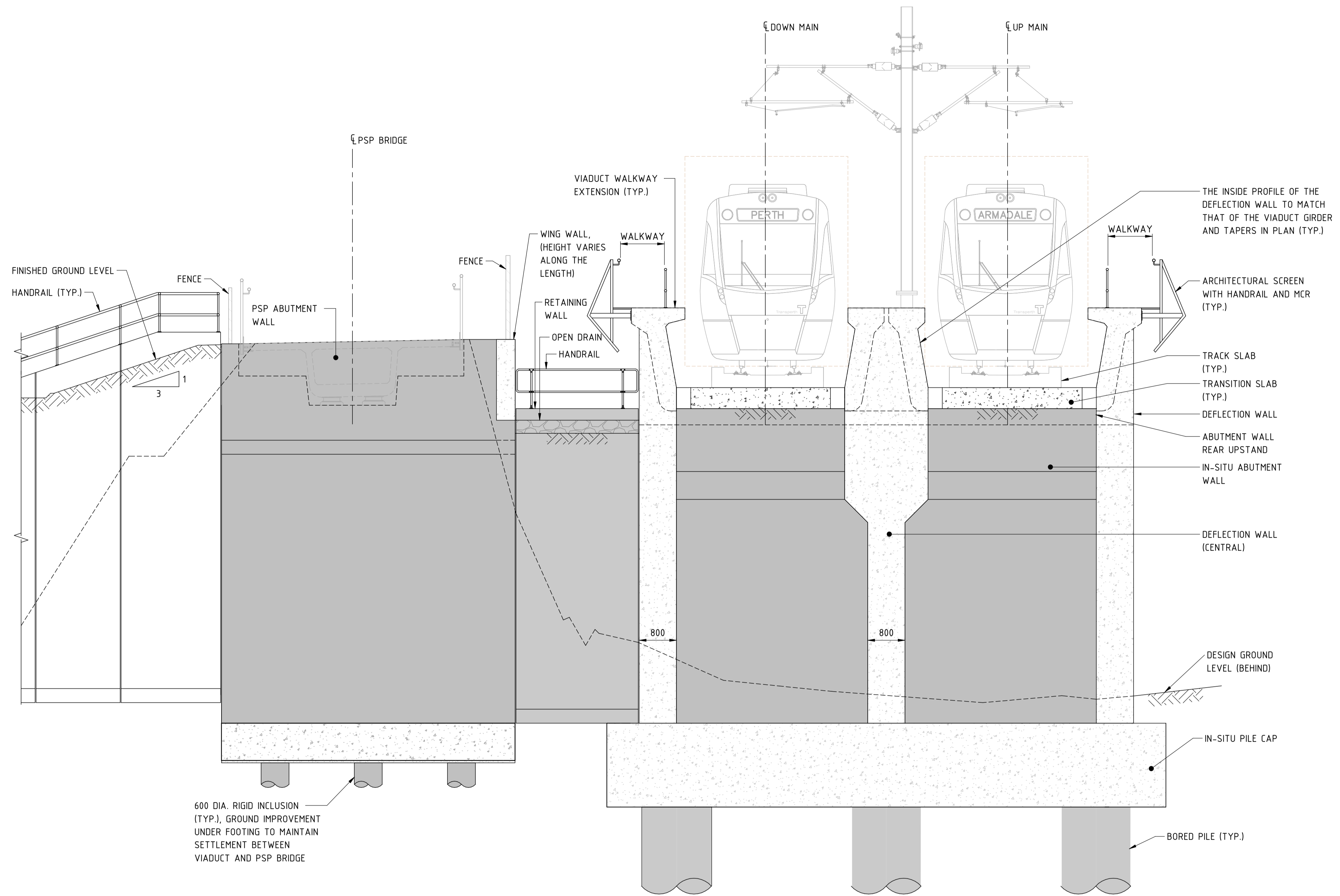
VALIDATION
SIGNATURE
DATE
DATE APPROVED

REFERENCES

SCALE
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DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED M.SOOI
DRAWN G.WIN
CHECKED A.ISAAC
APPROVED W.SCHWARZ
DATE 24.06.2022

VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
GENERAL SECTIONS - SHEET 2
PTA Drawing No: 04-S-72-0043
Rev: A01



TYPICAL ELEVATION - PSP AND VIADUCT ABUTMENT WALL (BACK)

SECTION **B**
SCALE 1 : 50

1:50 (A1) / 1:100 (A3) 0 0.5m 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5

REFERENCE DESIGN

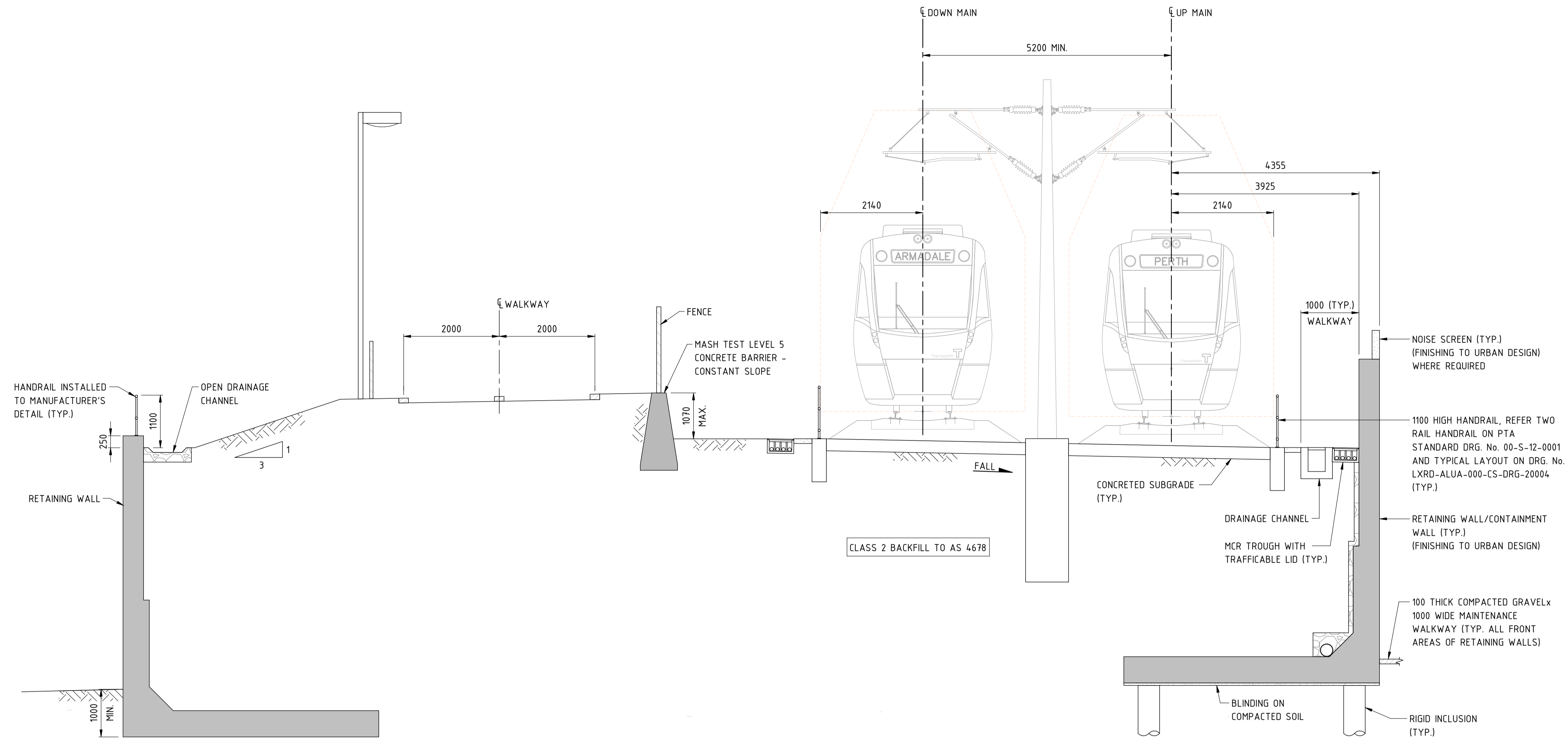
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ARMADALE LINE UPGRADE ALLIANCE
Innovation to Reality

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

SCALE	DESIGNED
1 : 50	M.SOOI
DATUM	DRAWN
HORIZONTAL: PCG20	G.WIN
VERTICAL: AHD71	CHECKED
	A.ISAAC
	APPROVED
	W.SCHWARZ
	DATE
	24.06.2022

VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL	
ZONE 0 - CIVIL STRUCTURES	
PROJECT WIDE - ABUTMENTS & RETAINING WALLS	
GENERAL SECTIONS - SHEET 3	
PTA Drawing No: 04-S-72-0044	Rev: A01



TYPICAL SECTION - RETAINING WALL

SECTION C
SCALE 1 : 50

1:50 (A1) / 1:100 (A3) 0 0.5m 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5

REFERENCE DESIGN

	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES PROJECT WIDE - ABUTMENTS & RETAINING WALLS GENERAL SECTIONS - SHEET 4	
PTA Drawing No: 04-S-72-0045	Rev: A01

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS

ORIG SIZE **A1** AT ORIGINAL PLOT SIZE

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Contractor No: LXR-PW-Z0-ST-RW-DWG-00154

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SIGNATURE

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DATE APPROVED

REFERENCES

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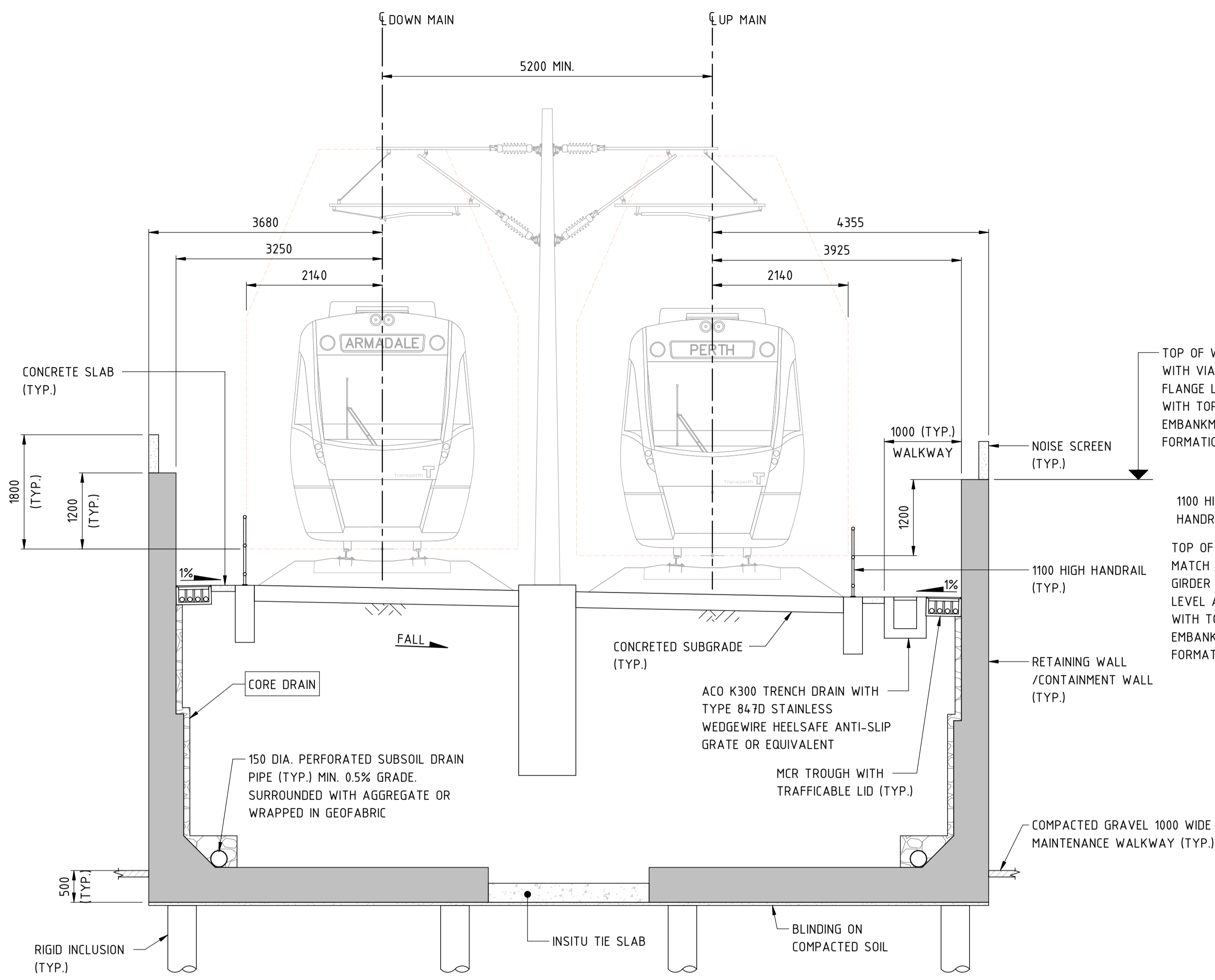
DESIGNED M.SOOI

