

M5 Junction 10 Improvements Scheme

Engineering Drawings and Sections

Part 2 of 3

TR010063 – APP 2.10

Regulation 5(2)(p) and 6(2)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 2

November 2024

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Infrastructure Planning Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M5 Junction 10 Improvements Scheme Development Consent Order 202[x]

2.10 Engineering Drawings and Sections Part 2 of 3

Regulation Number:	Regulation 5(2)(p) and 6(2)
Planning Inspectorate Scheme Reference	TR010063
Application Document Reference	TR010063 – APP 2.10
Author:	M5 Junction 10 Improvements Scheme Project Team

Version	Date	Status of Version
Rev 0	December 2023	DCO Application
Rev 1	November 2024	Deadline 10

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1. Schedule of Plans included in this application document

1.1. List of drawings in Part 1

Document title	Document number	Version
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Key Plan	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Sheet 01 of 07	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Sheet 02 of 07	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation (2)(o) and 6(2) Sheet 03 and 07	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Sheet 04 and 07	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Sheet 05 and 07	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Sheet 06 and 07	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Plan and Profiles) Regulation 5(2)(o) and 6(2) Sheet 07 of 07	TR010063 – APP 2.10	C01
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Key Plan	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 01 of 08	TR010063 – APP 2.10	C01

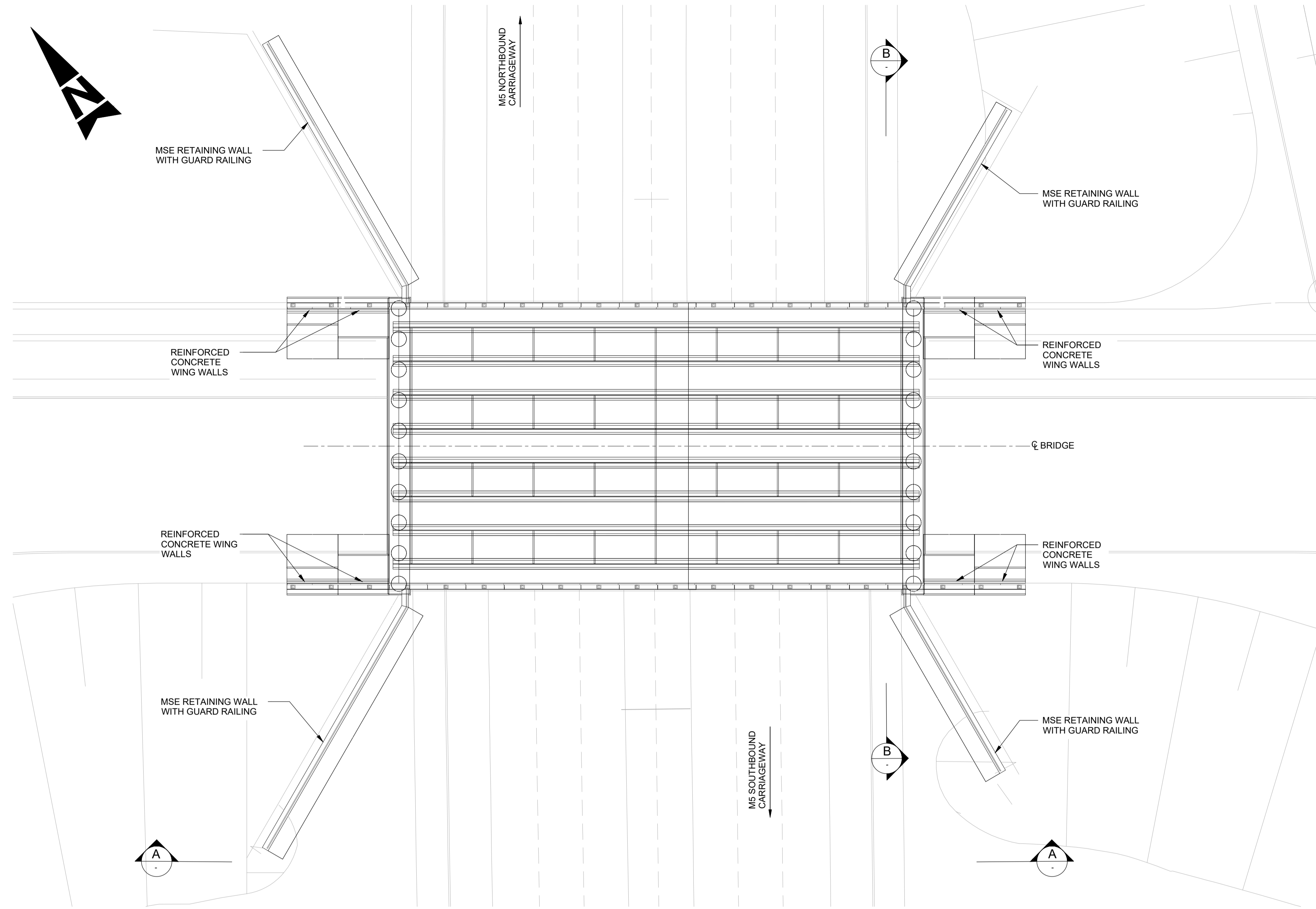
Document title	Document number	Version
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 02 of 08	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 03 of 08	TR010063 – APP 2.10	C01
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 04 of 08	TR010063 – APP 2.10	C01
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 05 of 08	TR010063 – APP 2.10	C01
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 06 of 08	TR010063 – APP 2.10	C01
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 07 of 08	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections (Cross Sections) Regulation 5(2)(o) and 6(2) Sheet 08 of 08	TR010063 – APP 2.10	C02 C04

1.2. List of drawings in Part 2

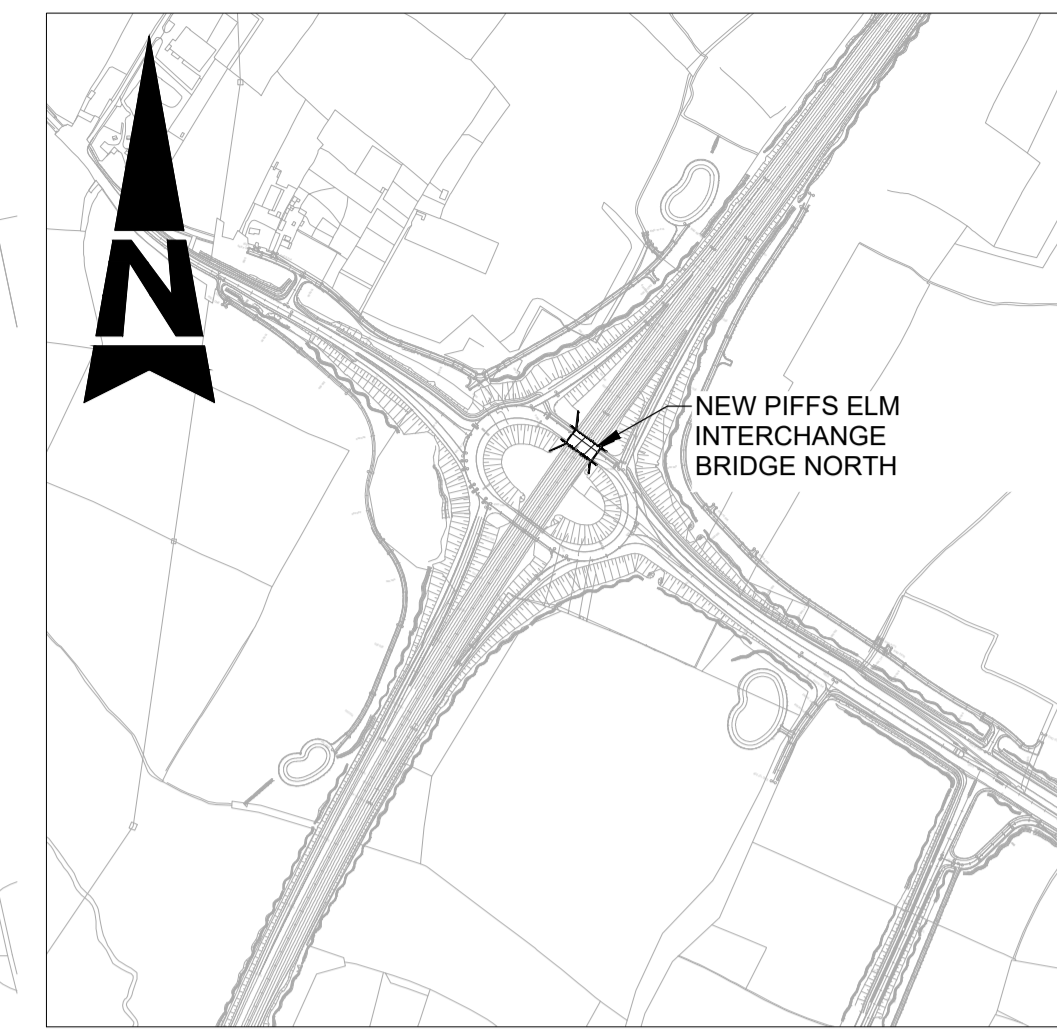
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Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 1 of 12	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 2 of 12	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 3 of 12	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 4 of 12	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 5 of 12	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 6 of 12	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 7 of 12	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 8 of 12	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 9 of 12	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 10 of 12	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 11 of 12	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Structural Details Sheet 12 of 12	TR010063 – APP 2.10	C01

1.3. List of drawings in Part 3

Document title	Document number	Version
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Landscape Section Drawings - Key Plan	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Landscape Section Drawings – Sheet 1 of 2	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Landscape Section Drawings – Sheet 2 of 2	TR010063 – APP 2.10	C02 C04
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Typical Detail Environmental Barrier Sheet 1 of 1	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Typical Detail Road Restraint System Sheet 1 of 1	TR010063 – APP 2.10	C01
Engineering Drawings and Sections Regulation 5(2)(o) and 6(2) Typical Detail Lighting Column and Foundation Sheet 1 of 1	TR010063 – APP 2.10	C01



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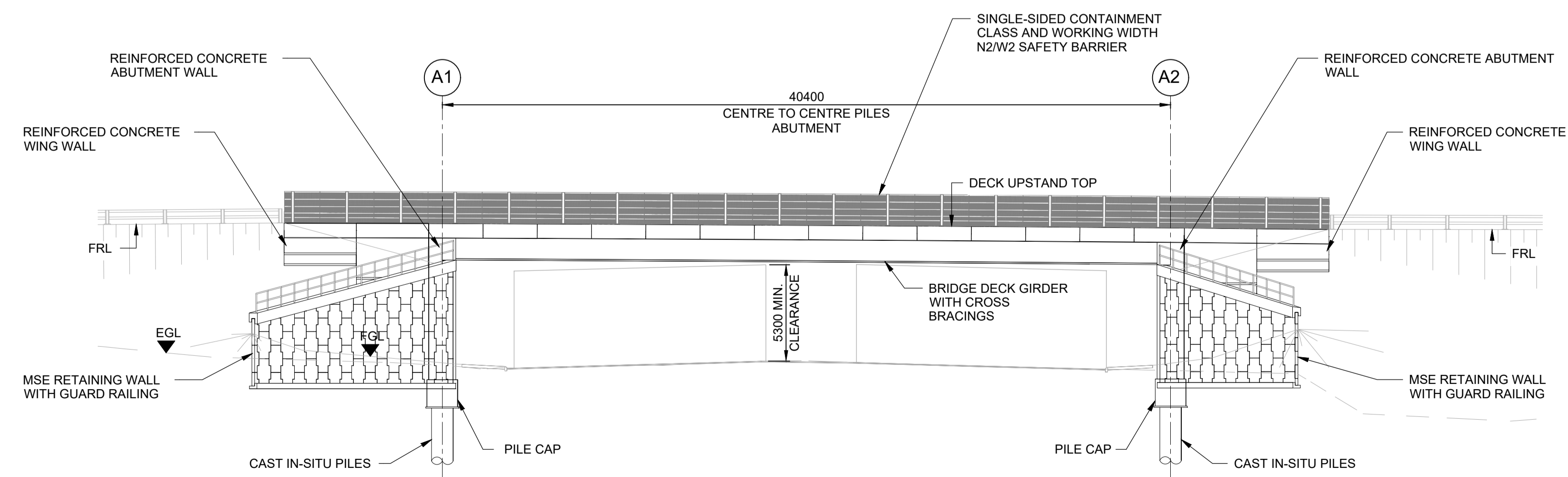
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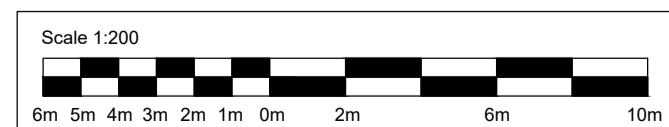
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2. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH TR010063/APP/2.10 ENGINEERING SECTION DRAWINGS (PLAN AND PROFILES) AND THE DEVELOPMENT CONSENT ORDER.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD). DIMENSIONS AND LEVELS ARE SHOWN INDICATIVELY.
4. FULL LENGTH OF PILES NOT SHOWN.
5. DRAINAGE NOT SHOWN.

