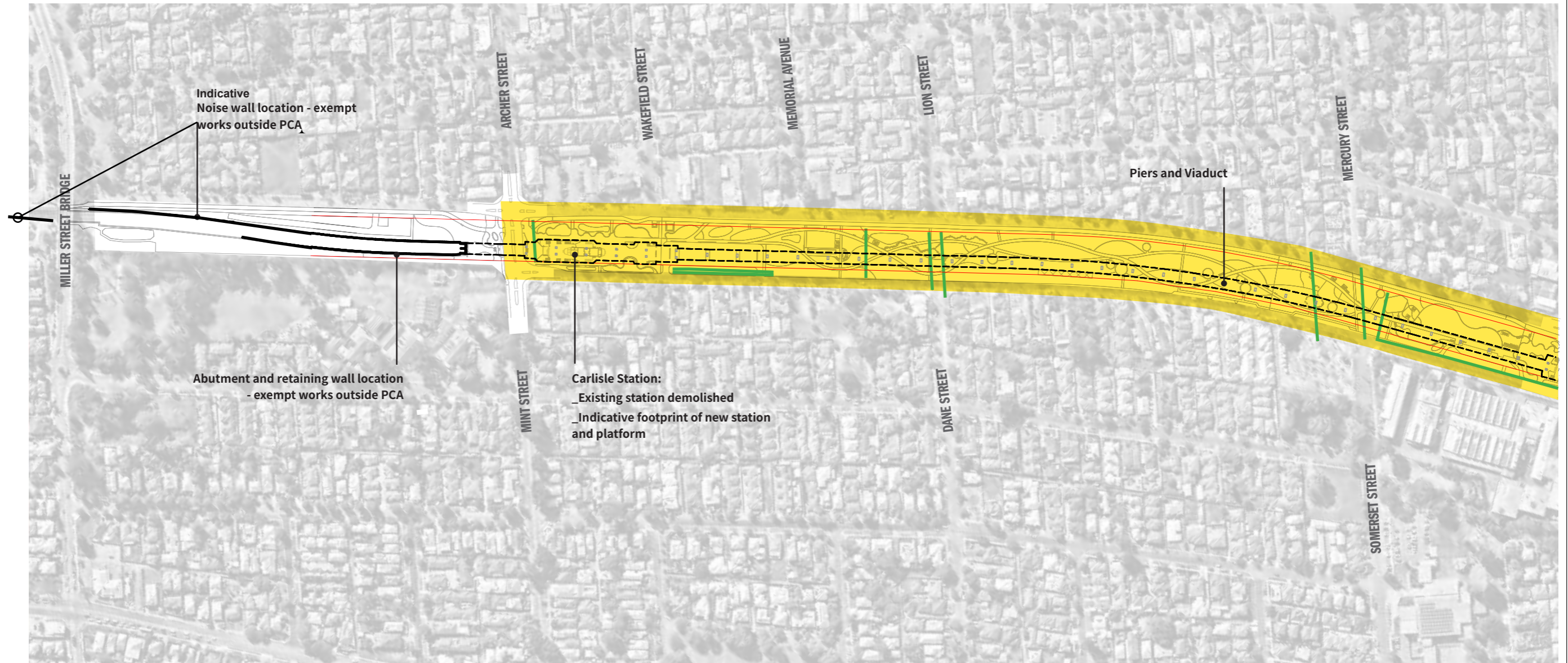


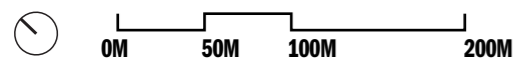
## **Appendix F – Civil Structures and Viaduct Drawings (Plans, Elevations, Typical Sections)**

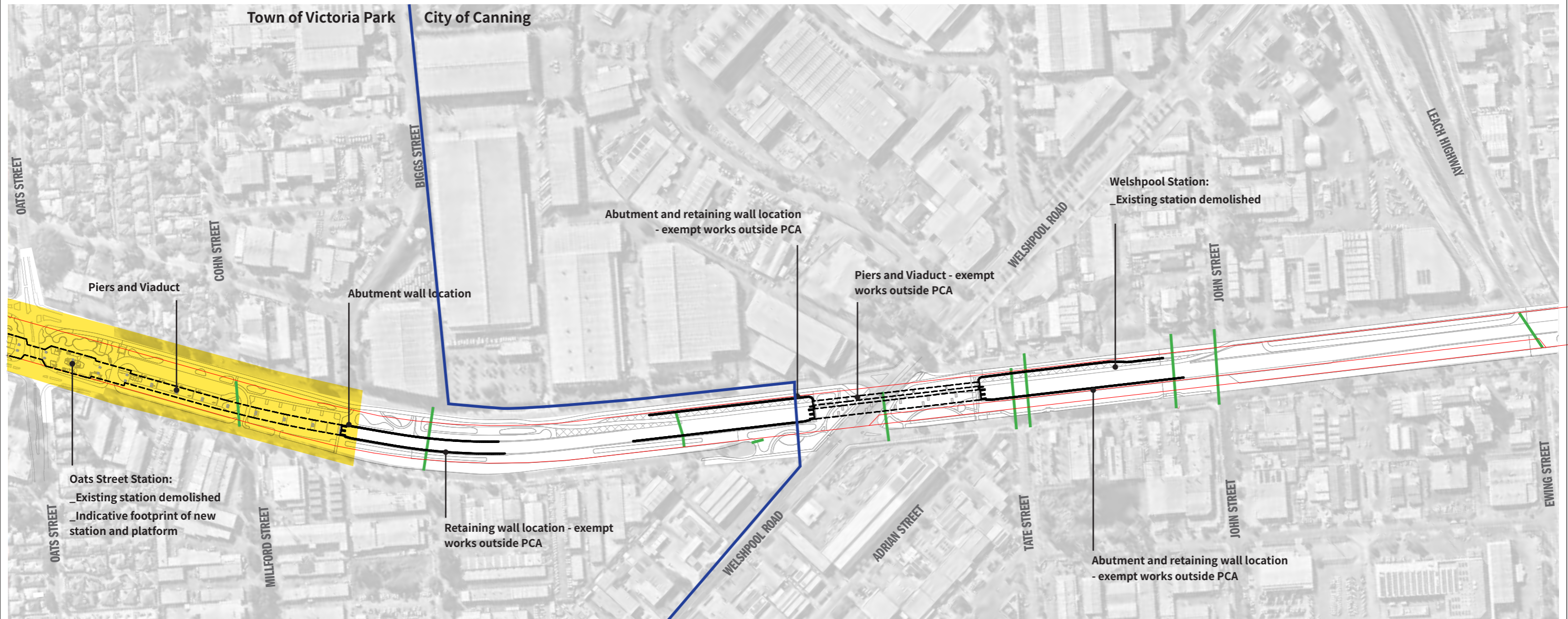
# DA1 MASTER PLAN

## Oats Street Package



- Planning Control Area (PCA)
- LGA Boundary
- Rail Corridor Boundary
- Services requiring relocation (indicative only)

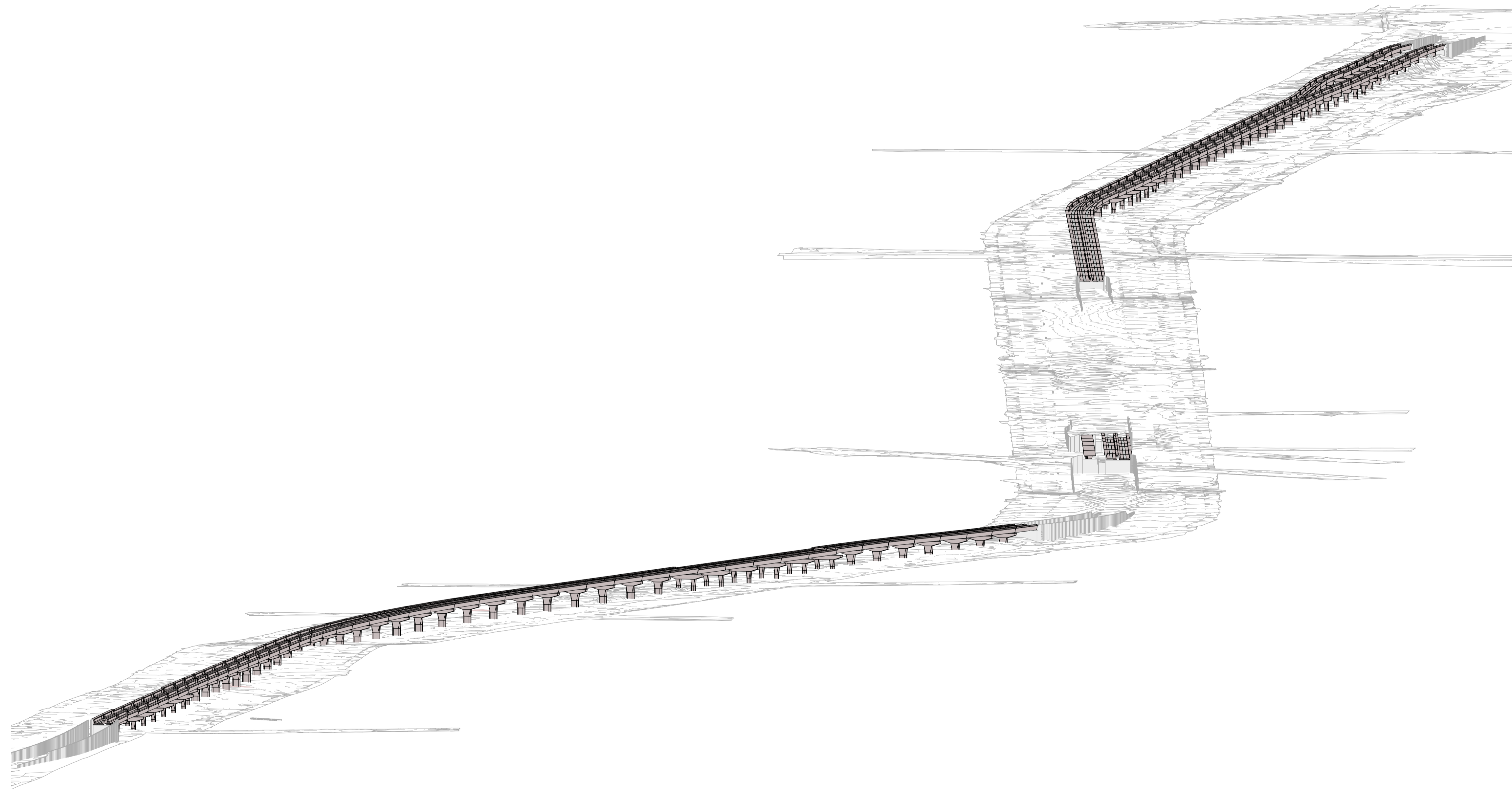






Government of **Western Australia**  
Public Transport Authority

VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL  
ZONE 0 - CIVIL STRUCTURES  
PROJECT WIDE - VIADUCT



**REFERENCE DESIGN**

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Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00001

VALIDATION
SIGNATURE
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DATE APPROVED

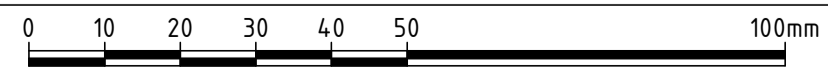
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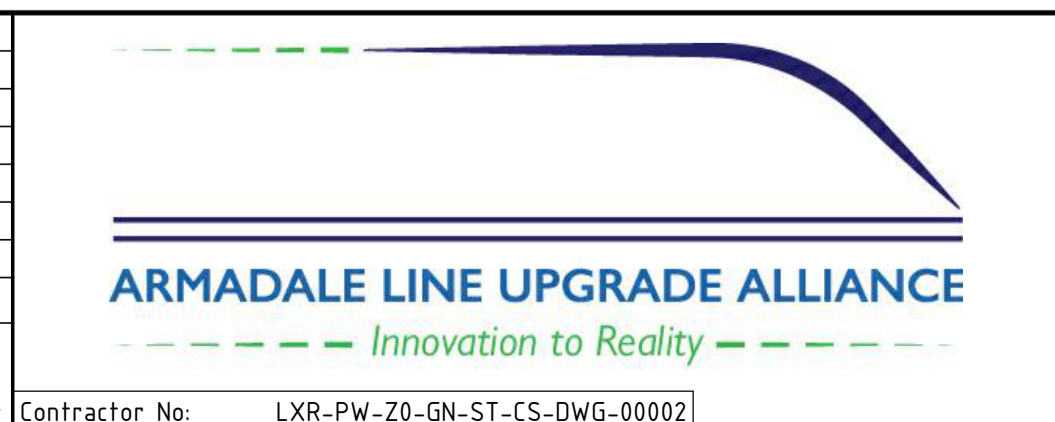
SCALE
DATUM
HORIZONTAL: PCG20
VERTICAL: AHD71

DESIGNED	C.CHANG
DRAWN	L.RADICI
CHECKED	R.PEYILA
APPROVED	W.SCHWARZ
DATE	21.06.2022

	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
ZONE 0 - CIVIL STRUCTURES PROJECT WIDE - VIADUCT COVER SHEET	
PTA Drawing No: 04-S-169-0001	Rev: A

DRAWING LIST			
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A	LXR-PW-Z0-GN-ST-CS-DWG-00002	04-S-169-0002	PROJECT WIDE - VIADUCT - DRAWING INDEX - SHEET 1
A	LXR-PW-Z0-GN-ST-CS-DWG-00005	04-S-169-0004	PROJECT WIDE - VIADUCT - LOCALITY PLAN - SHEET 1
A	LXR-PW-Z0-GN-ST-CS-DWG-00101	04-S-169-0009	PROJECT WIDE - VIADUCT - PLAN AND ELEVATION - SHEET 1
A	LXR-PW-Z0-GN-ST-CS-DWG-00102	04-S-169-0010	PROJECT WIDE - VIADUCT - PLAN AND ELEVATION - SHEET 2
A	LXR-PW-Z0-GN-ST-CS-DWG-00103	04-S-169-0011	PROJECT WIDE - VIADUCT - PLAN AND ELEVATION - SHEET 3
A	LXR-PW-Z0-GN-ST-CS-DWG-00104	04-S-169-0012	PROJECT WIDE - VIADUCT - PLAN AND ELEVATION - SHEET 4
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SCALE	DESIGNED	C.CHANG
DATUM	DRAWN	L.RADICI
HORIZONTAL: PCG20	CHECKED	R.PEYILA
VERTICAL: AHD71	APPROVED	W.SCHWARZ
	DATE	21.06.2022

PTA Drawing No:	04-S-169-0002	Rev:	A
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<b>ZONE 0 - CIVIL STRUCTURES</b> PROJECT WIDE - VIADUCT DRAWING INDEX - SHEET 1	
PTA Drawing No:	04-S-169-0002
Rev:	A

PERTH



LOCALITY PLAN  
SCALE 1 : 5000

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

ARMADALE LINE UPGRADE ALLIANCE  
Innovation to Reality

VALIDATION  
SIGNATURE  
DATE  
DATE APPROVED

REFERENCES

SCALE  
As indicated  
DATUM  
HORIZONTAL: PCG20  
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DESIGNED C.CHANG  
DRAWN L.RADICI  
CHECKED R.PEYILA  
APPROVED W.SCHWARZ  
DATE 12.05.2022

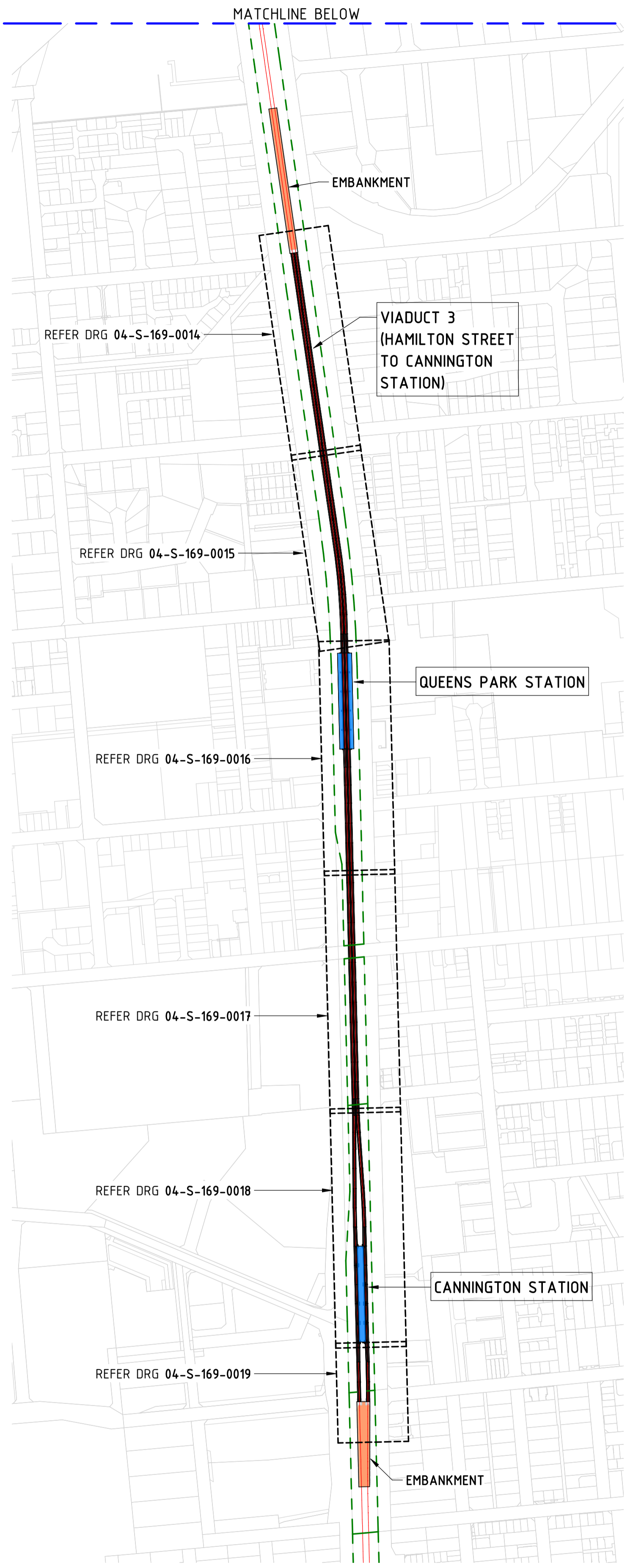
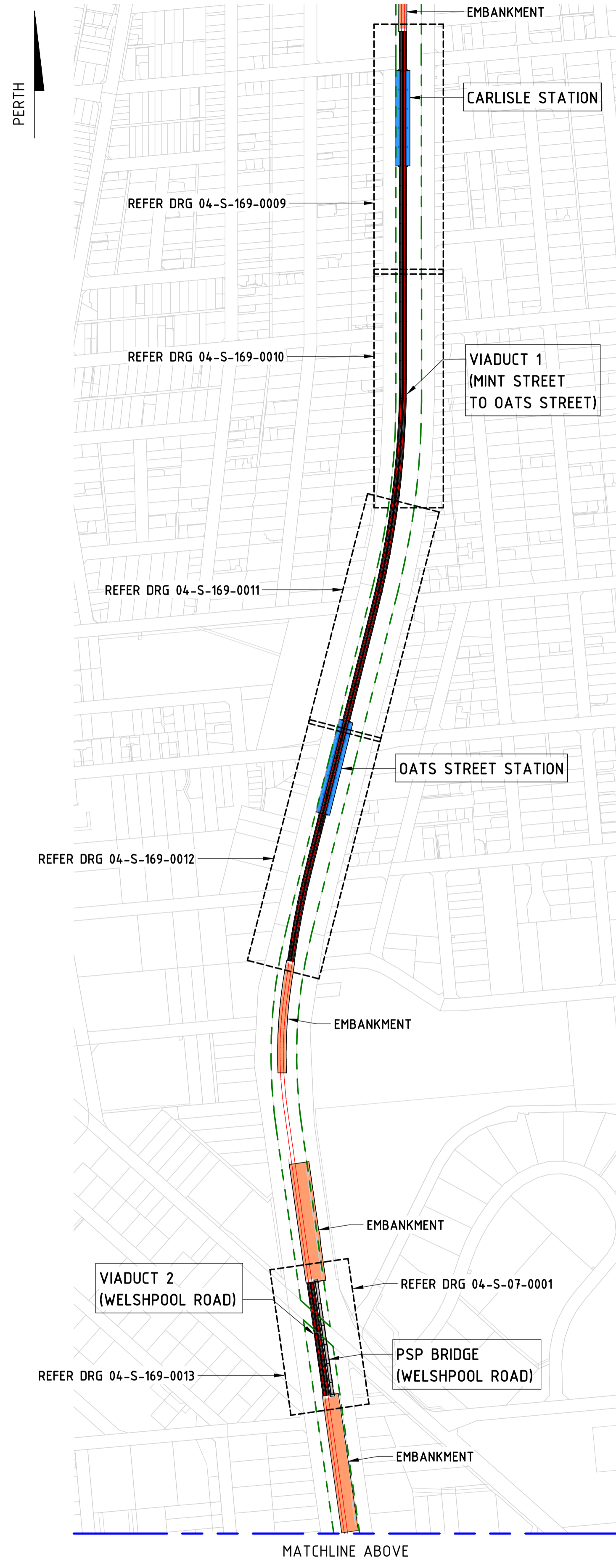
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Government of Western Australia  
Public Transport Authority

