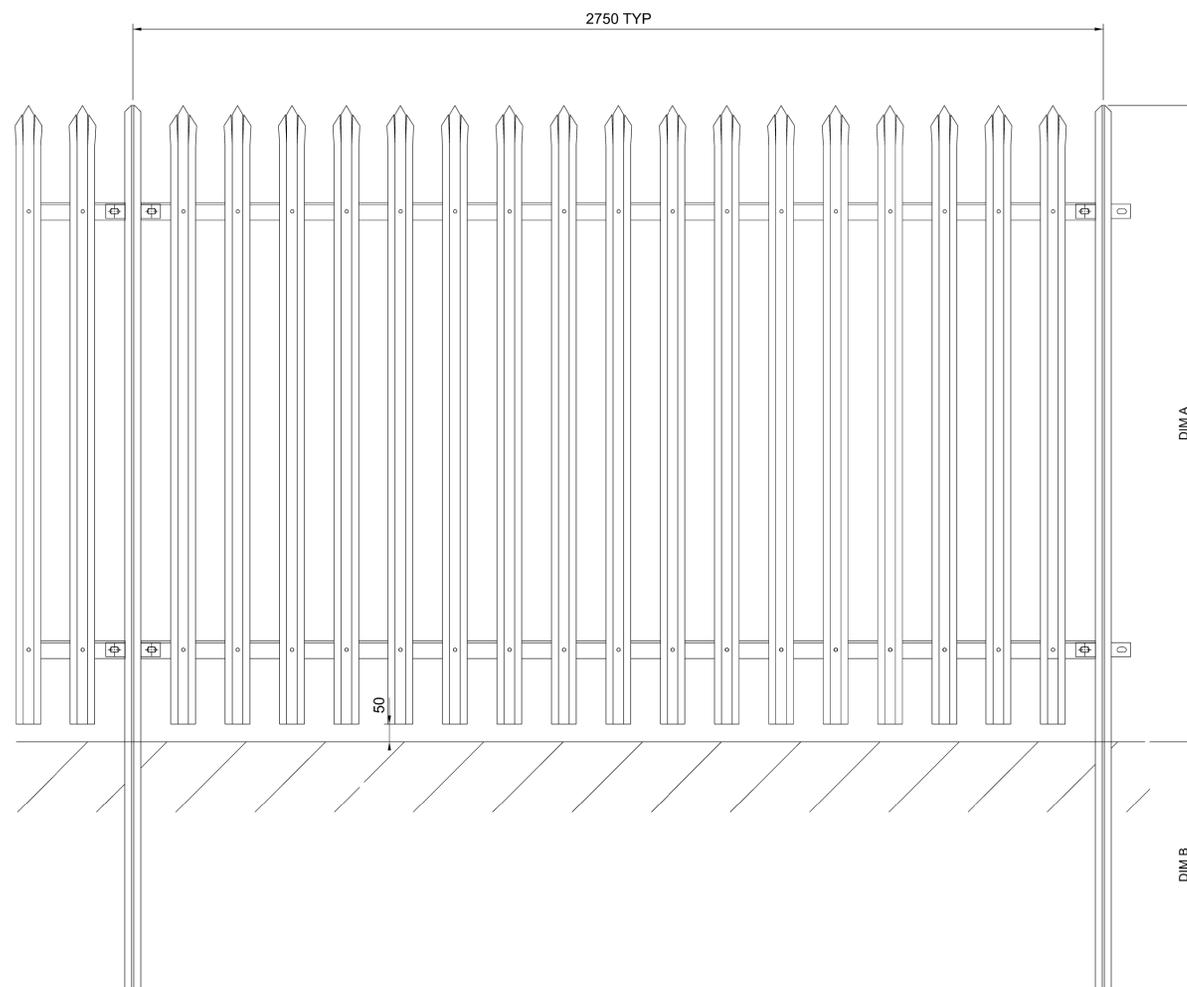
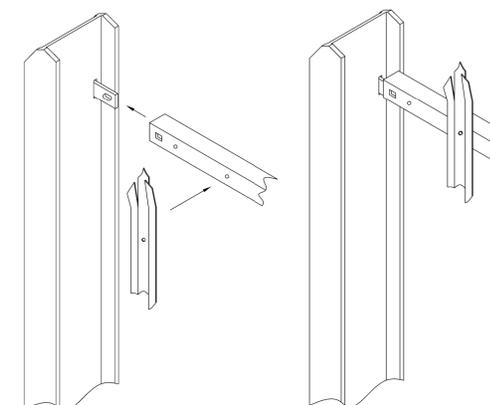

**GENERAL
ARRANGEMENTS**

NOTES

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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"

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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
 Project Code D+WP56
 Originator Code ARUP

Engineering Designer



Scale 1:10 @ A1, 1:20 @ A3
 Drawn SF, Checked EJ, Approved DB
 QMS Code 279933-00

Project Title **DART+ COASTAL NORTH**

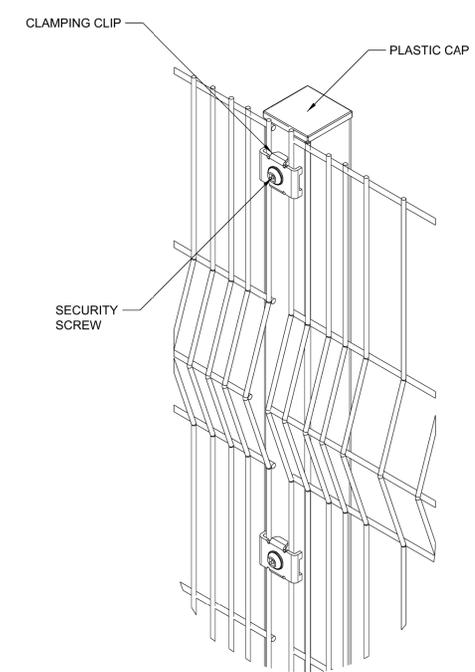
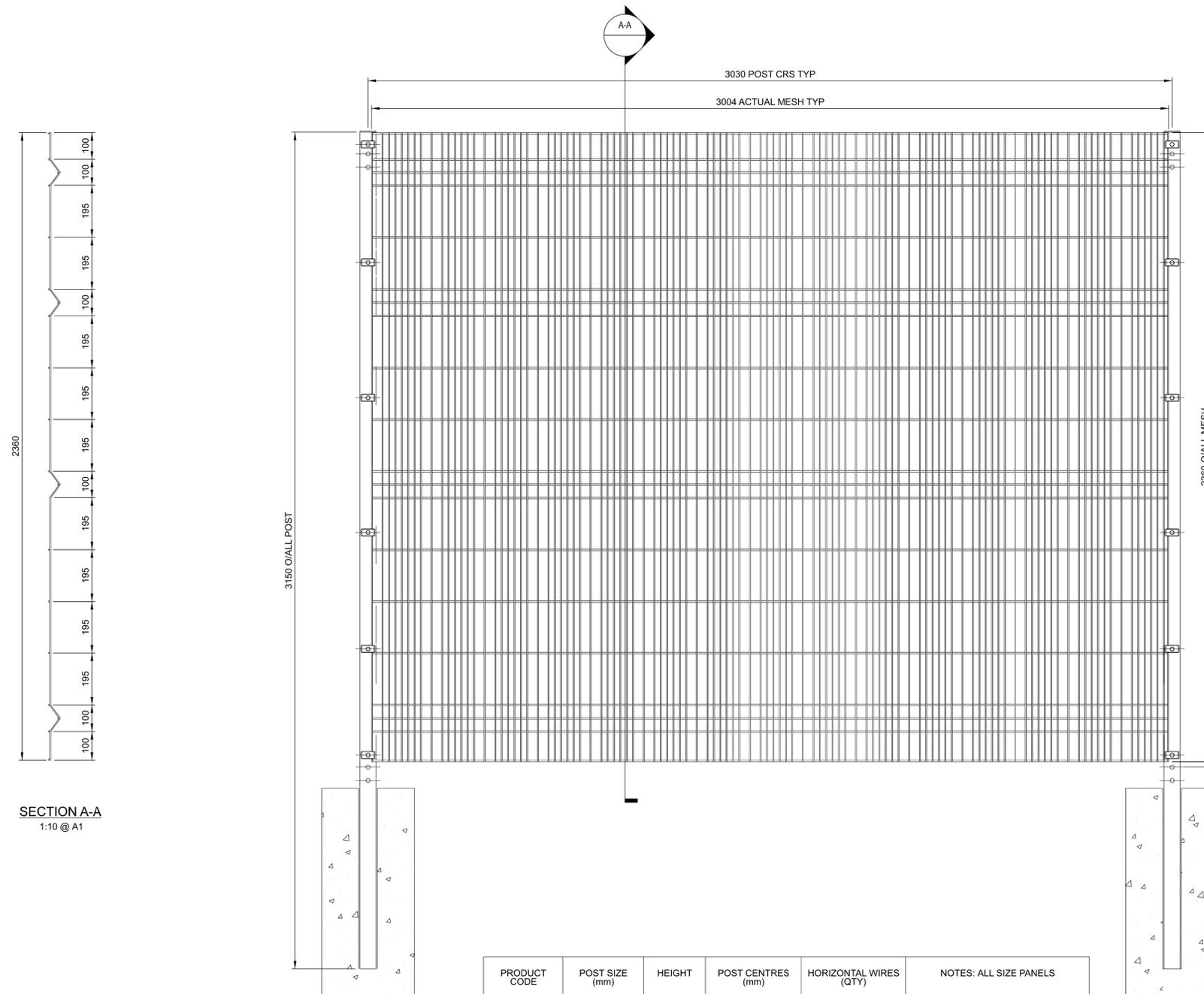
Drawing Title **FENCING DETAILS
PALISADE FENCING**

Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200001
 Sheet Number 01 of 01
 Status S3
 Rev P01

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



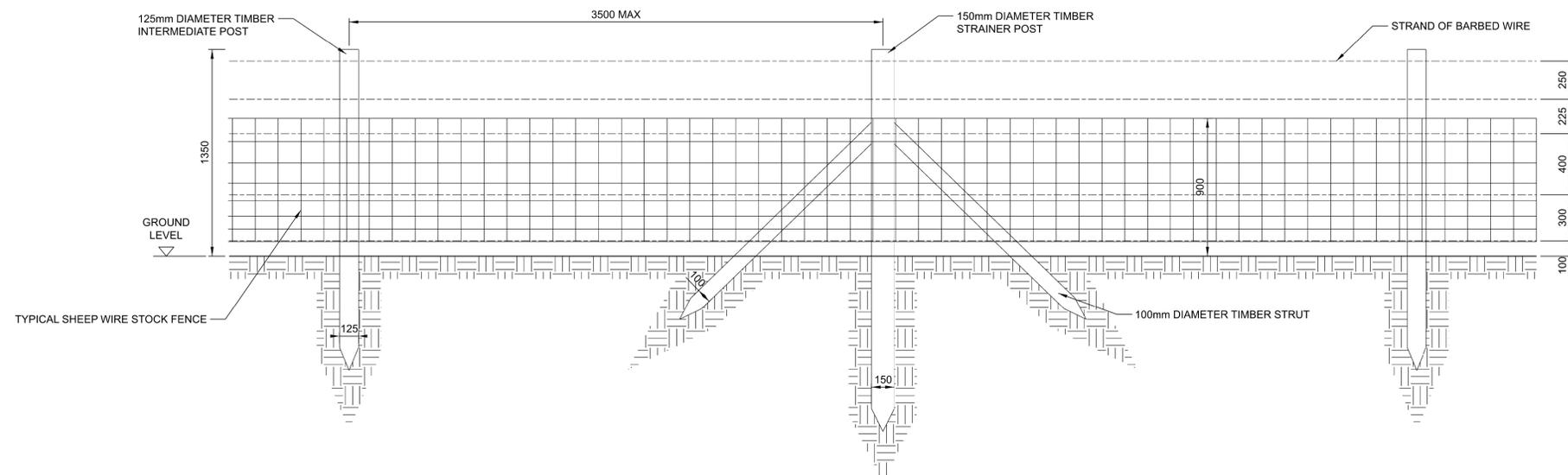
Date	11/07/2023	Scale	1:10 @ A1 1:20 @ A3	Drawn	SF	Checked	EJ	Approved	DB
Project Code	D+WP56	Originator Code	ARUP	QMS Code	279933-00				

Project Title	DART+ COASTAL NORTH						
Drawing Title	FENCING DETAILS PALADIN FENCING						
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200002	Sheet Number	01 of 01	Status	S3	Rev	P01

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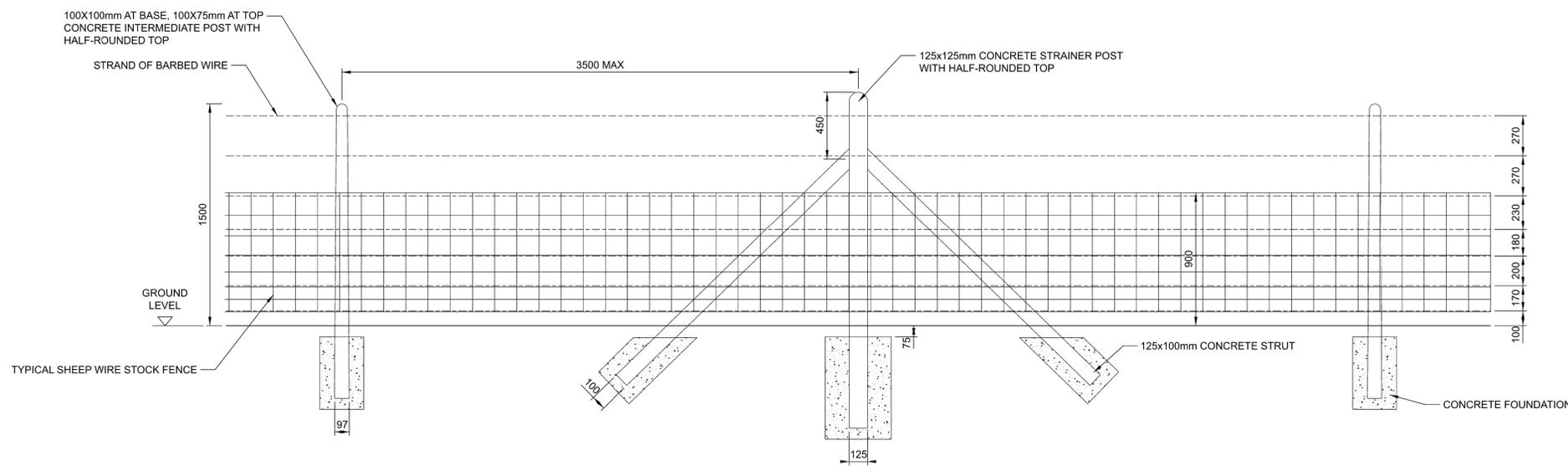
NOTES

