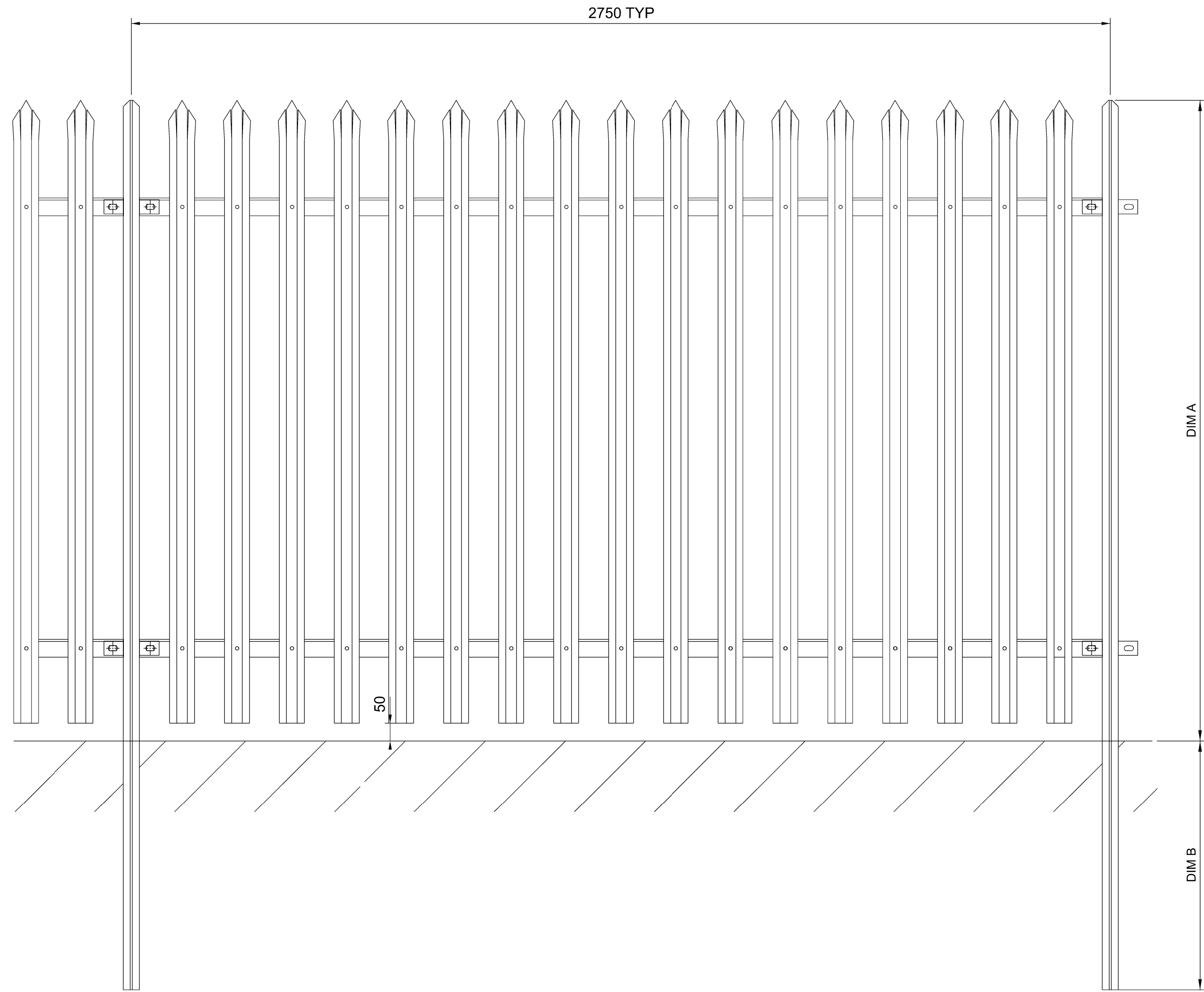


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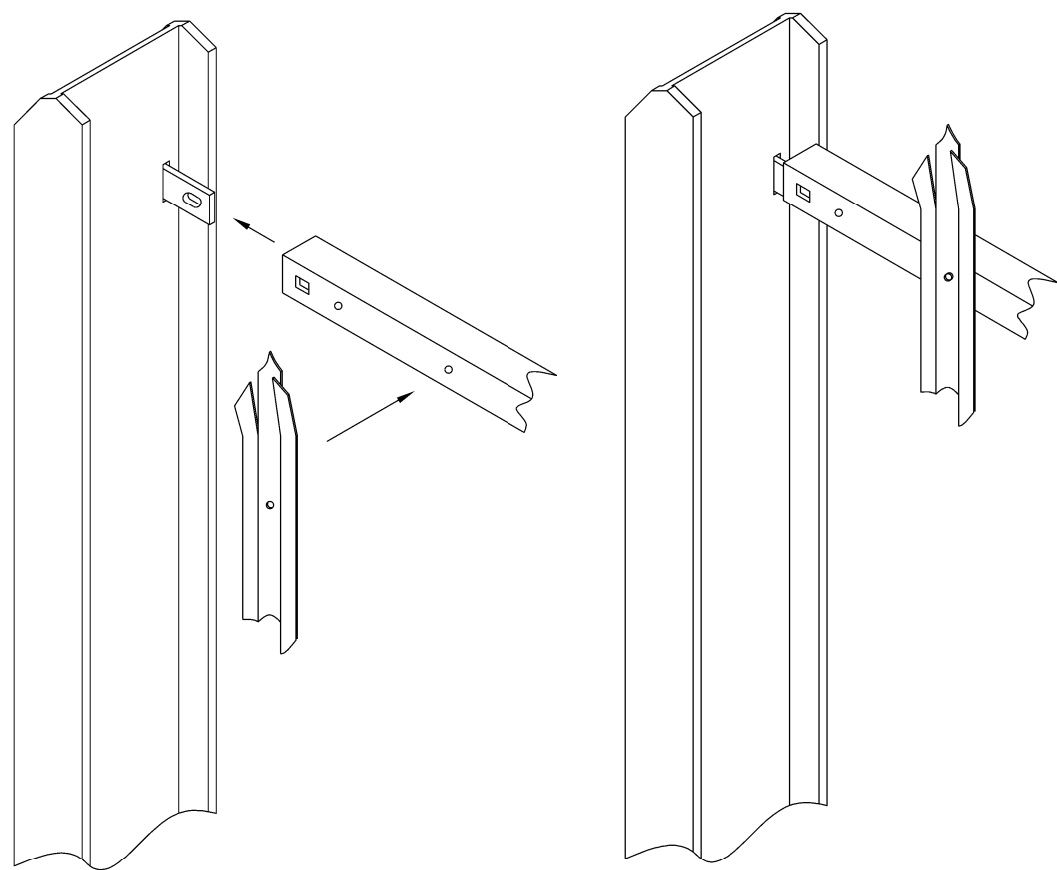
**GENERAL  
ARRANGEMENTS**

.....





PALISADE FENCING PANEL  
1:10 @ A1



ISOMETRIC CONNECTION VIEW  
NOT TO SCALE

DIM A	DIM B	POSTS	ANGLES	PALES
900	600	102x44	50x50	"W"&"D"
1200	600	102x44	50x50	"W"&"D"
1500	600	102x44	50x50	"W"&"D"
1800	600	102x44	50x50	"W"&"D"
2400	750	102x44	50x50	"W"&"D"

- NOTES
- DO NOT SCALE FROM THIS DRAWING
  - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
  - ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM (MOD) UNLESS OTHERWISE STATED.

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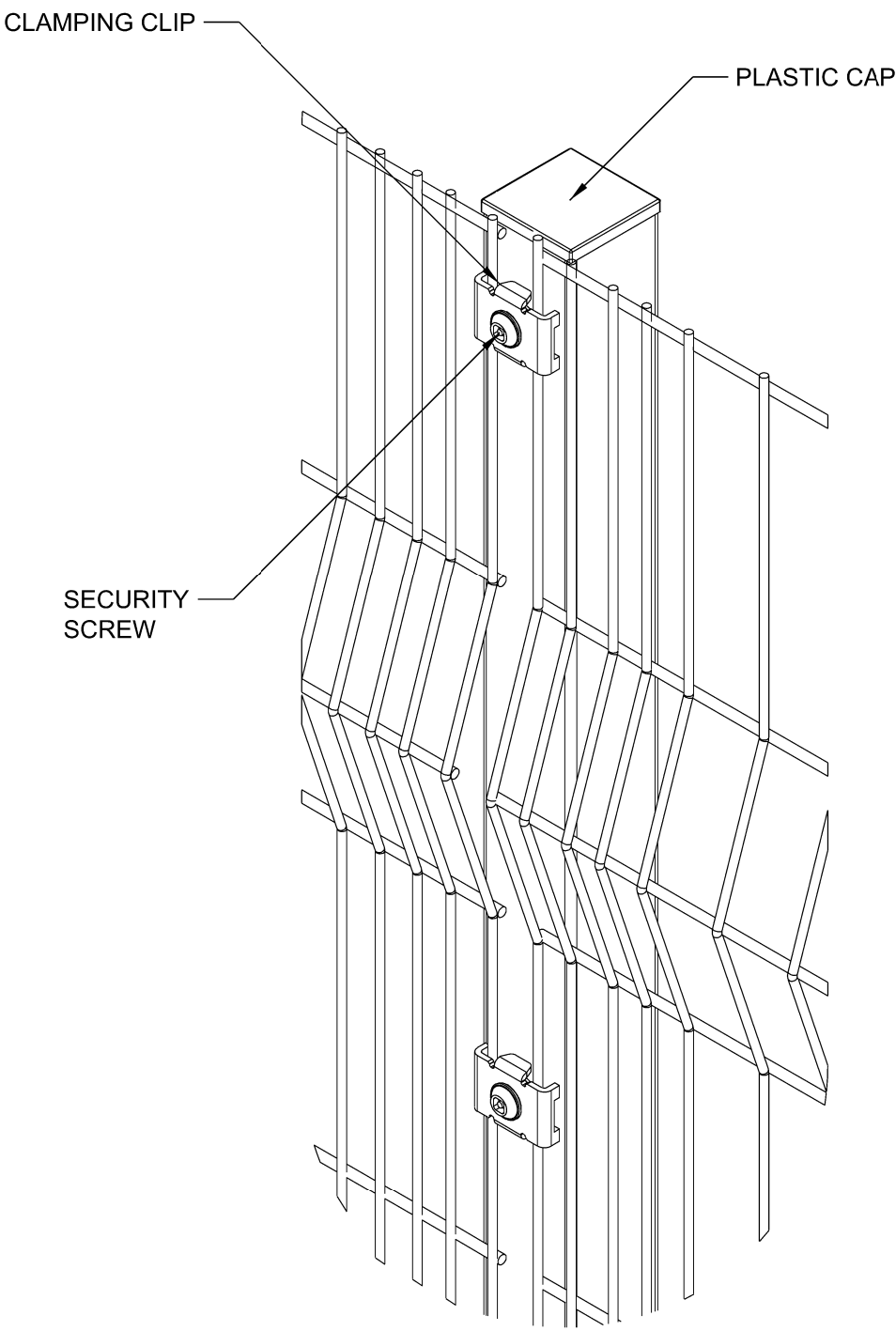
Rev	Date	Dwn	Chk'd	App'd	Description
P01	06/10/2023	SF	EJ	DB	PLANNING ISSUE



Date	11/07/2023	Scale	1:10 @ A1 1:20 @ A3	Drawn	SF	Checked	EJ	Approved	DB
Project Code	D+WP56	Originator Code	ARUP	QMS Code	279933-00				

Project Title	DART+ COASTAL NORTH			
Drawing Title	FENCING DETAILS PALISADE FENCING			
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200001	Sheet Number	01 of 01	Status S3
Rev	P01			

DO NOT SCALE USE FIGURED DIMENSIONS ONLY



ISOMETRIC VIEW OF PANEL - POST CONNECTION

NOT TO SCALE

PRODUCT CODE	POST SIZE (mm)	HEIGHT	POST CENTRES (mm)	HORIZONTAL WIRES (QTY)	NOTES: ALL SIZE PANELS
A02-18	60 x 60	1755	3030	15	VERTICAL WIRES Ø4mm HORIZONTAL WIRES Ø5mm  APETURE 24mm x 195mm - MIN 40mm x 195mm - MAX
A02-20	60 x 60	1970	3030	18	
A02-24	60 x 60	2360	3030	20	

PALADIN FENCING  
1:10 @ A1

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Tionscadal Éireann  
Project Ireland  
**2040**

Rev	Date	Drn	Chk'd	App'd	Description
P01	06/10/2023	SF	EJ	DB	PLANNING ISSUE



## Engineering Designer



Drawn SF	Checked EJ	Approved DB
QMS Code 279933-00		

### Project Title

## DART+ COASTAL NORTH

Drawing Title

## FENCING DETAILS

### PALADIN FENCING

Drawing File Name  
D+WP56-ARP-P4-NL-DR-RO-200002

Sheet Number  
01 of 01

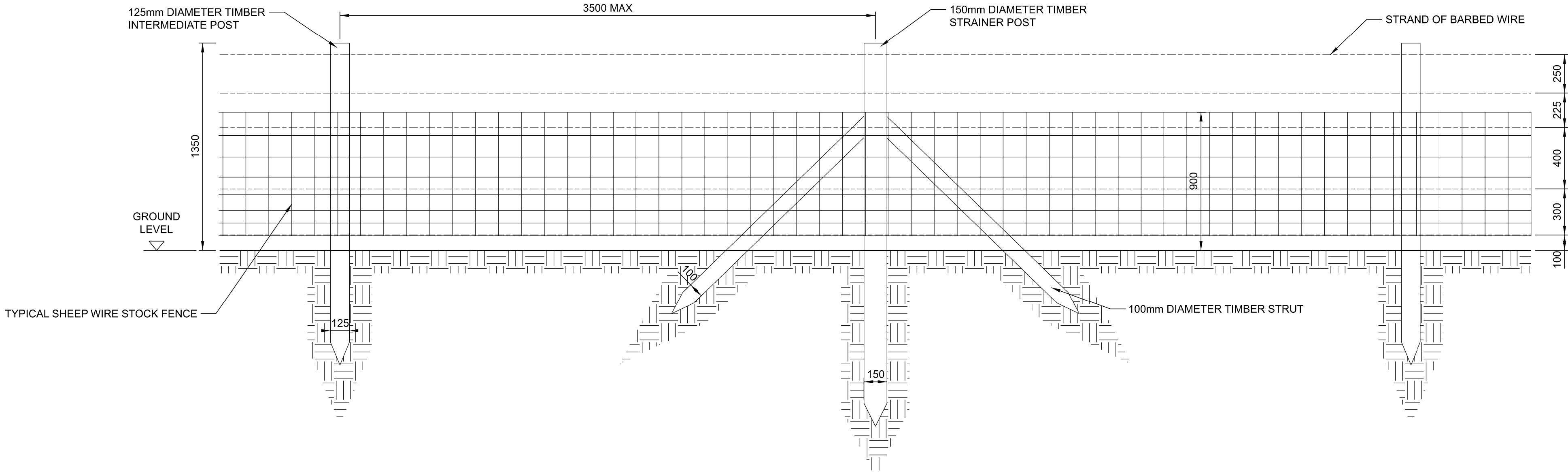
Status  
S3

P01

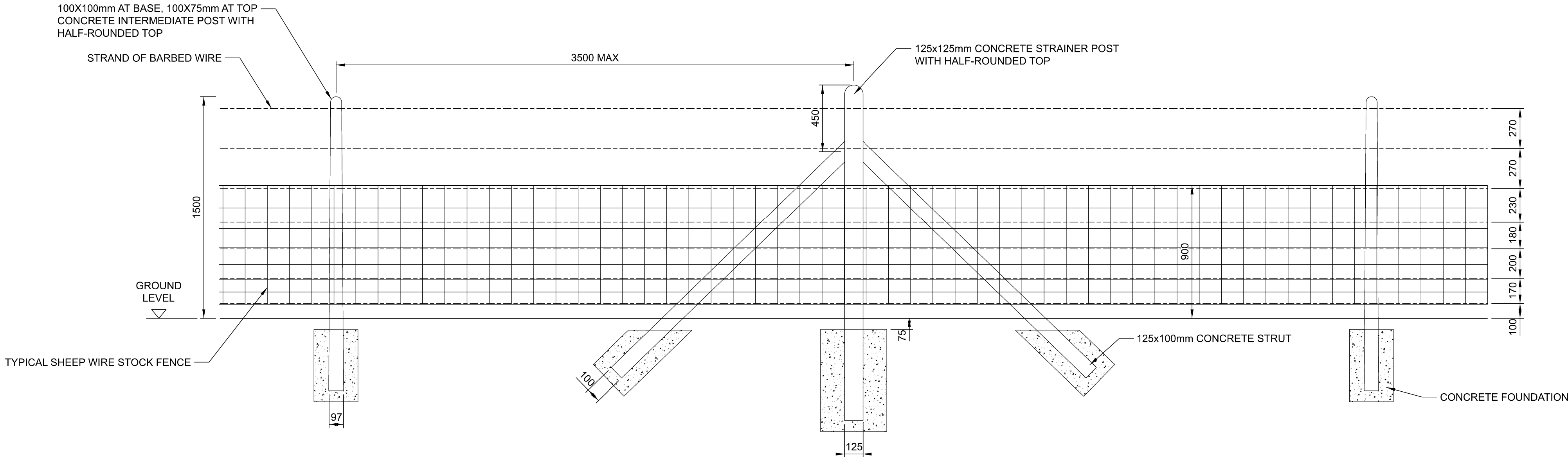
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



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  - ALL LEVELS ARE IN METERS ABOVE ORDNANCE DATUM (MOD) UNLESS OTHERWISE STATED.



TIMBER POST AND WIRE FENCE  
1:20 @ A1



CONCRETE POST AND WIRE FENCE  
1:20 @ A1

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Rev	Date	Dm	Chk'd	App'd	Description
P01	06/10/2023	SF	EJ	DB	PLANNING ISSUE



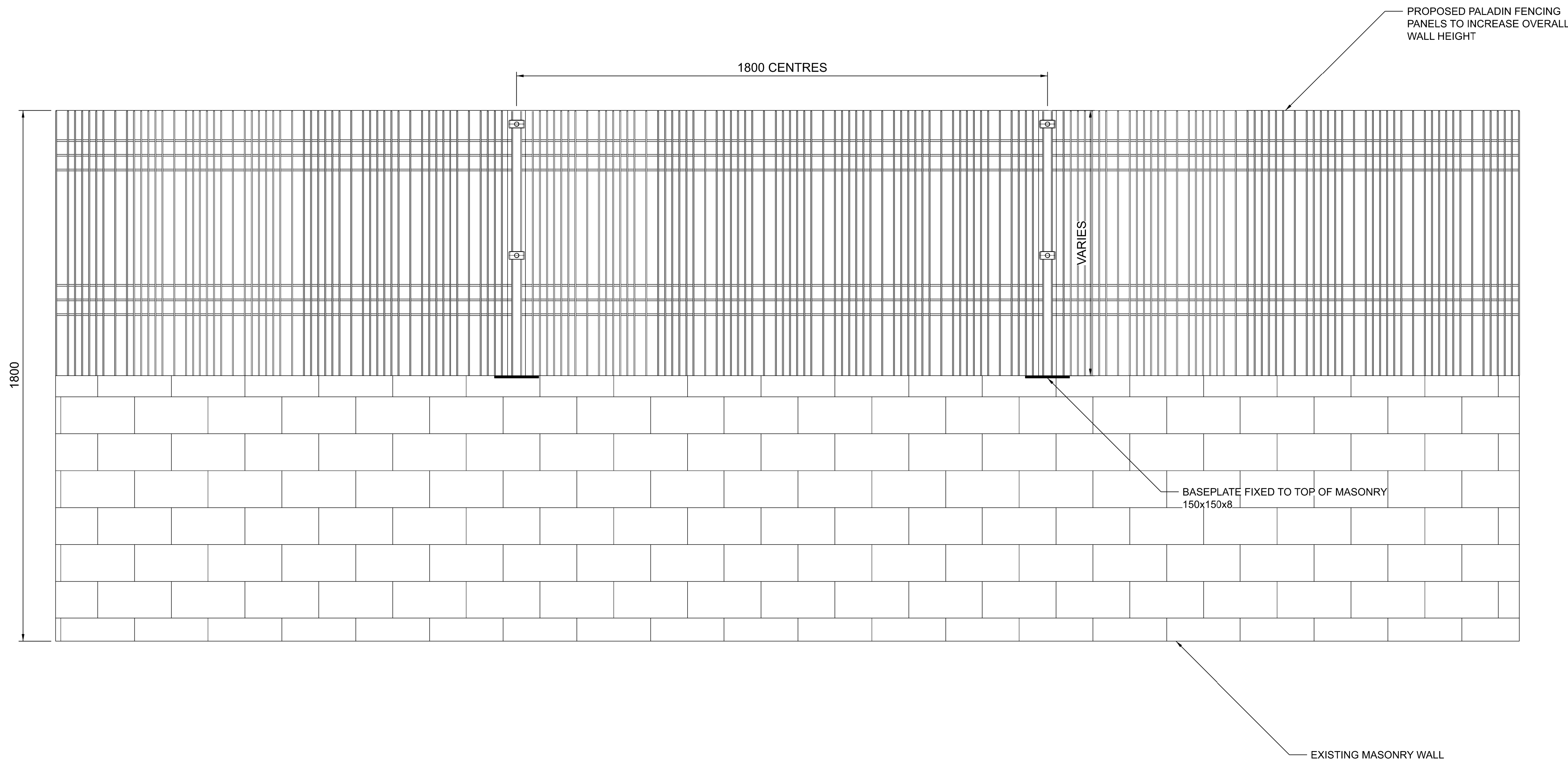
Date	11/07/2023	Scale	1:20 @ A1 1:40 @ A3
Project Code	D+WP56	Originator Code	ARUP



Drawn	SF	Checked	EJ	Approved	DB
QMS Code	279933-00				

Project Title	DART+ COASTAL NORTH			
Drawing Title	FENCING DETAILS POST AND WIRE FENCING			
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200003	Sheet Number	01 of 01	Rev
Status	S3			P01