VICTORIA PARK TO CANNING  
LEVEL CROSSING REMOVAL

PROJECT WIDE - CIVIL STRUCTURES  
VIADUCT  
LOCALITY PLAN  
PTA Drawing No: 00004

Rev: A01

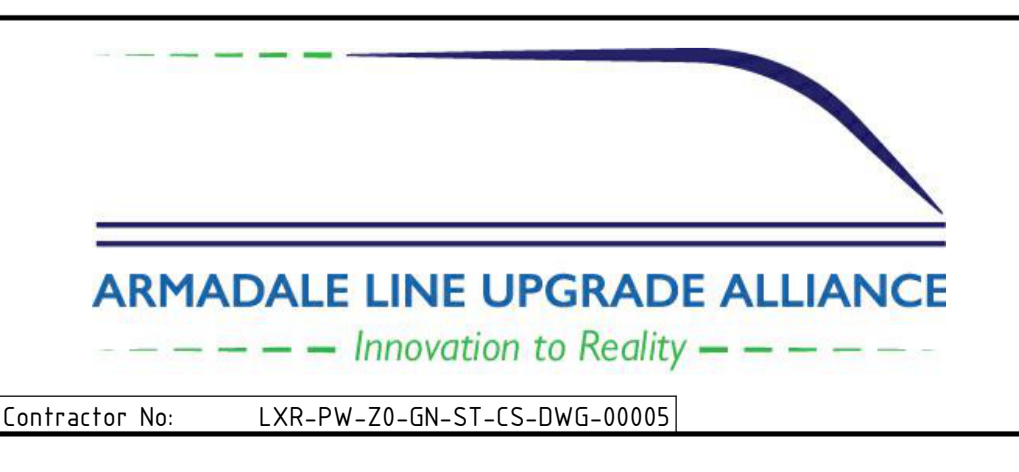


**LOCALITY PLAN**  
SCALE 1 : 5000

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

<b>REFERENCE DESIGN</b>	
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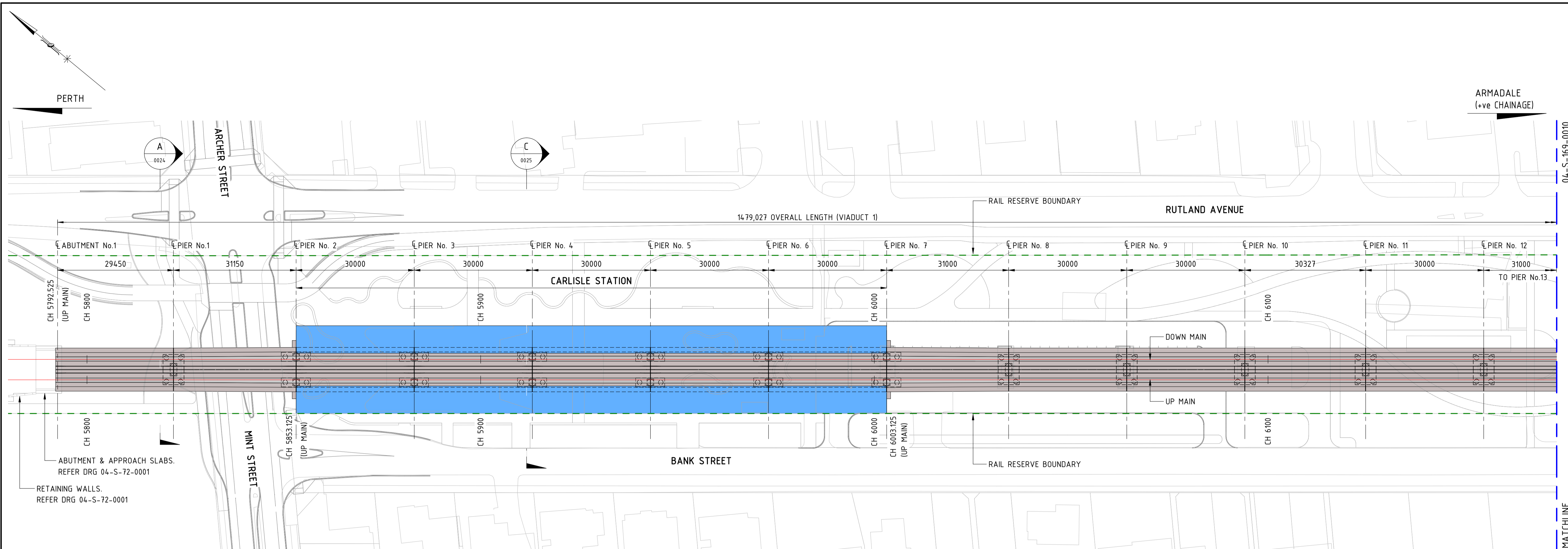


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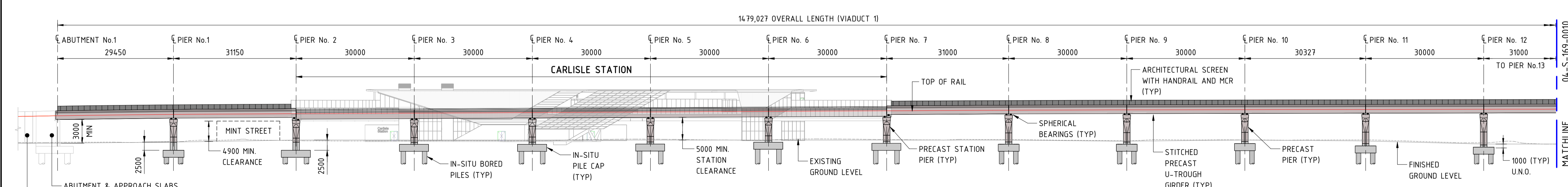
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DESIGNED C.CHANG  
DRAWN L.RADICI  
CHECKED R.PEYILA  
APPROVED W.SCHWARZ  
DATE 21.06.2022

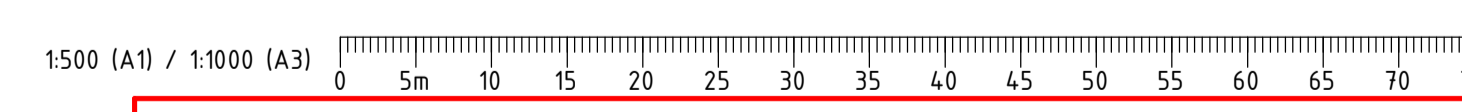


**VIADUCT 1 PLAN - MINT STREET TO OATS STREET**  
SCALE 1 : 500



**VIADUCT 1 ELEVATION - MINT STREET TO OATS STREET**  
SCALE 1 : 500

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. ALL LEVELS & CHAINAGES ARE IN METERS.
  3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
  4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
  5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
  6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.
- LEGEND:**
- VIADUCT
  - STATION PLATFORM
  - 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 - VIADUCT  
PLAN AND ELEVATION - SHEET 1  
PTA Drawing No: 04-S-169-0009

DESIGNED C.CHANG  
DRAWN L.RADICI  
CHECKED R.PEYILA  
APPROVED W.SCHWARZ  
DATE 21.06.2022

Rev: A

REV	DATE	AMENDMENT	CC	LR	RP	WS
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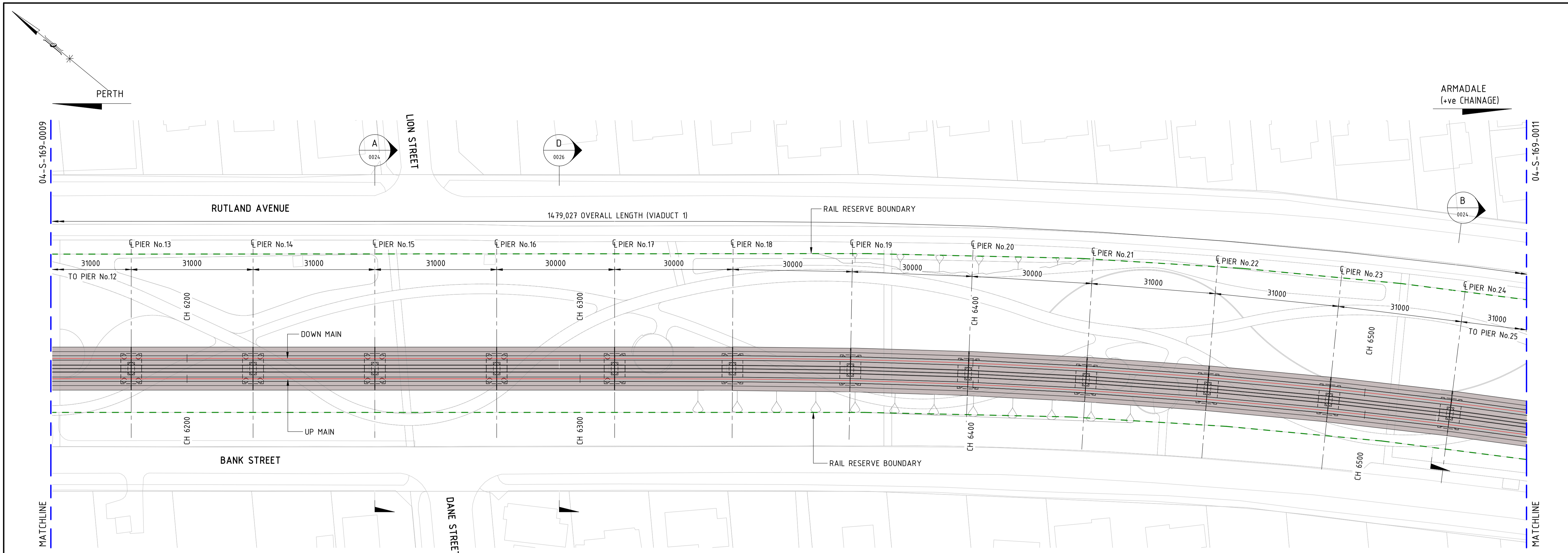
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**ARMADALE LINE UPGRADE ALLIANCE**  
Innovation to Reality

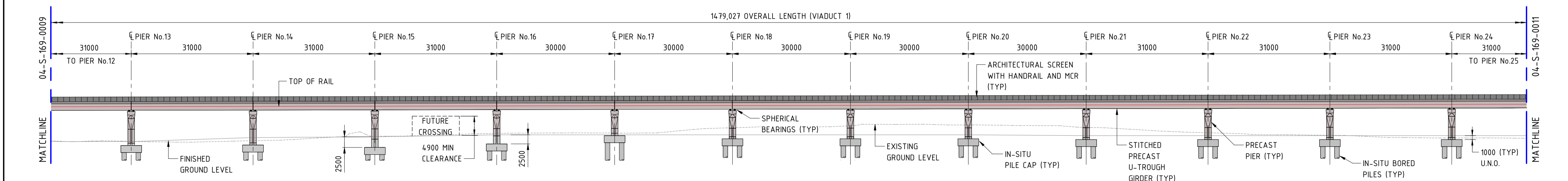
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		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
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VIADUCT 1 PLAN - MINT STREET TO OATS STREET  
SCALE 1 : 500



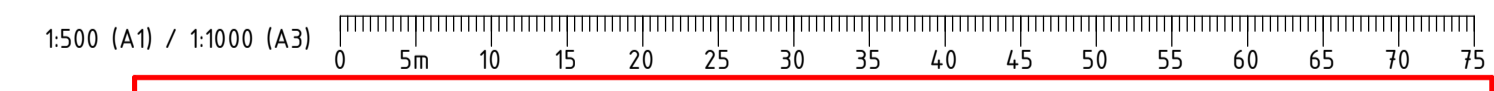
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SCALE 1 : 500

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS & CHAINAGES ARE IN METERS.
3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.

LEGEND:

- VIADUCT
- STATION PLATFORM
- RAIL ALIGNMENT
- RAIL RESERVE BOUNDARY



REFERENCE DESIGN

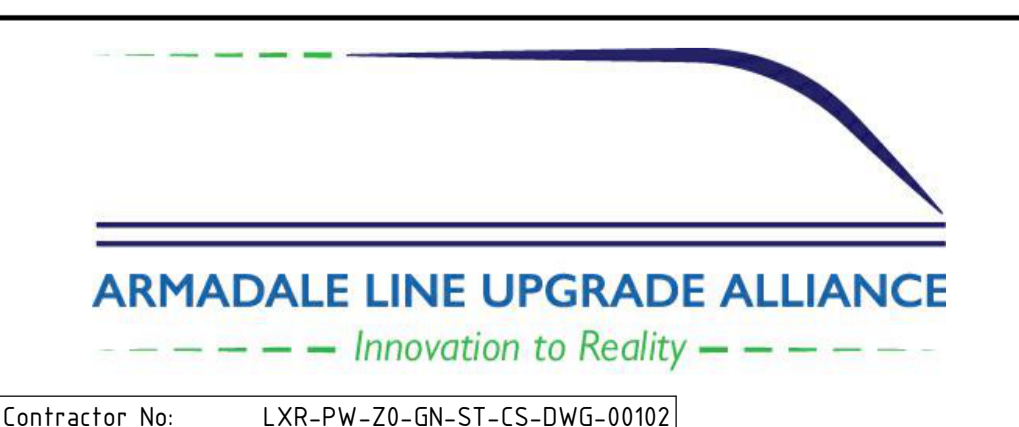
Government of Western Australia  
Public Transport Authority

VICTORIA PARK TO CANNING  
LEVEL CROSSING REMOVAL

ZONE 0 - CIVIL STRUCTURES  
PROJECT WIDE - VIADUCT  
PLAN AND ELEVATION - SHEET 2  
PTA Drawing No: 04-S-169-0010

Rev: A

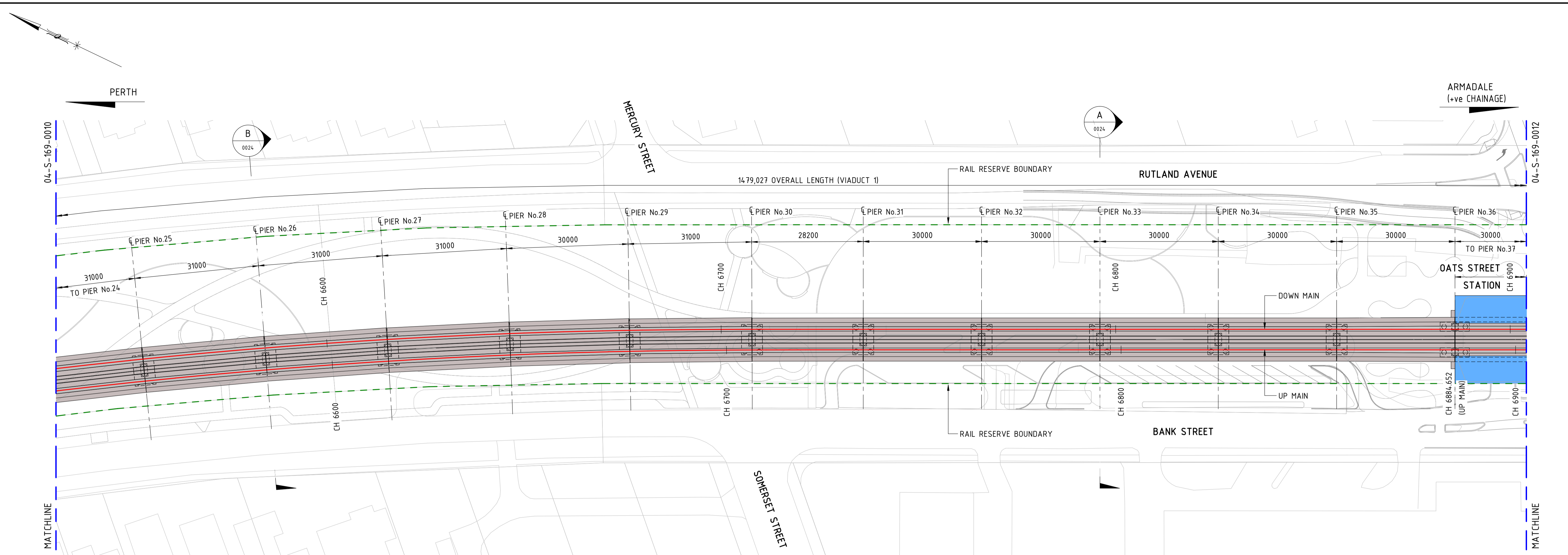
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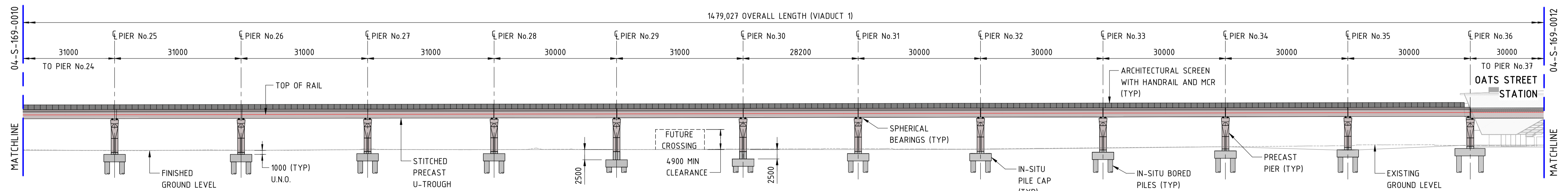
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DATUM  
HORIZONTAL: PCG20  
VERTICAL: AHD71

DESIGNED C.CHANG  
DRAWN L.RADICI  
CHECKED R.PEYILA  
APPROVED W.SCHWARZ  
DATE 21.06.2022



**VIADUCT 1 PLAN - MINT STREET TO OATS STREET**  
SCALE 1 : 500



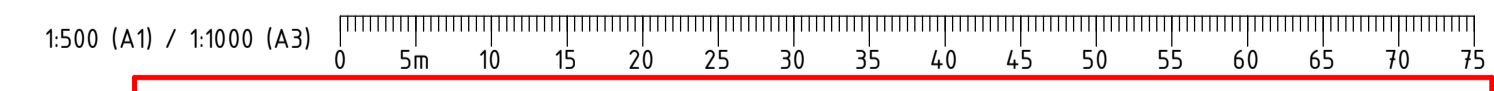
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SCALE 1 : 500

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS & CHAINAGES ARE IN METERS.
3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.

**LEGEND:**

- VIADUCT
- STATION PLATFORM
- RAIL ALIGNMENT
- RAIL RESERVE BOUNDARY



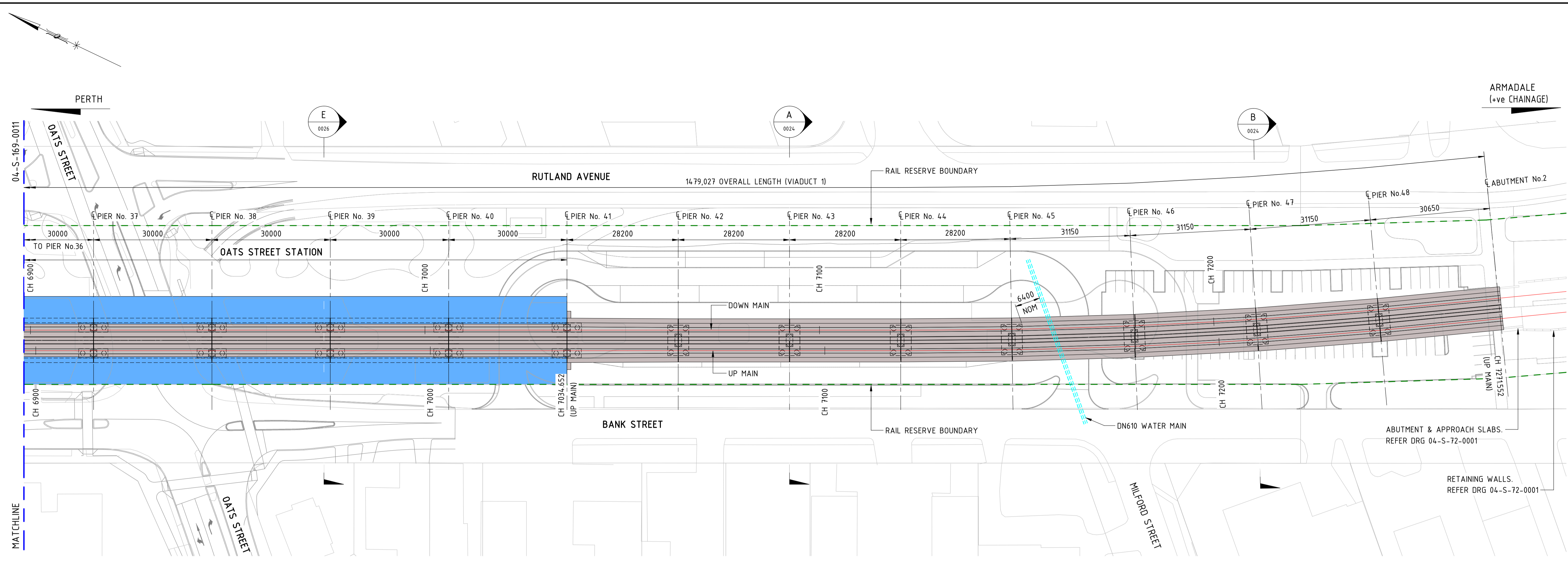
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DESIGNED: C.CHANG DRAWN: L.RADICI CHECKED: R.PEYILA APPROVED: W.SCHWARZ DATE: 21.06.2022	Rev: <b>A</b>

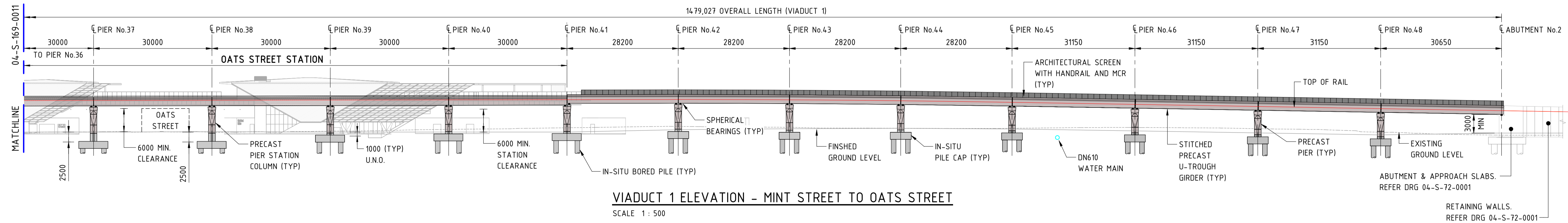
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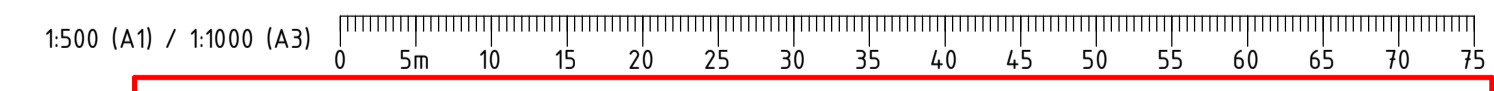


**VIADUCT 1 PLAN - MINT STREET TO OATS STREET**  
SCALE 1 : 500



**VIADUCT 1 ELEVATION - MINT STREET TO OATS STREET**  
SCALE 1 : 500

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. ALL LEVELS & CHAINAGES ARE IN METERS.
  3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
  4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
  5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
  6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.
- LEGEND:**
- VIADUCT
  - STATION PLATFORM
  - 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 - VIADUCT  
PLAN AND ELEVATION - SHEET 4  
PTA Drawing No: **04-S-169-0012** Rev: **A**