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TIMBER POST AND WIRE FENCE

1:20 @ A1



CONCRETE POST AND WIRE FENCE

1:20 @ A1

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

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

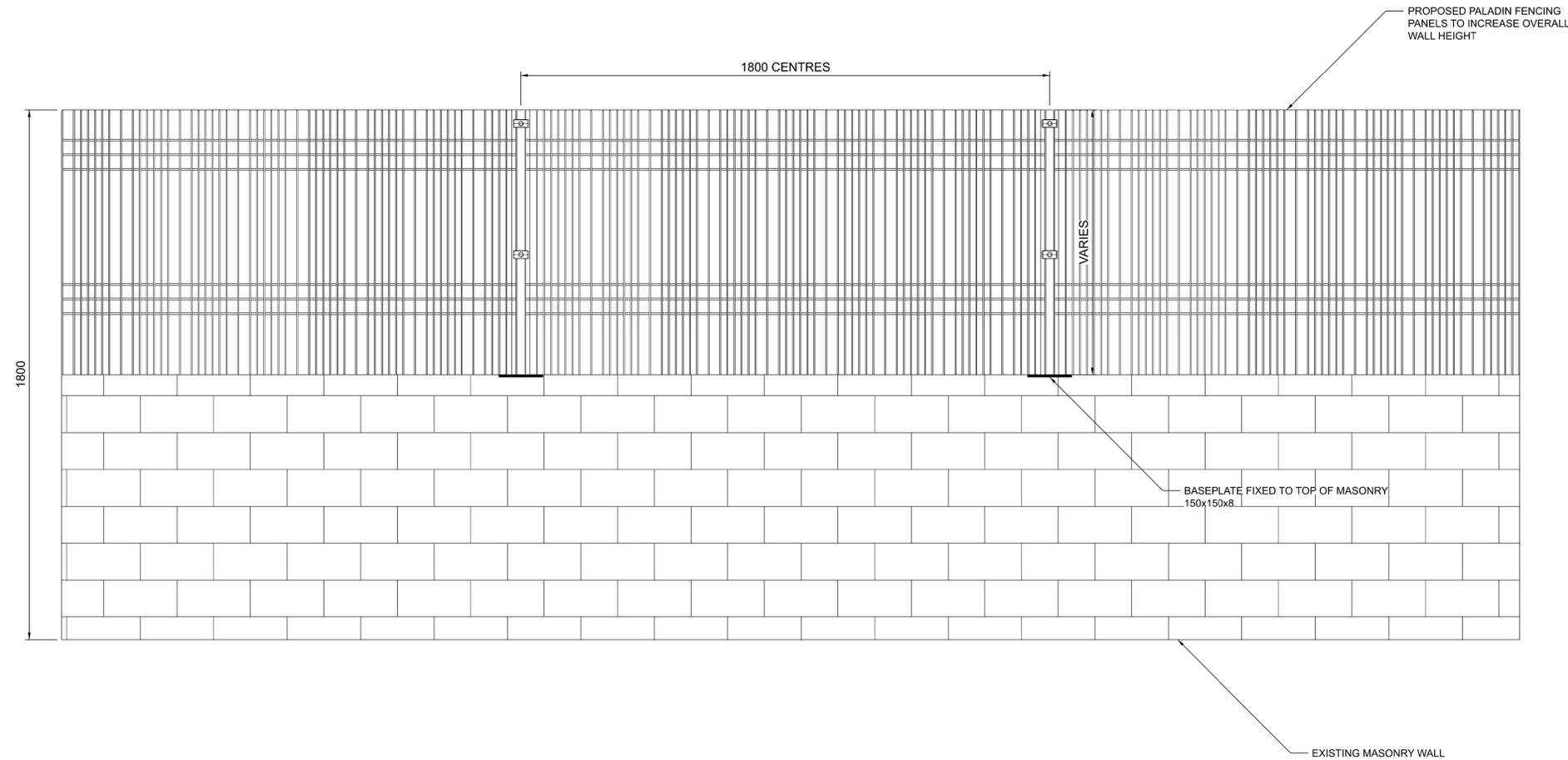
Engineering Designer		
ARUP		
Drawn	Checked	Approved
SF	EJ	DB
QMS Code		
279933-00		

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

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PALADIN FENCE EXTENSION TO MASONRY WALL
1:10 @ A1

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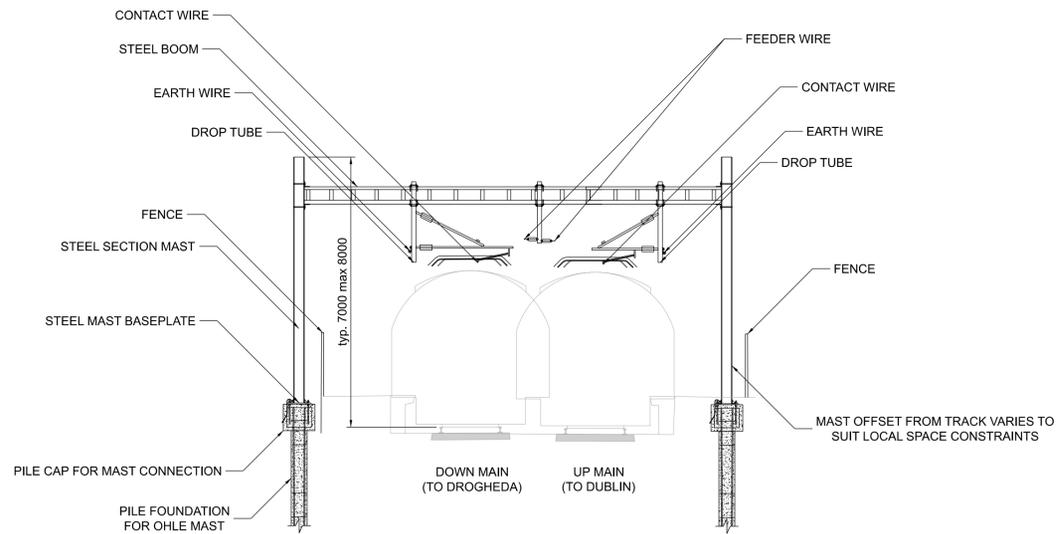


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P01	06/10/2023	SF	EJ	DB	PLANNING ISSUE

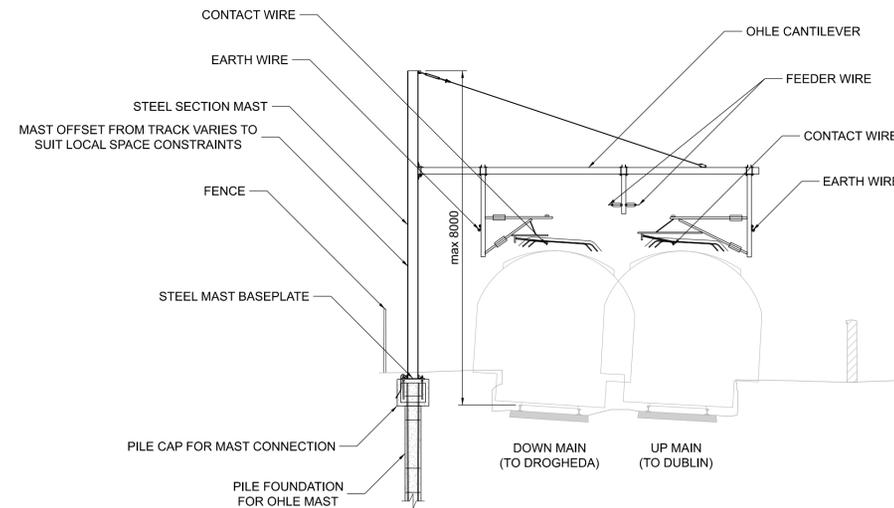
Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 11/07/2023	Scale 1:10 @ A1 1:20 @ A3	Drawn SF	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARUP	QMS Code 279933-00		

Project Title DART+ COASTAL NORTH			
Drawing Title FENCING DETAILS PALADIN FENCE EXTENSION TO MASONRY WALL			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200004	Sheet Number 01 of 01	Status S3	Rev P01

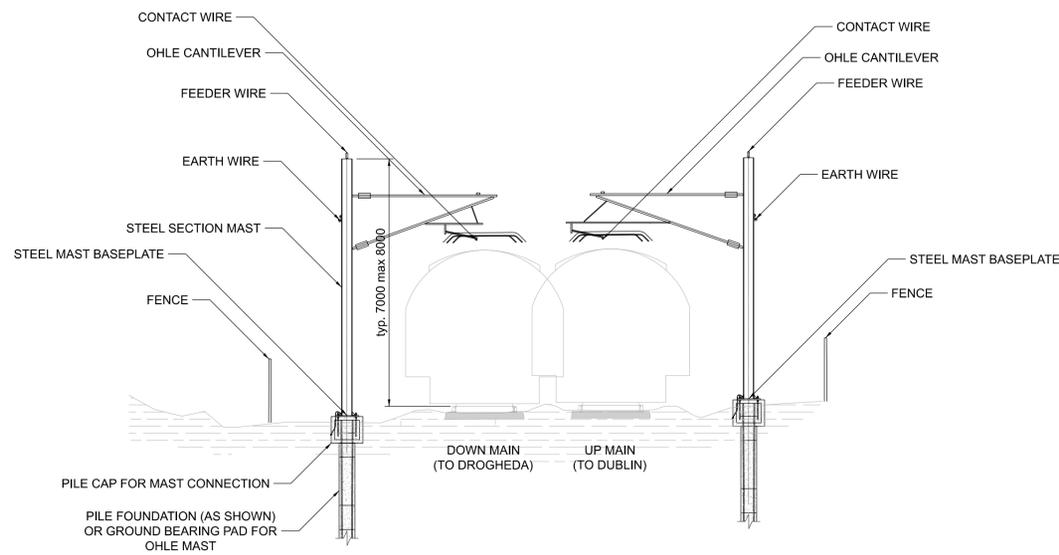
DO NOT SCALE USE FIGURED DIMENSIONS ONLY



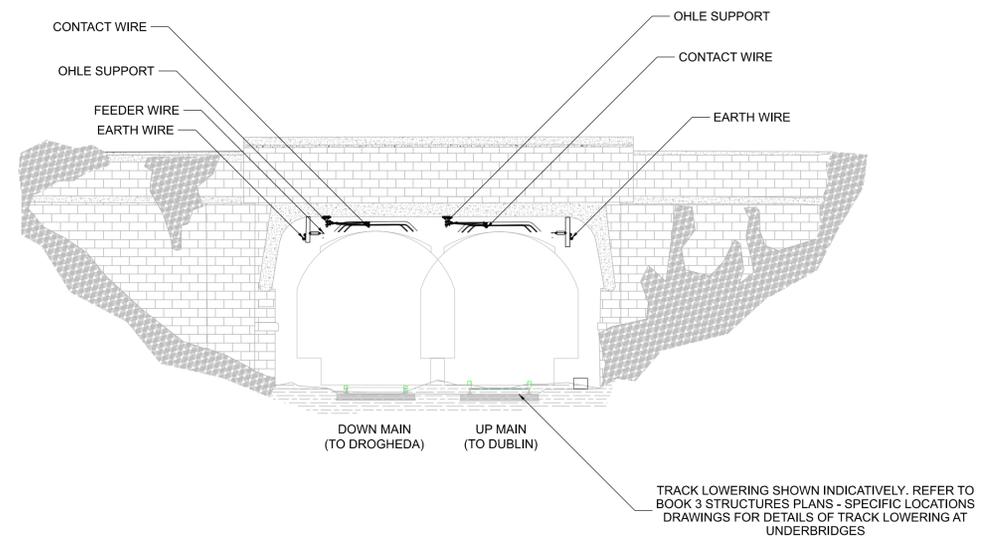
TYPICAL OHLE CROSS SECTION AT A STATION - PORTAL
1:100 @ A1



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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- 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	Drn	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	Status	S3	Rev	P01

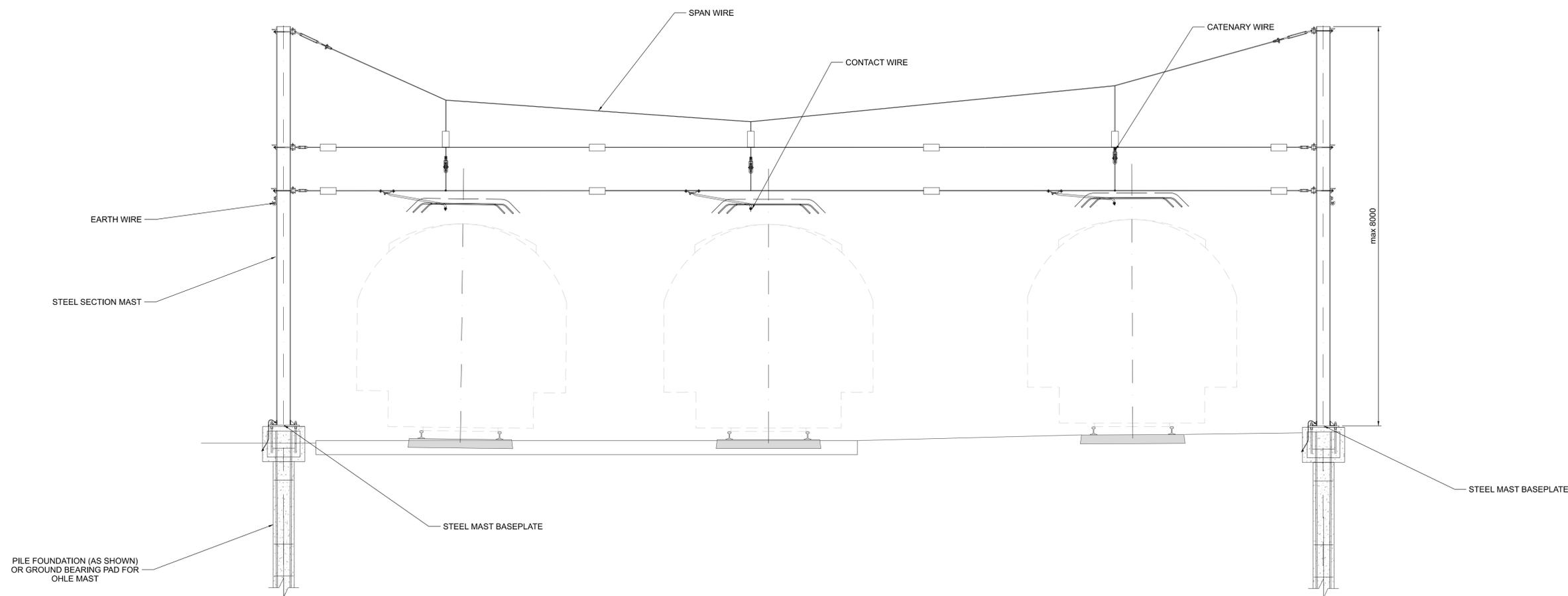
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- FOR DETAILS OF OHLE STRUCTURES AT VIADUCTS AND AT THE PROPOSED RETAINING WALLS IN THE VICINITY OF CLONGRIFFIN AND MALAHIDE STATIONS REFER TO BOOK 3 STRUCTURES PLANS - SPECIFIC LOCATIONS DRAWINGS.