ABBREVIATION:

- FGL - FINISHED GROUND LEVEL
- FRL - FINISHED ROAD LEVEL
- TYP - TYPICAL
- EGL - EXISTING GROUND LEVEL
- C - CENTERLINE
- MIN - MINIMUM



A ELEVATION
1 : 200



Description

Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

Description

Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

Description

Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

Description

CHANGE APPLICATION 2 AMENDMENTS INCLUDED

Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C02	DV	SA	CJ	BM	18/11/24

Description

FIRST SUBMISSION

Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AP	HT	CR	LJ	15/12/23

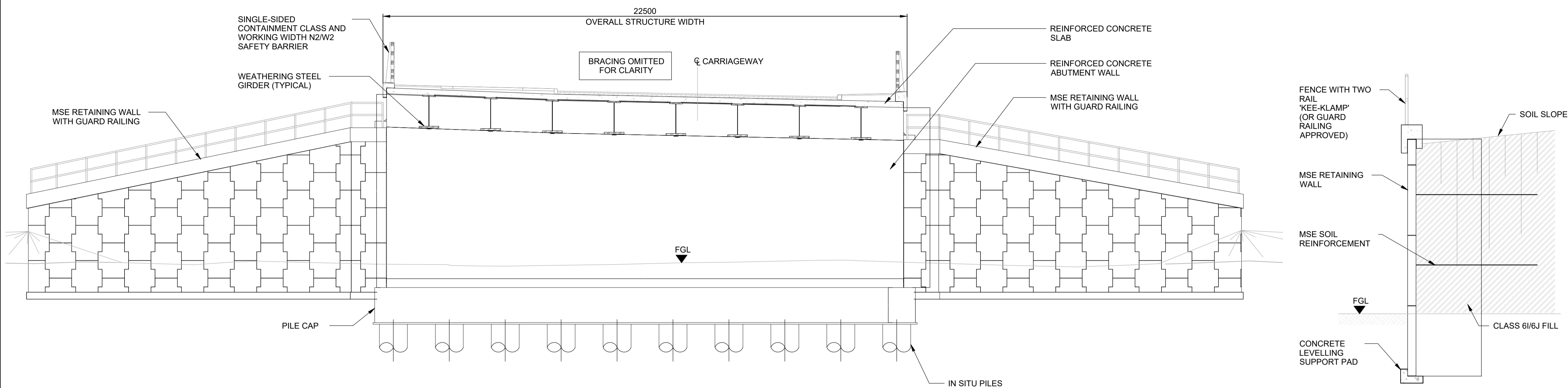
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Project Title
M5 J10 Improvements Scheme

Drawing Title
STRUCTURAL DETAILS
NEW PIFFS ELM INTERCHANGE BRIDGE
NORTH
SHEET 1 OF 12

Drawing Number
TR010063/APP/2.10

Original Size:	A1	Scale:	As Shown	Project Ref. No.:	5197035	Sheet:	1 of 12	Rev.:	C02
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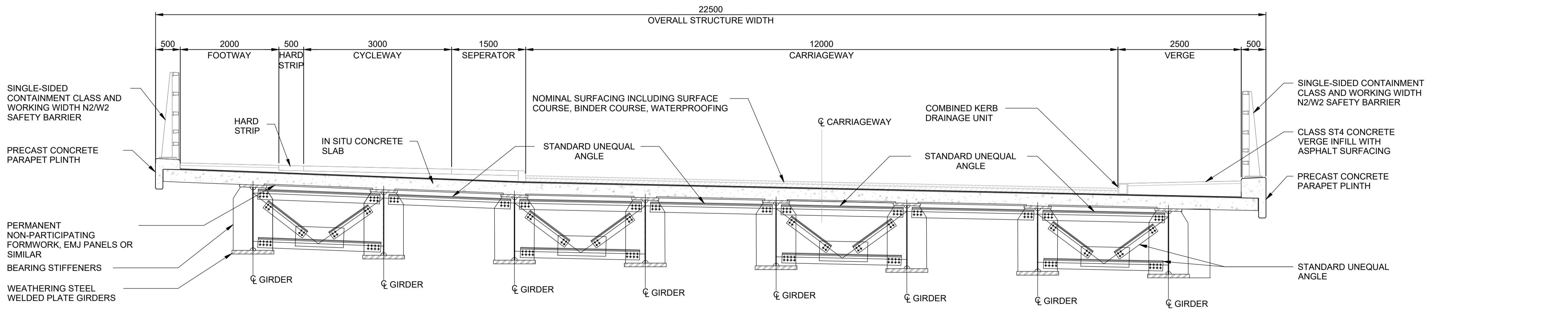


B SECTION
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TYPICAL SECTION THROUGH MSE WALL
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 - THESE PLANS SHOULD BE READ IN CONJUNCTION WITH TR010063/APP/2.10 ENGINEERING SECTION DRAWINGS (PLAN AND PROFILES) AND THE DEVELOPMENT CONSENT ORDER.
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ABBREVIATION:
 FGL - FINISHED GROUND LEVEL
 FRL - FINISHED ROAD LEVEL
 TYP - TYPICAL
 EGL - EXISTING GROUND LEVEL
 C - CENTERLINE



TYPICAL DECK SECTION
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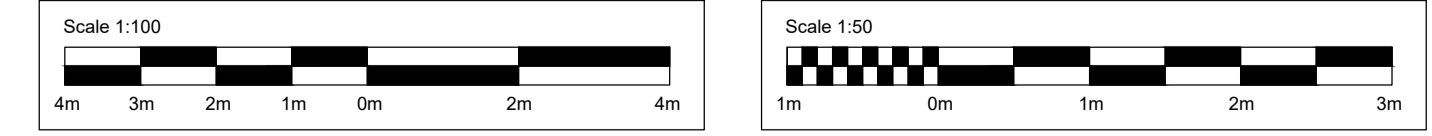
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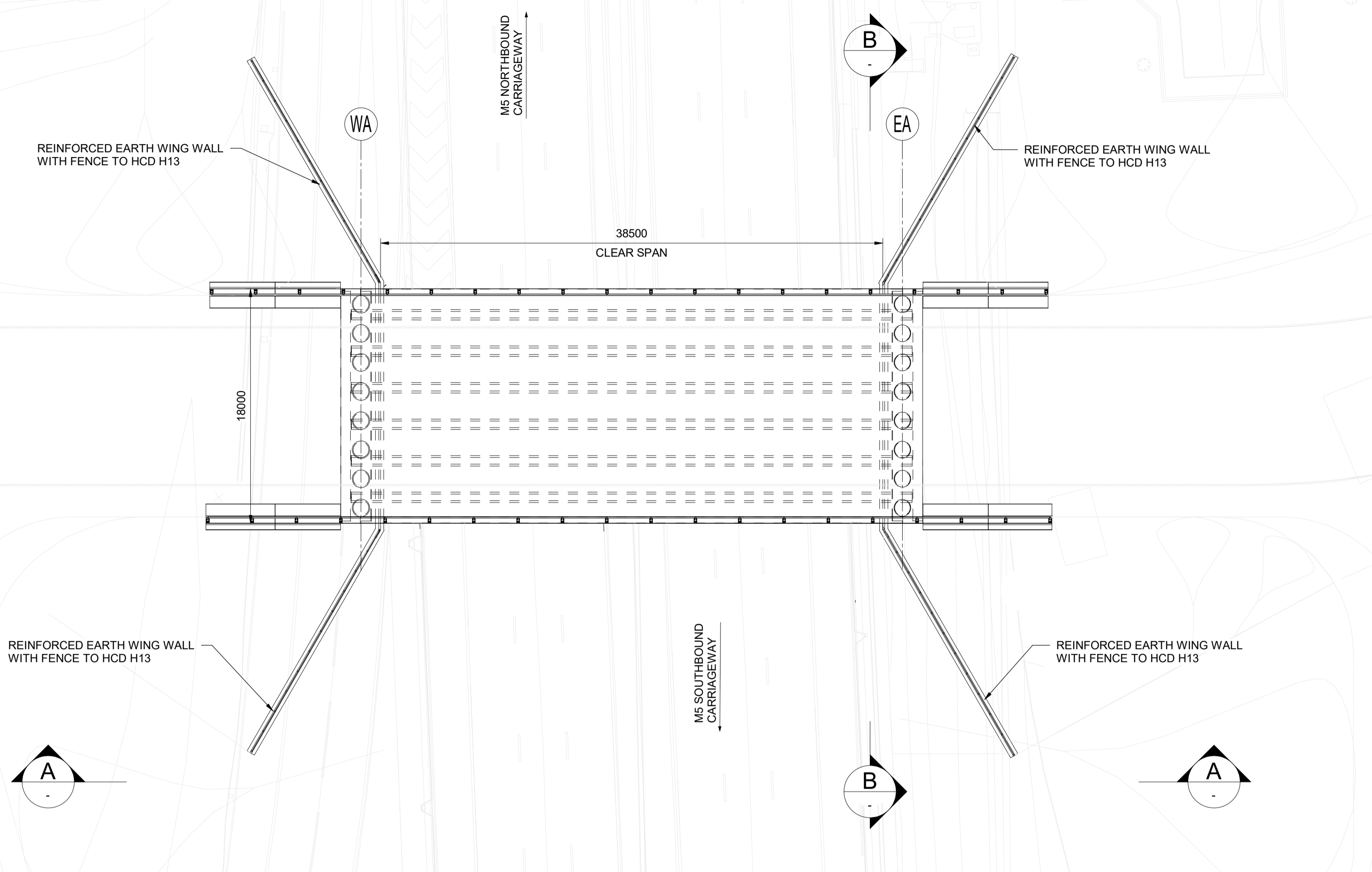
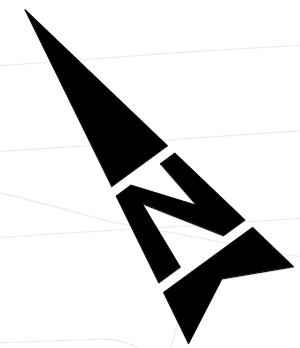
Project Title
M5 J10 Improvements Scheme

Drawing Title
**STRUCTURAL DETAILS
NEW PIFFS ELM INTERCHANGE BRIDGE
NORTH
SHEET 2 OF 12**

Drawing Number
TR010063/APP/2.10

Original Size: **A1** Scale: **As Shown** Project Ref. No.: **5197035** Sheet: **2 of 12** Rev: **C02**





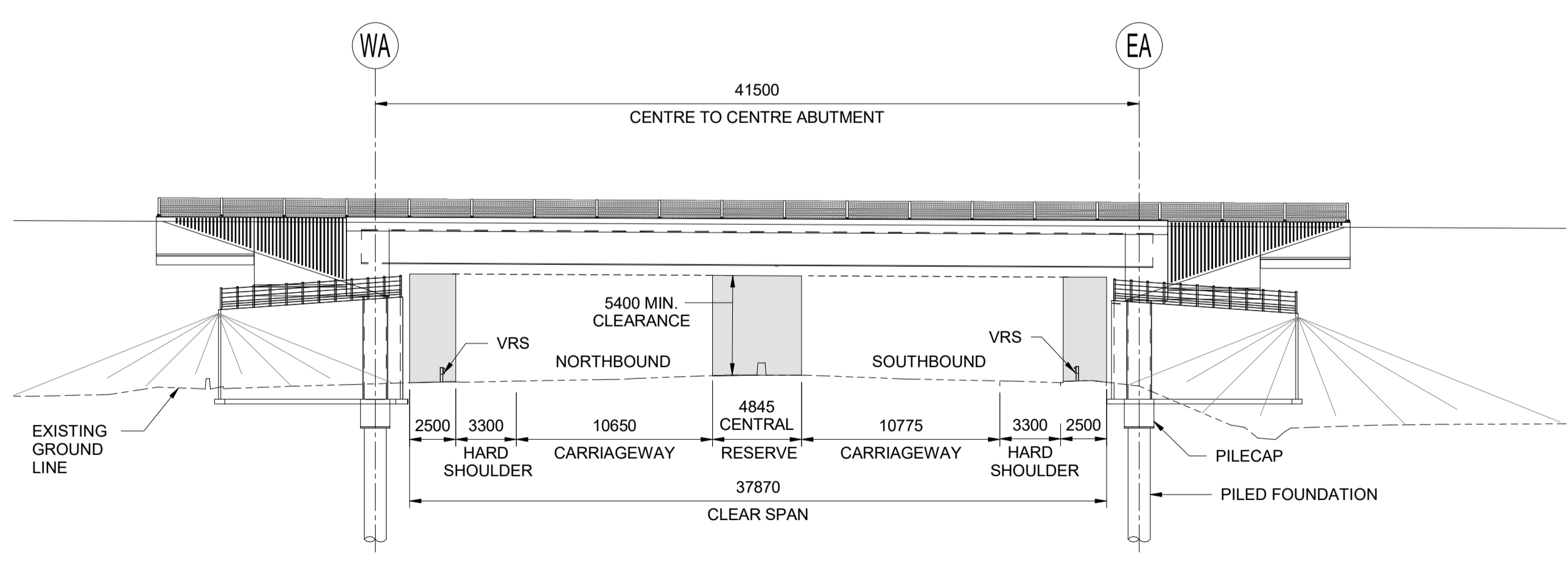
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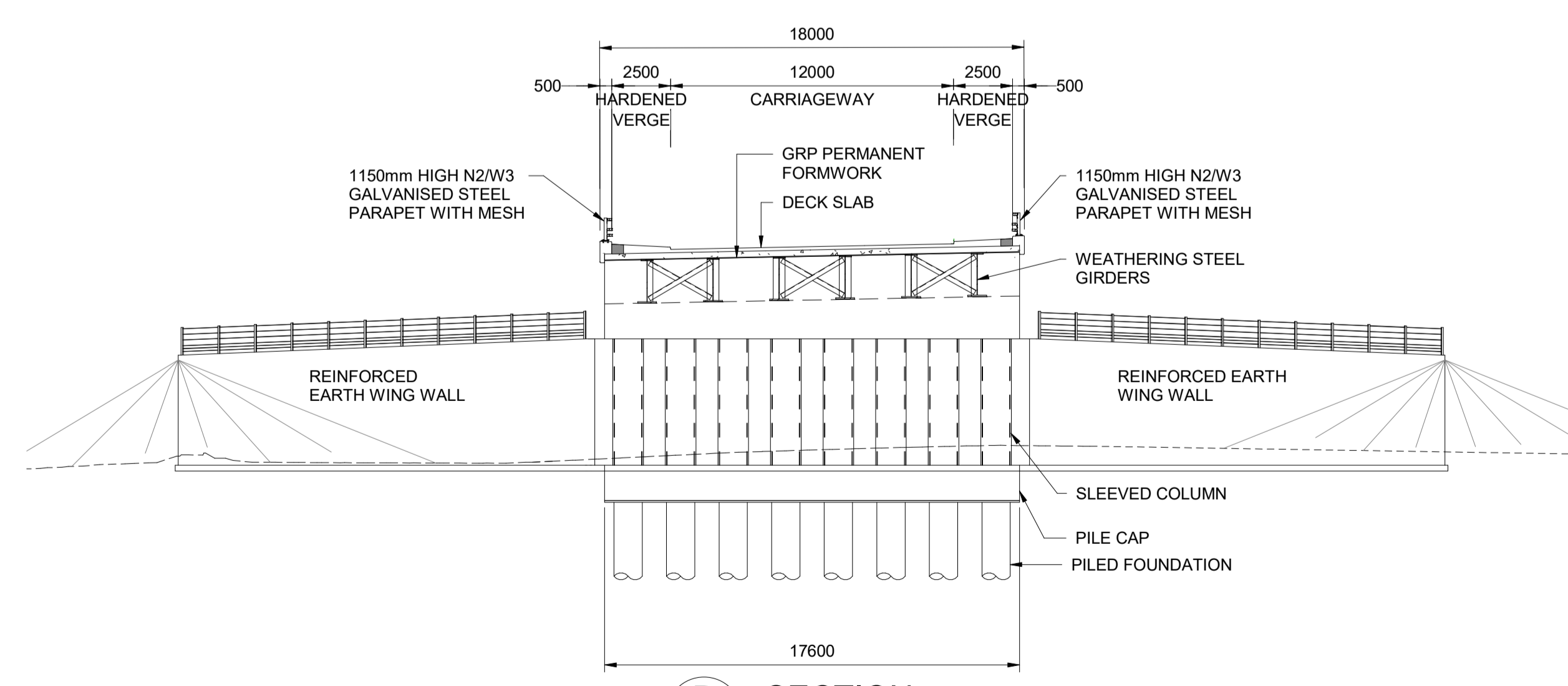
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 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mADD). DIMENSIONS AND LEVELS ARE SHOWN INDICATIVELY.
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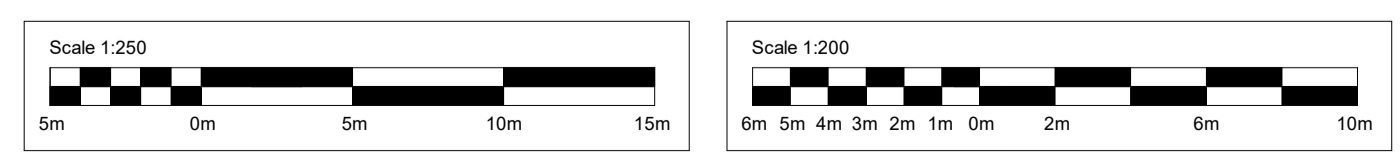
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EA	- EAST ABUTMENT