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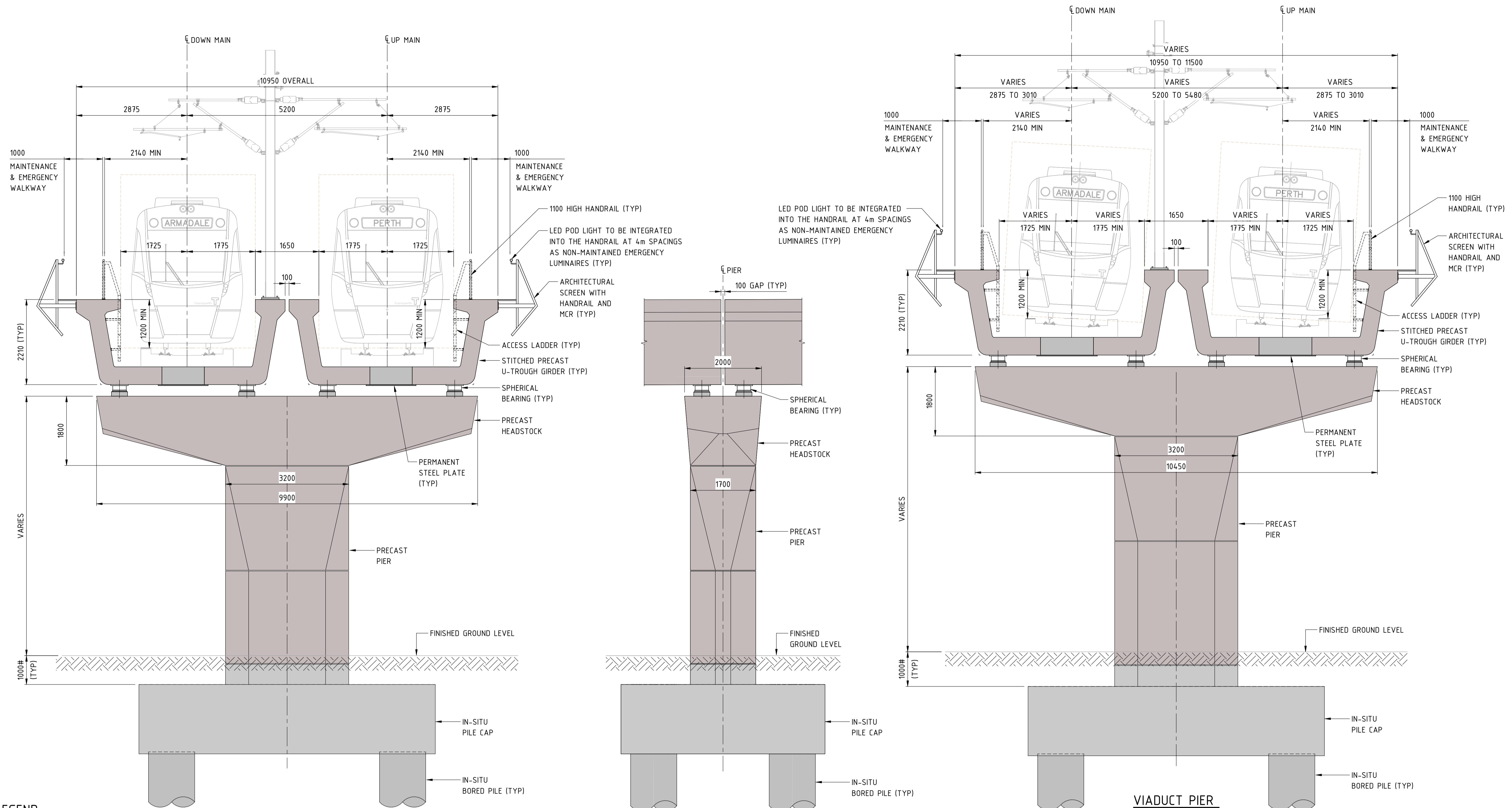
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**ARMADALE LINE UPGRADE ALLIANCE**  
*Innovation to Reality*

Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00104

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DATE		DATUM	DRAWN
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		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
			21.06.2022



**LEGEND:**  
 ■ PRECAST CONCRETE  
 ■ IN-SITU CONCRETE  
 # 2500 AT ROAD CROSSINGS

**VIADUCT PIER SECTION A**  
 SCALE 1 : 50  
 0010, 0011, 0012, 0014, 0015, 0016 & 0017

**PIER ELEVATION**  
 SCALE 1 : 50

**VIADUCT PIER ON CURVED ALIGNMENT SECTION B**  
 SCALE 1 : 50  
 0010

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. ALL LEVELS & CHAINAGES ARE IN METERS.
  3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
  4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
  5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
  6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.

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**REFERENCE DESIGN**

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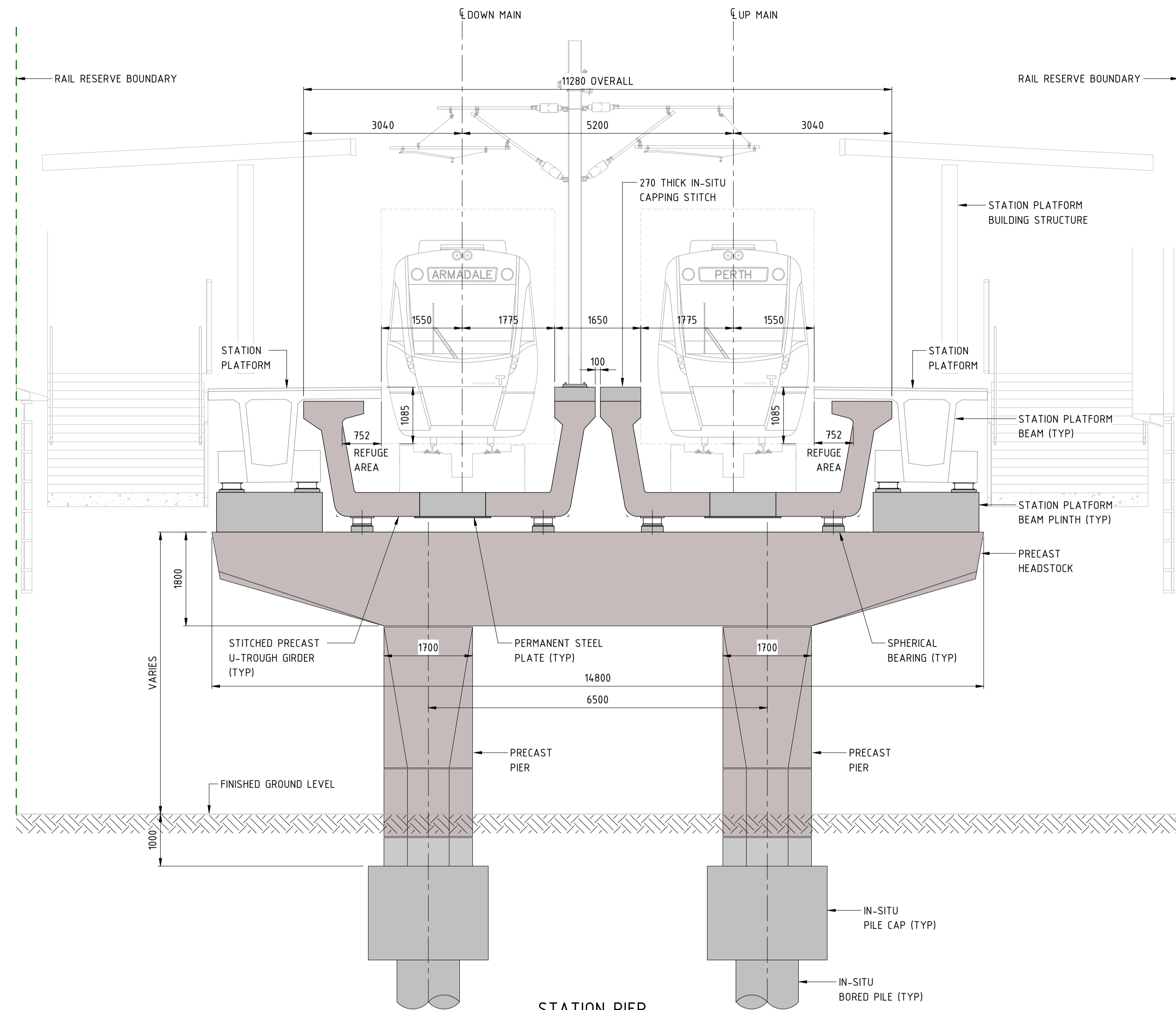
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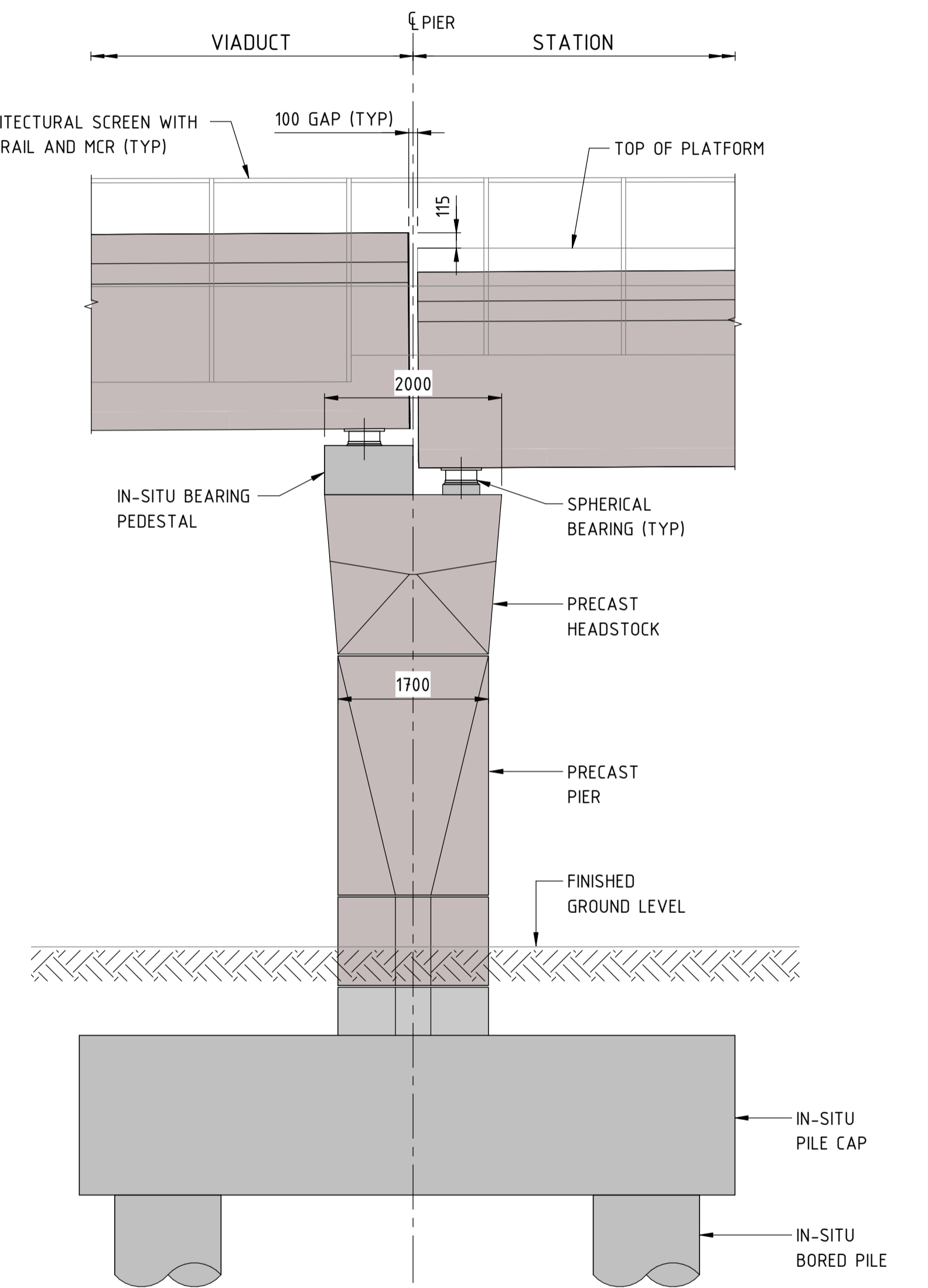
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 VERTICAL: AHD71

DESIGNED C.CHANG  
 DRAWN L.RADICI  
 CHECKED R.PEYILA  
 APPROVED W.SCHWARZ  
 DATE 21.06.2022

Government of Western Australia  
 Public Transport Authority  
 VICTORIA PARK TO CANNING  
 LEVEL CROSSING REMOVAL  
 ZONE 0 - CIVIL STRUCTURES  
 PROJECT WIDE - VIADUCT  
 SECTIONS - SHEET 1  
 PTA Drawing No: 04-S-169-0024  
 Rev: A



SECTION C  
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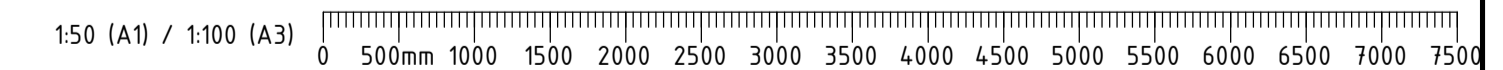
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LEGEND:

- PRECAST CONCRETE
- IN-SITU CONCRETE

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS & CHAINAGES ARE IN METERS.
3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.



**REFERENCE DESIGN**

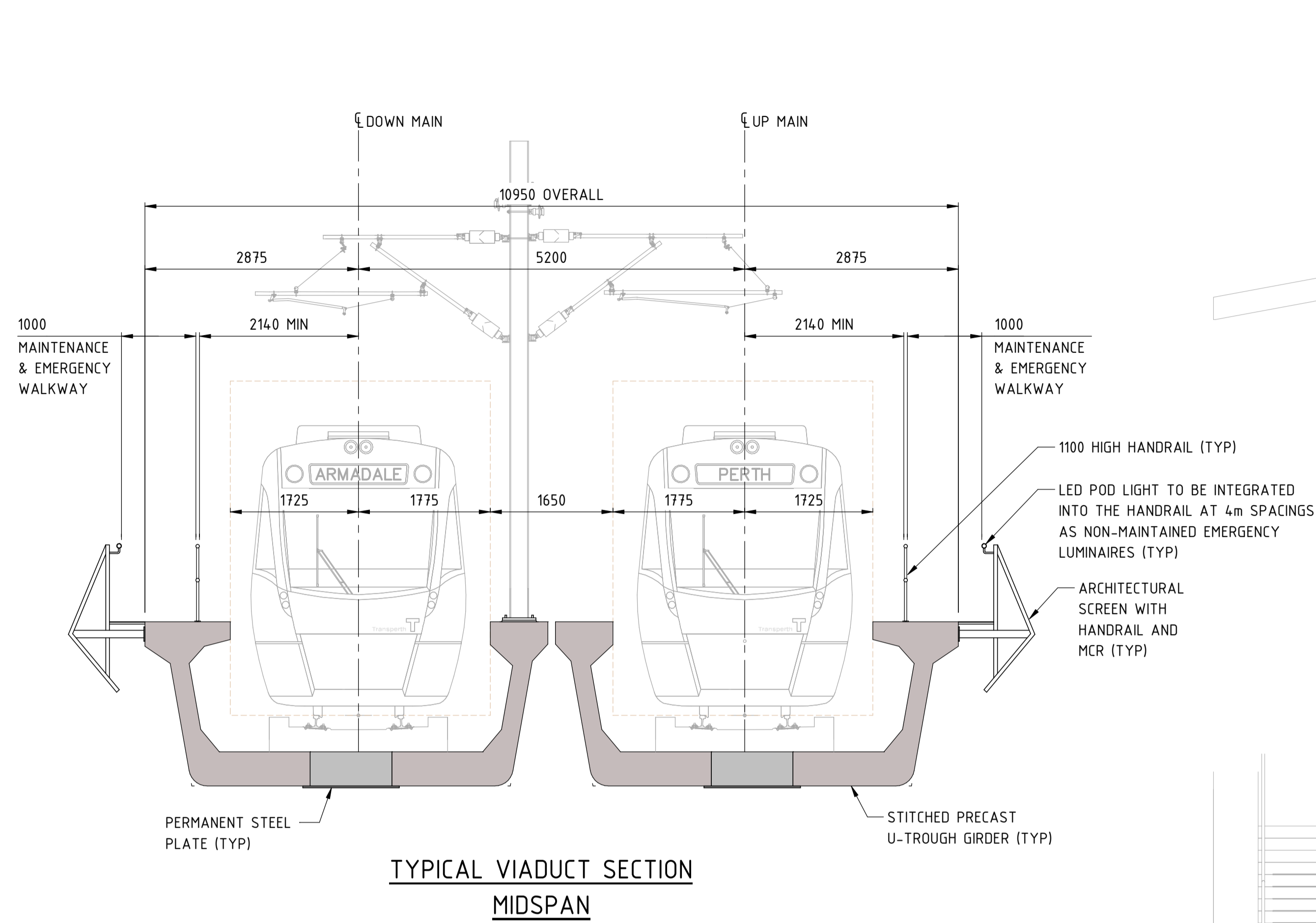
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DSN	DRN	CHK	APP			
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Contractor No: LXR-PW-Z0-GN-ST-CS-M3D-0001rvt

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

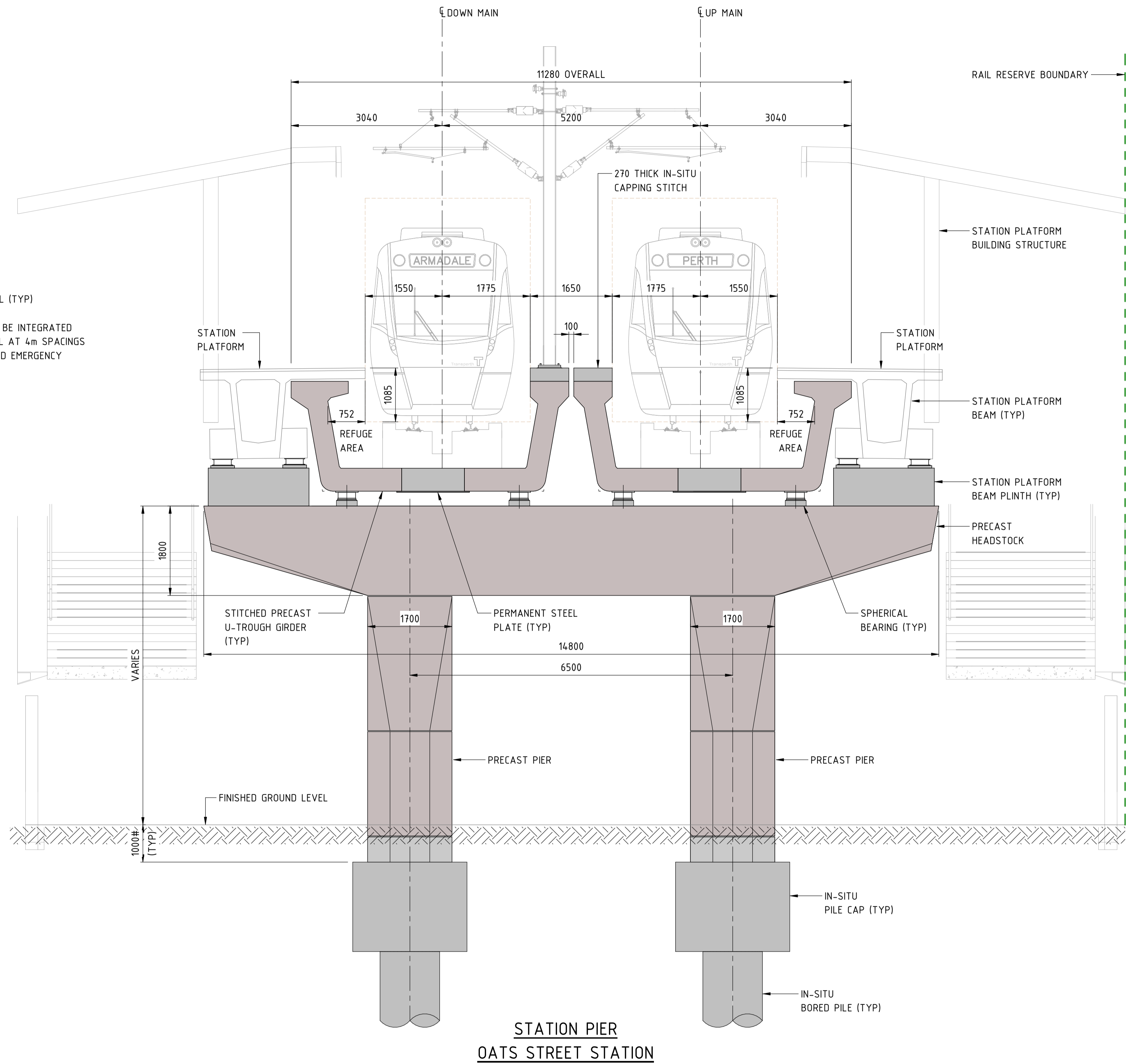
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As indicated	C.CHANG
DATUM	DRAWN
HORIZONTAL: PCG20	L.RADICI
VERTICAL: AHD71	CHECKED
	R.PEYILA
	APPROVED
	W.SCHWARZ
	DATE
	21.06.2022

		VICTORIA PARK TO CANNING
		LEVEL CROSSING REMOVAL
<b>ZONE 0 - CIVIL STRUCTURES</b>		
<b>PROJECT WIDE - VIADUCT</b>		
<b>SECTIONS - SHEET 2</b>		
PTA Drawing No: 04-S-169-0025		Rev: A



TYPICAL VIADUCT SECTION  
MIDSPAN

SECTION **D**  
SCALE 1 : 50



STATION PIER  
OATS STREET STATION

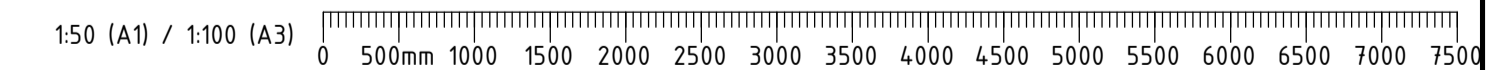
SECTION **E**  
SCALE 1 : 50

LEGEND:

- PRECAST CONCRETE
- IN-SITU CONCRETE
- # 2500 AT ROAD CROSSINGS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS & CHAINAGES ARE IN METERS.
3. REFER TO RAIL TRACK DRAWINGS FOR RAIL ALIGNMENT DETAILS.
4. REFER TO STATION ARCHITECTURE DRAWINGS FOR PLATFORM DETAILS.
5. REFER TO CIVIL DRAWINGS FOR PROPOSED ROAD LAYOUTS & BUS FACILITY DETAILS.
6. ALL SPANS ARE MEASURED ALONG THE UP MAIN CONTROL LINE.



