

Appendix A

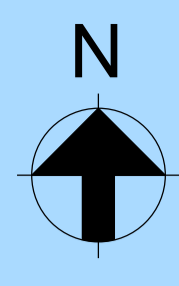
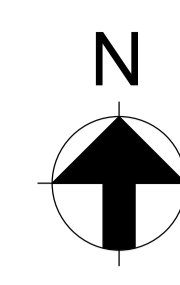
Drawings

A1 - Civil Drawings

A2 - Bridge Drawings

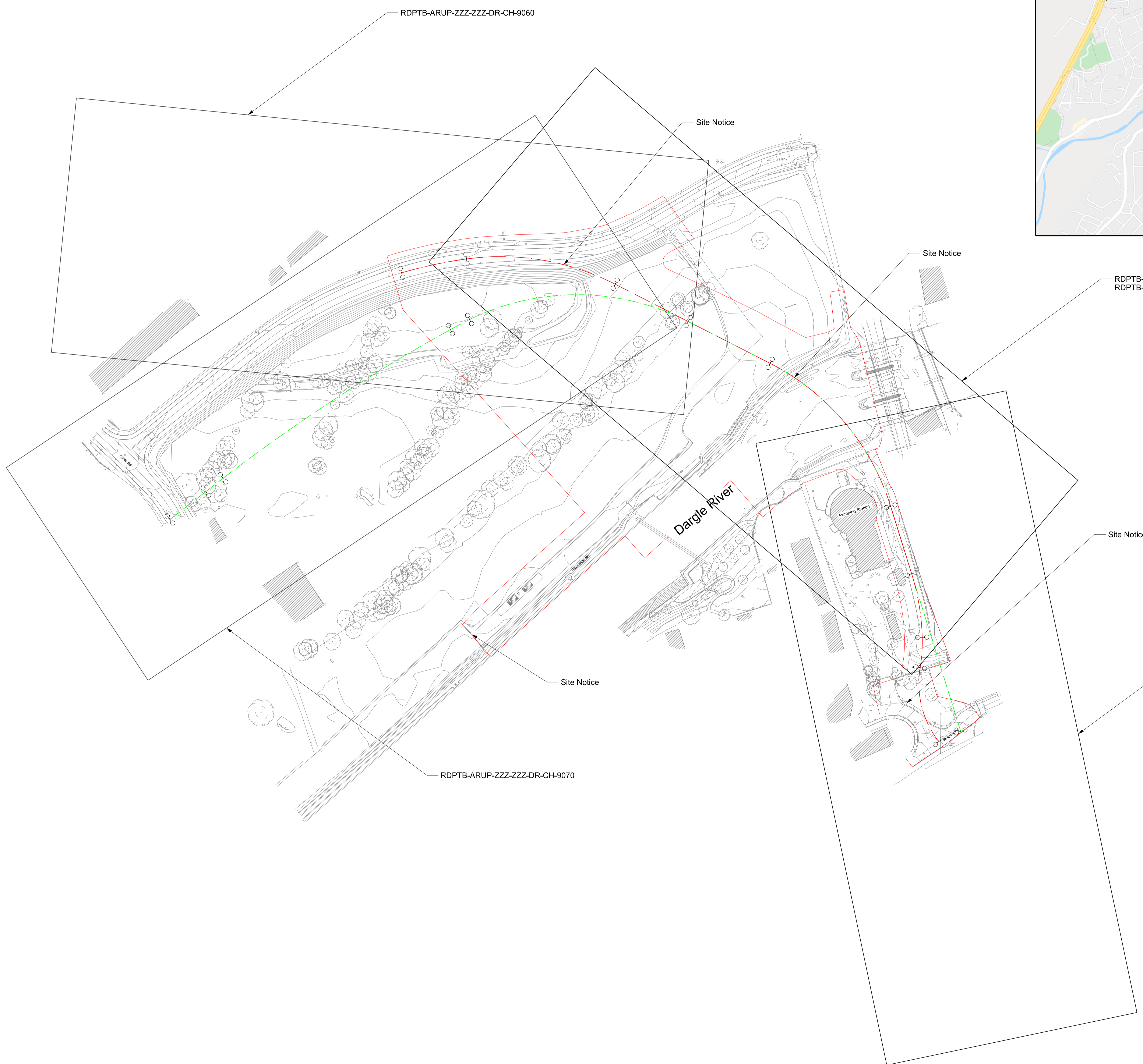
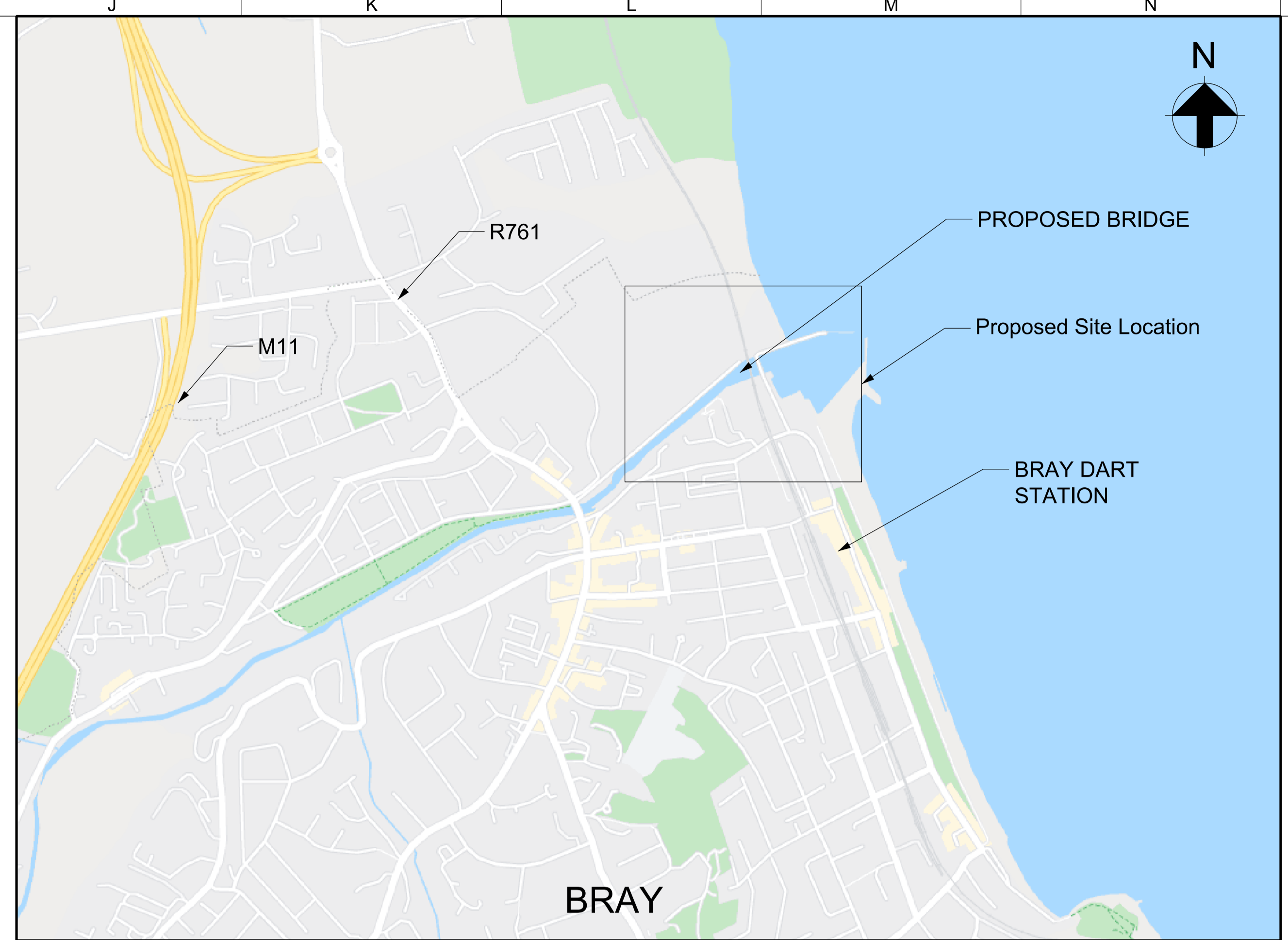
A1
1
2
3
4
5
6
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9
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11

A B C D E F G H I J K L M N



Key:

	PROPOSED ROAD CENTRELINE
	POTENTIAL FUTURE LIAS CENTRELINE (NOT PART OF PROJECT WORKS)
	RED LINE BOUNDARY



P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

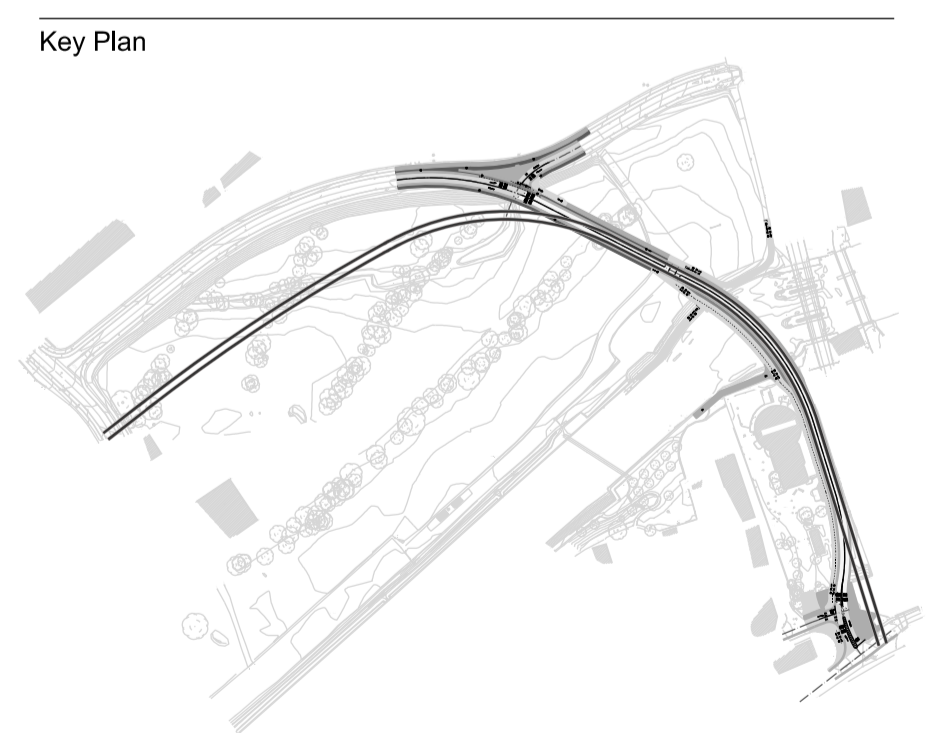
Rev	Date	By	Chkd	Appd

ARUP

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Dublin, D04 T6X0
Tel +353(0)1 233 4455 Fax +353(0)1 668 3169

Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Location Plan

Scale at A1
1:1250

Role
S4

Arup Job No 268095-00	Rev P03
Name RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9001	

PLAN
SCALE: 1:1250

0 25 50 75 100 125m
SCALE 1:1250
DO NOT SCALE

Do not scale

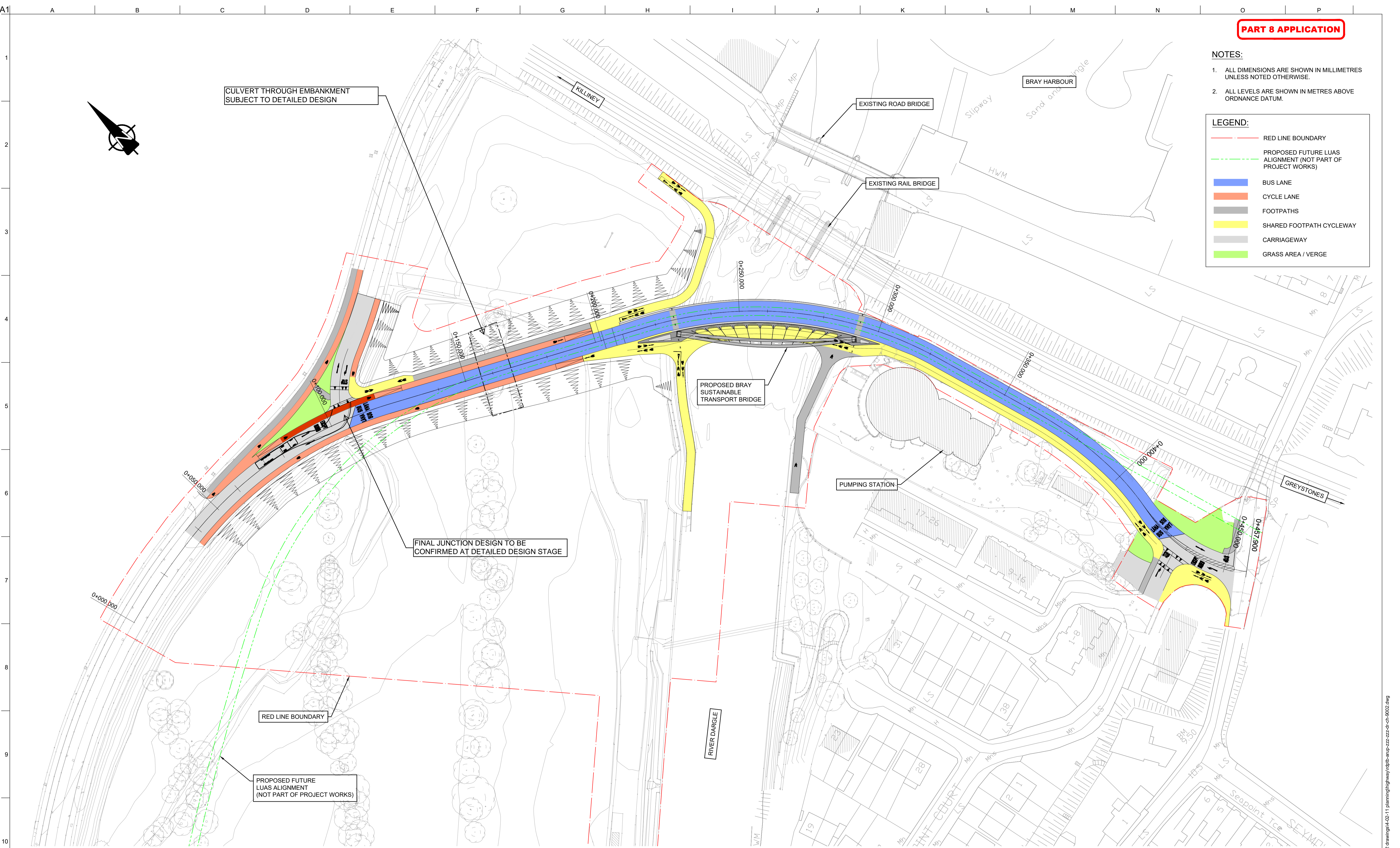
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NOTES:

- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

LEGEND:

	RED LINE BOUNDARY
	PROPOSED FUTURE LUAS ALIGNMENT (NOT PART OF PROJECT WORKS)
	BUS LANE
	CYCLE LANE
	FOOTPATHS
	SHARED FOOTPATH CYCLEWAY
	CARRIAGEWAY
	GRASS AREA / VERGE



LAYOUT PLAN
SCALE 1:600

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Government of Ireland

Tionscadal Éireann
Project Ireland
2040

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No.	Date	Off. OK	Amendment / Issue	App
P01	09/07/21		ISSUED FOR PART 8 APPLICATION (S4)	MS

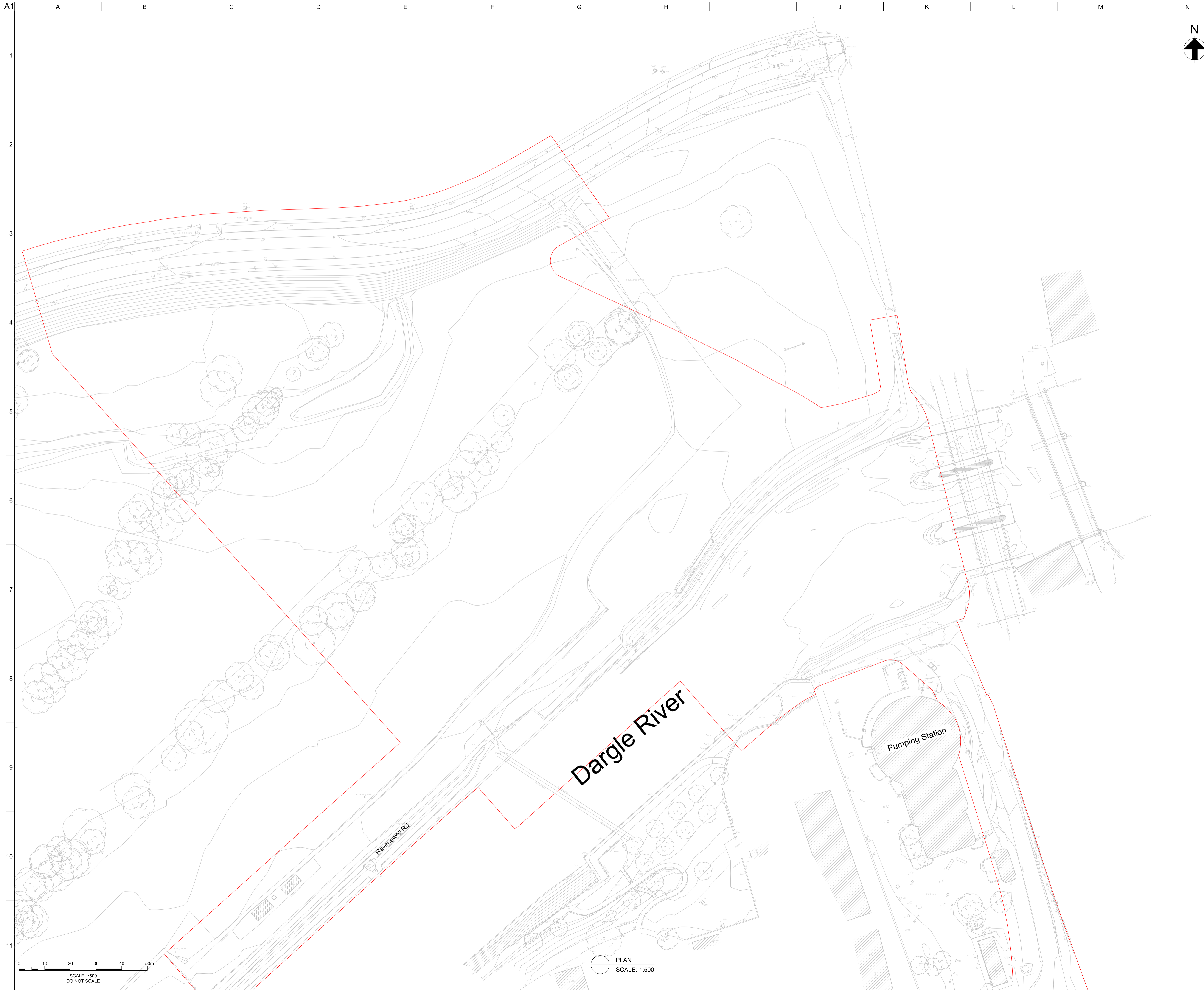


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Drawn: PD	Checked: CG	Approved: MS	Date: 09.07.21	Scale: AS SHOWN @ A1	Status: S4	Job No: 268095	Project: BRAY SUSTAINABLE TRANSPORT BRIDGE	Title: LAYOUT PLAN	Rev. P01
Drg. No. RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9002							Rev. P01		

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Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

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— RED LINE BOUNDARY

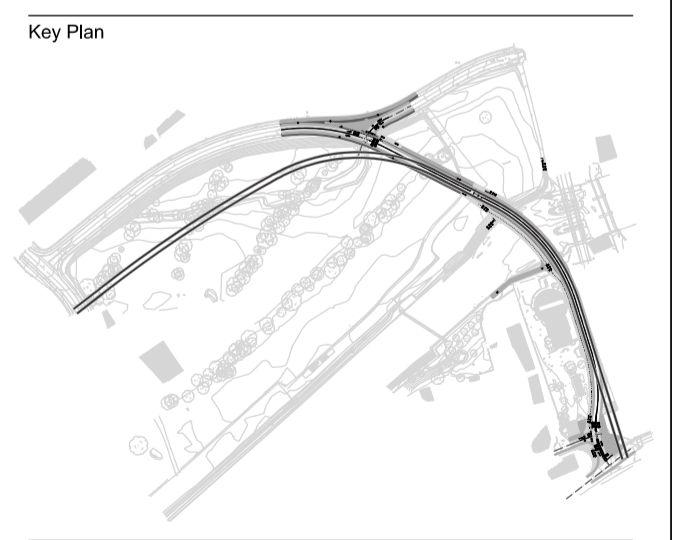
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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG
Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Site Boundary Sheet 1 out of 2

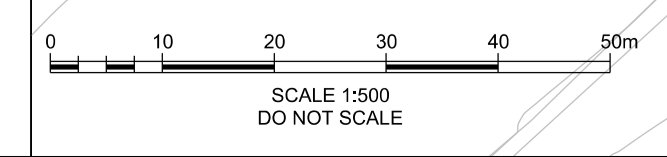
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Role
 Suitability S4

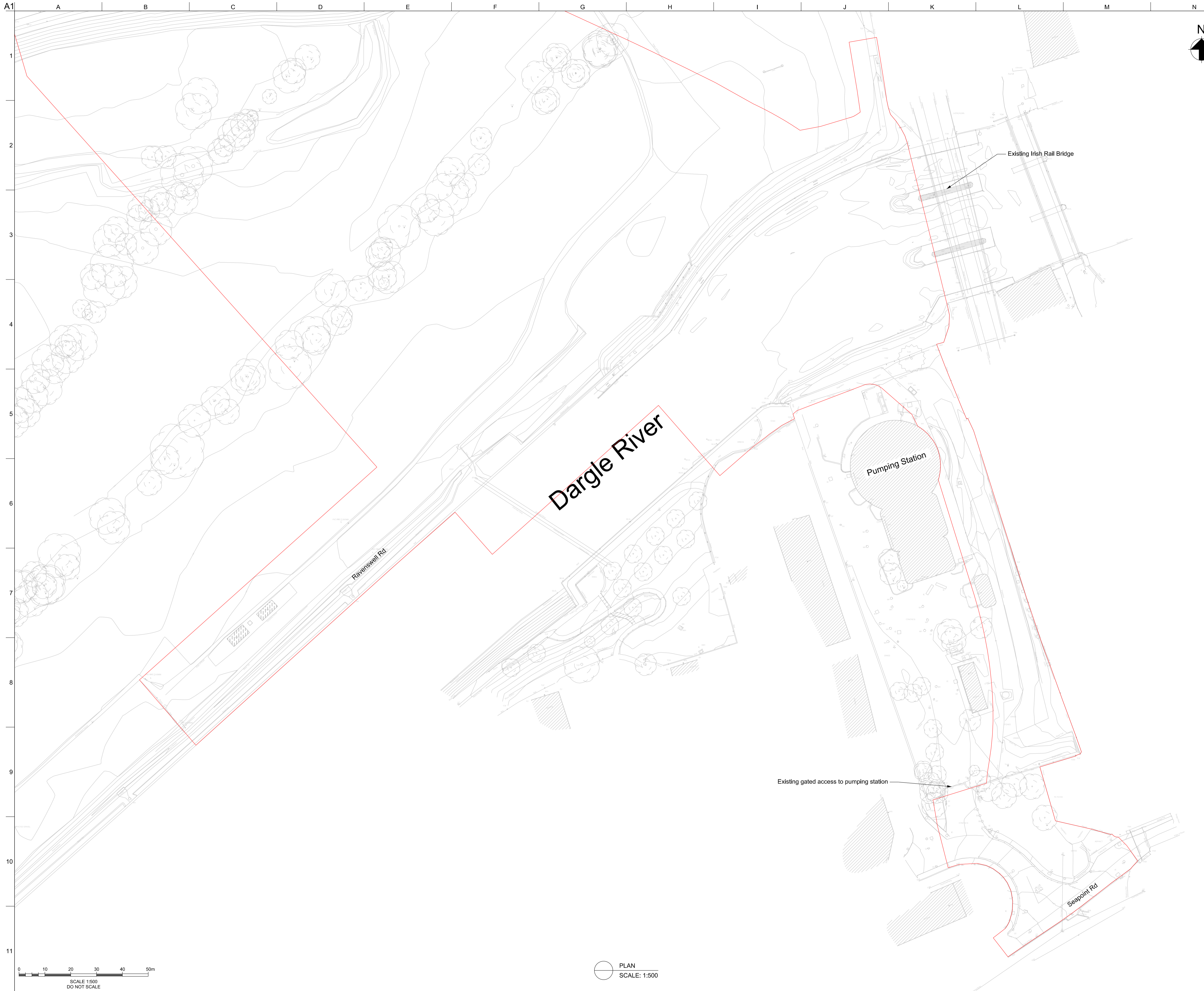
Arup Job No
268095-00

Rev
P03

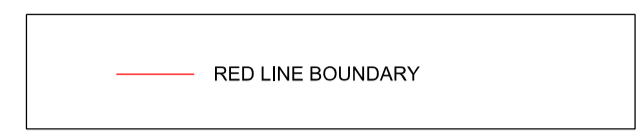
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PLAN
 SCALE: 1:500



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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

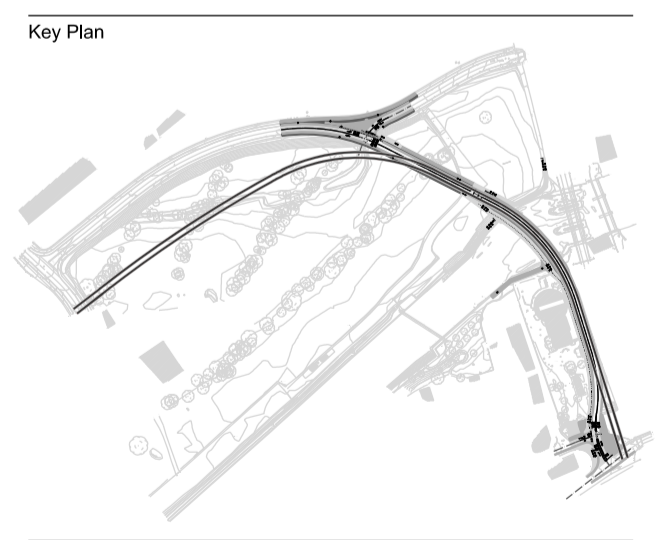
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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Site Boundary Sheet 2 out of 2

Scale at A1
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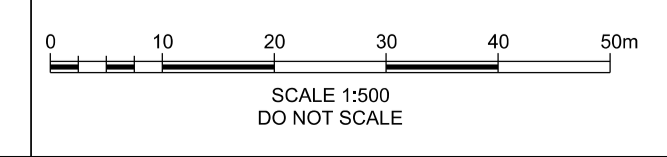
Role