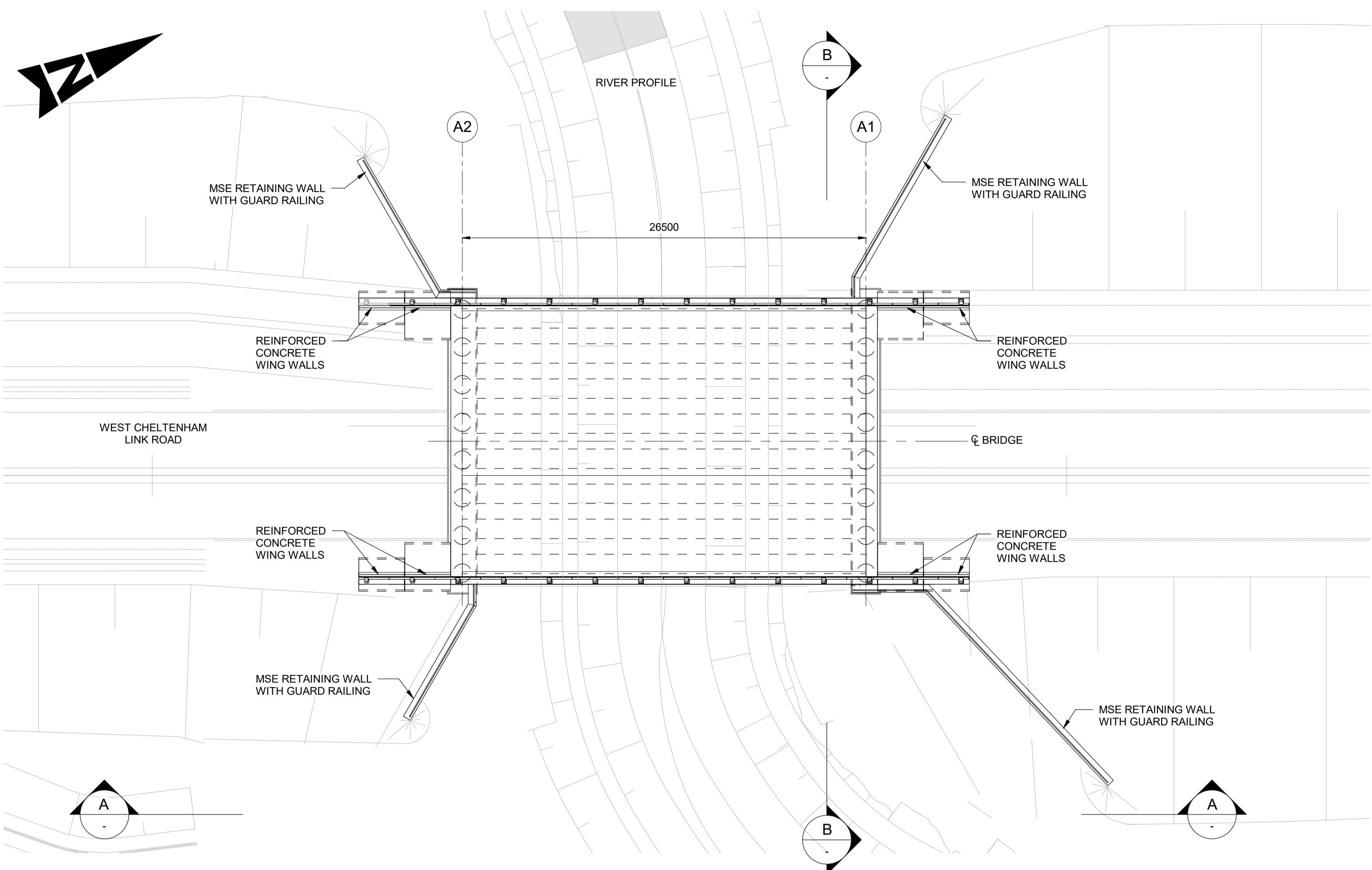
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B SECTION
SCALE 1 : 200



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A1	C01	AP	HT	CR	LJ	15/12/23
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M5 J10 Improvements Scheme						
Drawing Title						
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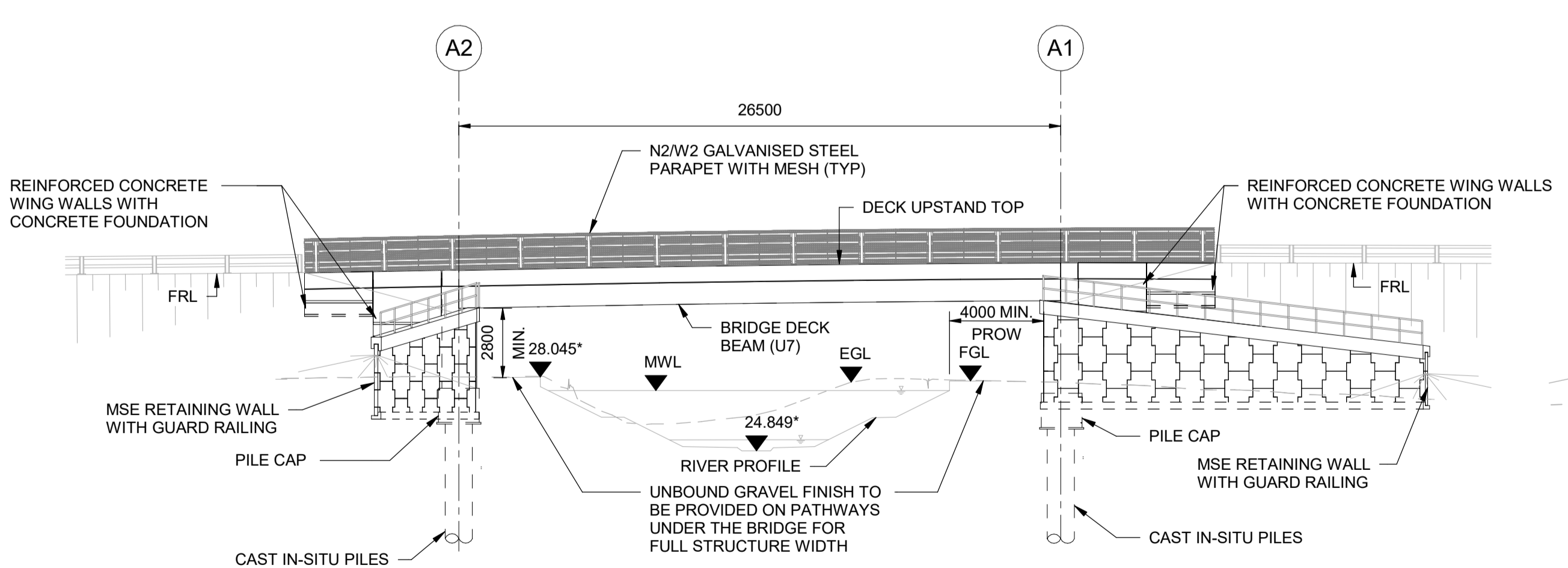


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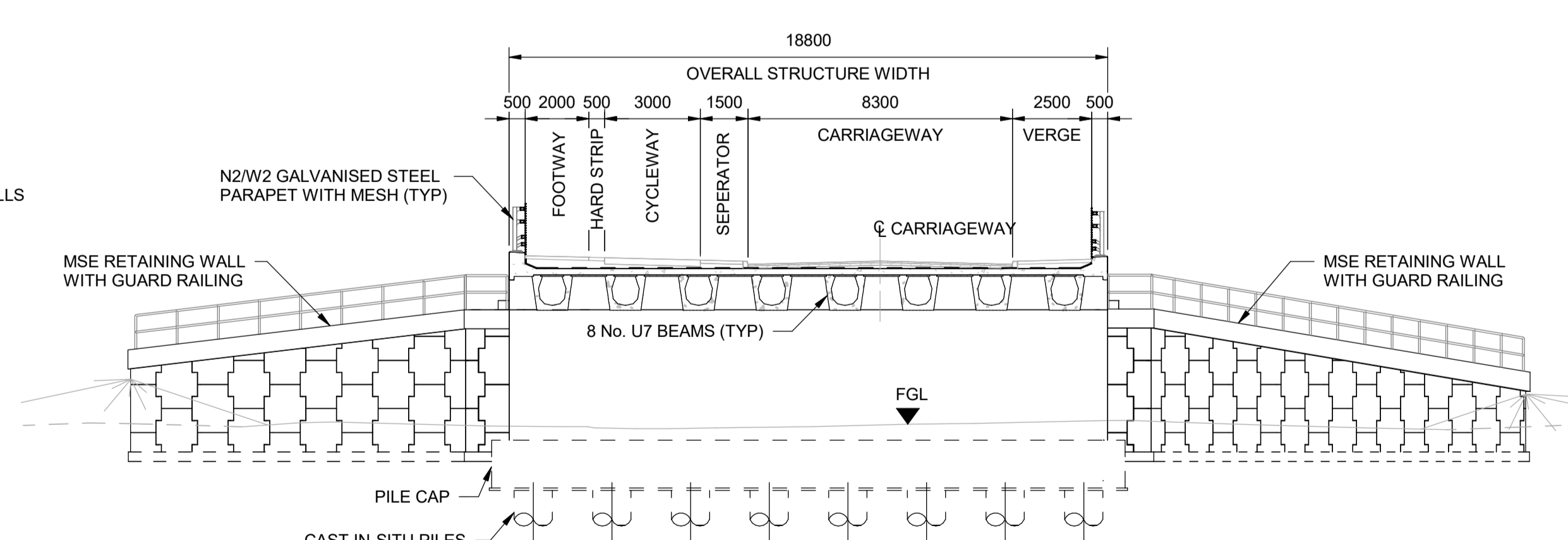
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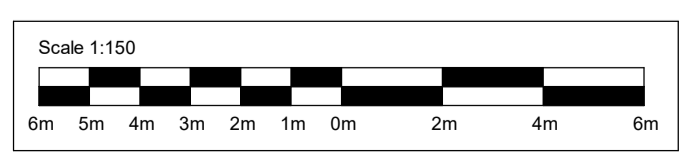
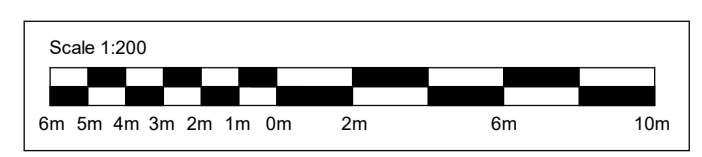
FGL	- FINISHED GROUND LEVEL
FRL	- FINISHED ROAD LEVEL
TYP	- TYPICAL
EGL	- EXISTING GROUND LEVEL
MWL	- MAXIMUM WATER LEVEL
CL	- CENTERLINE



A ELEVATION
1 : 200



B SECTION
1 : 150



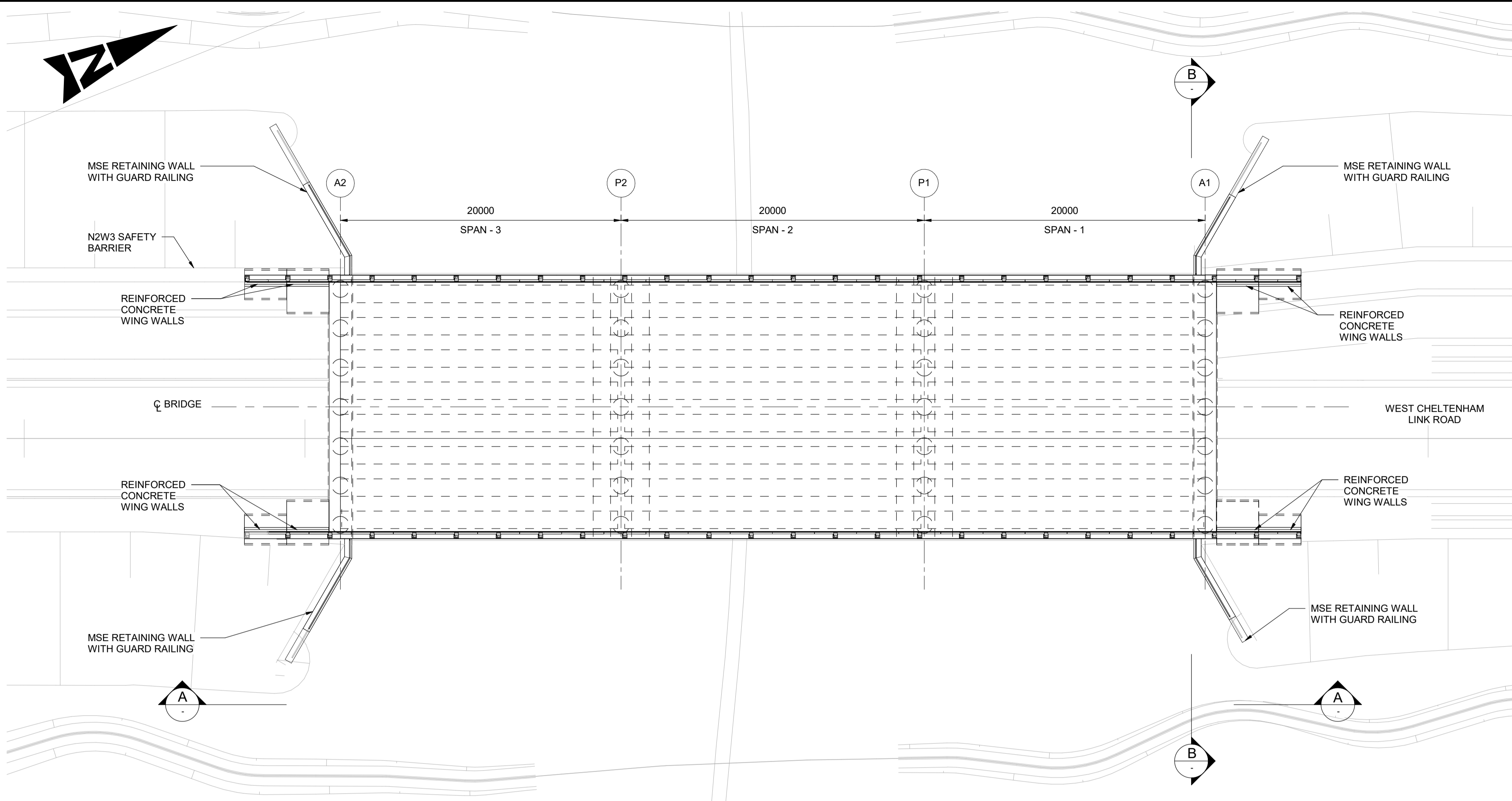
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C02	DV	SA	CJ	BM	18/11/24
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FIRST SUBMISSION						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AP	HT	CR	LJ	15/12/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title
M5 J10 Improvements Scheme