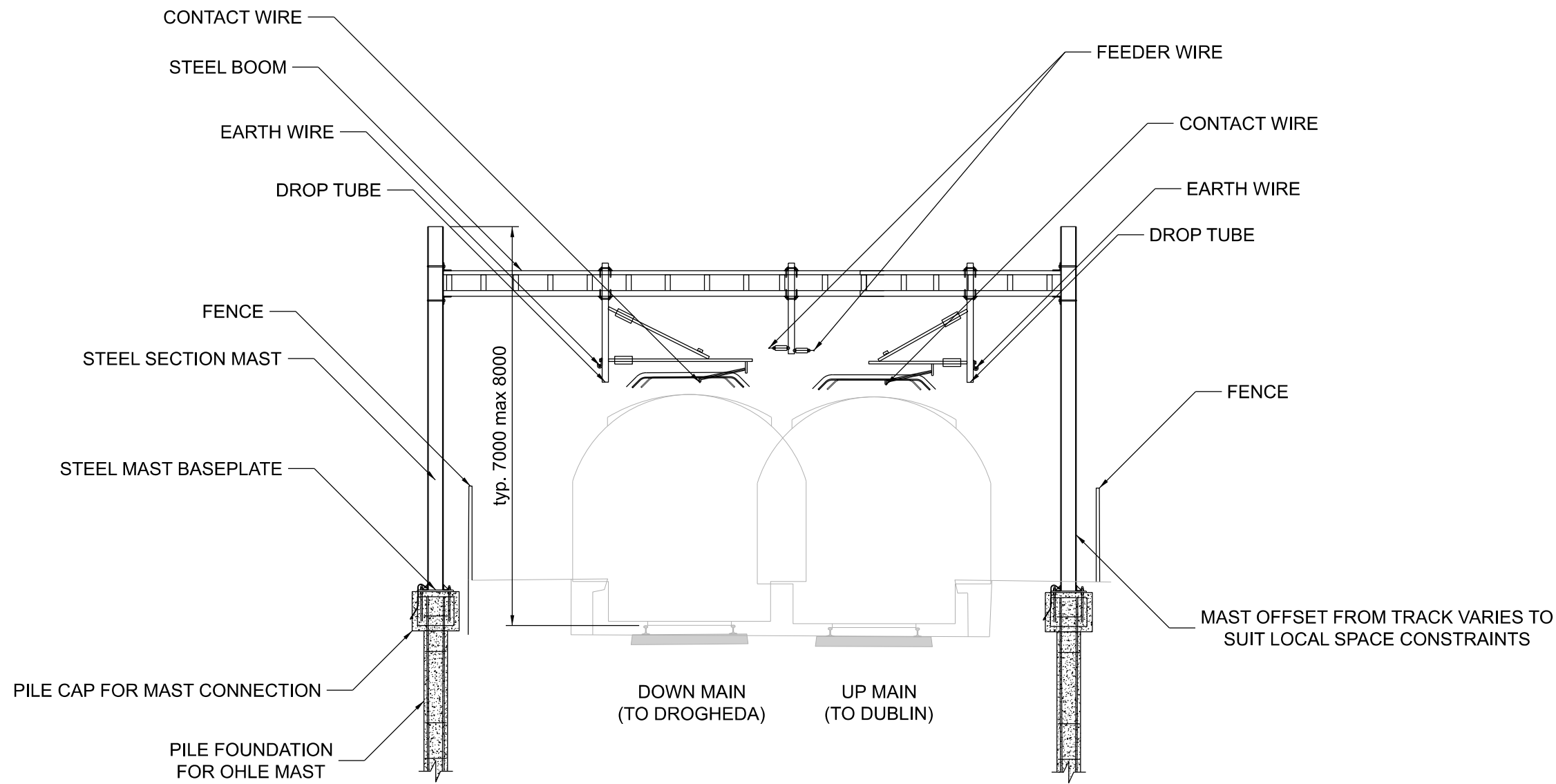
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



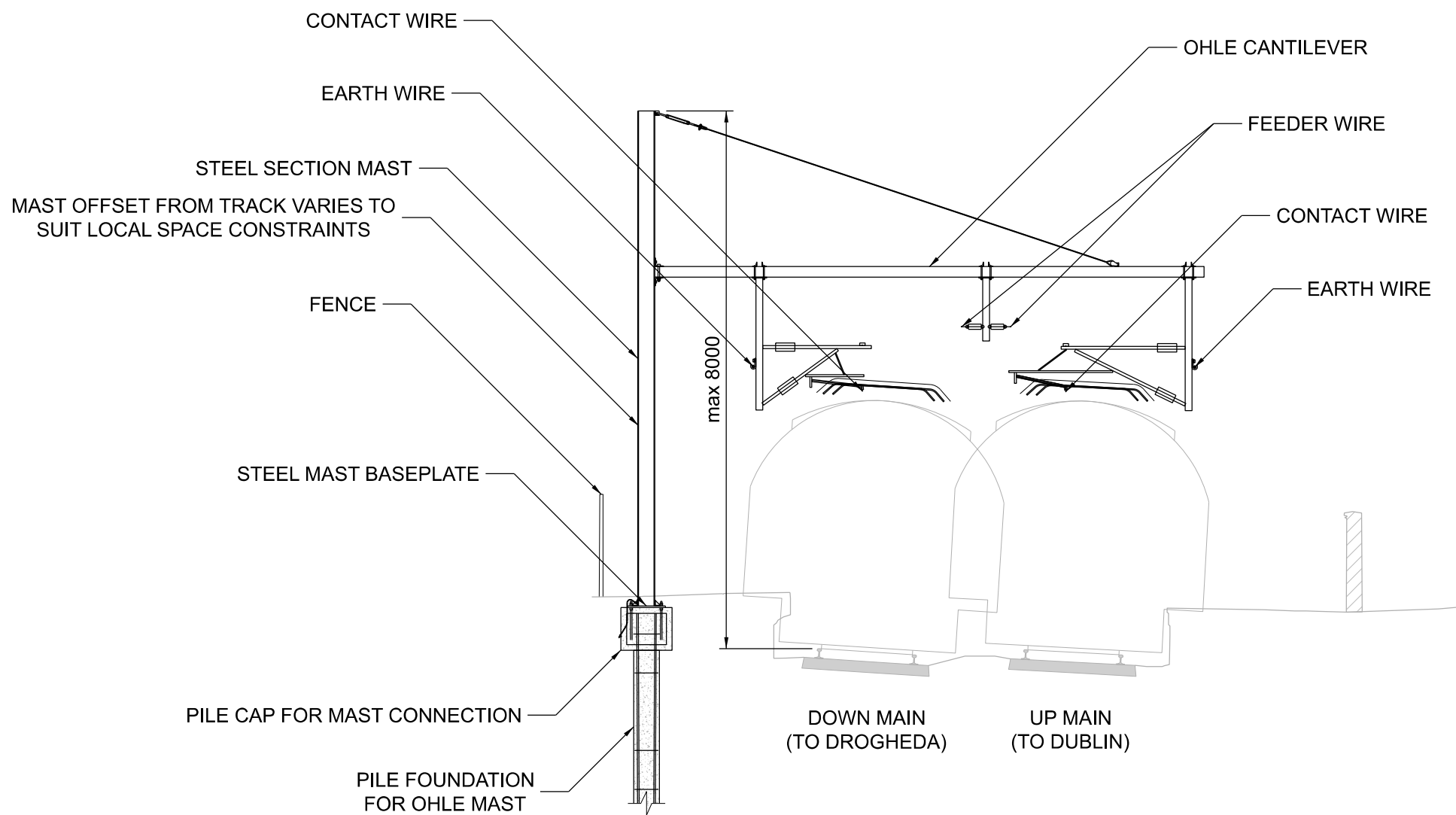
- NOTES
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PALADIN FENCE EXTENSION TO MASONRY WALL  
1:10 @ A1

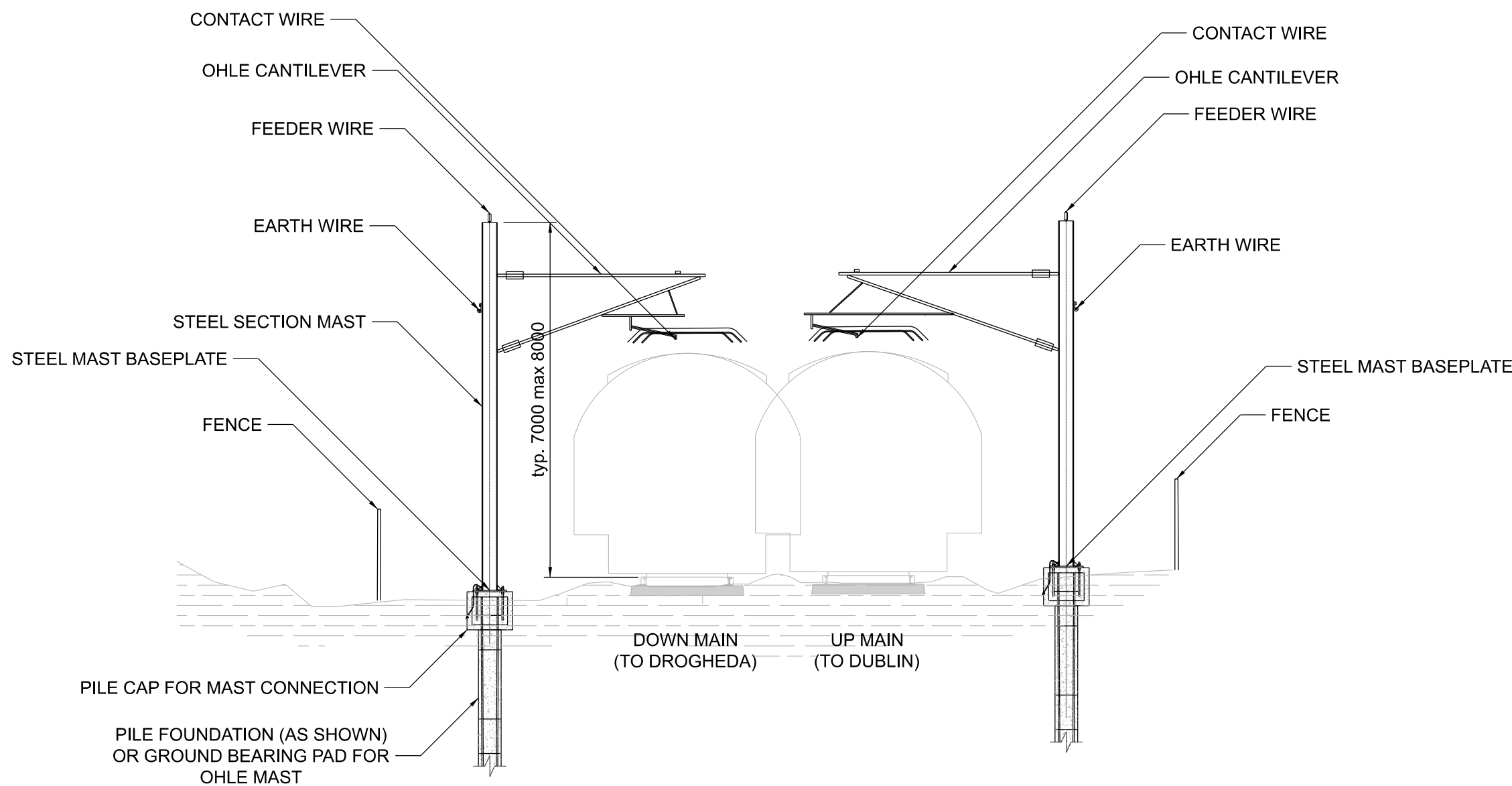




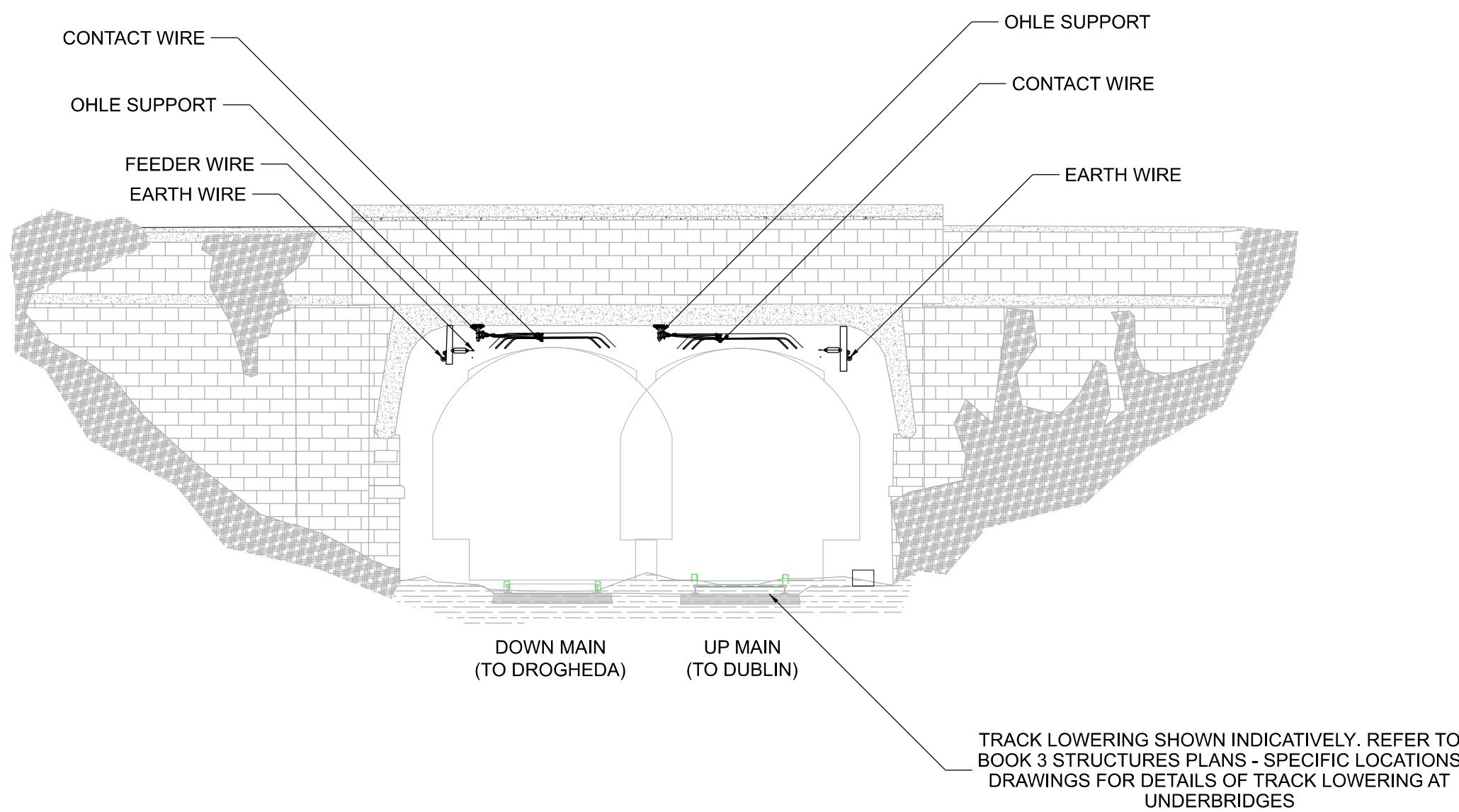
TYPICAL OHLE CROSS SECTION AT A STATION - PORTAL  
1:100 @ A1



TYPICAL OHLE CROSS SECTION AT A STATION - TWIN TRACK CANTILEVER  
1:100 @ A1



TYPICAL OHLE CROSS SECTION - BETWEEN STATIONS - SINGLE TRACK CANTILEVER  
1:100 @ A1



TYPICAL OHLE CROSS SECTION - UNDERBRIDGES BETWEEN MALAHIDE AND DROGHEDA  
1:100 @ A1

- NOTES
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  - LINESIDE CIVILS ELEMENTS SUCH AS SURFACE TROUGHS ARE NOT SHOWN. FOR DETAILS OF LINESIDE CIVILS ELEMENTS INCLUDING TROUGHING ROUTES REFER TO BOOK 3 STRUCTURES PLANS - LINEAR WORKS.
  - FOR DETAILS OF OHLE STRUCTURES AT VIADUCTS AND AT THE PROPOSED RETAINING WALLS IN THE VICINITY OF CLONGRIFFIN AND MALAHIDE STATIONS REFER TO BOOK 3 STRUCTURES PLANS - SPECIFIC LOCATIONS DRAWINGS.

- LEGEND
- EXISTING ELEMENTS
  - PROPOSED ELEMENTS
  - ELEMENTS TO BE REMOVED

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Rev	Date	Dm	Chk'd	App'd	Description
P01	06/10/2023	SF	GJ	CC	PLANNING ISSUE



Date	21/07/2023	Scale	SHOWN@ A1 SHOWN@ A3	Drawn	SF	Checked	GJ	Approved	CC
Project Code	D+WP56	Originator Code	ARUP	QMS Code	279933-00				

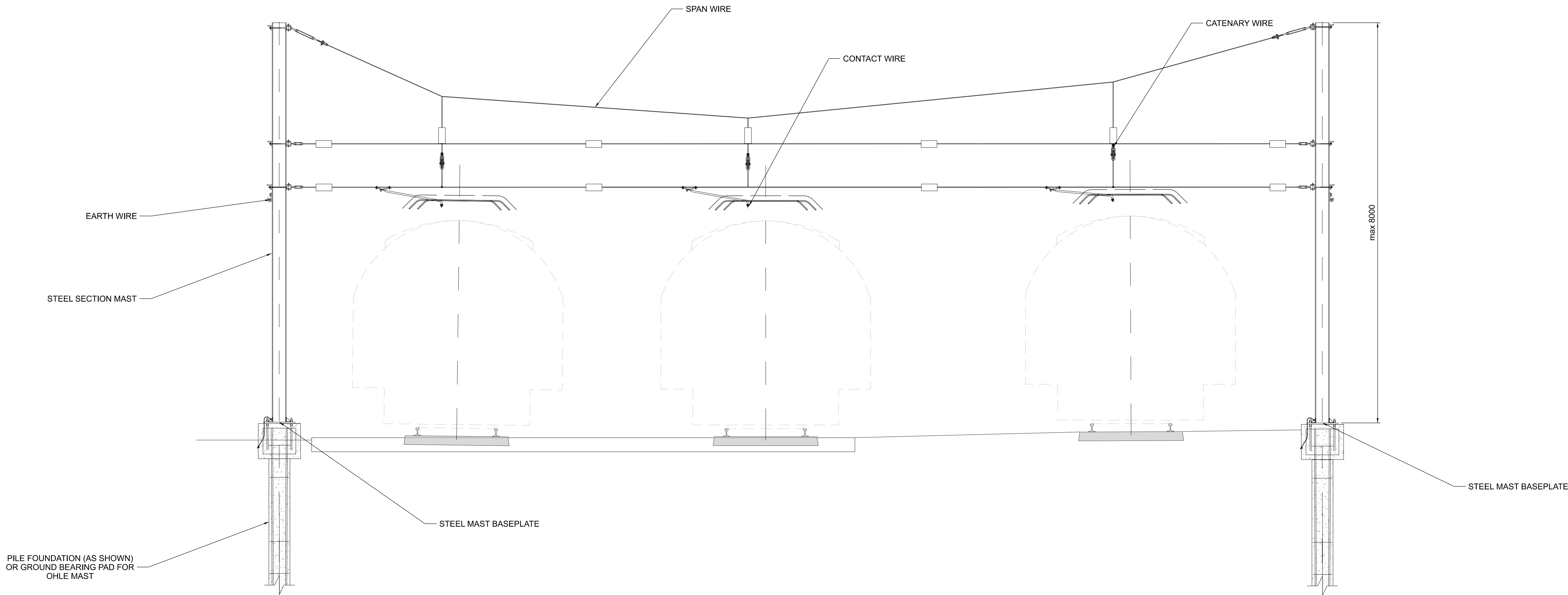
Project Title	DART+ COASTAL NORTH			
Drawing Title	TYPICAL OHLE ARRANGEMENTS SHEET 1 OF 2			
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200010	Sheet Number	01 of 02	Rev
Status	S3			P01

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  - FOR DETAILS OF OHLE STRUCTURES AT VIADUCTS AND AT THE PROPOSED RETAINING WALLS IN THE VICINITY OF CLONGRIFFIN AND MALAHIDE STATIONS REFER TO BOOK 3 STRUCTURES PLANS - SPECIFIC LOCATIONS DRAWINGS.

- LEGEND
- EXISTING ELEMENTS
- PROPOSED ELEMENTS



TYPICAL OHLE CROSS SECTION - HEADSPAN

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Tionscadal Éireann  
Project Ireland  
2040

Rev	Date	Dm	Chk'd	App'd	Description
P01	06/10/2023	CL	AR	CC	Planning Issue

Client



Date	06/10/2023
Project Code	D+WP56

Engineering Designer



Scale	1:50 @ A1 1:100 @ A3
Originator Code	ARUP
QMS Code	280275-00

Project Title

DART+ COASTAL NORTH

Drawing Title

TYPICAL OHLE ARRANGEMENTS SHEET 2 OF 2

Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200011	Sheet Number	02 of 02	Status	S3	Rev	P01
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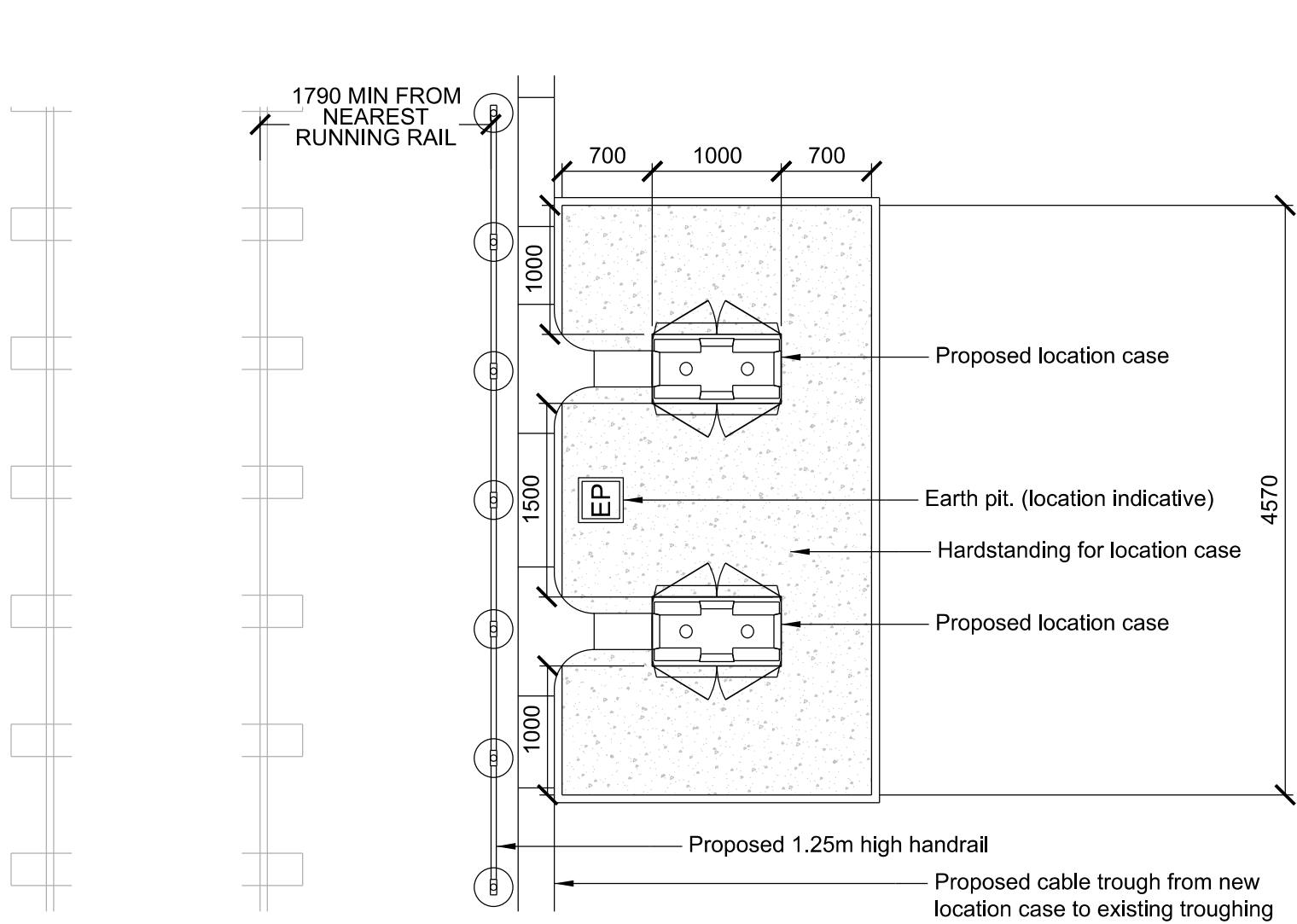
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