DRAWN G.WIN

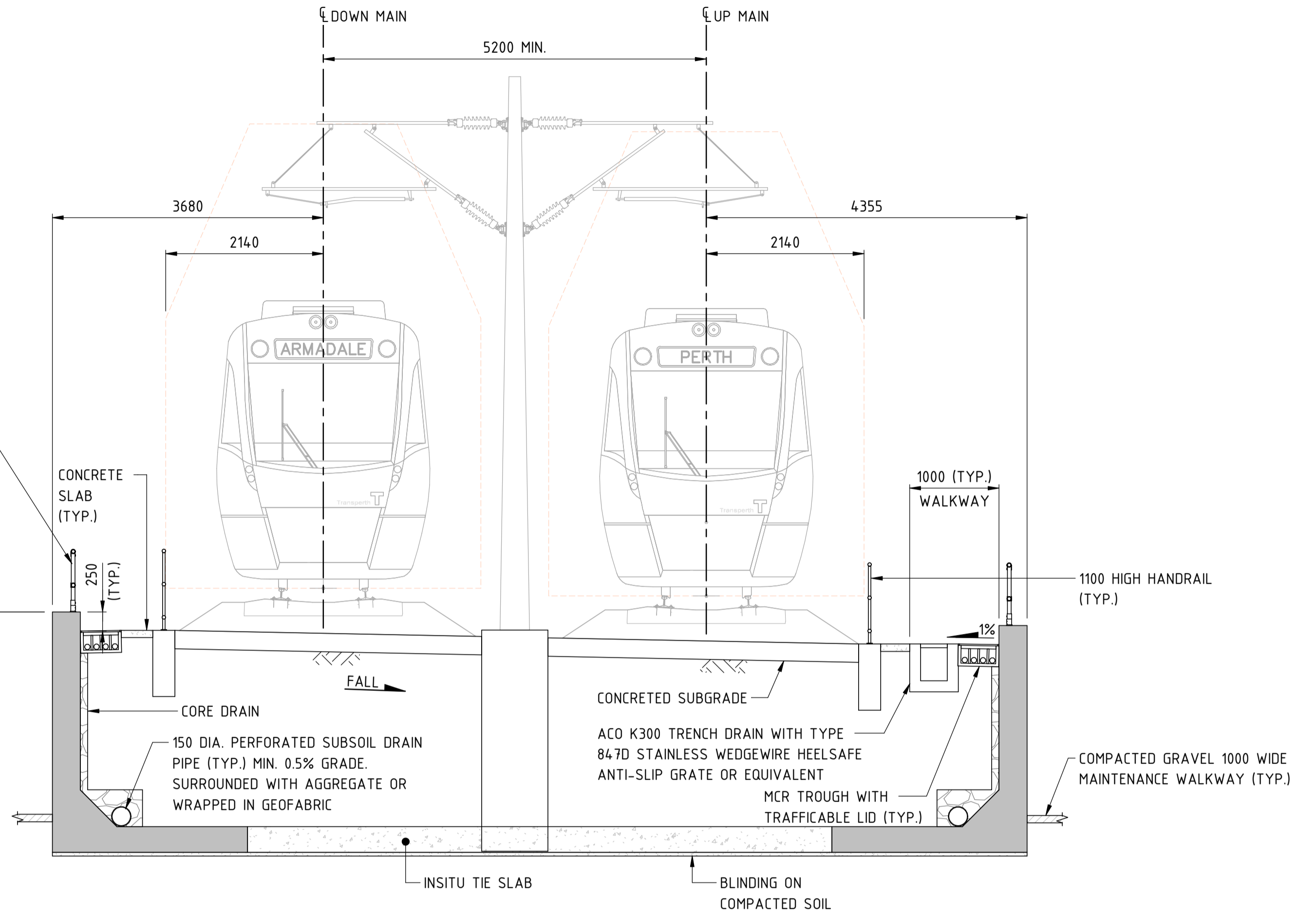
CHECKED A.ISAAC

APPROVED W.SCHWARZ

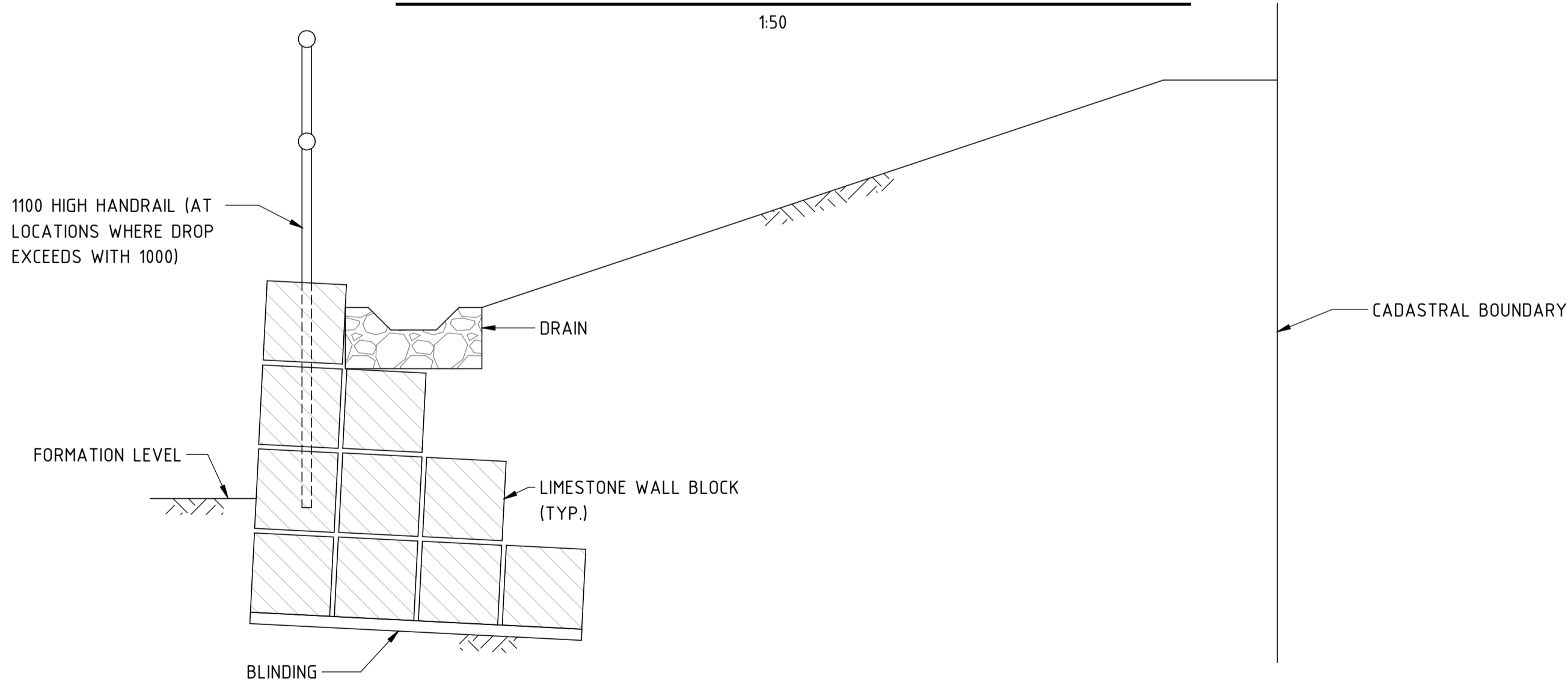
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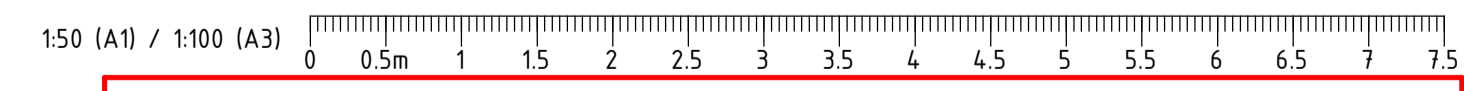
TYPICAL SECTION - STITCHED PRECAST RETAINING WALL



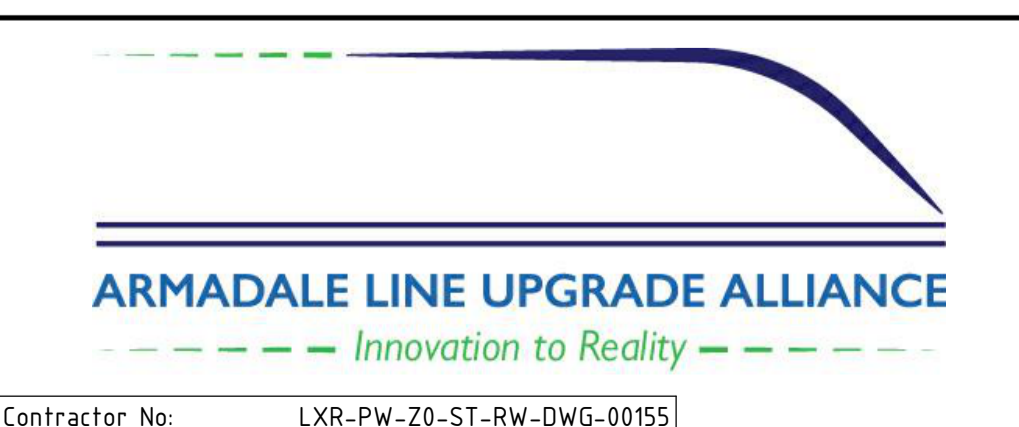
TYPICAL SECTION - STITCHED PRECAST RETAINING WALL



TYPICAL SECTION - LIMESTONE RETAINING WALL



MS	GW	AI	WS
DSN	DRN	CHK	APP
ORIG SIZE	AMENDMENT		
A1	AT ORIGINAL PLOT SIZE		



VALIDATION
SIGNATURE
DATE
DATE APPROVED

REFERENCES
SCALE
1 : 50
DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED M.SOOI
DRAWN G.WIN
CHECKED A.ISAAC
APPROVED W.SCHWARZ
DATE 24.06.2022