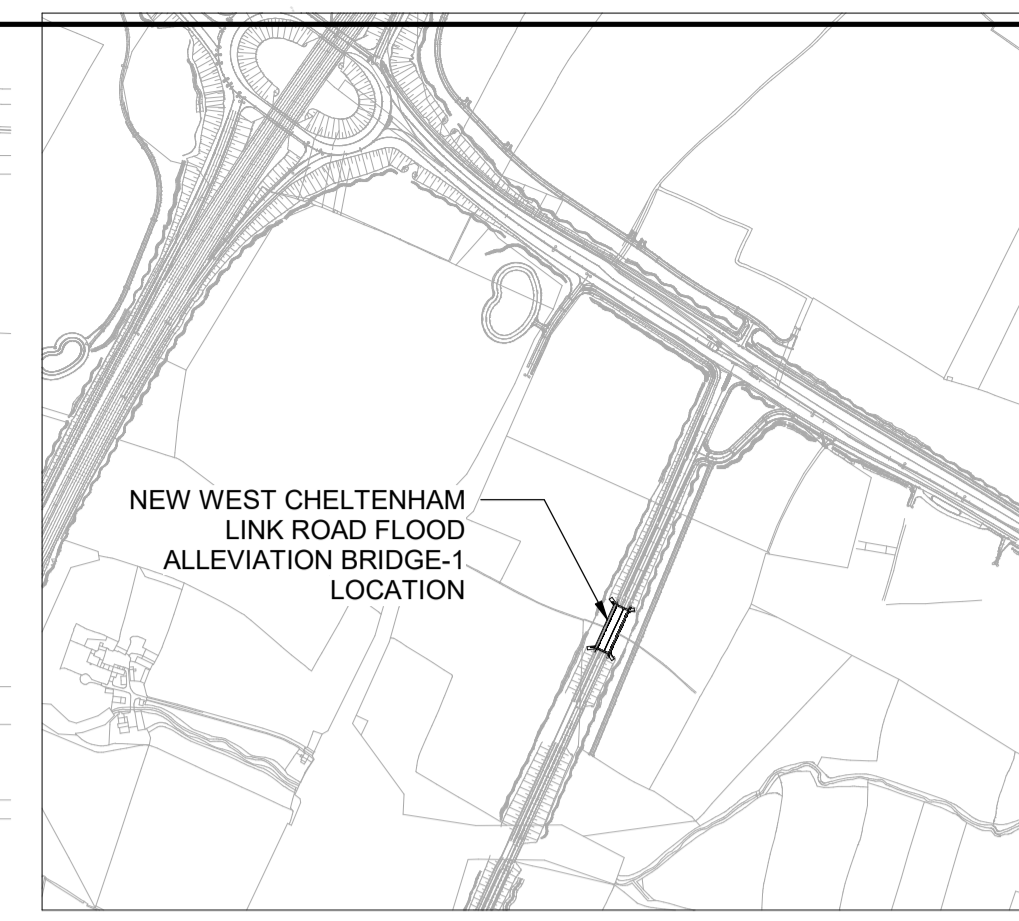
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**STRUCTURAL DETAILS
NEW WEST CHELTENHAM LINK ROAD
RIVER CHELT BRIDGE
SHEET 4 OF 12**

Drawing Number
TR010063/APP/2.10

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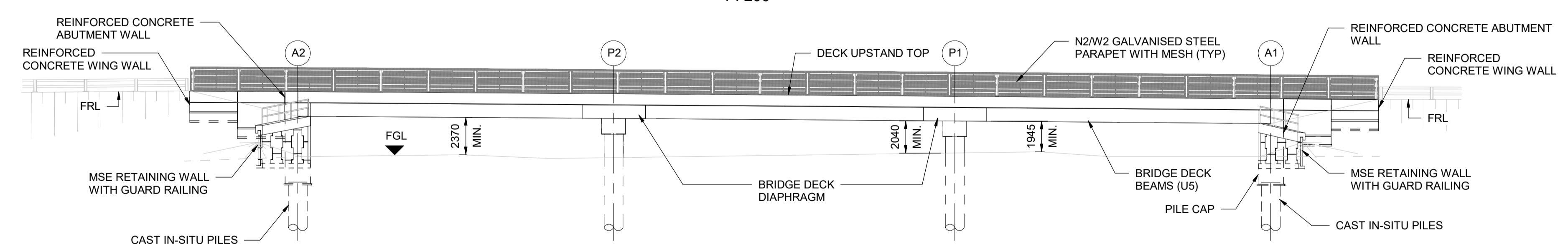


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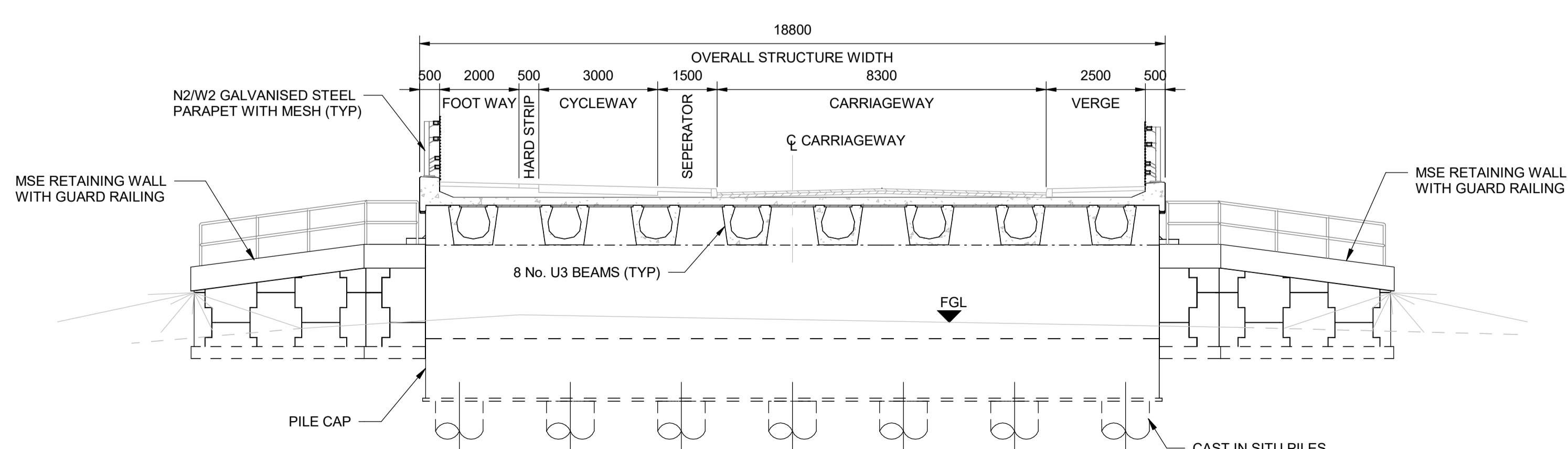
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ABBREVIATION:

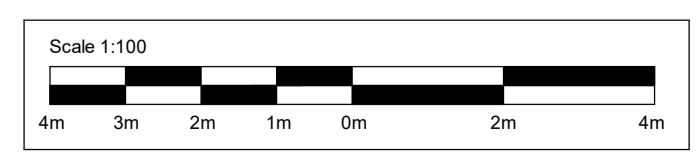
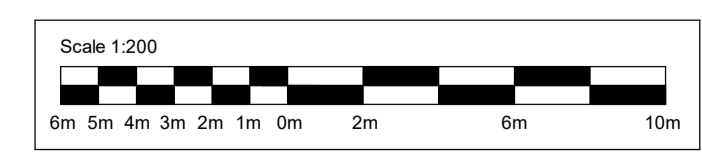
FGL	- FINISHED GROUND LEVEL
FRL	- FINISHED ROAD LEVEL
TYP	- TYPICAL
C	- CENTERLINE



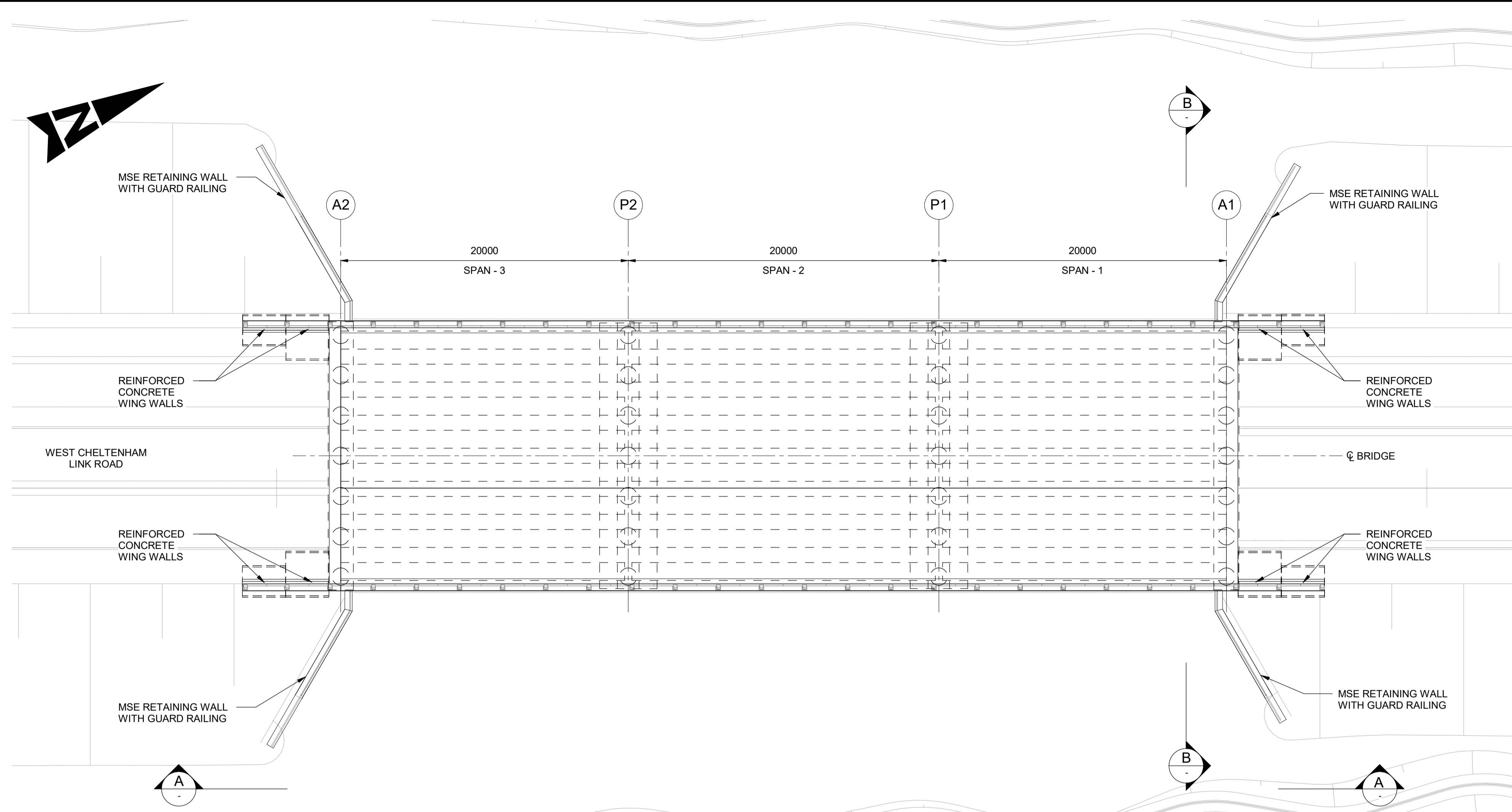
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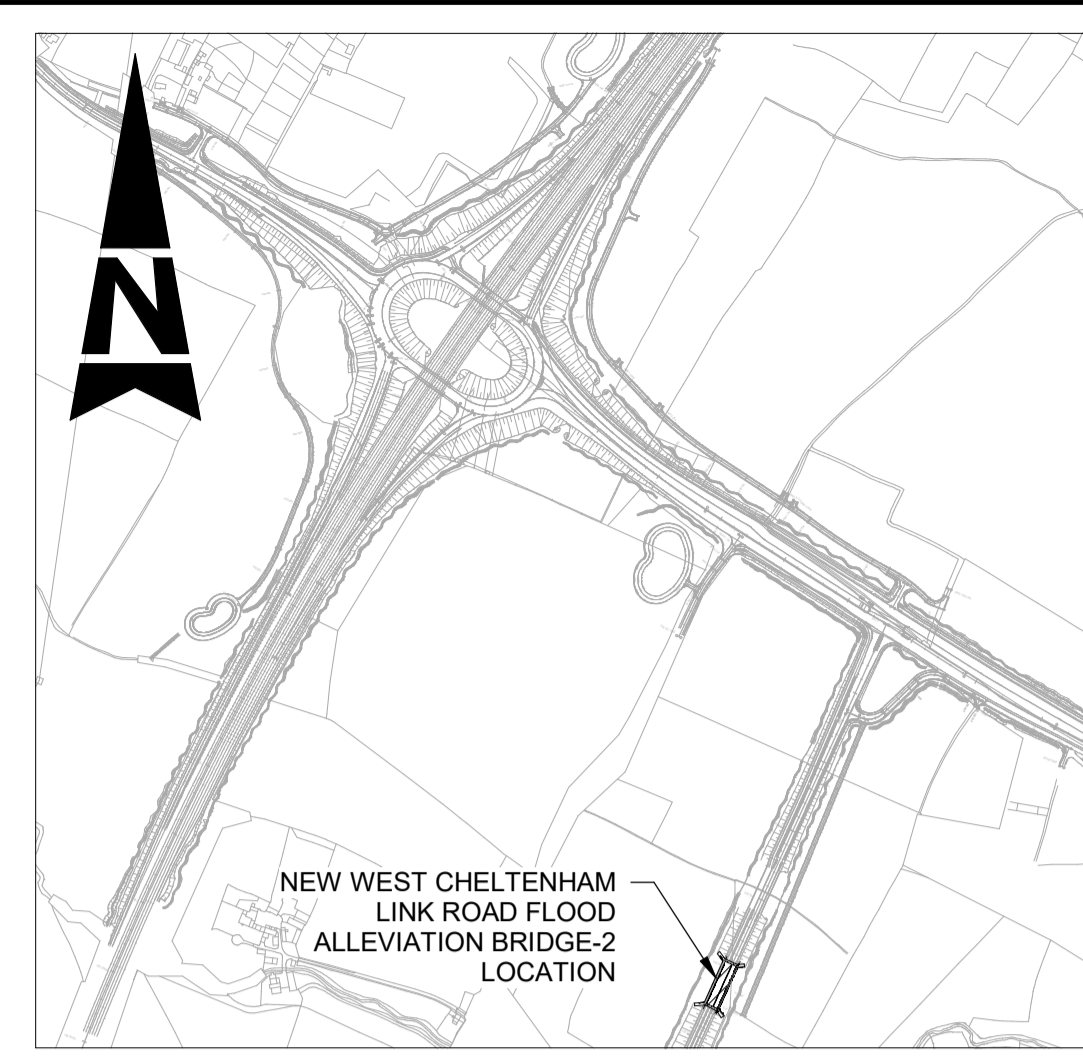
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Description									
CHANGE APPLICATION 2 AMENDMENTS INCLUDED									
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date			
A1	C02	DV	SA	CJ	BM	18/11/24			
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FIRST SUBMISSION									
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date			
A1	C01	AP	HT	CR	LJ	15/12/23			
Drawing Suitability						Status			
APPROVED - PUBLISHED						A1			
Project Title									
M5 J10 Improvements Scheme									
Drawing Title									
STRUCTURAL DETAILS NEW WEST CHELTENHAM LINK ROAD FLOOD ALLEVIATION BRIDGE-1 SHEET 5 OF 12									
Drawing Number									
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PLAN
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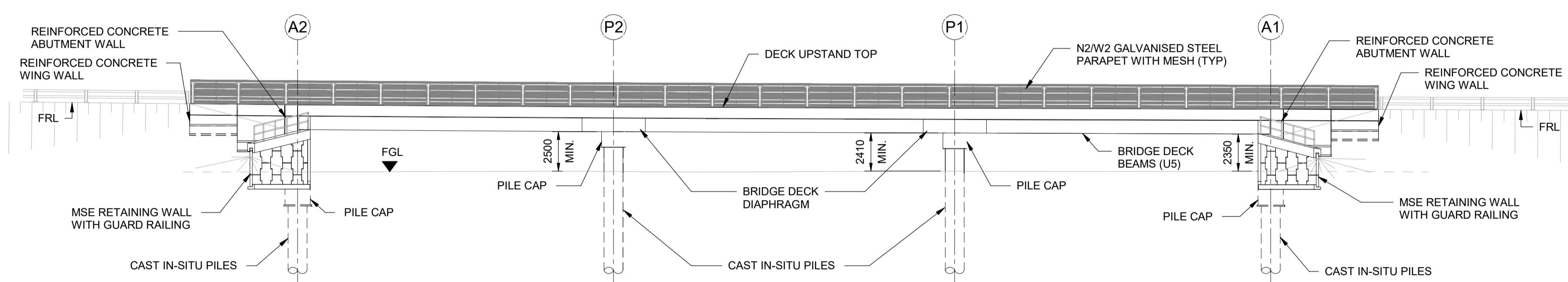