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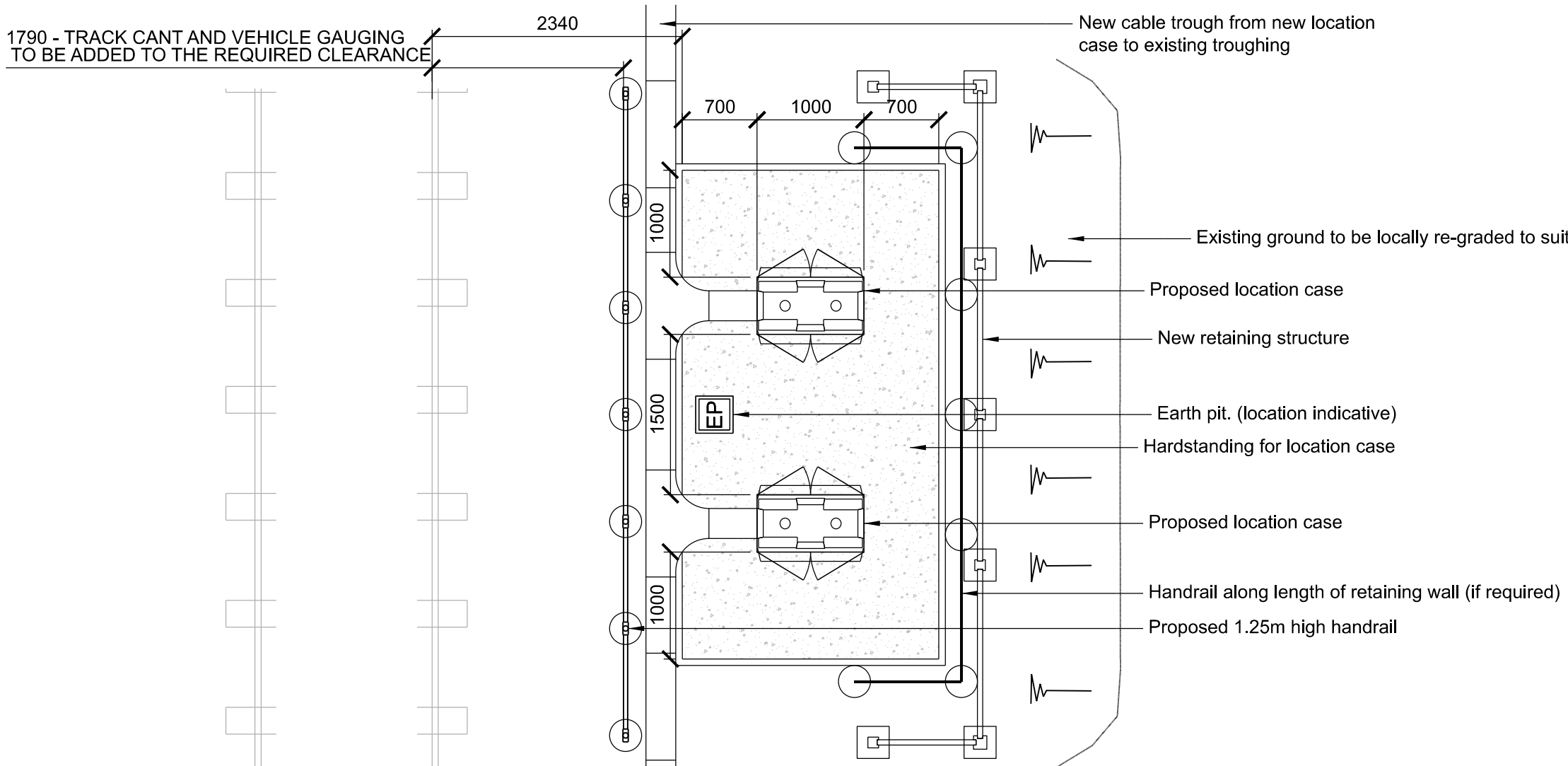
**LINESIDE CIVILS  
DETAILS**

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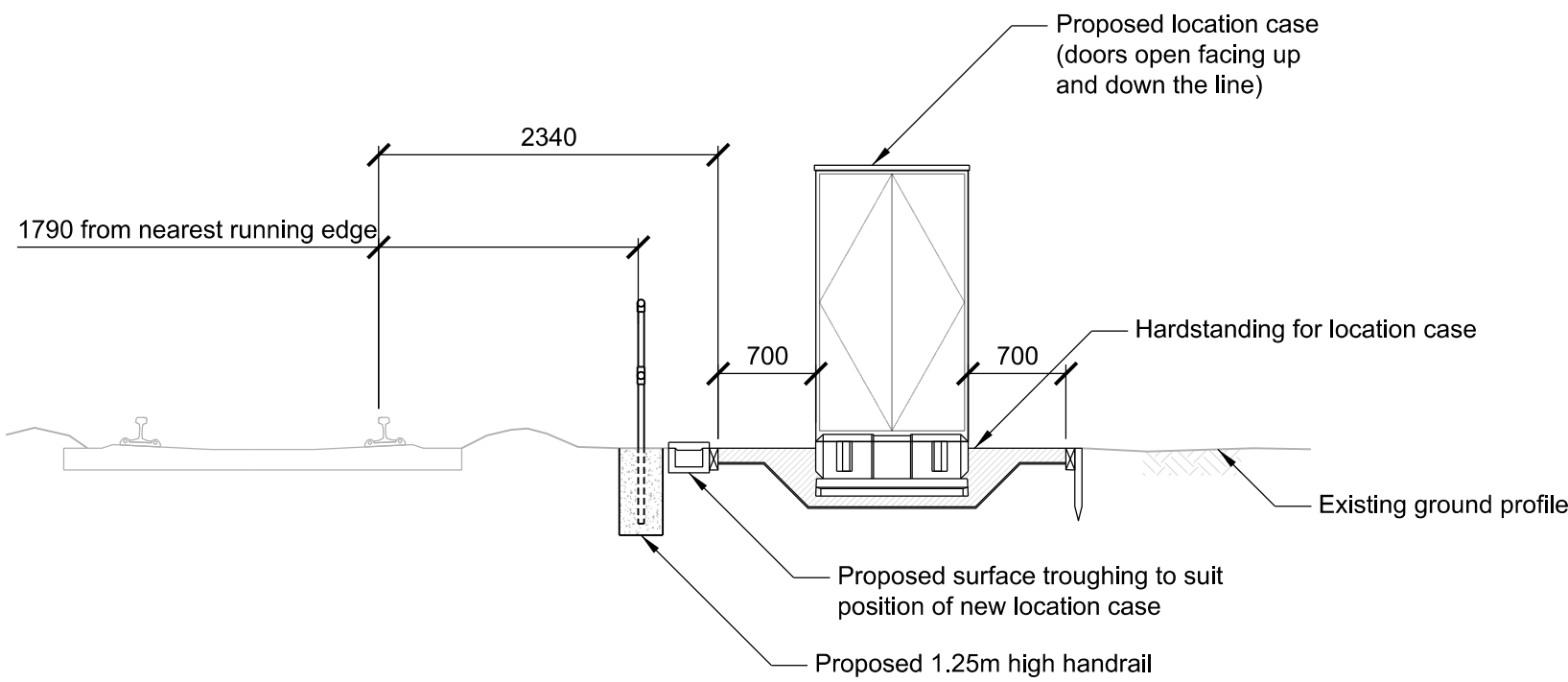
- Notes :
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  3. This drawing shall be read in conjunction with the other drawings included in this series.
  4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastruture.



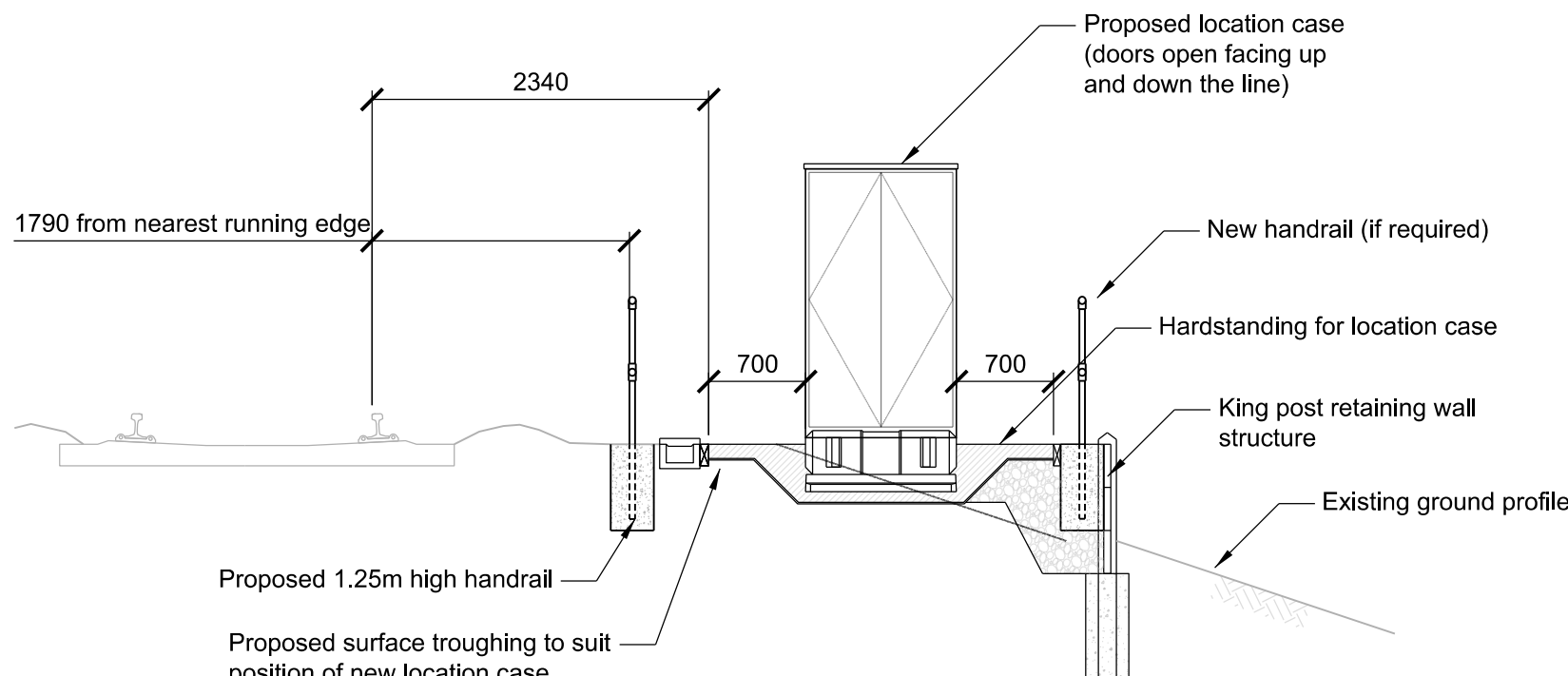
Level Ground - Plan  
Scale 1:50



Retaining on Embankment - Plan  
Scale 1:50



Level Ground - Section  
Scale 1:50



Retaining on Embankment  
Scale 1:50

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Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client



Date 03/11/2023  
Project Code D+WP56  
Scale AS SHOWN @ A1 @ A3  
Originator Code ARUP

Engineering Designer



Drawn JS  
Checked EJ  
Approved DB  
QMS Code 279933-00

Project Title

DART+ COASTAL NORTH

Drawing Title

LINESIDE CIVILS CABINET  
GENERAL DETAILS 1

Drawing File Name

D+WP56-ARP-P4-NL-DR-RO-200021

Sheet Number

1 of 1

Status

S3

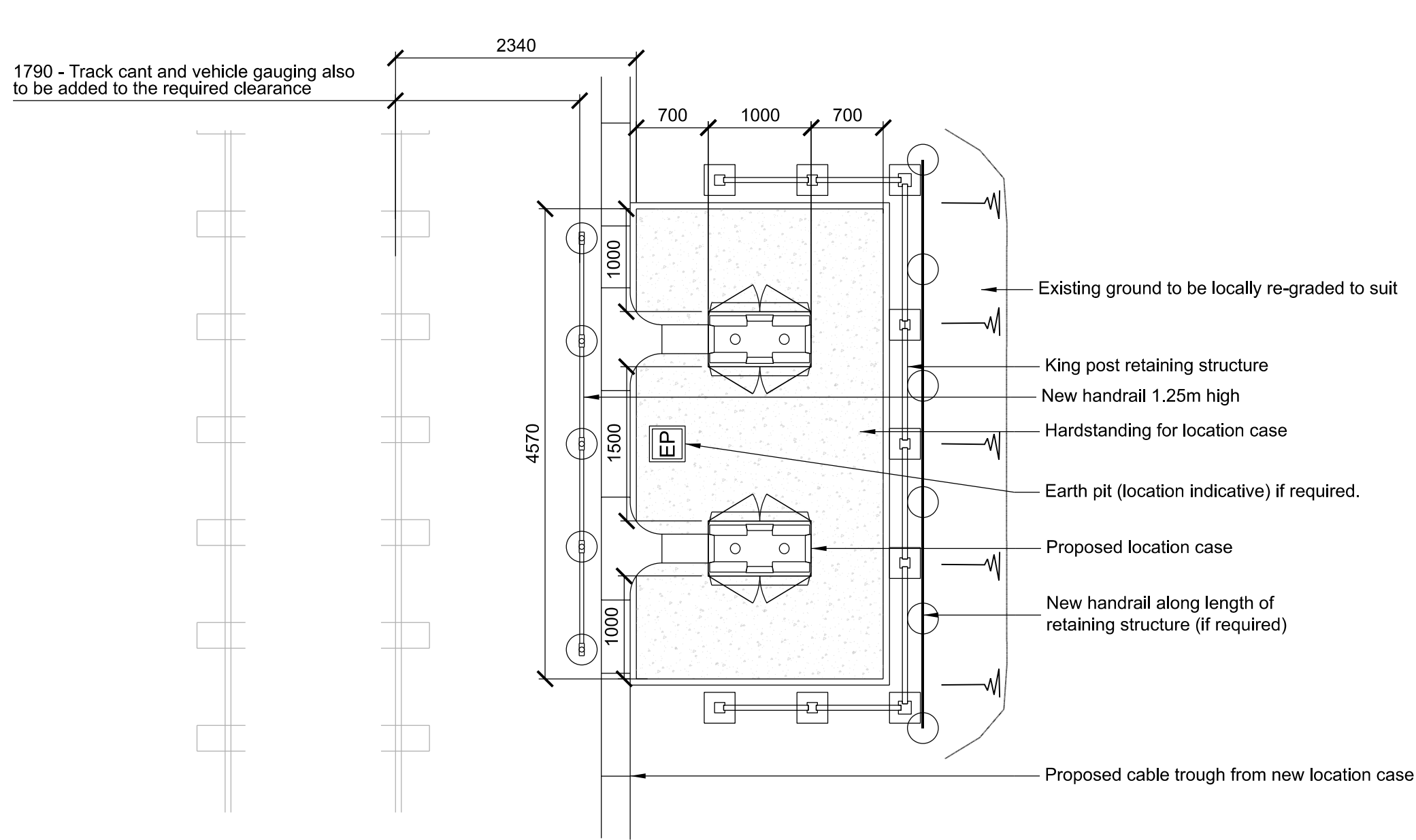
Rev

P01

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

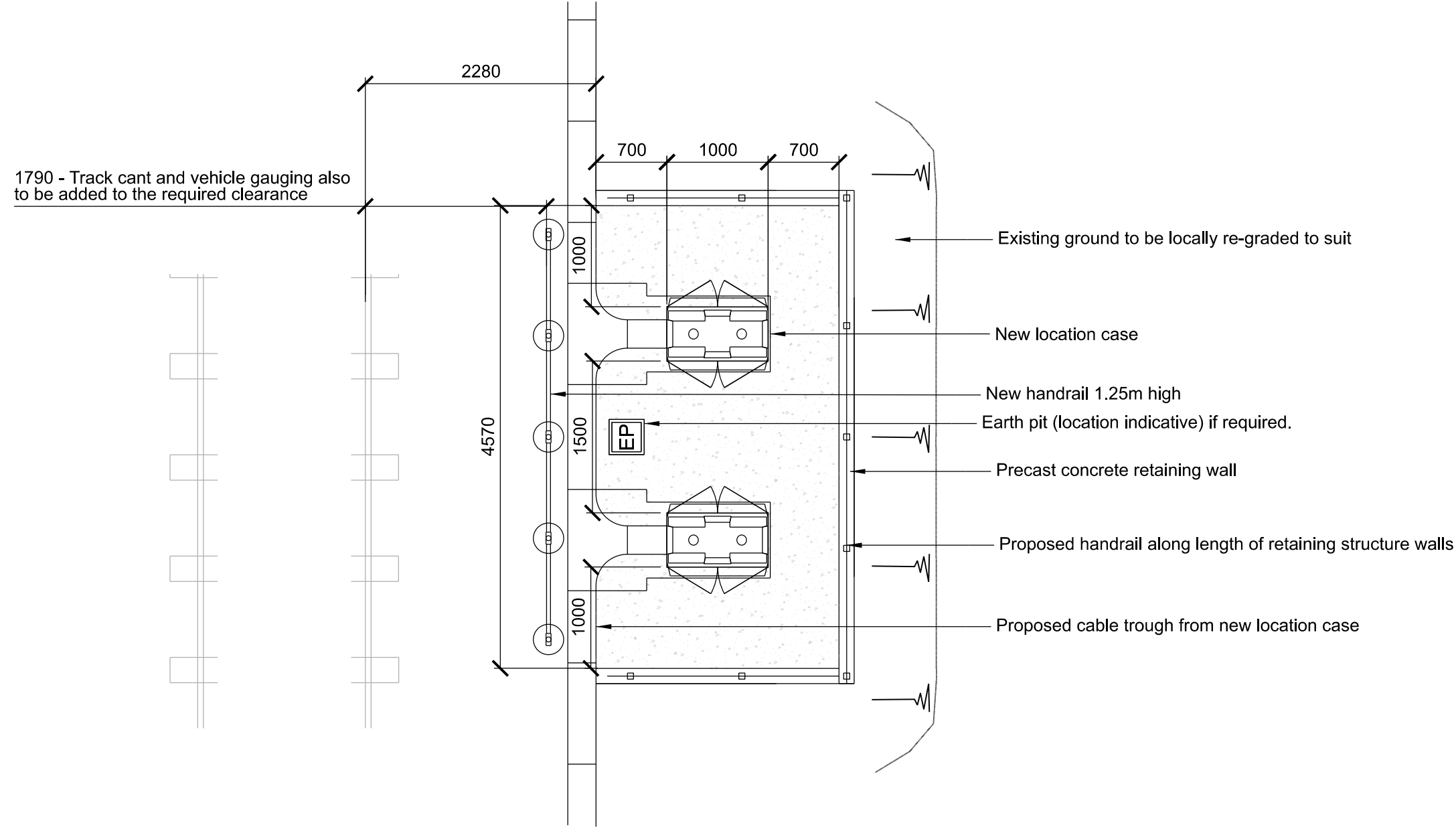


- Notes :
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  3. This drawing shall be read in conjunction with the other drawings included in this series.
  4. Refer to Book 3 Linear Works Plans For Location of Lineside Civil Infrastructure



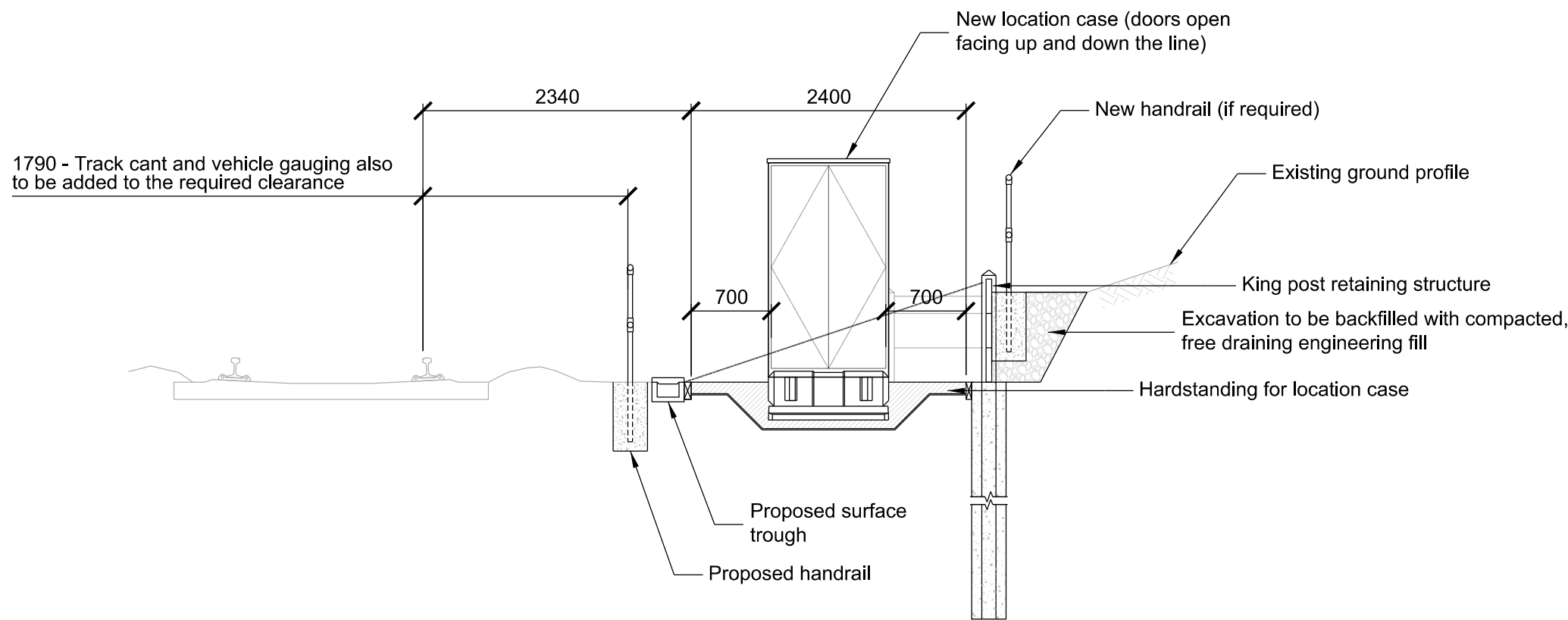
Retaining in Cutting - Plan

Scale 1:50



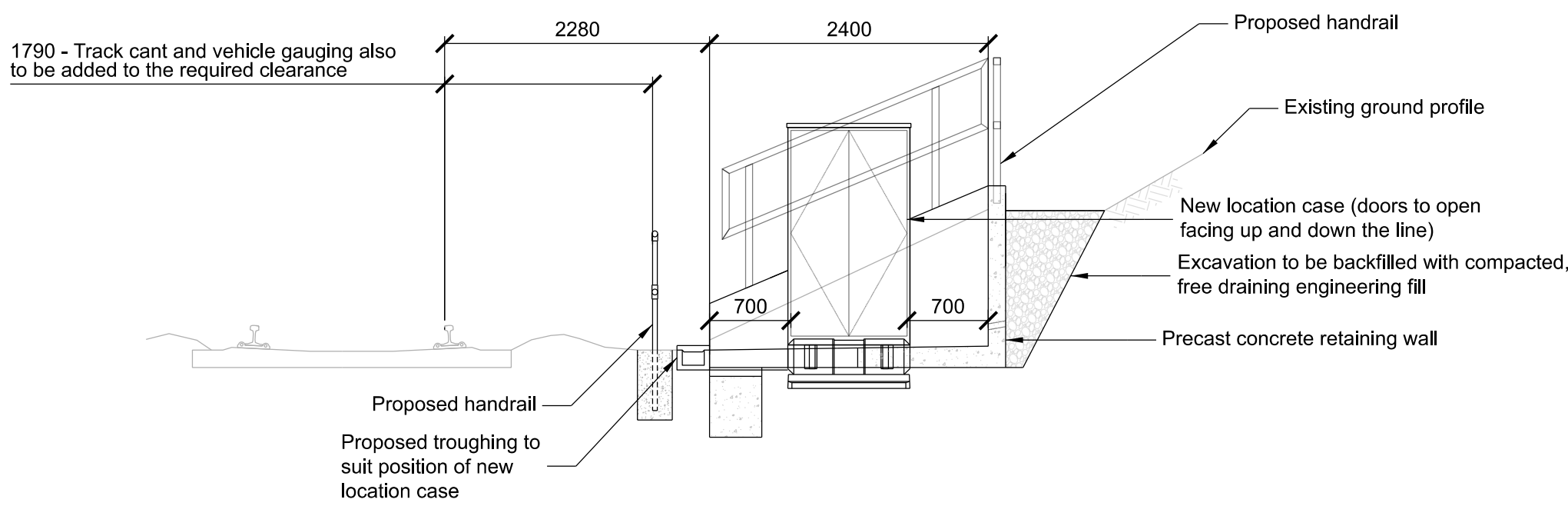
Retaining in Cutting - Plan

Scale 1:50



2 Cabinets  
Retaining in Cutting (King Post Wall) - Section

Scale 1:50



2 Cabinets  
Retaining in Cutting (Pre-cast Concrete Wall) - Section

Scale 1:50

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Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client