REFERENCE DESIGN

REV	DATE	ISSUED FOR REFERENCE DESIGN	CC	LR	RP	WS	DSN	DRN	CHK	APP
A	21.06.22									
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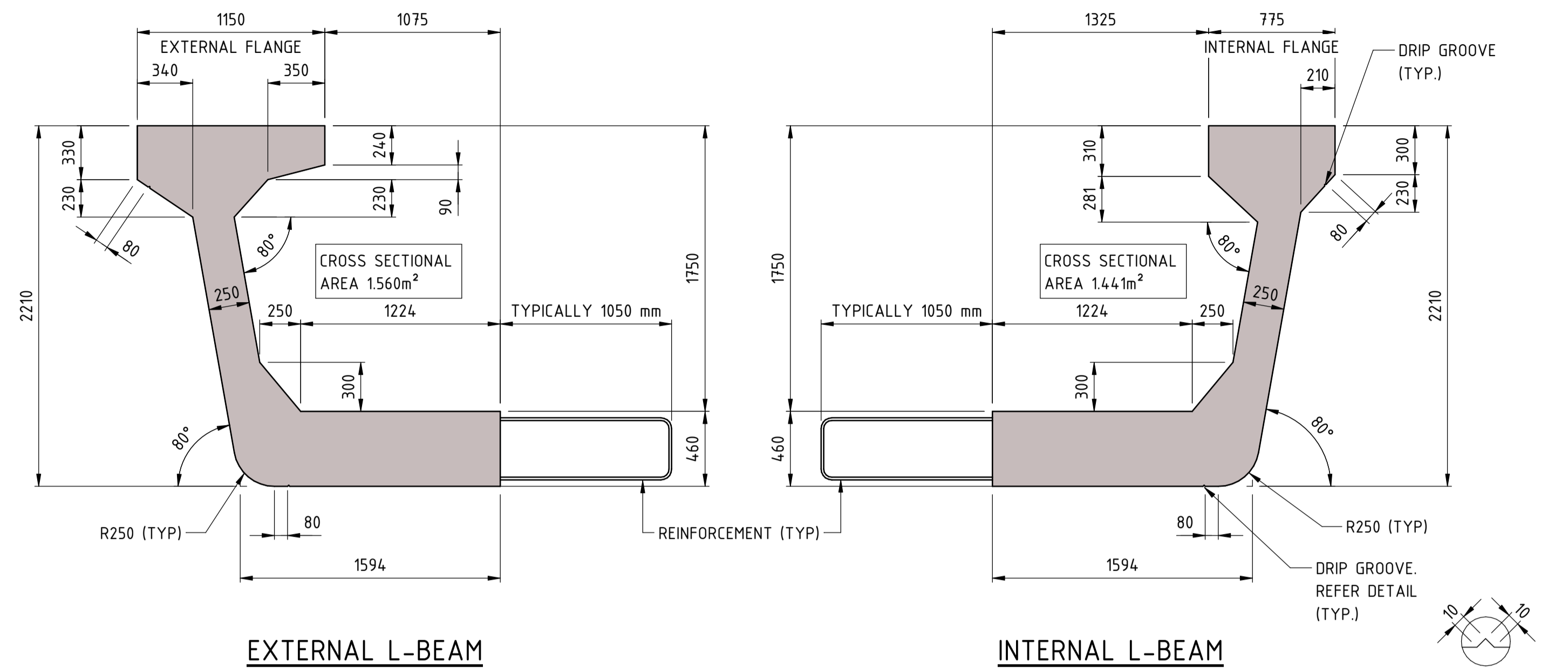
**ARMADALE LINE UPGRADE ALLIANCE**  
*Innovation to Reality*

Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00123

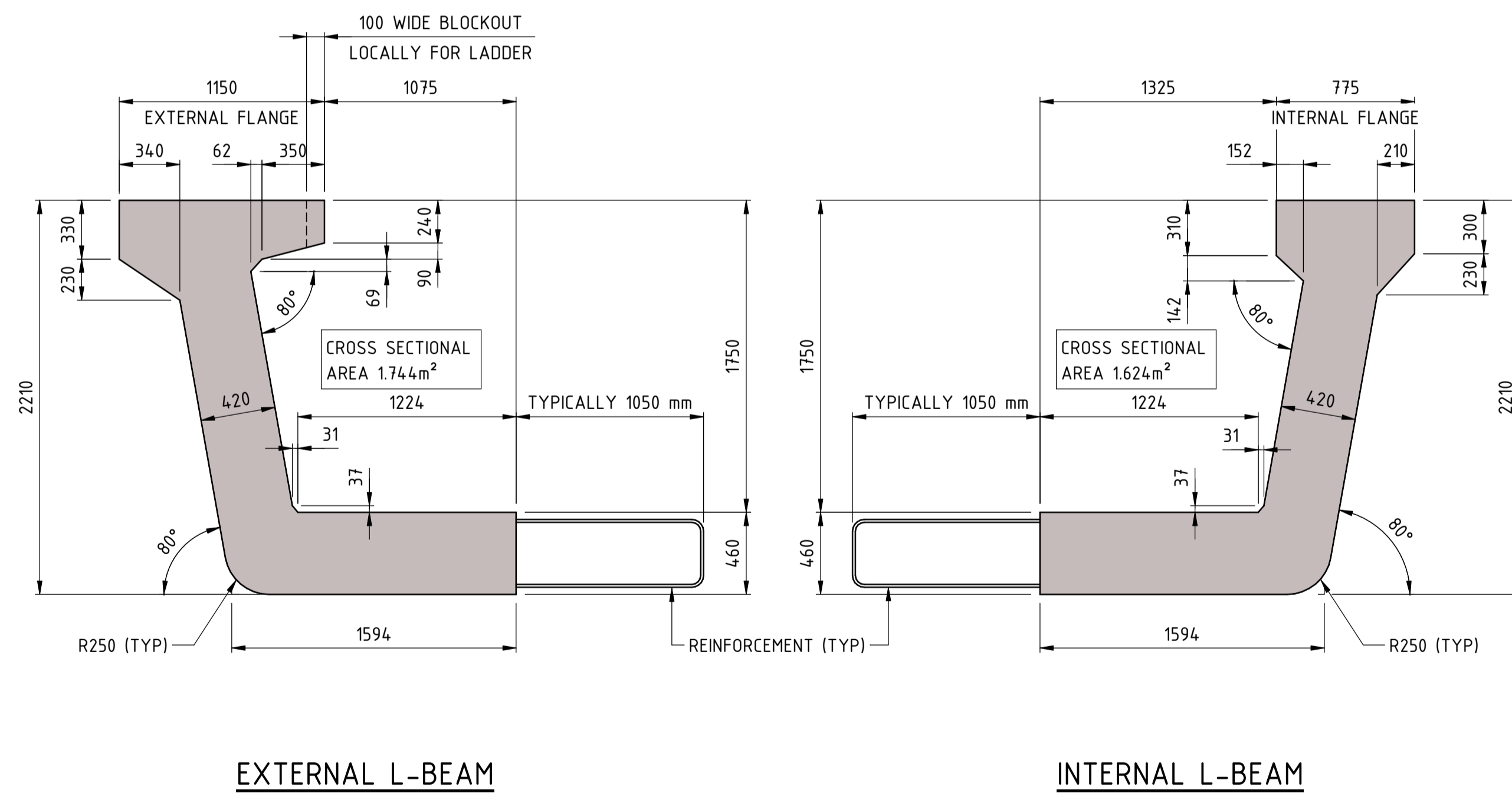
VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

SCALE	DESIGNED
As indicated	C.CHANG
DATUM	DRAWN
HORIZONTAL: PCG20	L.RADICI
VERTICAL: AHD71	CHECKED
	R.PEYILA
	APPROVED
	W.SCHWARZ
	DATE
	21.06.2022

	<p>VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL</p> <p><b>ZONE 0 - CIVIL STRUCTURES</b></p> <p>PROJECT WIDE - VIADUCT</p> <p>SECTIONS - SHEET 3</p> <p>PTA Drawing No: <b>04-S-169-0026</b></p>
	<p>Rev: <b>A</b></p>



SECTION AT MIDSPAN  
SCALE 1:25



SECTION AT DIAPHRAGM  
SCALE 1:25

1:25 (A1) / 1:50 (A3) 0 250mm 500 750 1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 3750

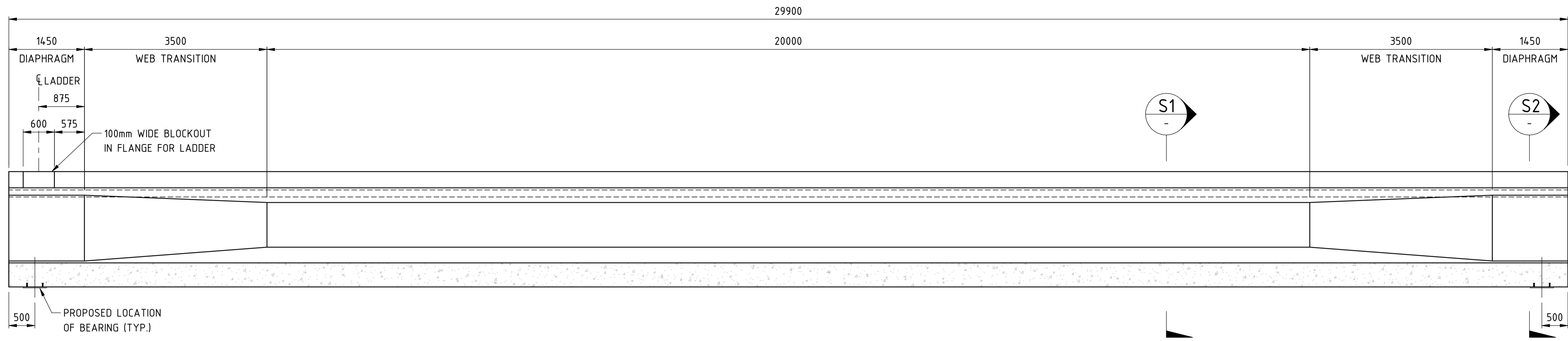
<b>FOR INFORMATION</b>	
	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
PROJECT WIDE - CIVIL STRUCTURES VIADUCT L-BEAM TYPICAL DETAILS PTA Drawing No: <b>00474</b>	
Rev: <b>A01</b>	

REV	DATE	AMENDMENT	CC	LR	RP	WS
A01	21.06.22	ISSUED FOR INFORMATION				
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A1						

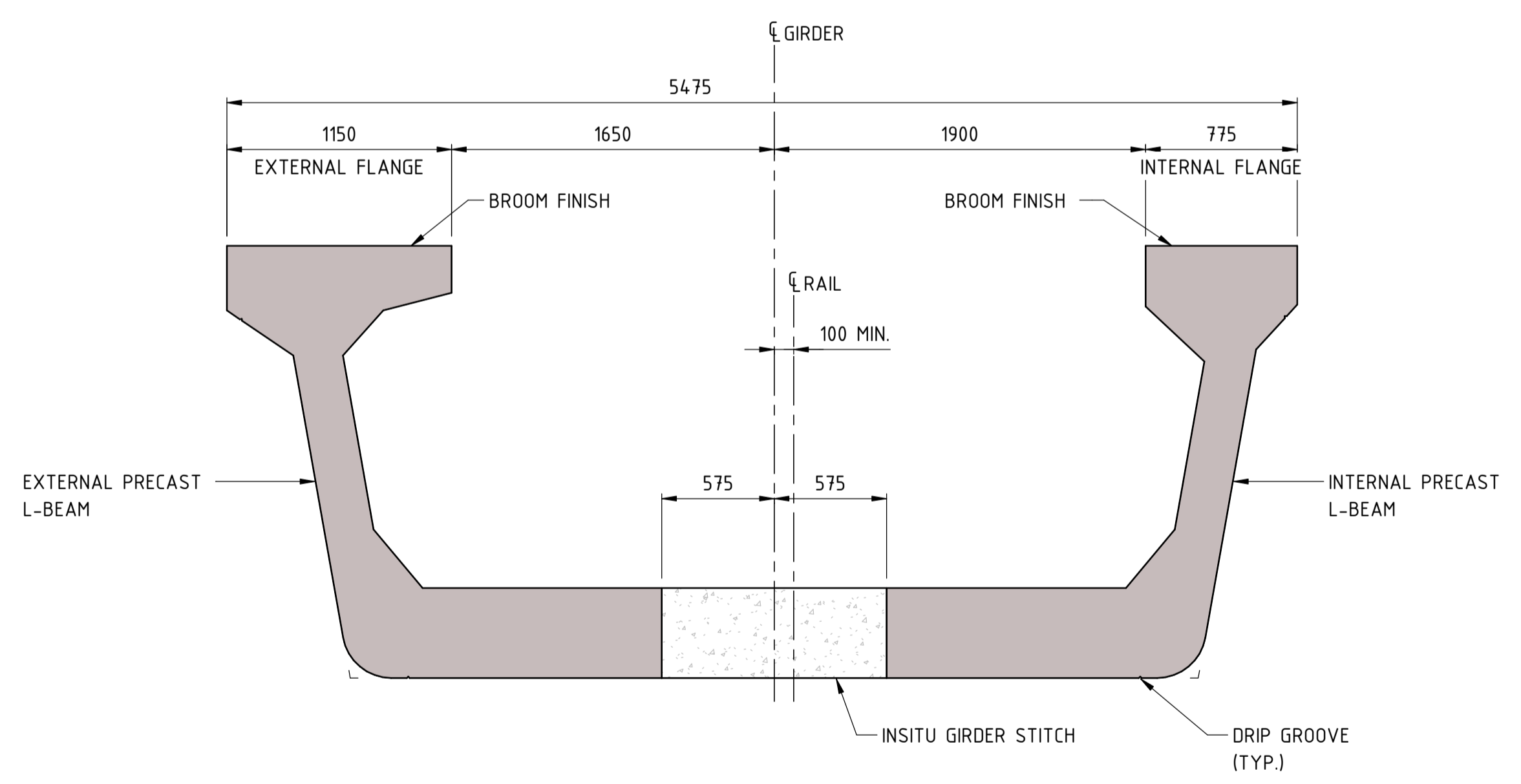
**ARMADALE LINE UPGRADE ALLIANCE**  
*Innovation to Reality*

Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00474

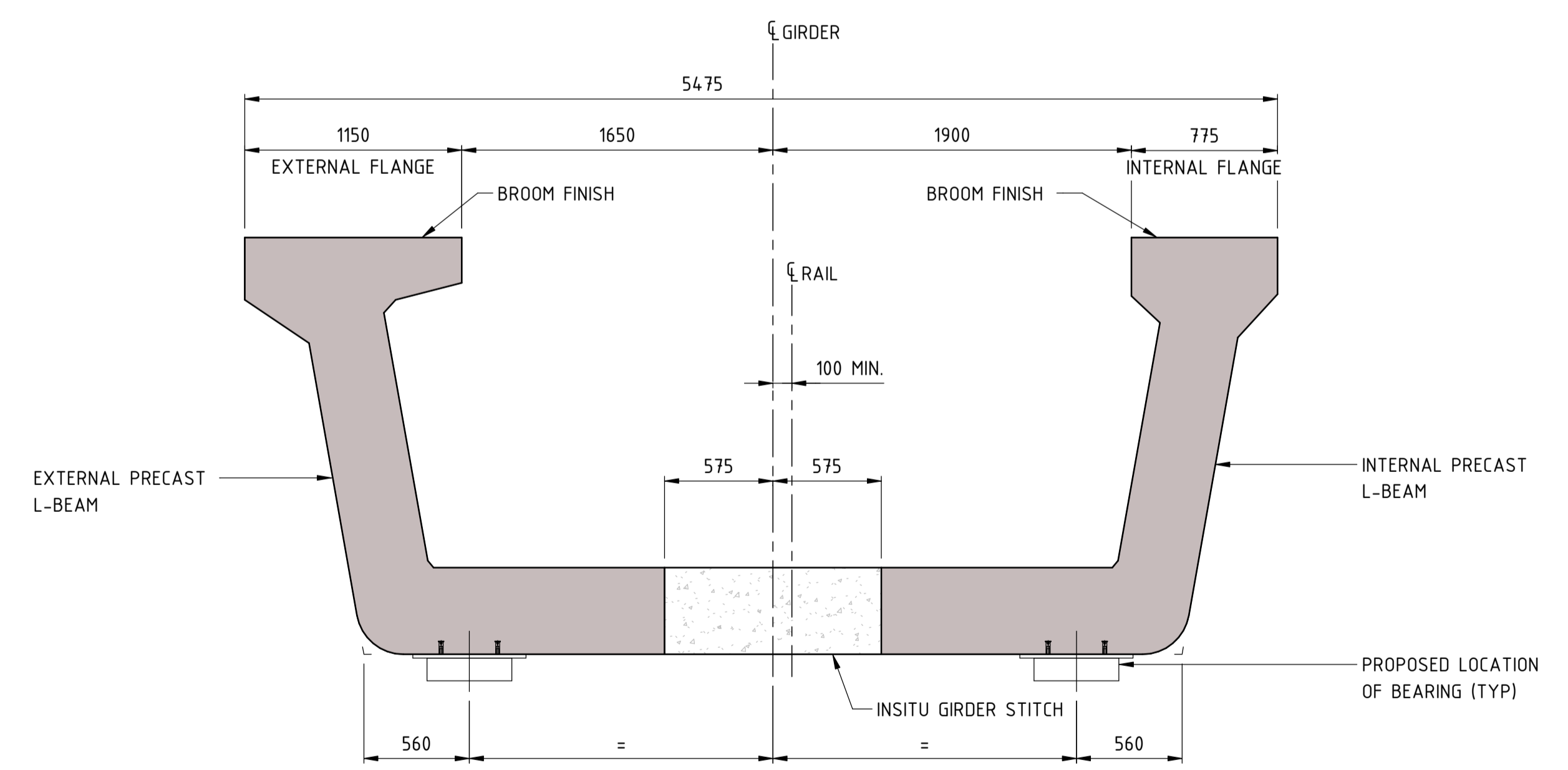
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DATE		DATUM	DRAWN
DATE APPROVED		HORIZONTAL: PCG20	L.RADICI
		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
			21.06.22



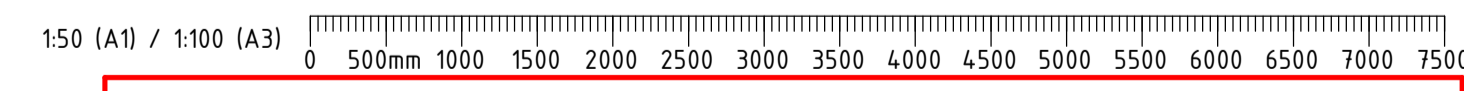
TYPICAL U-TROUGH ELEVATION - 29900  
SCALE 1 : 50



U-TROUGH AT MIDSPAN  
SECTION S1  
SCALE 1:25



U-TROUGH SECTION AT DIAPHRAGMS  
SECTION S2  
SCALE 1:25



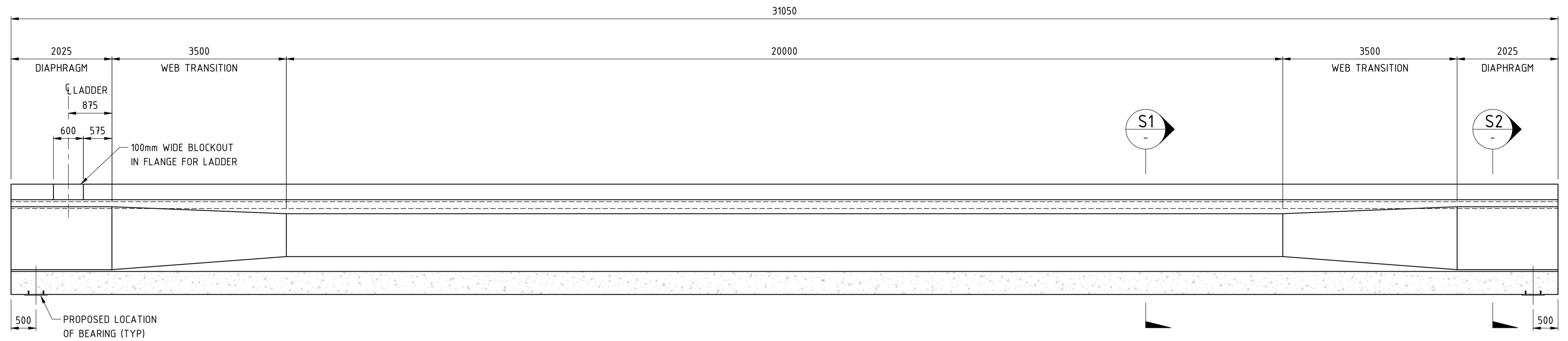
<b>FOR INFORMATION</b>	
	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
PROJECT WIDE - CIVIL STRUCTURES VIADUCT U-TROUGH TYPICAL SECTIONS - SHEET 1 PTA Drawing No: 00475	
DESIGNED C.CHANG DRAWN L.RADICI CHECKED R.PEYILA APPROVED W.SCHWARZ DATE 21.06.22	Rev: A01

REV	DATE	ISSUED FOR INFORMATION	CC	LR	RP	WS
A01	21.06.22	ISSUED FOR INFORMATION				
AMENDMENT	DSN	DRN	CHK	APP		
ORIG 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	AT ORIGINAL PLOT SIZE					