Suitability
 S4

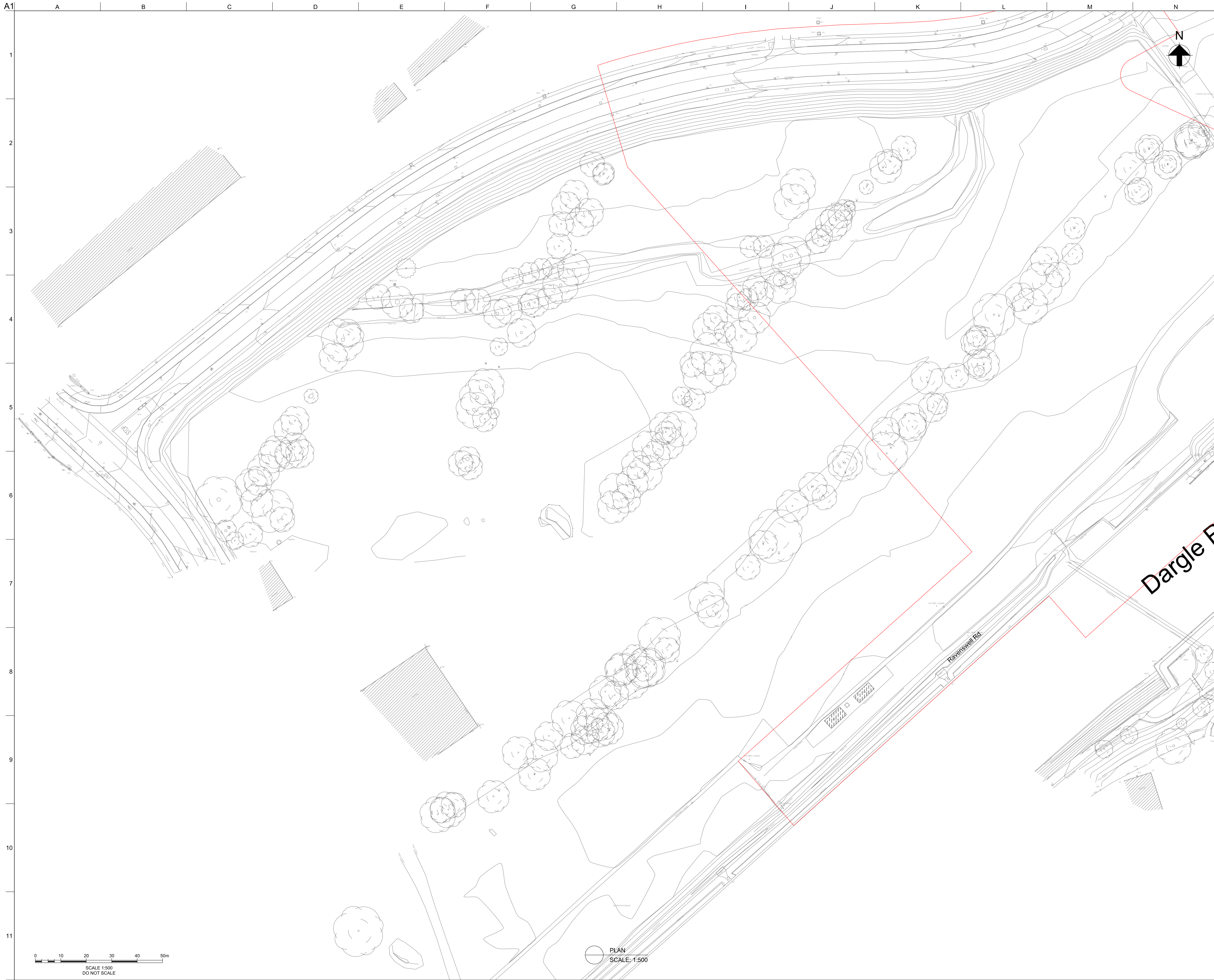
Arup Job No
268095-00

Rev
P03

Name
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9011



PLAN
 SCALE: 1:500



Key:
 All road and land ownership boundaries are verified through Legal and Land searches by the Client.
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- LEGEND**
- Street furniture & Services**
- 5.12 Over Head Wires (LUAS) - Pylon ESB
 - 5.12 Fibreoptic
 - 5.12 Pole
 - 5.12 Lamp
 - 5.12 Barrier
 - 5.12 Pump
 - 5.12 Trip Rail
 - 5.12 Bus/Firm Shelter
 - 5.12 Precast
 - 5.12 Valve - General
 - 5.12 Water Valve
 - 5.12 Gas Valve
 - 5.12 Air Valve
 - 5.12 Stop Cock
 - 5.12 CPPO C/P Post
 - 5.12 MKO Marker Post
 - 5.12 TLO Traffic Light
 - 5.12 PMSO Parking Meter
 - 5.12 PMSO1 Plane Aerial Mark
 - 5.12 SCVO Smart Cart Valve
 - 5.12 Unknown Valve
 - 5.12 surface Change
 - 5.12 Land Drain
 - 5.12 bottom of Slope
 - 5.12 top of Slope
 - 5.12 ditch
 - 5.12 Water Edge / Lake / Pond
 - 5.12 Hedge / Trees Drip Line / Vegetation
 - 5.12 Tree Contour
 - 5.12 Tree Deciduous
 - 5.12 Tree Coniferous
 - 5.12 Building
 - 5.12 Bridge Road
 - 5.12 Kerb Bottom
 - 5.12 Kerb Top
 - 5.12 Bridge Abutment
 - 5.12 Bridge Deck
 - 5.12 Bridge Pier
 - 5.12 Bridge Pier / Wall & Gate Pile
 - 5.12 Cycleway / Private Landing Area
 - 5.12 Fence
 - 5.12 Road Centreline
 - 5.12 Top of Wall
 - 5.12 Hoarding
 - 5.12 Property Line
 - 5.12 Road Scar
 - 5.12 Top of Fence
 - 5.12 Wall / Retaining Wall
 - 5.12 Railway / Tram Rail / Grading / Ramp
 - 5.12 Building / Wall & Gate Pile / LUAS Trackbed
 - 5.12 Building Canopy / Roof / Overhang
 - 5.12 Floor Level
 - 5.12 Apex Height
 - 5.12 Eaves Height
 - 5.12 Parapet Height
 - 5.12 Soft Elevation
 - 5.12 Step Level
 - 5.12 Concrete Pad
 - 5.12 Trench
 - 5.12 Water Level
 - 5.12 Green
 - 5.12 Invert level
 - 5.12 Bed Level
 - 5.12 Survey Station
 - 5.12 Photo point
 - 5.12 Top of Tree
- Natural Features**
- 5.12 Water Level
 - 5.12 Green
 - 5.12 Invert level
 - 5.12 Bed Level
 - 5.12 Survey Station
 - 5.12 Photo point
 - 5.12 Top of Tree
- Built Features**
- Roads & Road Markings**
- 5.12 Fence
 - 5.12 Gate
 - 5.12 Road Centreline
 - 5.12 Top of Wall
 - 5.12 Hoarding
 - 5.12 Property Line
 - 5.12 Road Scar
 - 5.12 Top of Fence
 - 5.12 Wall / Retaining Wall
 - 5.12 Railway / Tram Rail / Grading / Ramp
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 - 5.12 Apex Height
 - 5.12 Eaves Height
 - 5.12 Parapet Height
 - 5.12 Soft Elevation
 - 5.12 Step Level
 - 5.12 Concrete Pad
 - 5.12 Trench

RED LINE BOUNDARY

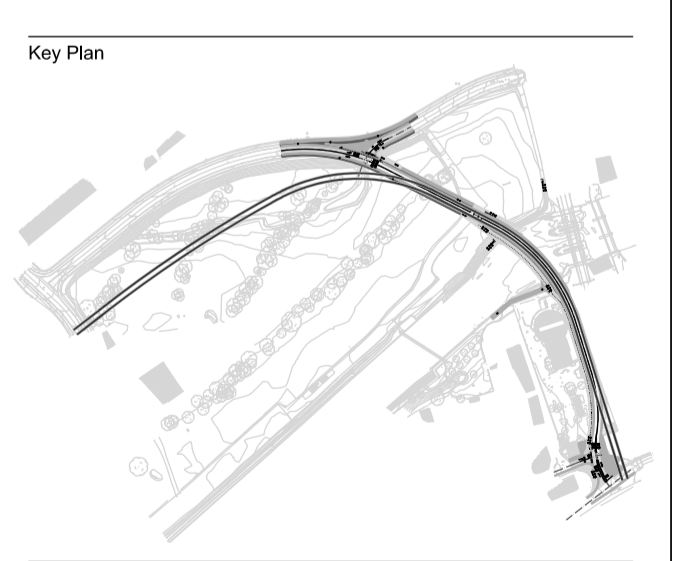
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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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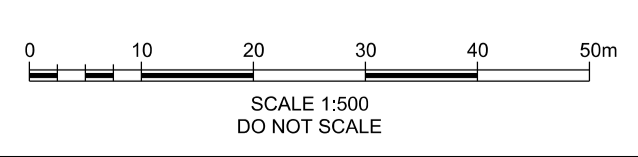
Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE

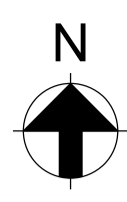
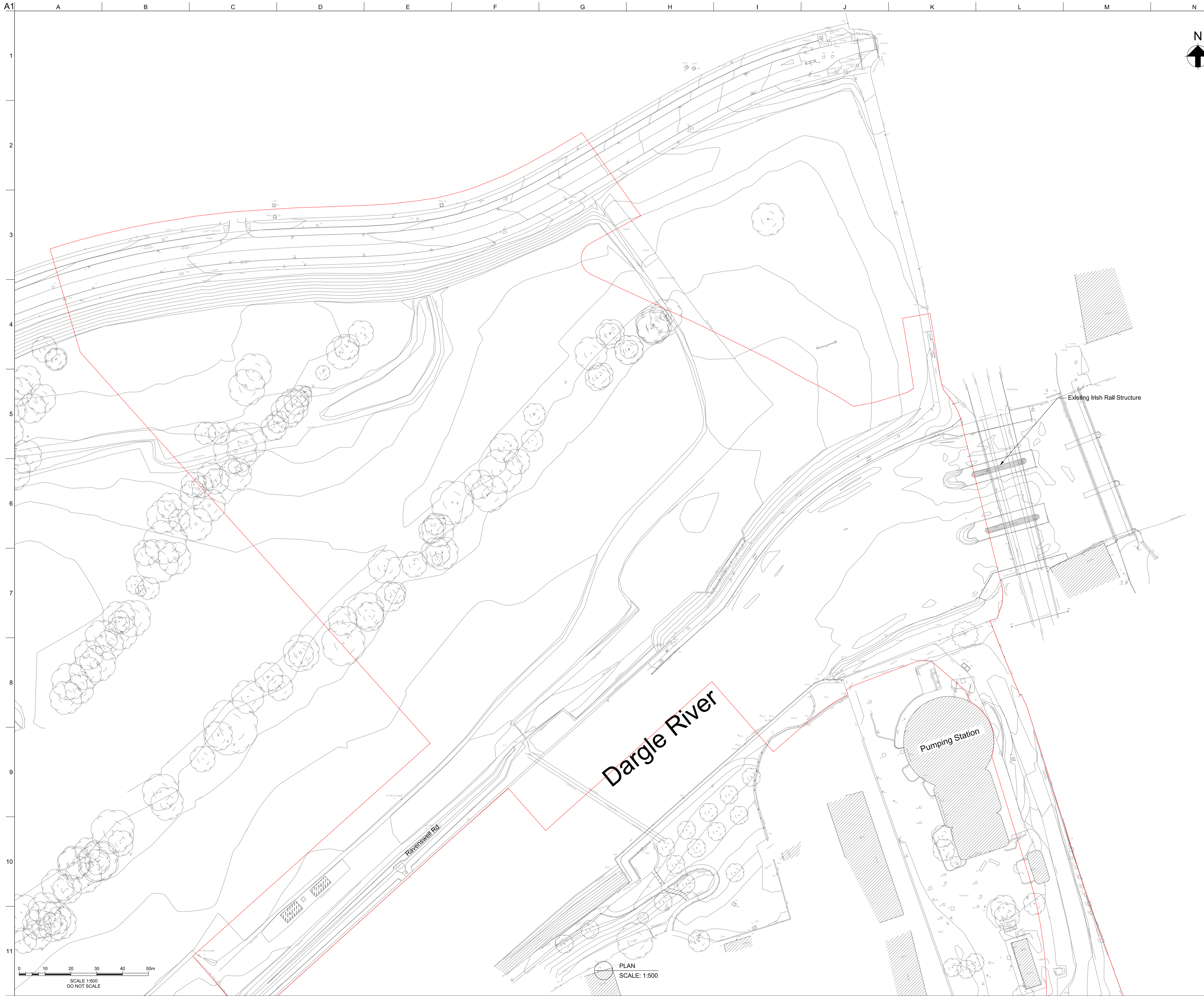


Drawing Title
Existing Topographical Survey Sheet 1 out of 3

Scale at A1: 1:500
 Role:
 Suitability: S4
 Arup Job No: **268095-00** Rev: **P03**
 Name:
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9020



PLAN
 SCALE: 1:500



Key:
 All road and land ownership boundaries are verified through Legal and Land searched by the Client.
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LEGEND
Street furniture & Services

5.12 Over Head Wires (LUAS) - Plan ESB	RS	RS	Road Sign	PHOX	Phone Box
5.12 Pavedbed	BSO	Bus Stop		Bench Seat	Duct
5.12 Pipe	BD	Ballast		Kiosk	Gas Cover
5.12 Can	BSAC	Basoon		Car Critical	C/P Box
5.12 Barter	CHC	Coalhole Cover	UG Valve	UG Car Park Vent	
5.12 Pump	BHC	Bore Hole	BN	Waste Bin	
5.12 Trial Pit	EP	Electricity Pole	HY	Hydrant	
5.12 Bus/Tam Shelter	TP	Telegram pole	PH	Fire Hydrant	
5.12 Postbox	OSF	OSF Pole	ESB	ESB Box	
5.12 Valve - General	CP	CCTV Camera Pole	ICR	ESB Inspection Cover	
5.12 Water Valve	LP	Lamp Post	TTB	Traffic Control Box	
5.12 Gas Valve	FME	Foul Manhole	LUAS	LUAS Technical Cask	
5.12 Skilce Valve	SM	Surface Water MH		Ticket Vending Machine	
5.12 AP Valve	MM	Manholes	WM	Water Meter Cover	
5.12 Stop Cook	AS	Air Conditioning Valve	IC	Telecom Inspection Cover	
CPPO C/P Post	KCU	Services Inspection Cover		Monument / Toilet	
MK Marker Post	ICTC	Traffic Inspection Cover		Tank Storage	
TLO Traffic Light	ICTV	Cable TV Inspection Cover		Basement MH Cover & Pipe	
PHM Parking Meter	ICES	ESAT Inspection Cover		Dashed Aerial Mark	
FRAMD Floor Aerial Mark	ICMC	NTL Inspection Cover		STAY	Stop for gable
SCV Smart Card Validator	IKEM	Excom Inspection Cover		PP	Pipe Protection
5.12 Unknown Valve		Roading Eye		Washout	

Natural Features

5.12 Surface Change	+	Water Level	FWAY	Fair Way
5.12 Land Drain	+ CRWN	Crown Level	GRNE	Green
5.12 Bottom of Slope	+ B	Invert Level	TBOX	Tree Box
5.12 Top of Slope	+	Bed Level		
5.12 ditch	+			
5.12 Water Edge / Lake / Pond				
Hedge / Trees Dip Line / Vegetation				
Tree Contour				

Golf

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Other

S1	Survey Station
	Photo point

Built Features

Roads & Road Markings

5.12 Building	5.12 Fence	Floor Level
5.12 Edge of Road	Gate	Gate
5.12 Kerb Bottom	5.12 Road Centreline	APX
5.12 Kerb Top	5.12 Top of Wall	APW
5.12 Bridge Abutment	5.12 Hoarding	APR
5.12 Bridge Deck	5.12 Property Line	APL
5.12 Bridge Parapet	5.12 Road Scar	APC
5.12 Building Facade	5.12 Top of Fences	APF
5.12 Footpath / Platform / Trench	5.12 Wall / Retaining Wall	APW
5.12 Clump Proof / Course / Verge	5.12 Railway / Train Rail / Grating / Ramp	APR
5.12 Bridge Pier / Wall & Gate Piler / LUAS Trackbed	5.12 Building / Roof / Overhang	APB
5.12 Cycleway / Private Landing Area		

— RED LINE BOUNDARY

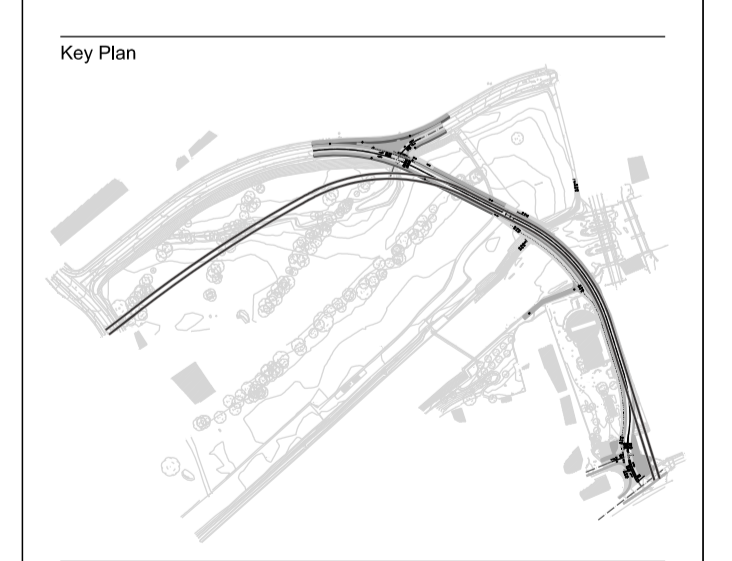
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PO2	21/07/20	ABG	AS	CG
PO1	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Existing Topographical Survey Sheet 2 out of 3

Scale at A1: 1:500
 Role:
 Suitability: S4
 Arup Job No: **268095-00** Rev: **P03**
 Name:
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9021

PART 8 APPLICATION

- NOTES:**
- ALL DIMENSIONS ARE SHOWN IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE SHOWN IN METRES ABOVE ORDNANCE DATUM.

LEGEND:

- FOUL — EXISTING FOUL SEWER
- GAS — EXISTING GAS
- WATER — EXISTING WATERMAIN
- ESB — EXISTING ESB
- TEL — EXISTING TEL

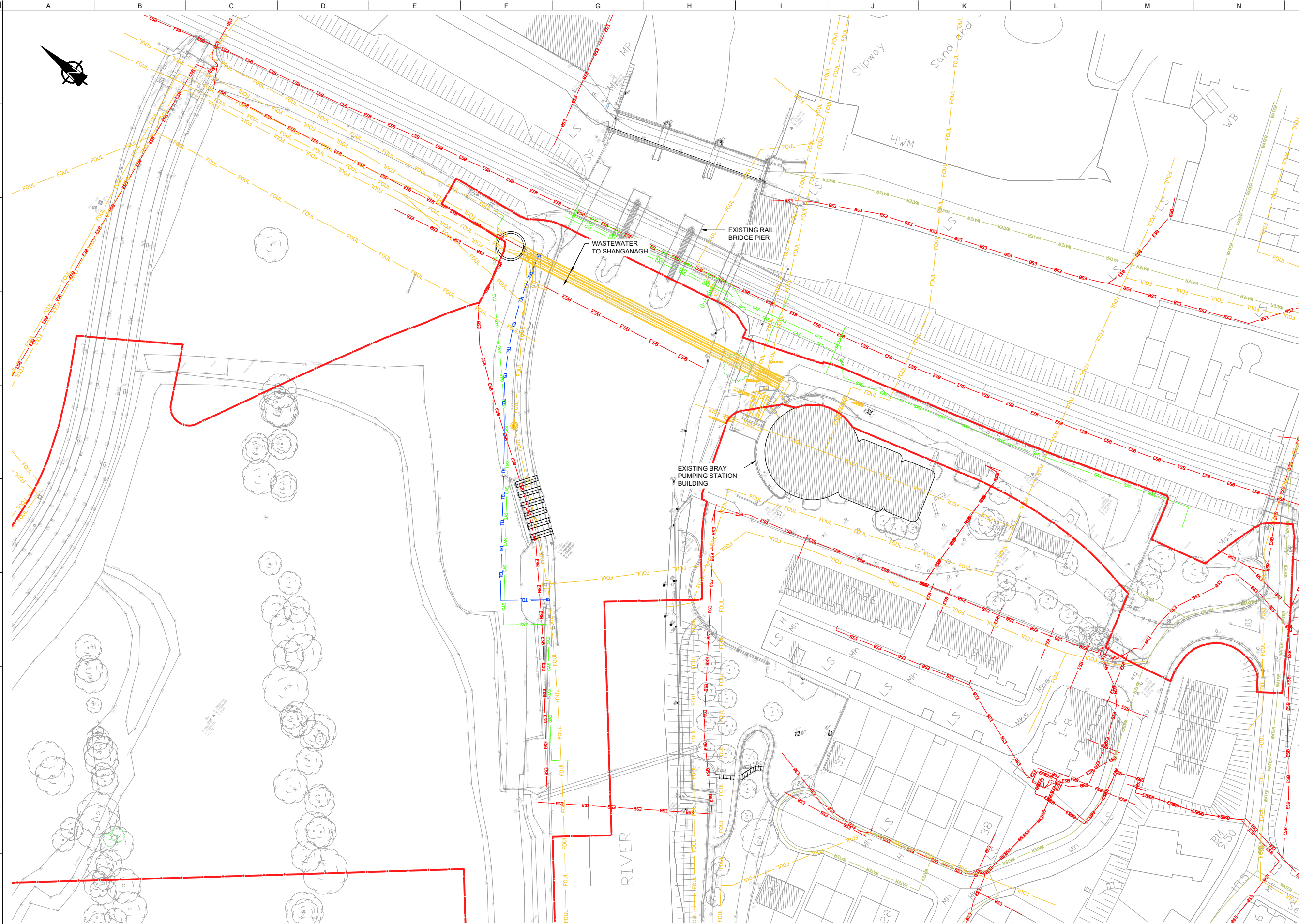
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LEGEND:

- RED LINE BOUNDARY



EXISTING UTILITY PLAN
SCALE 1:500

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No.	Date	Amendment / Issue	App
P04	09/07/21	ISSUED FOR PART 8 APPLICATION (S4)	MS
P03	29/01/21	ISSUED FOR REVIEW AND COMMENT (S3)	MS
P02	13/07/20	ISSUED FOR REVIEW AND COMMENT	MS

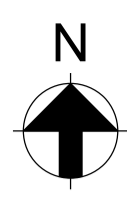
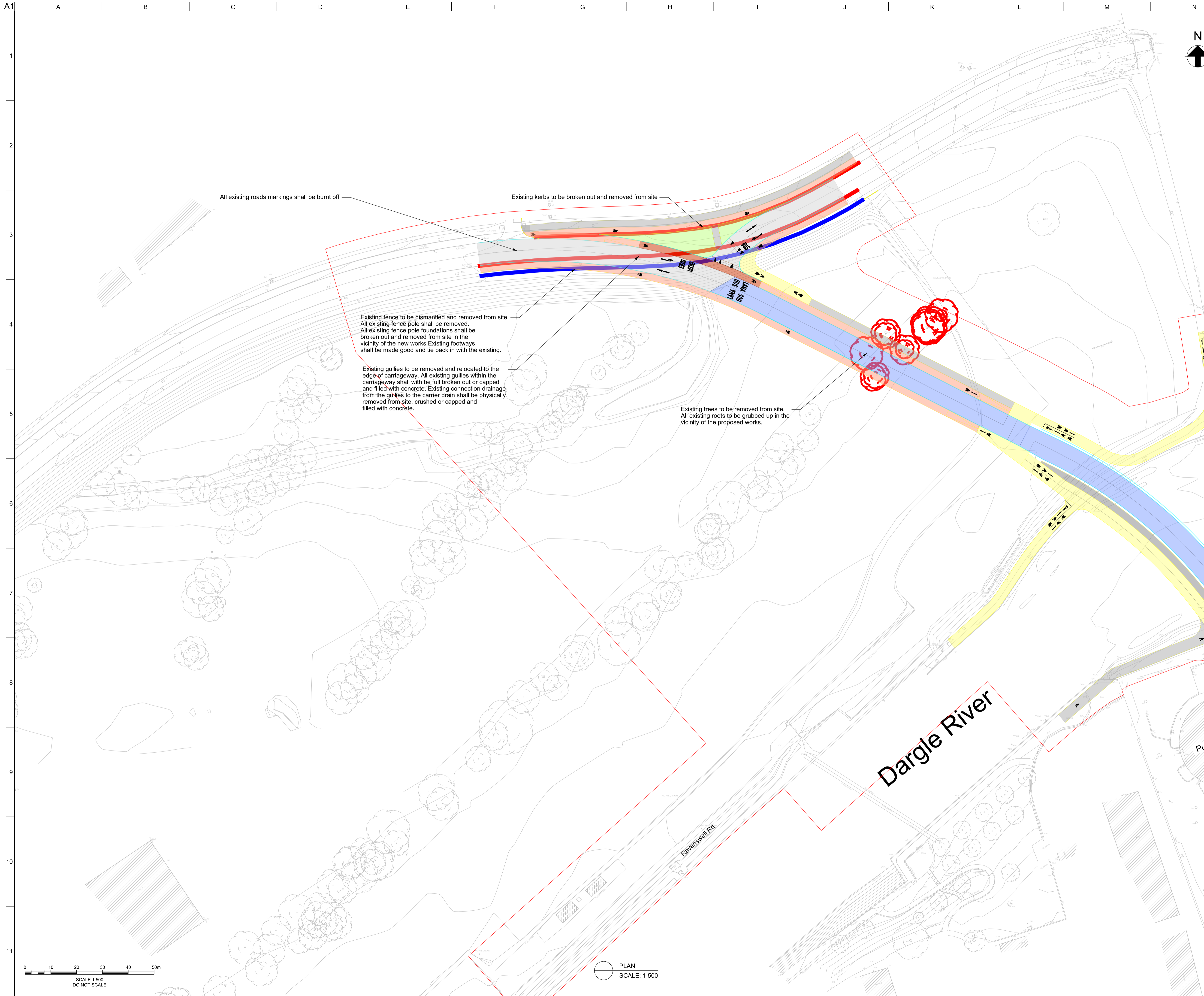
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Drawn: PD	Project: BRAY SUSTAINABLE TRANSPORT BRIDGE
Checked: AR	Title: EXISTING UTILITY LAYOUT SHEET 1
Approved: MS	
Date: 20.08.19	
Scale: AS SHOWN @ A1	
Status: S4	
Job No. 268095	Drg. No. RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9025
	Rev. P04

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Key:
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 This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9031.