LEGEND

- EXISTING ELEMENTS
- PROPOSED ELEMENTS



TYPICAL OHLE CROSS SECTION - HEADSPAN

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

Client



Date
06/10/2023

Scale
1:50 @ A1
1:100 @ A3

Engineering Designer



Drawn C. Lázaro	Checked A. Raya	Approved C. Cox
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Project Title

DART+ COASTAL NORTH

Drawing Title

TYPICAL OHLE ARRANGEMENTS SHEET 2 OF 2

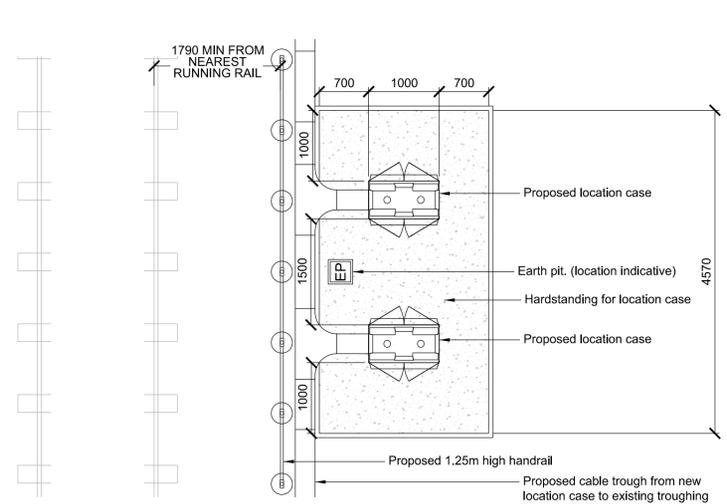
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D+WP56-ARP-P4-NL-DR-RO-200011

Sheet Number 02 of 02	Status S3	Rev P01
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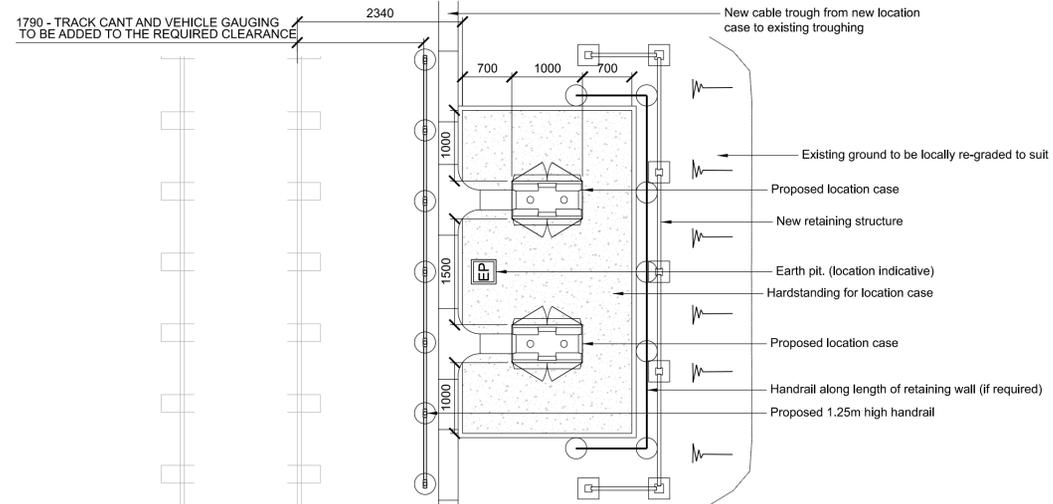
DO NOT SCALE USE FIGURED DIMENSIONS ONLY

**LINESIDE CIVILS
DETAILS**

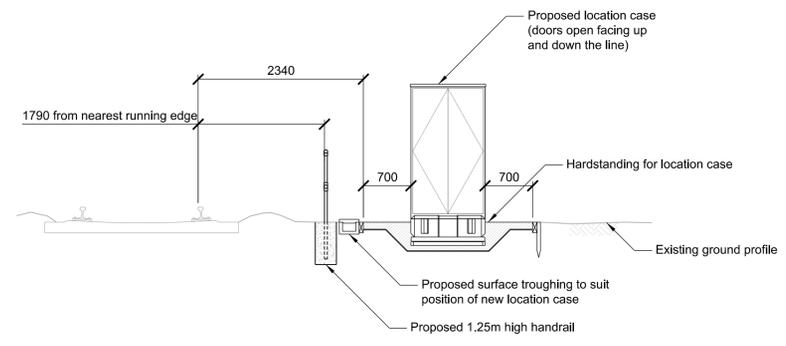
- Notes :
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 3. This drawing shall be read in conjunction with the other drawings included in this series.
 4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastructure.



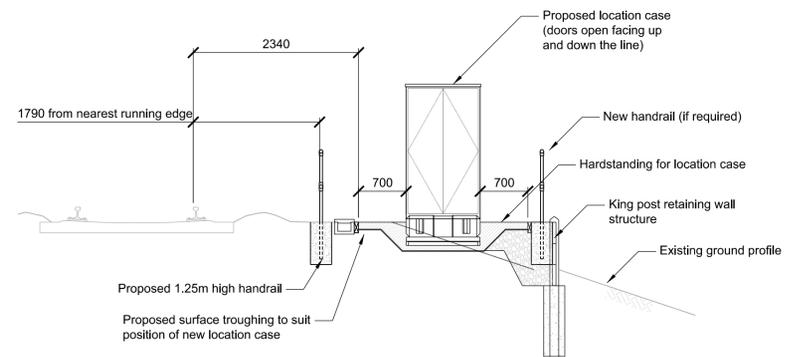
Level Ground - Plan
Scale 1:50



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	Drn	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client: **Iarnród Éireann Irish Rail**

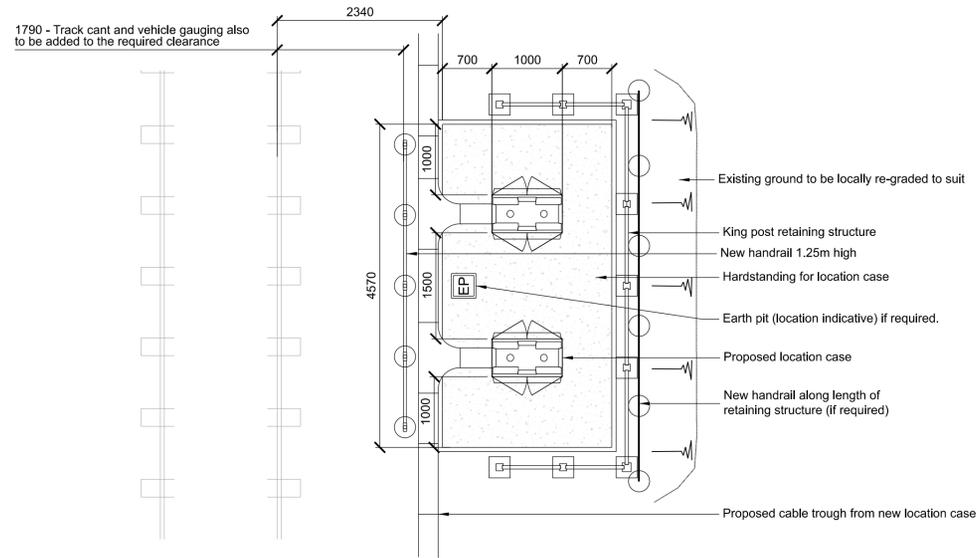
Engineering Designer: **ARUP**

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				

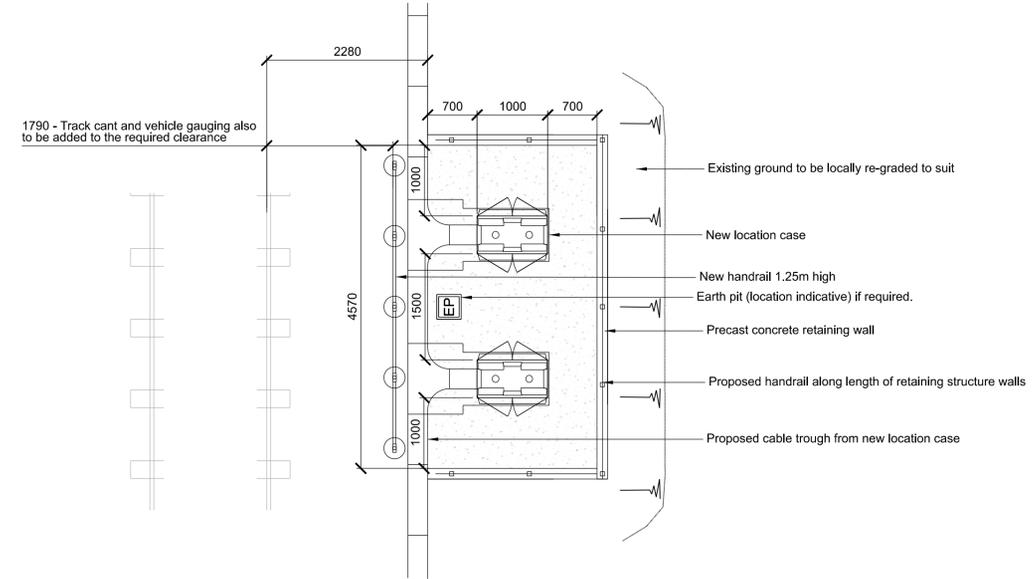
Project Title	DART+ COASTAL NORTH				
Drawing Title	LINESIDE CIVILS CABINET GENERAL DETAILS 1				
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200021	Sheet Number	1 of 1	Rev	P01
Status	SS				

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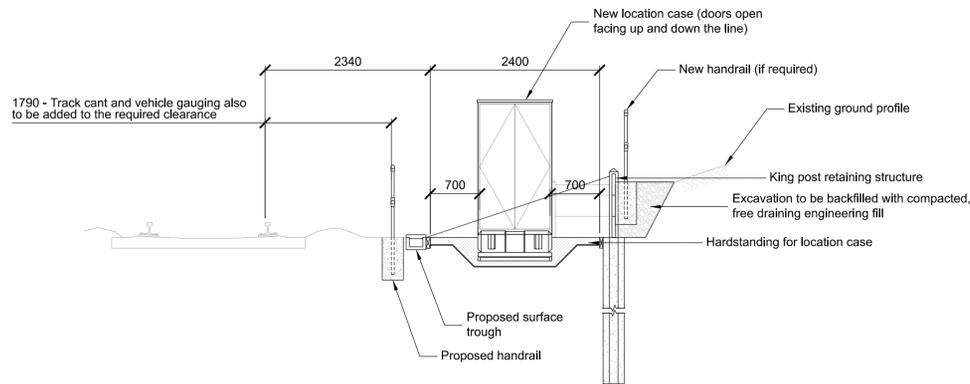
- Notes :
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 3. This drawing shall be read in conjunction with the other drawings included in this series.
 4. Refer to Book 3 Linear Works Plans For Location of Lineside Civil Infrastructure



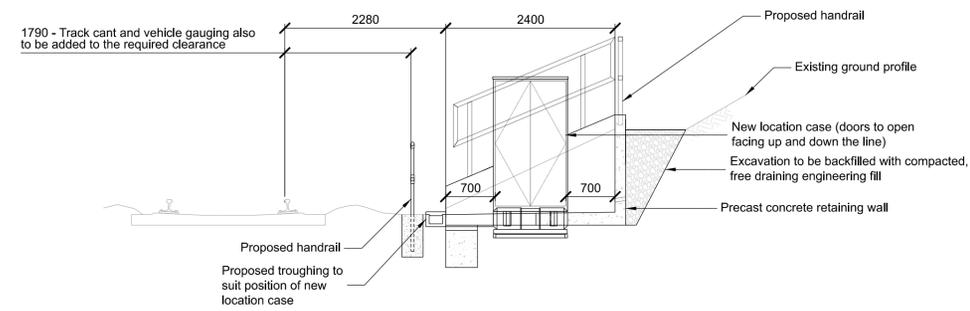
Retaining in Cutting - Plan
Scale 1:50



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	Drn	Chk'd	App'd	Description
P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE



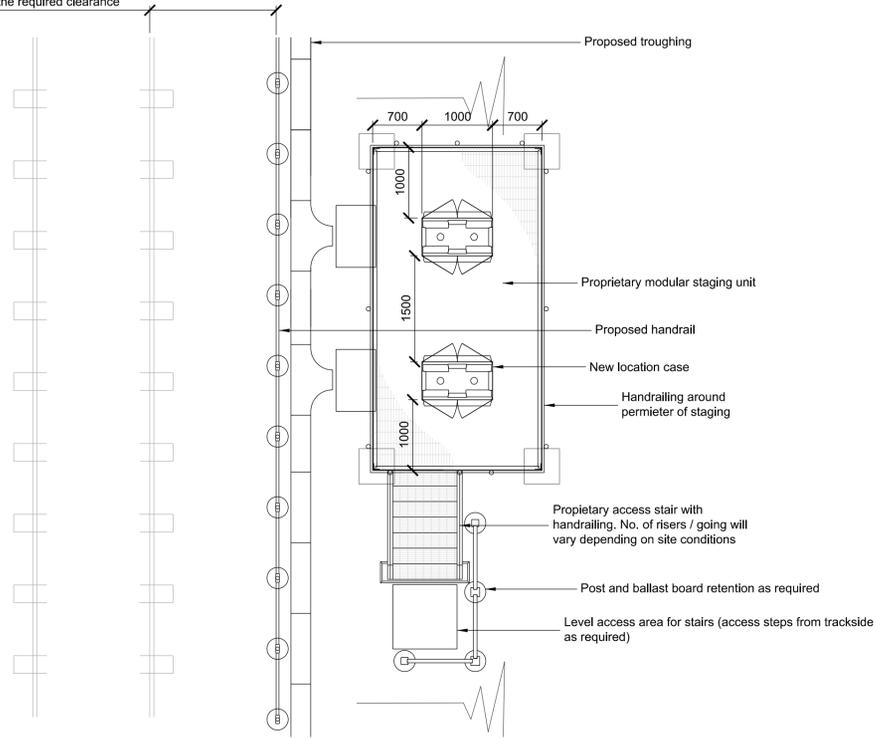
Date 03/11/2023
Scale AS SHOWN @ A1 @ A3
Project Code D+WP56
Originator Code ARUP