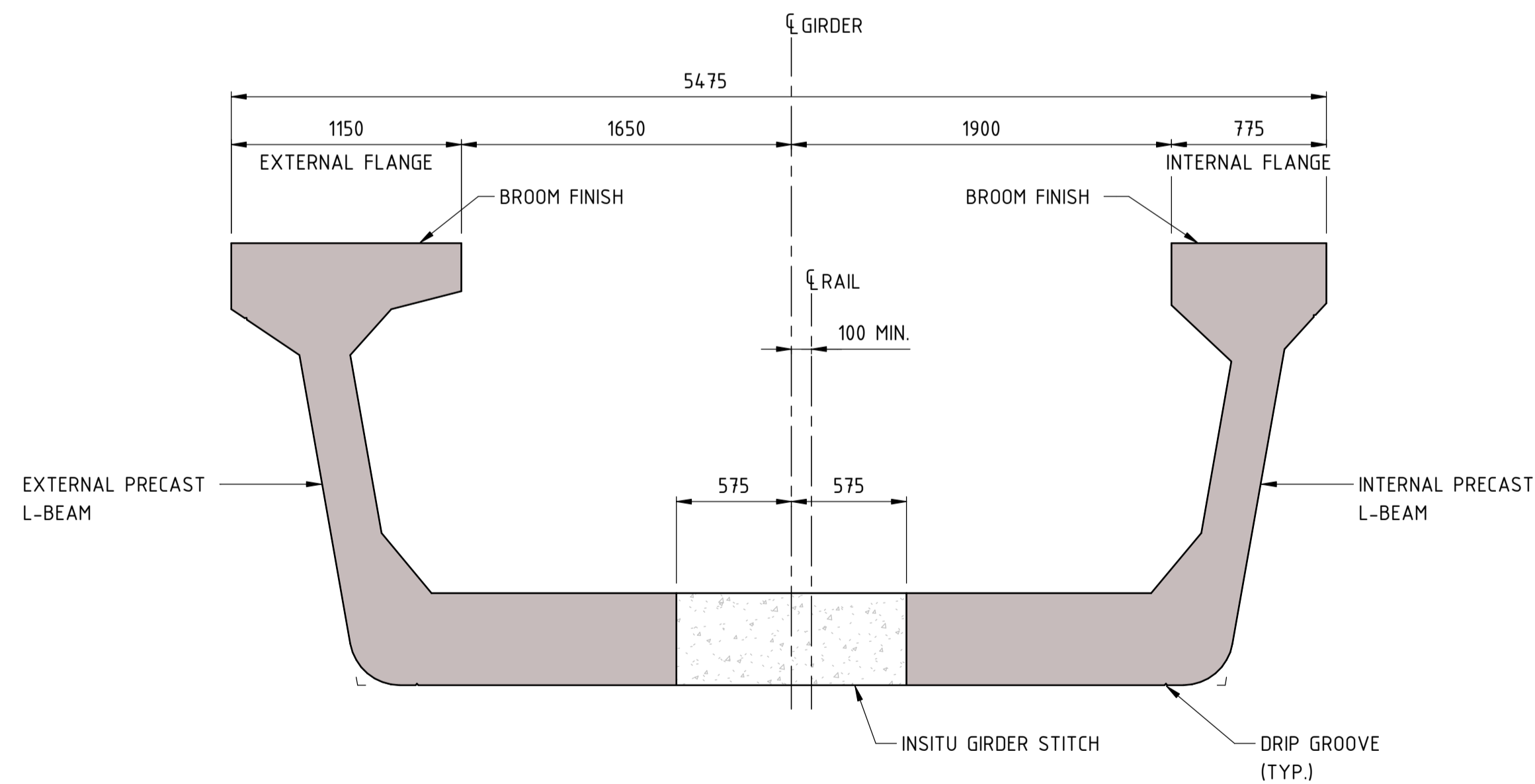
Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00475

VALIDATION	REFERENCES	SCALE	DESIGNED
SIGNATURE		As indicated	C.CHANG
DATE		DATUM	DRAWN
DATE APPROVED		HORIZONTAL: PCG20	L.RADICI
		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
			21.06.22

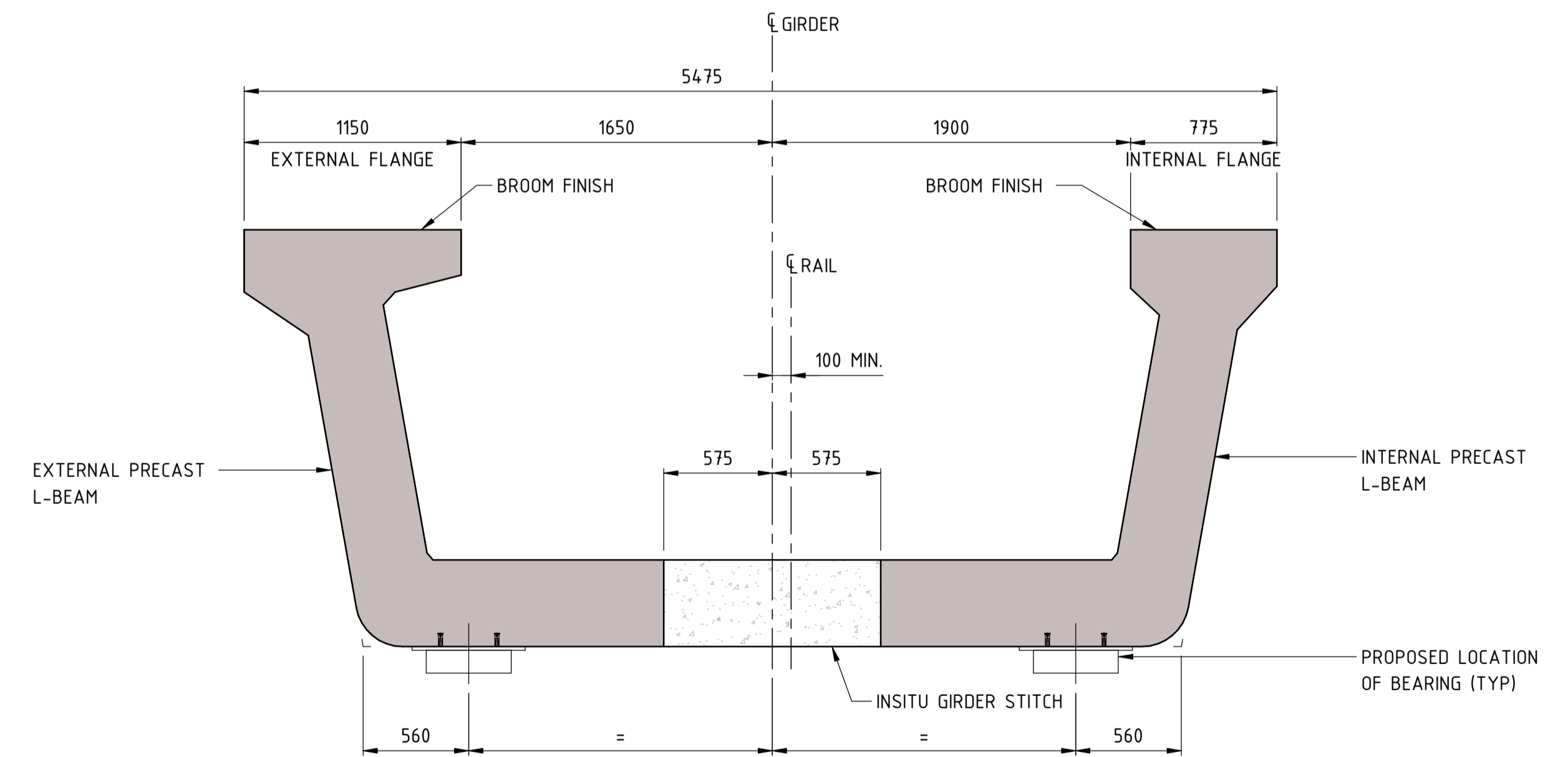




TYPICAL U-TROUGH ELEVATION - 31050  
SCALE 1 : 50



U-TROUGH AT MIDSPAN  
SECTION S1  
SCALE 1:25



U-TROUGH SECTION AT DIAPHRAGMS  
SECTION S2  
SCALE 1:25

1:50 (A1) / 1:100 (A3) 0 500mm 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500

**FOR INFORMATION**

Government of Western Australia  
Public Transport Authority

VICTORIA PARK TO CANNING  
LEVEL CROSSING REMOVAL

PROJECT WIDE - CIVIL STRUCTURES  
VIADUCT  
U-TROUGH TYPICAL SECTIONS - SHEET 2  
PTA Drawing No: 00476

Rev: A01

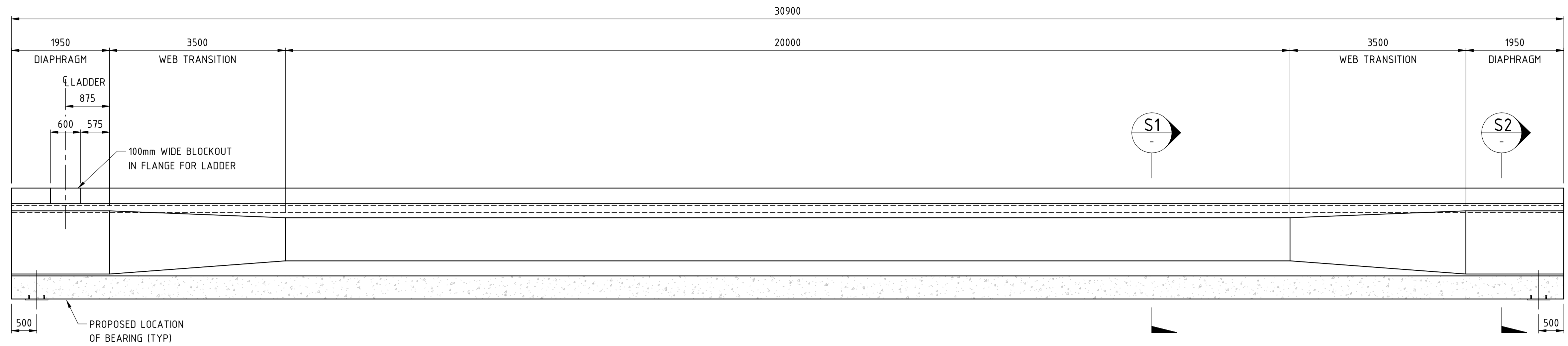
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AMENDMENT	DSN	DRN	CHK	APP		
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A1	AT ORIGINAL PLOT SIZE					

ARMADALE LINE UPGRADE ALLIANCE  
Innovation to Reality

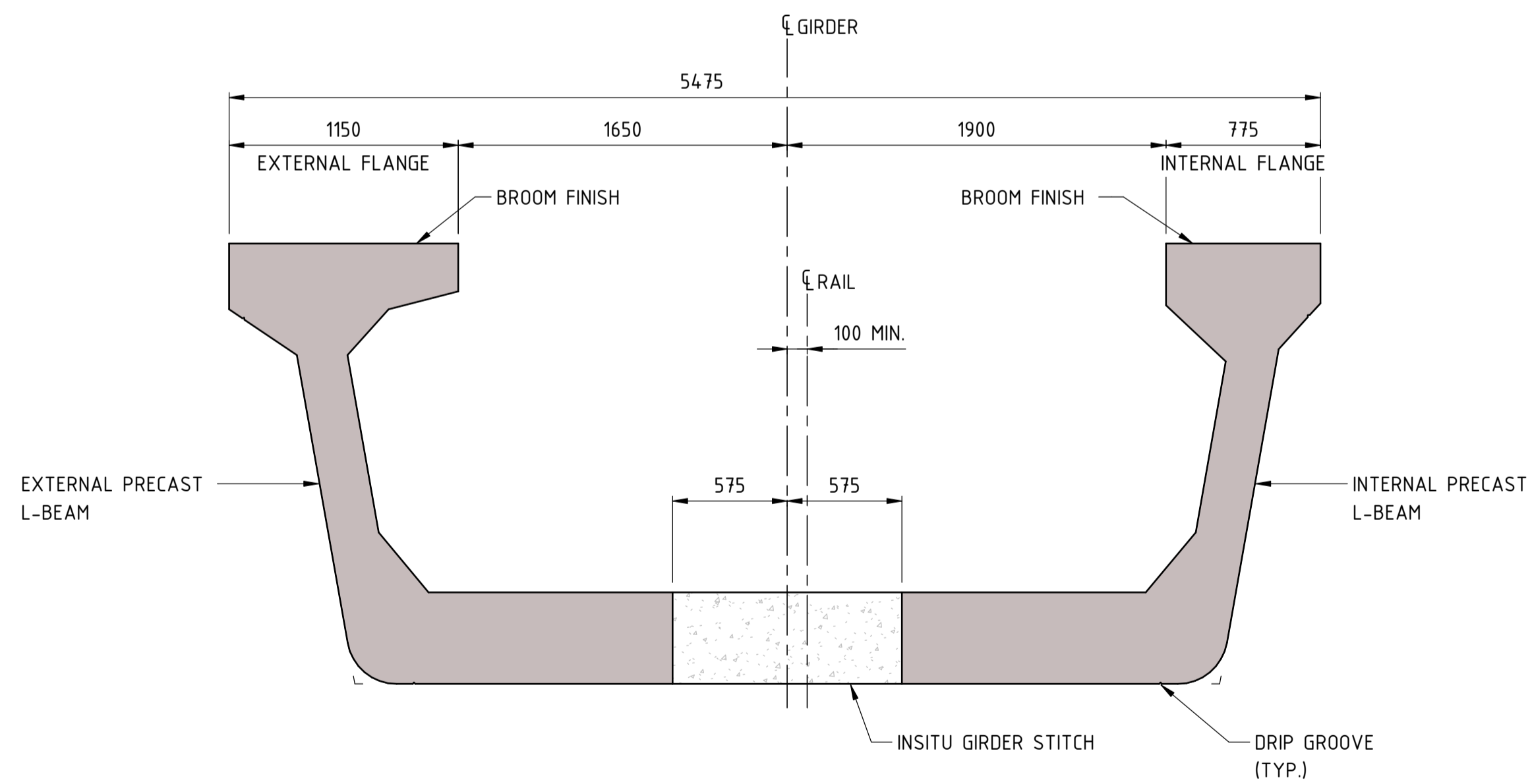
Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00476

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

SCALE	DESIGNED
As indicated	C.CHANG
DATUM	DRAWN
HORIZONTAL: PCG20	L.RADICI
VERTICAL: AHD71	CHECKED
	R.PEYILA
	APPROVED
	W.SCHWARZ
	DATE
	21.06.22

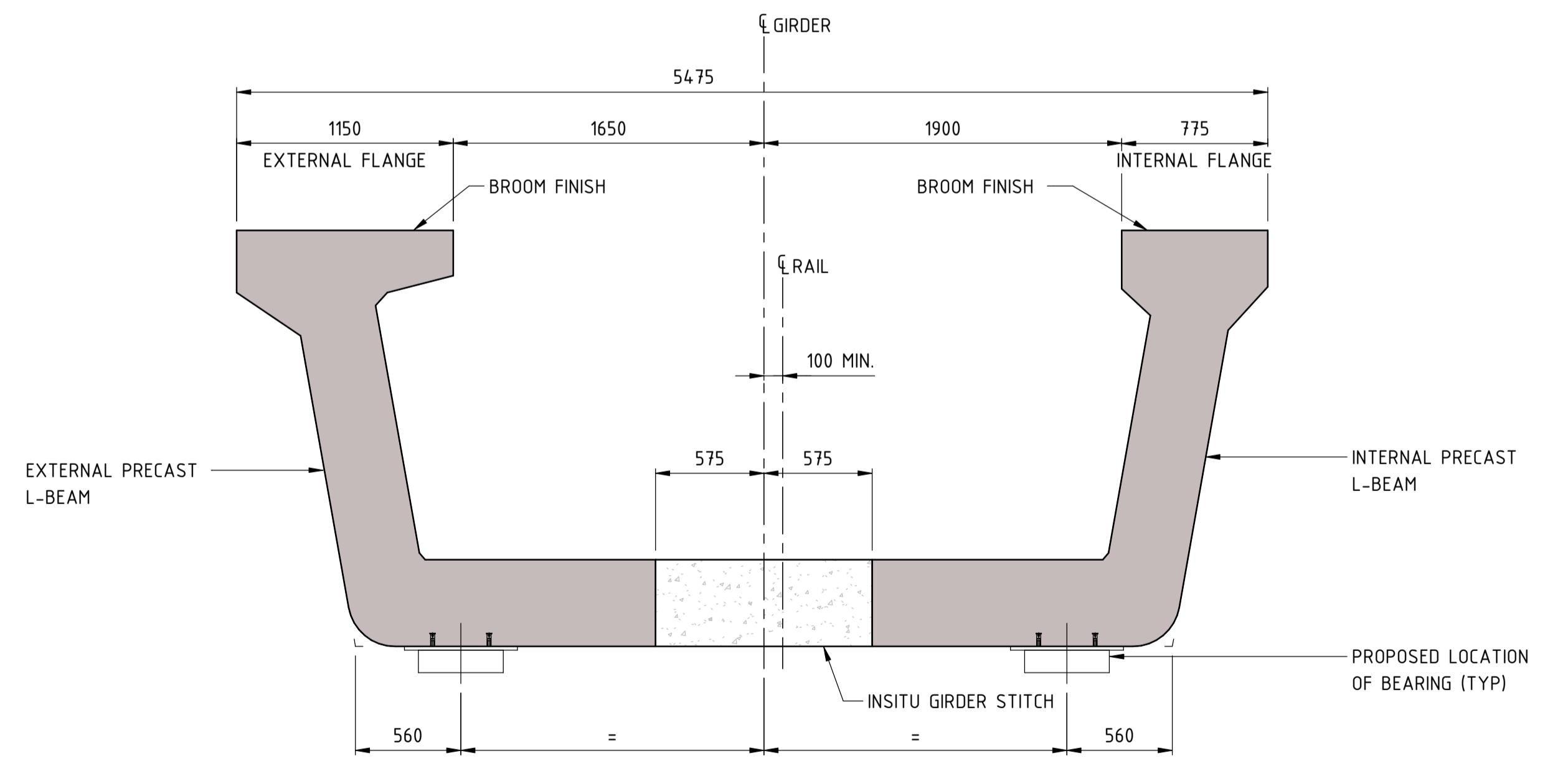


TYPICAL U-TROUGH ELEVATION - 30900  
SCALE 1 : 50



U-TROUGH AT MIDSPAN

SECTION S1  
SCALE 1:25



U-TROUGH SECTION AT DIAPHRAGMS

SECTION S2  
SCALE 1:25

1:50 (A1) / 1:100 (A3) 0 500mm 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500

**FOR INFORMATION**

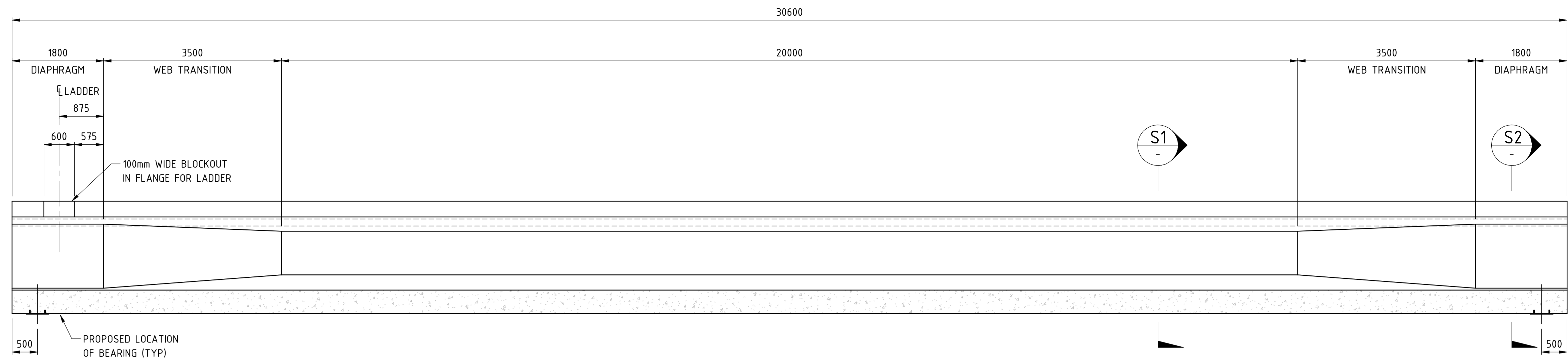
	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
	PROJECT WIDE - CIVIL STRUCTURES VIADUCT U-TROUGH TYPICAL SECTIONS - SHEET 3
PTA Drawing No: 00477	Rev: A01

REV	DATE	ISSUED FOR INFORMATION	AMENDMENT	CC	LR	RP	WS
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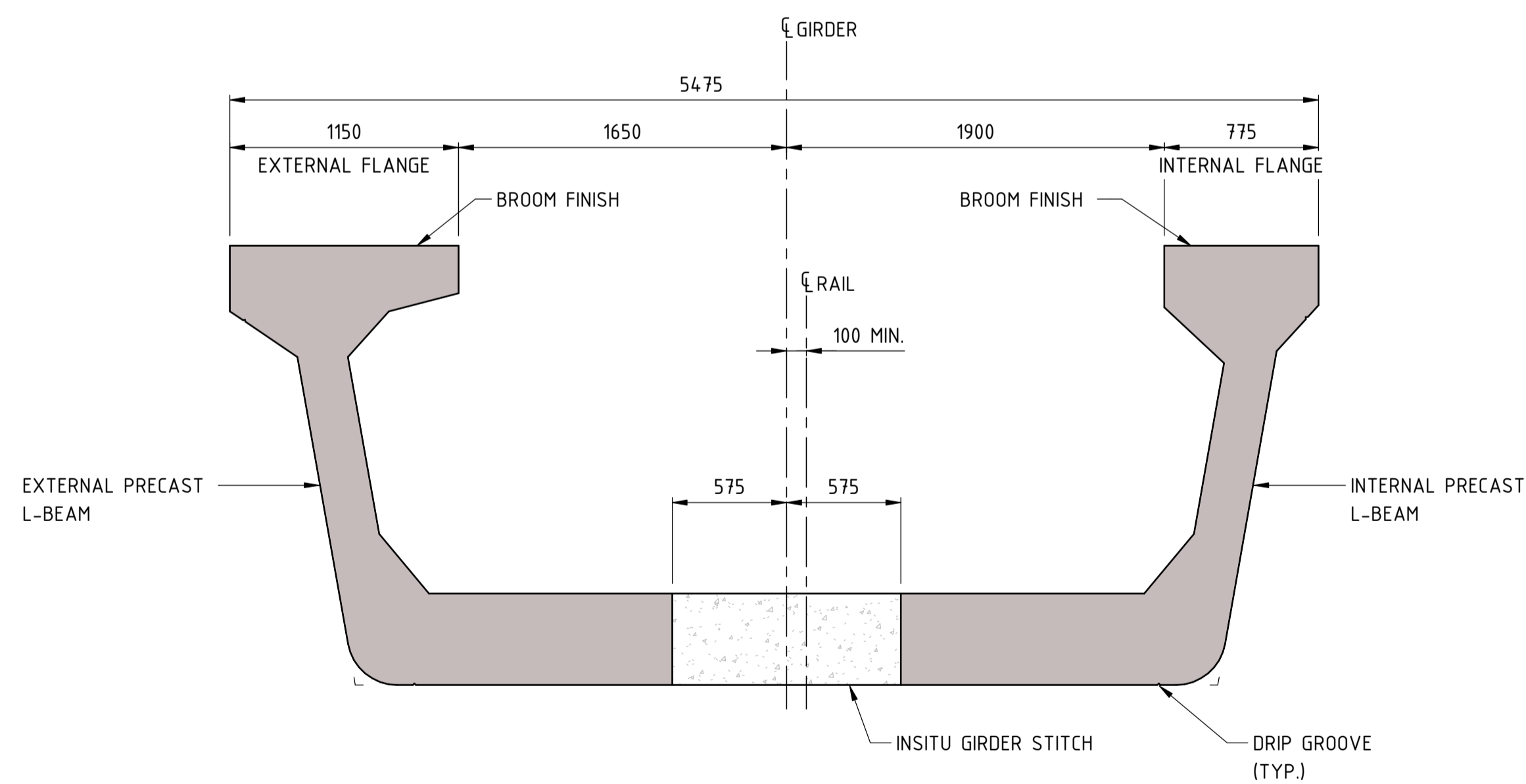
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Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00477