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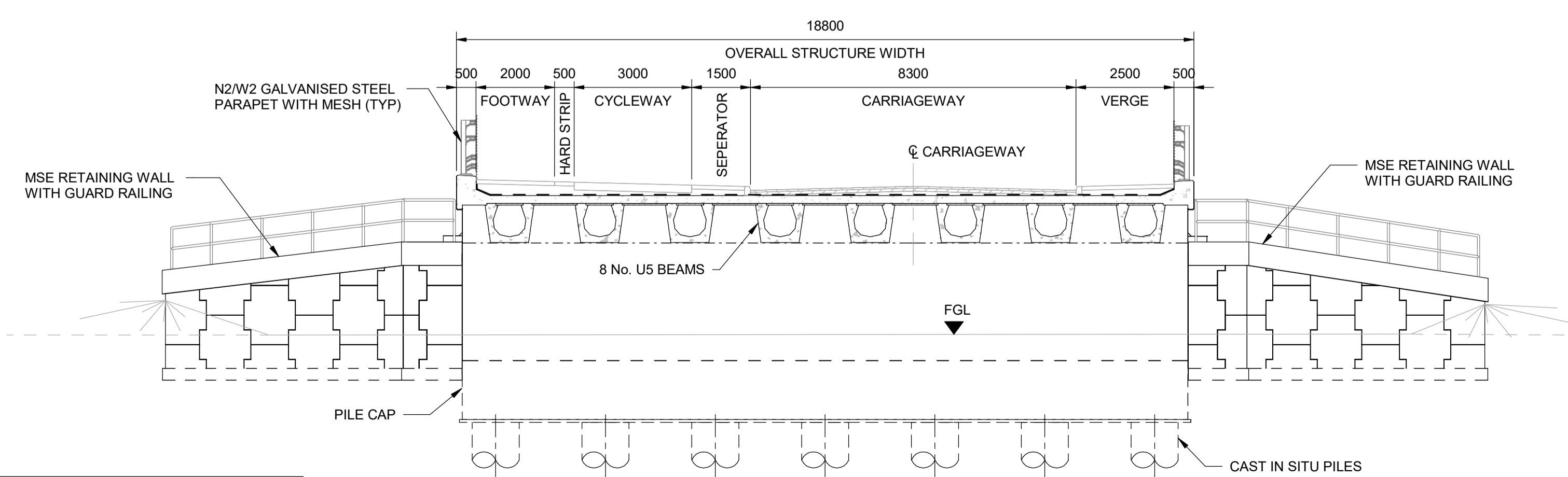
- NOTES:**
1. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH TR010063/APP/2.10 ENGINEERING SECTION DRAWINGS (PLAN AND PROFILES) AND THE DEVELOPMENT CONSENT ORDER.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD). DIMENSIONS AND LEVELS ARE SHOWN INDICATIVELY.
 3. FULL LENGTH OF PILES NOT SHOWN.
 4. DRAINAGE NOT SHOWN.

ABBREVIATION:

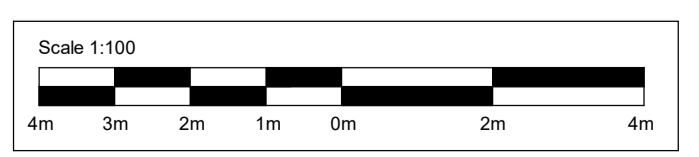
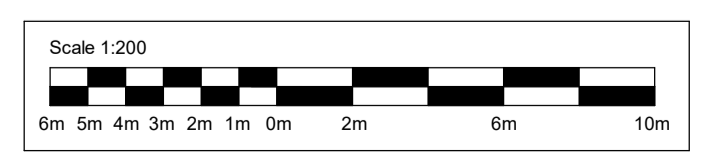
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FRL	- FINISHED ROAD LEVEL
TYP	- TYPICAL
CL	- CENTERLINE



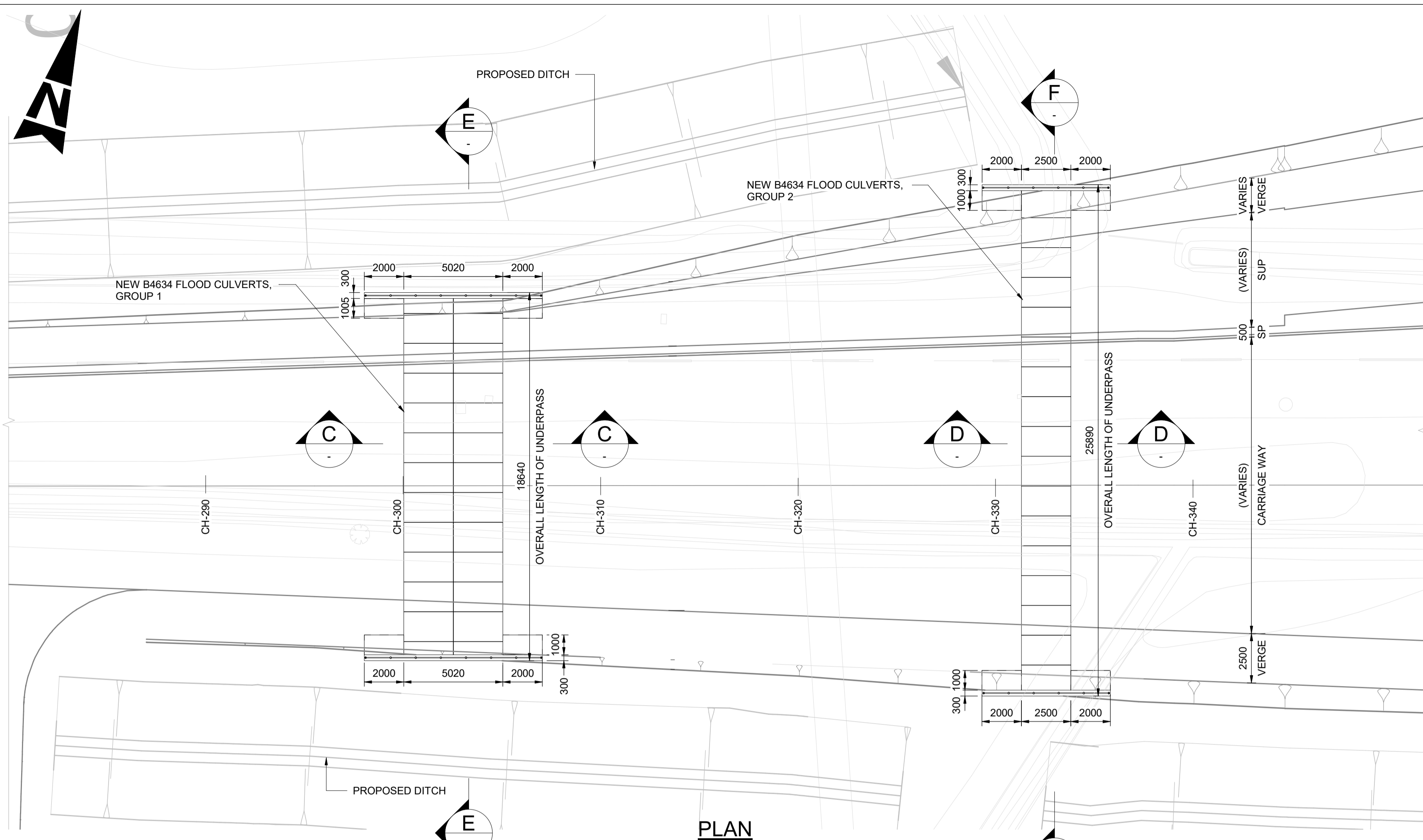
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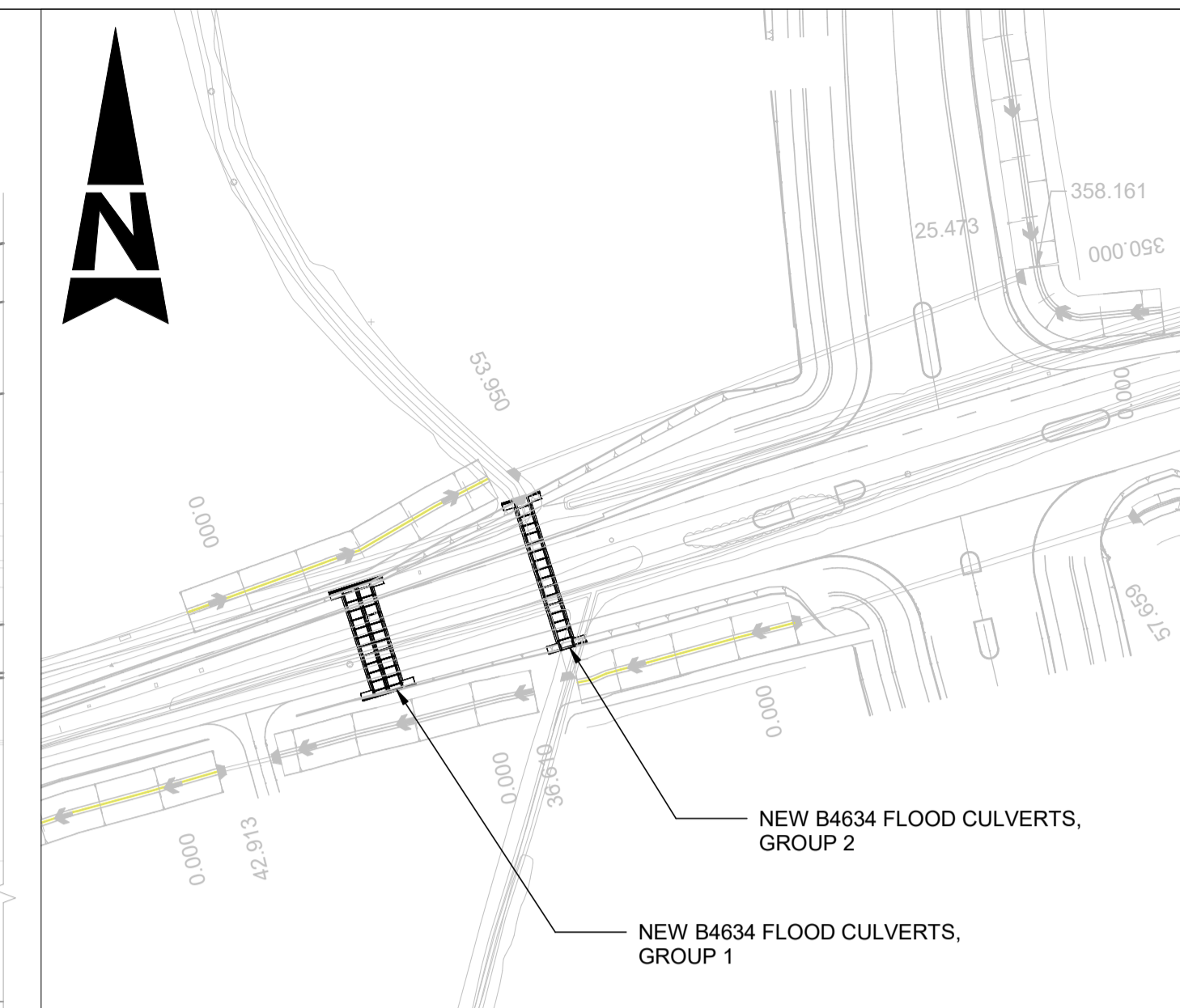
B SECTION
1 : 100



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Description									
CHANGE APPLICATION 2 AMENDMENTS INCLUDED									
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date			
A1	C02	DV	SA	CJ	BM	18/11/24			
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FIRST SUBMISSION									
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A1	C01	AP	HT	CR	LJ	15/12/23			
Drawing Suitability						Status			
APPROVED - PUBLISHED						A1			
Project Title									
M5 J10 Improvements Scheme									
Drawing Title									
STRUCTURAL DETAILS NEW WEST CHELTENHAM LINK ROAD FLOOD ALLEVIATION BRIDGE-2 SHEET 6 OF 12									
Drawing Number									
TR010063/APP/2.10									
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PLAN
SCALE 1:150