Date 03/11/2023

Scale AS SHOWN @ A1 @ A3

Project Code D+WP56

Originator Code ARUP

Engineering Designer



Drawn JS

Checked EJ

Approved DB

QMS Code 279933-00

Project Title

DART+ COASTAL NORTH

Drawing Title

LINESIDE CIVILS CABINET  
GENERAL DETAILS 2

Drawing File Name

D+WP56-ARP-P4-NL-DR-RO-200022

Sheet Number

1 of 1

Status

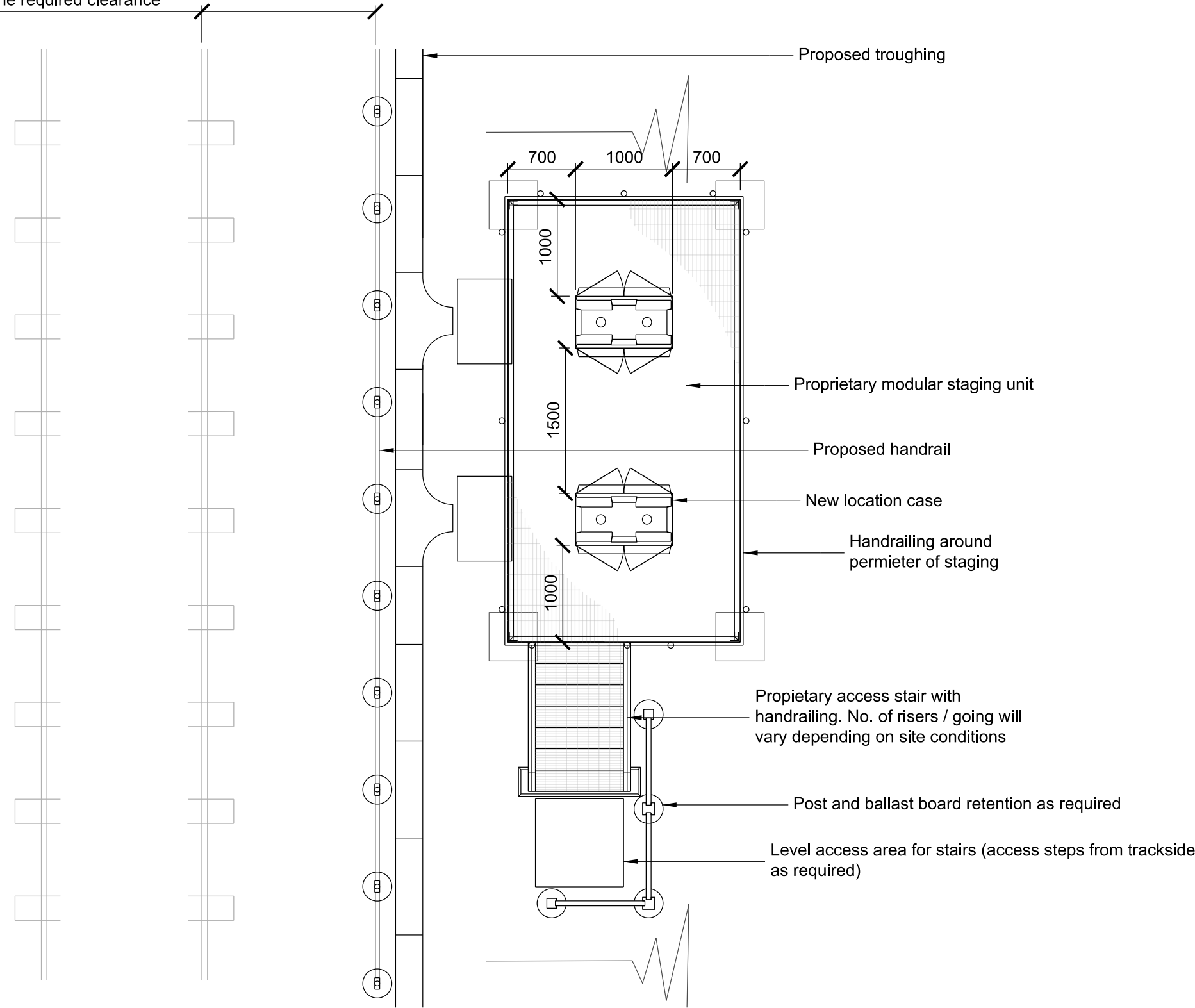
S3

Rev

P01

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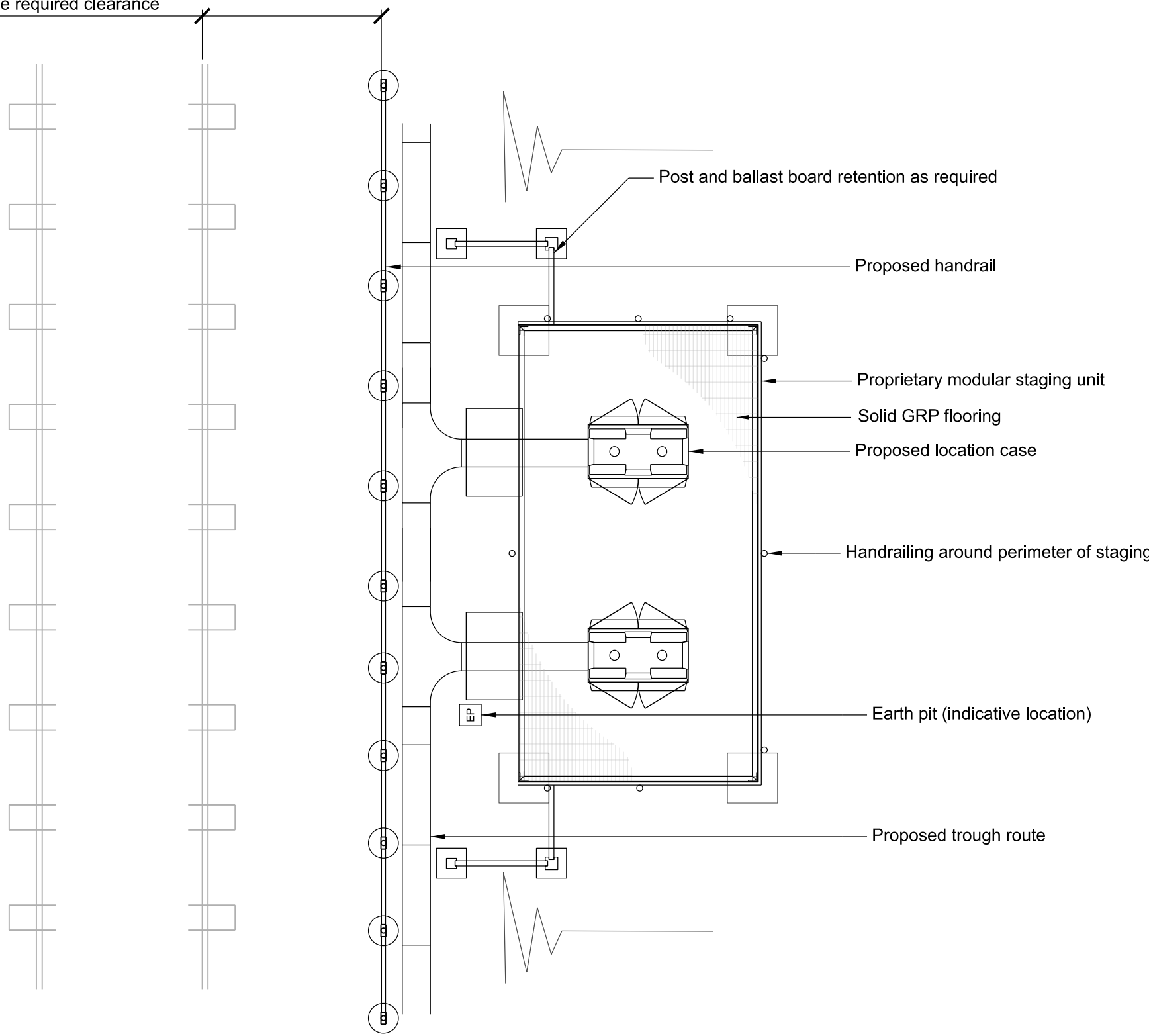
1790 - Track cant and vehicle gauging also to be added to the required clearance



Staging in Cutting - Plan

Scale 1:50

1790 - Track cant and vehicle gauging also to be added to the required clearance

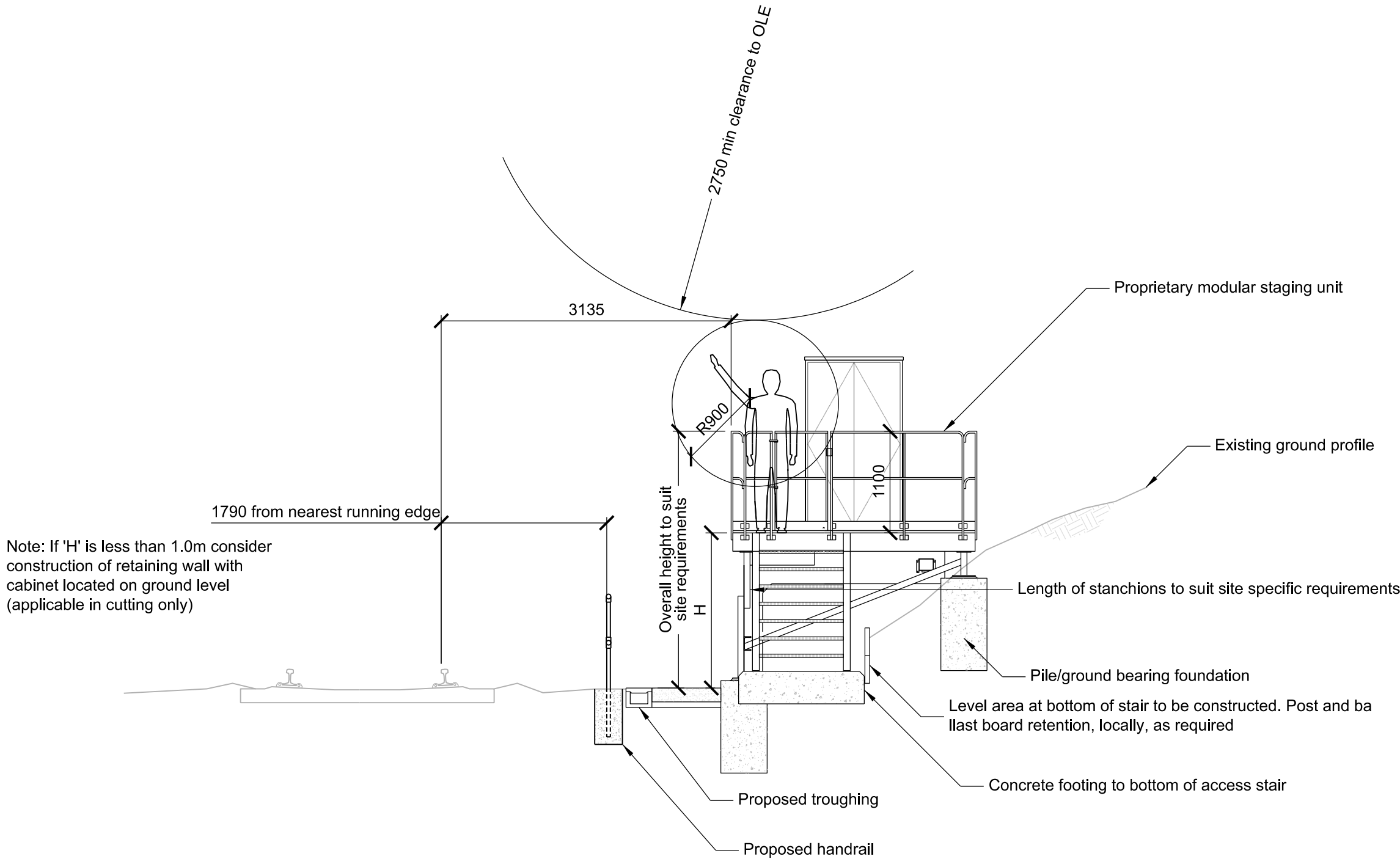


Staging on Embankment - Plan

Scale 1:50

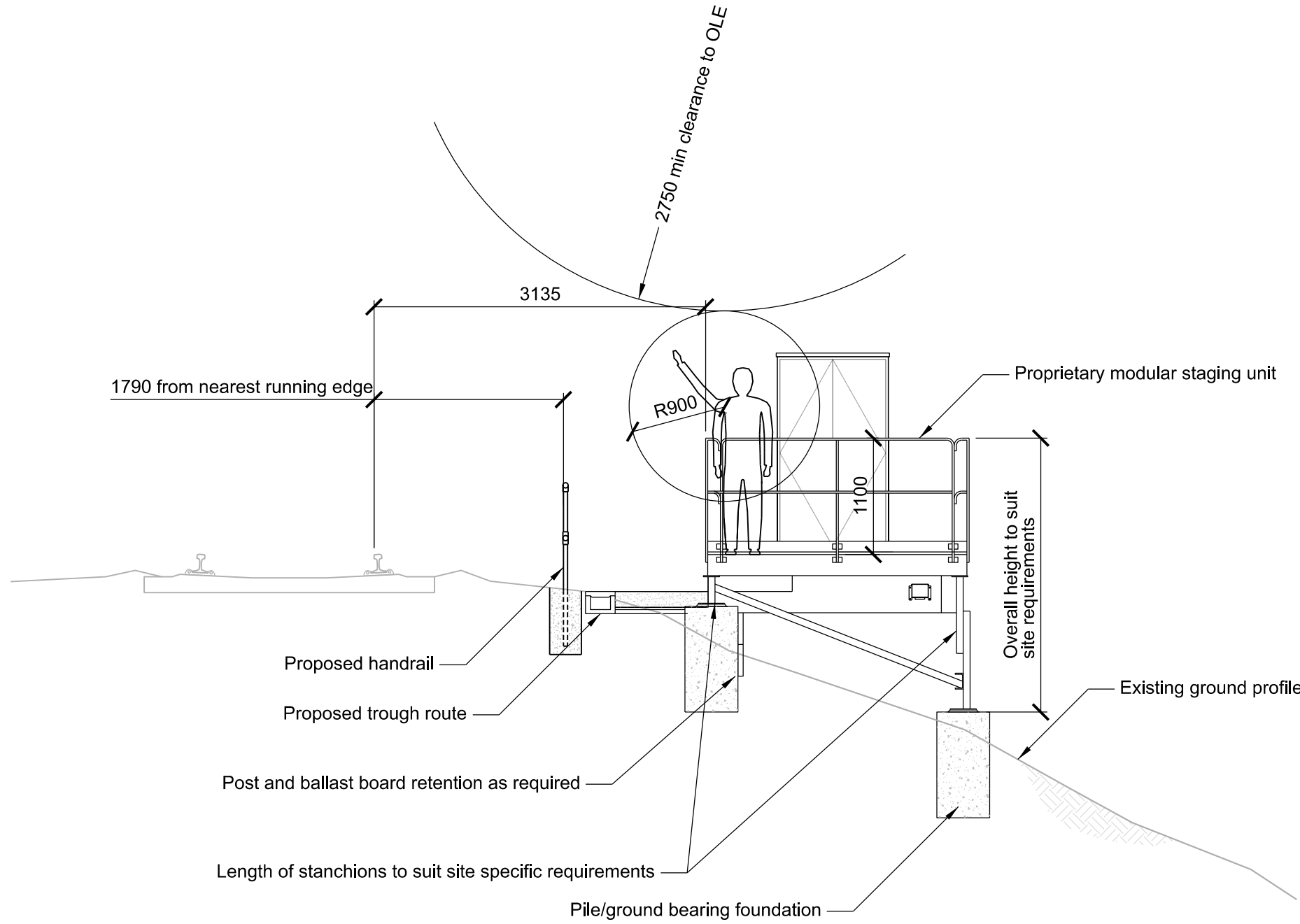
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3. This drawing shall be read in conjunction with the other drawings included in this series.
4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastructure.



2 Cabinets  
Staging in Cutting - Section

Scale 1:50



2 Cabinets  
Staging on Embankments

Scale 1:50

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Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client