VALIDATION	REFERENCES	SCALE	DESIGNED
SIGNATURE		As indicated	C.CHANG
DATE		DATUM	DRAWN
DATE APPROVED		HORIZONTAL: PCG20	L.RADICI
		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
			21.06.22

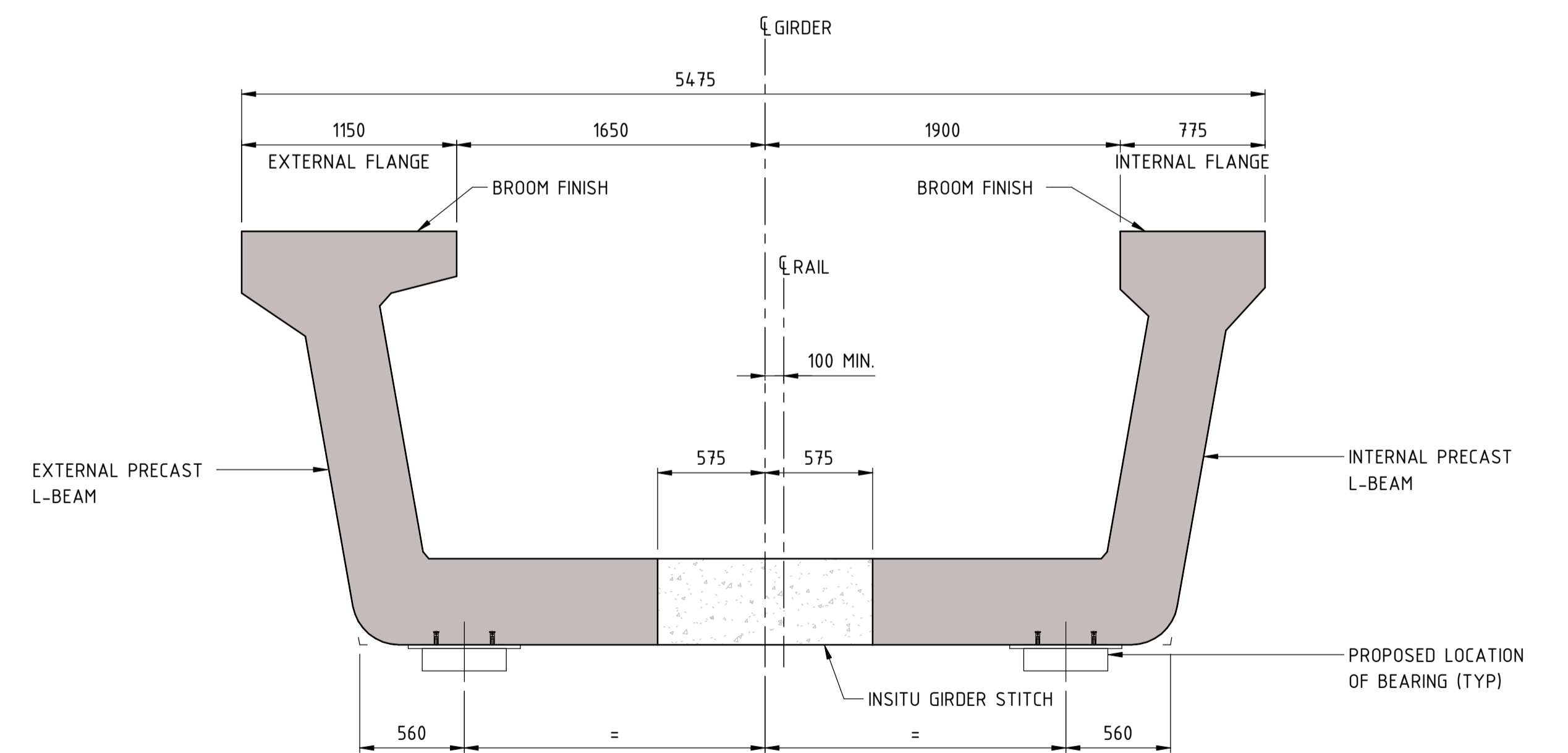


**TYPICAL U-TROUGH ELEVATION - 30600**  
SCALE 1 : 50



**U-TROUGH AT MIDSPAN**

SECTION S1  
SCALE 1:25



**U-TROUGH SECTION AT DIAPHRAGMS**

SECTION S2  
SCALE 1:25

1:50 (A1) / 1:100 (A3) 0 500mm 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500

**FOR INFORMATION**

	<b>VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL</b>
<b>PROJECT WIDE - CIVIL STRUCTURES VIADUCT</b>	
<b>U-TROUGH TYPICAL SECTIONS - SHEET 4</b>	
<b>PTA Drawing No: 00478</b>	<b>Rev: A01</b>

REV	DATE	ISSUED FOR INFORMATION	CC	LR	RP	WS
		AMENDMENT	DSN	DRN	CHK	APP
A01	21.06.22					
ORIG SIZE				<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>		
A1		AT ORIGINAL PLOT SIZE				

**ARMADALE LINE UPGRADE ALLIANCE**  
*Innovation to Reality*

Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00478

VALIDATION

SIGNATURE

DATE

DATE APPROVED

REFERENCES

SCALE

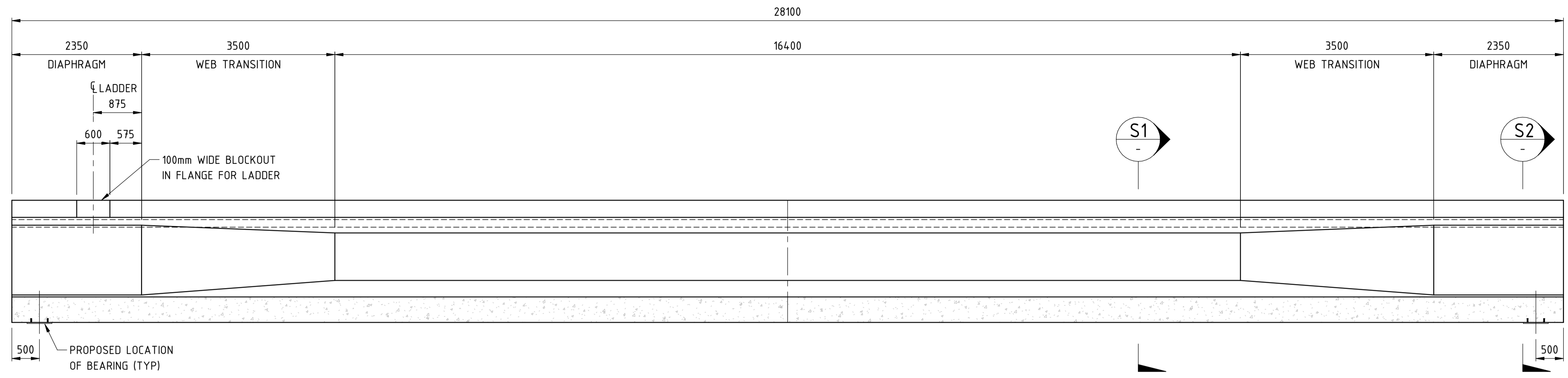
As indicated

DATUM

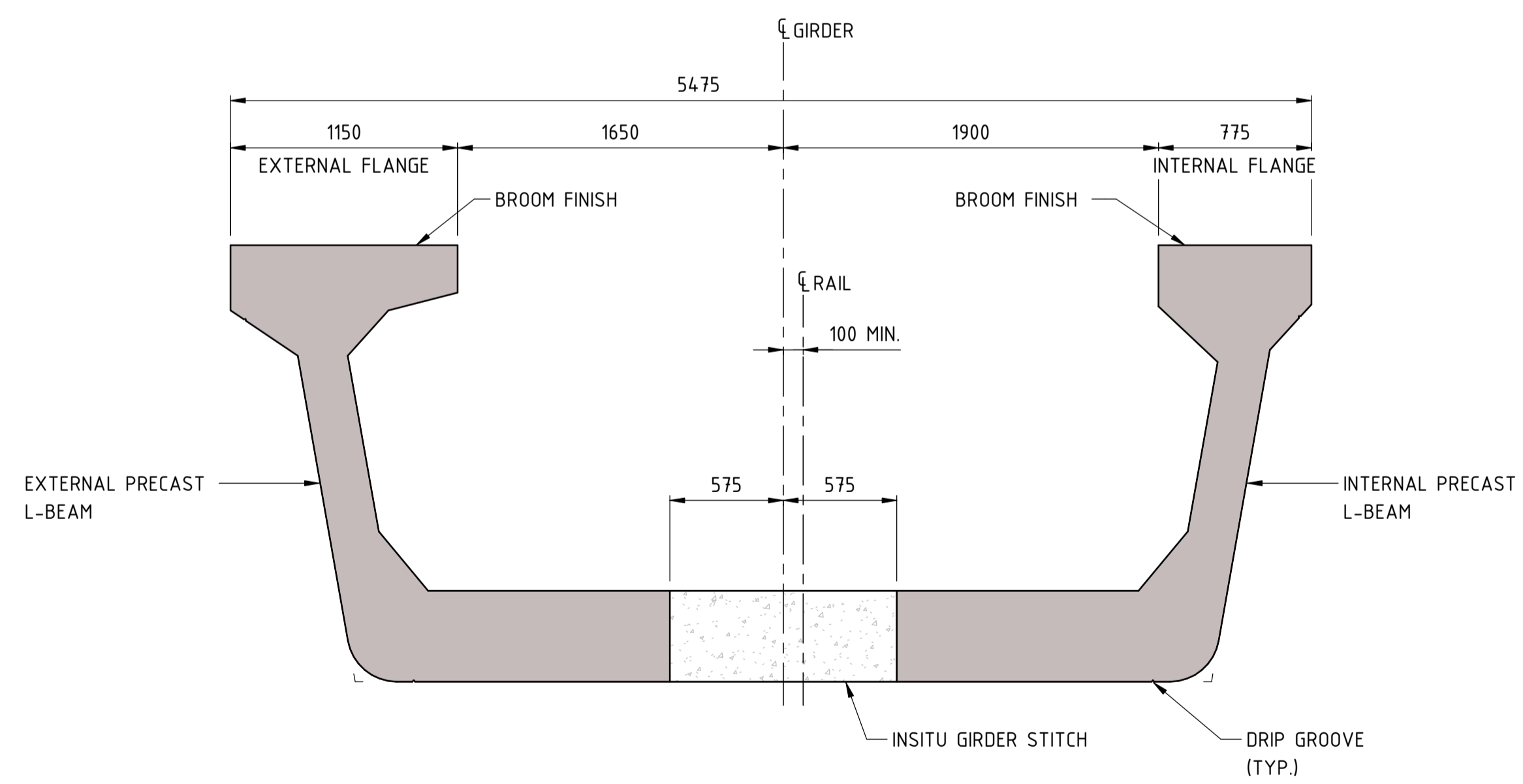
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VERTICAL: AHD71

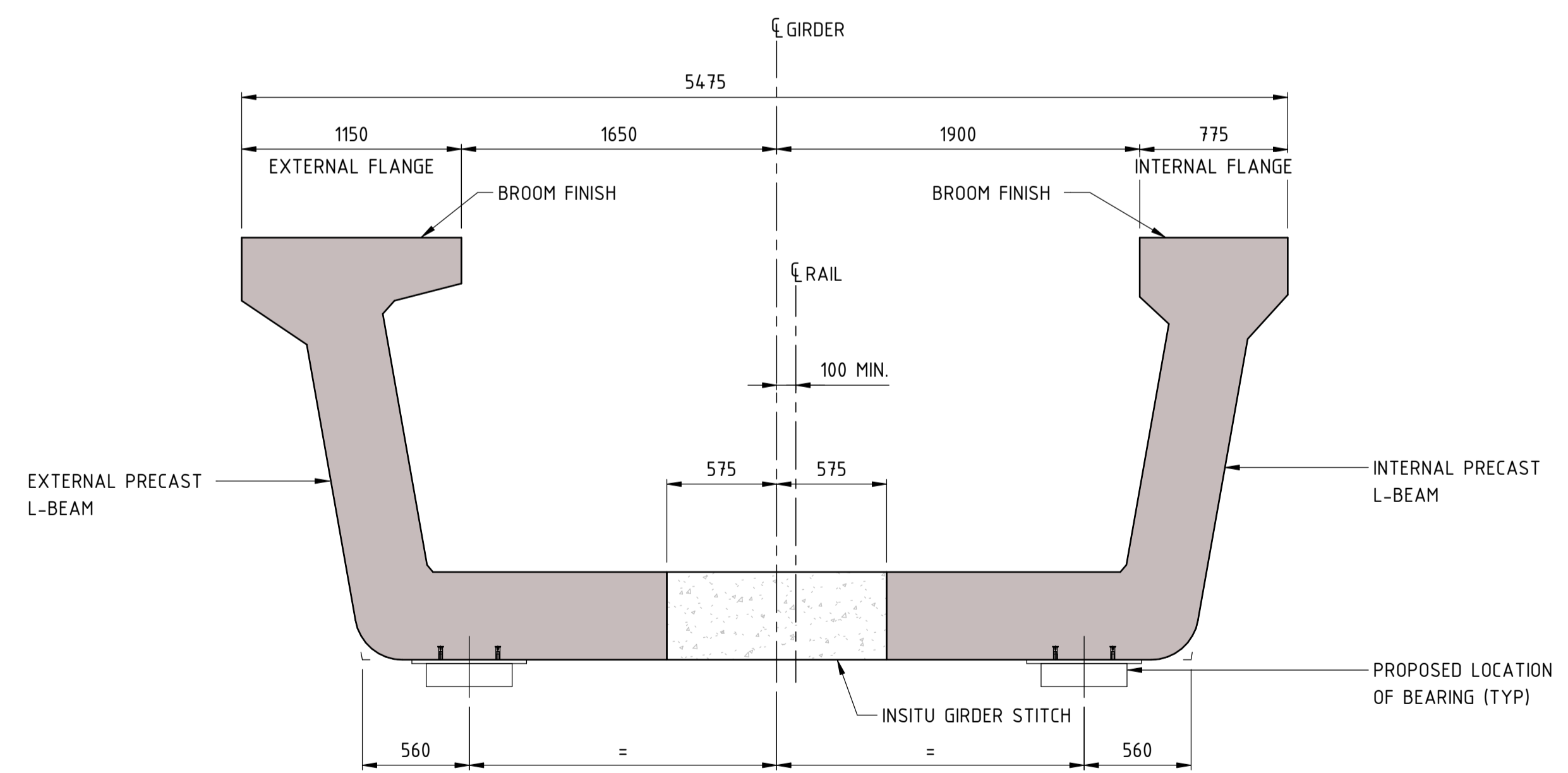
DESIGNED	C.CHANG
DRAWN	L.RADICI
CHECKED	R.PEYILA
APPROVED	W.SCHWARZ
DATE	21.06.22



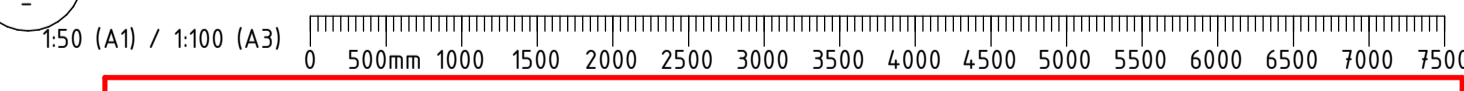
TYPICAL VIADUCT ELEVATION - 28100  
SCALE 1 : 50



U-TROUGH AT MIDSPAN  
SECTION S1  
SCALE 1:25



U-TROUGH SECTION AT DIAPHRAGMS  
SECTION S2  
SCALE 1:25

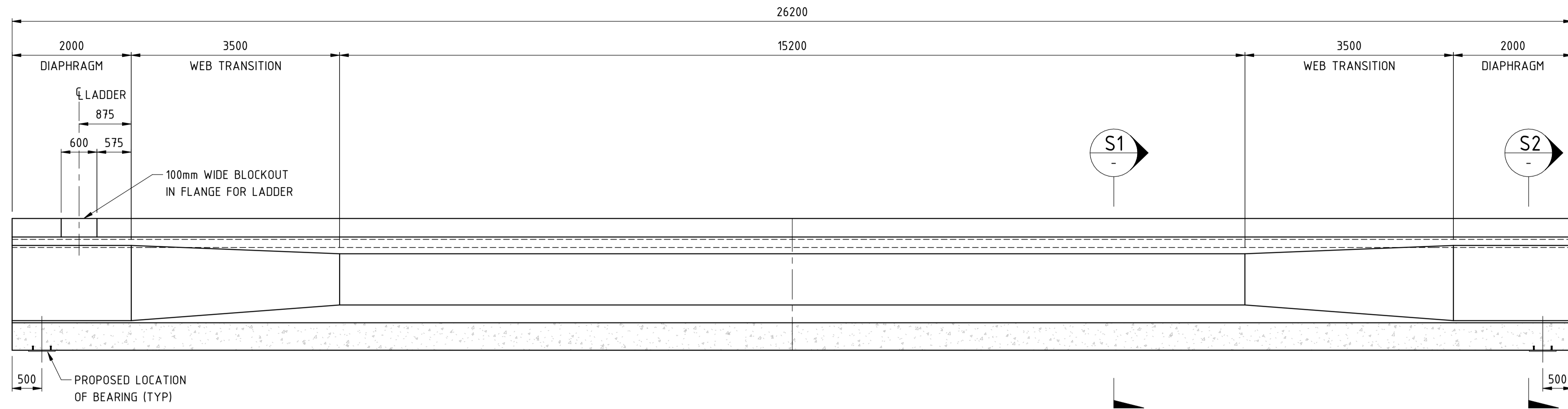


<b>FOR INFORMATION</b>	
	VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL
<b>PROJECT WIDE - CIVIL STRUCTURES</b> <b>VIADUCT</b> <b>U-TROUGH TYPICAL SECTIONS - SHEET 5</b>	
PTA Drawing No: 00479	Rev: A01

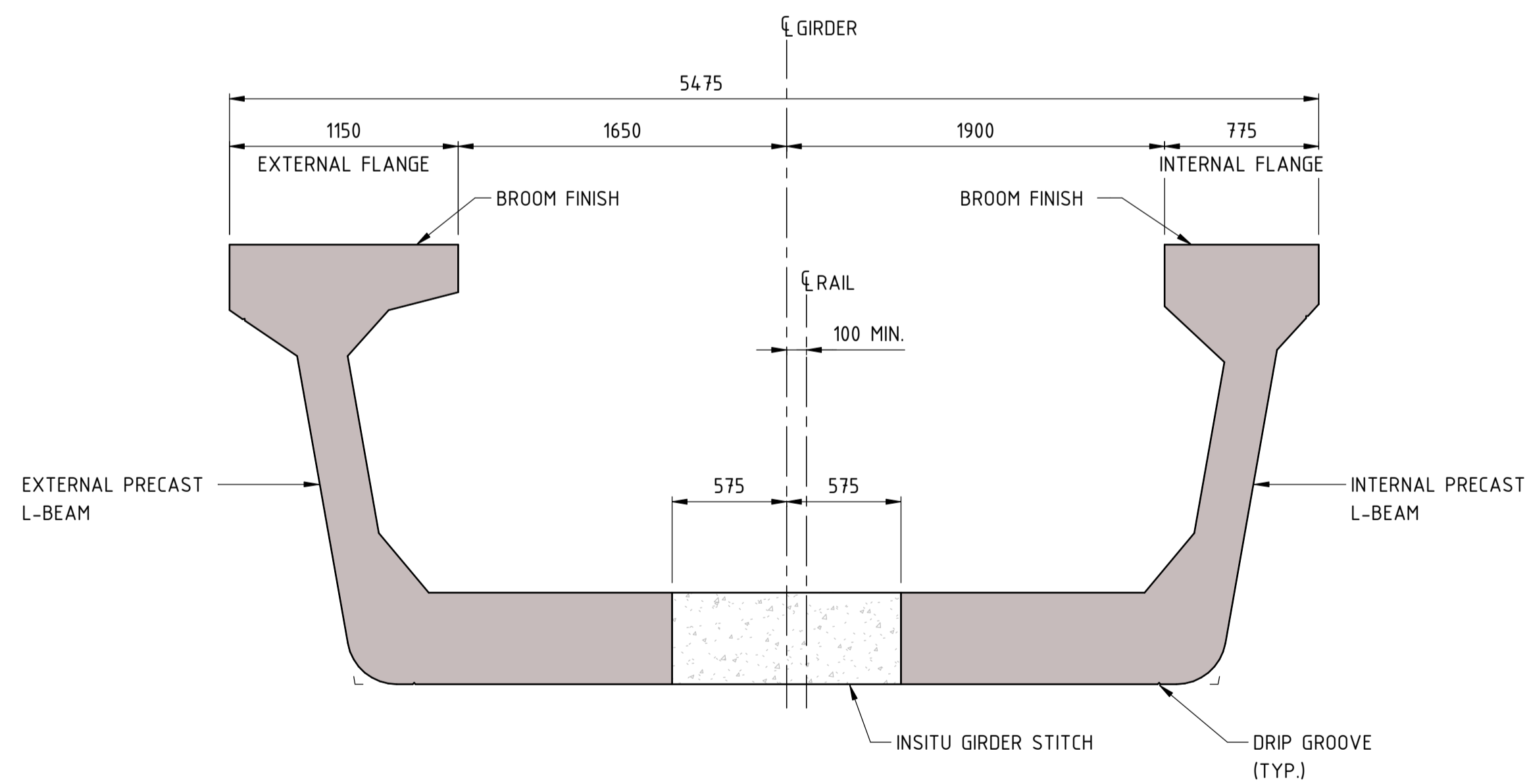
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AMENDMENT			DSN	DRN	CHK	APP
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Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00479