- LEGEND:**
- BUS LANE
 - CYCLE TRACK
 - FOOTPATH
 - SHARED AREA
 - CARRIAGEWAY
 - GRASS AREA / VERGE
- LEGEND:**
- TREES TO BE REMOVED
 - STRUCTURE TO BE DEMOLISHED
 - SCULPTURE TO BE DEMOLISHED
 - SITE BOUNDARY LINE
 - FENCE TO BE RELOCATED
 - KERB TO BE REMOVED
 - RED LINE BOUNDARY

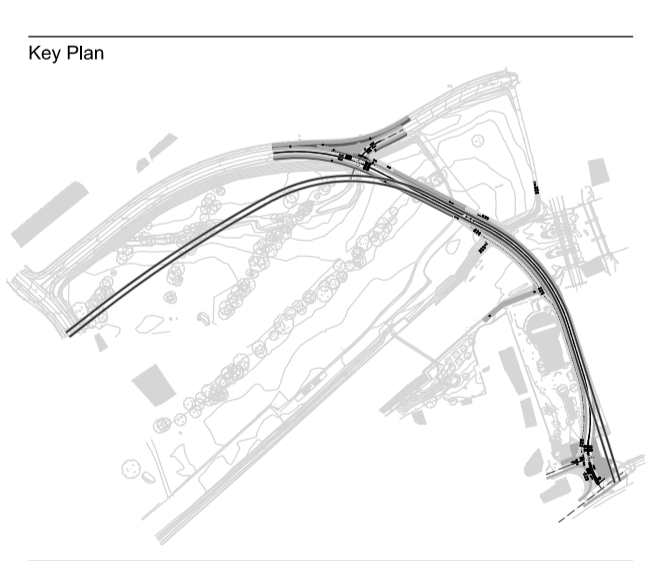
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Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Site Clearance Highway Sheet 1 out of 2

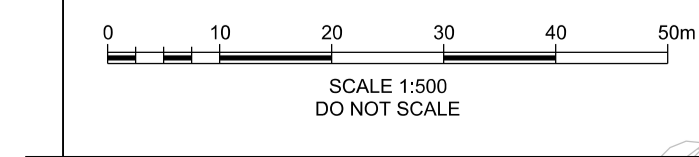
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Role

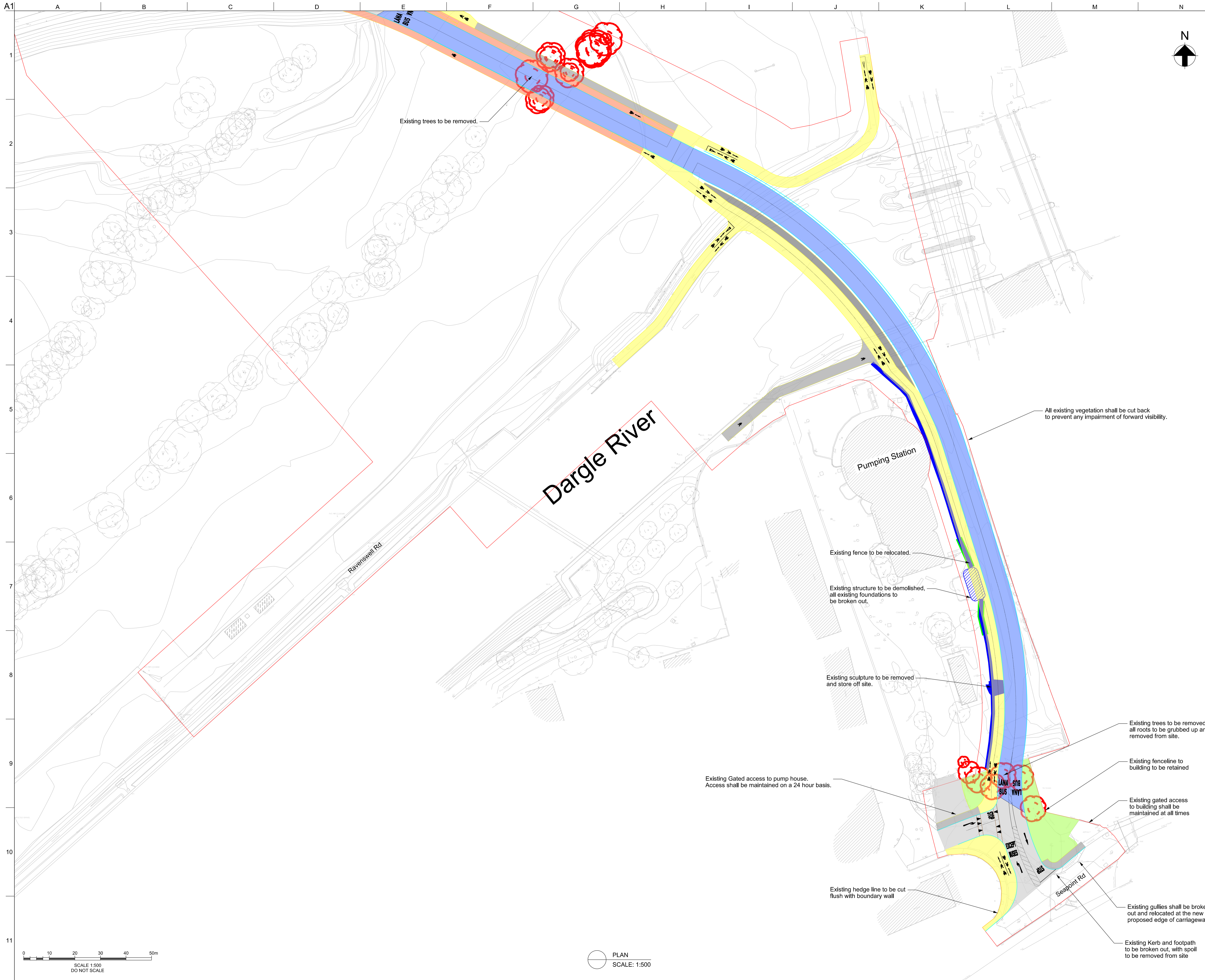
Suitability: S4

Arup Job No: **268095-00** Rev: **P03**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9030**



PLAN SCALE: 1:500



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LEGEND:

	BUS LANE
	CYCLE TRACK
	FOOTPATH
	SHARED AREA
	CARRIAGEWAY
	GRASS AREA / VERGE

LEGEND:

	TREES TO BE REMOVED
	STRUCTURE TO BE DEMOLISHED
	SCULPTURE TO BE DEMOLISHED
	SITE BOUNDARY LINE
	FENCE TO BE RELOCATED
	KERB TO BE REMOVED
	RED LINE BOUNDARY

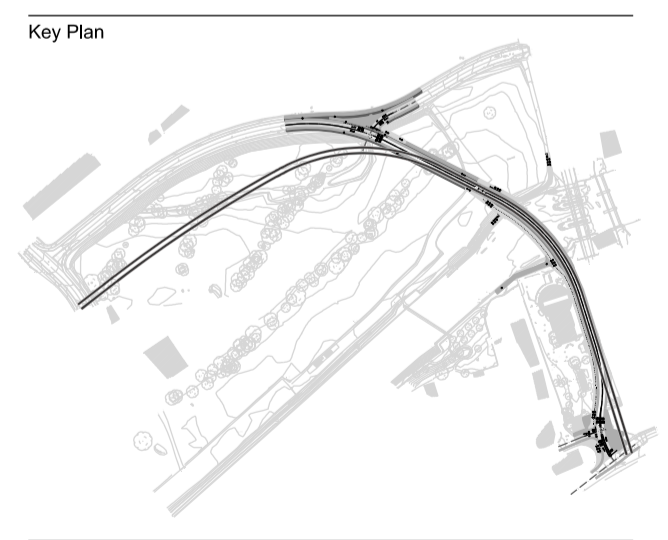
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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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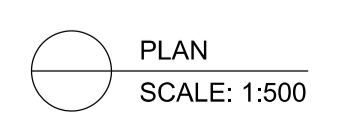
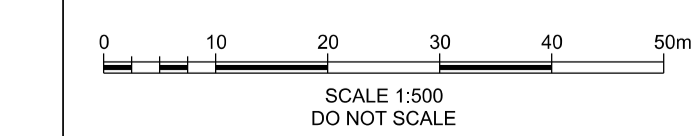
Client
WICKLOW COUNTY COUNCIL

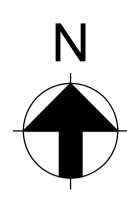
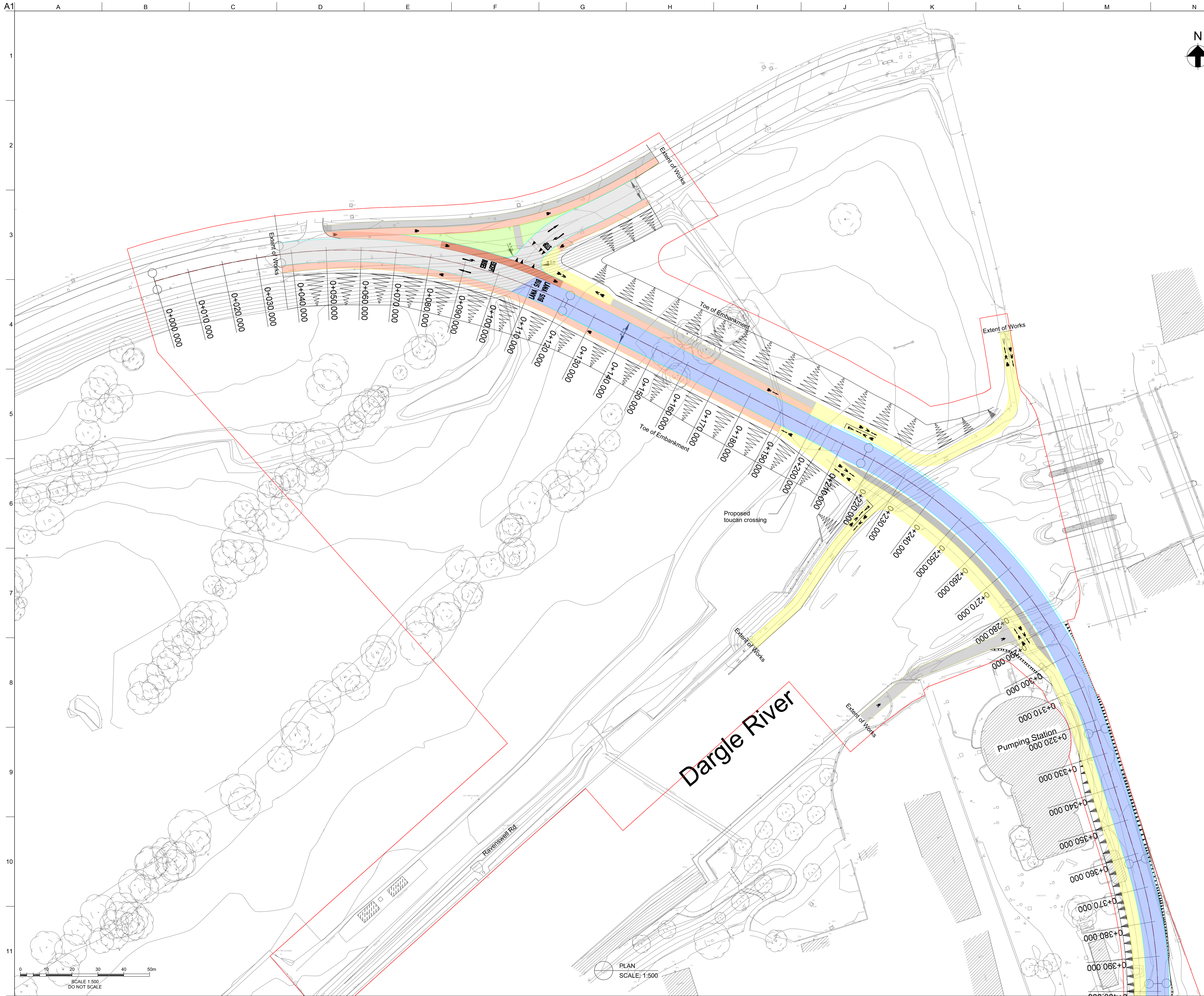
Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Site Clearance Sheet 2 out of 2

Scale at A1	1:500
Role	
Suitability	S4
Arup Job No	268095-00
Name	RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9031
Rev	P03





Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

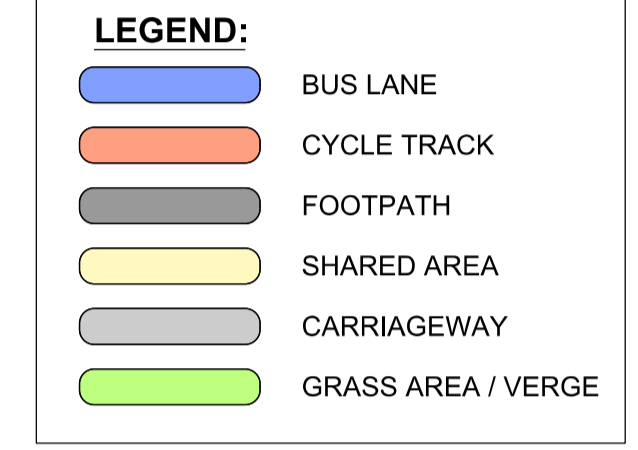
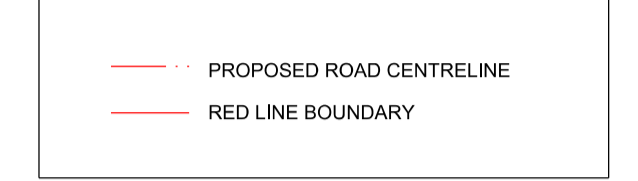
This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9041.

For details of proposed vertical geometry please refer to drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9060, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9061, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9062.

For details of proposed carriageway cross sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9090, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9091, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9092.



P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

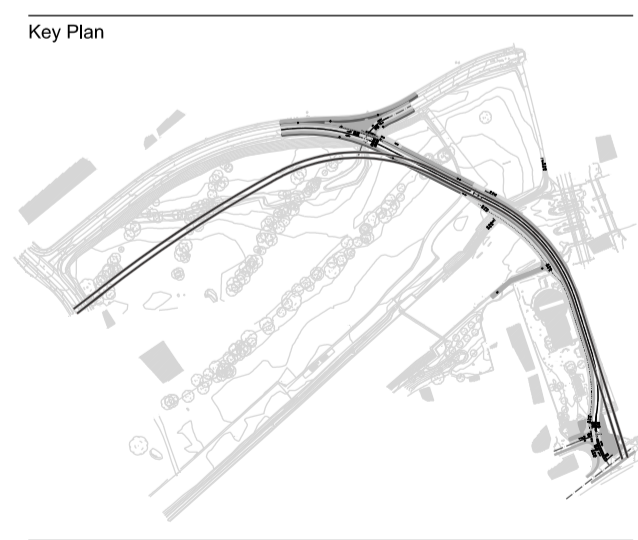
Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
General Arrangement Drawing Plan Highway Sheet 1 out of 2

Scale at A1: 1:500

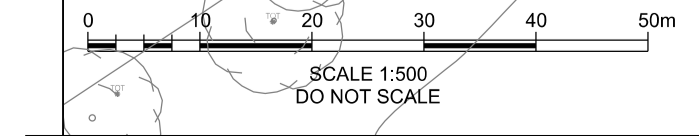
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Suitability: S4

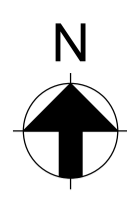
Arup Job No: **268095-00**

Rev: **P03**

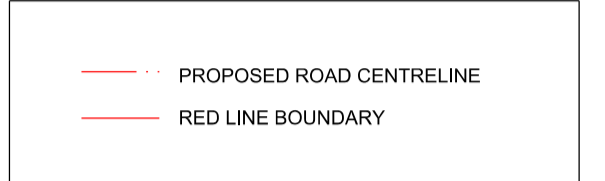
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PLAN SCALE: 1:500



Key:
 All road and land ownership boundaries are verified through Legal and Land searched by the Client.
 This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020
 Arup shall not be liable for any inaccuracies or deficiencies.
 This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9040.
 For details of proposed vertical geometry please refer to drawing
 RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9060,
 RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9061,
 RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9062.
 For details of proposed carriageway cross sections please refer to drawings
 RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9090,
 RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9091,
 RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9092.



- LEGEND:**
- BUS LANE
 - CYCLE TRACK
 - FOOTPATH
 - SHARED AREA
 - CARRIAGEWAY
 - GRASS AREA / VERGE

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

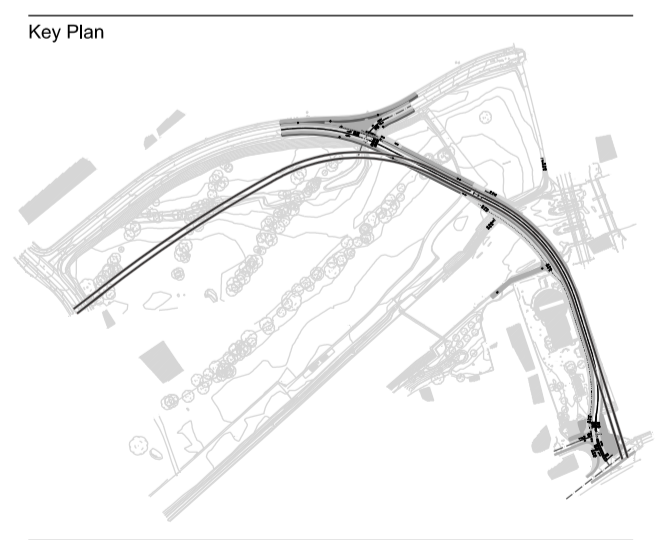
Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
General Arrangement Drawing Plan Highway Sheet 2 out of 2

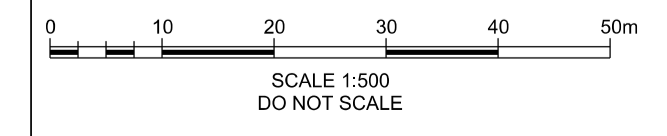
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Role

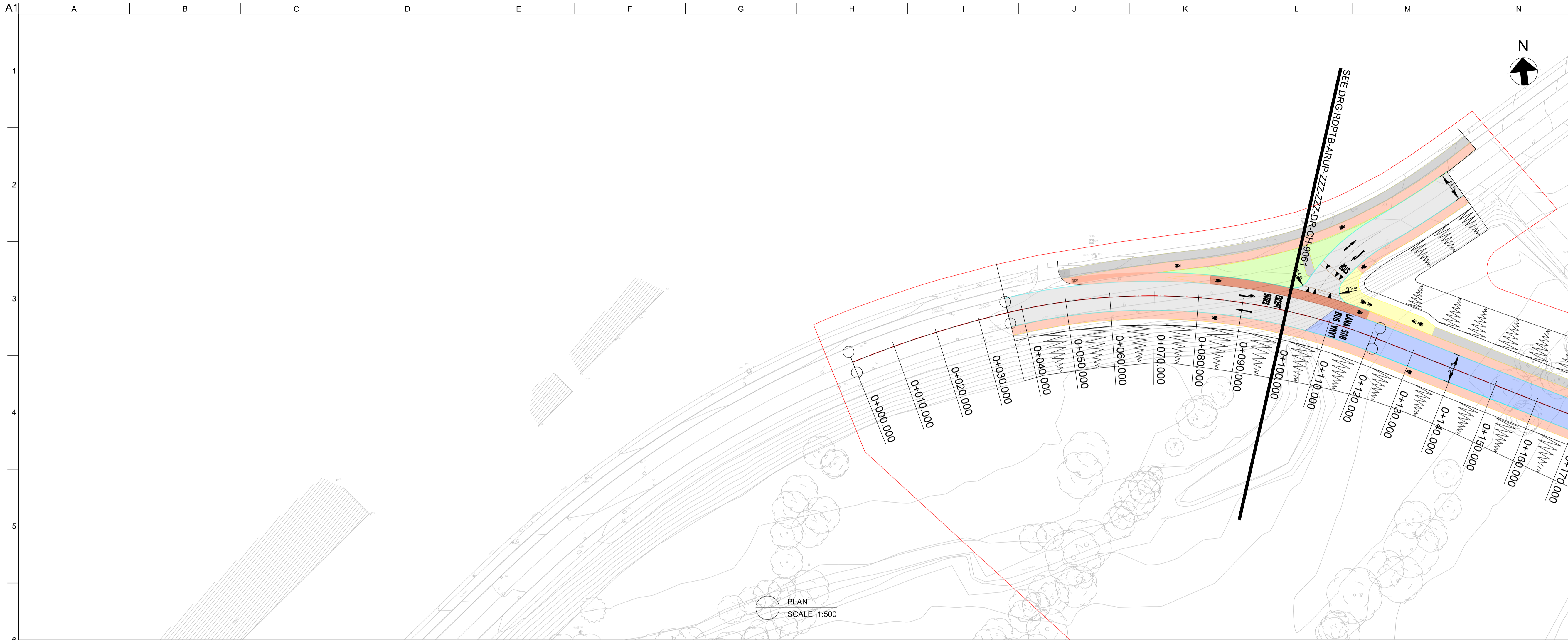
Suitability S4

Arup Job No **268095-00** Rev **P03**

Name
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9041



PLAN
 SCALE: 1:500



Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9061, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9062.

For details of proposed general arrangement plan please refer to drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9040, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9041.

For details of proposed carriageway cross sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9090, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9091, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9092.

---	PROPOSED ROAD CENTRELINE
---	EXISTING GROUND LEVEL
---	RED LINE BOUNDARY
---	HAND OF CURVE
⊗	DUMBELL
C	GRADE
L	LENGTH
PVC	START OF CURVE
PVI	INTERSECTION OF CURVE
PVT	END OF CURVE
R	RADIUS
STR	STRAIGHT
TL	TRANSITION LENGTH

---	LEGEND:
---	BUS LANE
---	CYCLE TRACK
---	FOOTPATH
---	SHARED AREA
---	CARRIAGEWAY
---	GRASS AREA / VERGE

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

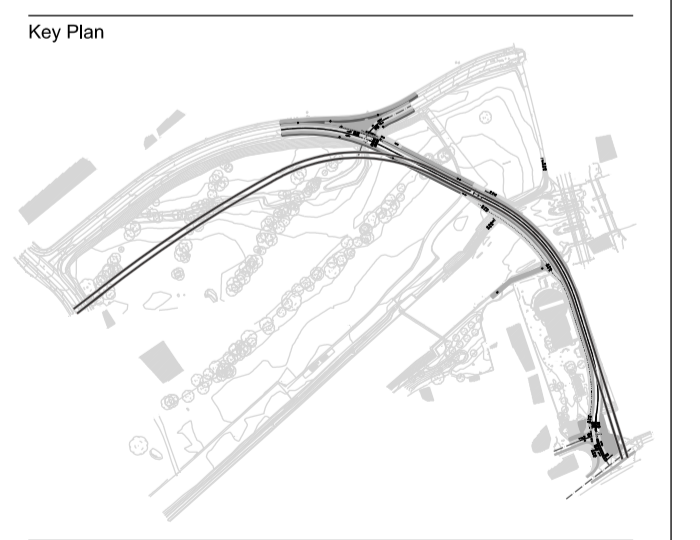
Rev	Date	By	Chkd	Appd
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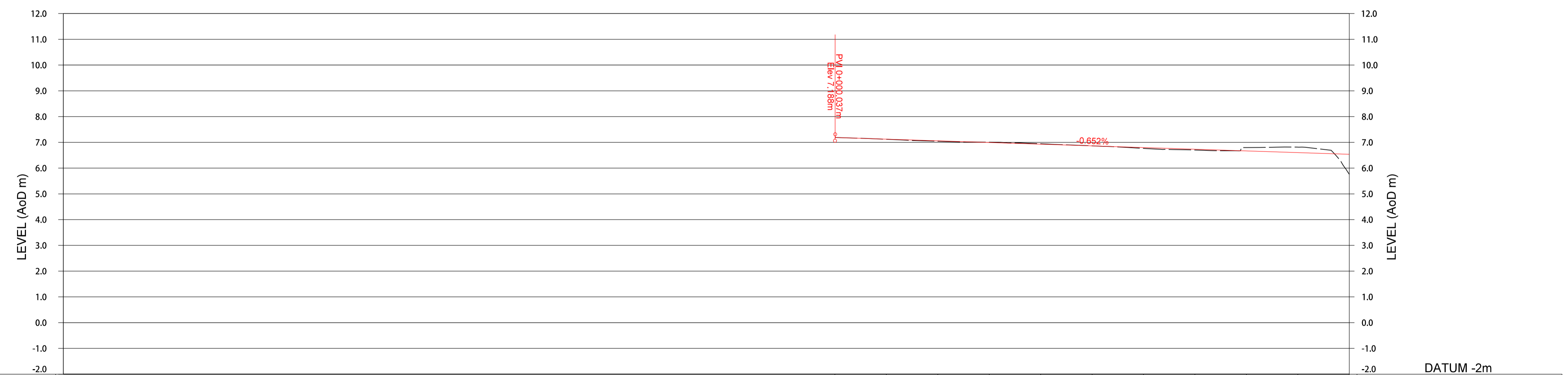
Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Plan and Profile Highway CH: 0+000 to CH: 0+100 Sheet 1 out of 3

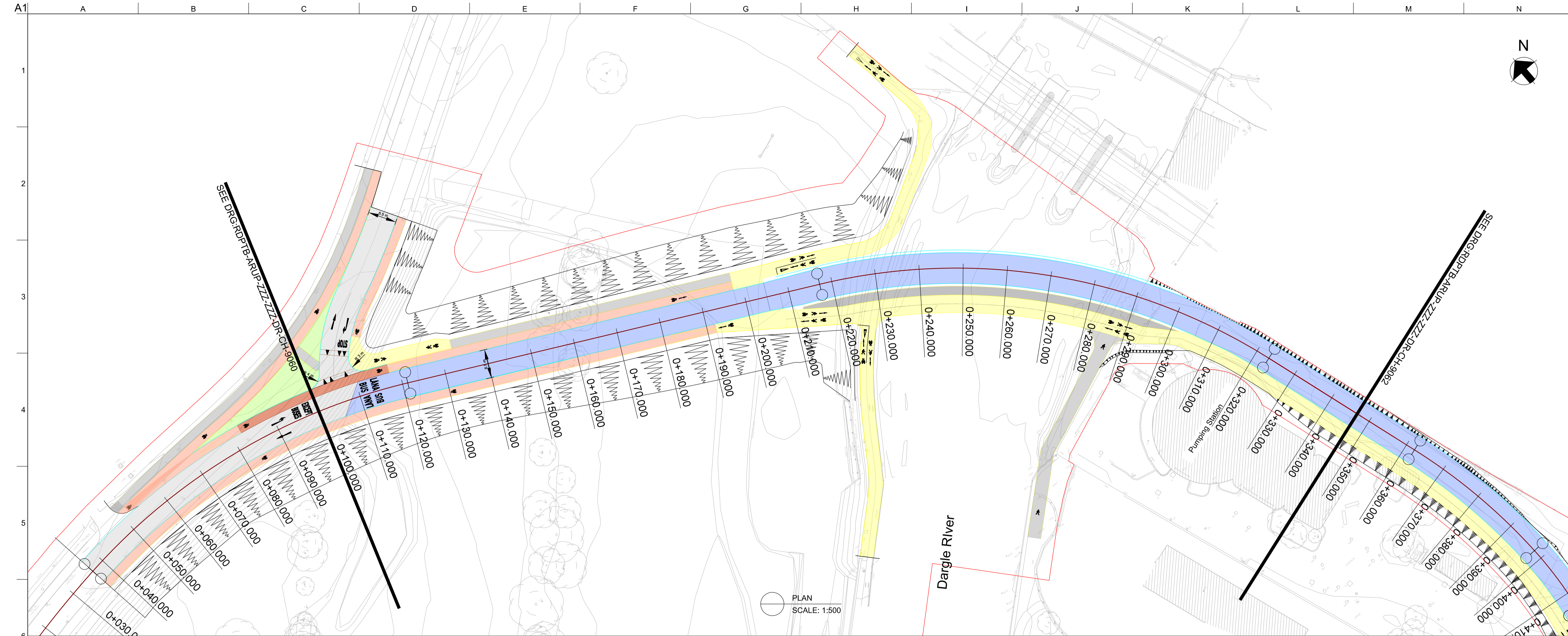
Scale at A1
1:500

Role	
Suitability	S4
Arup Job No	268095-00
Name	RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9060
Rev	P03



CHAINAGE (m)	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100
GROUND LEVEL (mATD)	7.188	7.119	7.045	7.006	6.945	6.884	6.797	6.702	6.798	6.814	6.801
PROPOSED ROAD LEVEL (mATD)		7.123	7.058	6.992	6.927	6.862	6.797	6.732	6.667	6.601	6.536
VERTICAL ALIGNMENT	L=164.677m G=-0.652%										
HORIZONTAL ALIGNMENT	R=244.911m L=36.710m								R=138.954m L=84.490m		

PROFILE
SCALE: H1:500 V1:100



Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9060, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9040, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9041.

For details of proposed general arrangement sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9090, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9091, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9092.