Engineering Designer



Project Title

DART+ COASTAL NORTH

Drawing Title

LINESIDE CIVILS CABINET  
GENERAL DETAILS 3

Date 03/11/2023

Scale AS SHOWN @ A1 @ A3

Drawn JS

Checked EJ

Approved DB

Project Code D+WP56

Originator Code ARUP

QMS Code

279933-00

Drawing File Name

D+WP56-ARP-P4-NL-DR-RO-200023

Sheet Number

1 of 1

Status

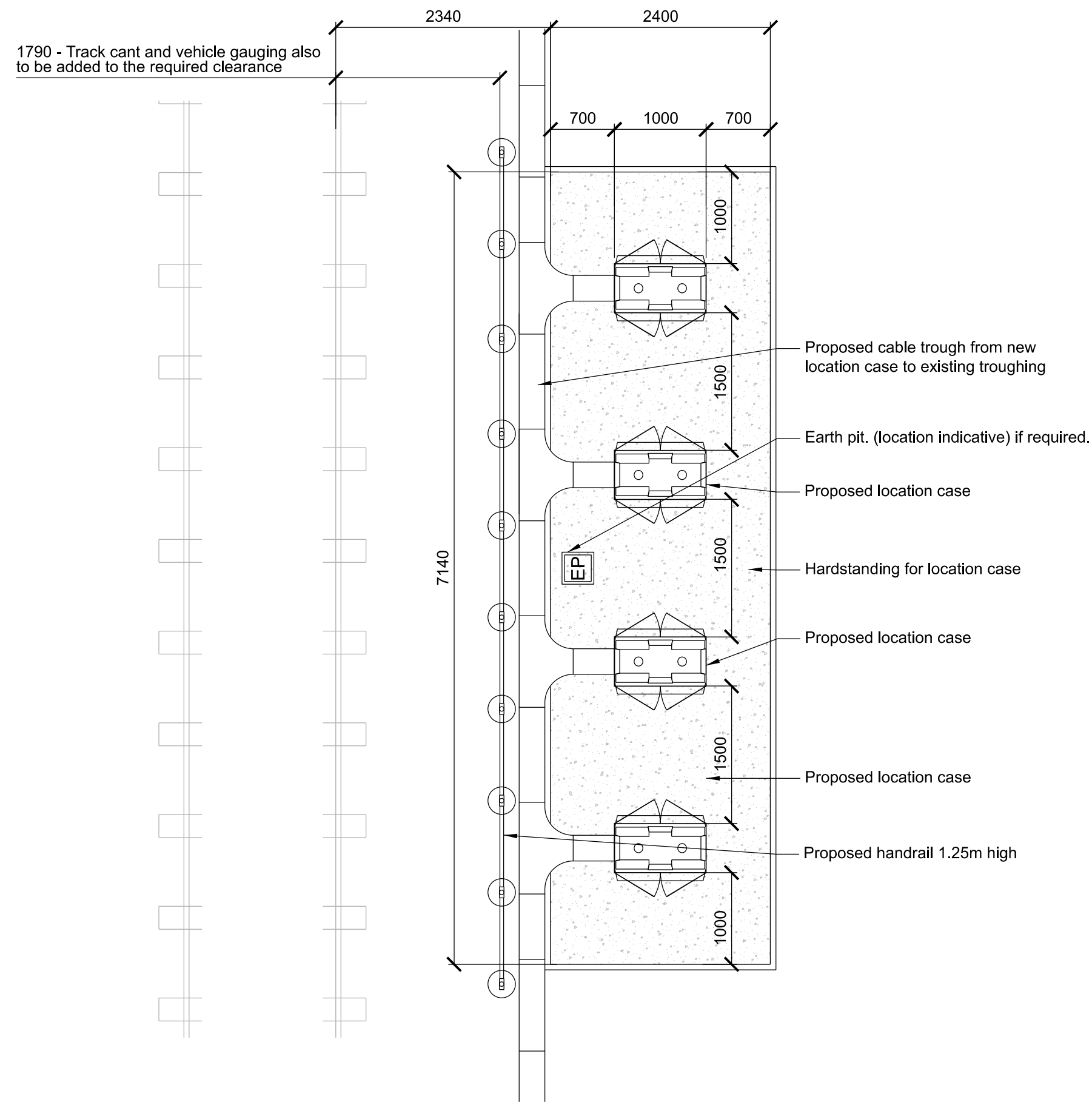
S3

Rev

P01

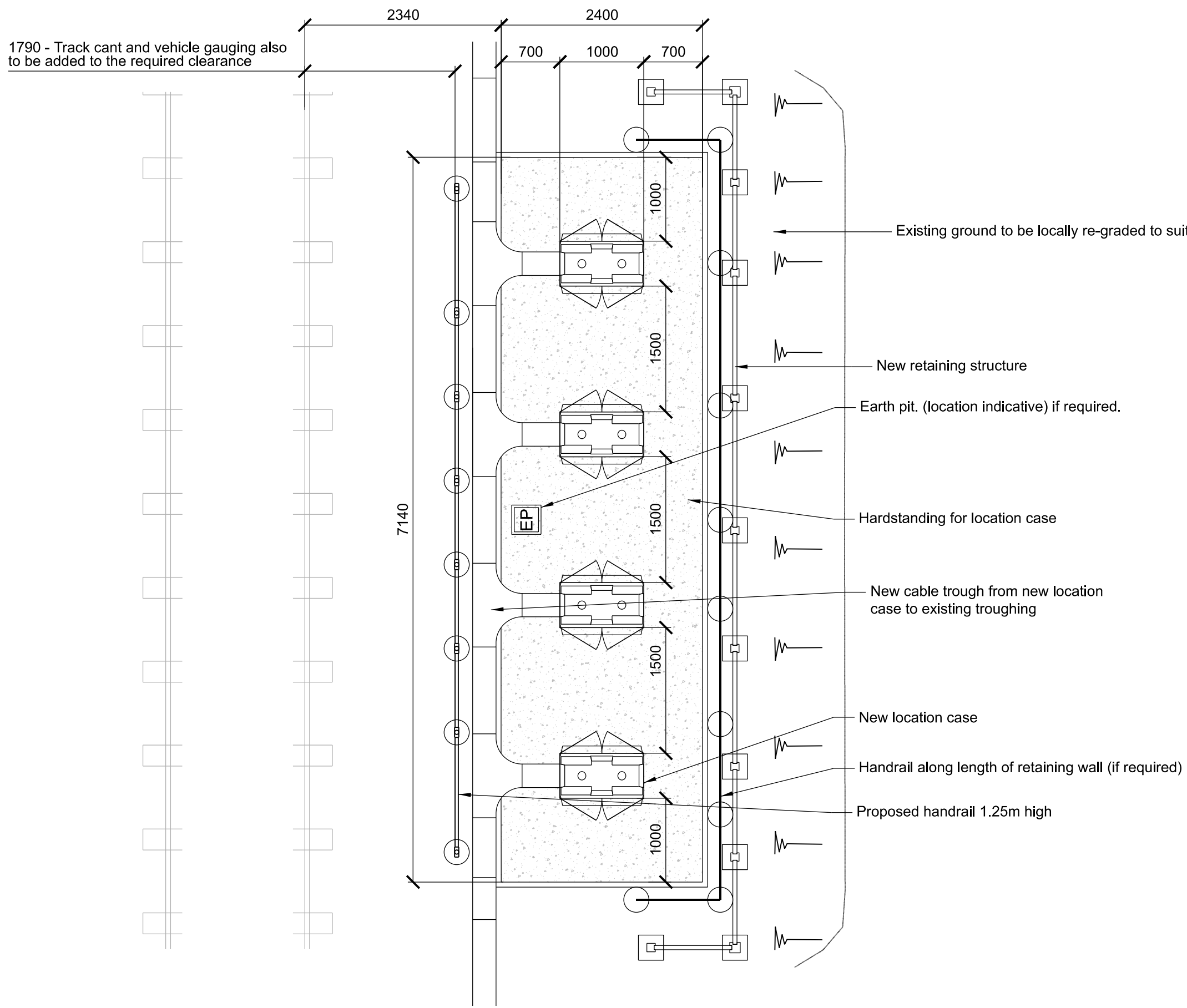
DO NOT SCALE USE FIGURED DIMENSIONS ONLY





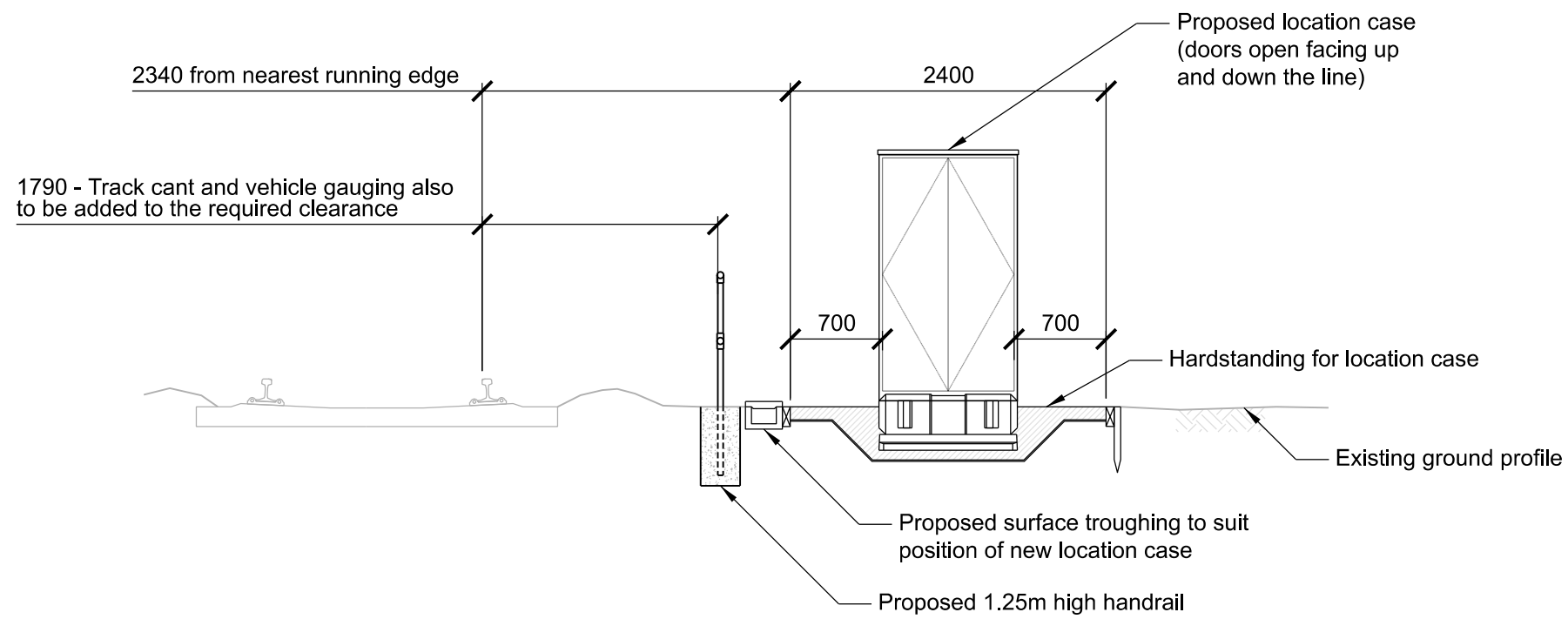
Level Ground - Plan

Scale 1:50



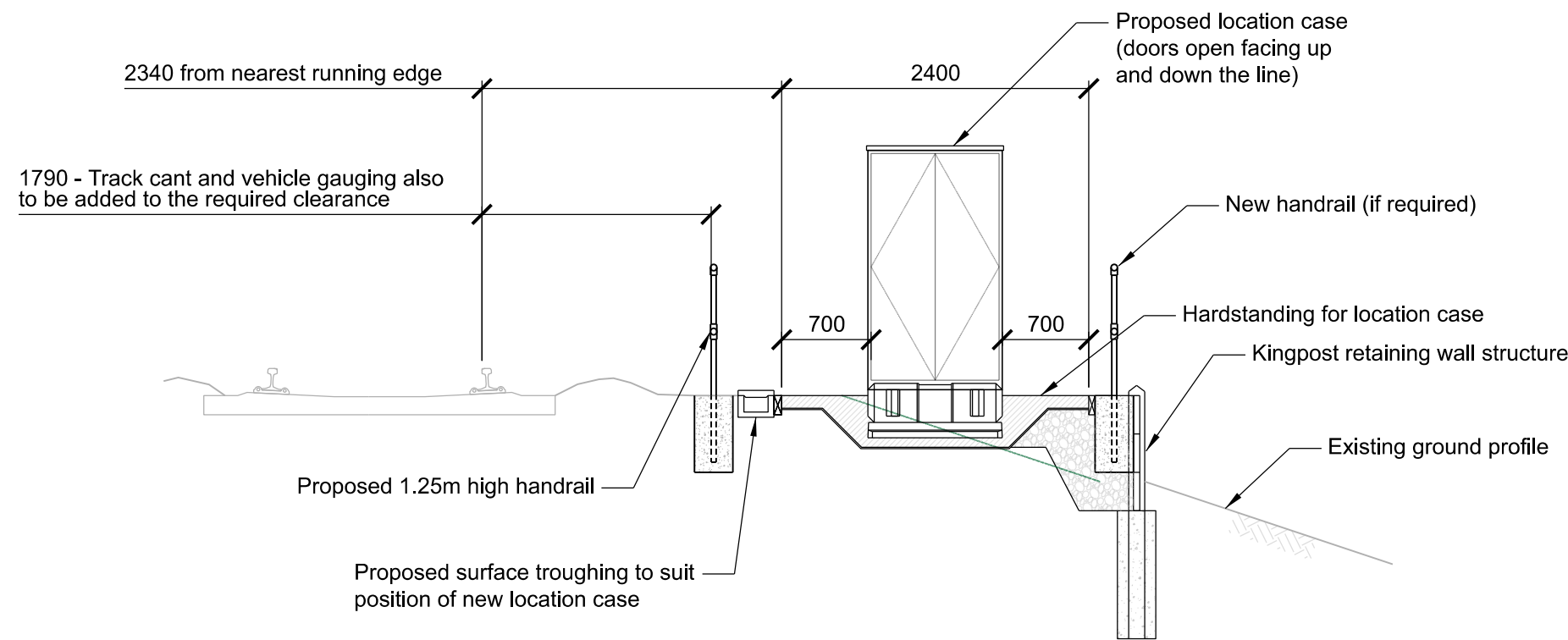
Retaining on Embankment - Plan

Scale 1:50



4 Cabinets  
Level Ground - Section

Scale 1:50



4 Cabinets  
Retaining on Embankment - Section

Scale 1:50

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  4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastructure.

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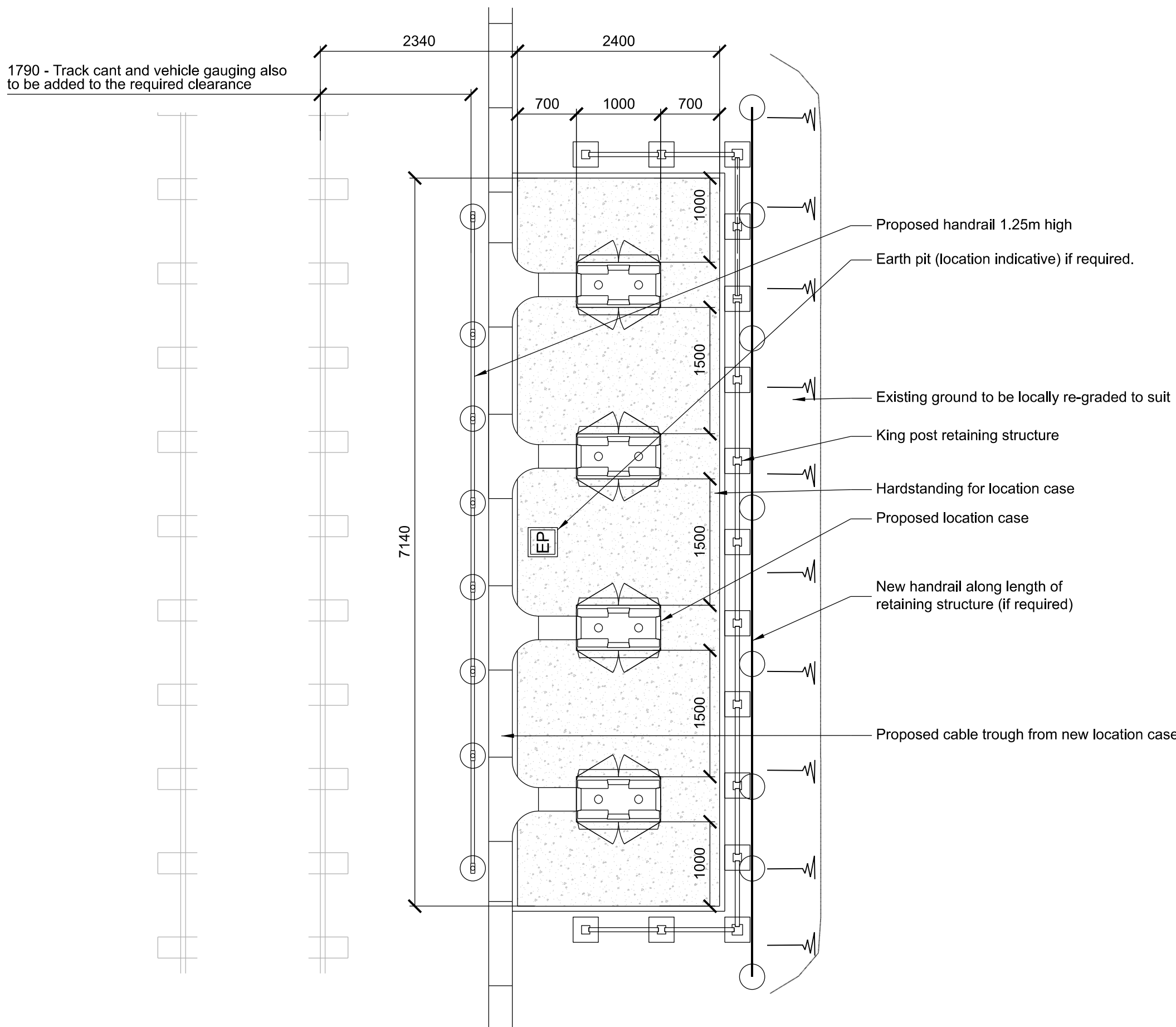
Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client			Engineering Designer						
									
Date	03/11/2023	Scale	AS SHOWN @ A1 @ A3	Drawn	JS	Checked	EJ	Approved	DB
Project Code	D+WP56	Originator Code	ARUP	QMS Code	279933-00				

Project Title				
DART+ COASTAL NORTH				
Drawing Title				
LINESIDE CIVILS CABINET GENERAL DETAILS 4				
Drawing File Name		Sheet Number	Status	Rev
D+WP56-ARP-P4-NL-DR-RO-200026		1 of 1	S3	P01

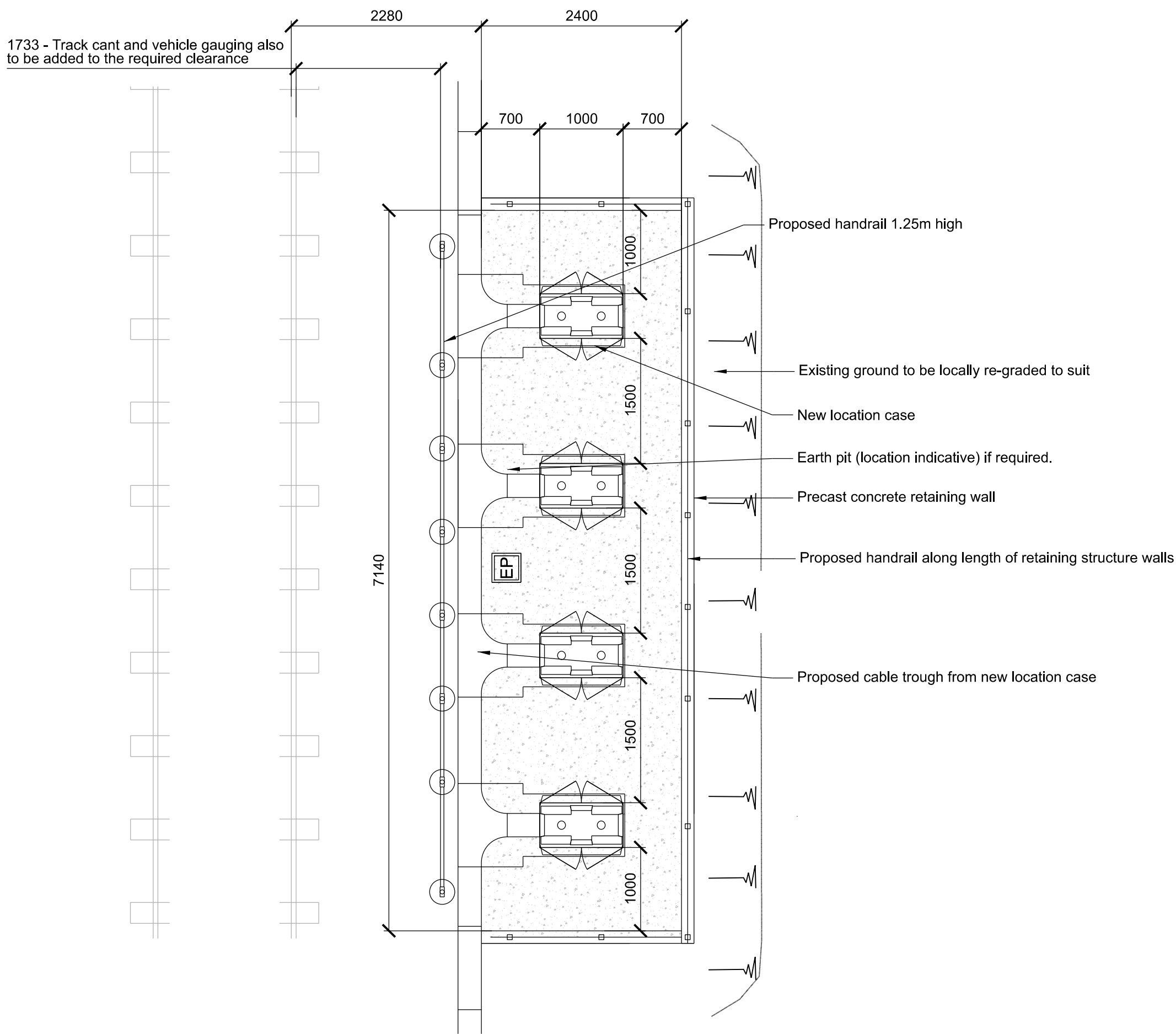
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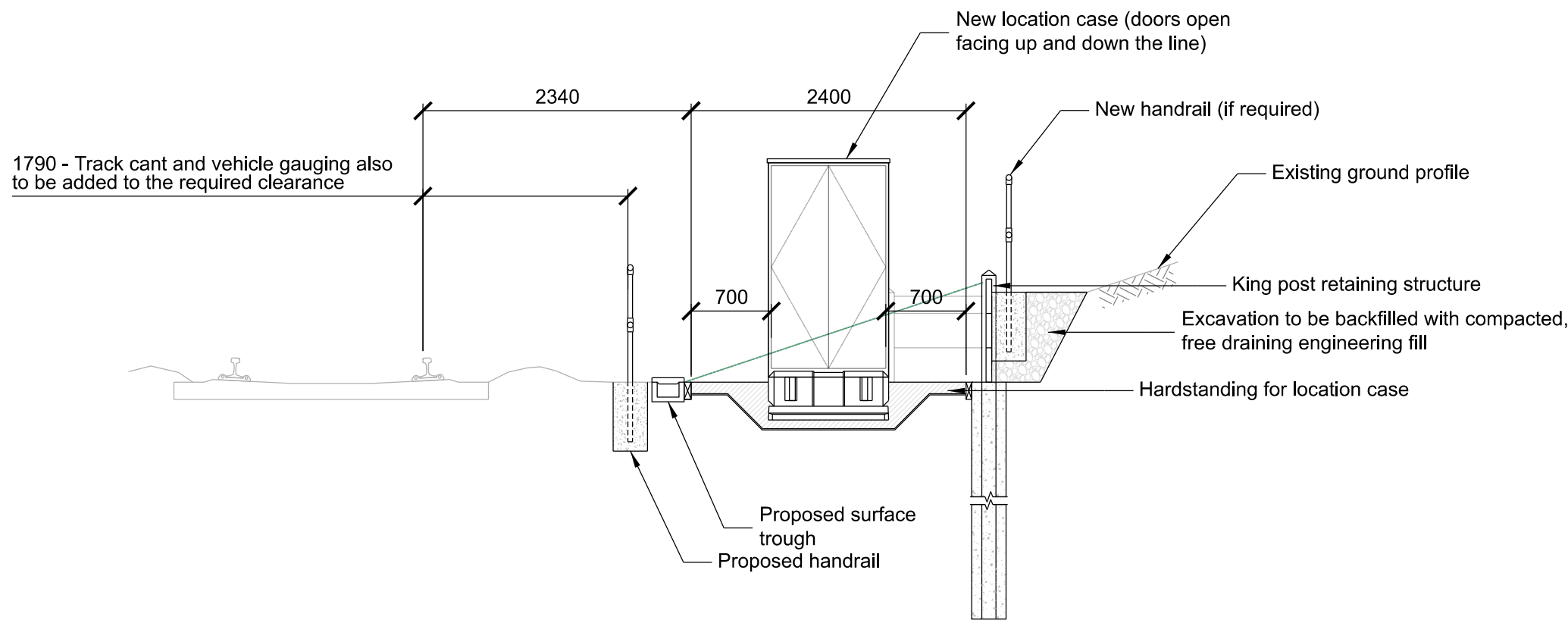
Retaining in Cutting - Plan

Scale 1:50



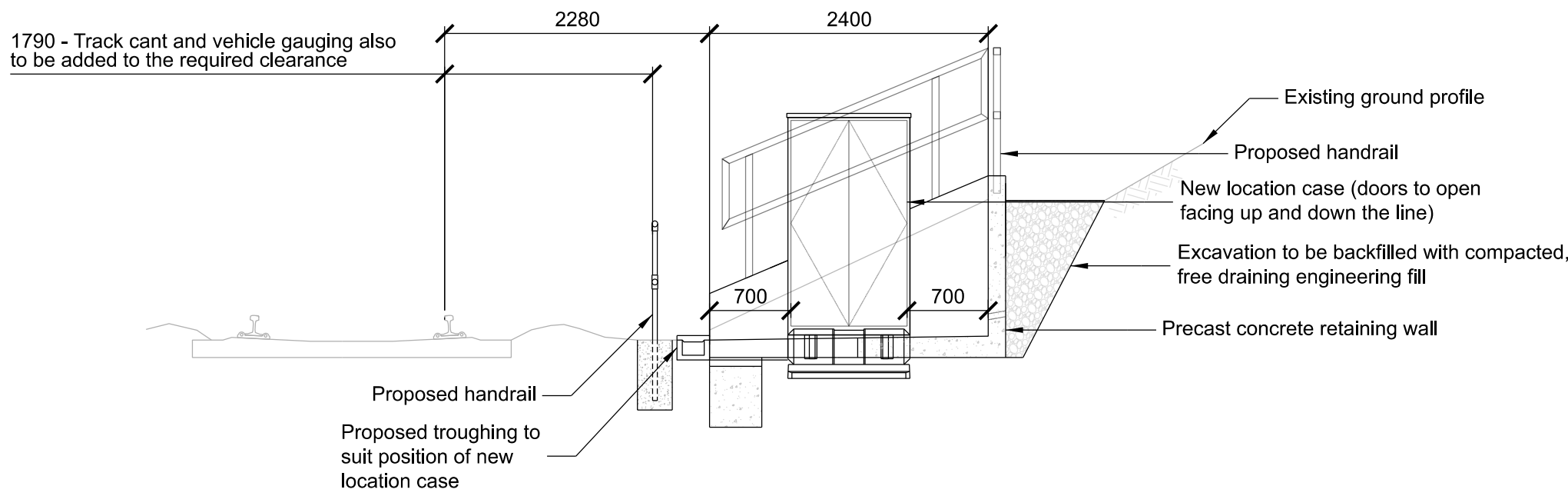
Retaining in Cutting - Plan

Scale 1:50



4 Cabinets  
Retaining in Cutting (King Post Wall) - Section

Scale 1:50



4 Cabinets  
Retaining in Cutting (Pre-cast Concrete Wall) - Section

Scale 1:50

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Rev	Date	Drm	Chk'd	App'd	Description
P01	24/11/2023	JC	EJ	DB	PLANNING ISSUE