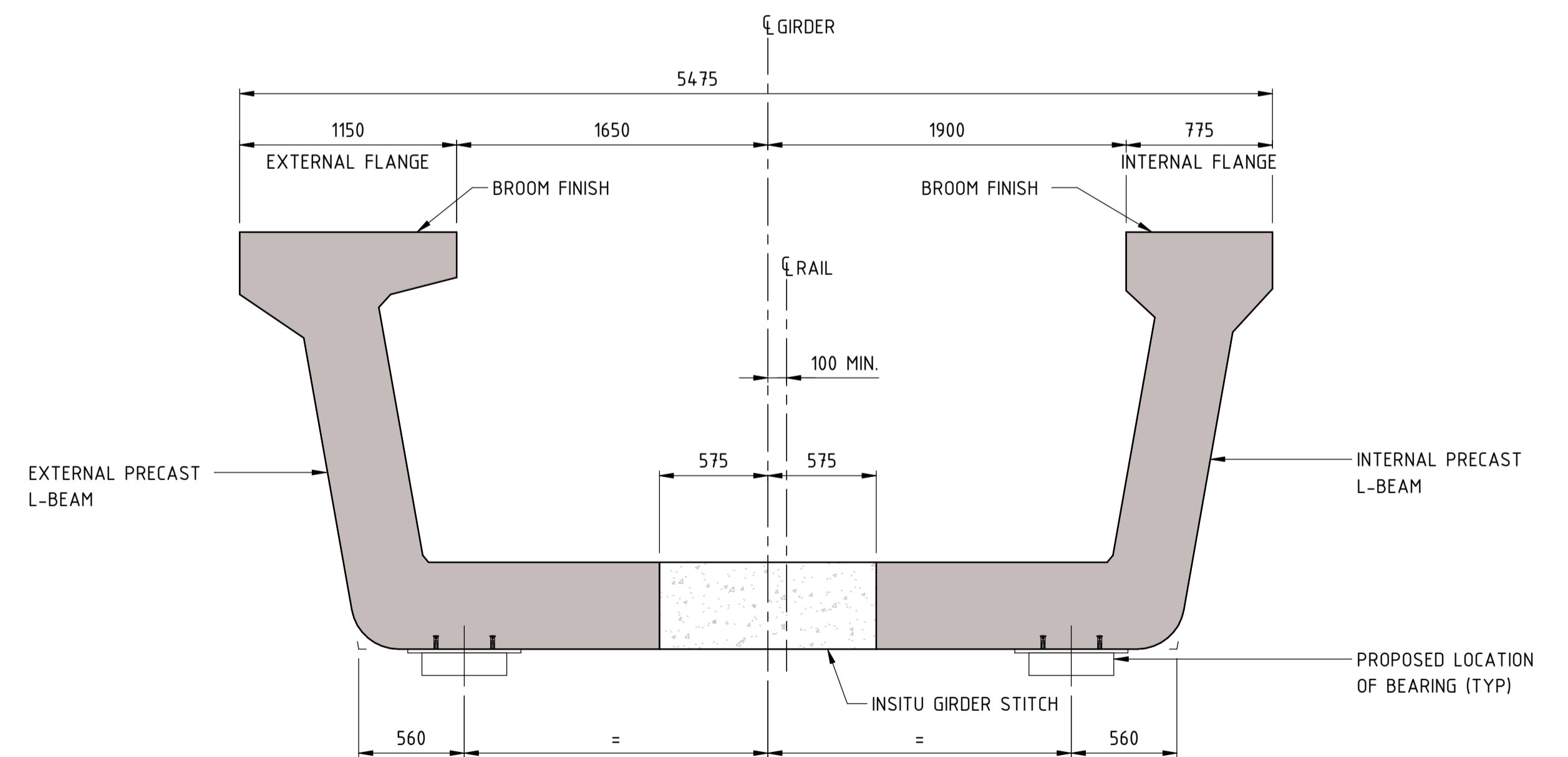
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SIGNATURE		As indicated	C.CHANG
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		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
			21.06.22



TYPICAL U-TROUGH ELEVATION - 26200  
SCALE 1 : 50



U-TROUGH AT MIDSPAN  
SECTION S1  
SCALE 1:25



U-TROUGH SECTION AT DIAPHRAGMS  
SECTION S2  
SCALE 1:25

1:50 (A1) / 1:100 (A3) 0 500mm 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500

**FOR INFORMATION**

Government of Western Australia  
Public Transport Authority

VICTORIA PARK TO CANNING  
LEVEL CROSSING REMOVAL

PROJECT WIDE - CIVIL STRUCTURES  
VIADUCT  
U-TROUGH TYPICAL SECTIONS - SHEET 6  
PTA Drawing No: 00480

Rev: A01

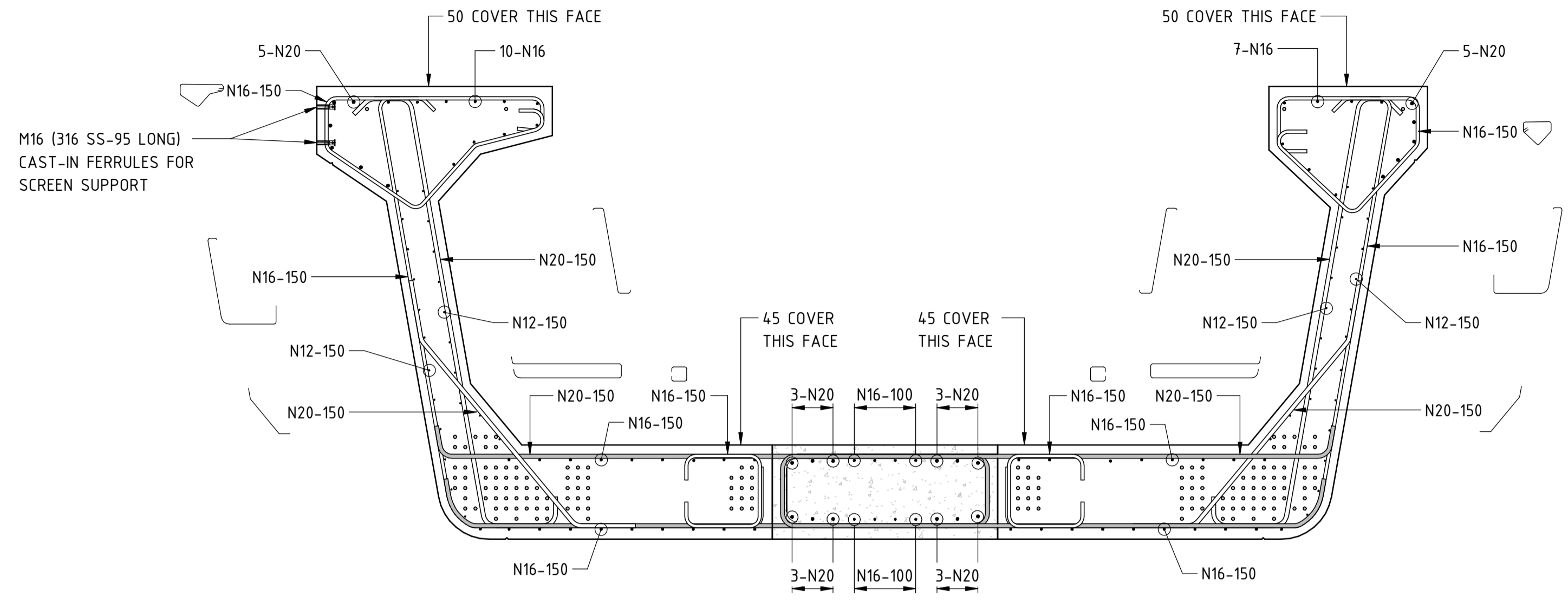
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A01	21.06.22	ISSUED FOR INFORMATION				
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A1	AT ORIGINAL PLOT SIZE					

ARMADALE LINE UPGRADE ALLIANCE  
Innovation to Reality

Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00480

VALIDATION	REFERENCES
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DATE APPROVED	

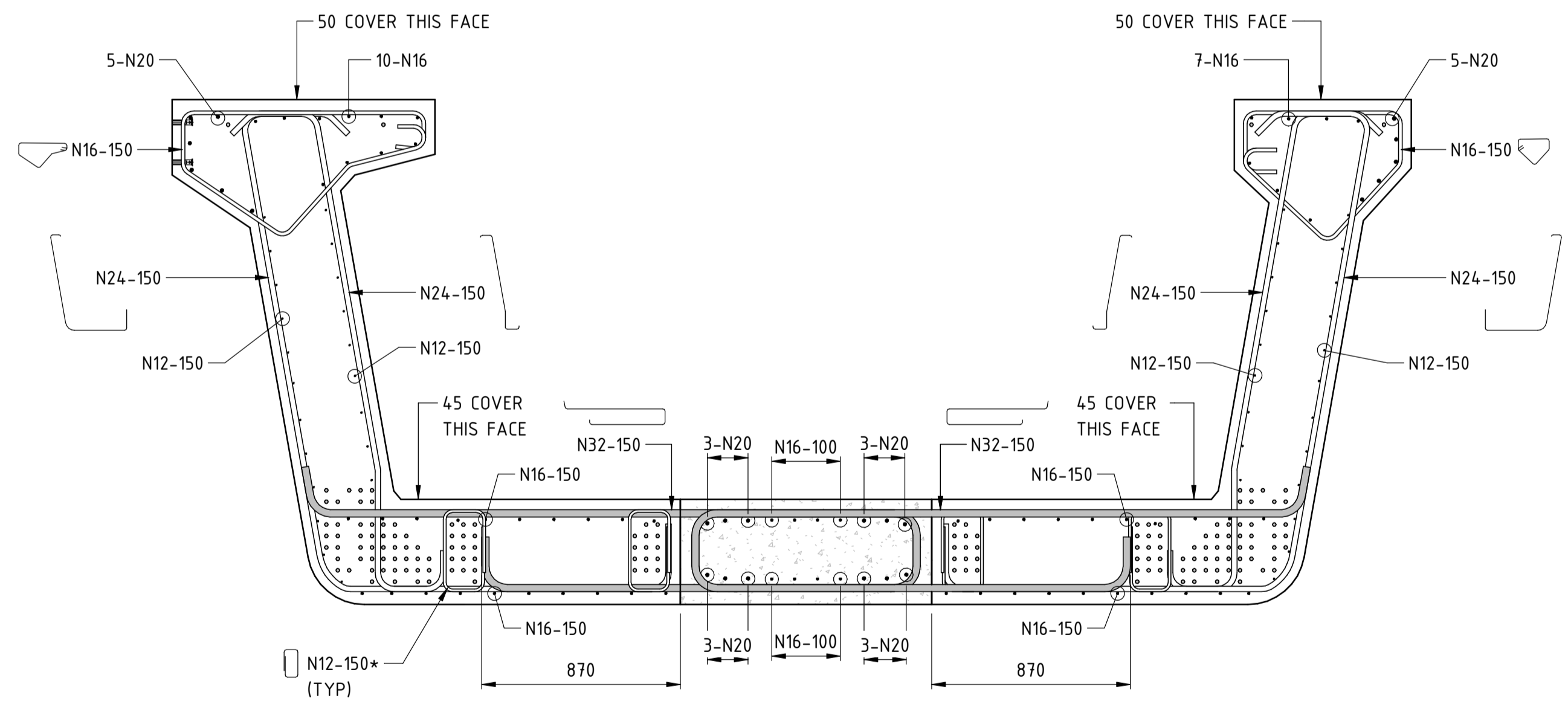
SCALE	DESIGNED
As indicated	C.CHANG
DATUM	DRAWN
HORIZONTAL: PCG20	L.RADICI
VERTICAL: AHD71	CHECKED
	R.PEYILA
	APPROVED
	W.SCHWARZ
	DATE
	21.06.22



**U-TROUGH REINFORCEMENT STANDARD SECTION**

SCALE 1:20

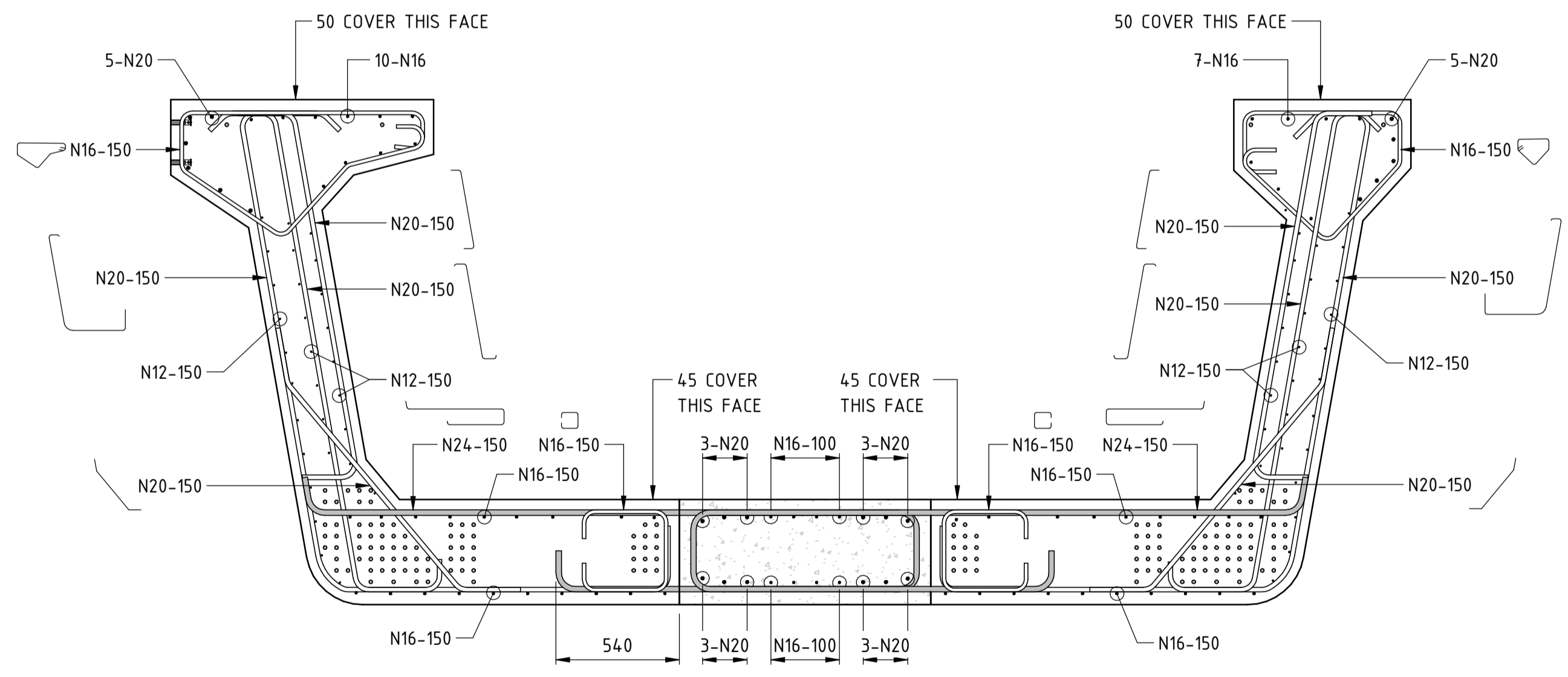
NOTE: 40mm COVER TO REINFORCEMENT UNO



**U-TROUGH REINFORCEMENT DIAPHRAGM SECTION**

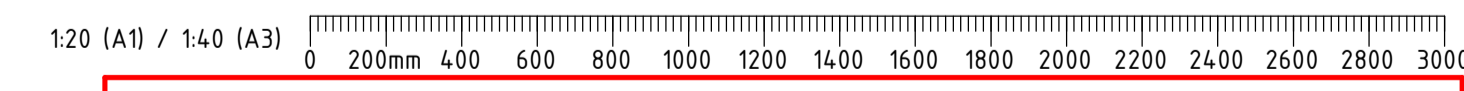
SCALE 1:20

NOTE: \* NOT REQUIRED FOR 26.2m AND 28.1m SPAN GIRDERS



**U-TROUGH REINFORCEMENT TRANSITION SECTION**

SCALE 1:20



**FOR INFORMATION**

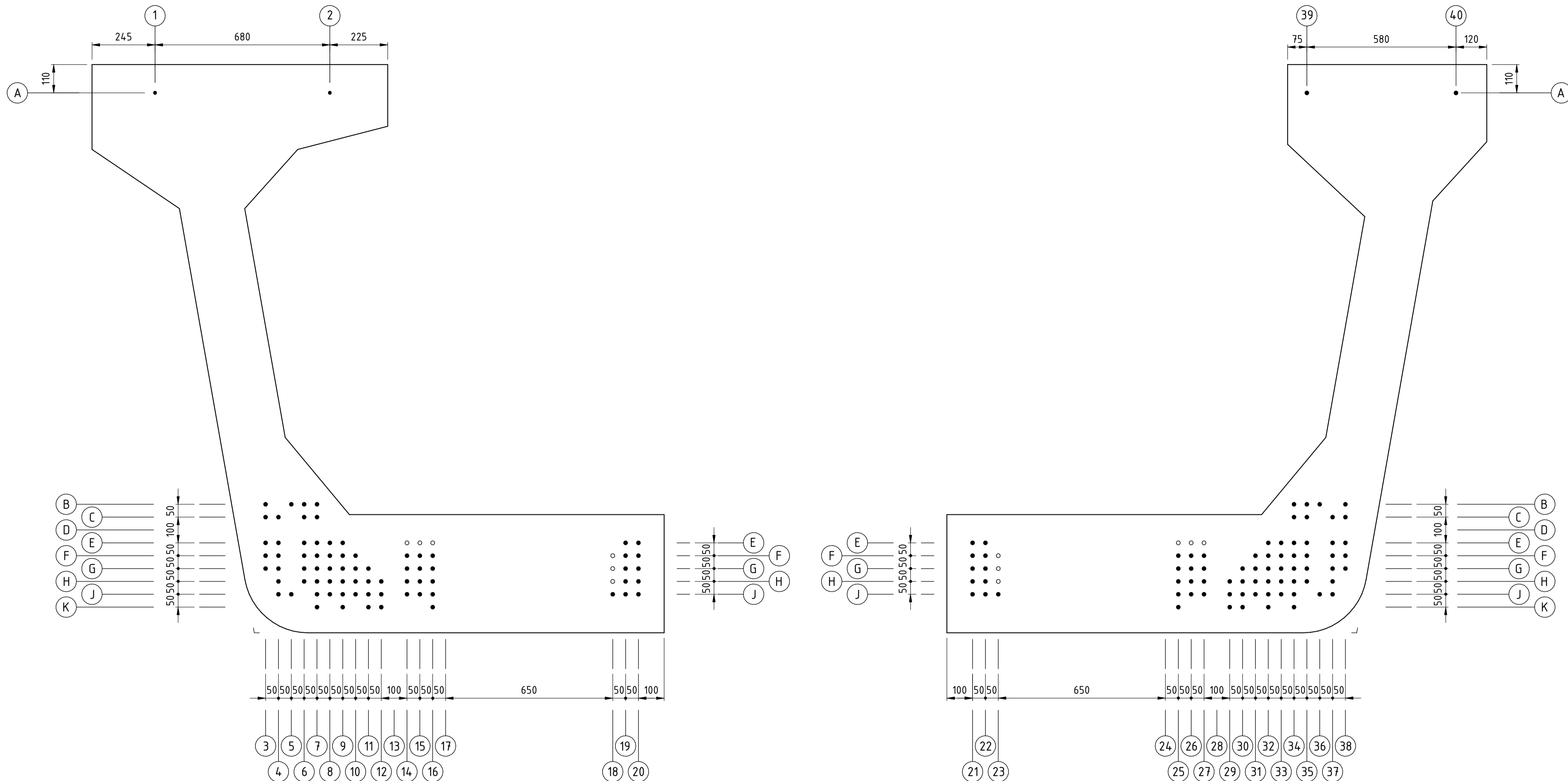
	<b>VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL</b>
<b>PROJECT WIDE - CIVIL STRUCTURES VIADUCT</b>	
<b>U-TROUGH REINFORCEMENT SECTIONS</b>	
PTA Drawing No: <b>00498</b>	Rev: <b>A01</b>

REV	DATE	ISSUED FOR INFORMATION	AMENDMENT	CC	LR	RP	WS	DSN	DRN	CHK	APP
A01	21.06.22										
ORIG SIZE		AT ORIGINAL PLOT SIZE									
A1				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.							

Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00498

VALIDATION	REFERENCES
SIGNATURE	
DATE	
DATE APPROVED	

SCALE	DESIGNED
1 : 20	C.CHANG
DATUM	DRAWN
HORIZONTAL: PCG20	L.RADICI
VERTICAL: AHD71	CHECKED
	R.PEYILA
	APPROVED
	W.SCHWARZ
	DATE
	21.06.22



**EXTERNAL L-BEAM**  
SCALE 1:10

**INTERNAL L-BEAM**  
SCALE 1:10

**PRE-STRESSING STRAND ARRANGEMENT  
(TYPICAL 29.9m BEAM) AT STATION**

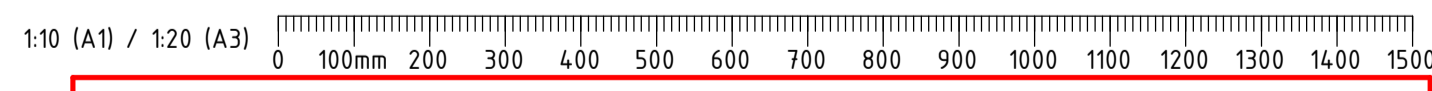
**LEGEND:**

- - STRAND WITH NO DEBONDING
- - STRAND WITH DEBONDING LENGTH 'L'
- - NO STRAND
- ⊗ - PROVISIONAL STRANDS FOR ANCHOR BED (TBC - IDD PHASE)

STRAND No.	EXTERNAL L-BEAM (29.9m BEAM)																				STRANDS PER ROW	
	DEBONDING LENGTH FROM EACH END (mm)																					
ROW A	0	0																				2
ROW B			0		4500	0	4500															4
ROW C			4500	0		4500	0															4
ROW D																						-
ROW E			0	4500		0	4500	0	4500											0	0	8
ROW F			4500	0		4500	0	4500	0	4500				4500	0	4500				0	0	12
ROW G			0	4500		0	4500	0	4500	0	4500			0	4500	0				0	0	13
ROW H				0		4500	0	4500	0	4500	0	4500		4500	0	4500				0	0	13
ROW J				4500	0		4500	0	4500	0	4500			0	4500	0				0	0	14
ROW K																	4500					5
TOTAL																					75	

STRANDS PER ROW	INTERNAL L-BEAM (29.9m BEAM)																				STRAND No.							
	DEBONDING LENGTH FROM EACH END (mm)																											
2																						0	0	ROW A				
4																						4500	0	4500	ROW B			
4																						0	4500	0	4500	ROW C		
-																										ROW D		
8	0	0																				4500	0	4500	0	4500	ROW E	
12	0	0																				4500	0	4500	0	4500	ROW F	
13	0	0																				0	4500	0	4500	0	4500	ROW G
13	0	0																				4500	0	4500	0	4500	ROW H	
14	0	0	0																			0	4500	0	4500	0	4500	ROW J
5																											ROW K	
75	TOTAL																											

- PRESTRESSING NOTES:**
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TRANSFER OF PRESTRESS SHALL BE 35MPa.
  - ALL STRANDS SHALL BE A 7 WIRE, STRESS-RELIEVED, LOW RELAXATION (RELAX 2) COMPLYING WITH AS 4672.
  - STRANDS SHALL BE 15.2mm NOMINAL DIAMETER WITH MINIMUM TENSILE STRENGTH OF 1830 MPa AND MINIMUM BREAKING LOAD OF 261 kN.
  - TOTAL INITIAL FORCE IN EACH STRAND AFTER ALLOWANCES HAVE BEEN MADE FOR ALL LOSSES IN GRIPS AND JACKS SHALL BE 209 kN.
  - AFTER TRANSFER OF PRESTRESS, STRANDS SHALL BE CUT FLUSH WITH THE CONCRETE SURFACE AND EXPOSED STRANDS SHALL BE SEALED AGAINST CORROSION BY THE APPLICATION OF AN APPROVED EXPOXY RESIN.
  - DIMENSIONED LENGTH OF THE GIRDERS IS REQUIRED LENGTH OF THE FINISHED PRODUCT
  - STRANDS SHALL BE RELEASED IN SUCH A MANNER TO MINIMISE ECCENTRIC FORCES IN THE MEMBER.
  - ALL L-BEAMS SHALL BE MINIMUM 90 DAYS OLD BEFORE CARRYING OUT IN-SITU STITCH POUR.



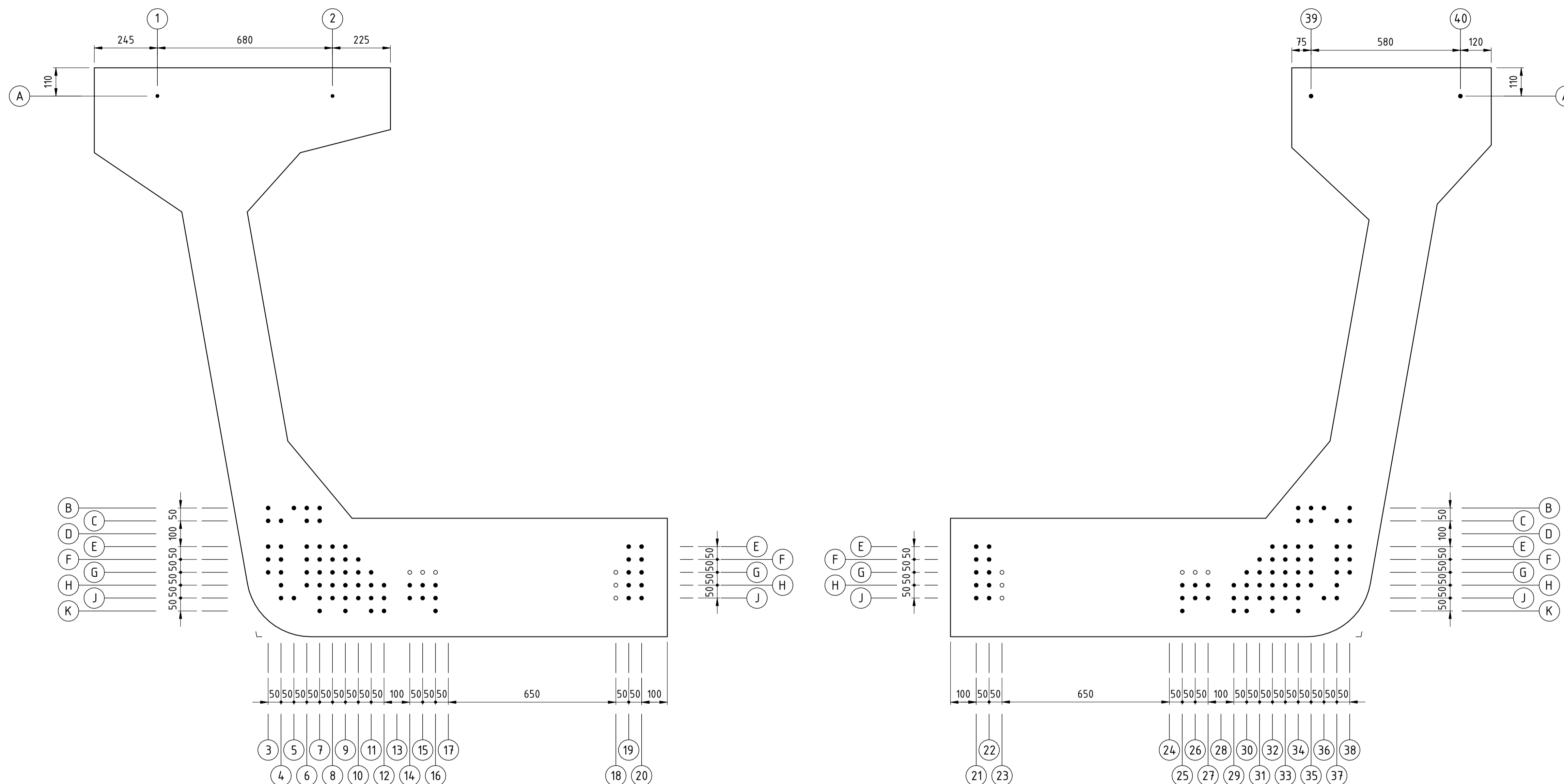
**FOR INFORMATION**

	VICTORIA PARK TO CANNING
	LEVEL CROSSING REMOVAL
PROJECT WIDE - CIVIL STRUCTURES	
VIADUCT	
L-BEAM - PRE-STRESSING DETAILS - SHEET 1	
PTA Drawing No: 00518	Rev: A01

A01	21.06.22	ISSUED FOR INFORMATION	CC	LR	RP	WS				
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP				
ORIG SIZE			<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>							
A1	AT ORIGINAL PLOT SIZE									



VALIDATION	REFERENCES	SCALE	DESIGNED
SIGNATURE		1 : 10	C.CHANG
DATE		DATUM	DRAWN
DATE APPROVED		HORIZONTAL: PCG20	L.RADICI
		VERTICAL: AHD71	CHECKED
			R.PEYILA
			APPROVED
			W.SCHWARZ
			DATE
			21.06.22



**EXTERNAL L-BEAM**  
SCALE 1:10

**INTERNAL L-BEAM**  
SCALE 1:10

**PRE-STRESSING STRAND ARRANGEMENT**  
(TYPICAL 29.9m-30.05m BEAM) ON VIADUCT

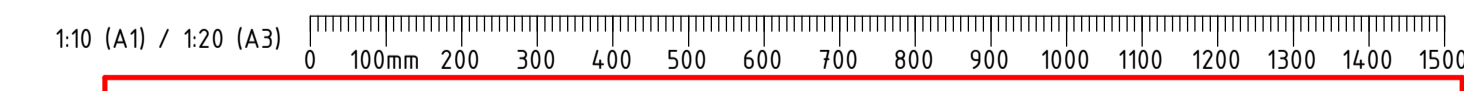
**LEGEND:**

- - STRAND WITH NO DEBONDING
- 4500 - STRAND WITH DEBONDING LENGTH 'L'
- - NO STRAND
- ⊗ - PROVISIONAL STRANDS FOR ANCHOR BED (TBC - IDD PHASE)

EXTERNAL L-BEAM (29.9m-30.05m BEAM)																				STRANDS PER ROW	
STRAND No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20
ROW A	0	0																			2
ROW B			0		4500	0	4500														4
ROW C			4500	0		4500	0														4
ROW D																					-
ROW E			0	4500	0	4500	0	4500	0	4500									0	0	8
ROW F			4500	0		4500	0	4500	0	4500	0	4500							0	0	9
ROW G			0	4500	0	4500	0	4500	0	4500	0	4500							0	0	10
ROW H			0		4500	0	4500	0	4500	0	4500	0	4500	4500	0	4500			0	0	13
ROW J				4500	0		4500	0	4500	0	4500	0		0	4500	0			0	0	13
ROW K																4500					5
																					TOTAL
																					68

INTERNAL L-BEAM (29.9m-30.05m BEAM)																				STRAND No.	
STRANDS PER ROW	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		40
ROW A	2																				2
ROW B	4													4500	0	4500			0	0	4
ROW C	4													0	4500		0	4500			4
ROW D	-																				-
ROW E	8	0	0										4500	0	4500	0		4500	0		8
ROW F	9	0	0										4500	0	4500	0	4500	0	4500	0	9
ROW G	11	0	0										4500	0	4500	0	4500	0	4500	0	11
ROW H	13	0	0										4500	0	4500	0	4500	0	4500	0	13
ROW J	13	0	0										0	4500	0	4500	0	4500	0		13
ROW K	5																				5
	68																				TOTAL
																					68

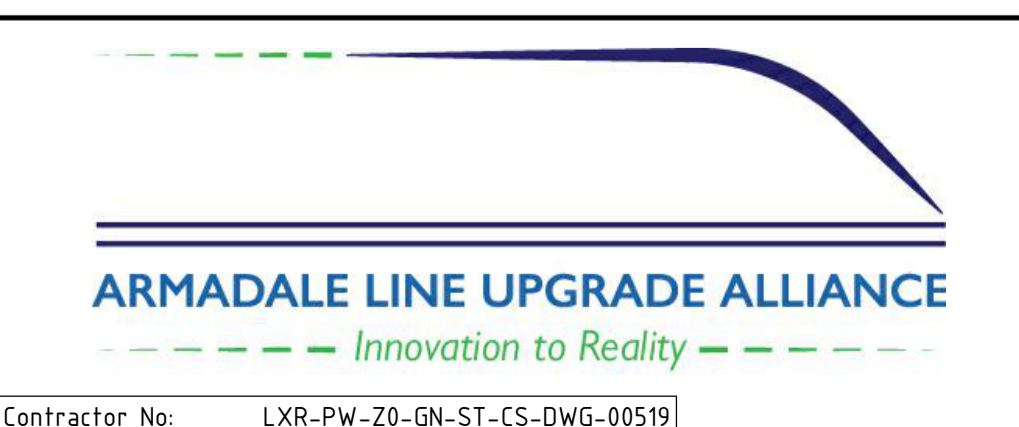
- PRESTRESSING NOTES:**
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TRANSFER OF PRESTRESS SHALL BE 35MPa.
  - ALL STRANDS SHALL BE A 7 WIRE, STRESS-RELIEVED, LOW RELAXATION (RELAX 2) COMPLYING WITH AS 4672.
  - STRANDS SHALL BE 15.2mm NOMINAL DIAMETER WITH MINIMUM TENSILE STRENGTH OF 1830 MPa AND MINIMUM BREAKING LOAD OF 261 kN.
  - TOTAL INITIAL FORCE IN EACH STRAND AFTER ALLOWANCES HAVE BEEN MADE FOR ALL LOSSES IN GRIPS AND JACKS SHALL BE 209 kN.
  - AFTER TRANSFER OF PRESTRESS, STRANDS SHALL BE CUT FLUSH WITH THE CONCRETE SURFACE AND EXPOSED STRANDS SHALL BE SEALED AGAINST CORROSION BY THE APPLICATION OF AN APPROVED EXPOXY RESIN.
  - DIMENSIONED LENGTH OF THE GIRDERS IS REQUIRED LENGTH OF THE FINISHED PRODUCT
  - STRANDS SHALL BE RELEASED IN SUCH A MANNER TO MINIMISE ECCENTRIC FORCES IN THE MEMBER.
  - ALL L-BEAMS SHALL BE MINIMUM 30 DAYS OLD BEFORE CARRYING OUT IN-SITU STITCH POUR.



**FOR INFORMATION**

	<b>VICTORIA PARK TO CANNING</b> LEVEL CROSSING REMOVAL
<b>PROJECT WIDE - CIVIL STRUCTURES</b> VIADUCT	
<b>L-BEAM - PRE-STRESSING DETAILS - SHEET 2</b>	
PTA Drawing No: <b>00519</b>	Rev: <b>A01</b>

A01	21.06.22	ISSUED FOR INFORMATION	CC	LR	RP	WS
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
ORIG SIZE			<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>			
<b>A1</b>	AT ORIGINAL PLOT SIZE		Contractor No: LXR-PW-Z0-GN-ST-CS-M3D-00002.rvt			

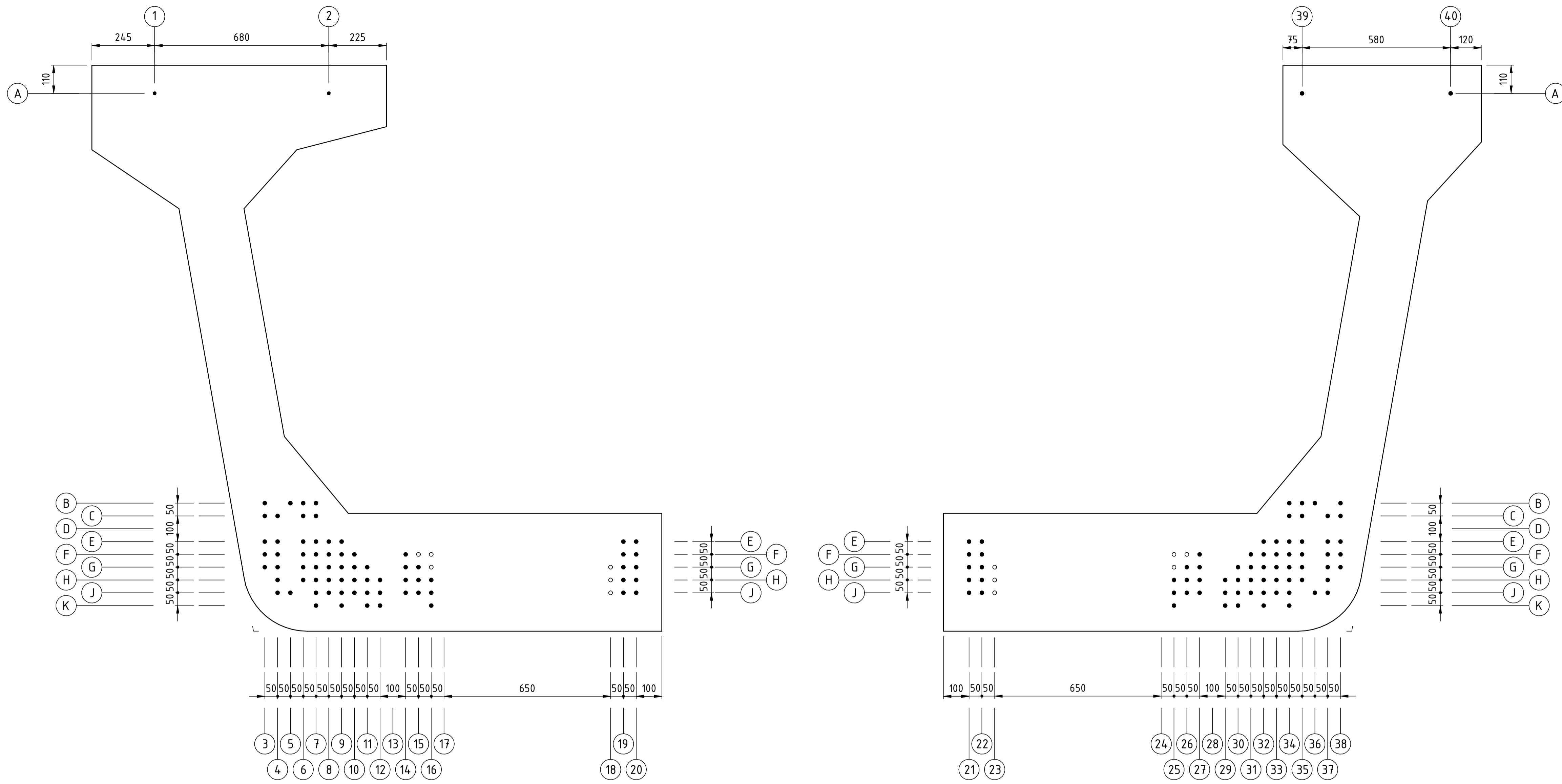


VALIDATION  
SIGNATURE  
DATE  
DATE APPROVED

REFERENCES  
SCALE  
1 : 10  
DATUM  
HORIZONTAL: PCG20  
VERTICAL: AHD71

DESIGNED C.CHANG  
DRAWN L.RADICI  
CHECKED R.PEYILA  
APPROVED W.SCHWARZ  
DATE 21.06.22





**EXTERNAL L-BEAM**  
SCALE 1:10

**INTERNAL L-BEAM**  
SCALE 1:10

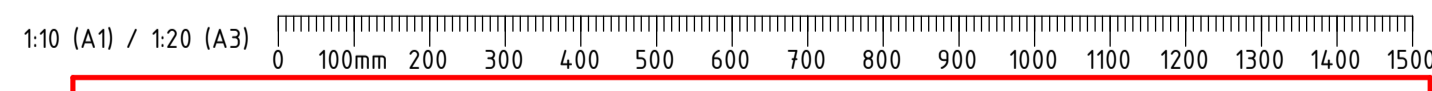
**PRE-STRESSING STRAND ARRANGEMENT  
(TYPICAL 30.6m-31.05m BEAM) ON VIADUCT**

**LEGEND:**

- - STRAND WITH NO DEBONDING
- ◻ (with L) - STRAND WITH DEBONDING LENGTH 'L'
- ◻ (grey) - NO STRAND
- ◻ (with X) - PROVISIONAL STRANDS FOR ANCHOR BED (TBC - IDD PHASE)

EXTERNAL L-BEAM (30.6m-31.05m BEAM)																				STRANDS PER ROW	
DEBONDING LENGTH FROM EACH END (mm)																					
STRAND No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
ROW A	0	0																			2
ROW B			0		4500	0	4500														4
ROW C			4500	0		4500	0														4
ROW D																					-
ROW E			0	4500		0	4500	0	4500										0	0	8
ROW F			4500	0		4500	0	4500	0	4500				4500	◻	◻			0	0	10
ROW G			0	4500	0		4500	0	4500	0	4500				4500	◻	◻		0	0	12
ROW H			0		4500	0	4500	0	4500	0	4500			4500	0	4500		◻	◻	0	13
ROW J				4500	0		4500	0	4500	0	4500				0	4500	0		0	0	13
ROW K							0				0	4500				4500					5
																					TOTAL
																					71

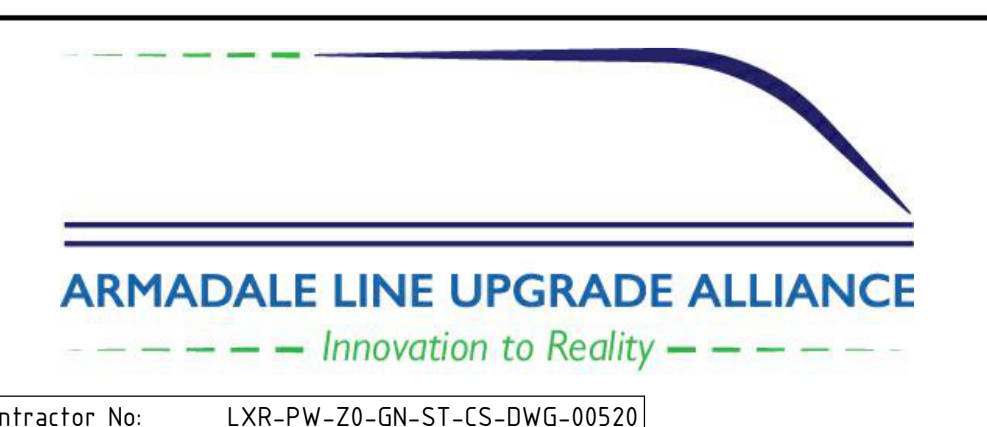
INTERNAL L-BEAM (30.6m-31.05m BEAM)																				STRAND No.	
DEBONDING LENGTH FROM EACH END (mm)																					
STRANDS PER ROW	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
ROW A	2																		0	0	ROW A
ROW B	4													4500	0	4500			0	0	ROW B
ROW C	4													0	4500			0	4500	0	ROW C
ROW D	-																				ROW D
ROW E	8	0	0										4500	0	4500	0		4500	0	0	ROW E
ROW F	9	0	0				4500				4500	0	4500	0	4500	0		4500	0	4500	ROW F
ROW G	11	0	0			4500	0			4500	0	4500	0	4500	0		4500	0	4500	0	ROW G
ROW H	13	0	0			4500	0	4500		4500	0	4500	0	4500	0	4500		0	0	0	ROW H
ROW J	13	0	0			0	4500	0		0	4500	0	4500	0	4500	0		0	4500	0	ROW J
ROW K	5																				ROW K
	71																				TOTAL



**FOR INFORMATION**

	<b>VICTORIA PARK TO CANNING LEVEL CROSSING REMOVAL</b>
<b>PROJECT WIDE - CIVIL STRUCTURES VIADUCT</b>	
<b>L-BEAM - PRE-STRESSING DETAILS - SHEET 3</b>	
PTA Drawing No: <b>00520</b>	Rev: <b>A01</b>

A01	21.06.22	ISSUED FOR INFORMATION	CC	LR	RP	WS
REV	DATE	AMENDMENT	DSN	DRN	CHK	APP
ORIG 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.			
<b>A1</b>	AT ORIGINAL PLOT SIZE		Contractor No: LXR-PW-Z0-GN-ST-CS-DWG-00520			



VALIDATION  SIGNATURE  DATE  DATE APPROVED	REFERENCES	SCALE  1 : 10  DATUM HORIZONTAL: PCG20 VERTICAL: AHD71	DESIGNED: C.CHANG DRAWN: L.RADICI CHECKED: R.PEYILA APPROVED: W.SCHWARZ DATE: 21.06.22
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