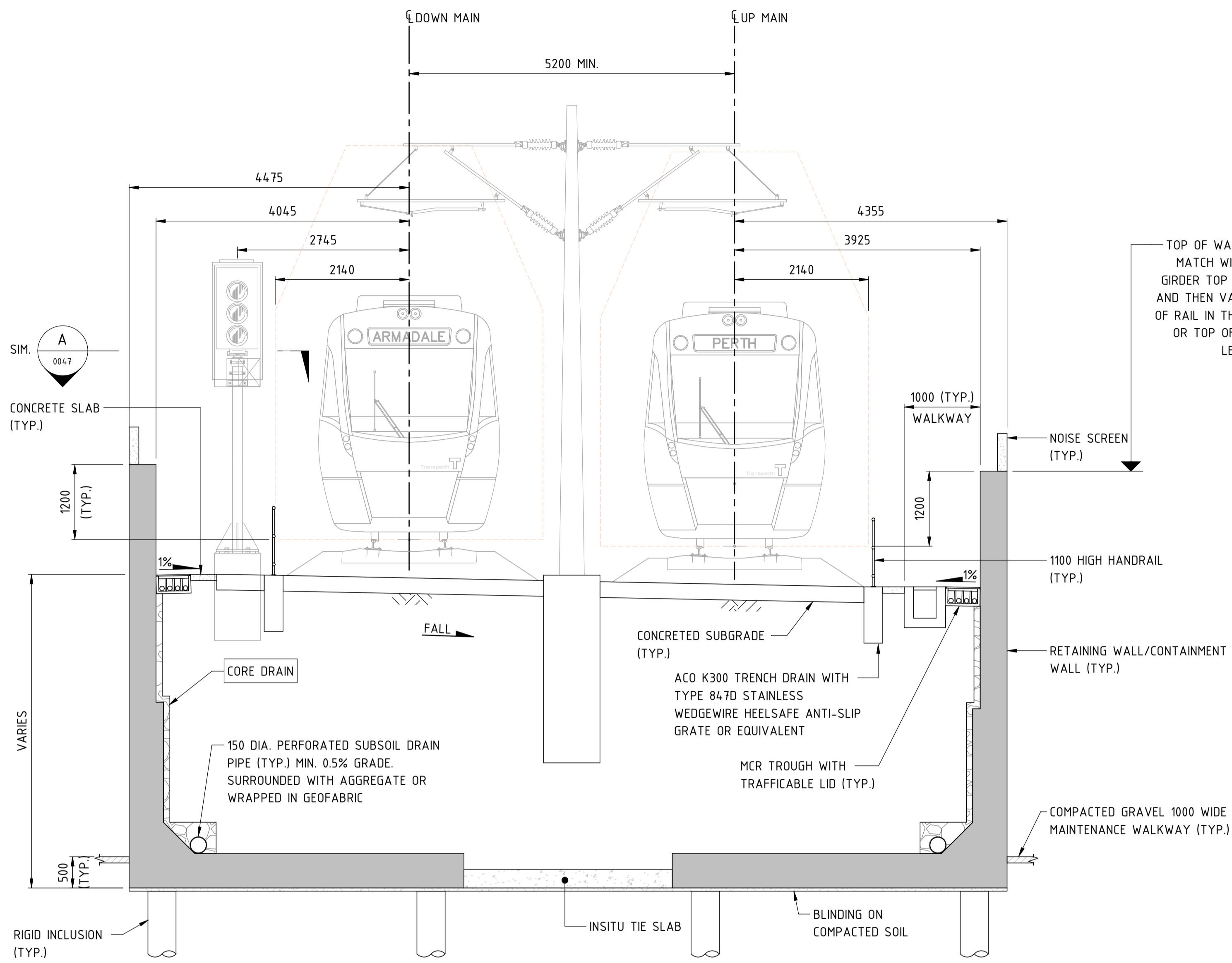
REFERENCE DESIGN

Government of Western Australia
Public Transport Authority

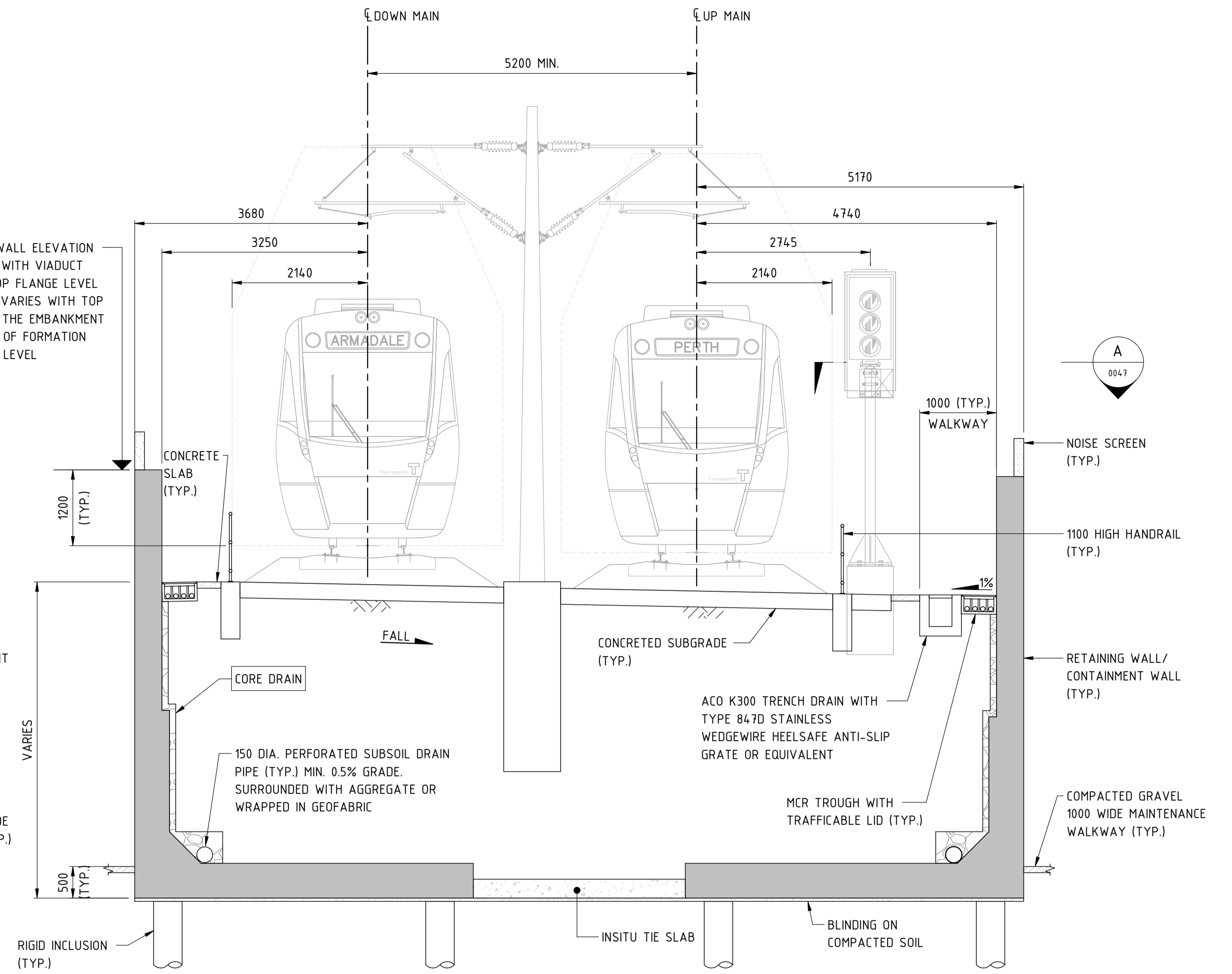
VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
GENERAL SECTIONS - SHEET 5
PTA Drawing No: 04-S-72-0046

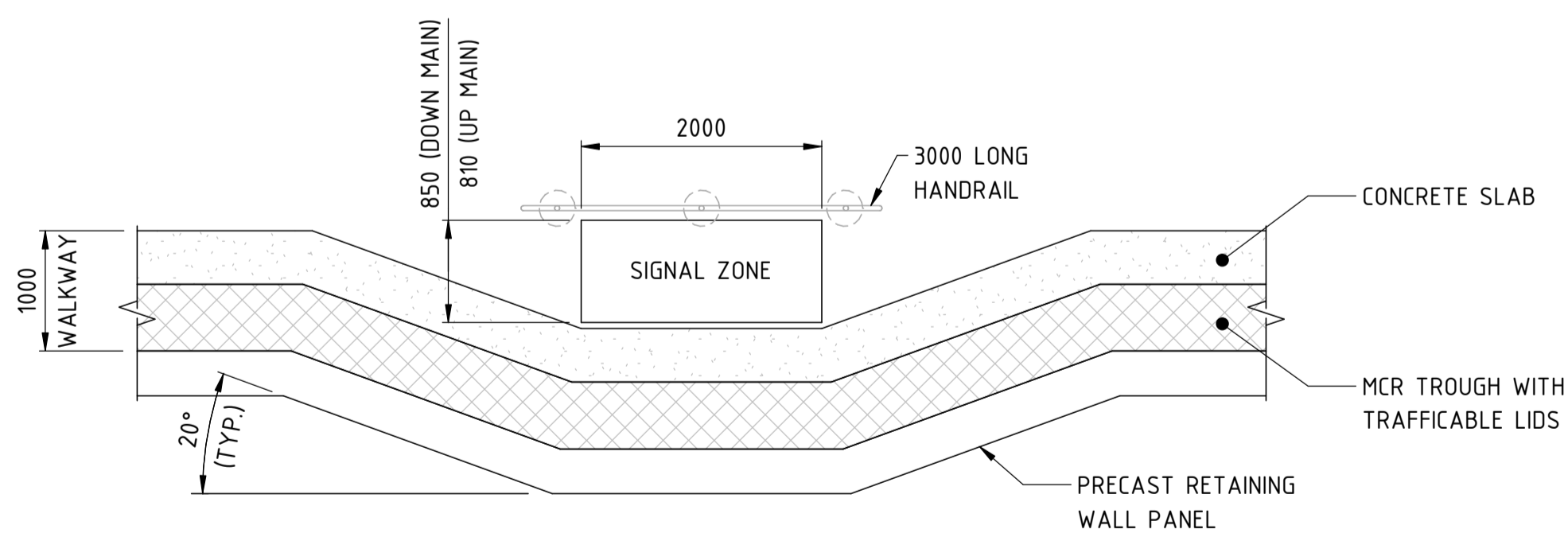
Rev: A01



DOWN MAIN SIGNAL - LOCAL WIDENING
TYPICAL SECTION - STITCHED PRECAST RETAINING WALL
 1:50

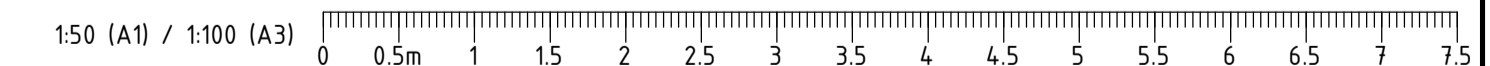


UP MAIN SIGNAL - LOCAL WIDENING
TYPICAL SECTION - STITCHED PRECAST RETAINING WALL
 1:50



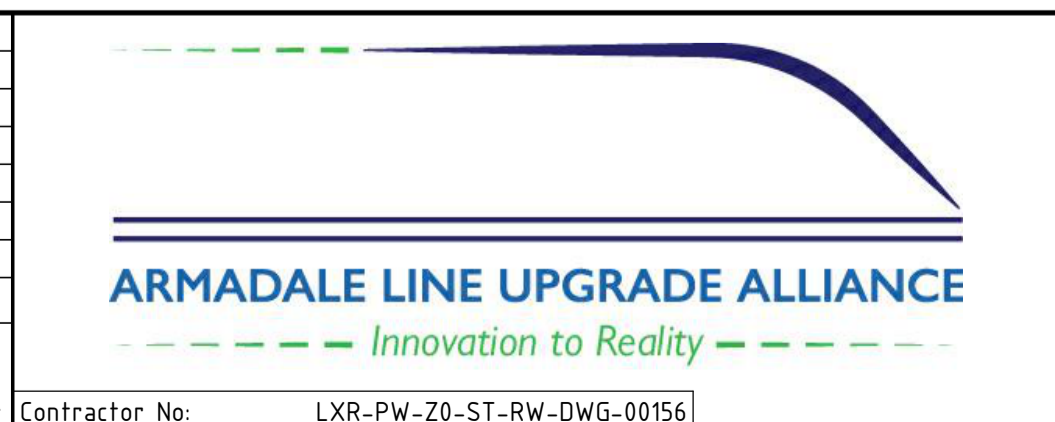
PLAN - TYPICAL LOCAL WIDENING AT SIGNAL ZONE

SECTION A
 SCALE 1:50



REFERENCE DESIGN

REV	DATE	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
A01	24.06.22					
AMENDMENT			DSN	DRN	CHK	APP
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VALIDATION
 SIGNATURE
 DATE
 DATE APPROVED