LOCATION PLAN
SCALE 1:1000

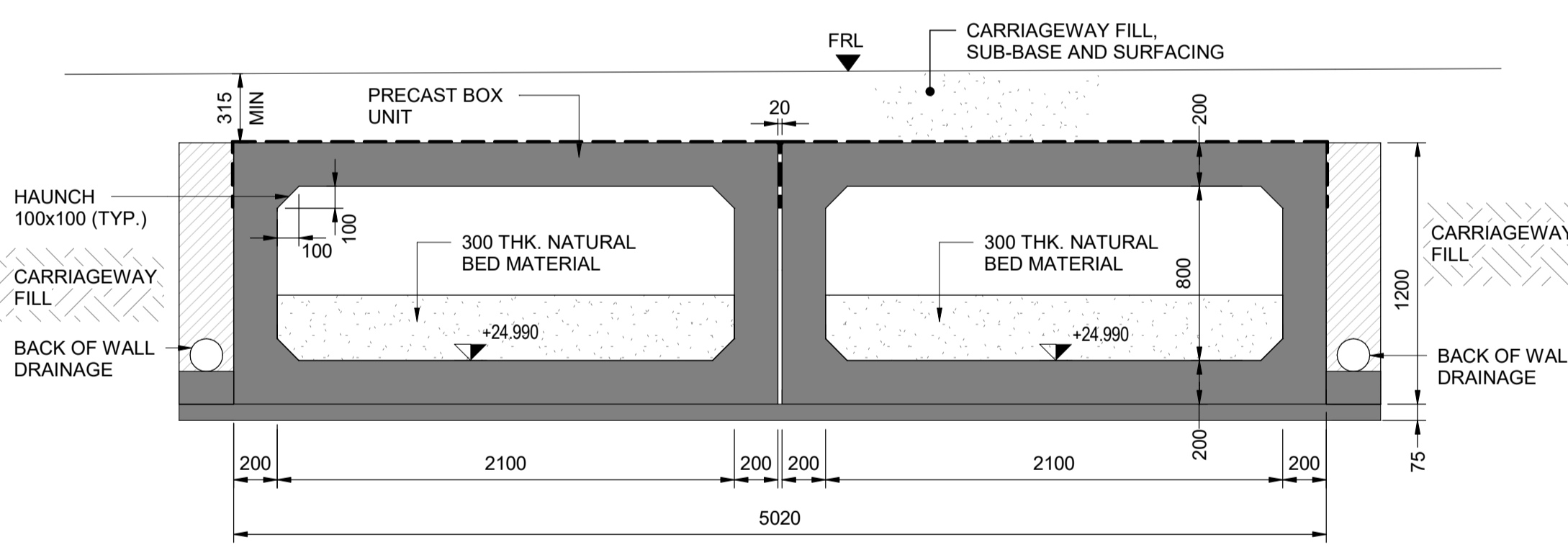
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 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD). DIMENSION AND LEVELS ARE SHOWN INDICATIVELY.

LEGEND:

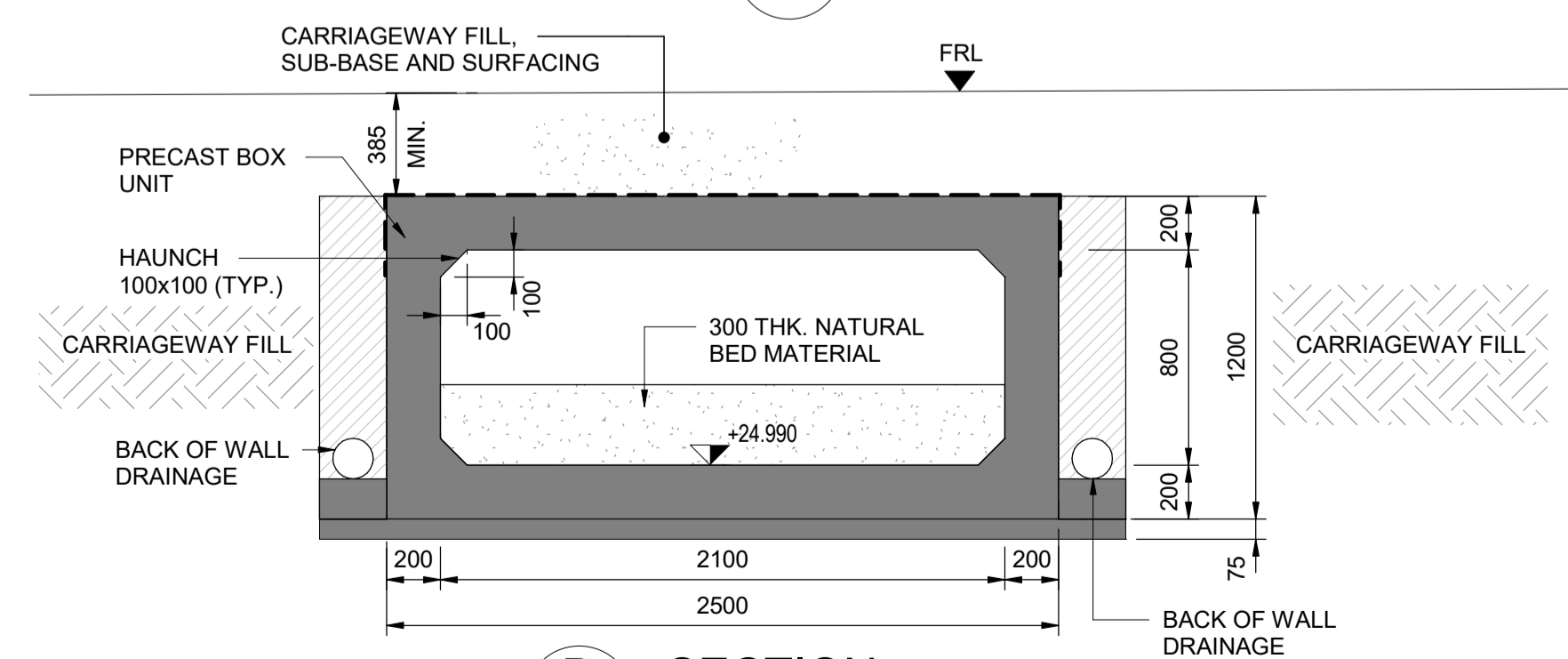
— EXISTING GROUND PROFILE
— PROPOSED GROUND PROFILE

ABBREVIATION:

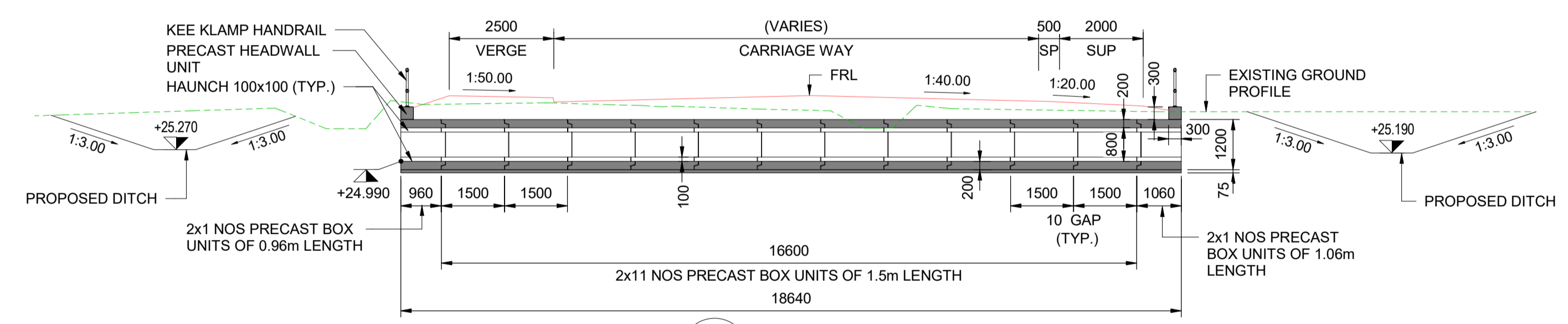
FRL - FINISHED ROAD LEVEL
THK - THICK
TYP. - TYPICAL
MIN. - MINIMUM
SUP - SHARED USE PATH
SP - SEPARATOR