Client



Engineering Designer



Project Title

DART+ COASTAL NORTH

Drawing Title

LINESIDE CIVILS CABINET  
GENERAL DETAILS 5

Date

03/11/2023

Scale

AS SHOWN

@ A1

@ A3

Drawn

JC

Checked

EJ

Approved

DB

Project Code

D+WP56

Originator Code

ARUP

QMS Code

279933-00

Drawing File Name

D+WP56-ARP-P4-NL-DR-RO-200027

Sheet Number

1 of 1

Status

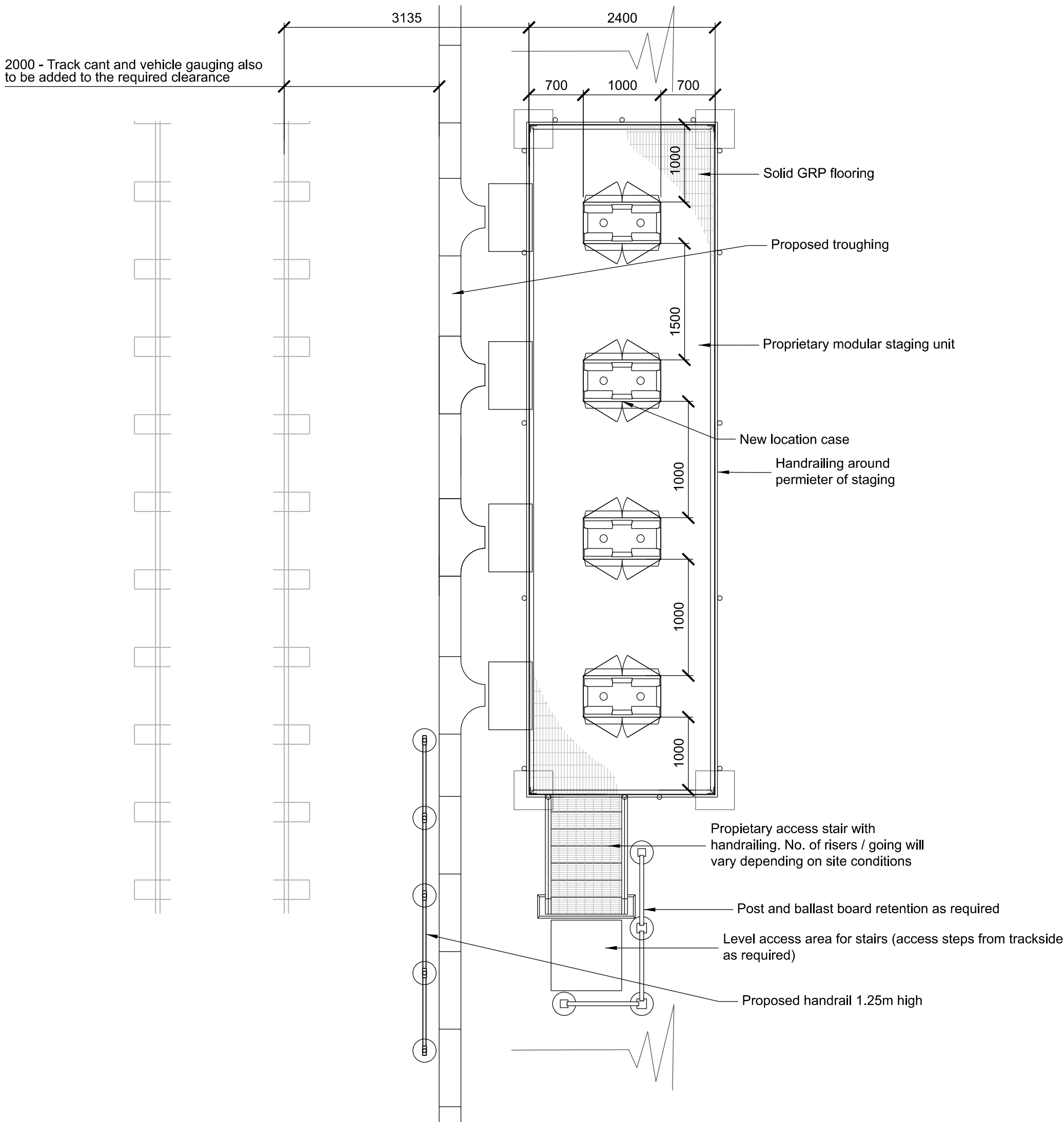
S3

Rev

P01

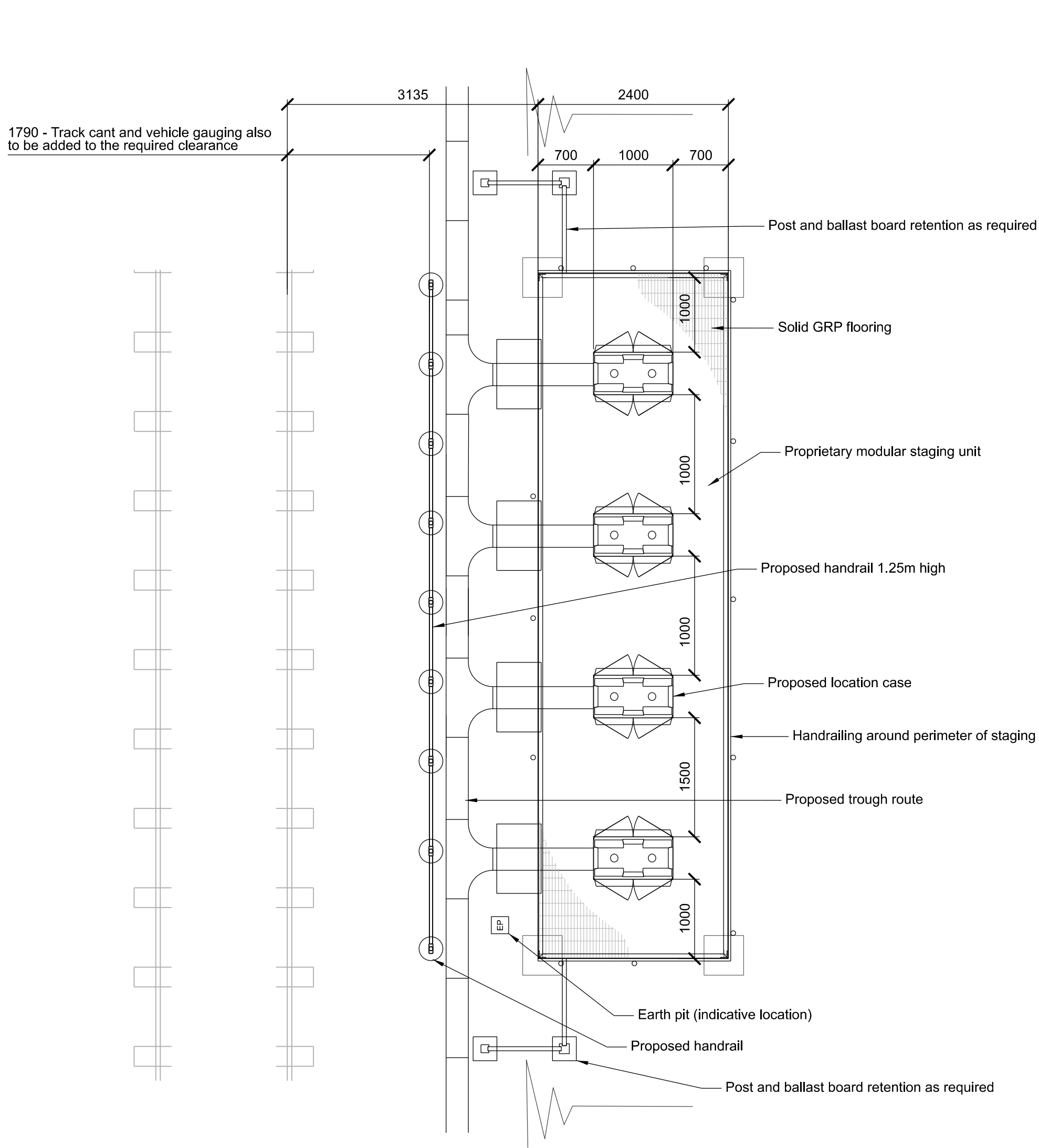
DO NOT SCALE USE FIGURED DIMENSIONS ONLY





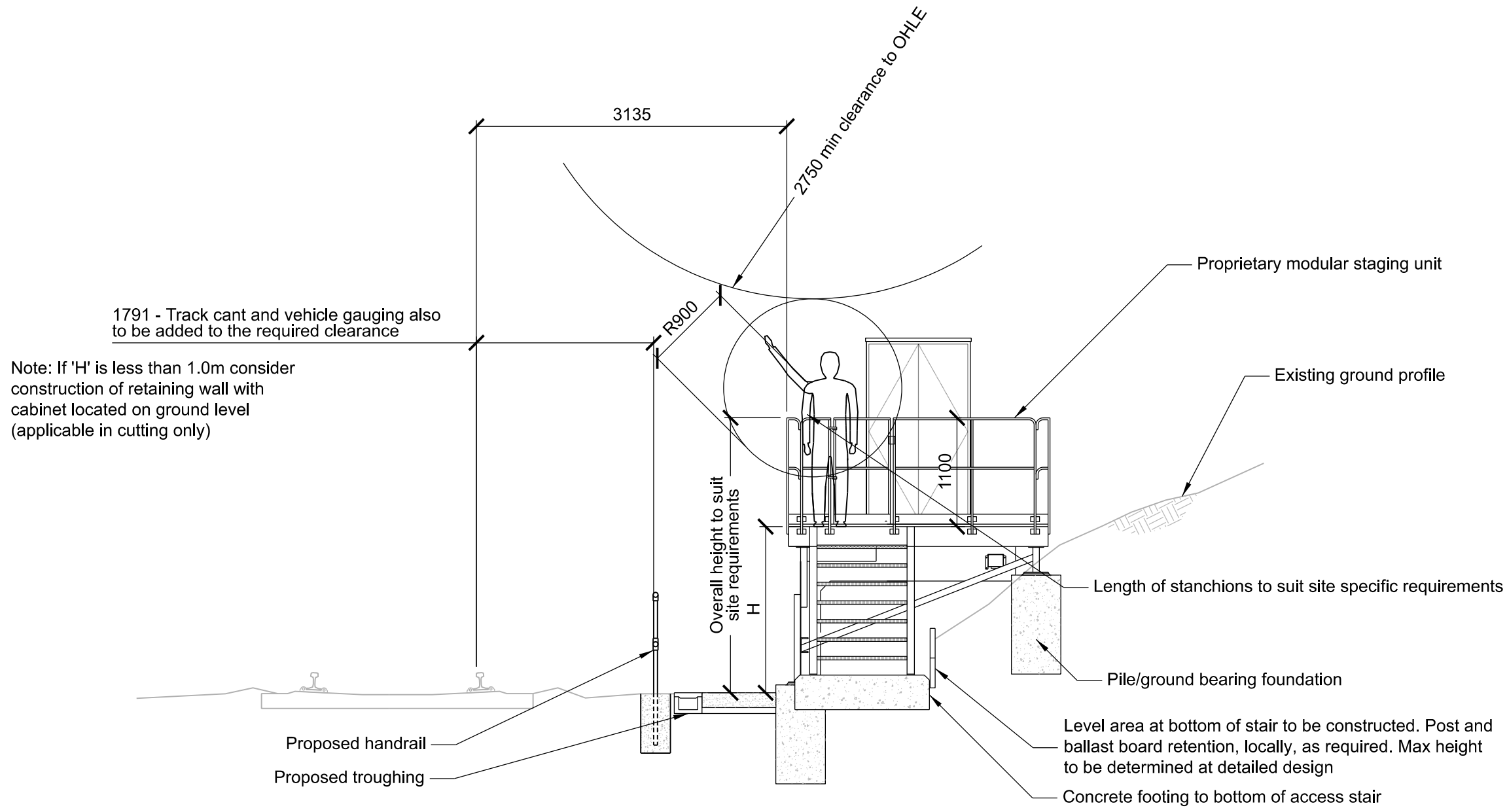
Staging in Cutting - Plan

Scale 1:50



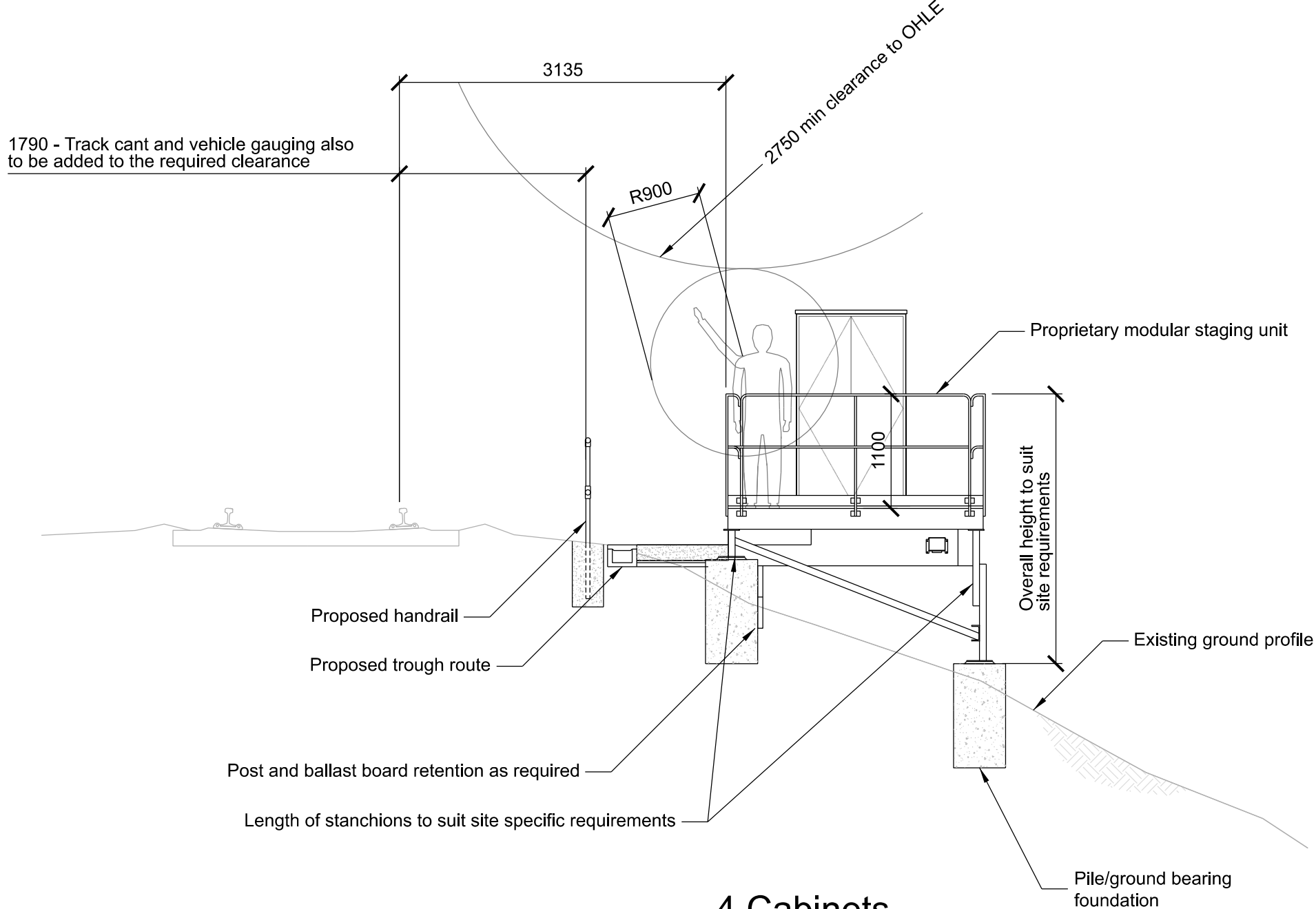
Staging on Embankment - Plan

Scale 1:50



4 Cabinets  
Staging in Cutting - Section

Scale 1:50



4 Cabinets  
Staging on Embankment

Scale 1:50

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  3. This drawing shall be read in conjunction with the other drawings included in this series.
  4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastructure

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Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JC	EJ	DB	PLANNING ISSUE

Client



Engineering Designer



Project Title

DART+ COASTAL NORTH

Drawing Title

LINESIDE CIVILS CABINET  
GENERAL DETAILS 6

Date

03/11/2023

Scale

AS SHOWN

@ A1

@ A3

Drawn

JC

Checked

EJ

Approved

DB

Project Code

D+WP56

Originator Code

ARUP

QMS Code

279933-00

Drawing File Name

D+WP56-ARP-P4-NL-DR-RO-200028

Sheet Number

1 of 1

Status

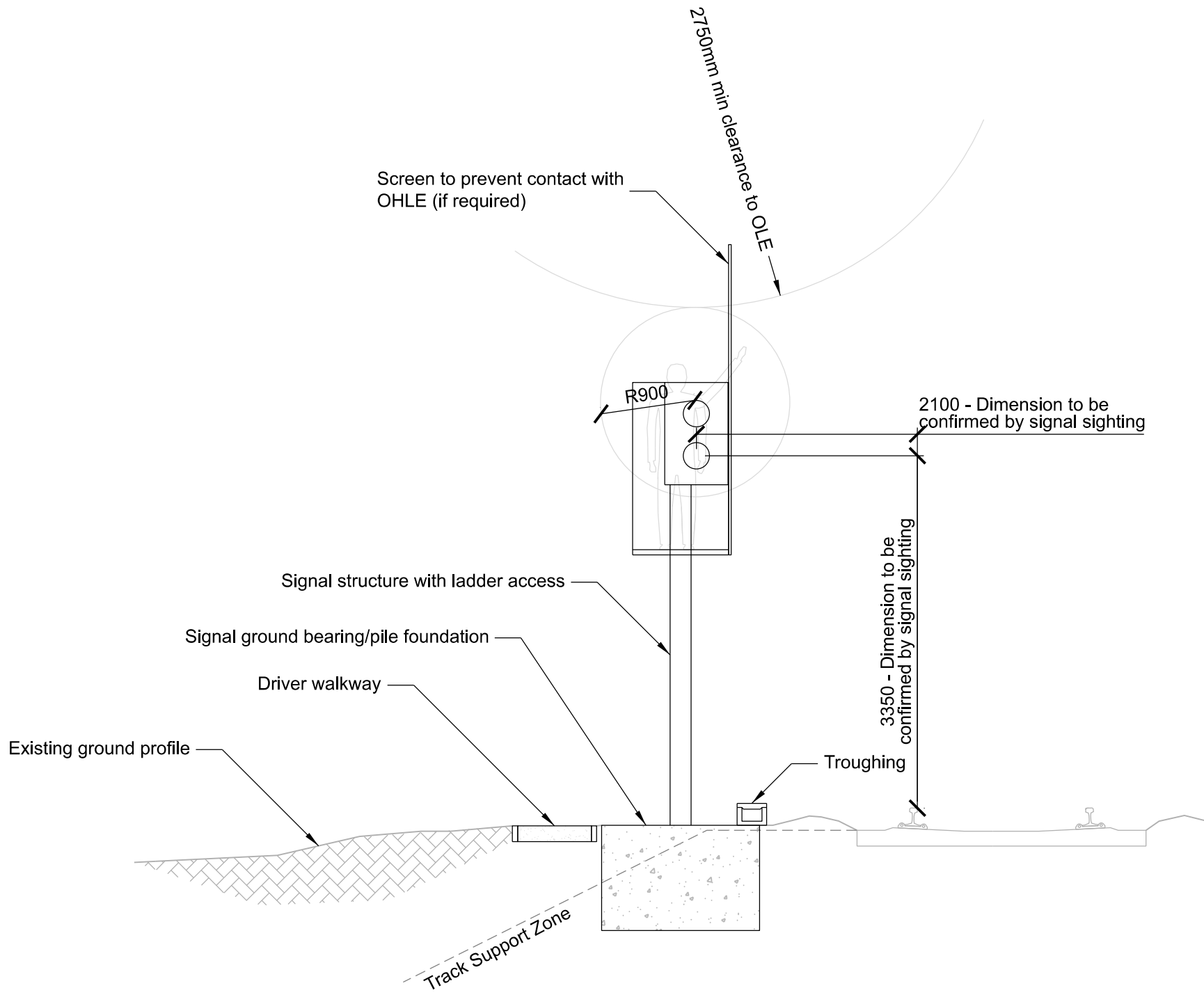
S3

Rev

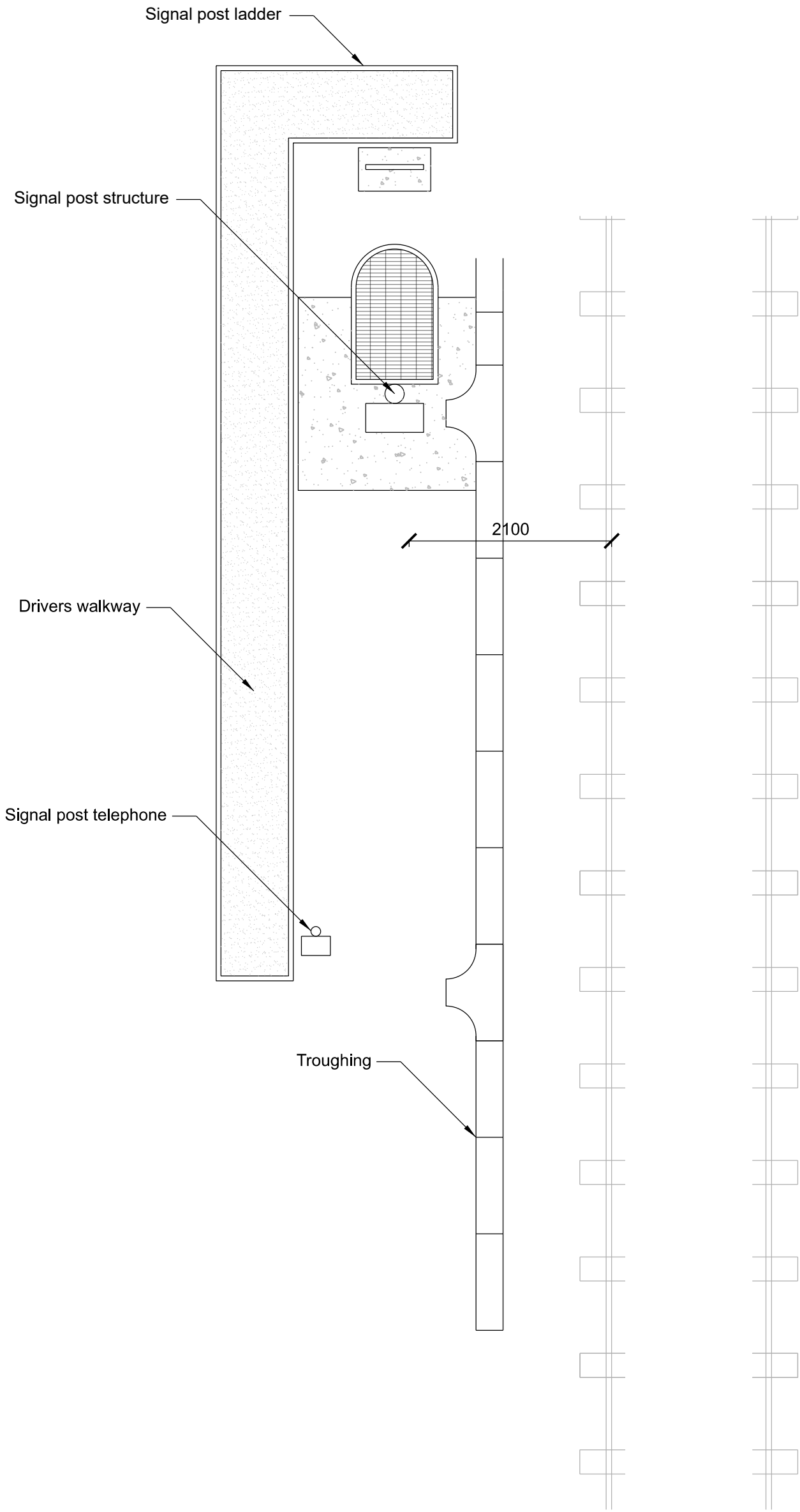
P01

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Typical Section Through Signal  
Scale 1:50