LEGEND:

- BUS LANE
- CYCLE TRACK
- FOOTPATH
- SHARED AREA
- CARRIAGEWAY
- GRASS AREA / VERGE

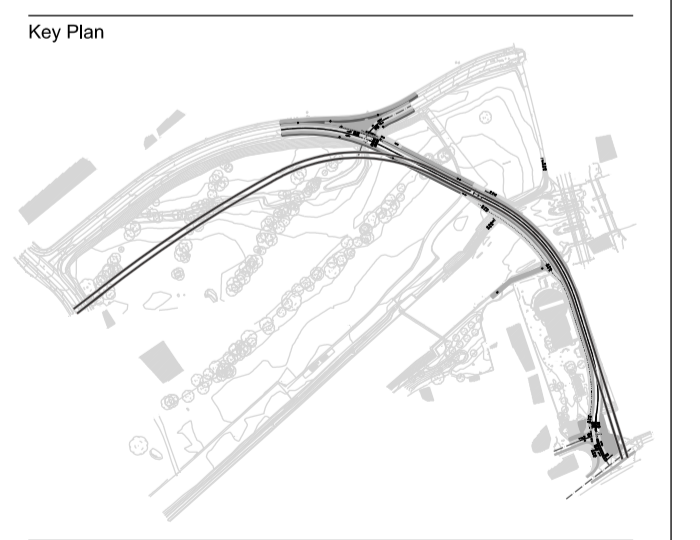
Rev	Date	By	Chkd	Appd
P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Plan and Profile Highway CH: 0+100 to 0+350 Sheet 2 out of 3

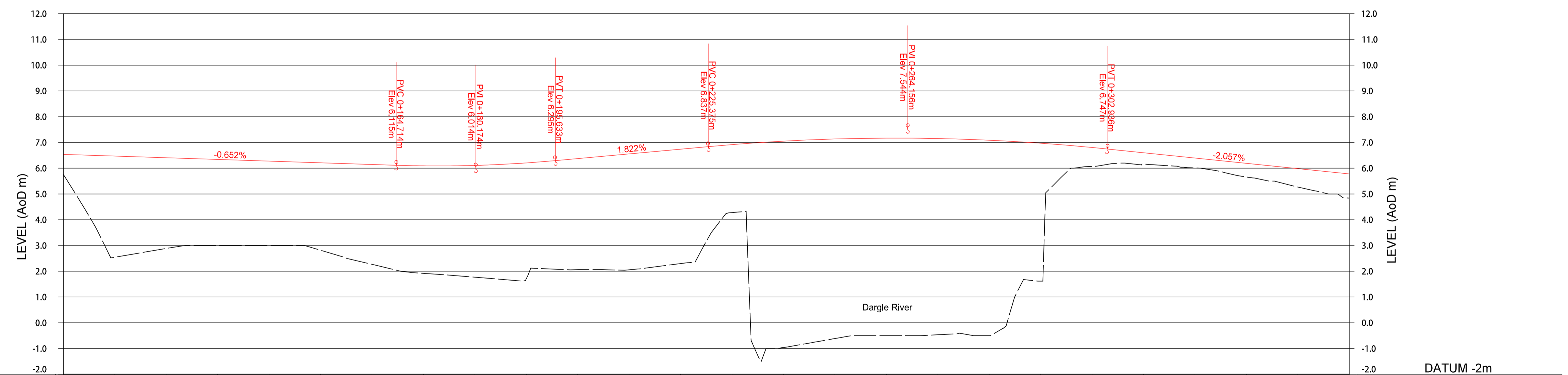
Scale at A1: 1:500

Role

Suitability: S4

Arup Job No: **268095-00** Rev: **P03**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9061**



CHAINAGE (m)	GROUND LEVEL (mATD)	PROPOSED ROAD LEVEL (mATD)	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
0+100	5.760	6.536	L=164.677m G=-0.652%	R=138.954m L=84.490m
0+110	2.546	6.471		
0+120	2.884	6.406	L=30.919m R=1250.000m	L=95.983m
0+130	3.000	6.341		
0+140	3.000	6.276		
0+150	2.818	6.210	L=29.742m G=1.822%	
0+160	2.270	6.145		
0+170	1.920	6.091	L=77.562m R=2000.000m	
0+180	1.770	6.108		
0+190	1.708	6.206	L=132.993m L=105.954m	
0+200	2.063	6.375		
0+210	2.065	6.557	L=96.691m G=-2.057%	L=39.000m
0+220	2.297	6.739		
0+230	4.280	6.816		
0+240	-0.981	7.050		
0+250	-0.612	7.135		
0+260	-0.500	7.169		
0+270	-0.463	7.153		
0+280	-0.500	7.087		
0+290	-1.618	6.971		
0+300	6.072	6.805		
0+310	6.159	6.801		
0+320	6.010	6.396		
0+330	5.657	6.190		
0+340	5.289	5.984		
0+350	4.841	5.779		

PROFILE SCALE: H1:500 V1:100



Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

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Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9060, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9061.

For details of proposed general arrangement plan please refer to drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9040, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9041.

For details of proposed carriageway cross sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9090, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9091, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9092.

- LEGEND:**
- PROPOSED ROAD CENTRELINE
 - EXISTING GROUND LEVEL
 - RED LINE BOUNDARY
 - HAND OF CURVE
 - DUMBELL
 - C GRADE
 - L LENGTH
 - PVC START OF CURVE
 - PVI INTERSECTION OF CURVE
 - PVT END OF CURVE
 - R RADIUS
 - STR STRAIGHT
 - TL TRANSITION LENGTH

- LEGEND:**
- BUS LANE
 - CYCLE TRACK
 - FOOTPATH
 - SHARED AREA
 - CARRIAGEWAY
 - GRASS AREA / VERGE

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

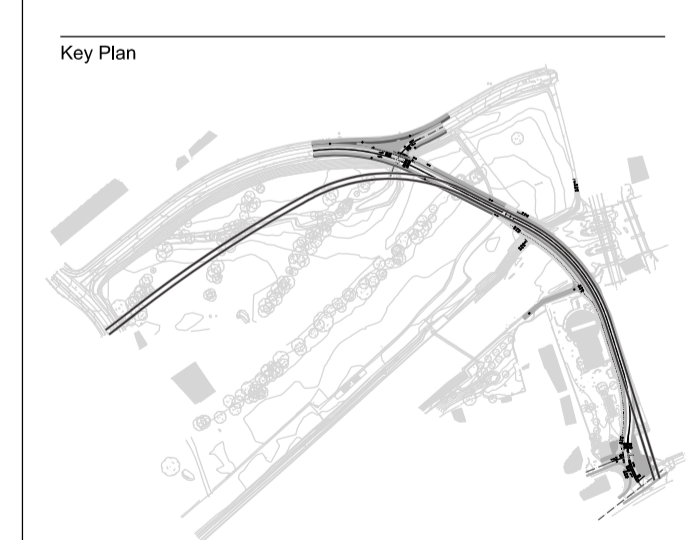
Rev	Date	By	Chkd	Appd
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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Plan and Profile Highway CH: 0+350 to 0+457.752 Sheet 3 out of 3

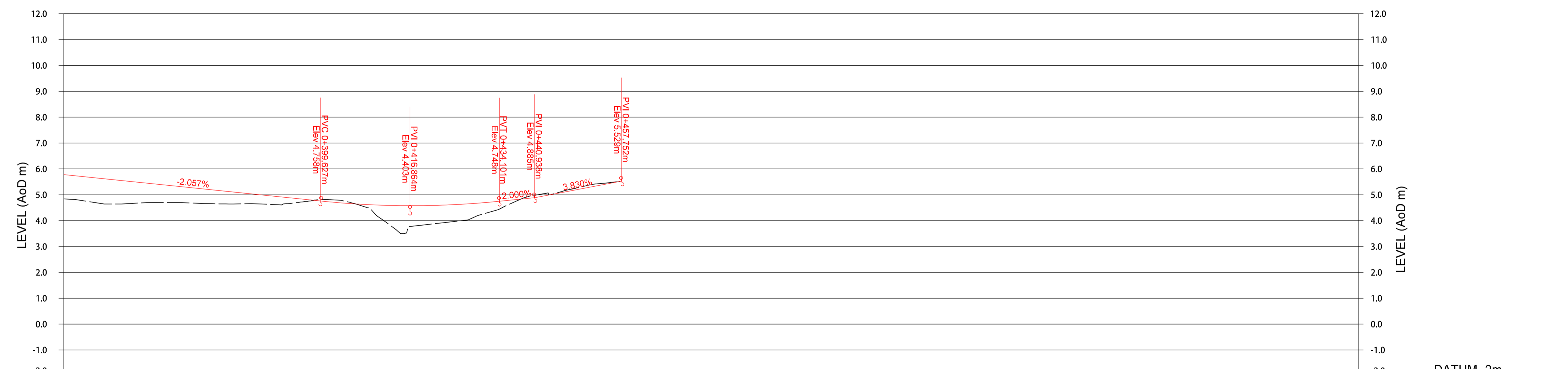
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Role

Suitability S4

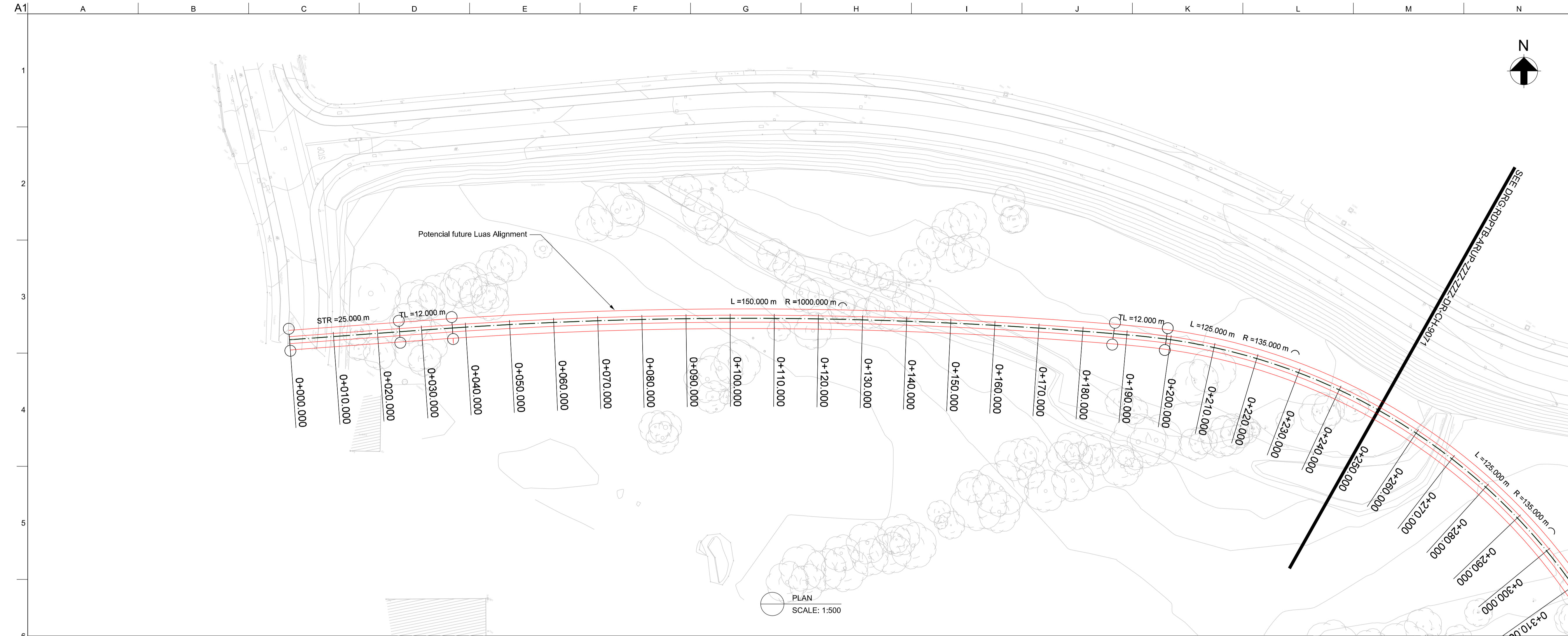
Arup Job No: **268095-00** Rev: **P03**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9062**



CHAINAGE (m)	0+350	0+360	0+370	0+380	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+460	0+470	0+480	0+490	0+500	0+510	0+520	0+530	0+540	0+550	0+560	0+570	0+580	0+590	0+600	CHAINAGE (m)	
GROUND LEVEL (mATD)	4.841	4.643	4.700	4.649	4.628	4.819	4.283	3.845	4.199	4.947	5.308	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	GROUND LEVEL (mATD)
PROPOSED ROAD LEVEL (mATD)	5.779	5.573	5.367	5.162	4.956	4.750	4.608	4.583	4.676	4.866	5.232	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	4.866	PROPOSED ROAD LEVEL (mATD)
VERTICAL ALIGNMENT	L=96.691m G=-2.057%		L=35.611m R=130.000m		L=16.813m R=86.844m		L=34.474m R=850.000m		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		L=16.814m G=3.830%		VERTICAL ALIGNMENT	
HORIZONTAL ALIGNMENT	L=39.000m		R=130.000m L=35.611m		R=86.844m L=16.813m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		R=52.450m L=43.339m		HORIZONTAL ALIGNMENT	

PROFILE
SCALE: H1:500 V1:100



Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

This drawing is based upon topographical survey information undertaken by Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9071, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9100.

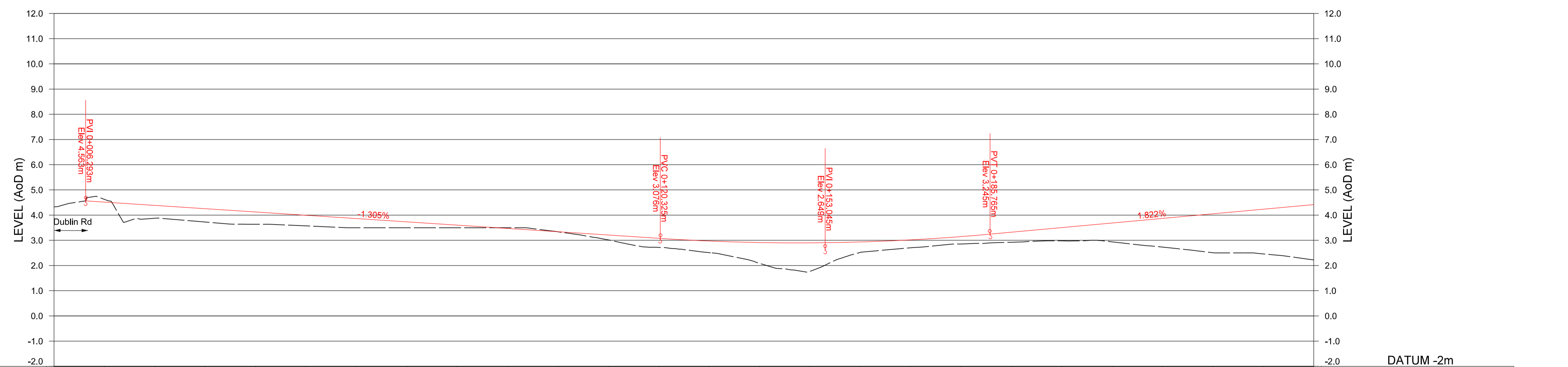
For details of proposed cross sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9100.

Proposed Luas design is shown indicative only to provide proof of concept. Final details of any proposed Luas crossings of Dublin Rd shall be made in collaboration with all the TII and all statutory authorities.

---	POTENTIAL TRACK CENTRELINE (PLAN)
---	EXISTING GROUND LEVEL
---	POTENTIAL LUAS TRACKS
⤴	HAND OF CURVE
⊗	DUMBELL
C	GRADE
L	LENGTH
PVC	START OF CURVE
PVI	INTERSECTION OF CURVE
PVT	END OF CURVE
R	RADIUS
STR	STRAIGHT
TL	TRANSITION LENGTH

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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CHAINAGE (m)	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	CHAINAGE (m)
GROUND LEVEL (mATD)	4.325	4.624	3.873	3.725	3.635	3.572	3.500	3.500	3.500	3.500	3.340	3.018	2.717	2.510	2.087	1.765	2.521	2.703	2.854	2.920	2.979	2.998	2.730	2.507	2.458	2.220	GROUND LEVEL (mATD)
PROPOSED RAIL LEVEL (mATD)		4.515	4.385	4.254	4.124	3.983	3.863	3.732	3.602	3.471	3.341	3.080	2.892	2.672	2.911	2.899	2.834	3.017	3.148	3.322	3.504	3.686	4.051	4.233	4.415	PROPOSED RAIL LEVEL (mATD)	
VERTICAL ALIGNMENT	L=114.032m G=-1.305% L=65.440m R=2092.908m L=167.432m G=1.822%																										
HORIZONTAL ALIGNMENT	L=25.000m		TL=12.000m		R=1000.000m L=150.000m										TL=12.000m		R=135.000m L=125.000m										

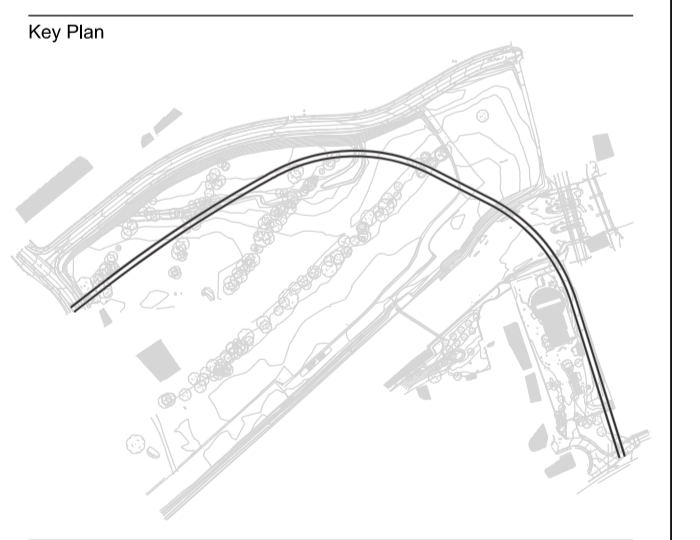
PROFILE SCALE: H1:500 V1:100

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Plan and Profile Rail CH: 0+000 to 0+250 Sheet 1 out of 3

Scale at A1: 1:500

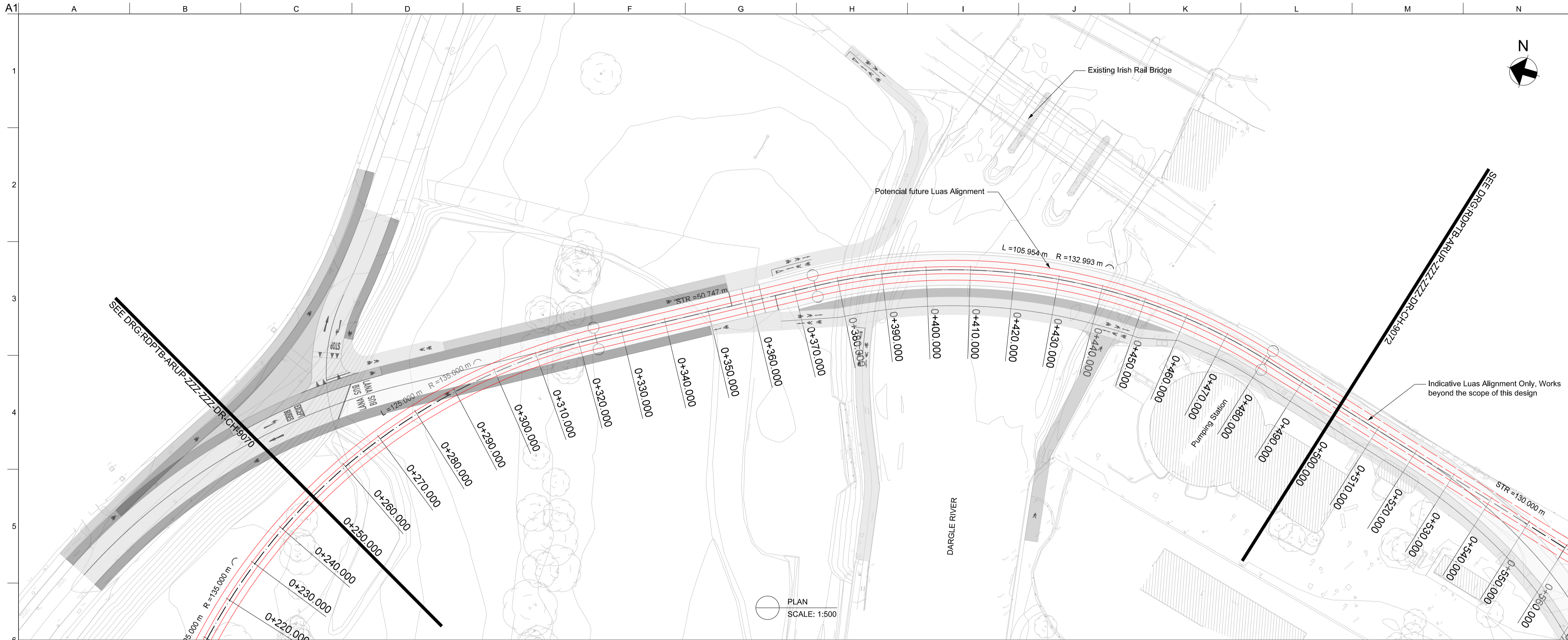
Role

Suitability: S4

Arup Job No: **268095-00**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9070**

Rev: **P03**



Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9070, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9072.

For details of proposed cross sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9100.

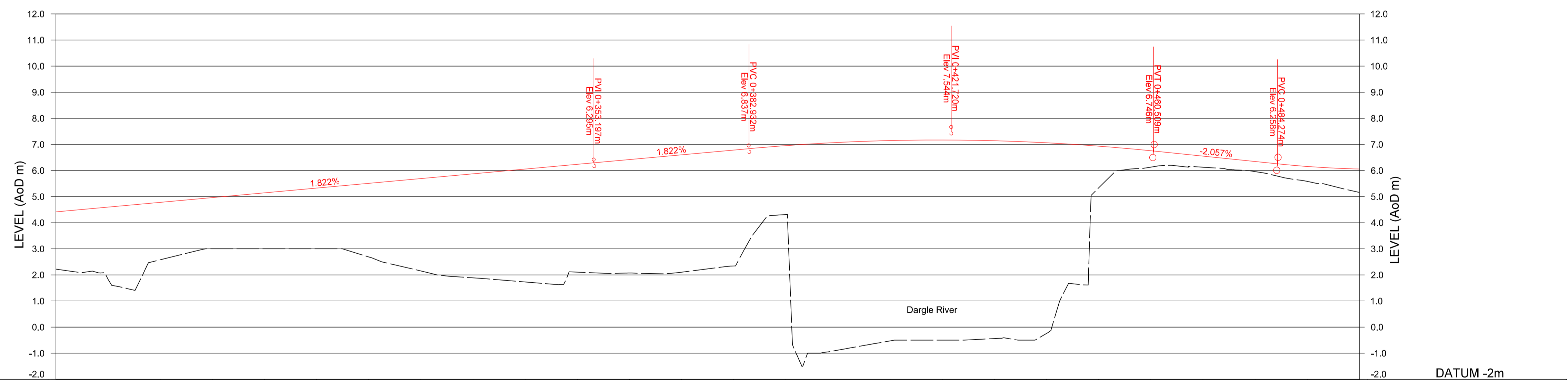
Proposed Luas design is shown indicative only to provide proof of concept. Final details of any proposed Luas crossing of Dublin Rd shall be made in collaboration with all the TII and all statutory.

Indicative Luas Alignment Only, Works beyond the scope of this design.
CH 0+490.000m to CH0+600.000m.

---	POTENTIAL TRACK CENTRELINE (PLAN)
---	EXISTING GROUND LEVEL
---	POTENTIAL LUAS TRACKS
⤵	HAND OF CURVE
⊕	DUMBELL
C	GRADE
L	LENGTH
PVC	START OF CURVE
PVI	INTERSECTION OF CURVE
PVT	END OF CURVE
R	RADIUS
STR	STRAIGHT
TL	TRANSITION LENGTH

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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CHAINAGE (m)	0+250	0+260	0+270	0+280	0+290	0+300	0+310	0+320	0+330	0+340	0+350	0+360	0+370	0+380	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+460	0+470	0+480	0+490	0+500	CHAINAGE (m)	
GROUND LEVEL (mATD)	2.220	1.832	2.578	3.000	3.144	3.326	2.887	2.152	1.887	1.731	2.107	2.073	2.103	2.343	4.313	-0.881	-0.528	-0.500	-0.439	-0.243	-5.335	-6.130	6.127	6.551	5.959	5.583	6.058	GROUND LEVEL (mATD)
PROPOSED RAIL LEVEL (mATD)	4.415	4.897	4.780	4.862	5.144	5.326	5.508	5.691	5.873	6.055	6.237	6.419	6.602	6.784	6.964	7.075	7.147	7.169	7.141	7.063	6.835	6.757	6.551	6.348	6.156	6.058	PROPOSED RAIL LEVEL (mATD)	
VERTICAL ALIGNMENT	L=167.432m G=1.822%															L=29.735m G=1.822%		L=77.576m R=2000.000m					L=23.766m G=-2.057%		L=43.649m R=1000.000m		VERTICAL ALIGNMENT	
HORIZONTAL ALIGNMENT	R=135.000m L=125.000m			L=50.747m						R=132.993m L=105.954m					L=130.000m				HORIZONTAL ALIGNMENT									

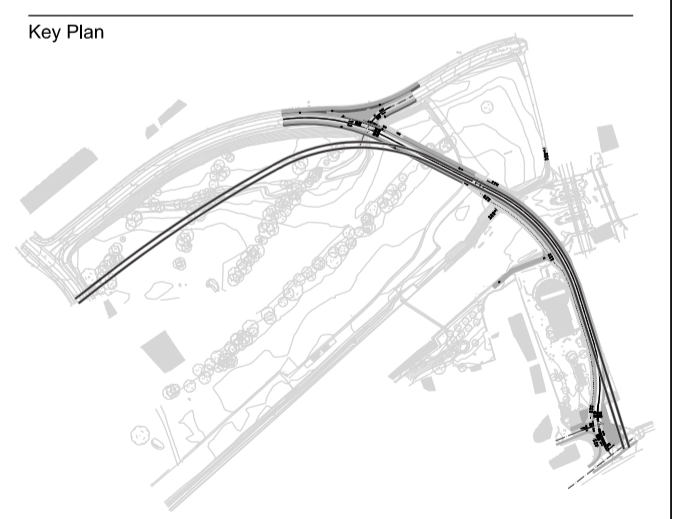
PROFILE
SCALE: H1:500 V1:100

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Client
WICKLOW COUNTY COUNCIL

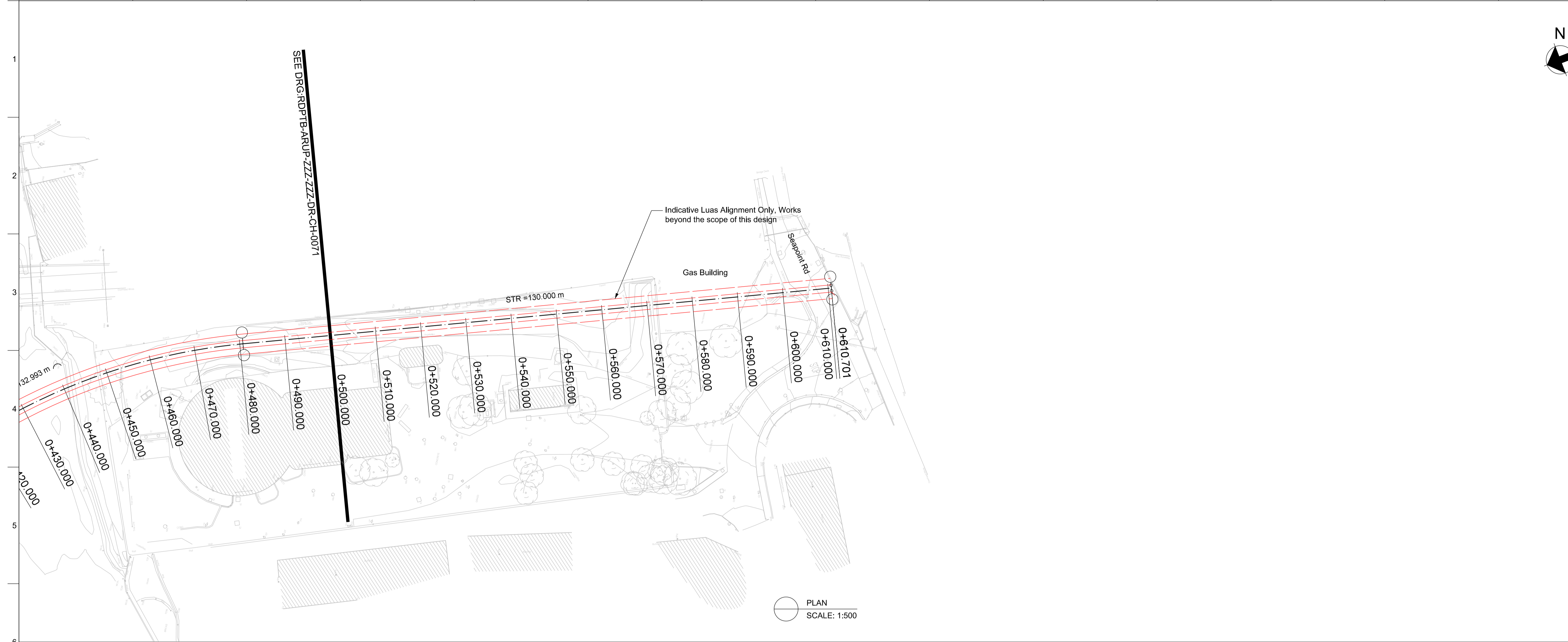
Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Plan and Profile Rail CH:0+250 to 0+500 Sheet 2 out of 3

Scale at A1: 1:500

Role		Rev	
Suitability	S4	268095-00	P03
Arup Job No	268095-00	Name	RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9071



Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

This drawing shall be read in conjunction with drawing RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9070, RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9071.