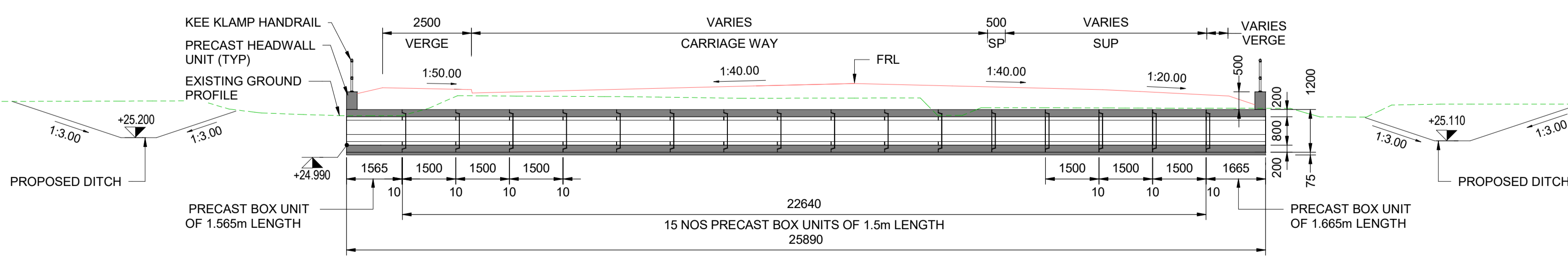
C SECTION
SCALE 1:25



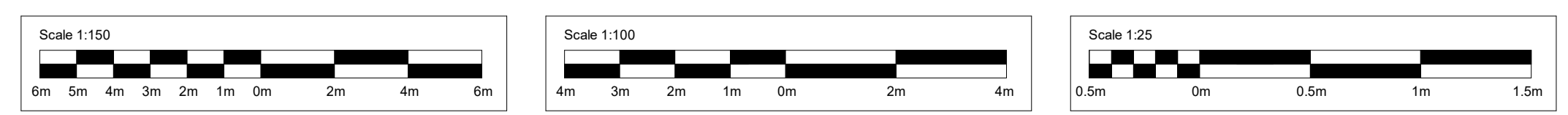
D SECTION
SCALE 1:25



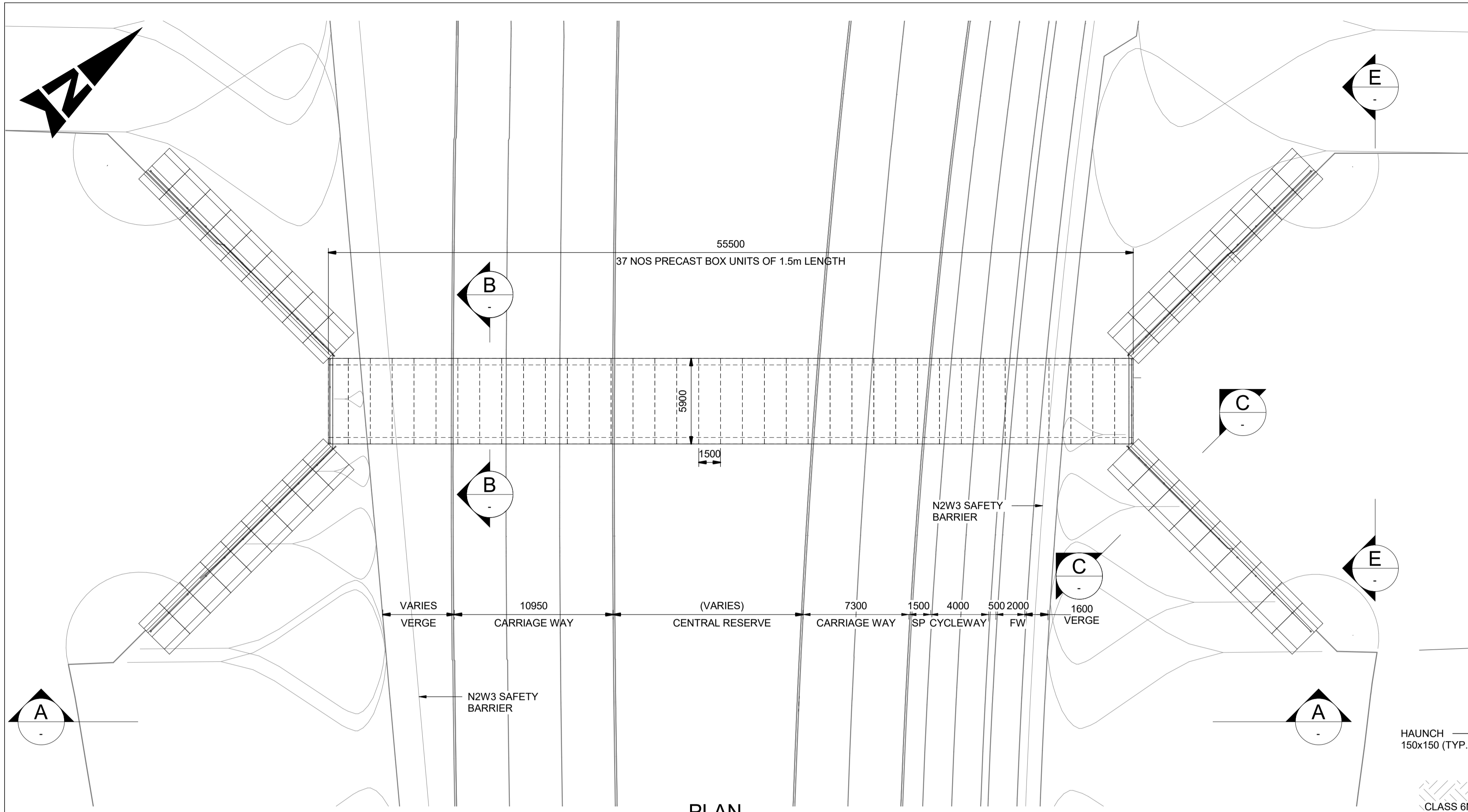
E SECTION
SCALE 1:100



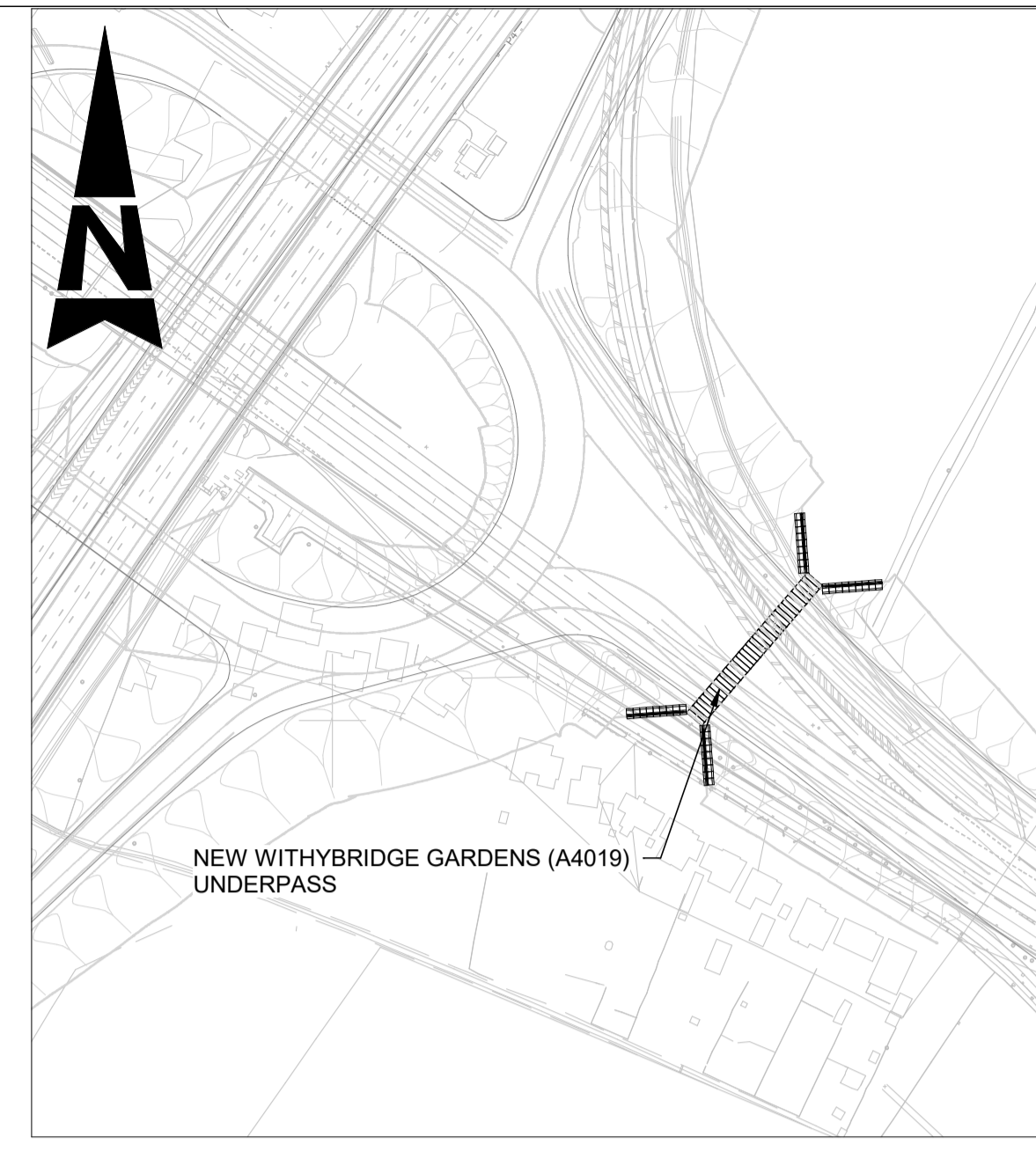
F SECTION
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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FIRST SUBMISSION						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AP	HT	CR	LJ	15/12/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1
Project Title						
M5 J10 Improvements Scheme						
Drawing Title						
STRUCTURAL DETAILS B4634 FLOOD CULVERTS, GROUP 1 & 2 SHEET 7 OF 12						
Drawing Number						
TR010063/APP/2.10						
Original Size:	A1	Scale:	As Shown	Project Ref. No.:	5197035	Sheet: 7 of 12 Rev: C01



PLAN
SCALE 1 : 200

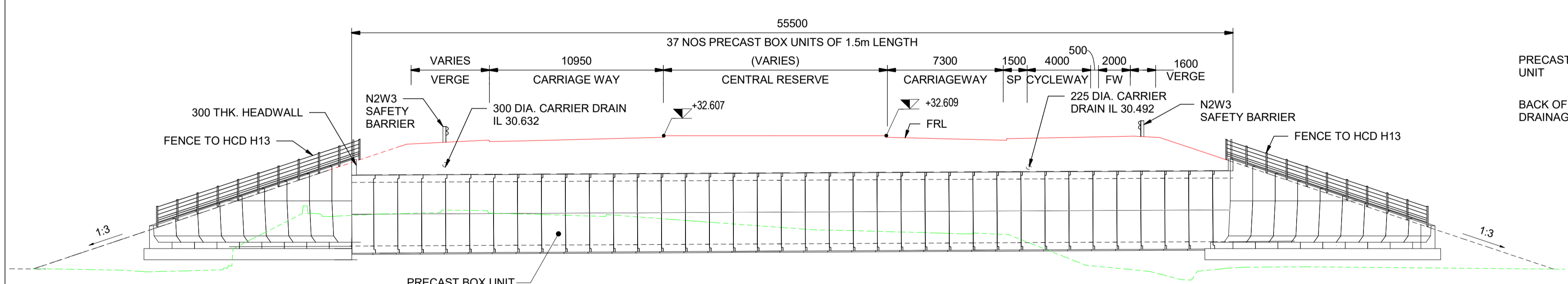


LOCATION PLAN
SCALE 1 : 2000

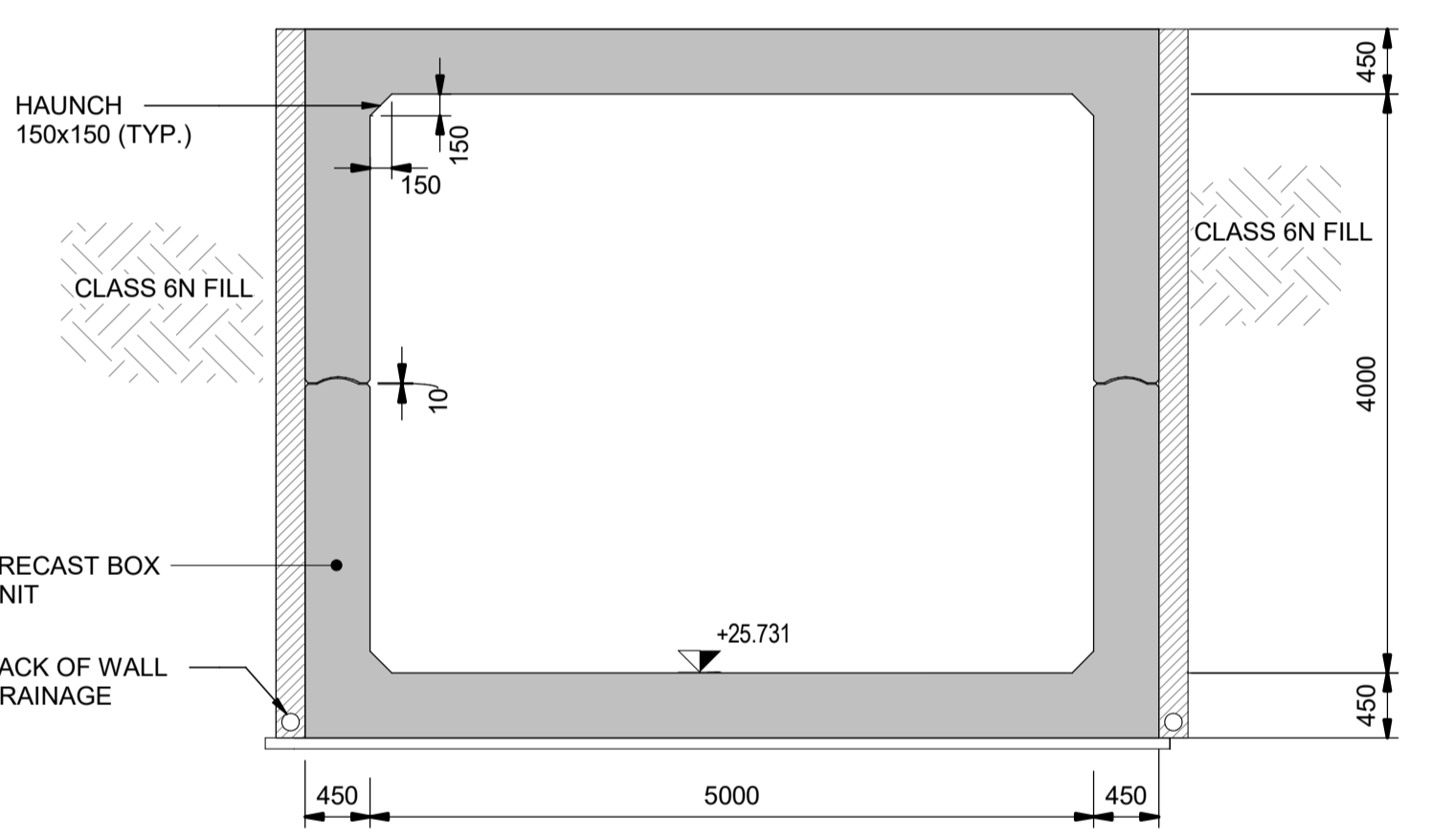
- NOTES:**
1. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH TR010063/APP/2.10 ENGINEERING SECTION DRAWINGS (PLAN AND PROFILES) AND THE DEVELOPMENT CONSENT ORDER.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD). DIMENSIONS AND LEVELS ARE SHOWN INDICATIVELY.
 3. EXISTING DITCHES TO BE REALIGNED TO SUIT NEW INVERT LEVELS.