REFERENCES

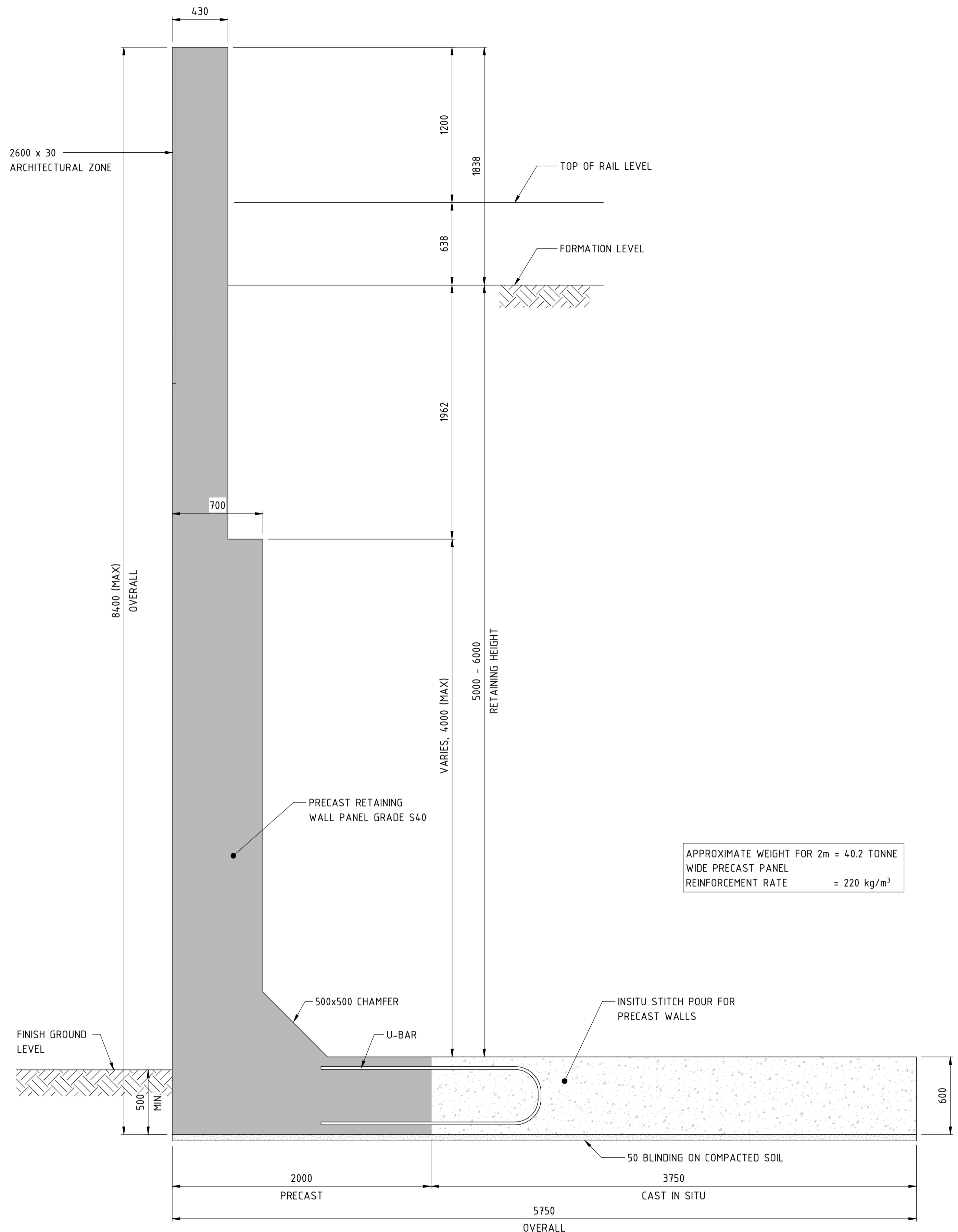
SCALE
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 DATUM
 HORIZONTAL: PCG20
 VERTICAL: AHD71

DESIGNED M.SOOI
 DRAWN G.WIN
 CHECKED A.ISAAC
 APPROVED W.SCHWARZ
 DATE 24.06.2022

Government of Western Australia
 Public Transport Authority

VICTORIA PARK TO CANNING
 LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
 PROJECT WIDE - ABUTMENTS & RETAINING WALLS
 GENERAL SECTIONS - SHEET 6
 PTA Drawing No: 04-S-72-0047
 Rev: A01

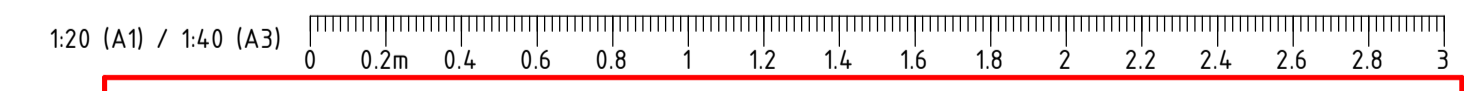


APPROXIMATE WEIGHT FOR 2m = 40.2 TONNE
 WIDE PRECAST PANEL
 REINFORCEMENT RATE = 220 kg/m³

- NOTES:**
1. NO RETAINING WALLS REQUIRED BELOW H_≤1000mm.
 2. ALLOW FOR STABILITY BRACING OF THE RETAINING WALL PRIOR TO BACKFILLING.
 3. SEE PLAN AND ELEVATION DRAWINGS FOR NOISE WALL LOCATIONS.
 4. ONLY WALLS WHERE H>3000mm ARE TO WITHSTAND IMPACT LOAD OF 500kN.
 5. WEIGHT OF PRECAST WALL FOR HANDLING PURPOSES (DOES NOT INCLUDE IN-SITU CONCRETE)

REFER GENERAL ARRANGEMENT PLAN AND ELEVATION FOR LOCATIONS OF RETAINING WALL

PRECAST RETAINING WALL PANEL RW6.0
 SCALE 1 : 20



REFERENCE DESIGN

Government of Western Australia
 Public Transport Authority

VICTORIA PARK TO CANNING
 LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
 PROJECT WIDE - ABUTMENTS & RETAINING WALLS
 RETAINING WALL CONCRETE DETAILS - SHEET 1
 PTA Drawing No: 04-S-72-0052 | Rev: A01

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
ORIG SIZE	A1	AT ORIGINAL PLOT SIZE				

Contractor No: LXR-PW-Z0-ST-RW-DWG-00161

VALIDATION
 SIGNATURE
 DATE
 DATE APPROVED

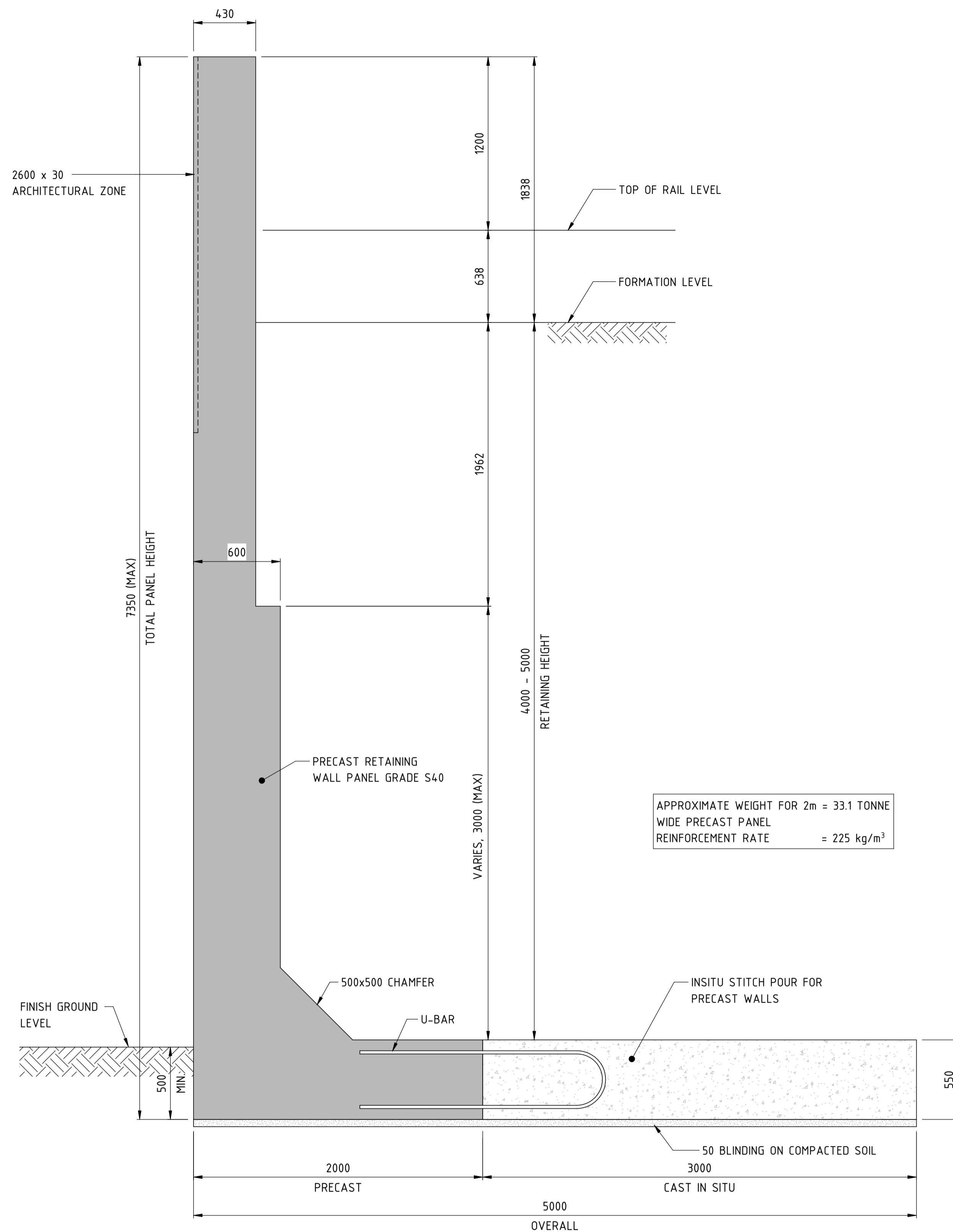
REFERENCES
 SCALE
 As indicated
 DATUM
 HORIZONTAL: PCG20
 VERTICAL: AHD71

DESIGNED M.SOOI
 DRAWN G.WIN
 CHECKED A.ISAAC
 APPROVED W.SCHWARZ
 DATE 24.06.2022

NOTES:

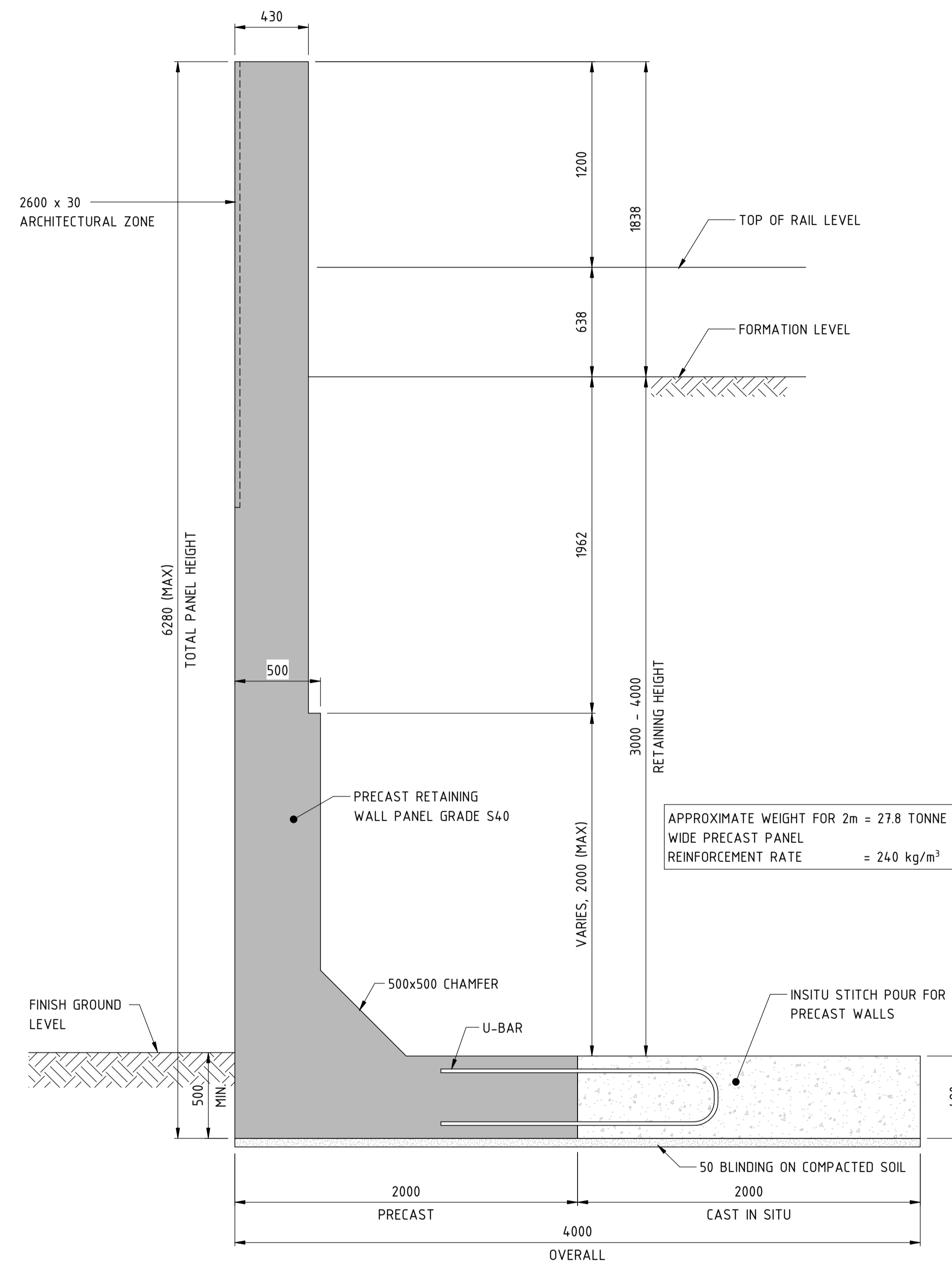
1. NO RETAINING WALLS REQUIRED BELOW H₁ ≤ 1000mm.
2. ALLOW FOR STABILITY BRACING OF THE RETAINING WALL PRIOR TO BACKFILLING.
3. SEE PLAN AND ELEVATION DRAWINGS FOR NOISE WALL LOCATIONS.
4. ONLY WALLS WHERE H > 3000mm ARE TO WITHSTAND IMPACT LOAD OF 500kN.
5. WEIGHT OF PRECAST WALL FOR HANDLING PURPOSES (DOES NOT INCLUDE IN-SITU CONCRETE)

REFER GENERAL ARRANGEMENT PLAN AND ELEVATION FOR LOCATIONS OF RETAINING WALL



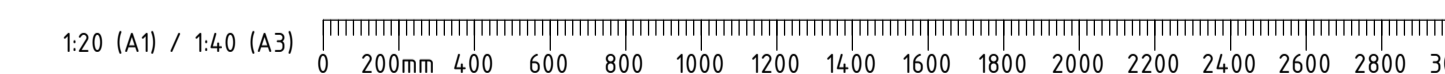
APPROXIMATE WEIGHT FOR 2m = 33.1 TONNE
WIDE PRECAST PANEL
REINFORCEMENT RATE = 225 kg/m³

PRECAST RETAINING WALL PANEL RW5.0
SCALE 1 : 20



APPROXIMATE WEIGHT FOR 2m = 27.8 TONNE
WIDE PRECAST PANEL
REINFORCEMENT RATE = 240 kg/m³

PRECAST RETAINING WALL PANEL RW4.0
SCALE 1 : 20



REFERENCE DESIGN

REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
<p>ORIG SIZE A1</p> <p>AT ORIGINAL PLOT SIZE</p> <p>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.</p>						

Contractor No: LXR-PW-Z0-ST-RW-DWG-00162

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

SCALE	DESIGNED
As indicated	M.SOOI
DATUM	DRAWN
HORIZONTAL: PCG20	G.WIN
VERTICAL: AHD71	CHECKED
	A.ISAAC
	APPROVED
	W.SCHWARZ
	DATE
	24.06.2022

Government of Western Australia
Public Transport Authority

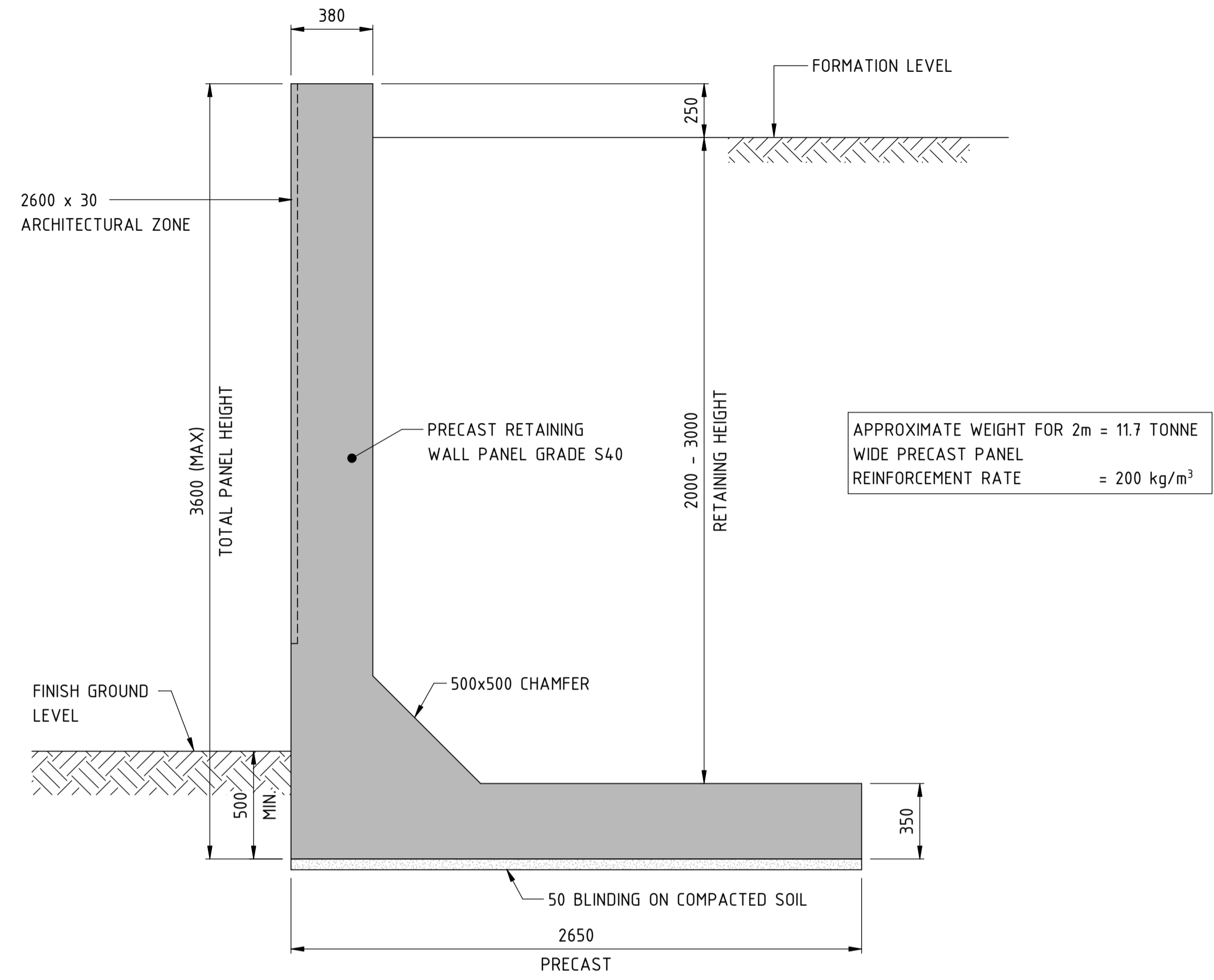
VICTORIA PARK TO CANNING
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
PROJECT WIDE - ABUTMENTS & RETAINING WALLS
RETAINING WALL CONCRETE DETAILS - SHEET 2
PTA Drawing No: **04-S-72-0053** | Rev: **A01**

NOTES:

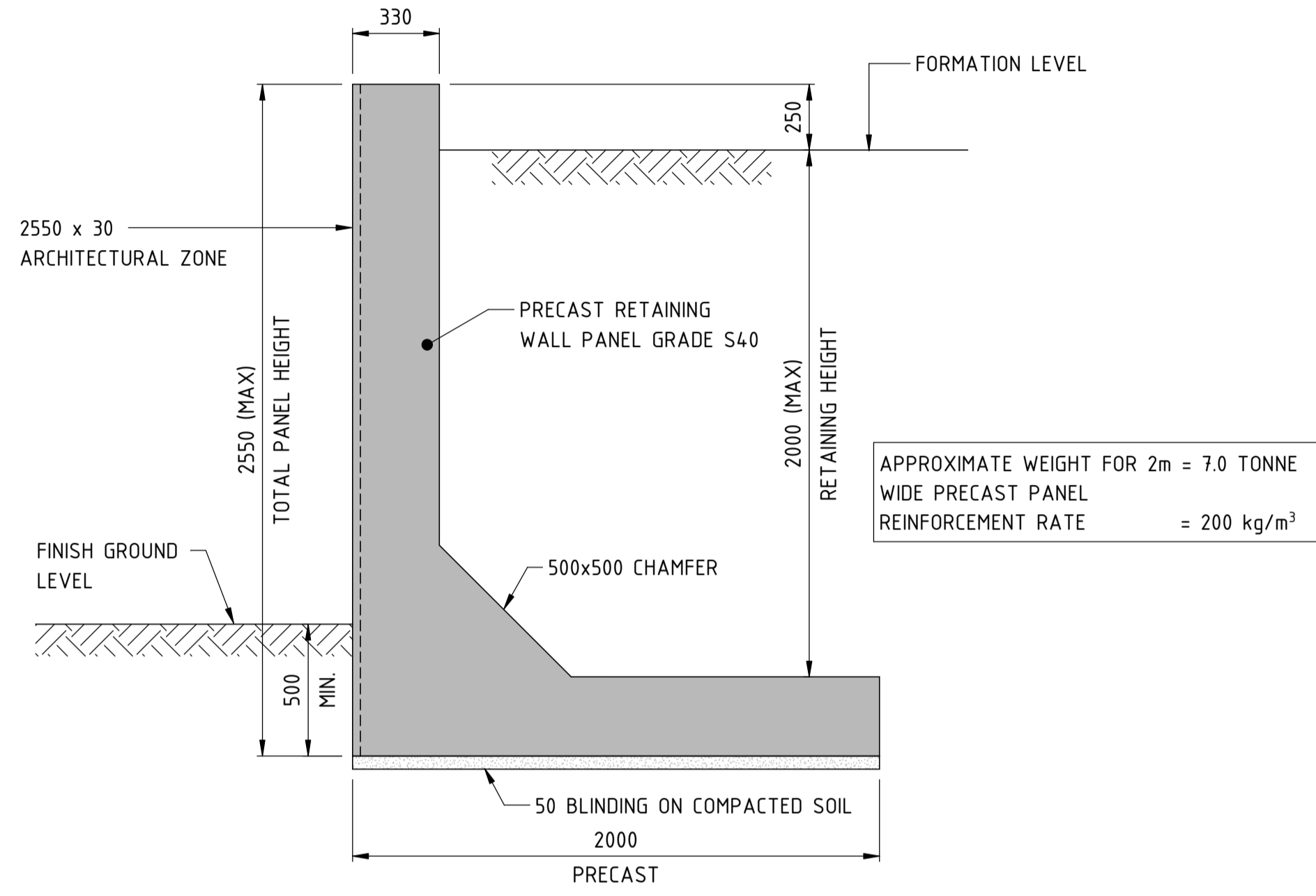
1. NO RETAINING WALLS REQUIRED BELOW H₂ ≤ 1000mm.
2. ALLOW FOR STABILITY BRACING OF THE RETAINING WALL PRIOR TO BACKFILLING.
3. SEE PLAN AND ELEVATION DRAWINGS FOR NOISE WALL LOCATIONS.
4. ONLY WALLS WHERE H > 3000mm ARE TO WITHSTAND IMPACT LOAD OF 500kN.
5. WEIGHT OF PRECAST WALL FOR HANDLING PURPOSES (DOES NOT INCLUDE IN-SITU CONCRETE)