Plan View on Typical Signal Structure  
Scale 1:50

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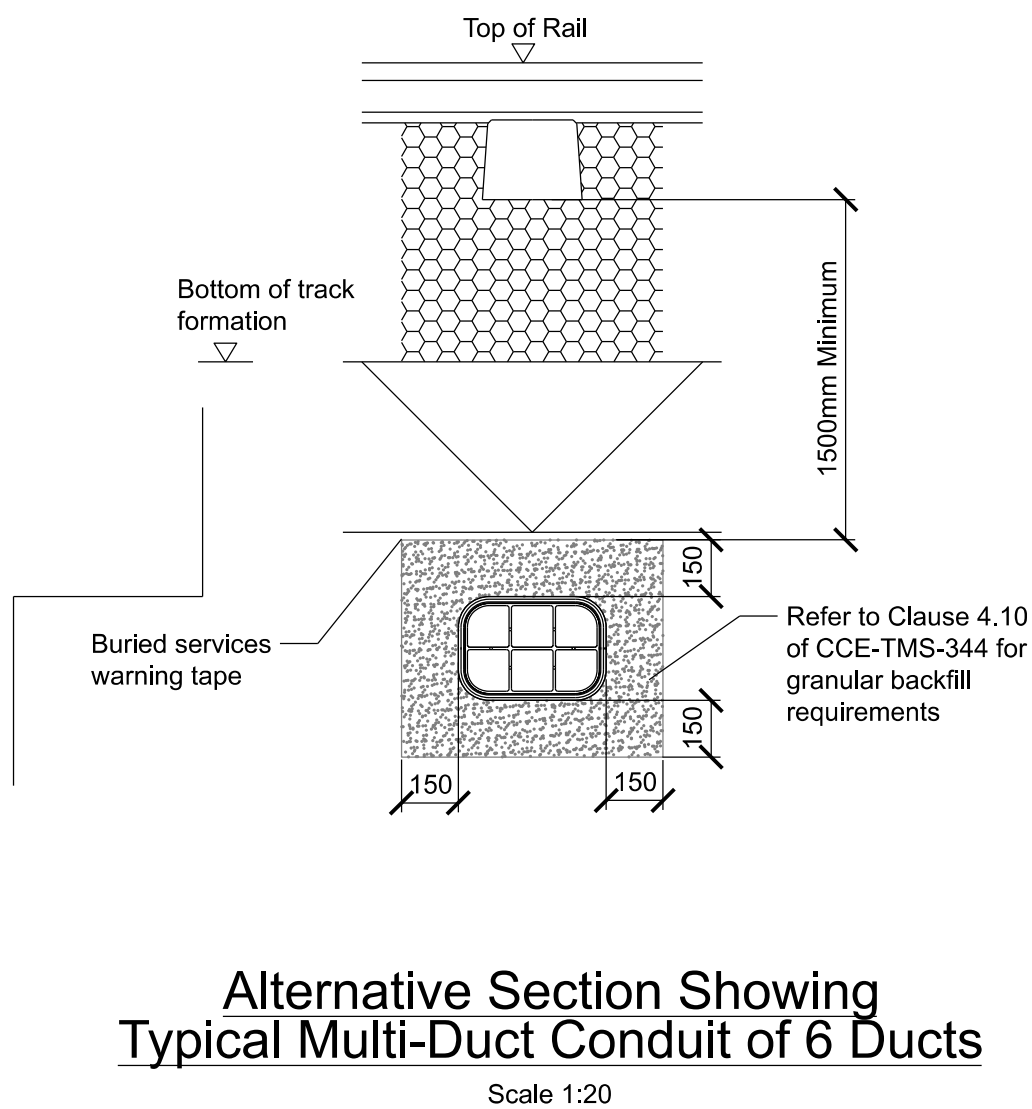
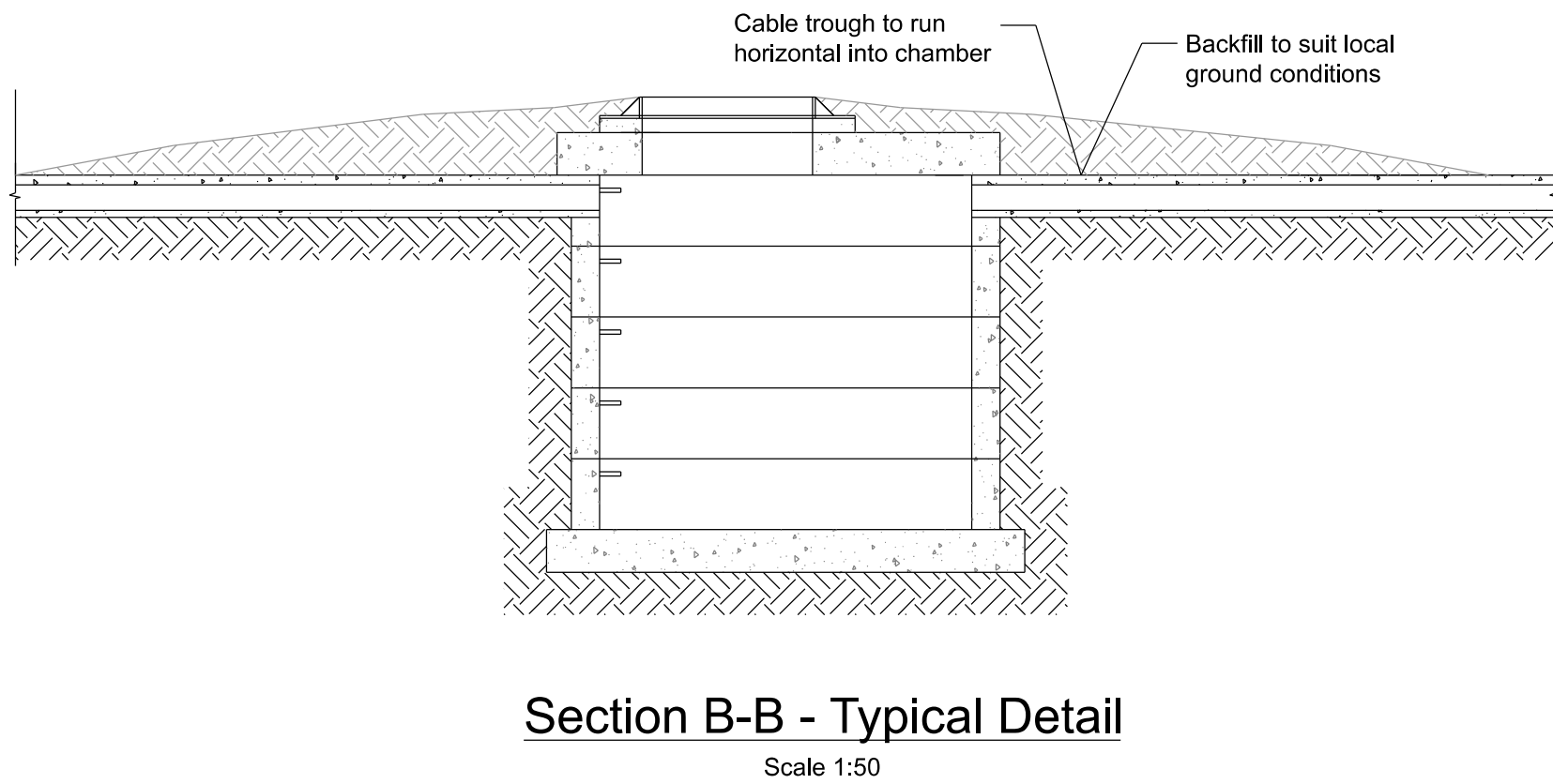
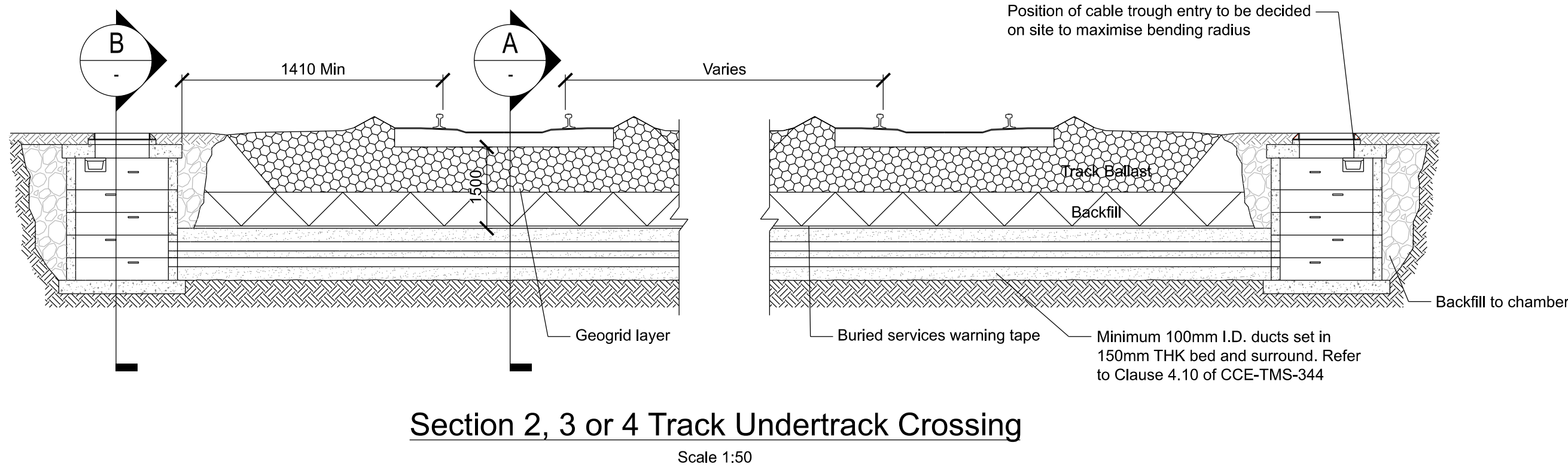
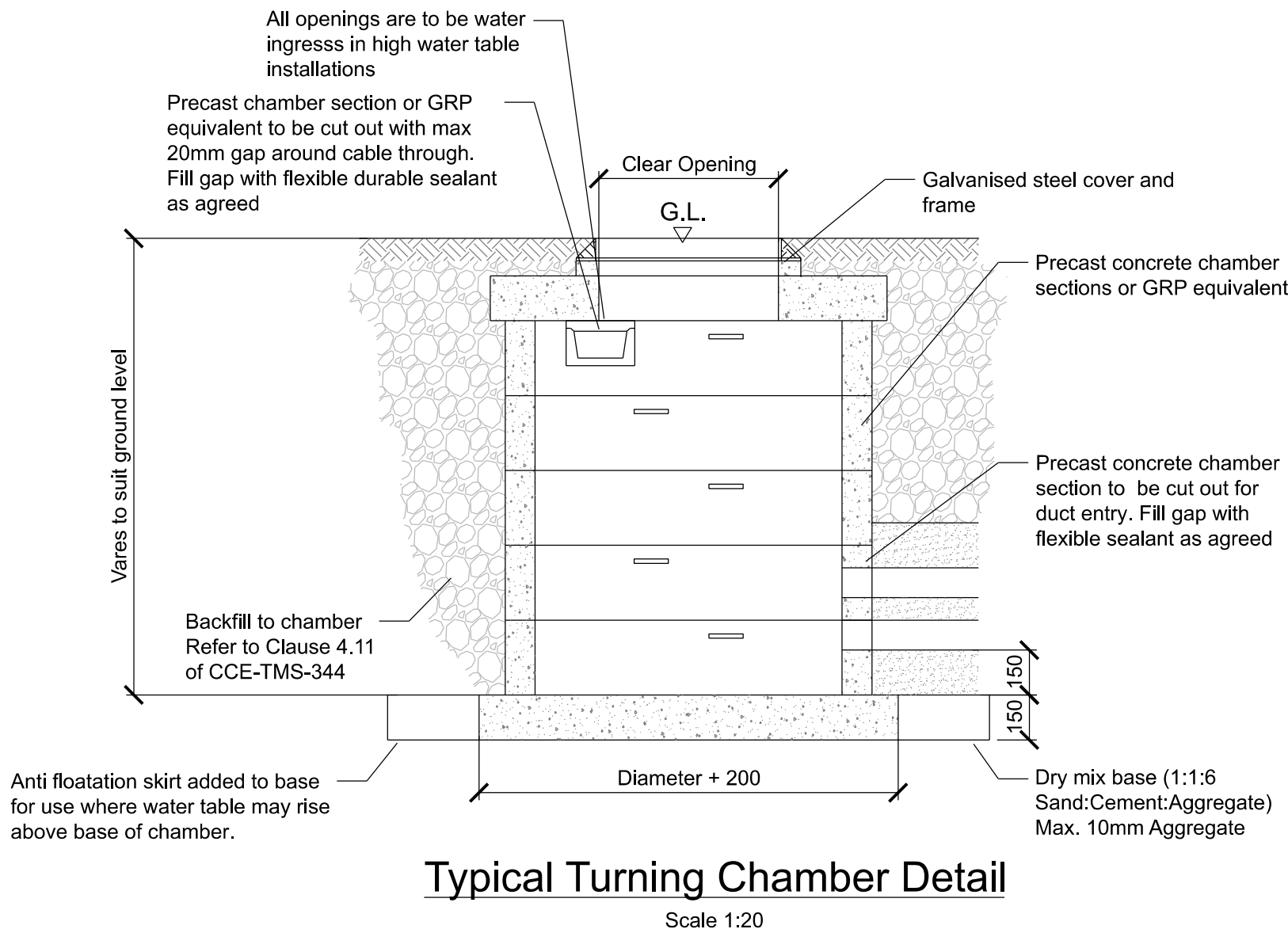
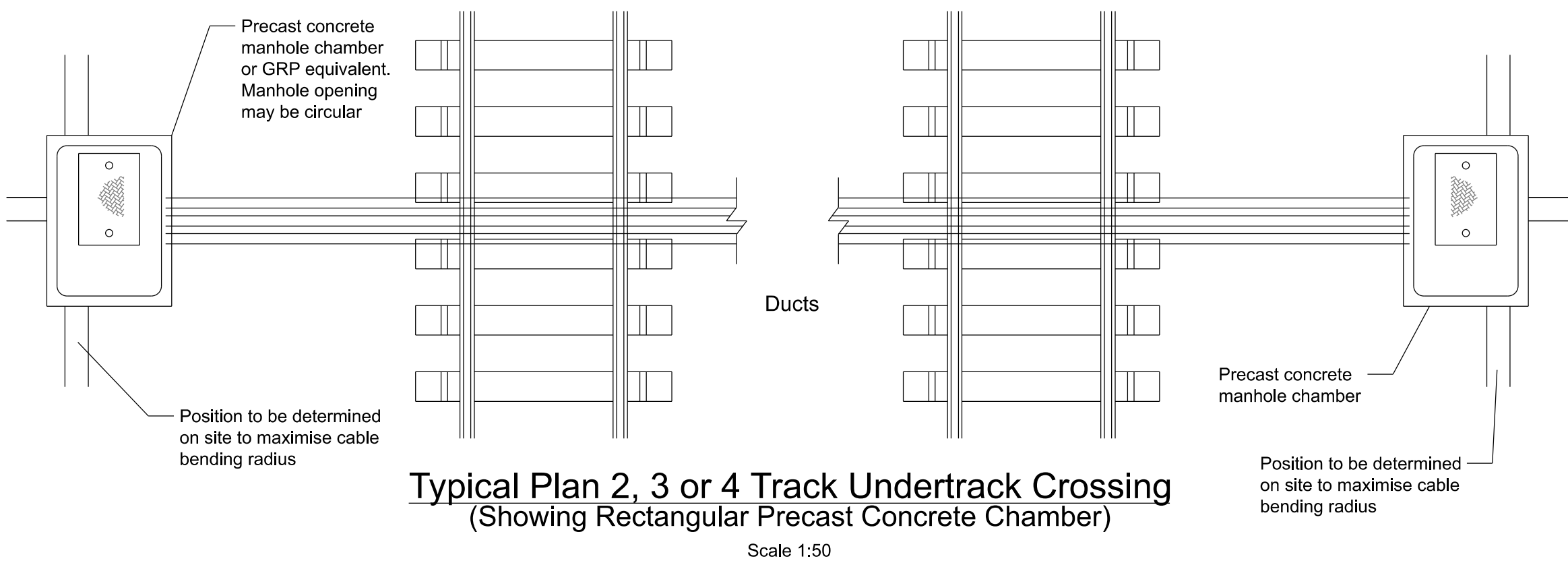
Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client		Engineering Designer	
Date	03/11/2023	Scale	@ A1 AS SHOWN @ A3
Project Code	D+WP56	Originator Code	ARUP
Drawn	JS	Checked	EJ
Approved	DB	QMS Code	279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
LINESIDE CIVILS SIGNAL POST GENERAL DETAILS			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-P4-NL-DR-RO-200024		1 of 1	S3
Rev		Rev	
P01		P01	

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  4. Refer to Book 3 Linear Works Plans For Location of Lineside Civil Infrastructure

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Rev	Date	Dm	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

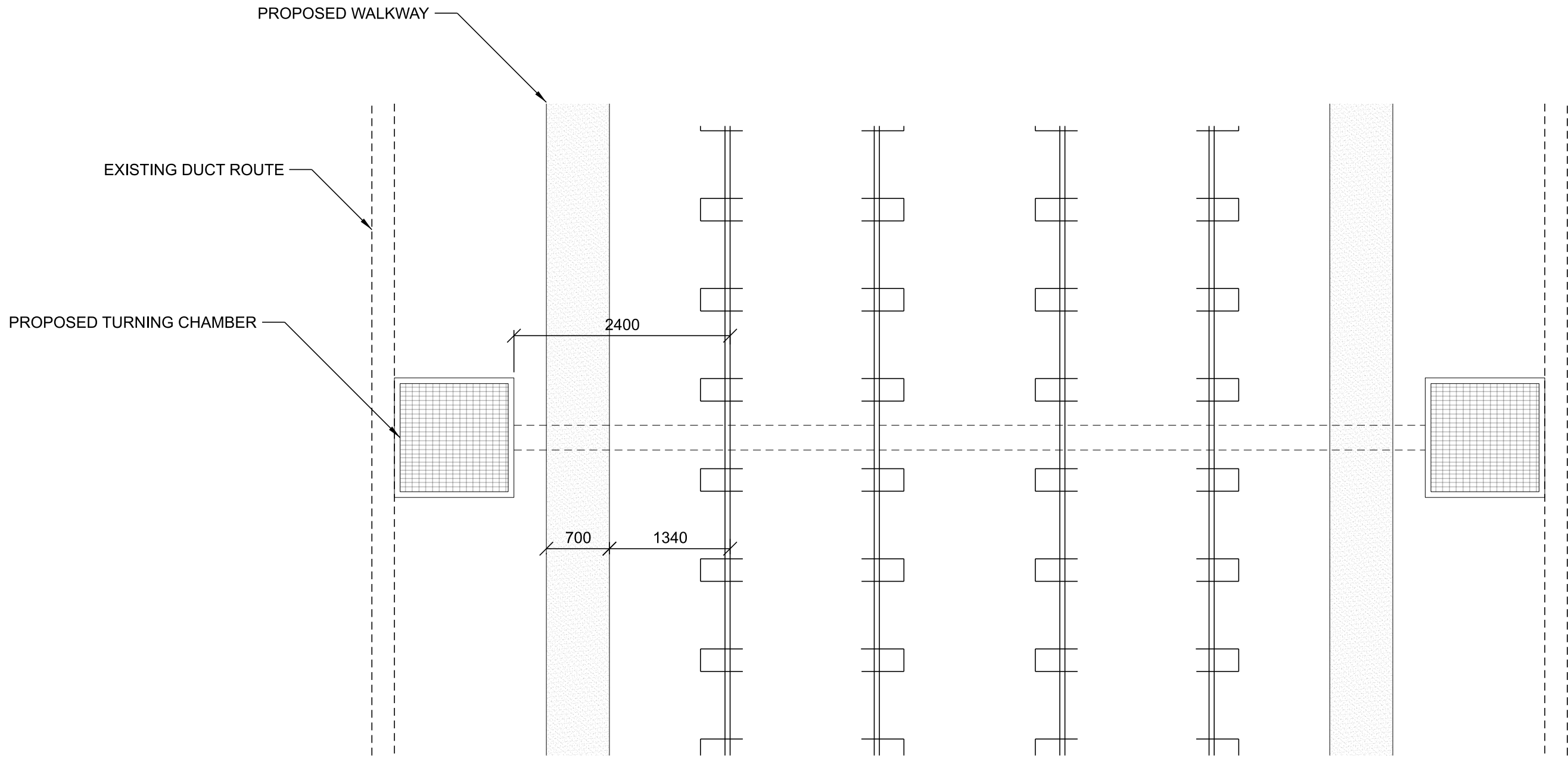


Date	03/11/2023	Scale	AS SHOWN @ A1 @ A3	Drawn	JS	Checked	EJ	Approved	DB
Project Code	D+WP56	Originator Code	ARUP	QMS Code	279933-00				

Project Title	DART+ COASTAL NORTH			
Drawing Title	LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 1			
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200025	Sheet Number	1 of 6	Rev P01

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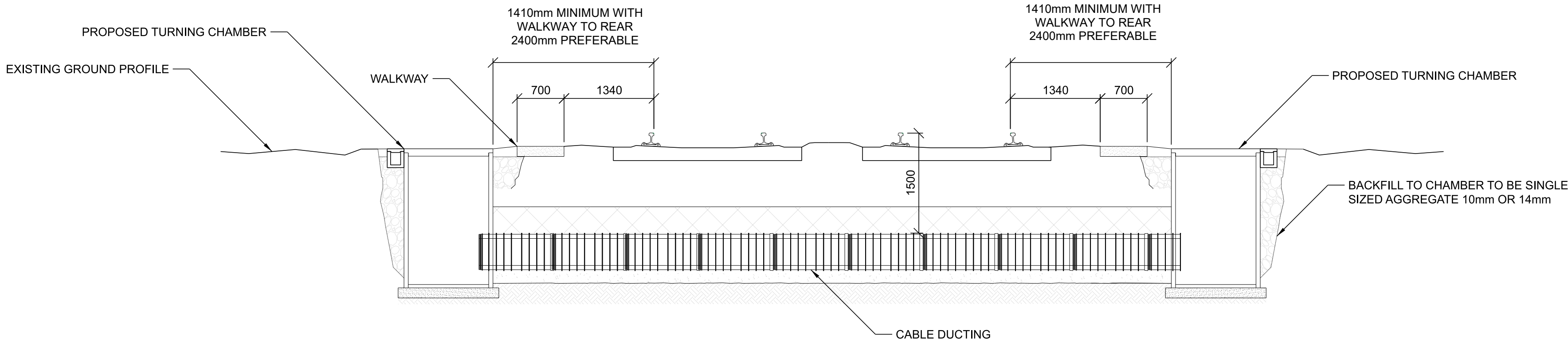




TYPE A - PLAN

1:50

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TYPE A - SECTION

1:50

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Rev	Date	Dwn	Chk'd	App'd	Description
P01	24/11/2023	SF	EJ	DB	PLANNING ISSUE