Engineering Designer
ARUP
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	Sheet Number	Status	Rev	
D+WP56-ARP-P4-NL-DR-RO-200022	1 of 1	S3	P01	

DO NOT SCALE USE FIGURED DIMENSIONS ONLY

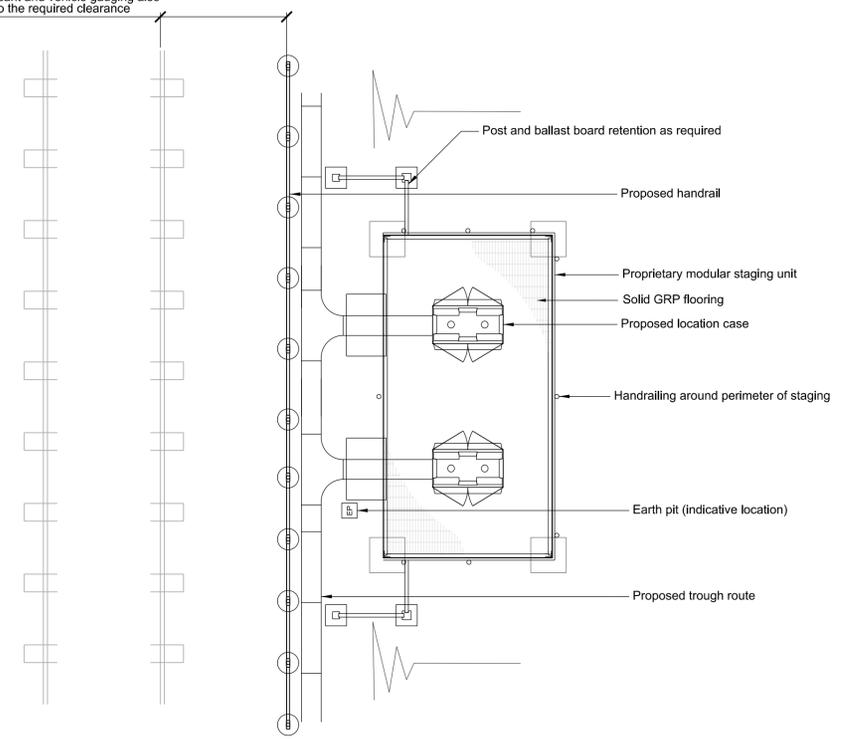
1790 - Track cant and vehicle gauging also to be added to the required clearance



Staging in Cutting - Plan

Scale 1:50

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

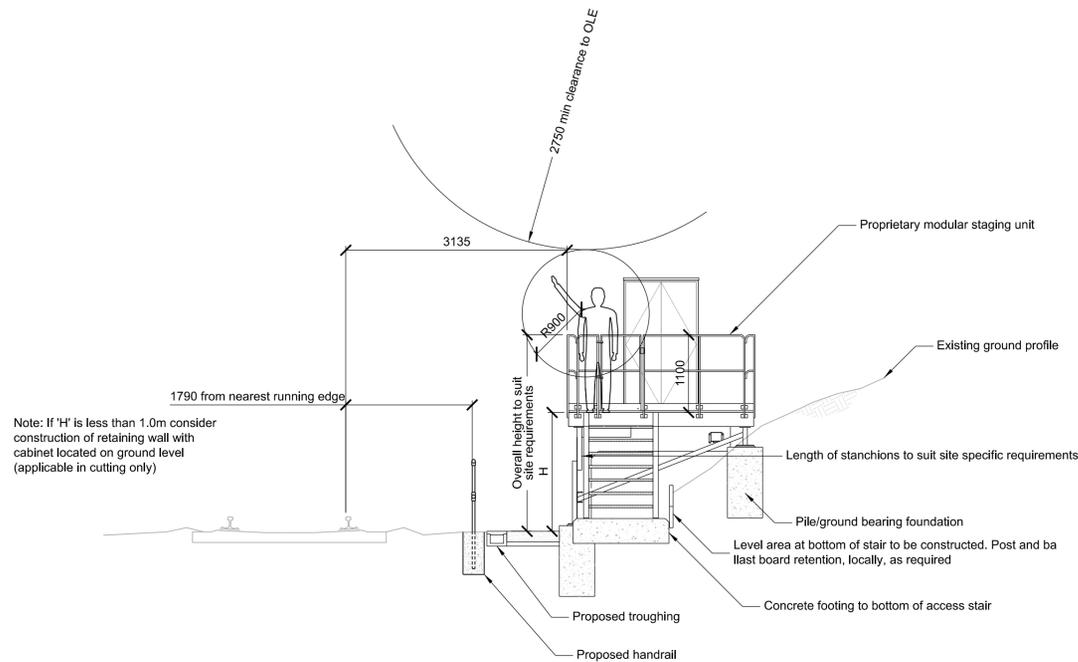


Staging on Embankment - Plan

Scale 1:50

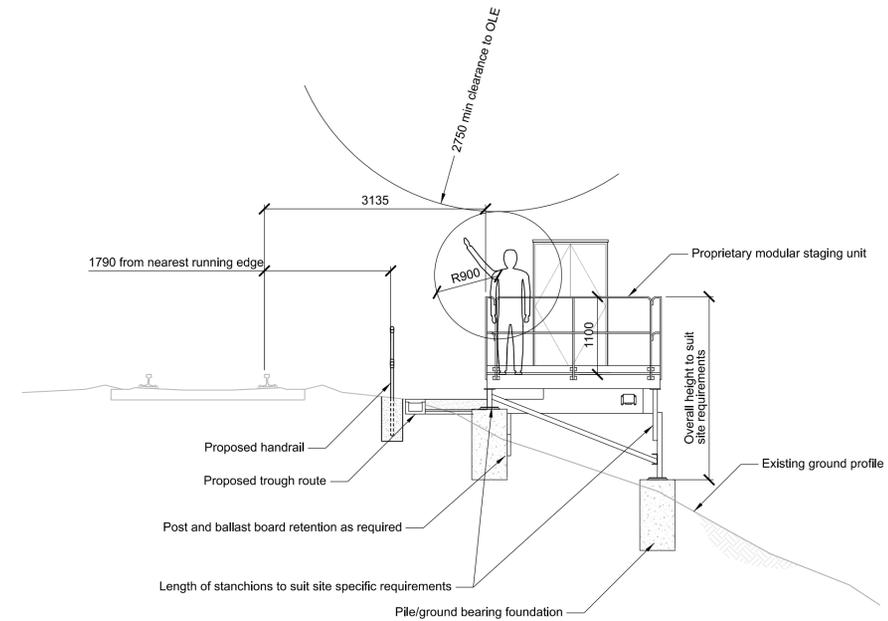
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3. This drawing shall be read in conjunction with the other drawings included in this series.
4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastructure.



2 Cabinets Staging in Cutting - Section

Scale 1:50



2 Cabinets Staging on Embankments

Scale 1:50

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

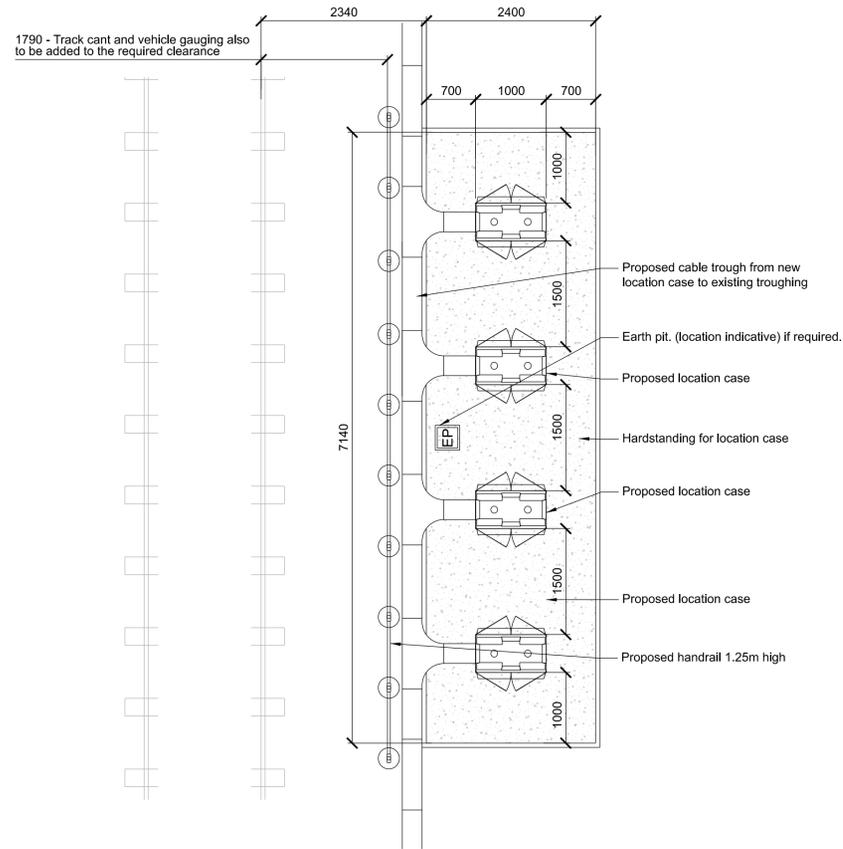


Date	03/11/2023	Scale	@ A1 AS SHOWN @ A3	Drawn	JS	Checked	EJ	Approved	DB
Project Code	D+WP56	Originator Code	ARUP	QMS Code	279933-00				

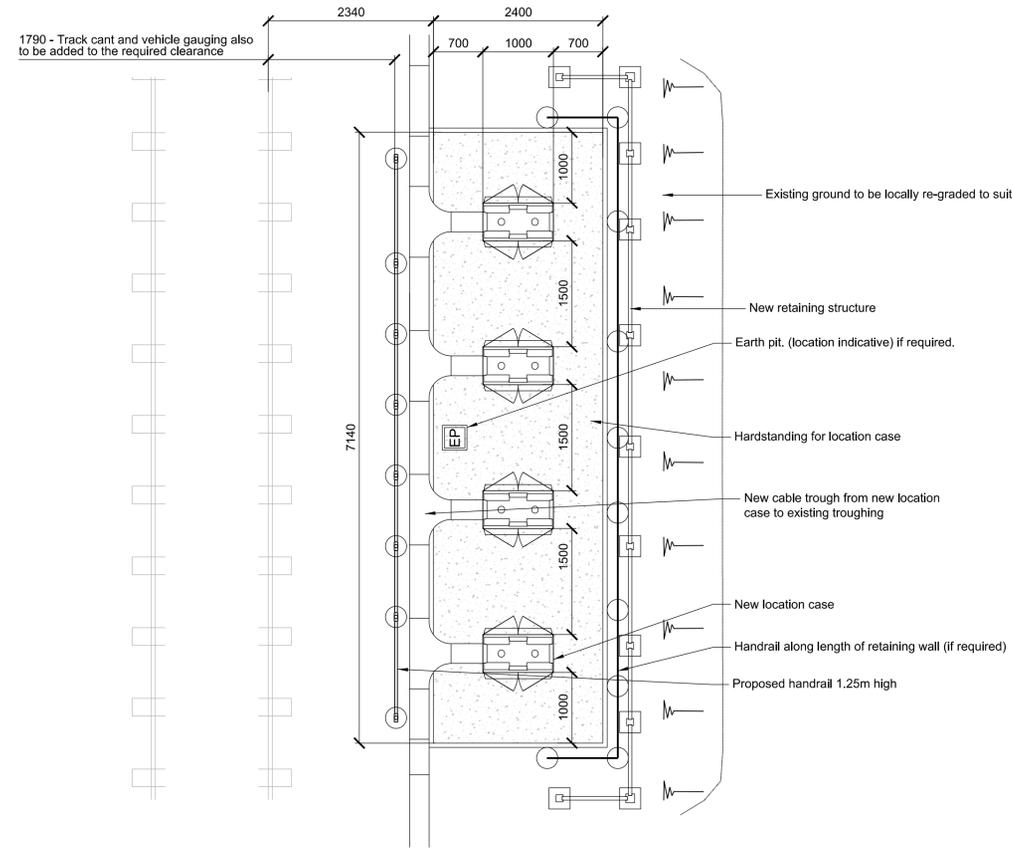
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Drawing Title	LINESIDE CIVILS CABINET GENERAL DETAILS 3						
Drawing File Name	D+WP56-ARP-P4-NL-DR-RO-200023	Sheet Number	1 of 1	Status	S3	Rev	P01

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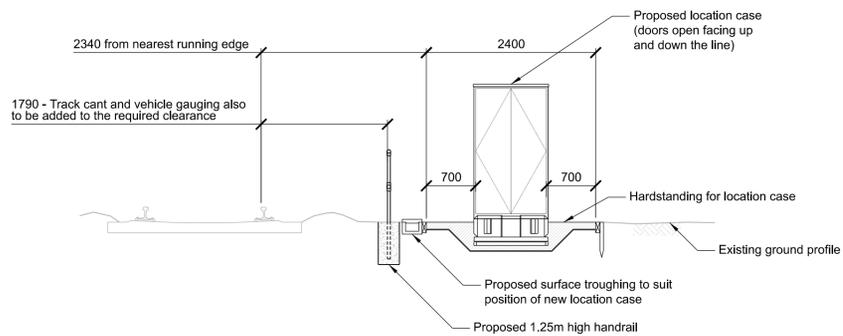
- Notes :
1. Do note scale from this drawing.
 2. All dimensions are in millimeters (mm) and all levels are in meters (m) unless otherwise stated.
 3. This drawing shall be read in conjunction with the other drawings included in this series.
 4. Refer to Book 3 Linear Works Plans for location of Lineside Civil Infrastructure.