REFER GENERAL ARRANGEMENT PLAN AND ELEVATION FOR LOCATIONS OF RETAINING WALL



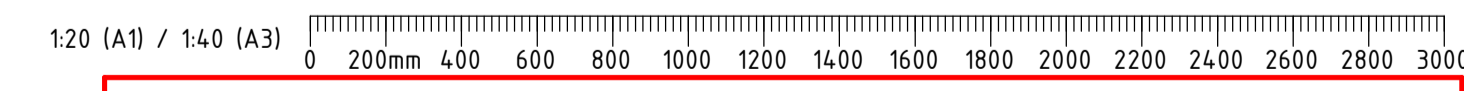
PRECAST RETAINING WALL PANEL RW3.0

SCALE 1 : 20



PRECAST RETAINING WALL PANEL RW2.0

SCALE 1 : 20



REFERENCE DESIGN

REV	DATE	AMENDMENT	MS	GW	AI	WS
A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN				
ORIG SIZE	AT ORIGINAL PLOT SIZE		DSN	DRN	CHK	APP
A1	0 10 20 30 40 50 100mm					

ARMADALE LINE UPGRADE ALLIANCE
Innovation to Reality

Contractor No: LXR-PW-Z0-ST-RW-DWG-00163

VALIDATION
SIGNATURE
DATE
DATE APPROVED

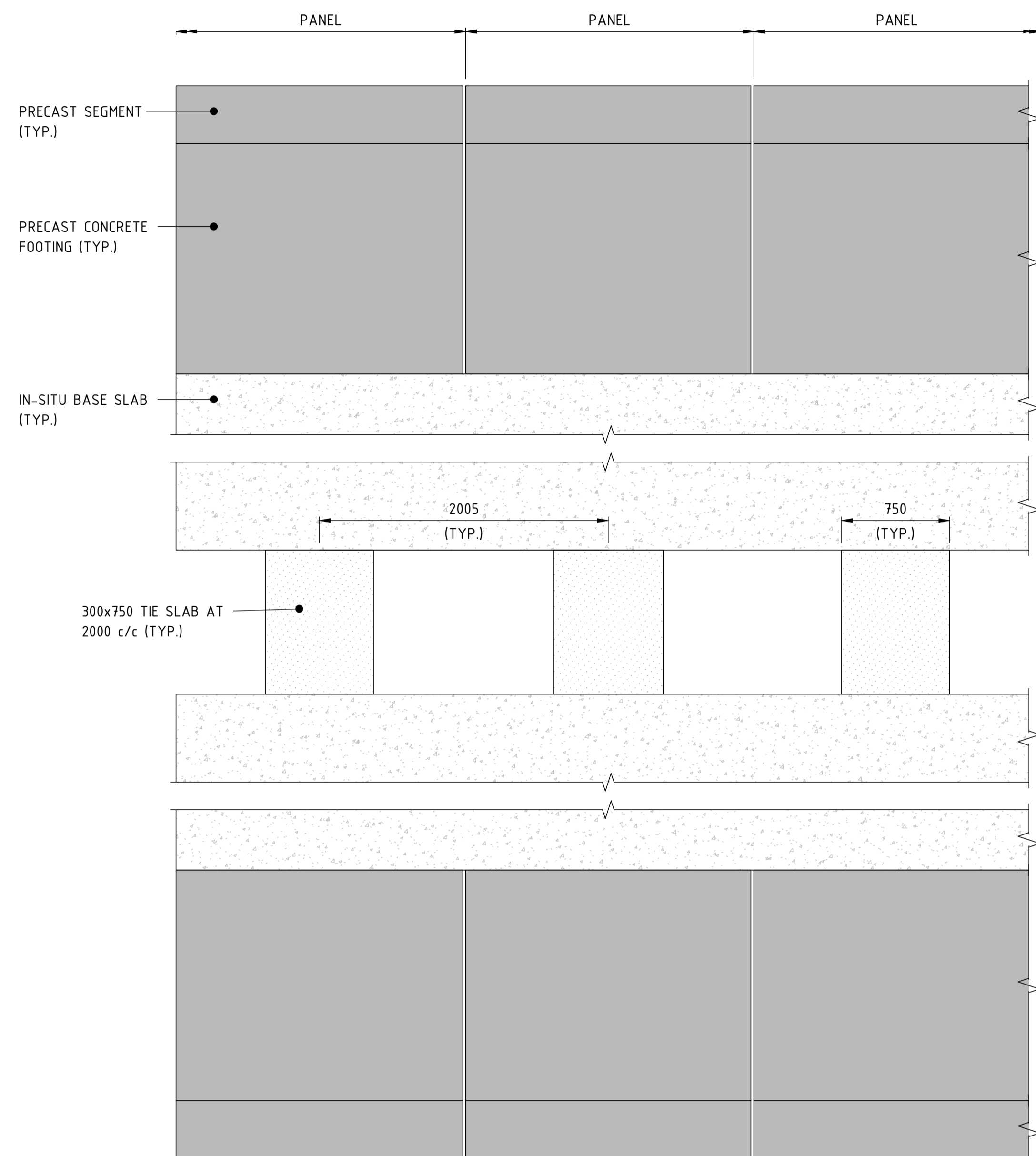
REFERENCES
SCALE
DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED	M.SOOI
DRAWN	G.WIN
CHECKED	A.ISAAC
APPROVED	W.SCHWARZ
DATE	24.06.2022

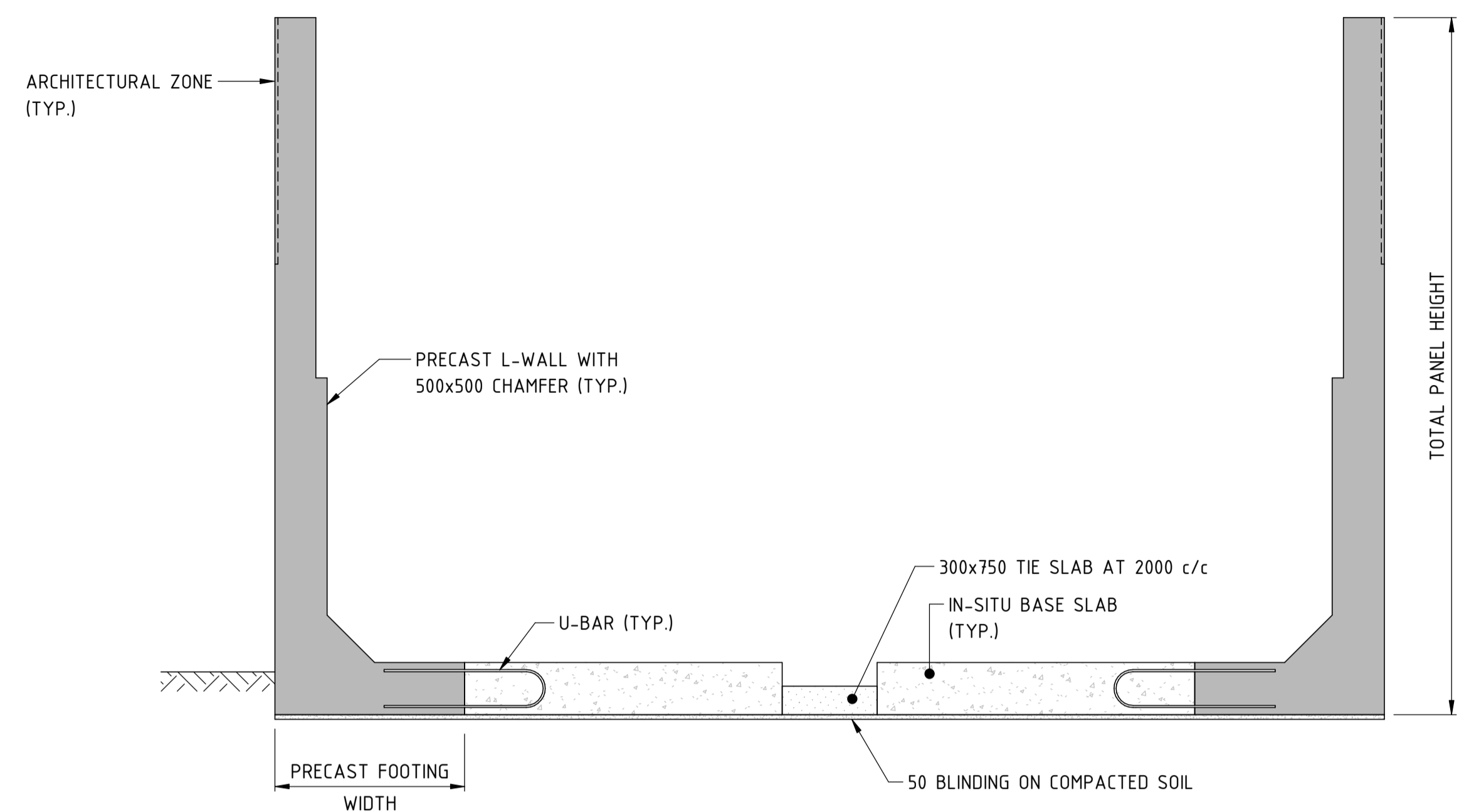
Government of Western Australia
Public Transport Authority

VICTORIA PARK TO CANNING
 LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES
 PROJECT WIDE - ABUTMENTS & RETAINING WALLS
 RETAINING WALL CONCRETE DETAILS - SHEET 3
 PTA Drawing No: 04-S-72-0054 | Rev: A01



**TYPICAL PLAN - PRECAST RETAINING WALL
AND IN-SITU CONCRETE BASE**
SCALE N.T.S

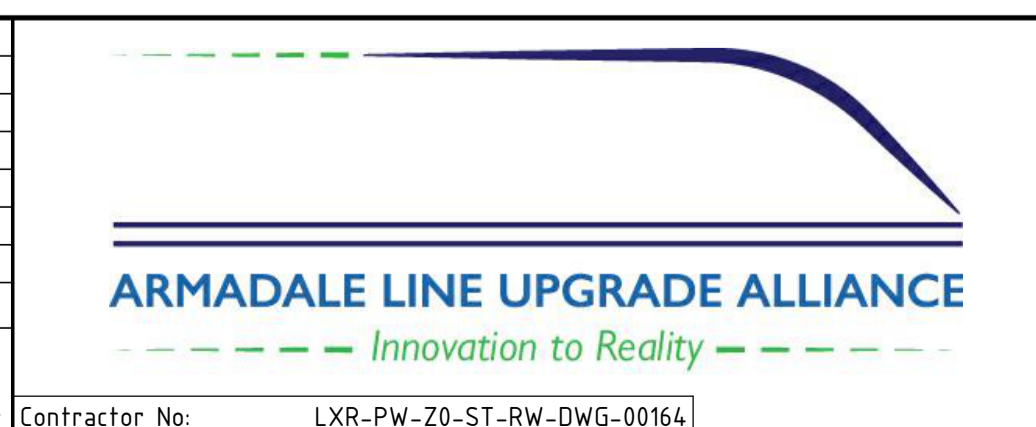


**RETAINING WALL CONCEPTUAL USING PRECAST
L-SHAPED WALL**
SCALE 1 : 50

1:50 (A1) / 1:100 (A3) 0 0.5m 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5