For details of proposed cross sections please refer to drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9100.

Proposed Luas design is shown indicative only to provide proof of concept. Final details of any proposed Luas crossing of Dublin Rd shall be made in collaboration with all the TII and all statutory.

Indicative Luas Alignment Only, Works beyond the scope of this design.
CH 0+490.000m to CH0+600.000m.

---	POTENTIAL TRACK CENTRELINE (PLAN)
---	EXISTING GROUND LEVEL
---	POTENTIAL LUAS TRACKS
⌒	HAND OF CURVE
⌘	DUMBBELL
C	GRADE
L	LENGTH
PVC	START OF CURVE
PVI	INTERSECTION OF CURVE
PVT	END OF CURVE
R	RADIUS
STR	STRAIGHT
TL	TRANSITION LENGTH

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

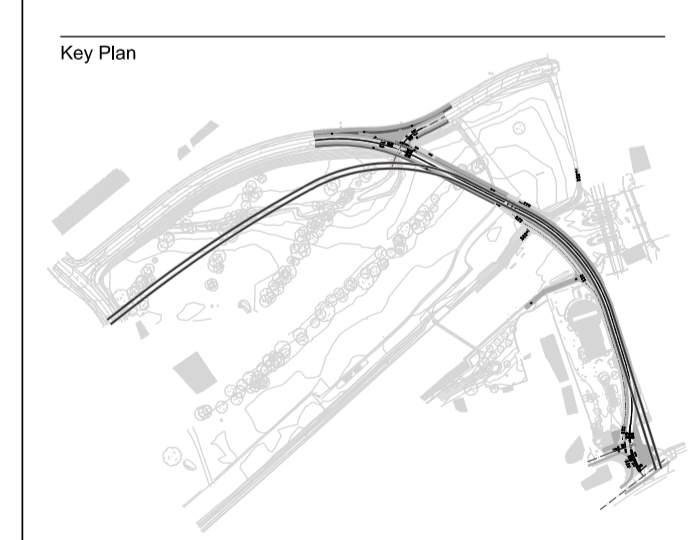
Rev	Date	By	Chkd	Appd
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Client
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Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Plan and Profile Rail CH:0+500 to 0+610.701 Sheet 3 out of 3

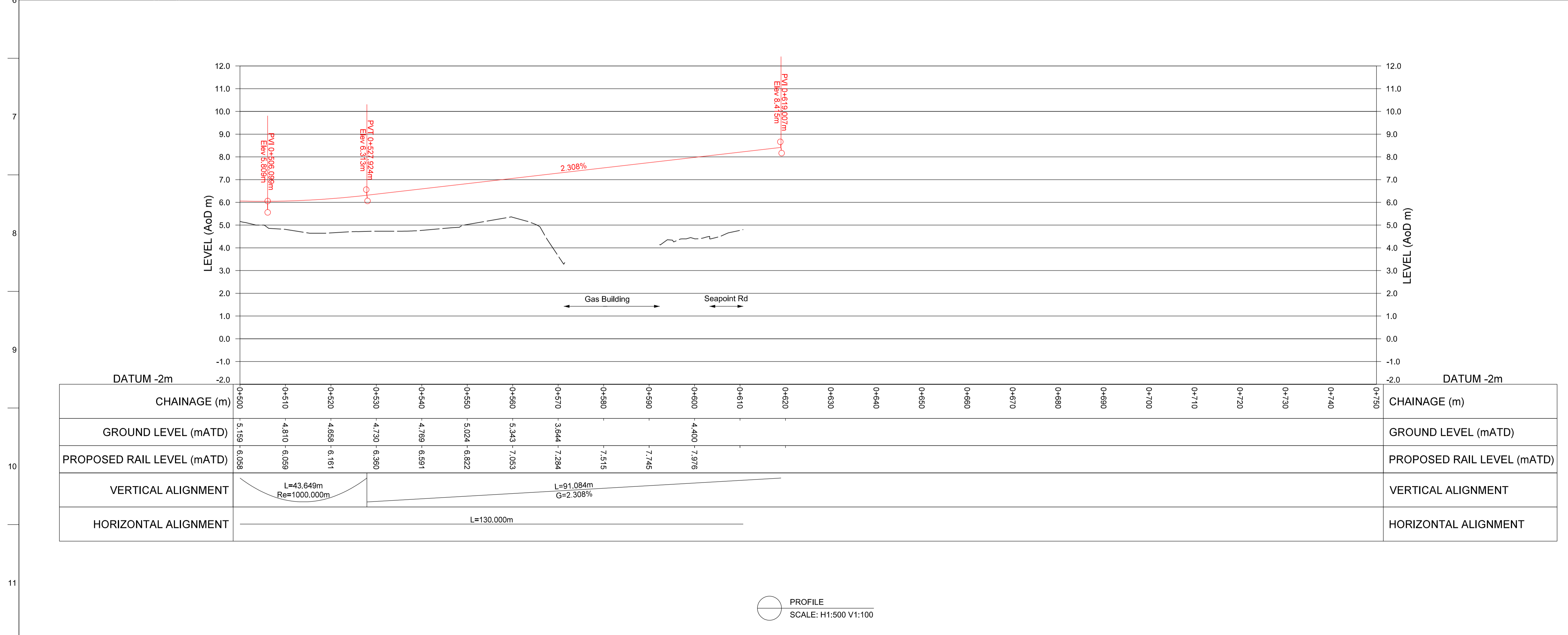
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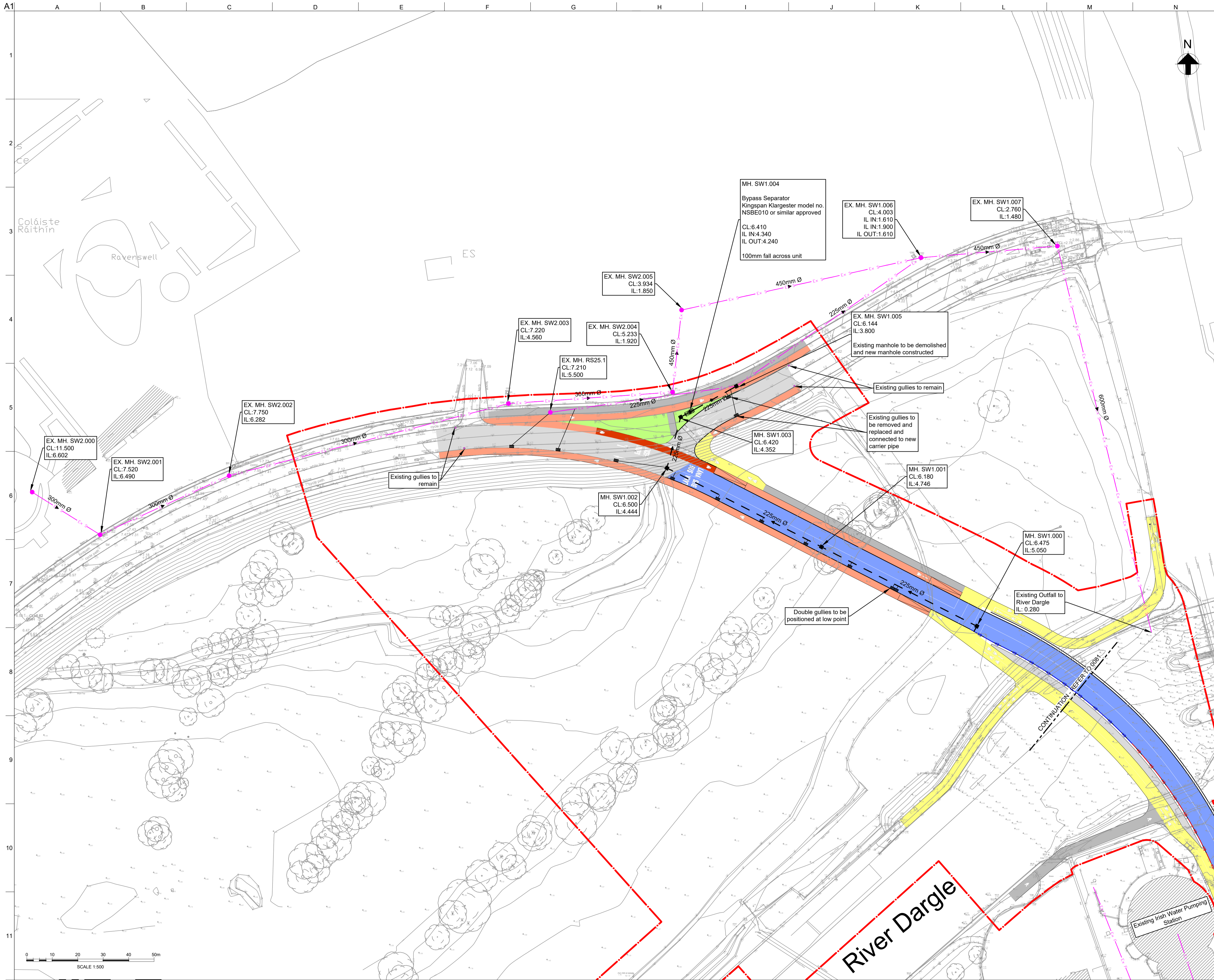
Role

Suitability S4

Arup Job No **268095-00** Rev **P03**

Name
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9072





- Notes:**
- This drawing is to be used only for the design element(s) identified in the title box. All other information shown on the drawing is to be considered indicative only.
 - This drawing is to be read in conjunction with all other drawings and specifications. All levels are in meters and refer to Mean O.D.
 - Survey grid and all coordinates are in Irish Transverse Mercator.
 - All existing services shown are indicative only. Exact locations are to be confirmed onsite by the contractor prior to the commencement of works.
 - Location of existing drainage network is based on existing services information received from Wicklow County Council. Exact location of existing drainage to be confirmed onsite by the contractor prior to the commencement of works.
 - All surface water drainage elements are to be constructed in accordance with the Greater Dublin Regional Code of Practice for Drainage Works.

- Legend**
- Proposed surface water
 - Proposed surface water manhole
 - Proposed gully
 - Proposed kerb drain
 - Proposed petrol interceptor
 - Existing surface water sewer
 - Existing surface water sewer manhole
 - Existing combined sewer
 - Existing combined sewer manhole
 - Planning application boundary

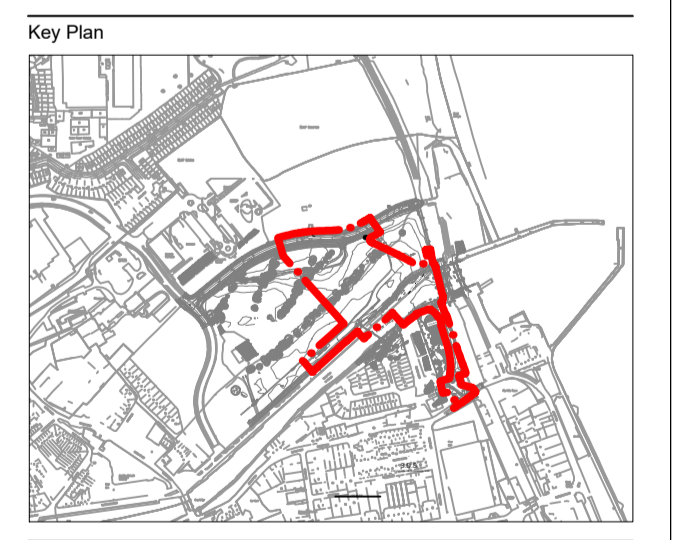
P02	29/01/21	TB	SW	CG
P01	21/07/20	TD	TB	SW

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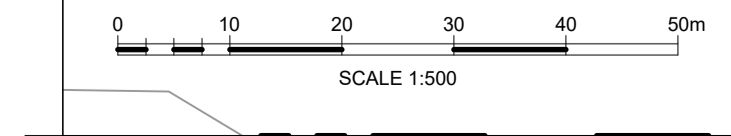
Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Proposed Drainage Plan - Highway - Sheet 1 of 2

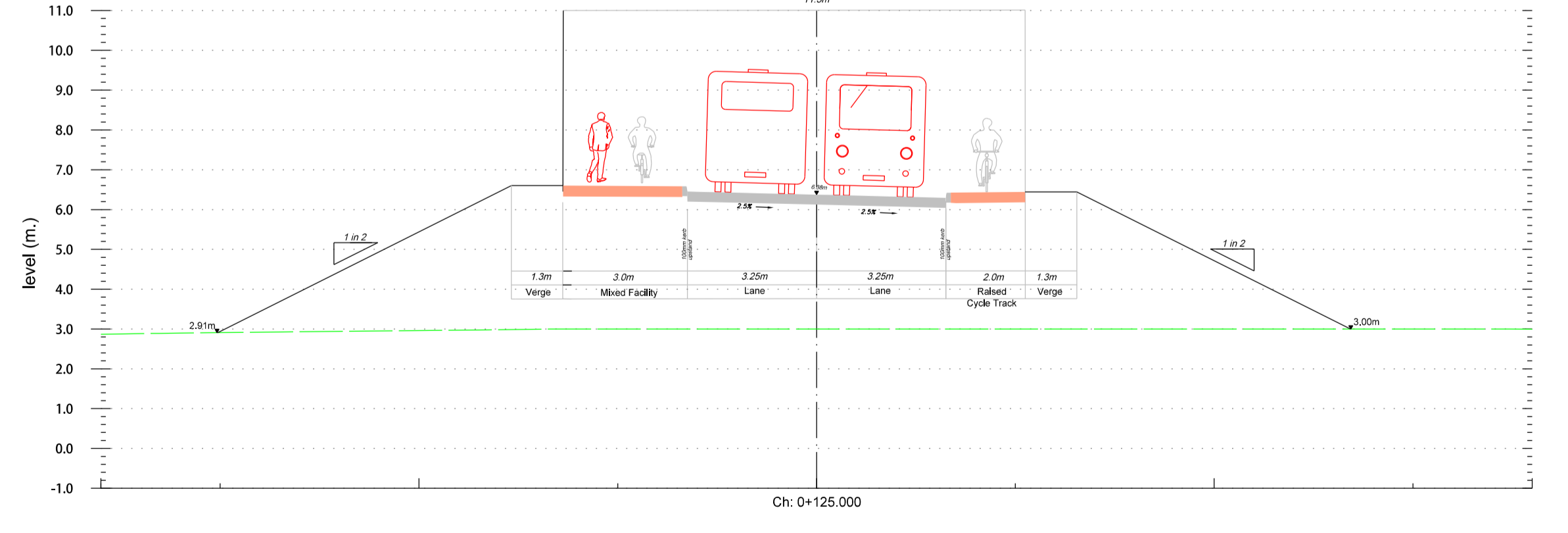
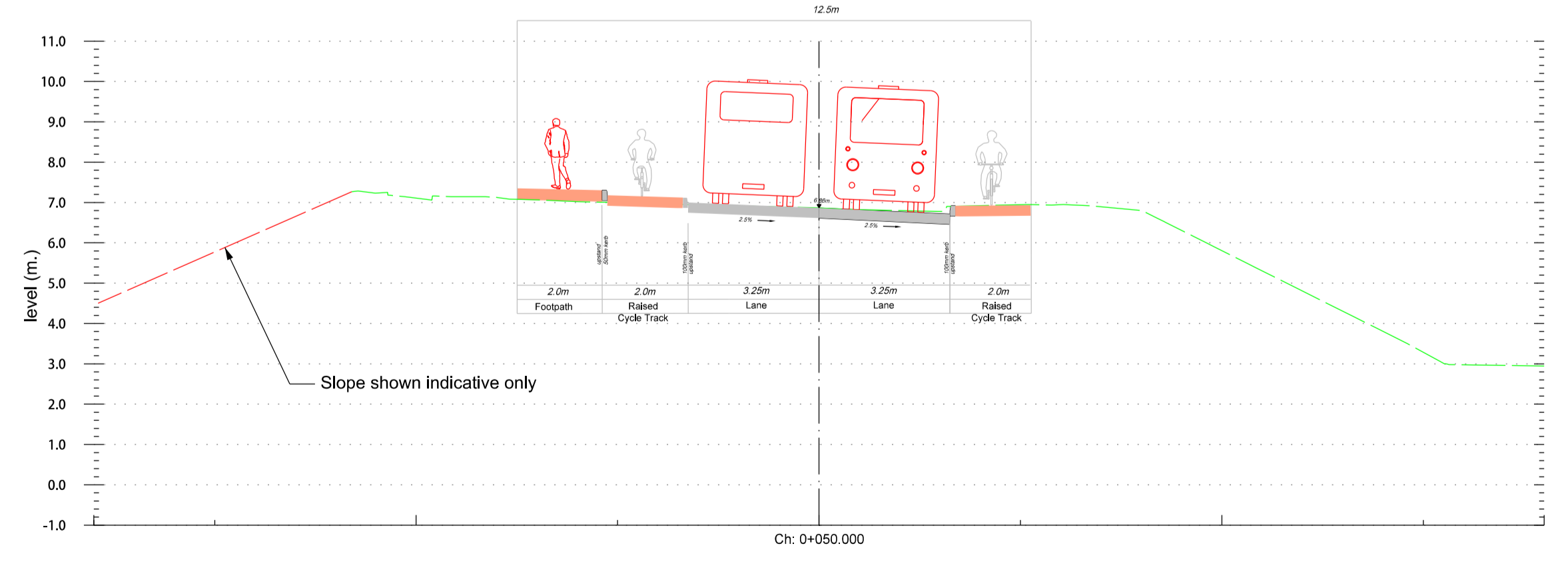
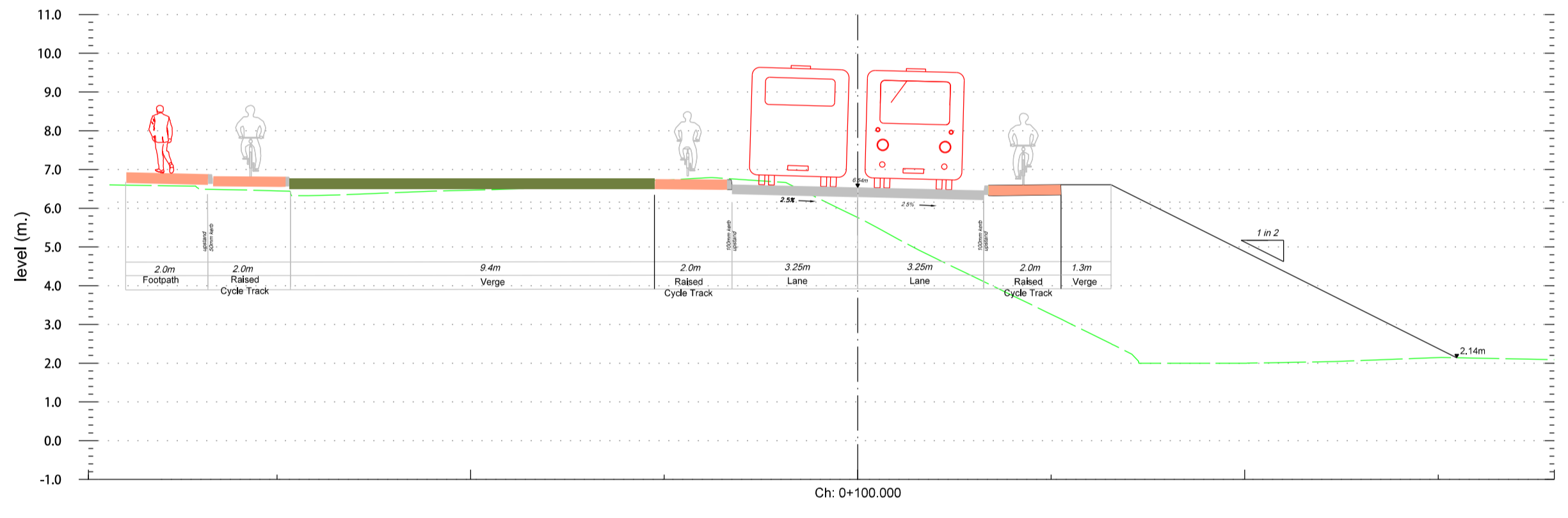
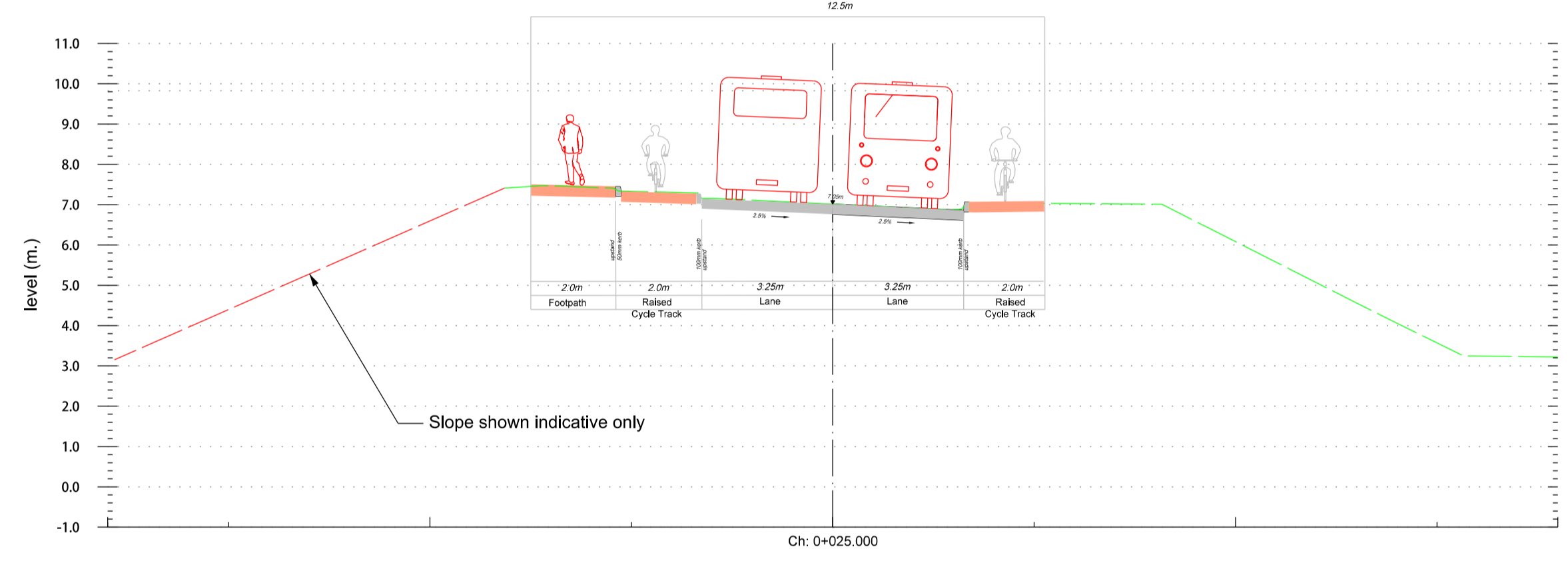
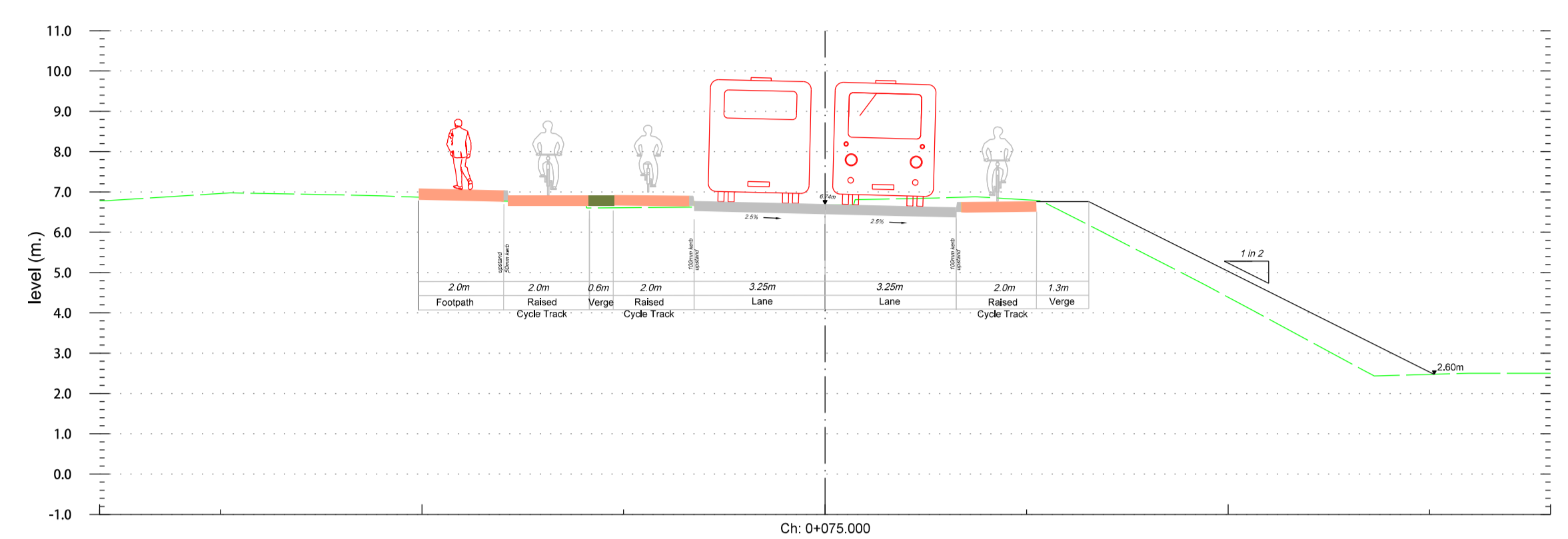
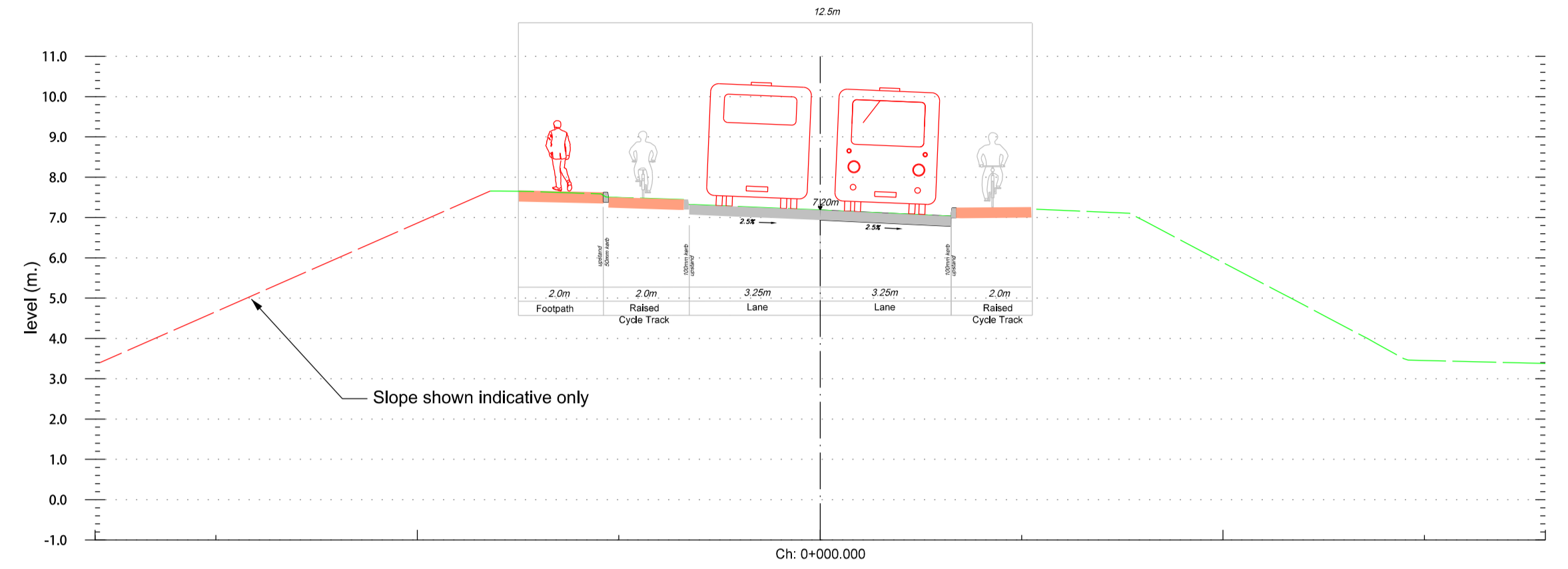
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Role	Civil Infrastructure
Suitability	S4
Arup Job No.	268095-00
Name	RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9080
Rev	P03