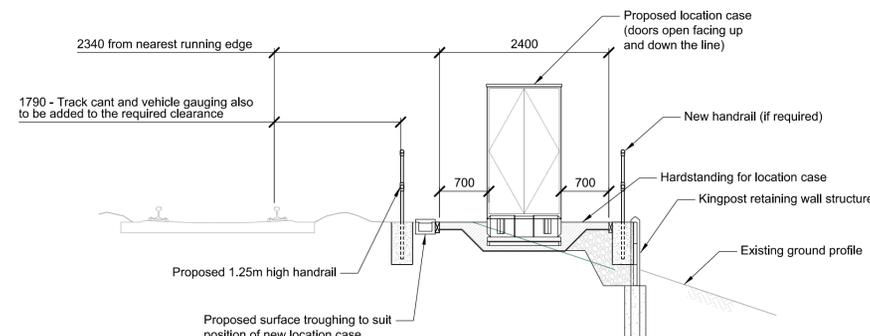
Level Ground - Plan
Scale 1:50



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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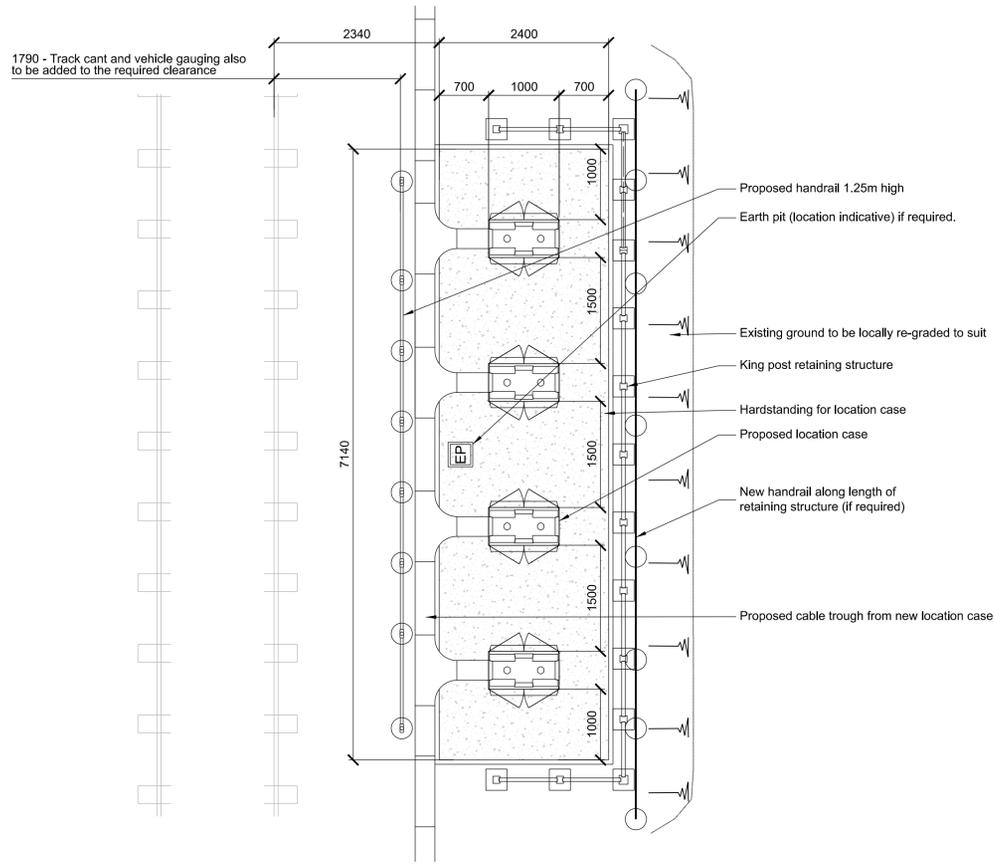
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P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

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

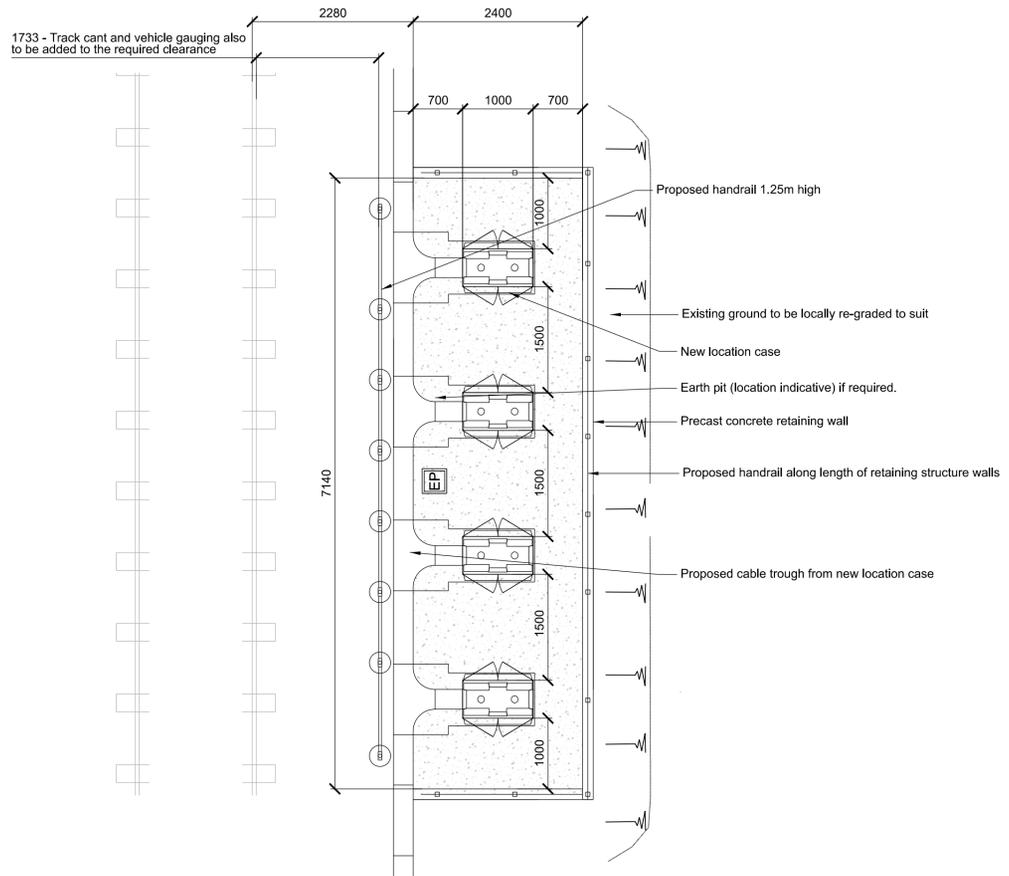
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Drawing Title LINESIDE CIVILS CABINET GENERAL DETAILS 4			
Drawing File Name	Sheet Number	Status	Rev
D+WP56-ARP-P4-NL-DR-RO-200026	1 of 1	S3	P01

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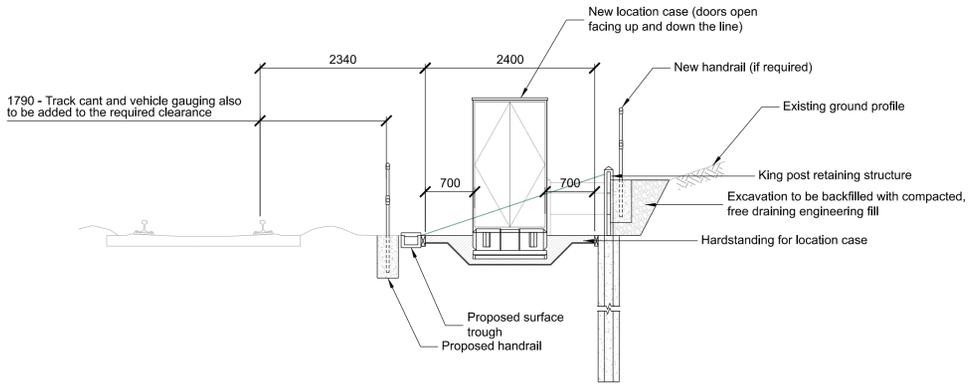
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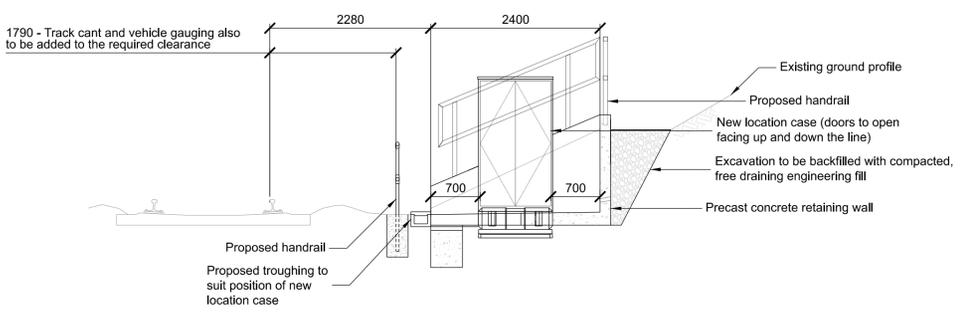
Retaining in Cutting - Plan
Scale 1:50



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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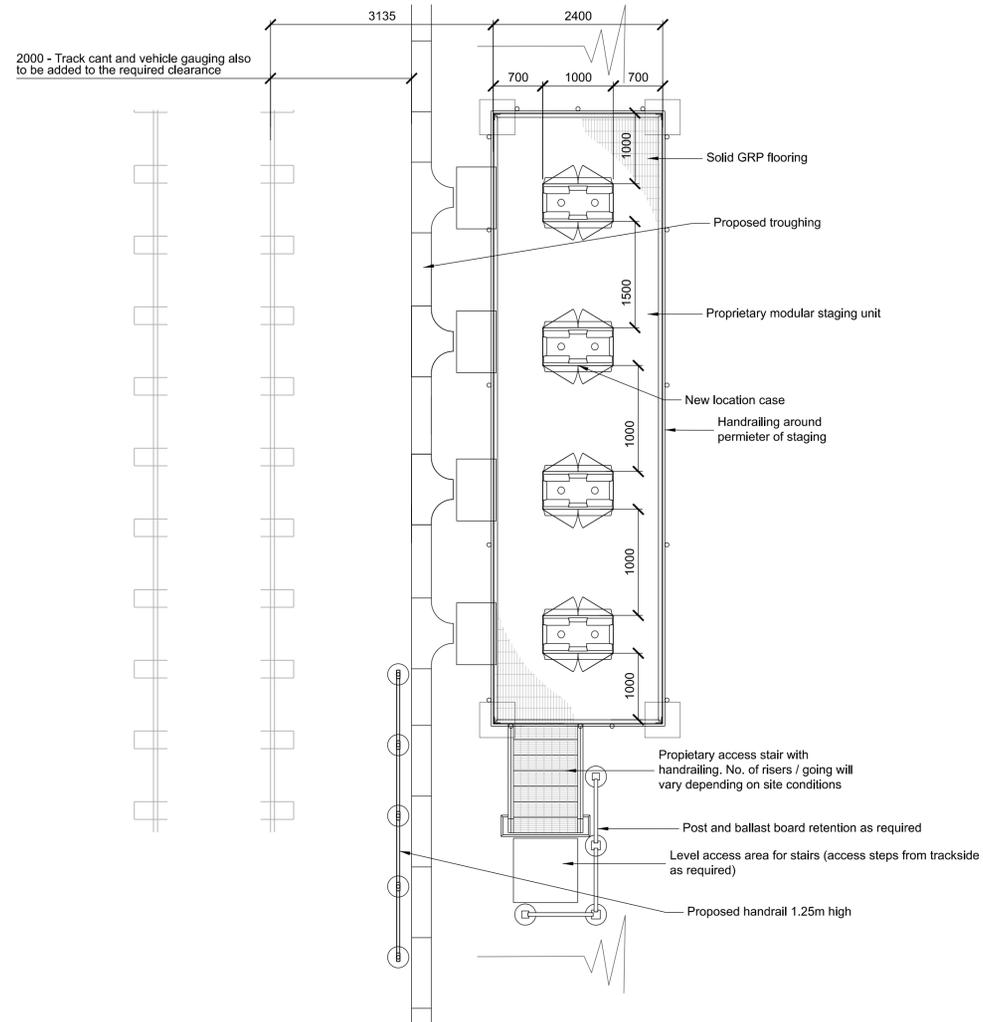
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P01	24/11/2023	JC	EJ	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 03/11/2023	Scale AS SHOWN	Drawn JC	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARUP	QMS Code 279933-00		

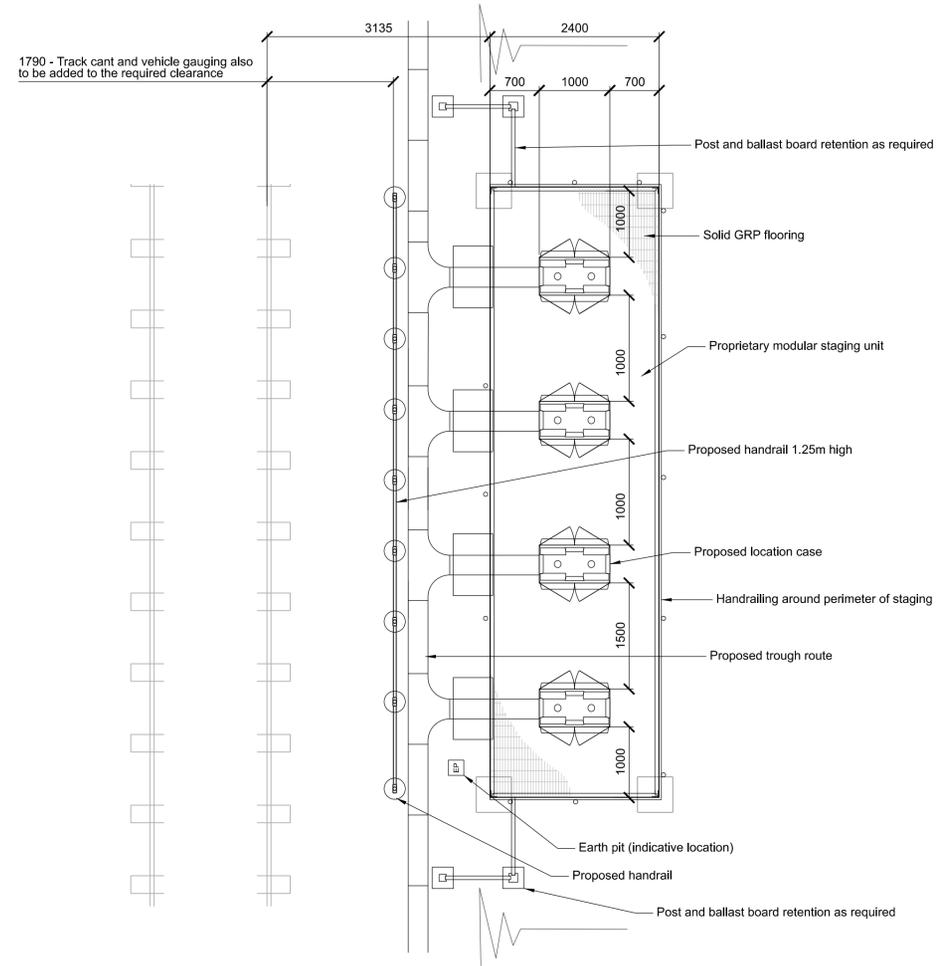
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Drawing Title LINESIDE CIVILS CABINET GENERAL DETAILS 5			
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200027	Sheet Number 1 of 1	Status S3	Rev P01