REFERENCE DESIGN

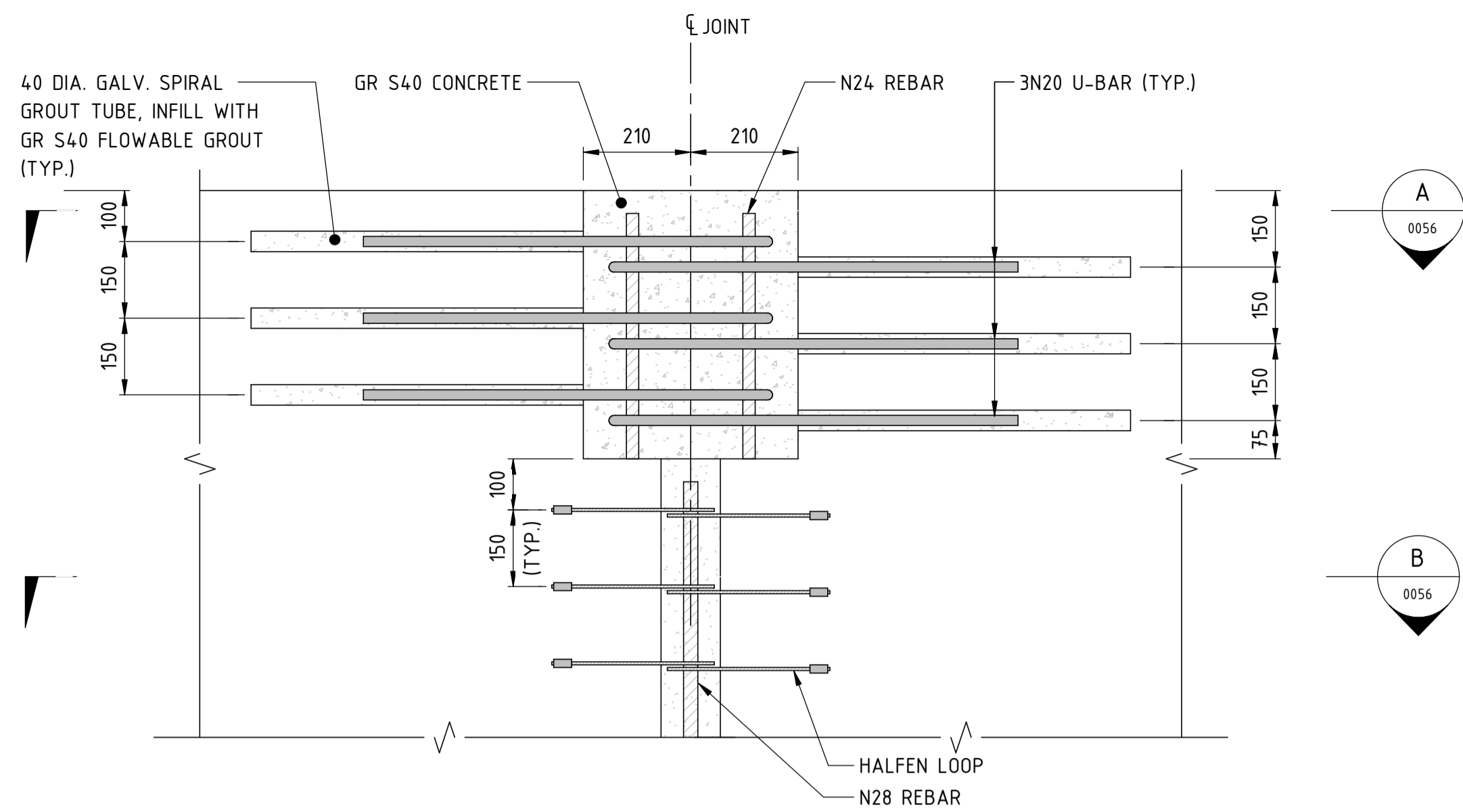
REV	DATE	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
A01	24.06.22					
AMENDMENT	DSN	DRN	CHK	APP		
ORIG SIZE	AT ORIGINAL PLOT SIZE		This document must not be copied without PTA's written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorised purpose.			
A1	0 10 20 30 40 50 100mm		Contractor No: LXR-PW-Z0-ST-RW-DWG-00164			



VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

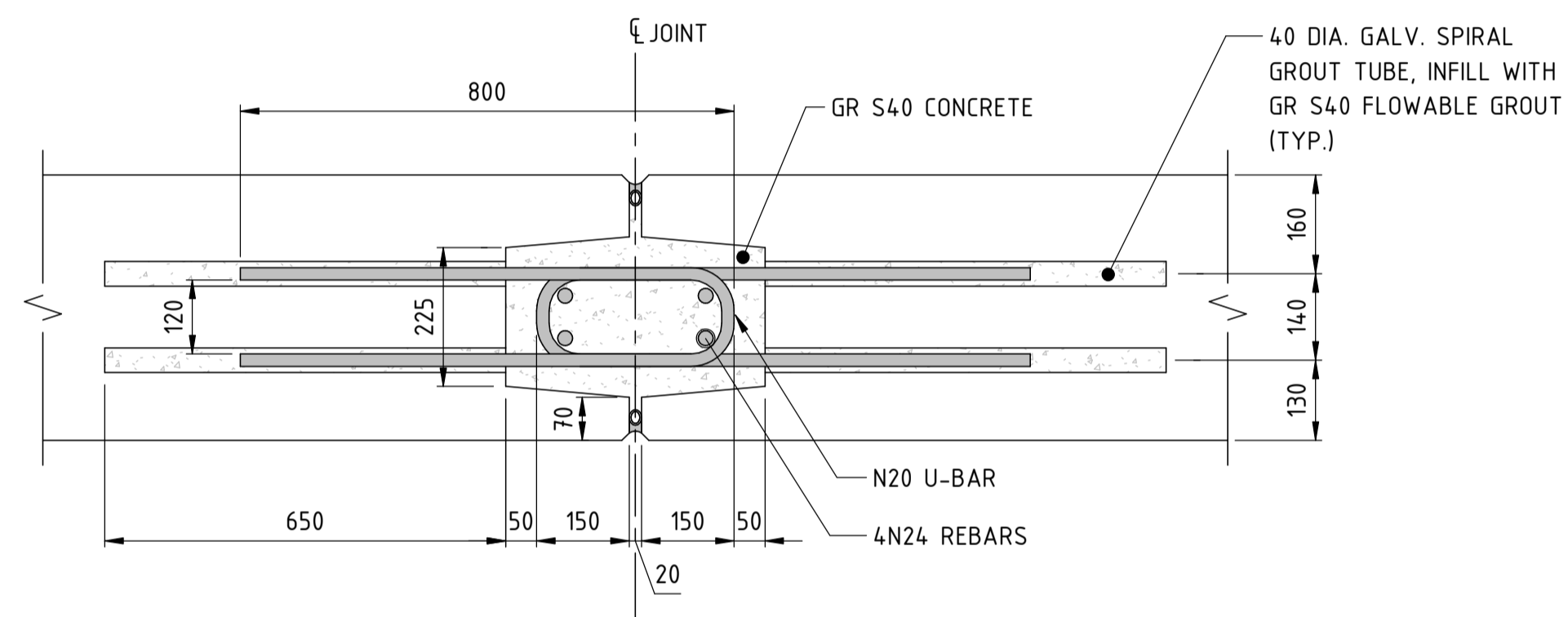
SCALE	DESIGNED
As indicated	M.SOOI
DATUM	DRAWN
HORIZONTAL: PCG20	G.WIN
VERTICAL: AHD71	CHECKED
	A.ISAAC
	APPROVED
	W.SCHWARZ
	DATE
	24.06.2022

		VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES PROJECT WIDE - ABUTMENTS & RETAINING WALLS RETAINING WALL CONCRETE DETAILS - SHEET 4 PTA Drawing No: 04-S-72-0055 Rev: A01		



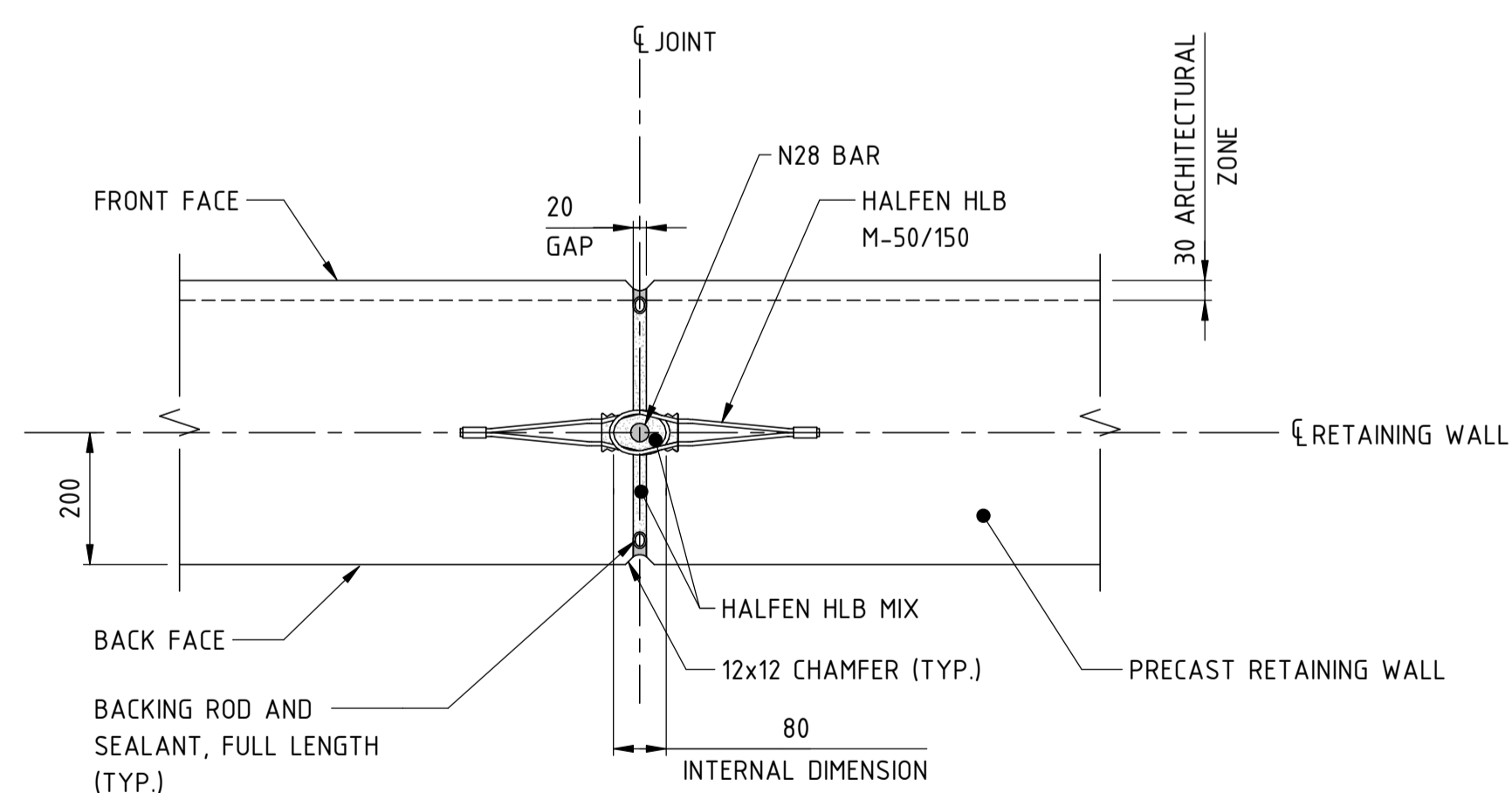
**TYPICAL PRECAST RETAINING WALL
CONNECTION DETAIL AT TOP JOINT**

SCALE 1 : 10



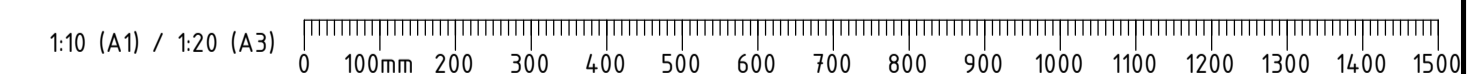
JOINT DETAIL AT TOP OF RETAINING WALL (TYP.)