Key:
1. This drawing should be read in conjunction with drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9040 and RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9041

LEGEND:

—	CARRIAGEWAY
—	MIXED FACILITIES
—	BRIDGE STRUCTURES
- - -	FENCE
—	EXISTING GROUND LEVEL



P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

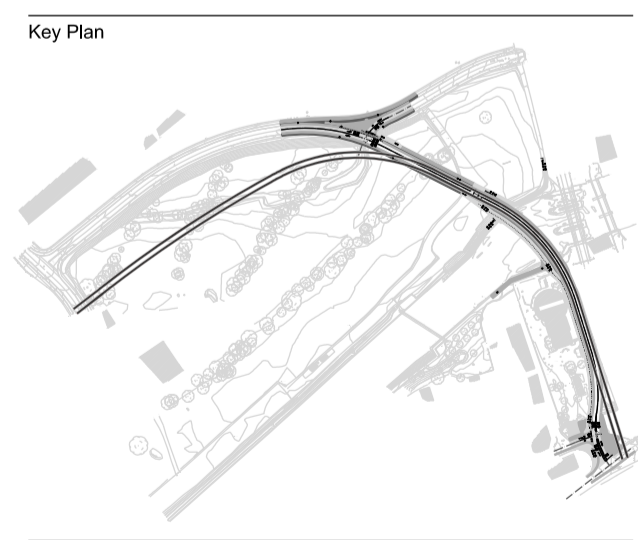
Rev	Date	By	Chkd	Appd
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Client
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Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Proposed Cross Section Highway CH: 0+000 to 0+125 Sheet 1 out of 3

Scale at A1
1:125

Role

Suitability
S4

Arup Job No
268095-00

Rev
P03

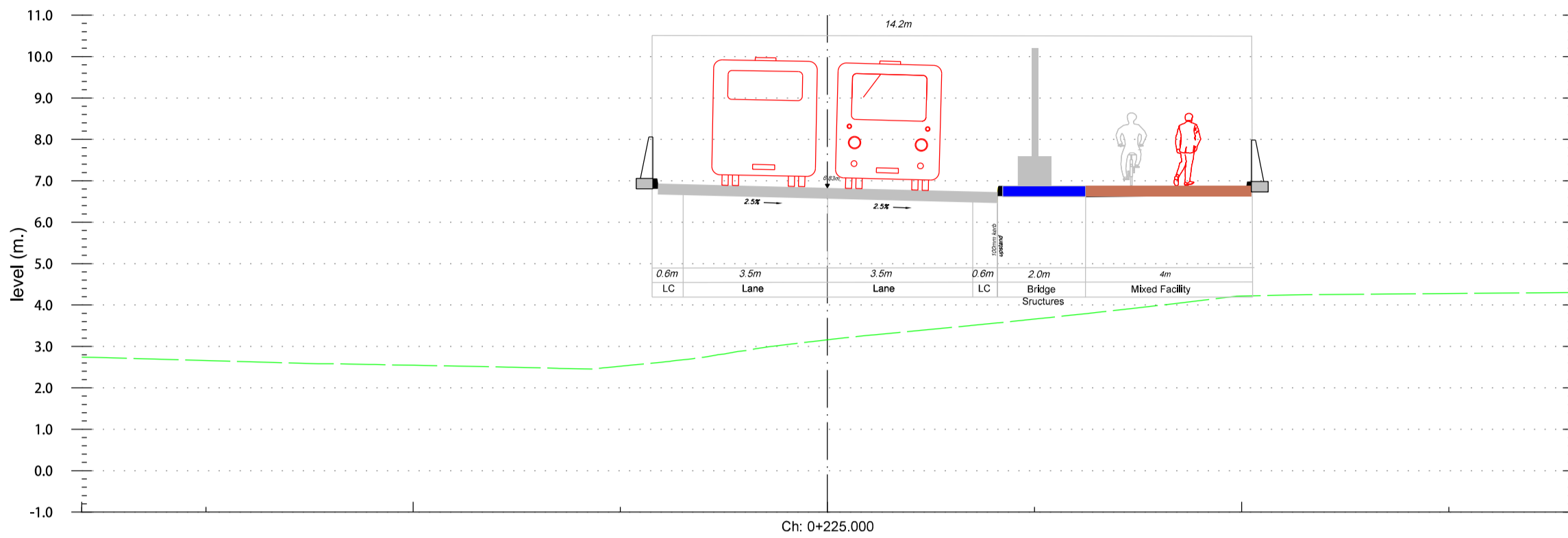
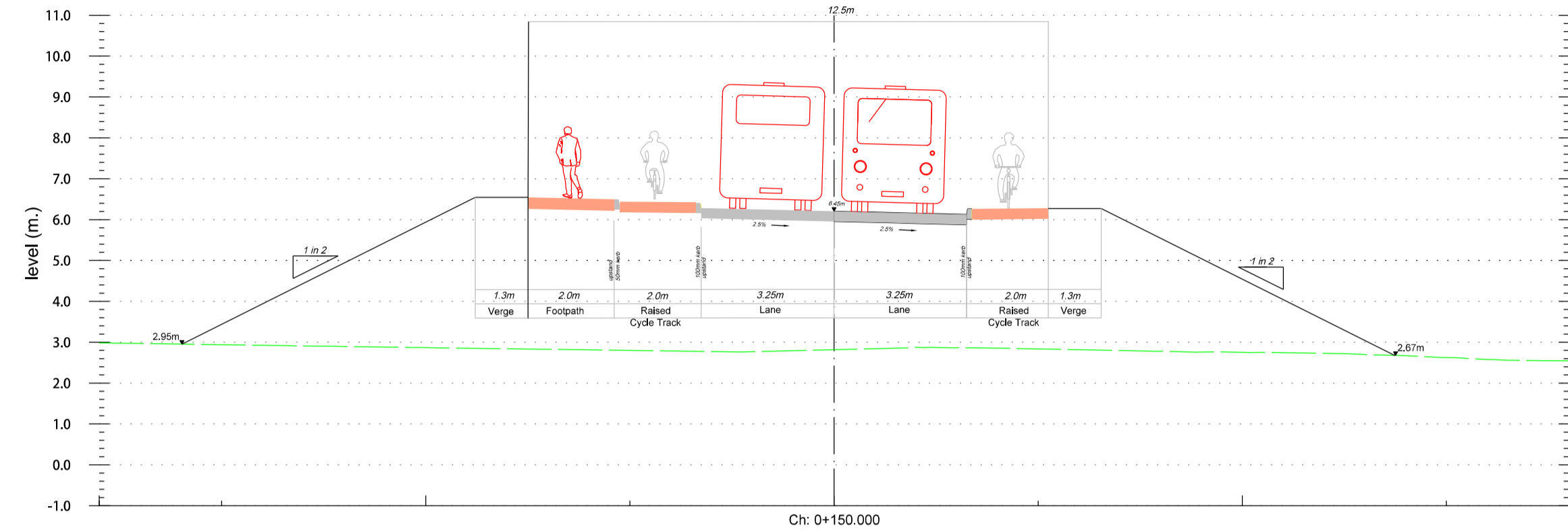
Name
RDPTB-ARUP-ZZZ-BRD-DR-CH-9090

SECTION
SCALE: H1:125 V1:125

A1

A B C D E F G H I J K L M N

1

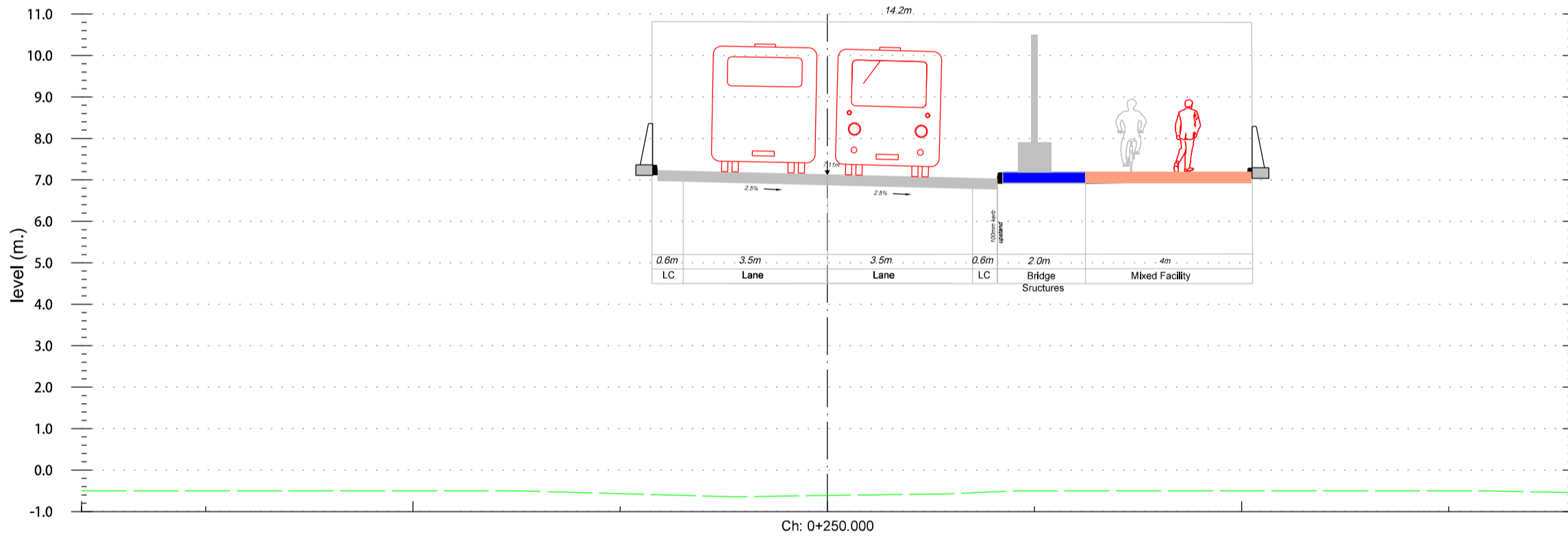
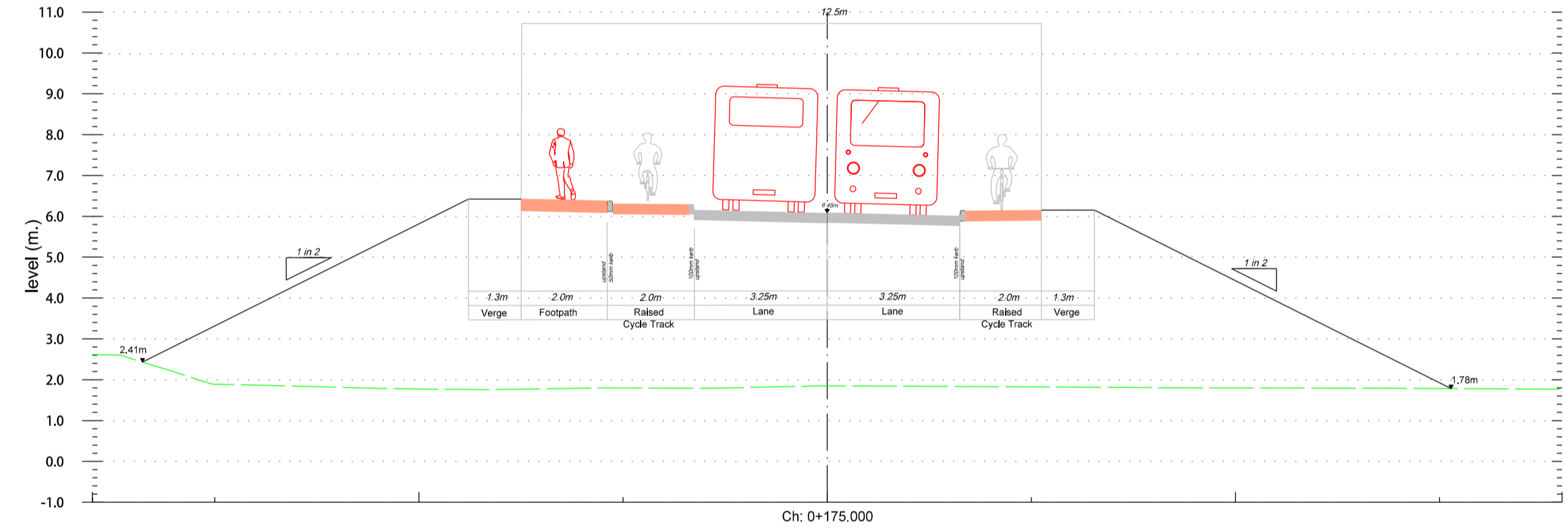


2

3

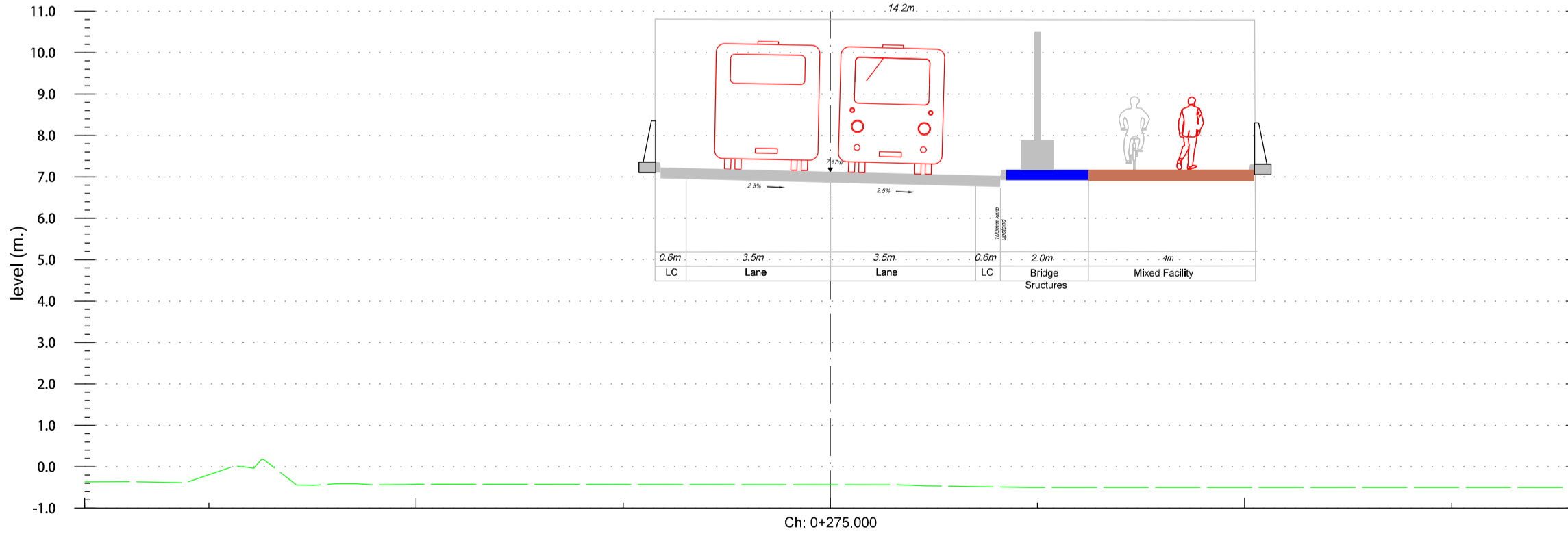
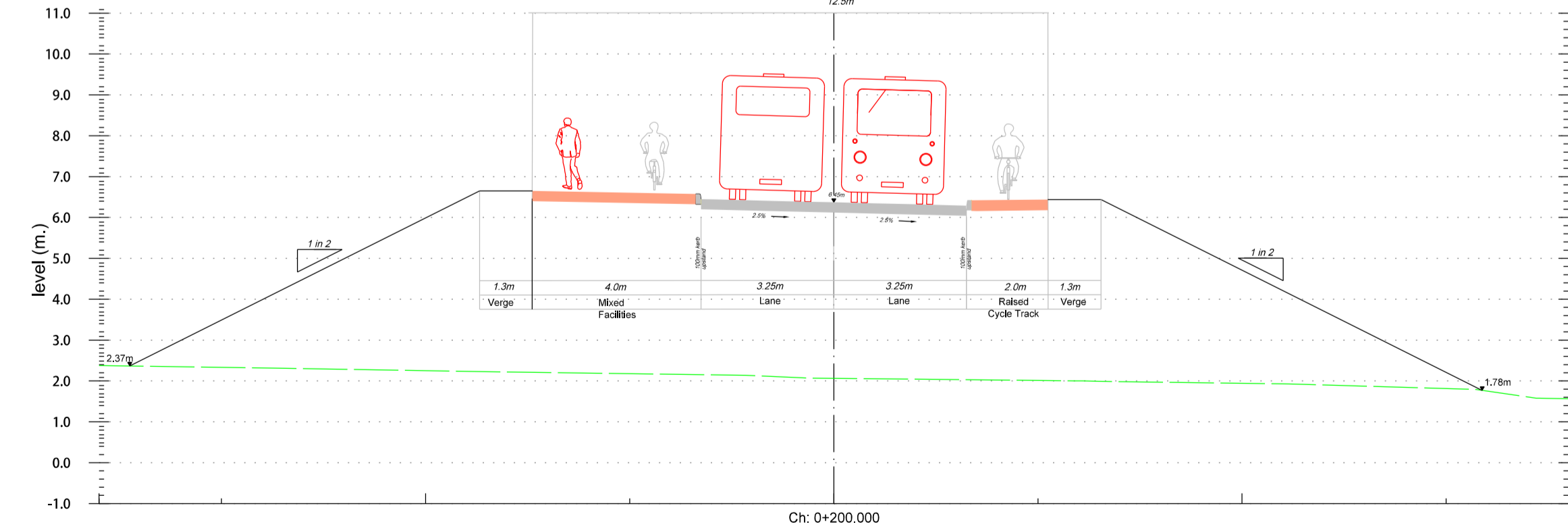
4

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Key:
 1. This drawing should be read in conjunction with drawings RDPTB-ARUP-ZZZ-ZZZ-DR-CH-0040 and RDPTB-ARUP-ZZZ-ZZZ-DR-CH-0041

- LEGEND:**
- CARRIAGEWAY
 - MIXED FACILITIES
 - BRIDGE STRUCTURES
 - - - FENCE
 - EXISTING GROUND LEVEL

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

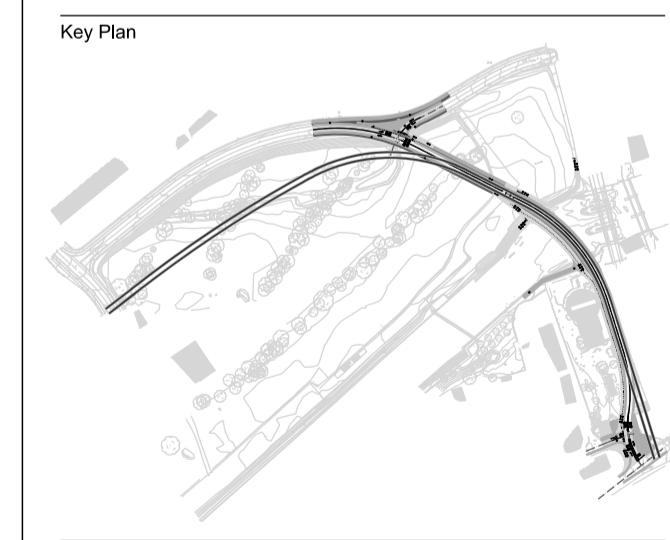
Rev	Date	By	Chkd	Appd

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Client
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Project Title
RIVER DARGLE PUBLIC TRANSPORTATION BRIDGE



Drawing Title
Proposed Cross Section Highway
CH:0+150 to 0+275
Sheet 2 out of 3

Scale at A1 1:125

Role

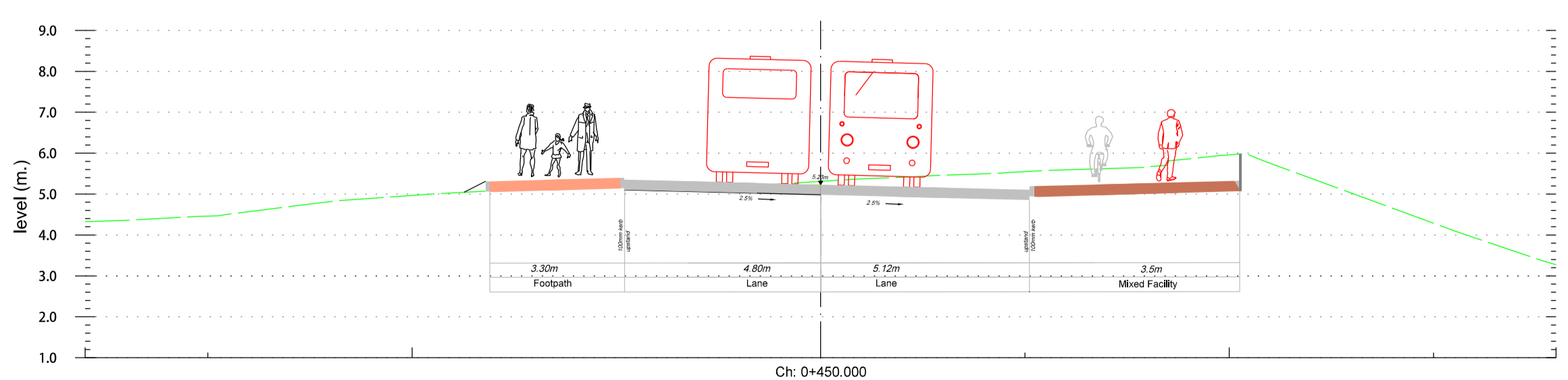
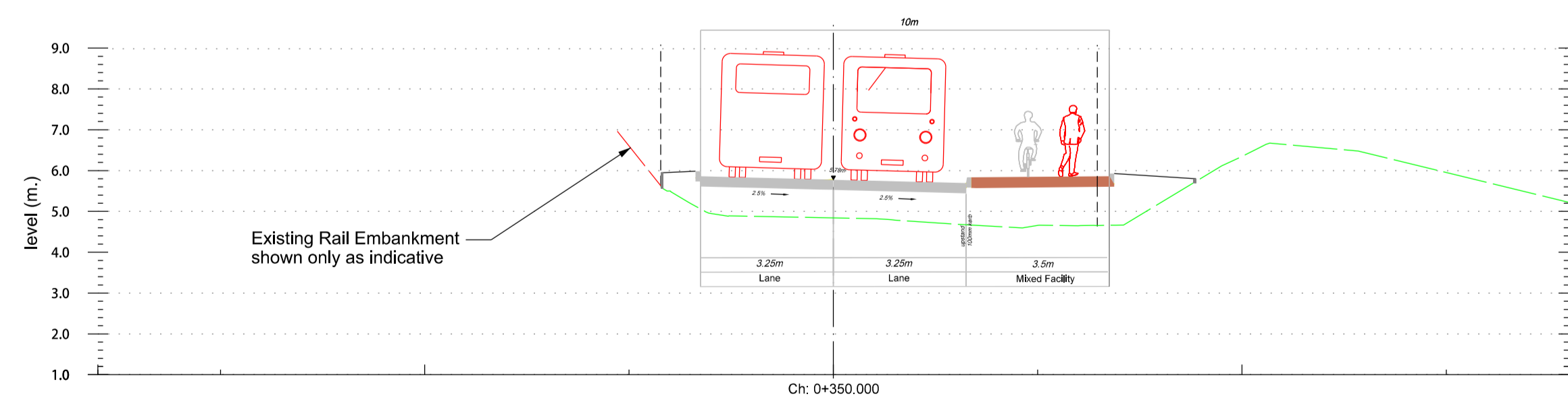
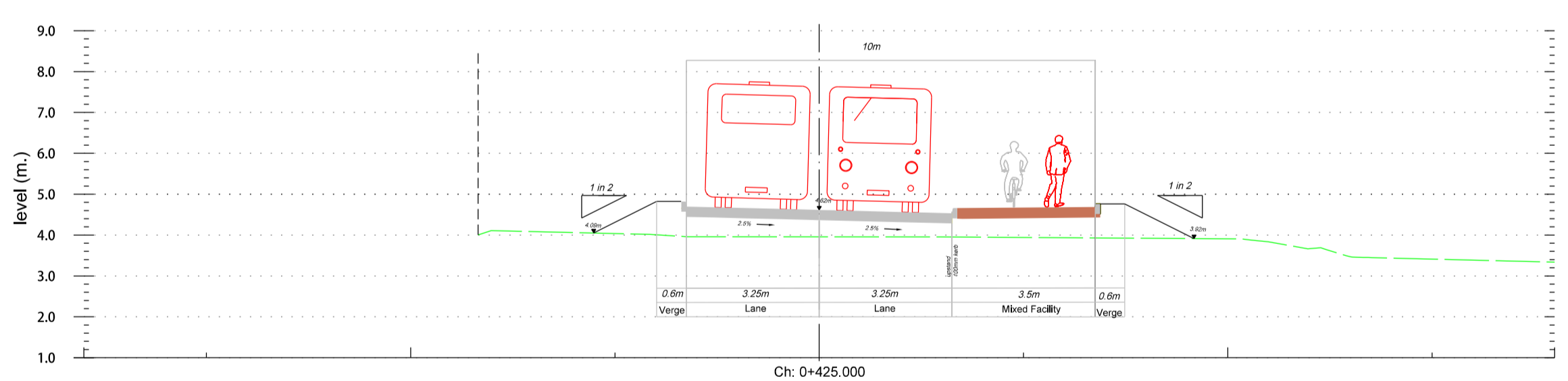
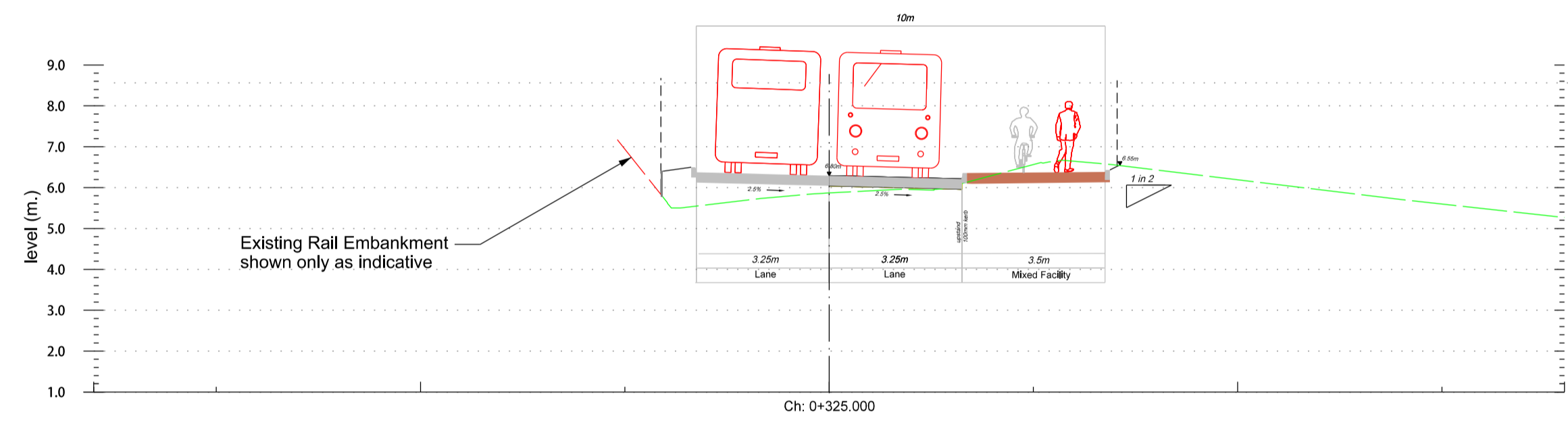
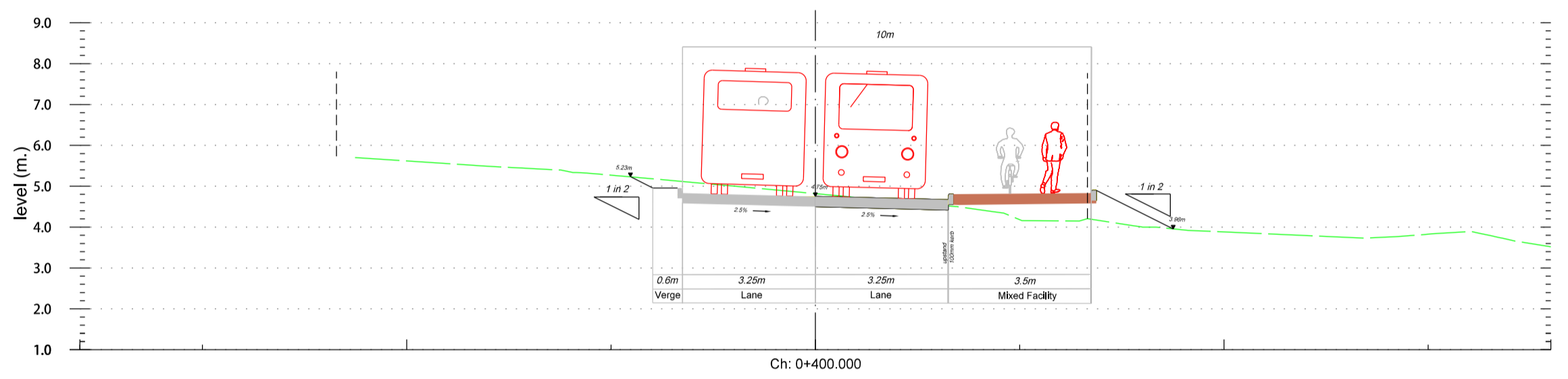
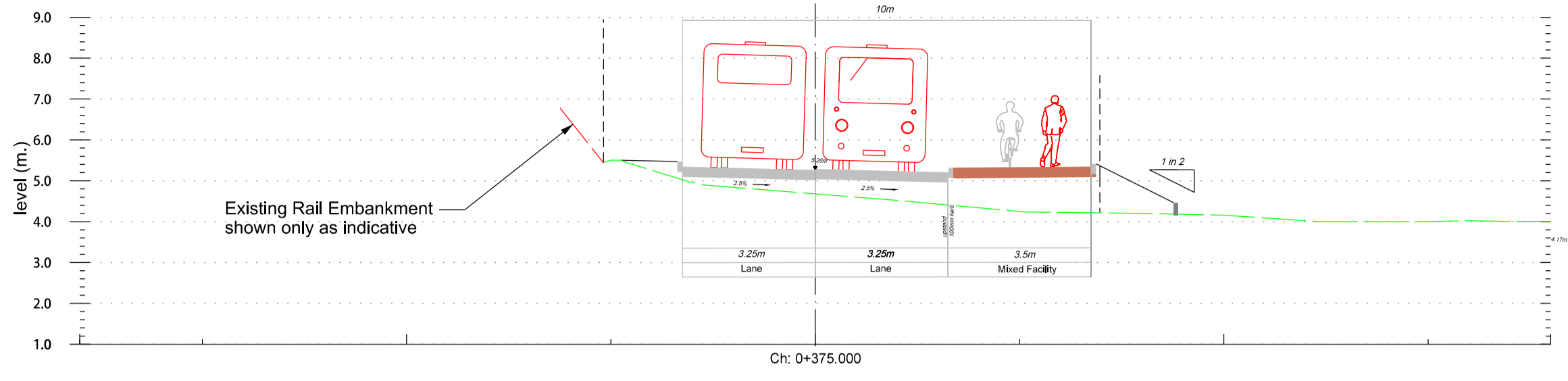
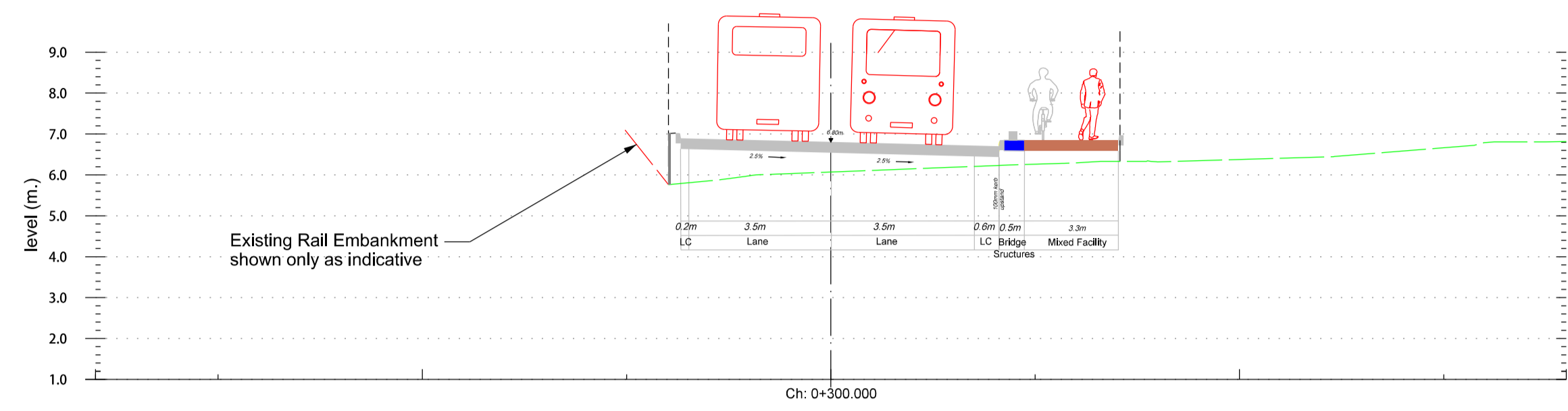
Suitability S4