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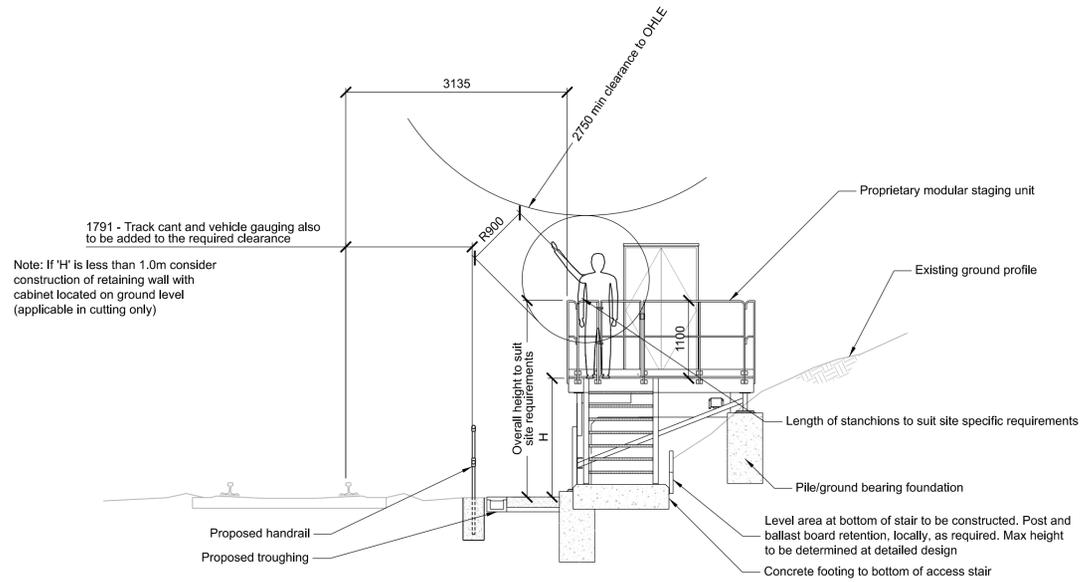
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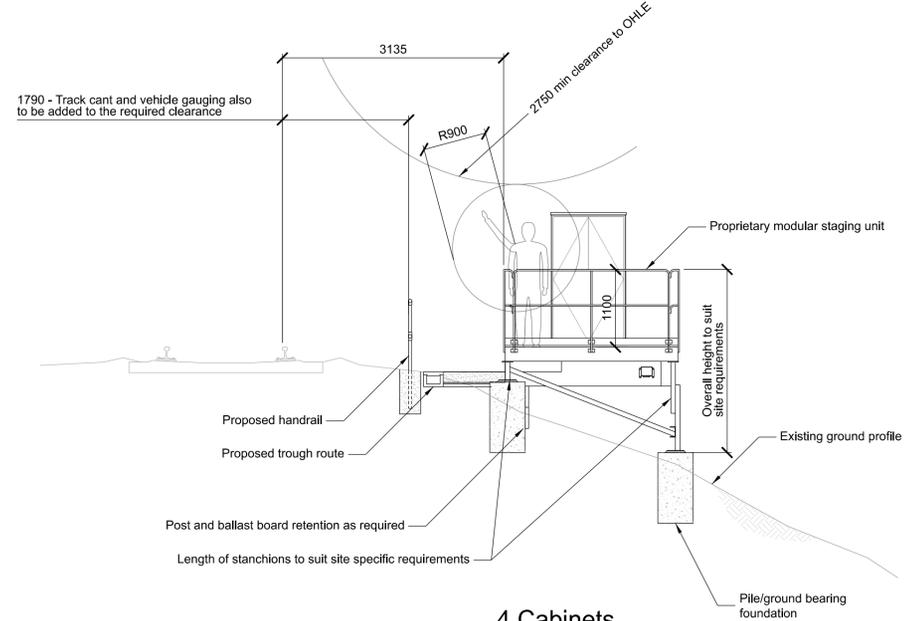
Staging in Cutting - Plan
Scale 1:50



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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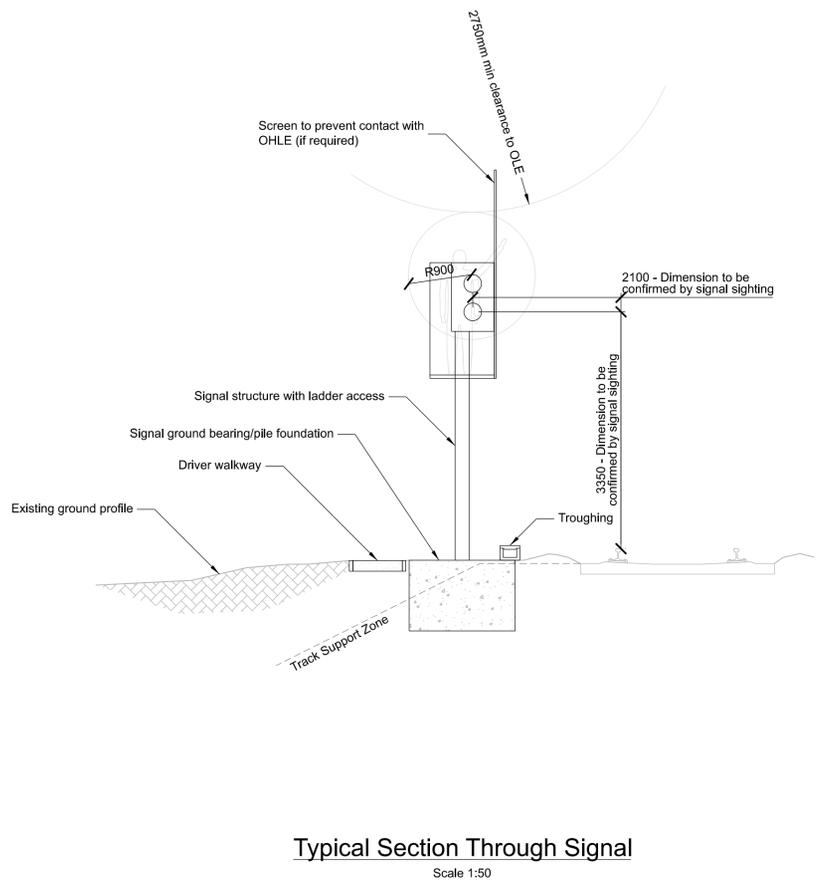


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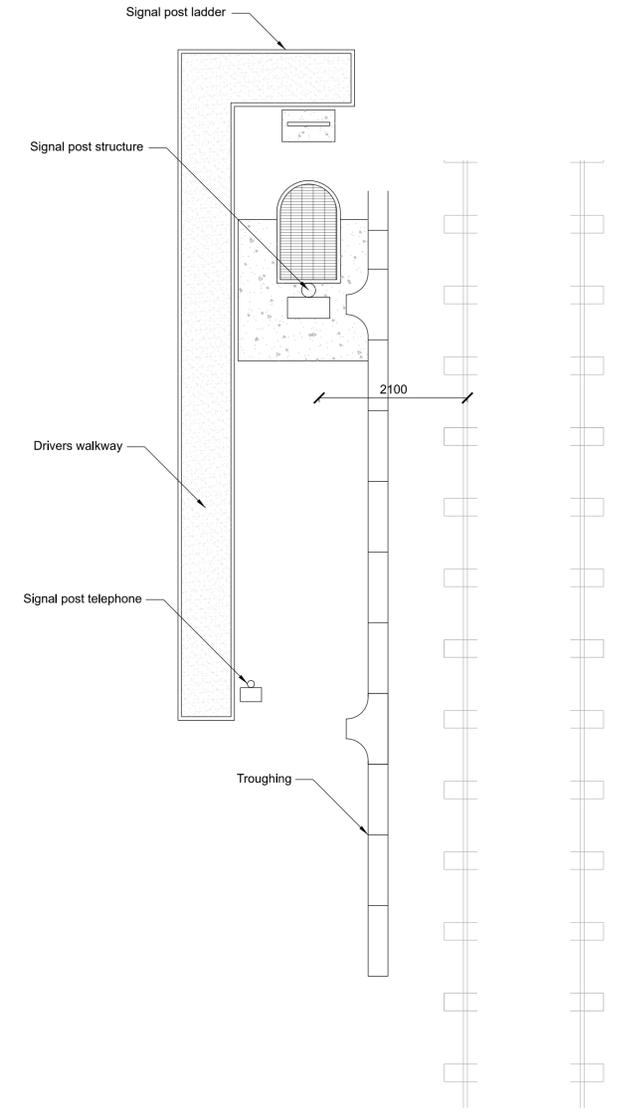
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Iarnród Éireann Irish Rail		ARUP			DART+ COASTAL NORTH	
Date	Scale	Drawn	Checked	Approved	Drawing Title	
03/11/2023	AS SHOWN @ A1 @ A3	JC	EJ	DB	LINESIDE CIVILS CABINET GENERAL DETAILS 6	
Project Code	Originator Code	QMS Code	Sheet Number		Status	Rev
D+WP56	ARUP	279933-00	1 of 1		S3	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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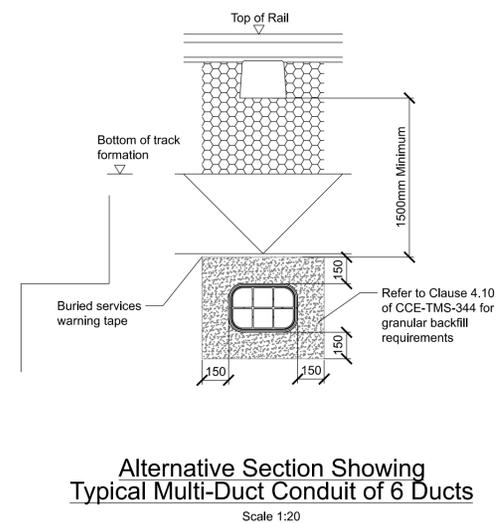
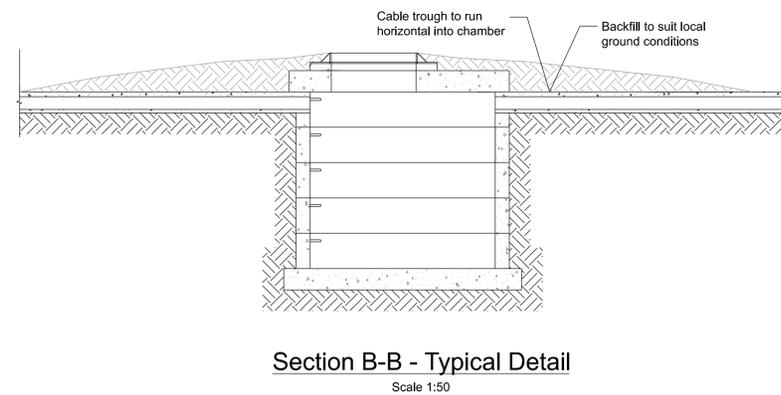
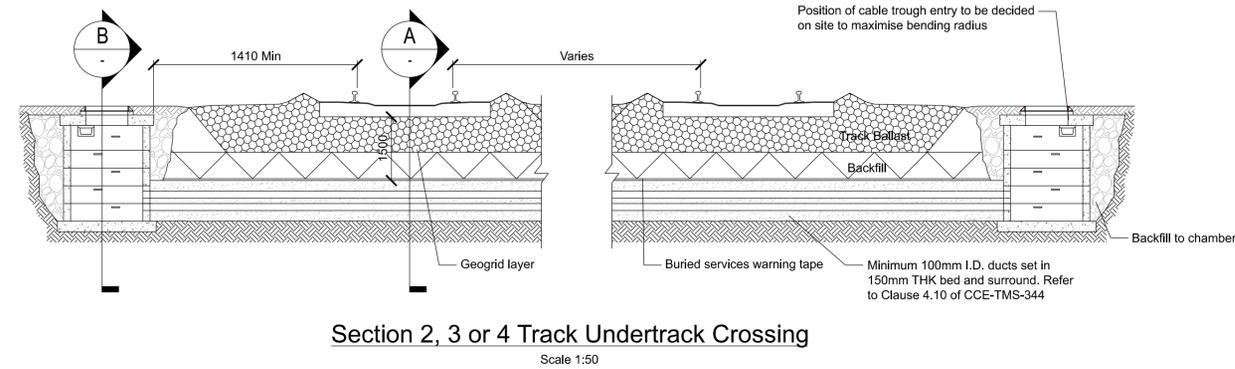
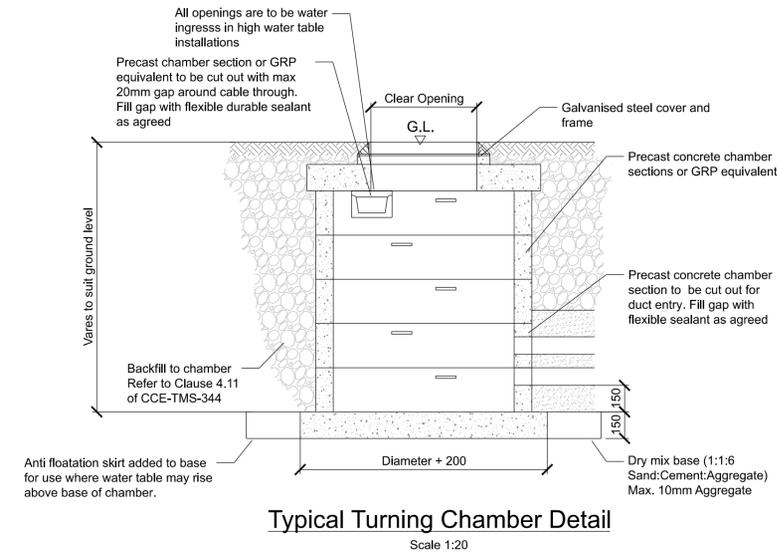
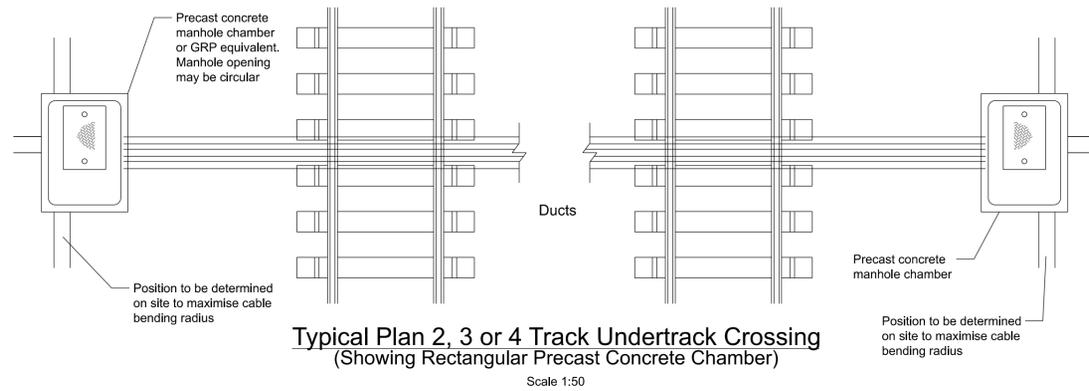
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P01	24/11/2023	JS	EJ	DB	PLANNING ISSUE

Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
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 SIGNAL POST GENERAL DETAILS				
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200024	Sheet Number 1 of 1	Status S3	Rev P01	

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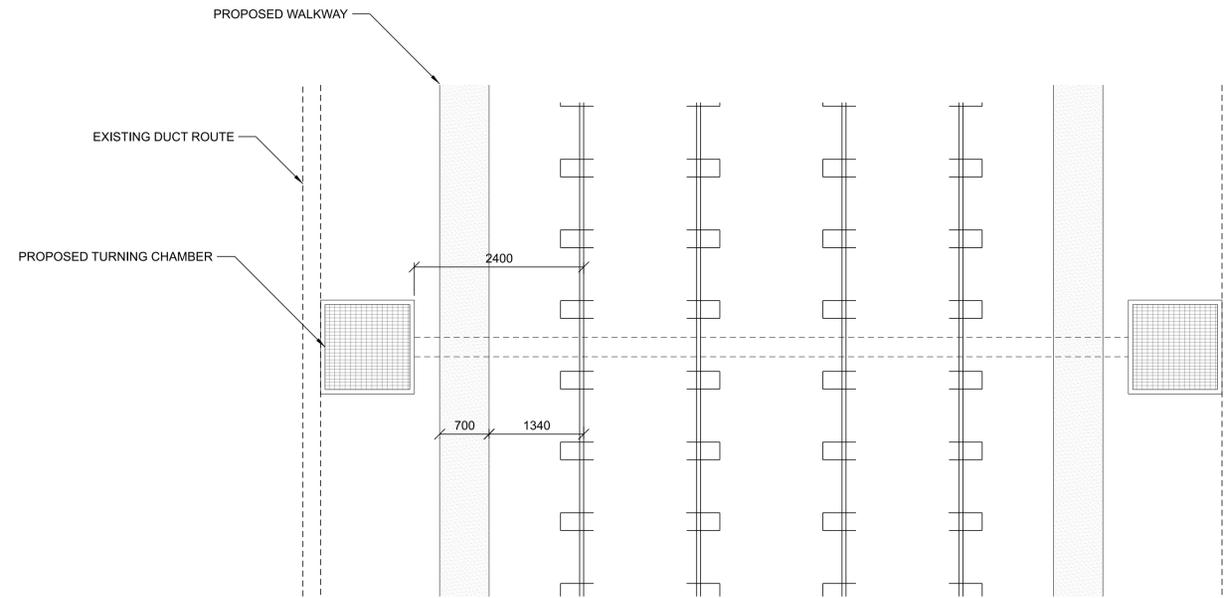
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Project Code D+WP56	Originator Code ARUP	QMS Code 279933-00		

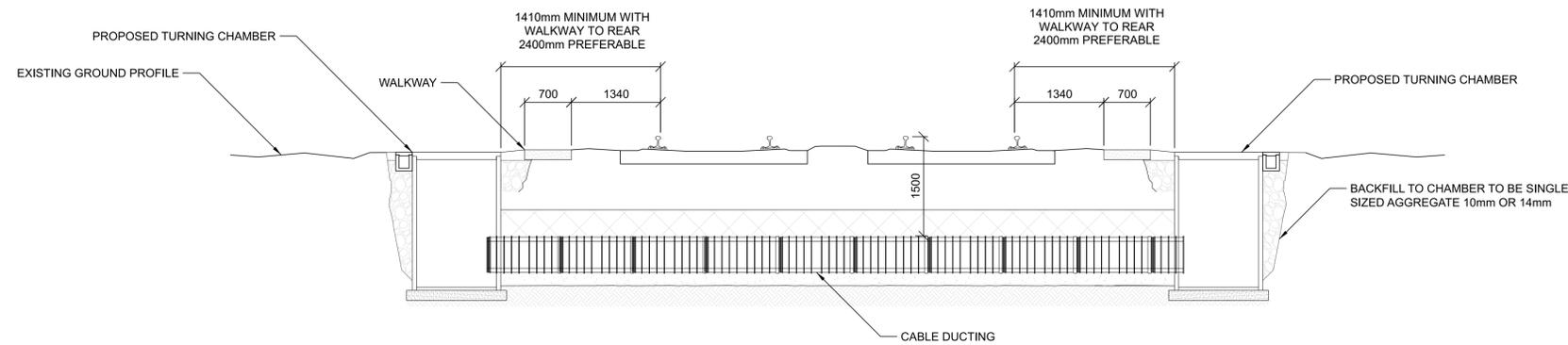
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Drawing Title LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 1				
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200025	Sheet Number 1 of 6	Status S3	Rev P01	

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TYPE A - PLAN
1:50



TYPE A - SECTION
1:50

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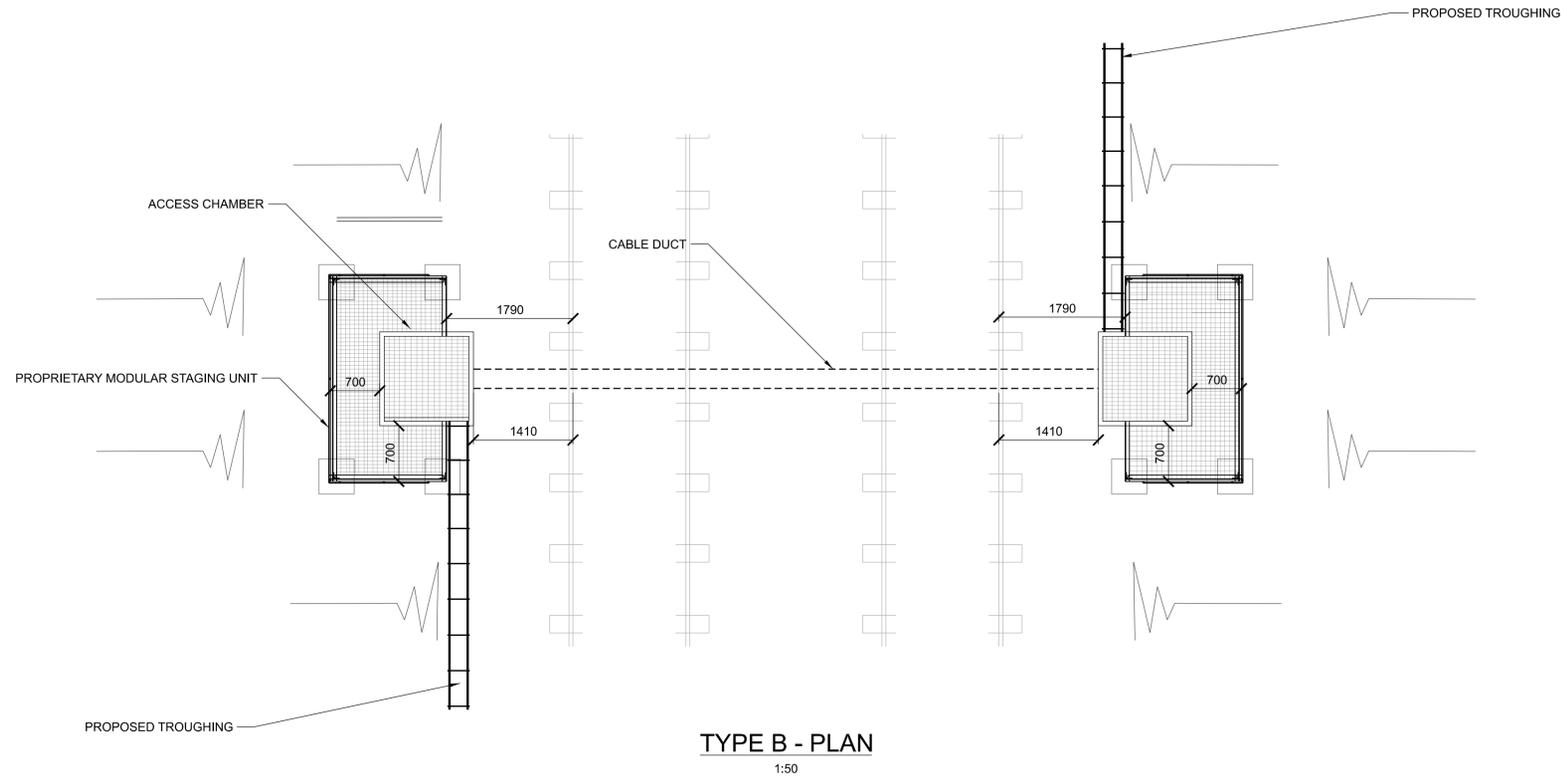


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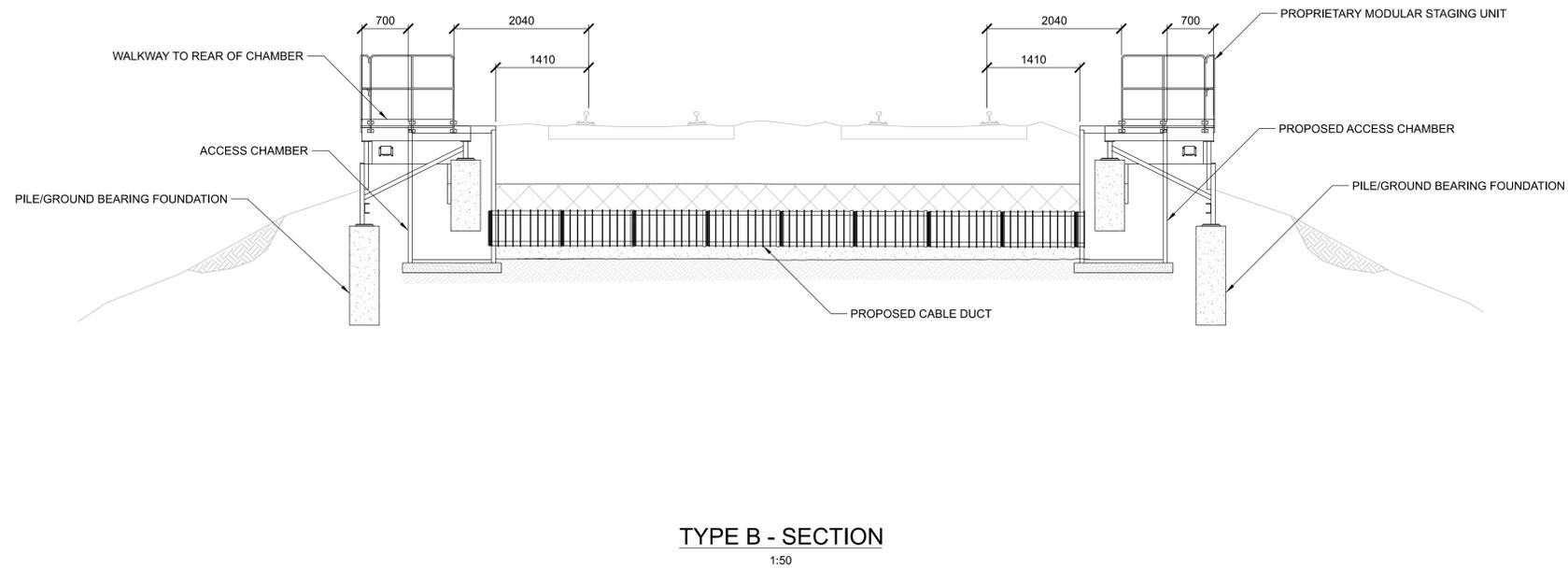
Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 03/11/2023	Scale AS SHOWN	Drawn SF	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARUP	QMS Code 279933-00		

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

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P01	24/11/2023	SF	EJ	DB	PLANNING ISSUE