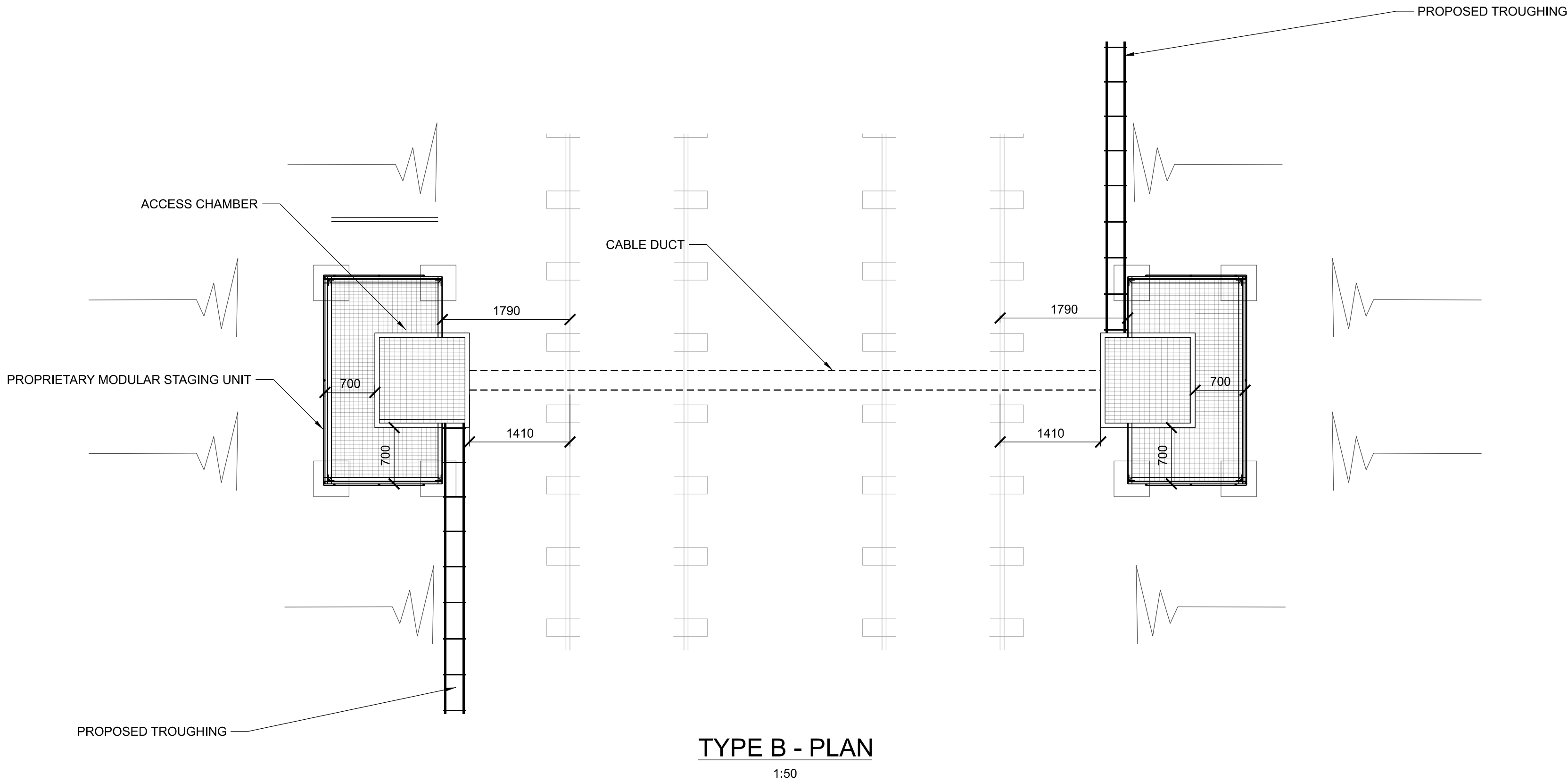


Date	03/11/2023
Project Code	D+WP56

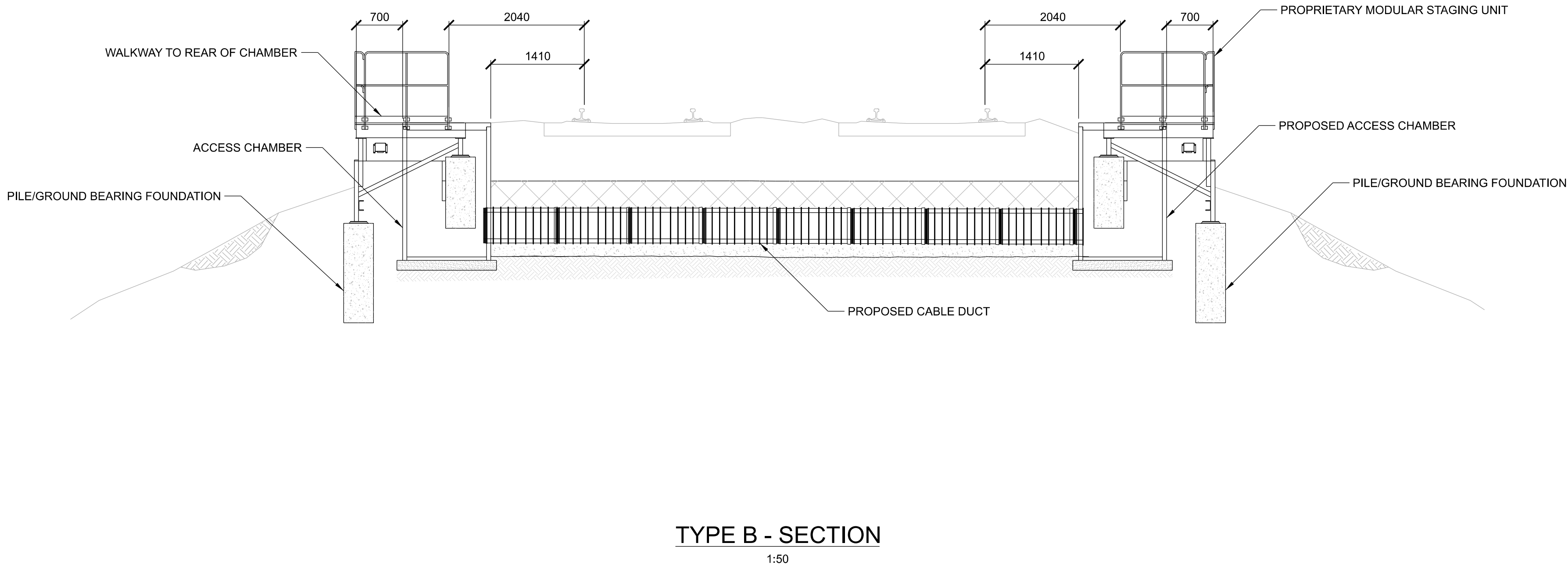


Scale	AS SHOWN
Originator Code	ARUP

Project Title	DART+ COASTAL NORTH				
Drawing Title	LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 2				
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200029	Sheet Number	2 of 6	Status	Rev
			S3		P01



- Notes :
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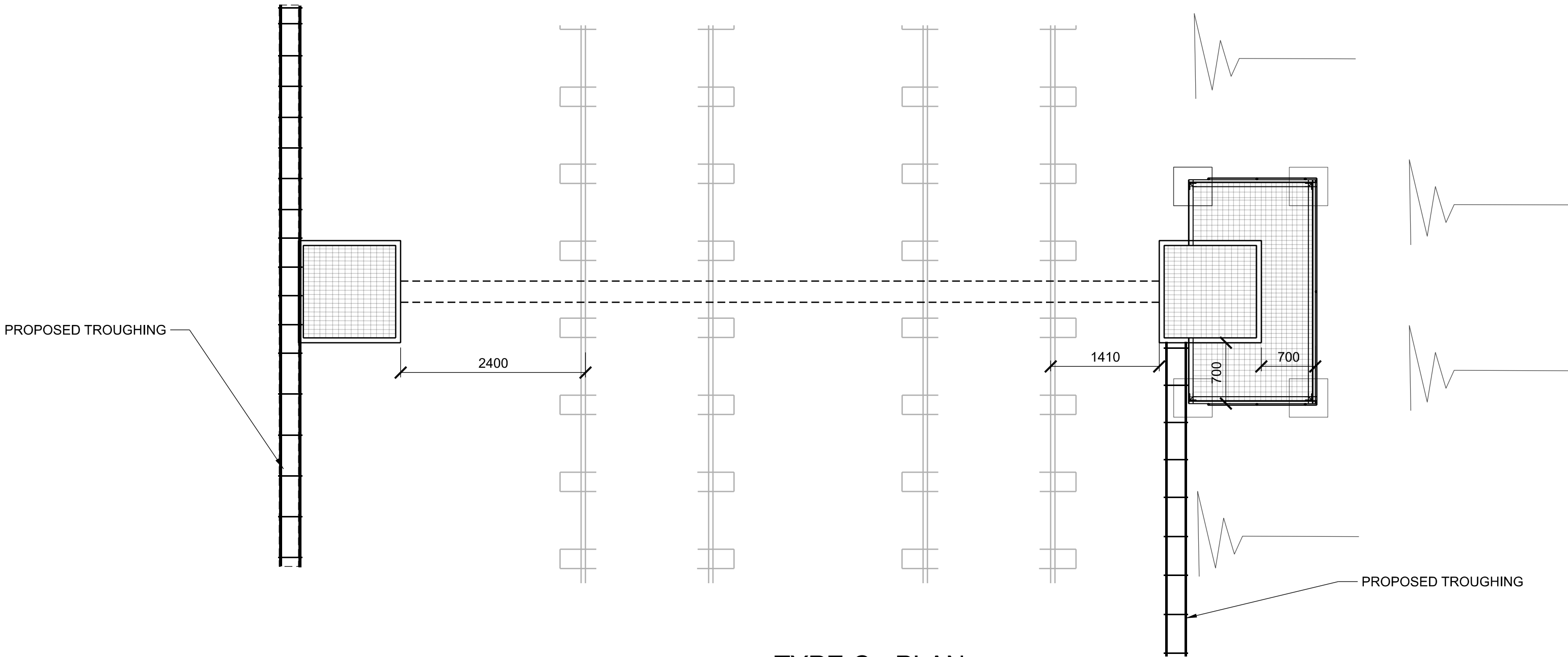
Rev	Date	Dwn	Chk'd	App'd	Description
P01	24/11/2023	SF	EJ	DB	PLANNING ISSUE

Client		Iarnród Éireann Irish Rail	
Date	03/11/2023	Scale	AS SHOWN @ A1 @ A3
Project Code	D+WP56	Originator Code	ARUP

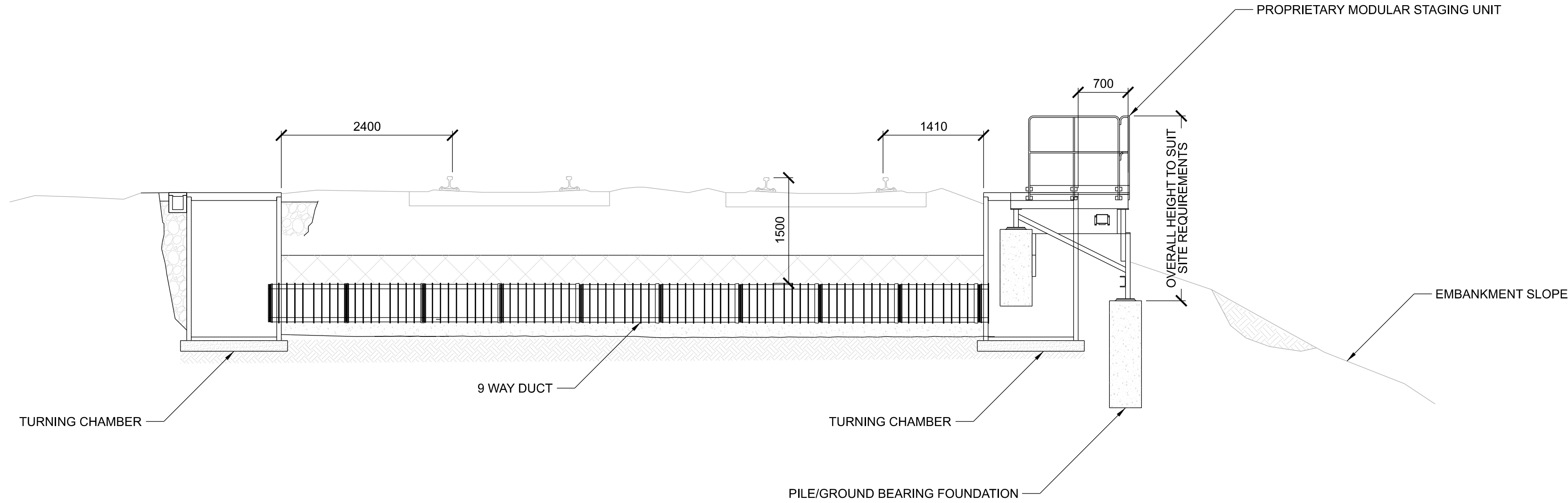
Engineering Designer			
ARUP			
Drawn	SF	Checked	EJ
Approved	DB	QMS Code	
279933-00			

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 3			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-P4-NL-DR-RO-200030		3 of 6	S3
Rev		P01	

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TYPE C - PLAN  
1:50



TYPE C - SECTION  
1:50

- Notes :
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Rev	Date	Dwn	Chk'd	App'd	Description
P01	24/11/2023	SF	EJ	DB	PLANNING ISSUE



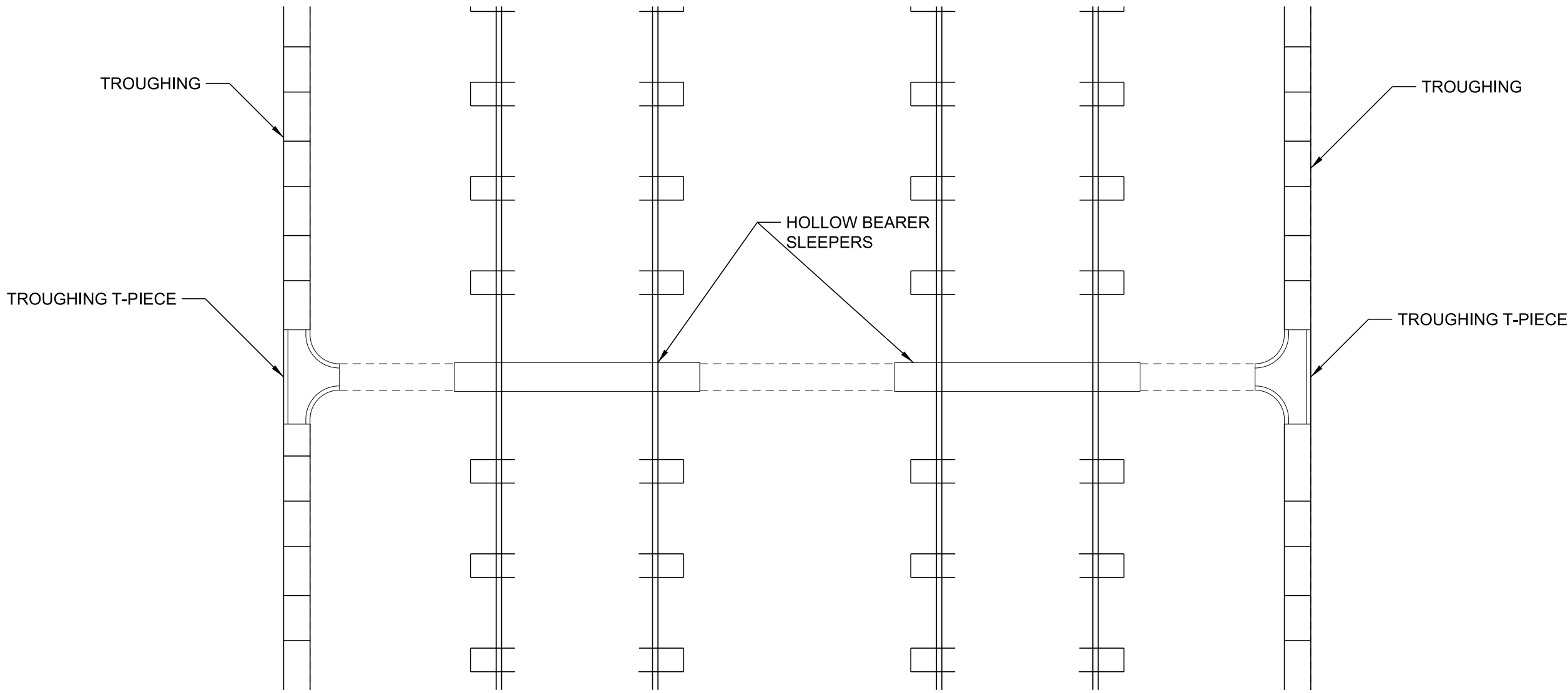
Date	03/11/2023	Scale	AS SHOWN @ A1 @ A3
Project Code	D+WP56	Originator Code	ARUP

Engineering Designer			
Drawn	SF	Checked	EJ
Approved	DB		
QMS Code	279933-00		

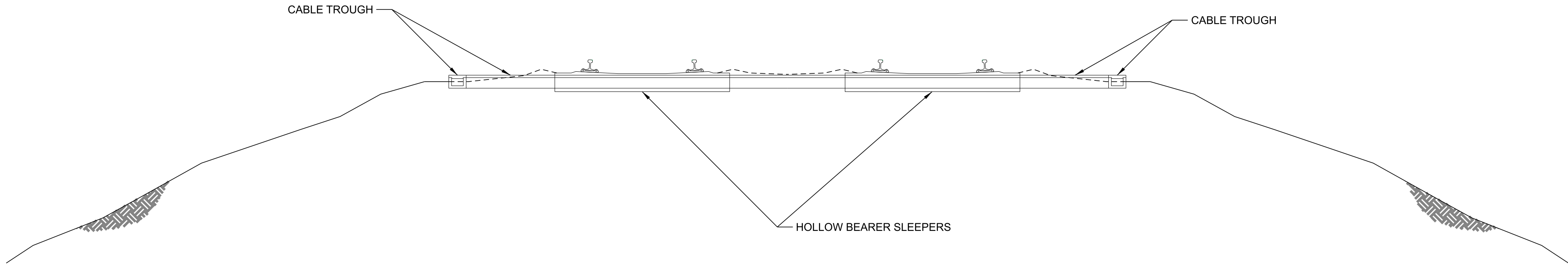
Project Title			
DART+ COASTAL NORTH			
Drawing Title			
LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 4			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-P4-NL-DR-RO-200031		4 of 6	S3
Rev	P01		

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TYPE D - PLAN  
1:50



TYPE D - SECTION  
1:50

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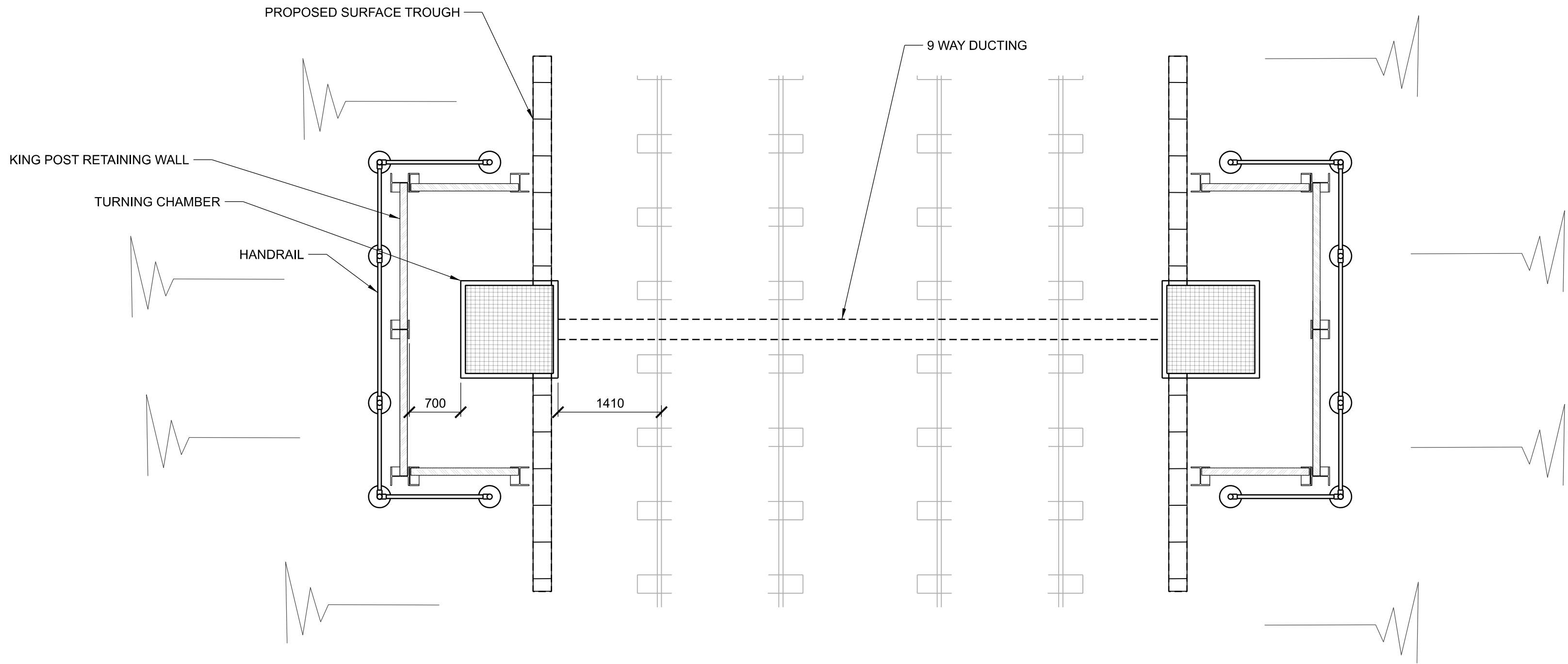


Rev	Date	Dwn	Chk'd	App'd	Description
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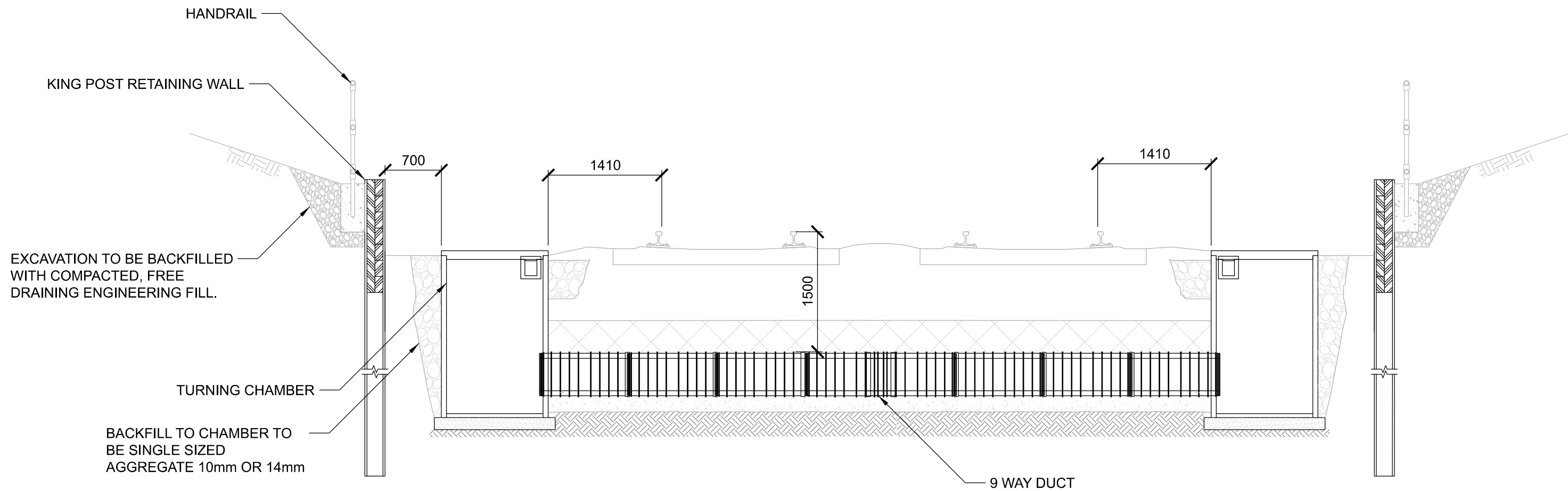
Client		Engineering Designer	
Date	03/11/2023	Scale	AS SHOWN @ A1 @ A3
Project Code	D+WP56	Originator Code	ARUP
Drawn	SF	Checked	EJ
Approved	DB	QMS Code	279933-00

Project Title			
DART+ COASTAL NORTH			
Drawing Title			
LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 5			
Drawing File Name		Sheet Number	Status
D+WP56-ARP-P4-NL-DR-RO-200032		5 of 6	S3
Rev	P01		

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TYPE E - PLAN  
1:50



TYPE E - SECTION  
1:50

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Rev	Date	Dwn	Chk'd	App'd	Description
P01	24/11/2023	SF	EJ	DB	PLANNING ISSUE

Client		Engineering Designer			Project Title			
					DART+ COASTAL NORTH			
Date 03/11/2023		Scale AS SHOWN @ A1 @ A3			Drawing Title			
Project Code D+WP56		Originator Code ARUP			LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 6			
QMS Code 279933-00		Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200033			Sheet Number 6 of 6	Status S3	Rev P01	

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