Arup Job No
268095-00

Rev
P03

Name
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9091

SECTION
 SCALE: H1:125 V1:125



key:
 1. This Drawing should be read in conjunction with Drawings RDPTB-ARUP-ZZZ-ZZZ-9060; RDPTB-ARUP-ZZZ-ZZZ-9061; RDPTB-ARUP-ZZZ-ZZZ-9062;

LEGEND:

- █ CARRIAGEWAY
- █ MIXED FACILITIES
- █ BRIDGE STRUCTURES
- - - FENCE
- EXISTING GROUND LEVEL

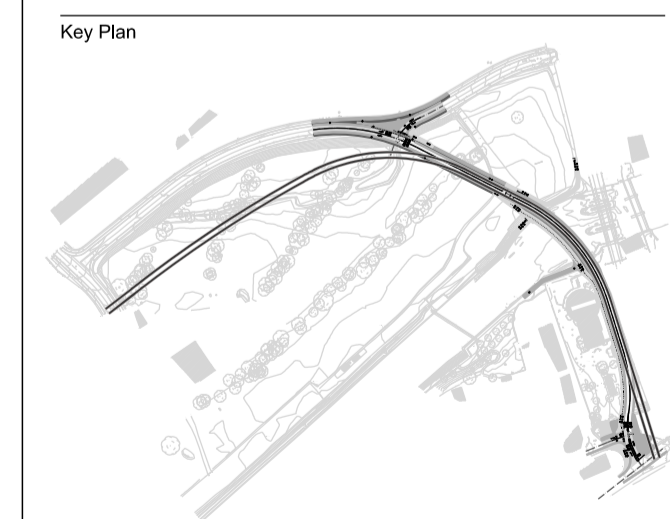
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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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Client
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Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Proposed Cross Section Highway CH: 0+300 to 0+ 450 Sheet 3 out of 3

Scale at A1 1:125

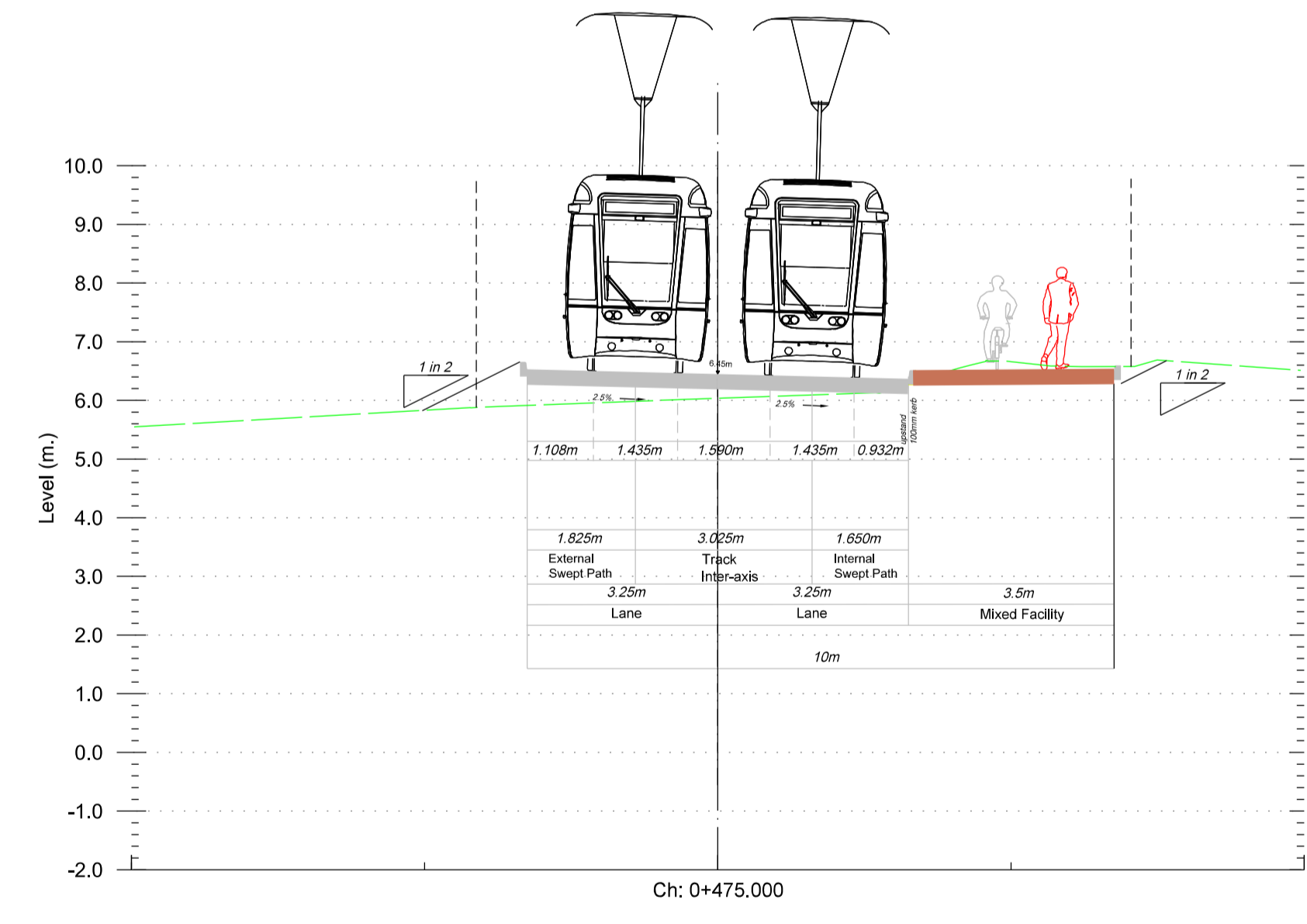
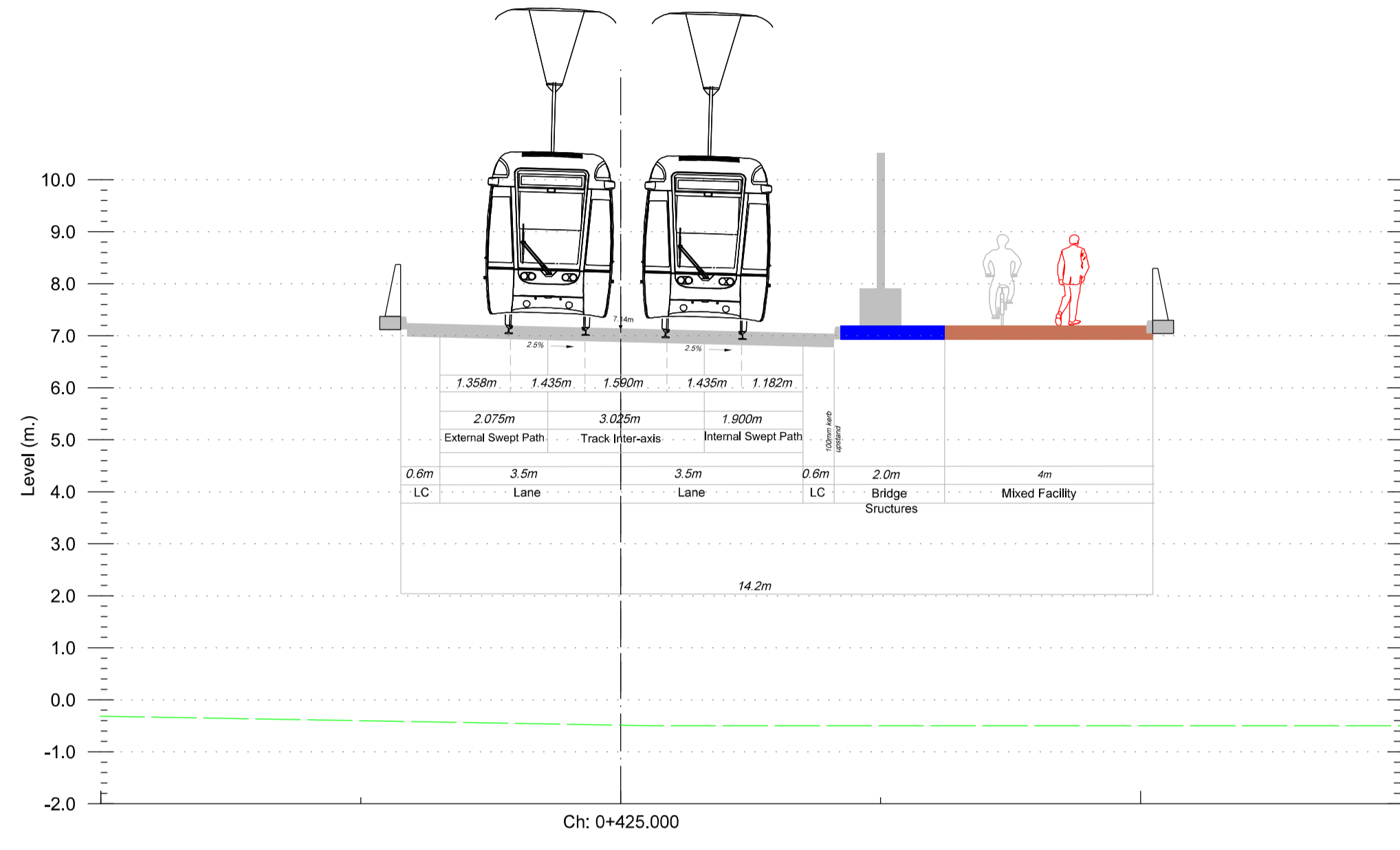
Role

Suitability S4

Arup Job No **268095-00** Rev **P03**

Name **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9092**

SECTION SCALE: H1:125 V1:125



SECTION
SCALE: H1:100 V1:100

Key:
1. This Drawing should be read in conjunction with Drawings RDPTB-ARUP-ZZZ-ZZZ-9070; RDPTB-ARUP-ZZZ-ZZZ-9071; RDPTB-ARUP-ZZZ-ZZZ-9072;

LEGEND:

- CARRIAGEWAY
- MIXED FACILITIES
- BRIDGE STRUCTURES
- - - FENCE
- EXISTING GROUND LEVEL

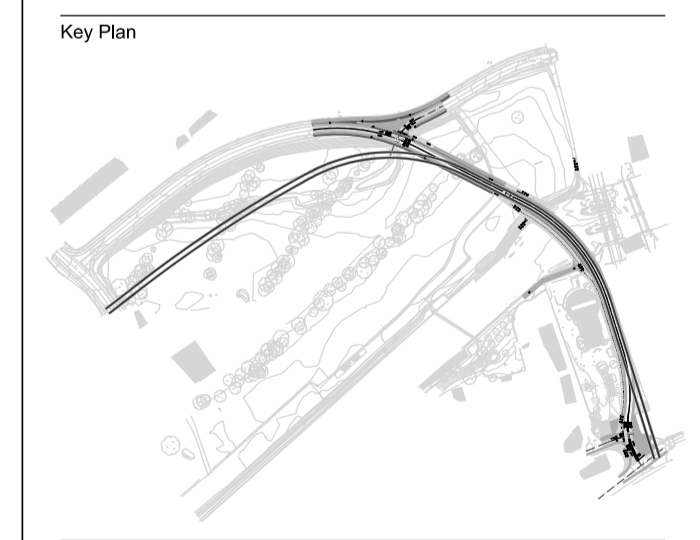
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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd

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Client
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Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Proposed Cross Section Rail

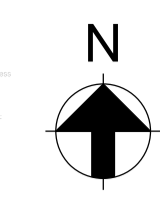
Scale at A1
1:100

Role
Suitability S4

Arup Job No 268095-00	Rev P03
Name RDPTB-ARUP-ZZZ-BRD-DR-CH-9100	

A1 A B C D E F G H I J K L M N

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Key:
 All road and land ownership boundaries are verified through Legal and Land searched by the Client.
 This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020
 Arup shall not be liable for any inaccuracies or deficiencies.

LEGEND:

	SINGLE STREET LIGHT
	RED LINE BOUNDARY

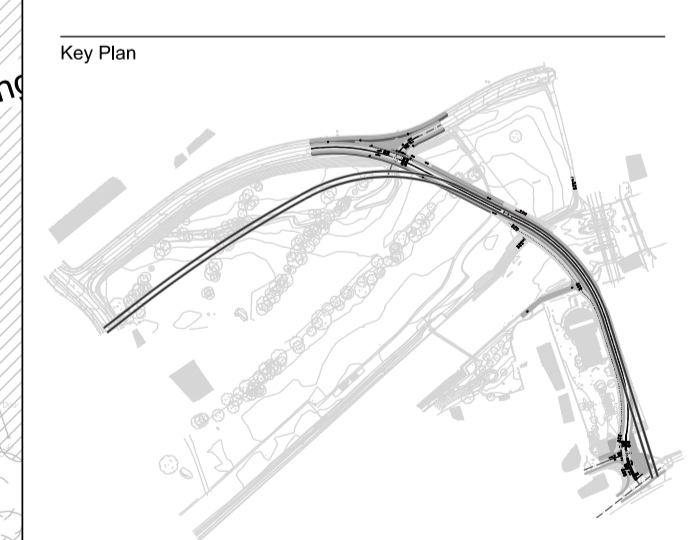
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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
**Proposed Street Lighting Plan
 Highway
 Sheet 1 out of 2**

Scale at A1: 1:500
 Role:
 Suitability: S4
 Arup Job No: **268095-00** Rev: **P03**
 Name:
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9110

0 10 20 30 40 50m
 SCALE 1:500
 DO NOT SCALE

PLAN
 SCALE: 1:500

Do not scale

© Arup

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Key:
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LEGEND:

	SINGLE STREET LIGHT
	RED LINE BOUNDARY

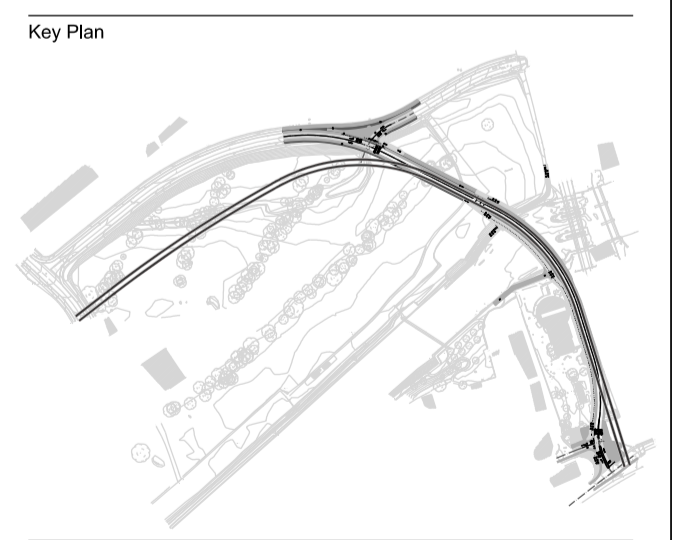
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Rev	Date	By	Chkd	Appd
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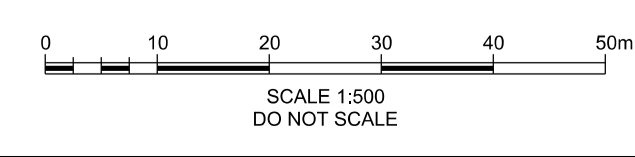
Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Proposed Street Lightning Plan Highway Sheet 2 out of 2

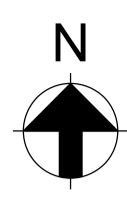
Scale at A1	1:500
Role	
Suitability	- S4
Arup Job No	268095-00
Name	RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9111
Rev	P03



PLAN
SCALE: 1:500

A1 A B C D E F G H I J K L M N

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Key:
 All road and land ownership boundaries are verified through Legal and Land searched by the Client.
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 Arup shall not be liable for any inaccuracies or deficiencies.
 Appropriate tactile paving shall be provided at all crossing locations in accordance with "Guidance in the use of tactile paving surfaces".

LEGEND:

- 100 mm KERB UPSTAND
- 50 mm KERB UPSTAND
- DROP KERB

— RED LINE BOUNDARY

Full height kerb to be installed with a maximum up stand of 6mm from the top of the ramps to facilitate VRUs.

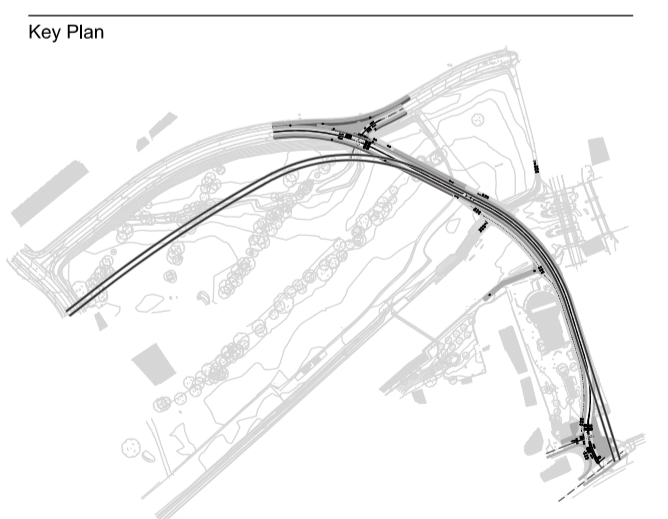
SEE DRG: RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9121

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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG
Rev	Date	By	Chkd	Appd

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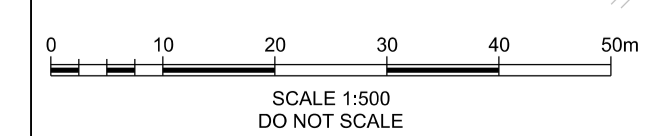
Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
**Proposed Kerbing Plan
 Highway
 Sheet 1 out of 2**

Scale at A1: 1:500
 Role:
 Suitability: S4
 Arup Job No: **268095-00** Rev: **P03**
 Name:
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9120

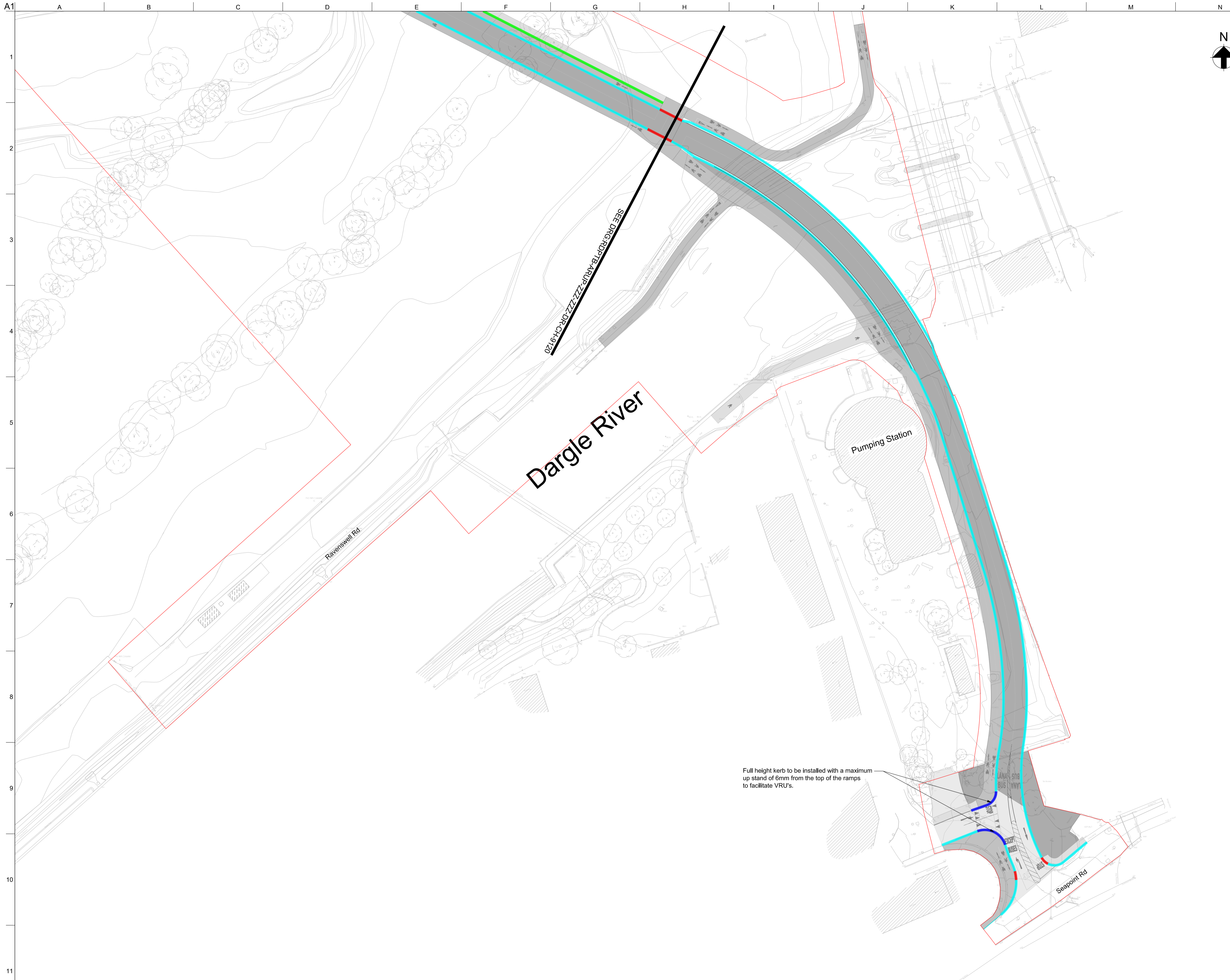


PLAN
 SCALE: 1:500

Do not scale

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Key:

All road and land ownership boundaries are verified through Legal and Land searched by the Client.

This drawing is based upon topographical survey information undertaken By Murphys Surveys carried out in 13/01/2020

Arup shall not be liable for any inaccuracies or deficiencies.

Appropriate tactile paving shall be provided at all crossing locations in accordance with "Guidance in the use of tactile paving surfaces".