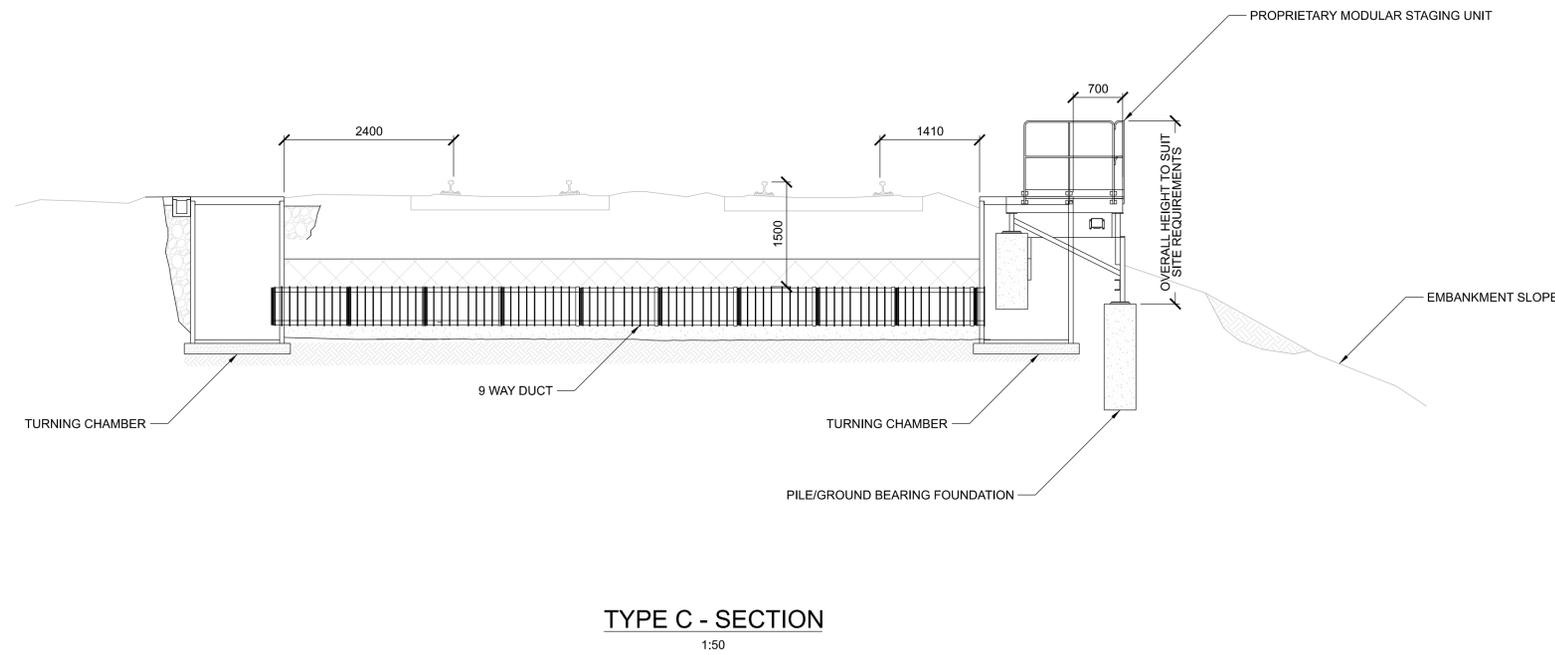
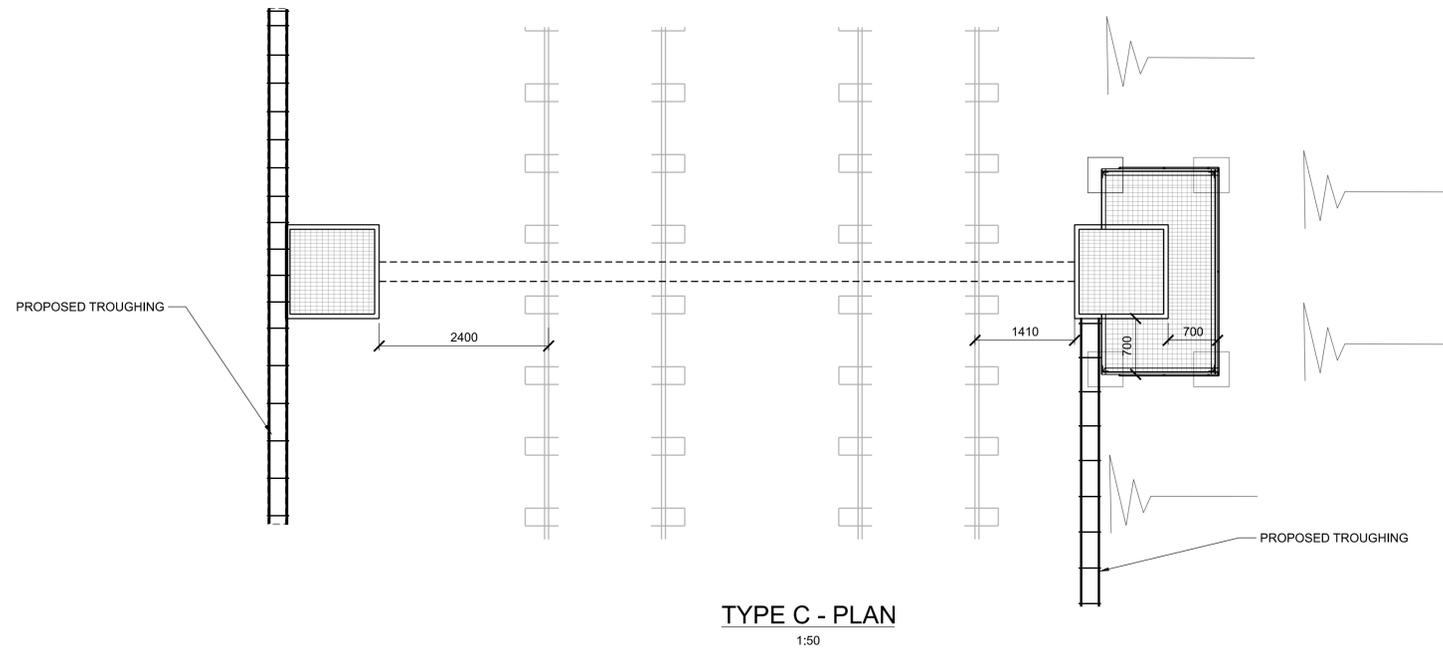
Date 03/11/2023
 Project Code D+WP56
 Scale AS SHOWN @ A1 @ A3
 Originator Code ARUP

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 D+WP56-ARP-P4-NL-DR-RO-200030	Sheet Number 3 of 6	Status S3	Rev P01

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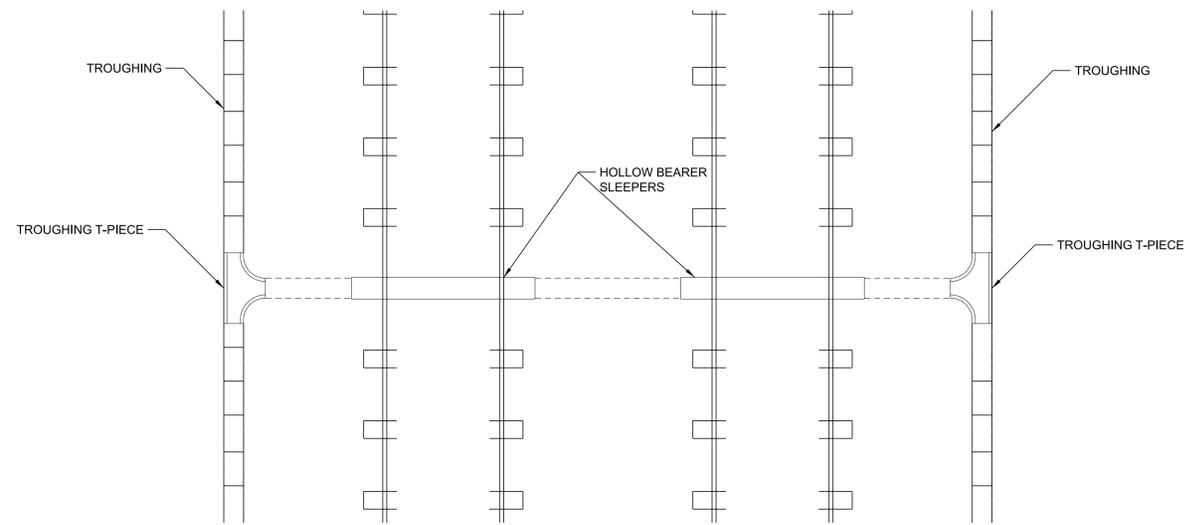
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P01	24/11/2023	SF	EJ	DB	PLANNING ISSUE

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

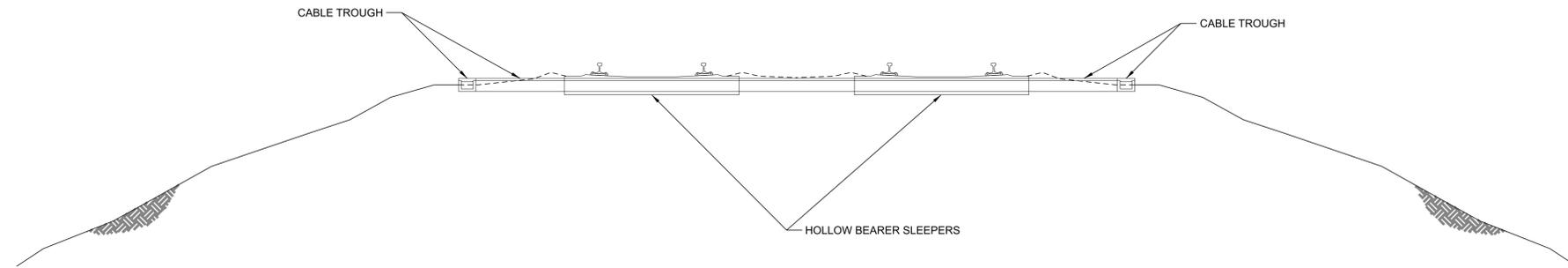
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Drawing Title LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 4				
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200031	Sheet Number 4 of 6	Status S3	Rev P01	

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TYPE D - PLAN
1:50



TYPE D - SECTION
1:50

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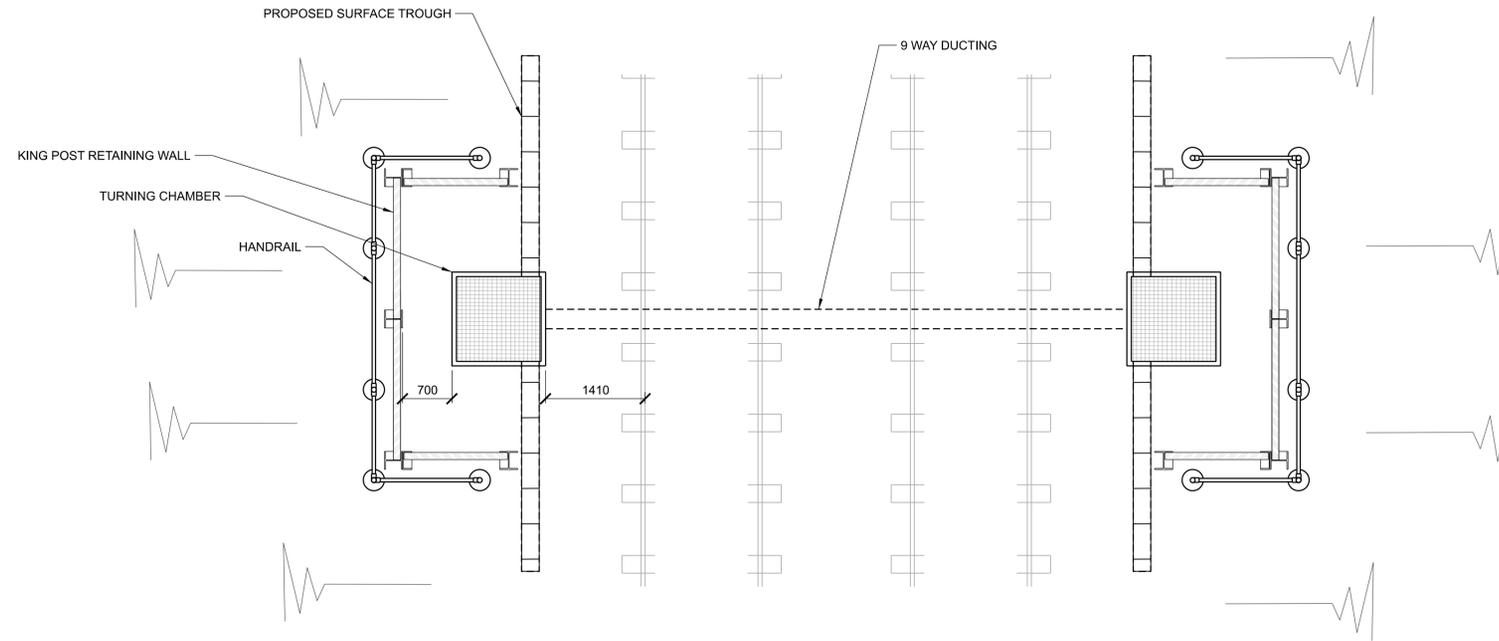


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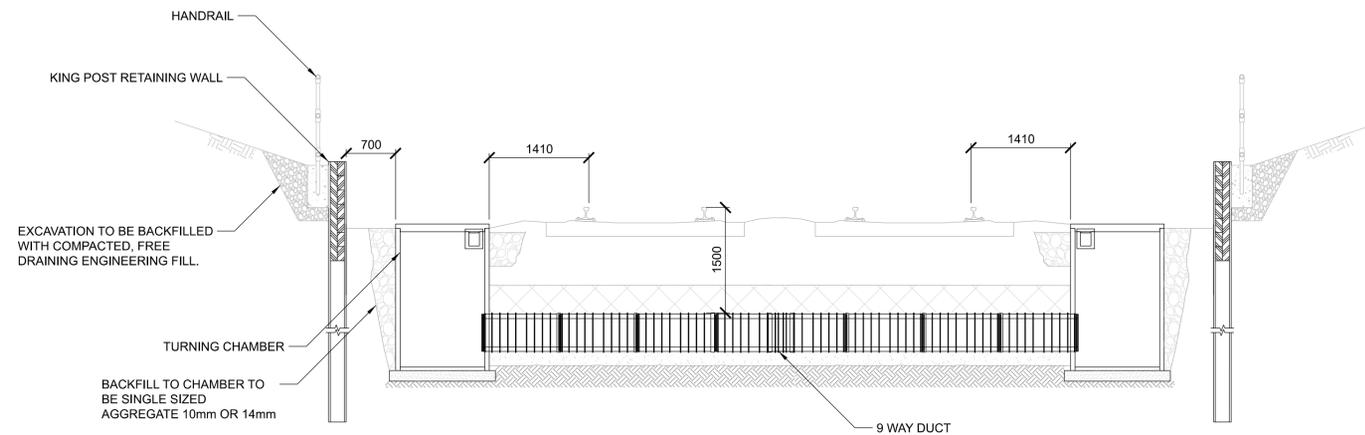
Client Iarnród Éireann Irish Rail		Engineering Designer ARUP		
Date 03/11/2023	Scale AS SHOWN @ A1 @ A3	Drawn SF	Checked EJ	Approved DB
Project Code D+WP56	Originator Code ARUP	QMS Code 279933-00		

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

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TYPE E - PLAN
1:50



TYPE E - SECTION
1:50

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Rev	Date	Drn	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 @ A1 @ A3
 Originator Code ARUP

Engineering Designer			Project Title		
Drawn SF	Checked EJ	Approved DB	DART+ COASTAL NORTH		
QMS Code 279933-00			Drawing Title		
			LINESIDE CIVILS UNDERTRACK CROSSING GENERAL DETAILS SHEET 6		
Drawing File Name D+WP56-ARP-P4-NL-DR-RO-200033			Sheet Number 6 of 6	Status S3	Rev P01

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