SECTION A
SCALE 1 : 10



JOINT DETAIL IN VERTICAL FACE OF PRECAST RETAINING WALL (TYP.)

SECTION B
SCALE 1 : 10



REFERENCE DESIGN

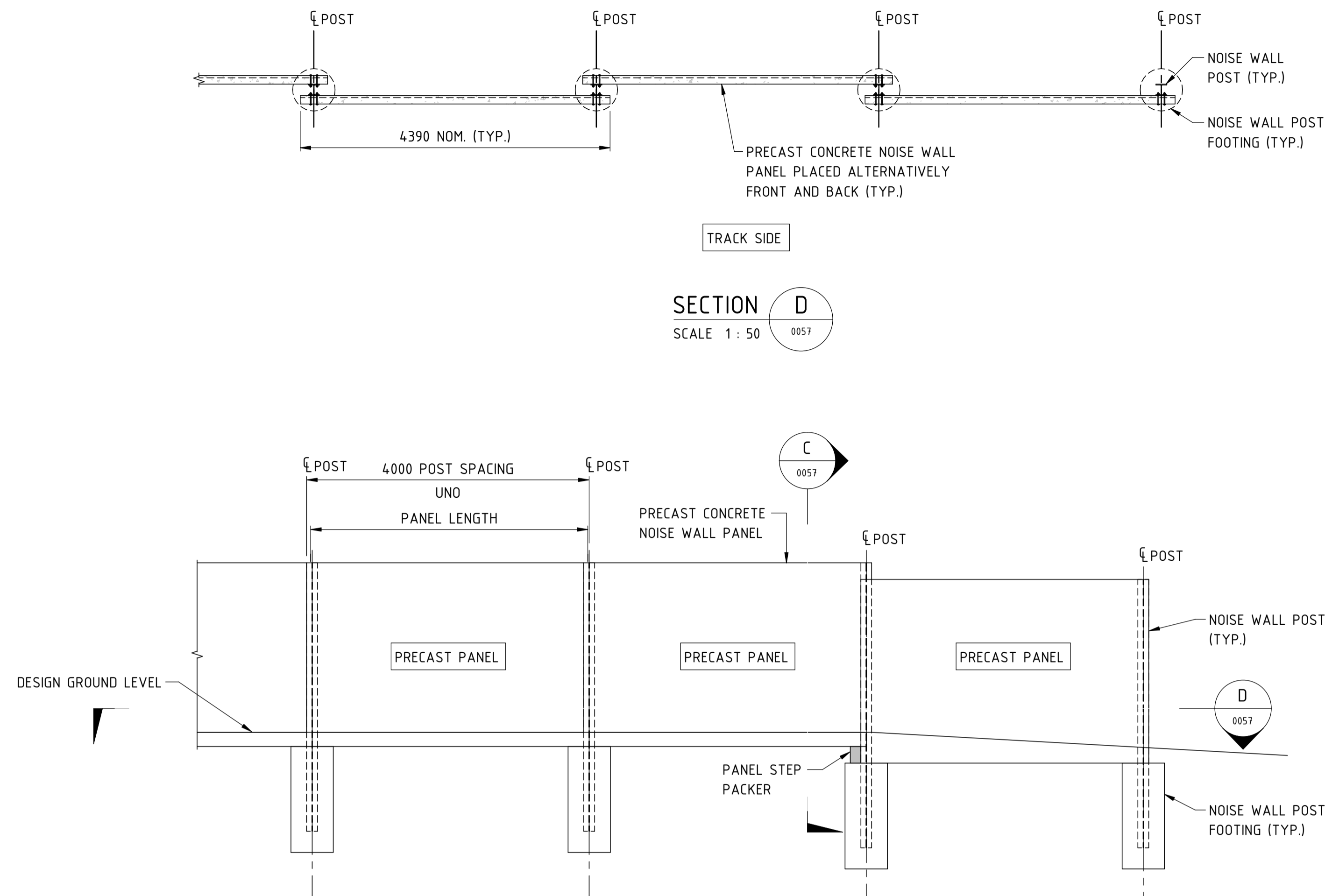
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN	MS	GW	AI	WS
<p>ORIG SIZE: 0 10 20 30 40 50 100mm</p> <p>AT ORIGINAL PLOT SIZE</p>						

Contractor No: LXR-PW-Z0-ST-RW-DWG-00165

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

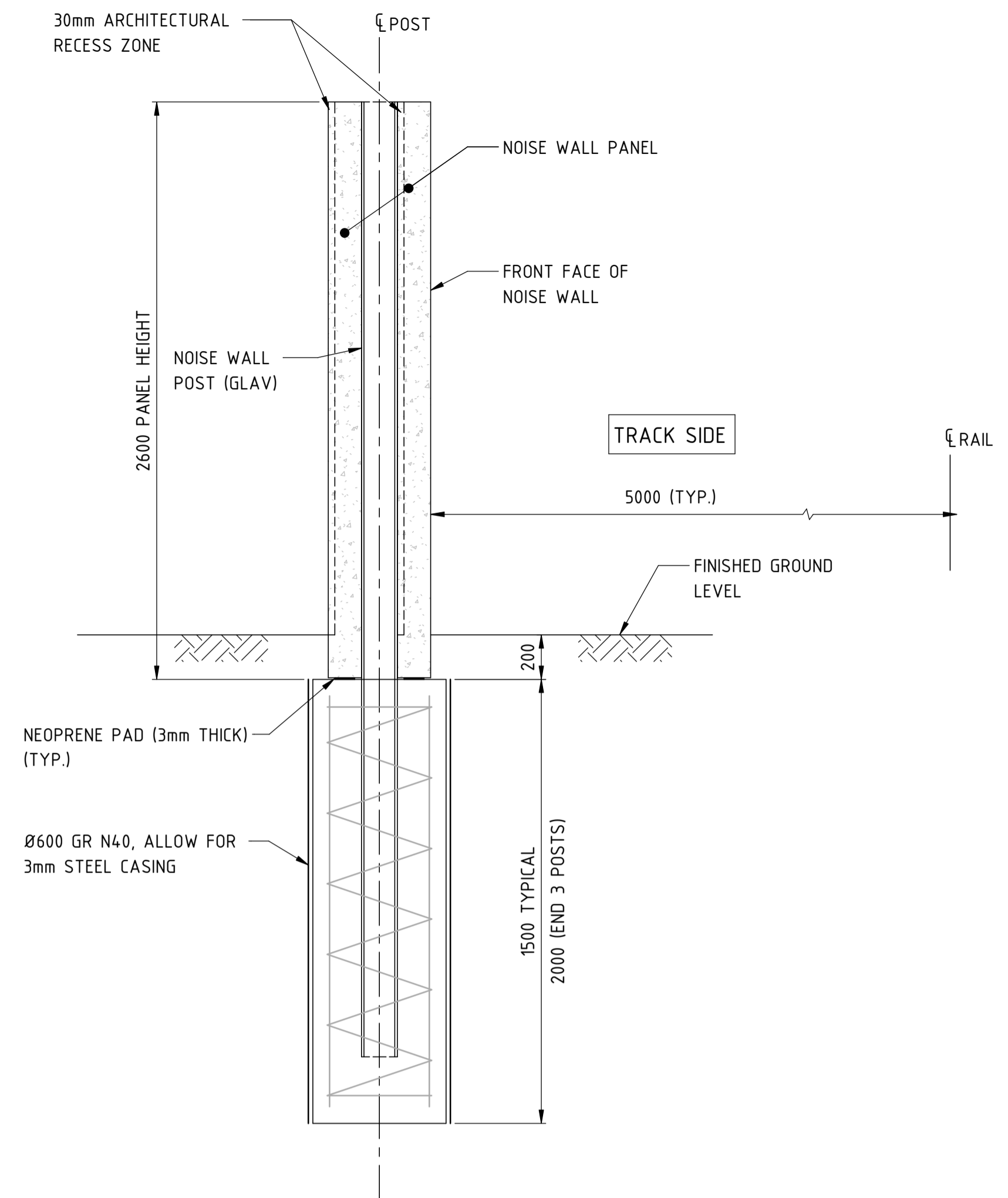
SCALE	DESIGNED
1 : 10	M.SOOI
DATUM	DRAWN
HORIZONTAL: PCG20	G.WIN
VERTICAL: AHD71	CHECKED
	A.ISAAC
	APPROVED
	W.SCHWARZ
	DATE
	24.06.2022

		VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES		
PROJECT WIDE - ABUTMENTS & RETAINING WALLS		
RETAINING WALL CONCRETE DETAILS - SHEET 5		
PTA Drawing No: 04-S-72-0056		Rev: A01



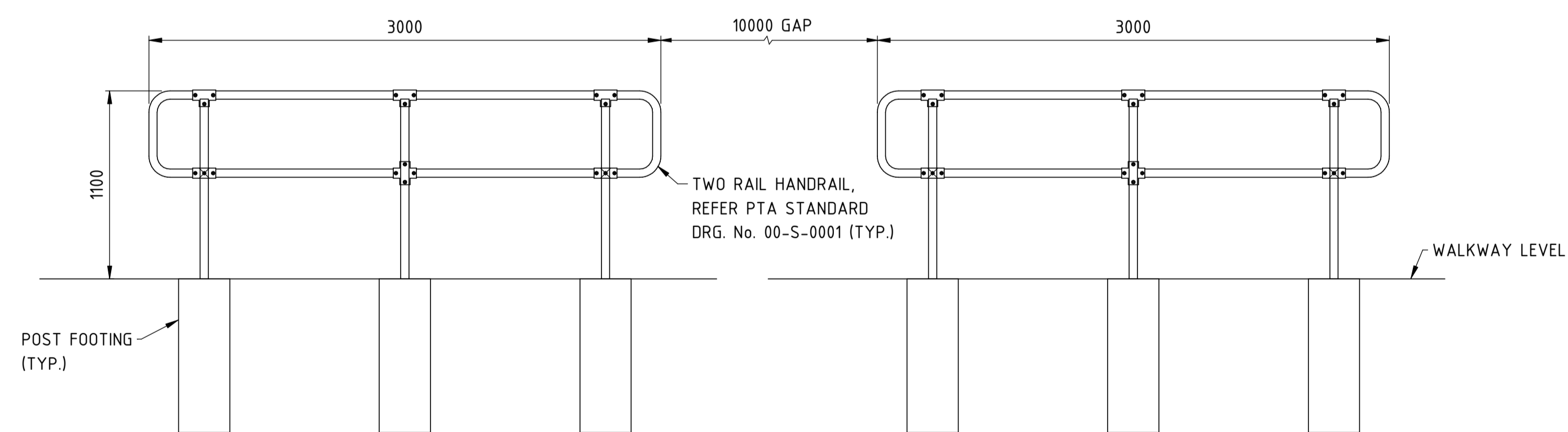
TYPICAL POST AND PANEL NOISE WALL ELEVATION

1:50



SECTION C

SCALE 1:20



TYPICAL HANDRAIL SETOUT ON EMBANKMENTS

1:25

REFERENCE DESIGN

REV	DATE	AMENDMENT	MS	GW	AI	WS
A01	24.06.22	ISSUED FOR 15% INTERNAL REFERENCE DESIGN				
ORIG SIZE	AT ORIGINAL PLOT SIZE		DSN	DRN	CHK	APP
A1						

ARMADALE LINE UPGRADE ALLIANCE
Innovation to Reality

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

SCALE	DESIGNED
As indicated	M.SOOI
DATUM	DRAWN
HORIZONTAL: PCG20	G.WIN
VERTICAL: AHD71	CHECKED
	A.ISAAC
	APPROVED
	W.SCHWARZ
	DATE
	24.06.2022

VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL	
ZONE 0 - CIVIL STRUCTURES	
PROJECT WIDE - ABUTMENTS & RETAINING WALLS	
RETAINING WALL CONCRETE DETAILS - SHEET 6	
PTA Drawing No: 04-S-72-0057	Rev: A01