LEGEND:

	100 mm KERB UPSTAND
	50 mm KERB UPSTAND
	DROP KERB

	RED LINE BOUNDARY
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P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

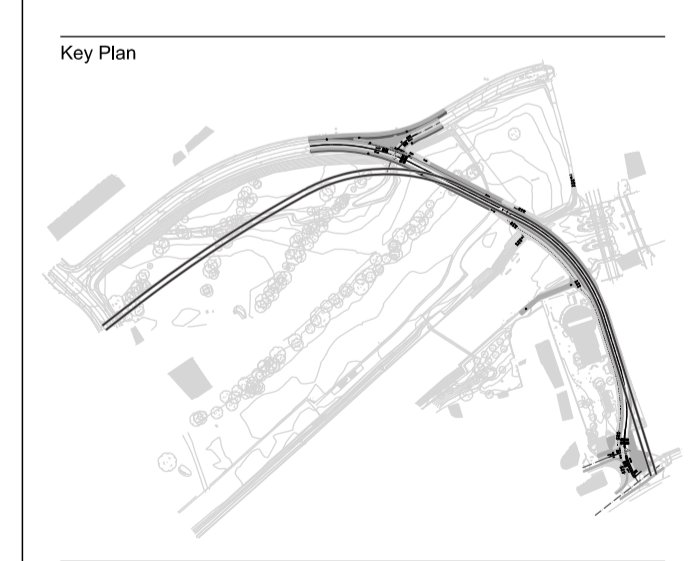
Rev	Date	By	Chkd	Appd
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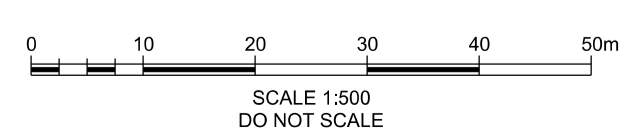
Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORTATION BRIDGE

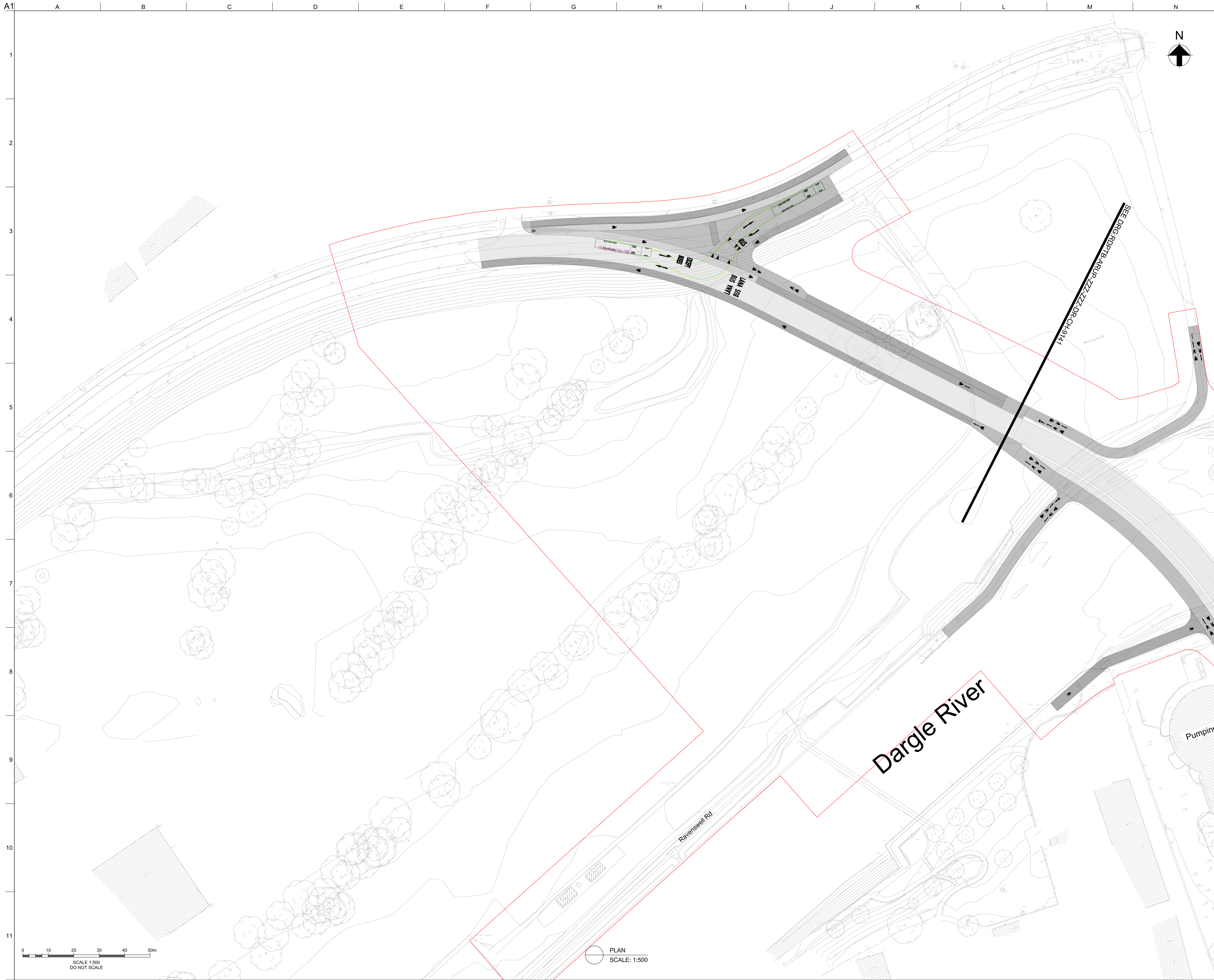


Drawing Title
**Proposed Kerbing Plan
 Highway
 Sheet 2 out of 2**

Scale at A1	1:500
Role	
Suitability	S4
Arup Job No	268095-00
Name	RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9121
Rev	P03



PLAN
SCALE: 1:500



Key:

Vehicle types Swept Path:

FTA Design Articulated Vehicle (1998)	
Overall Length	16.480m
Overall Width	2.550m
Overall Body Height	3.870m
Min Body Ground Clearance	0.515m
Max Track Width	2.470m
Lock-to-lock time	3.00s
Curb to Curb Turning Radius	6.550m

— RED LINE BOUNDARY

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

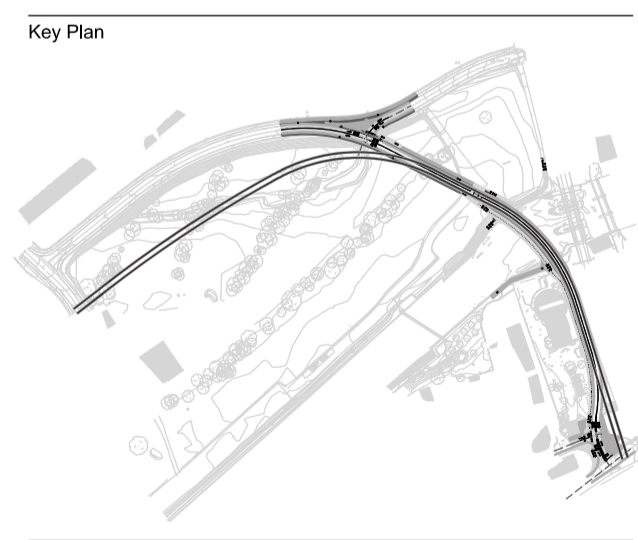
Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Swept Path Highway Sheet 1 out of 2

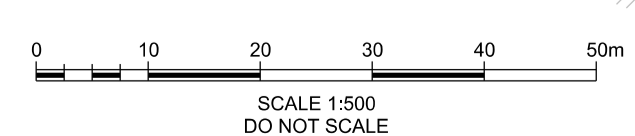
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Role

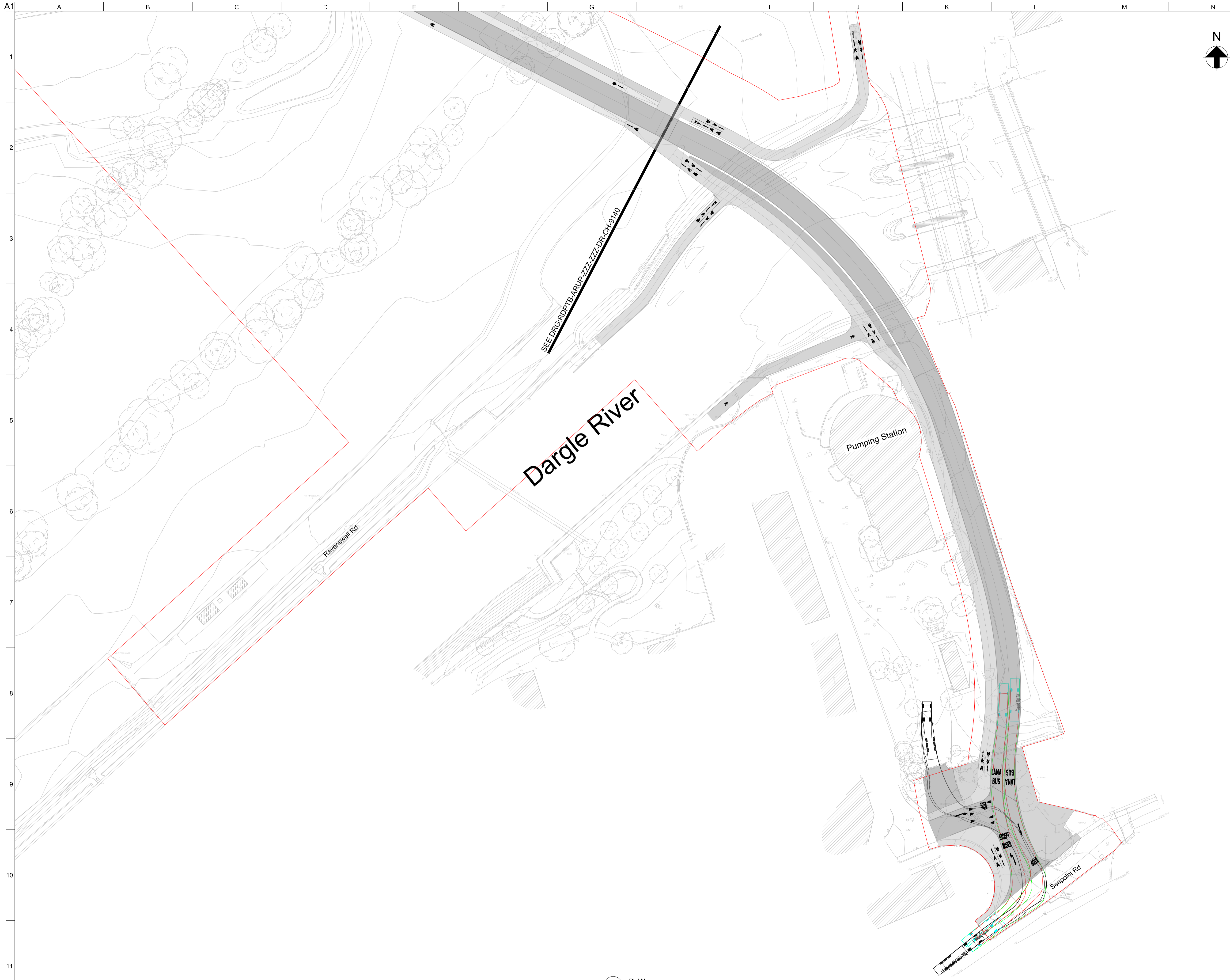
Suitability: S4

Arup Job No: **268095-00** Rev: **P03**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9140**



PLAN
SCALE: 1:500



SEE DRG: RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9140

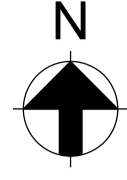
Dargle River

Pumping Station

Ravenhill Rd

LANA BUS

Seapoint Rd



Key:

Vehicle types Swept Paths:

FTA Design Articulated Vehicle (1998)	
Overall Length	16.480m
Overall Width	2.550m
Overall Body Height	3.870m
Min Body Ground Clearance	0.515m
Max Track Width	2.470m
Lock-to-lock time	3.00s
Curb to Curb Turning Radius	6.550m
Standard Rigid Bus	
Overall Length	12.000m
Overall Width	2.550m
Overall Body Height	3.069m
Min Body Ground Clearance	0.309m
Max Track Width	2.350m
Lock-to-lock time	4.00s
Wall to Wall Turning Radius	10.771m

— RED LINE BOUNDARY

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P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

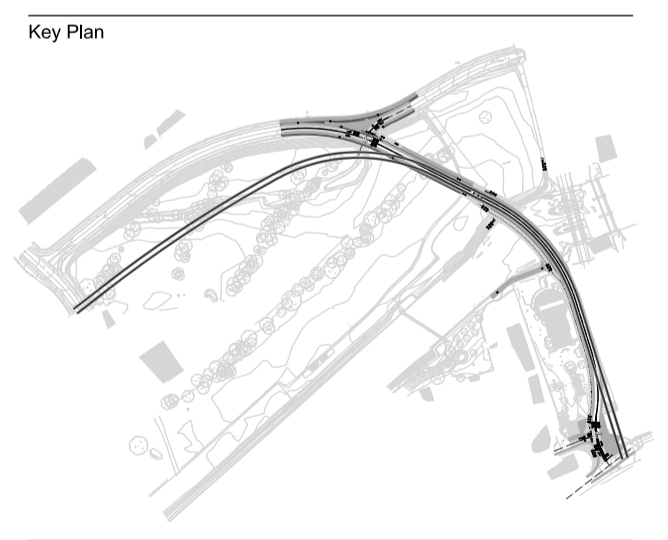
Rev	Date	By	Chkd	Appd

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Client
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Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Swept Path Highway Sheet 2 out of 2

Scale at A1: 1:500

Role

Suitability: S4

Arup Job No: **268095-00**

Rev: **P03**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9141**

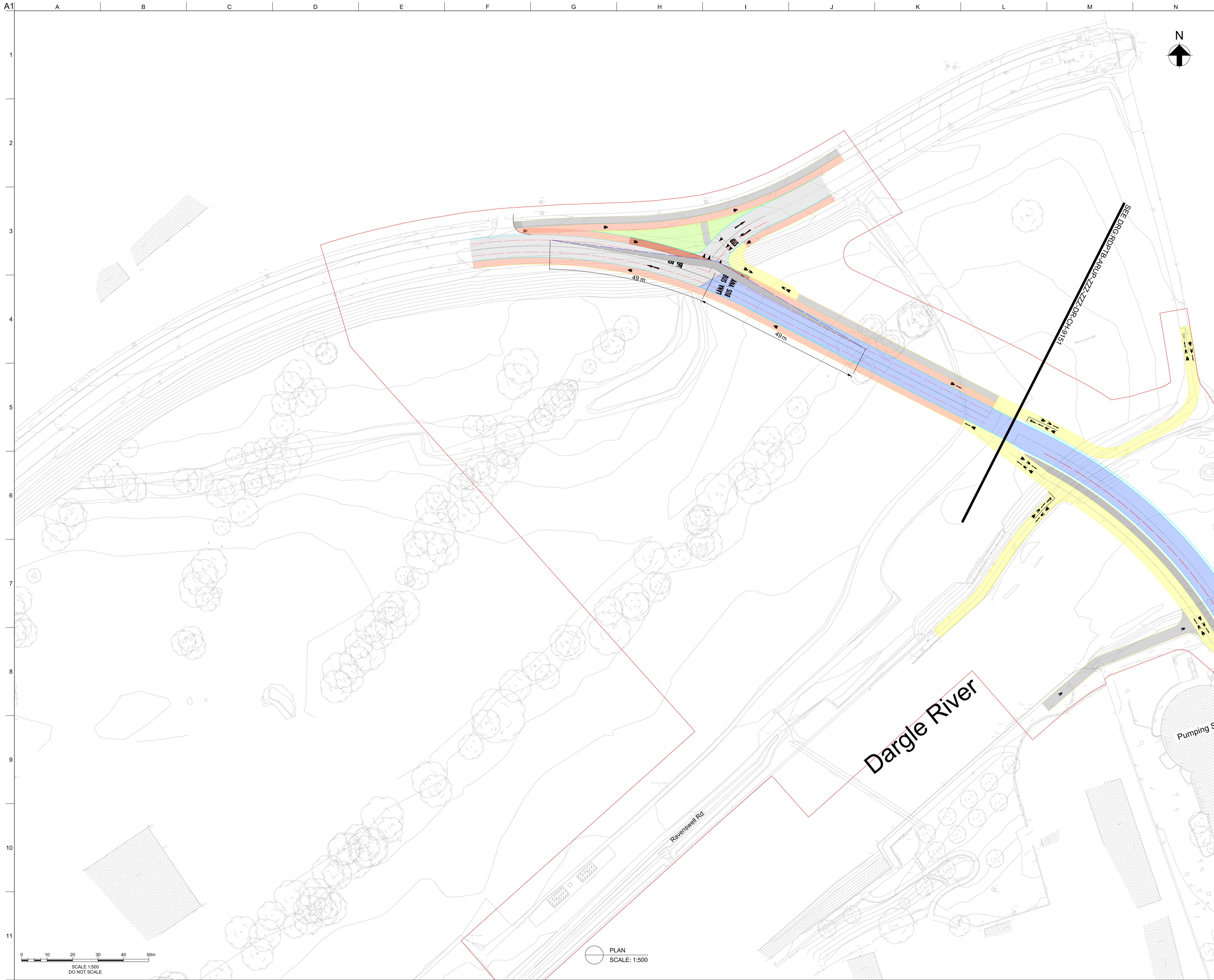
0 10 20 30 40 50m
SCALE 1:500
DO NOT SCALE

PLAN
SCALE: 1:500

Do not scale

© Arup

I:\global\arup\Dublin\268095-00\268095-004_1\InRoads\2021\Planning\RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9141.dgn



Key:

Sight visibility envelopes are provided in accordance with Design Manual for Urban Roads and Streets, Priority junctions in urban areas are designed as Stop junctions, and a maximum X distance of 2.4 metres should be used.

Y distance of 49m based off Forward Sight Distance based off design speed of 50 km/hr.

	SIGHT VISIBILITY DISTANCE (Ym)
	RED LINE BOUNDARY

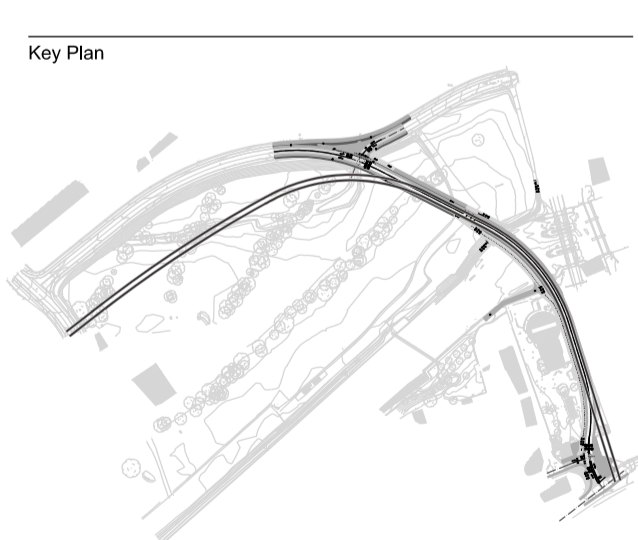
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Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Visibility Splay Highway Sheet 1 out of 2

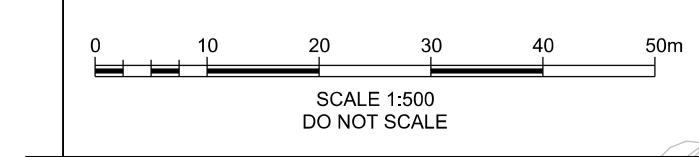
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Role

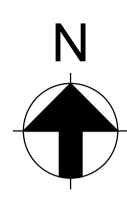
Suitability: S4

Arup Job No: **268095-00** Rev: **P03**

Name: **RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9150**



PLAN SCALE: 1:500



Key:

Sight visibility envelopes are provided in accordance with Design Manual for Urban Roads and Streets. Priority junctions in urban areas are designed as Stop junctions, and a maximum X distance of 2.4 metres should be used.

Y distance of 49m based off Forward Sight Distance based off design speed of 50 km/hr.

	SIGHT VISIBILITY DISTANCE (Ym)
	RED LINE BOUNDARY

P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

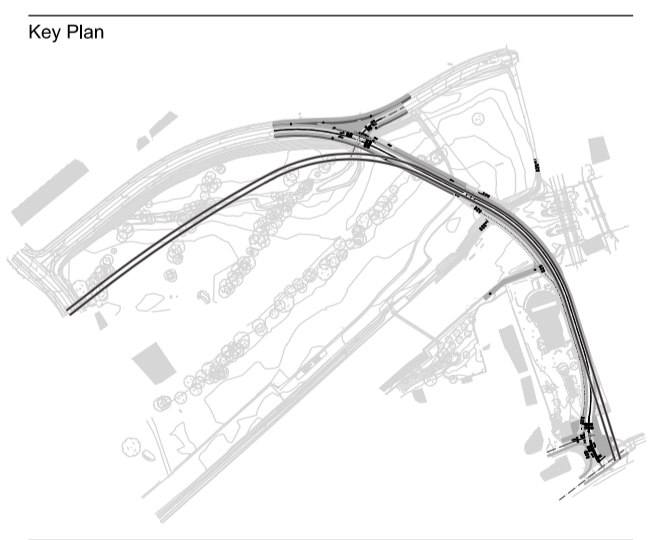
Rev	Date	By	Chkd	Appd

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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Visibility Splay Highway
 Sheet 2 out of 2

Scale at A1
 1:500

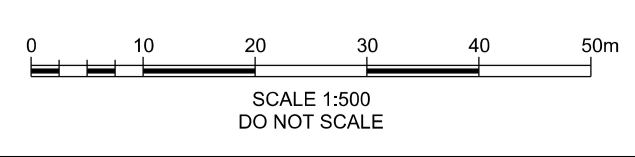
Role

Suitability
 S4

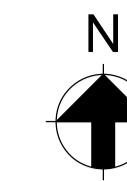
Arup Job No
268095-00

Rev
P03

Name
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9151



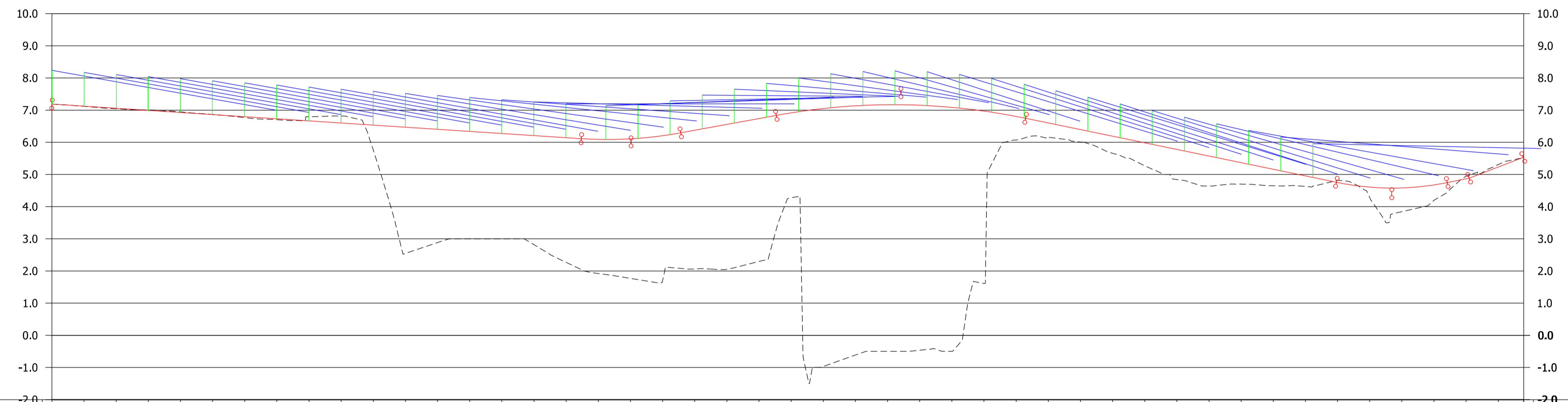
PLAN
 SCALE: 1:500



Key:
According to Design Manual for Urban Roads and Streets, Sight distance of 49 m based off design speed of 50 km/hr.

Envelope of visibility, Target height of 0.26 m metres applied from a driver's eye height of 2.00m.

	PROPOSED TRACK CENTRELINE
	EXISTING GROUND LEVEL
	FORWARD SIGHT DISTANCE
	HAND OF CURVE
	DUMBBELL
	GRADE
	LENGTH
	START OF CURVE
	INTERSECTION OF CURVE
	END OF CURVE
	RADIUS
	STRAIGHT
	TRANSITION LENGTH



CHAINAGE (m)	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	0+260	0+270	0+280	0+290	0+300	0+310	0+320	0+330	0+340	0+350	0+360	0+370	0+380	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+458	CHAINAGE (m)			
GROUND LEVEL (mATD)	7.2	7.1	7.0	7.0	6.9	6.9	6.8	6.7	6.8	6.8	5.8	2.5	2.9	3.0	3.0	2.8	2.3	1.9	1.8	1.7	2.1	2.1	2.3	4.3	-1.0	-0.6	-0.5	-0.5	-0.5	-1.6	6.1	6.2	6.0	5.7	5.3	4.8	4.6	4.7	4.6	4.6	4.8	4.3	3.8	4.2	4.9	5.3	5.5	GROUND LEVEL (mATD)			
PROPOSED ROAD LEVEL (mATD)	7.1	7.1	7.0	7.0	6.9	6.9	6.8	6.7	6.7	6.6	6.5	6.5	6.4	6.3	6.3	6.2	6.1	6.1	6.2	6.4	6.6	6.7	6.9	6.9	7.1	7.1	7.1	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.7	5.4	5.2	5.0	4.8	4.6	4.6	4.7	4.9	5.2	5.5	PROPOSED RAIL LEVEL (mATD)					
VERTICAL ALIGNMENT	L=164.677m G=-0.652%										L=30.919m R=1250.000m										L=77.562m R=2000.000m										L=96.691m G=-2.057%										L=34.474m R=850.000m										VERTICAL ALIGNMENT
HORIZONTAL ALIGNMENT	R=244.911m L=36.710m					R=138.954m L=84.490m					L=95.983m					R=132.993m L=105.954m					L=39.000m					R=130.000m L=35.611m					R=86.844m L=16.813m					R=52.450m L=43.339m					HORIZONTAL ALIGNMENT										

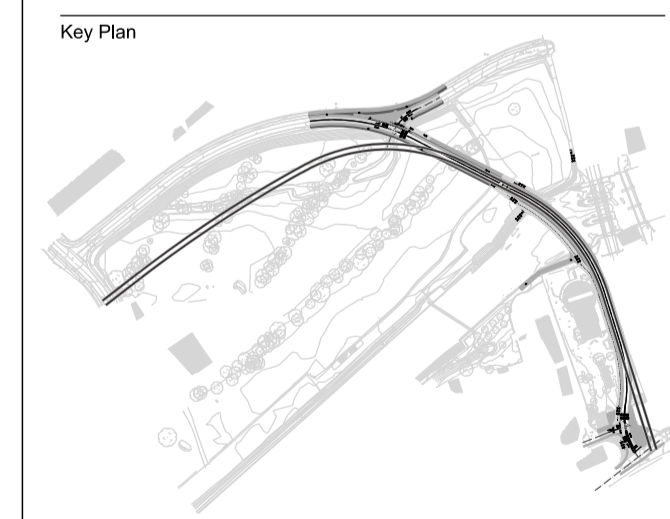
P03	28/01/21	ABG	AS	CG
P02	21/07/20	ABG	AS	CG
P01	05/05/20	ABG	AS	CG

Rev	Date	By	Chkd	Appd
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Client
WICKLOW COUNTY COUNCIL

Project Title
BRAY SUSTAINABLE TRANSPORT BRIDGE



Drawing Title
Vertical Visibility Drawing

Scale at A1
1:1000

Role
Suitability S4

Arup Job No
268095-00

Rev
P03

Name
RDPTB-ARUP-ZZZ-ZZZ-DR-CH-9160

PLAN
SCALE: 1:1000