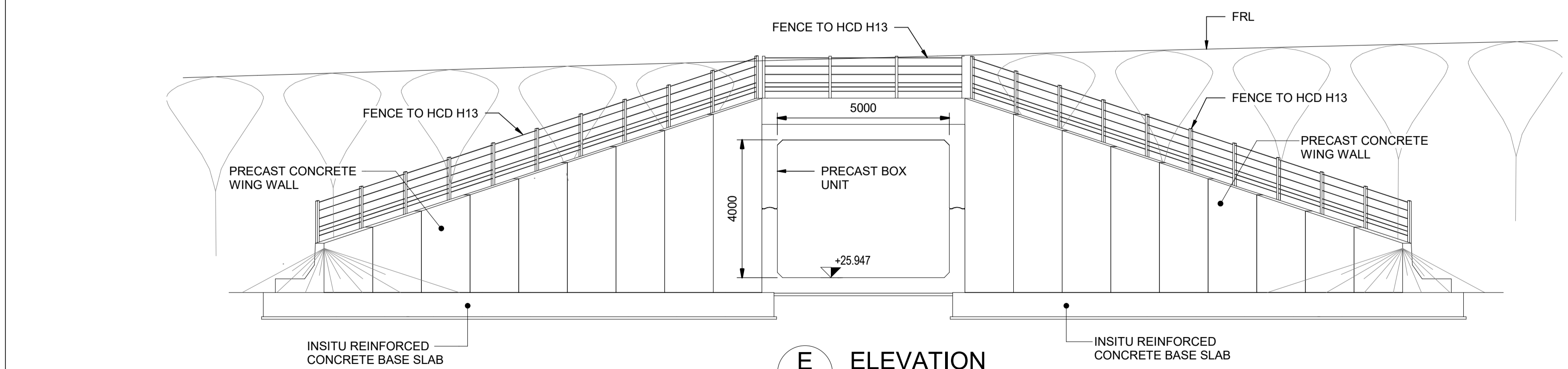
ABBREVIATION:
SP - SEPARATION
FW - FOOTWAY
FRL - FINISHED ROAD LEVEL



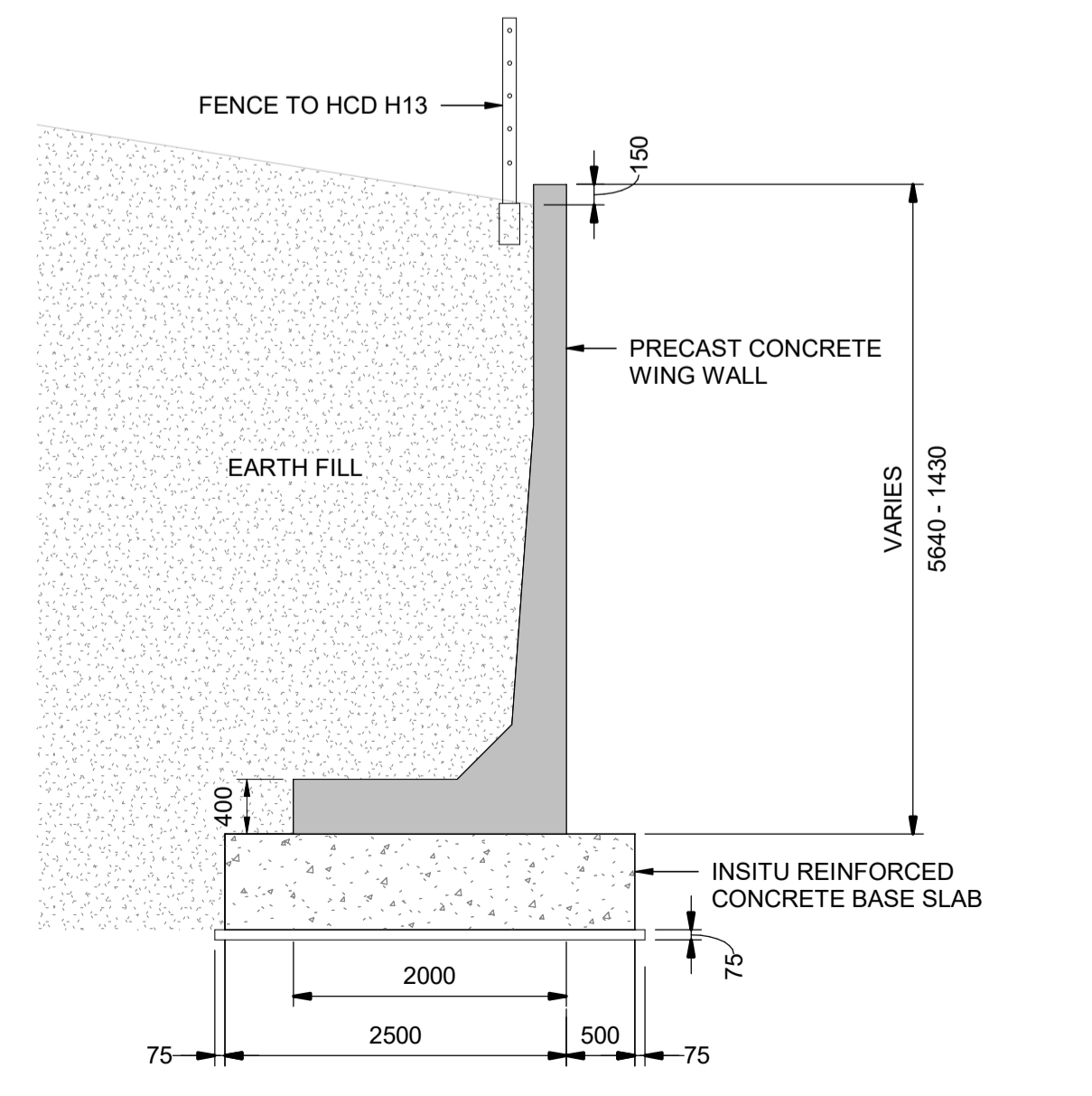
A ELEVATION
SCALE 1 : 200



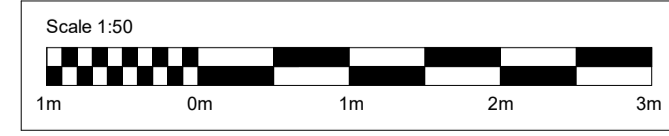
B SECTION
SCALE 1 : 50



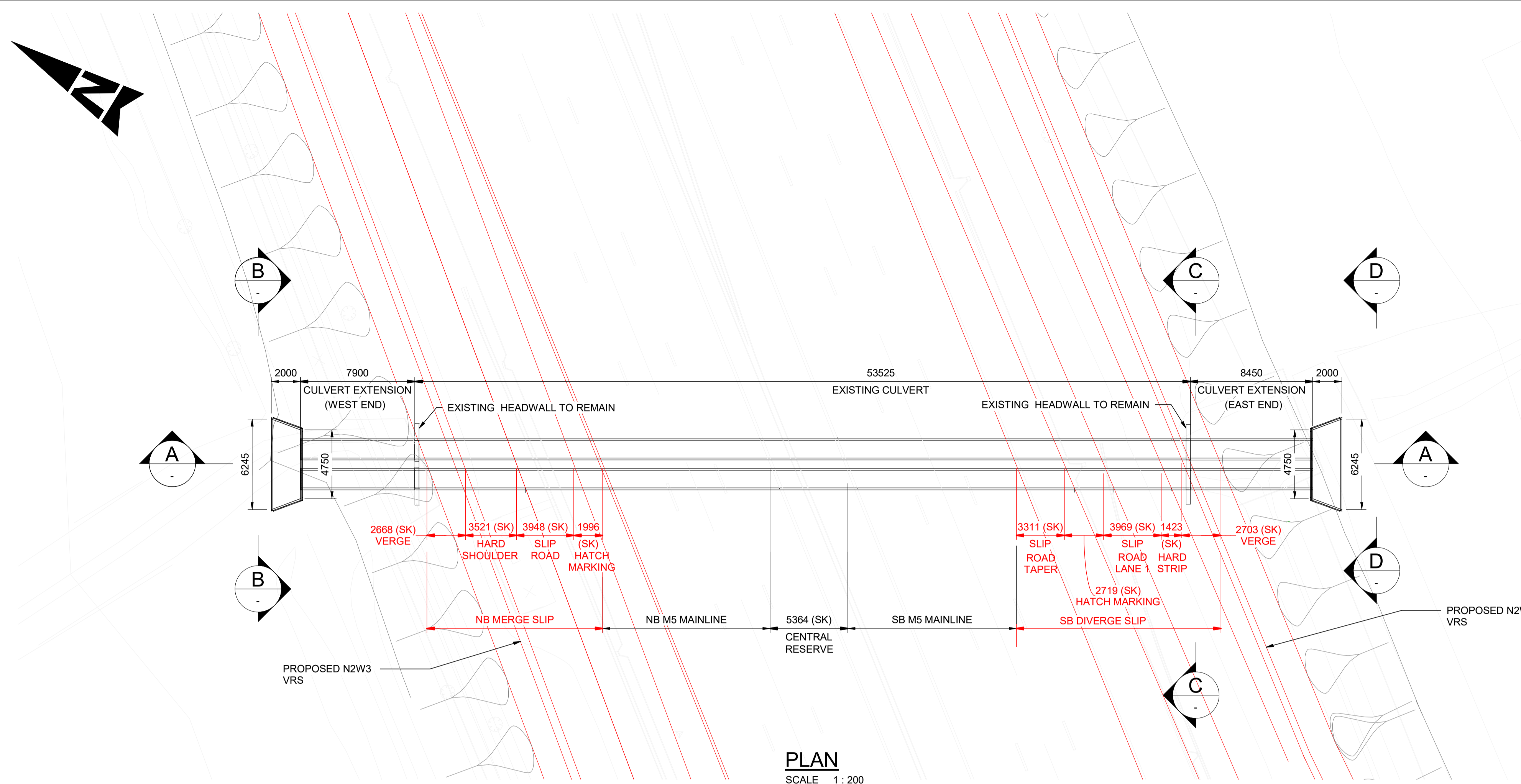
E ELEVATION
SCALE 1 : 100



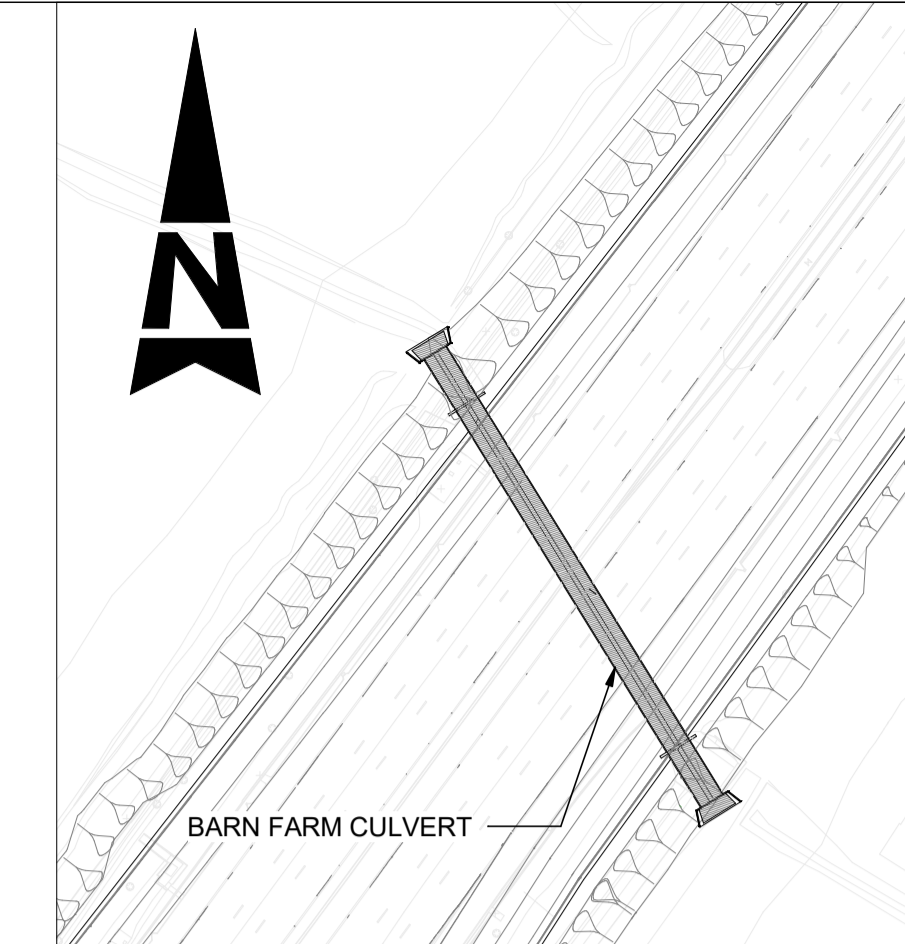
C SECTION
SCALE 1 : 50



Description						
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FIRST SUBMISSION						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AP	HT	CR	LJ	15/12/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1
Project Title						
M5 J10 Improvements Scheme						
Drawing Title						
STRUCTURAL DETAILS WITHYBRIDGE GARDENS (A4019) UNDERPASS SHEET 8 OF 12						
Drawing Number						
TR010063/APP/2.10						
Original Size:	A1	Scale:	As Shown	Project Ref. No.:	5197035	Sheet: 8 of 12 Rev: C01



PLAN
SCALE 1 : 200

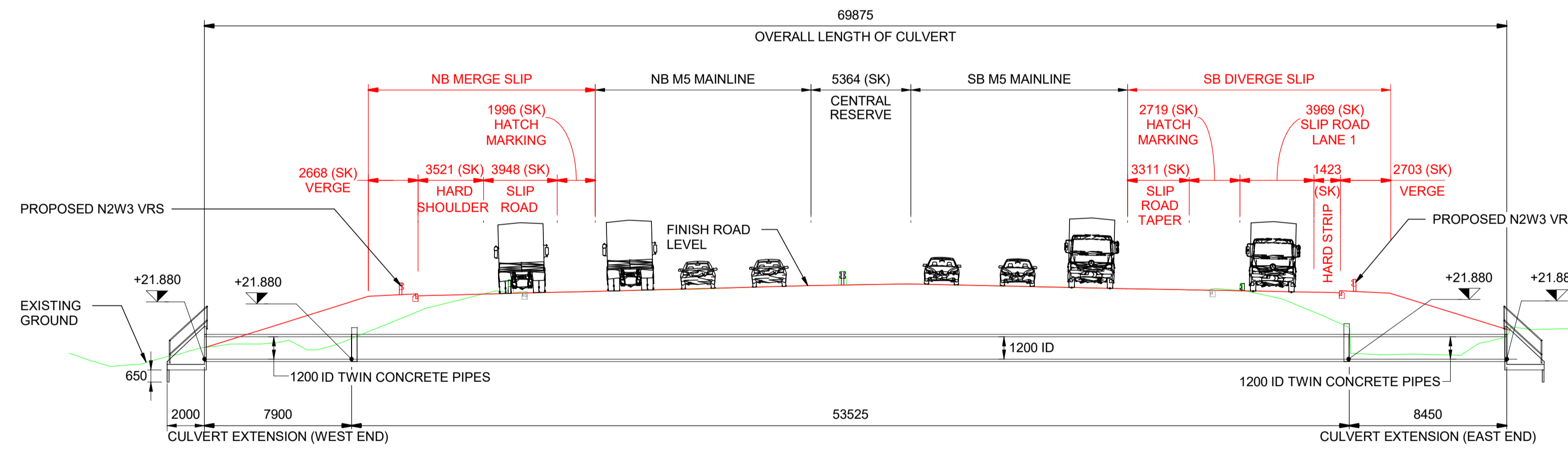


LOCATION PLAN
SCALE 1 : 1000

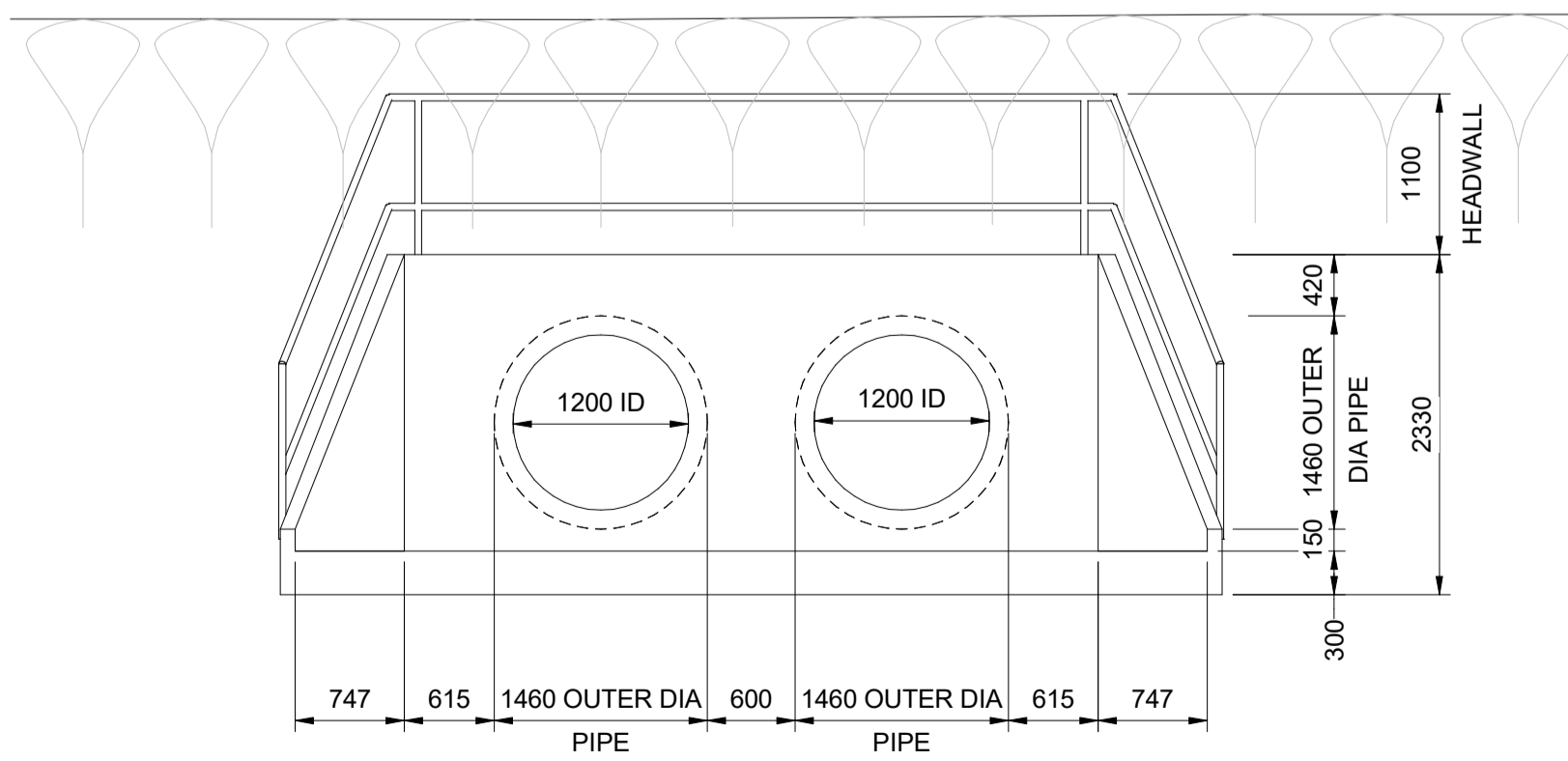
- NOTES:**
1. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH TR010063/APP/2.10 ENGINEERING SECTION DRAWINGS (PLAN AND PROFILES) AND THE DEVELOPMENT CONSENT ORDER.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD). DIMENSIONS AND LEVELS ARE SHOWN INDICATIVELY.
 3. EXISTING DITCHES TO BE REALIGNED TO SUIT NEW INVERT LEVELS.

- LEGEND:**
- EXISTING GROUND PROFILE
 - PROPOSED FEATURES/GROUND PROFILE

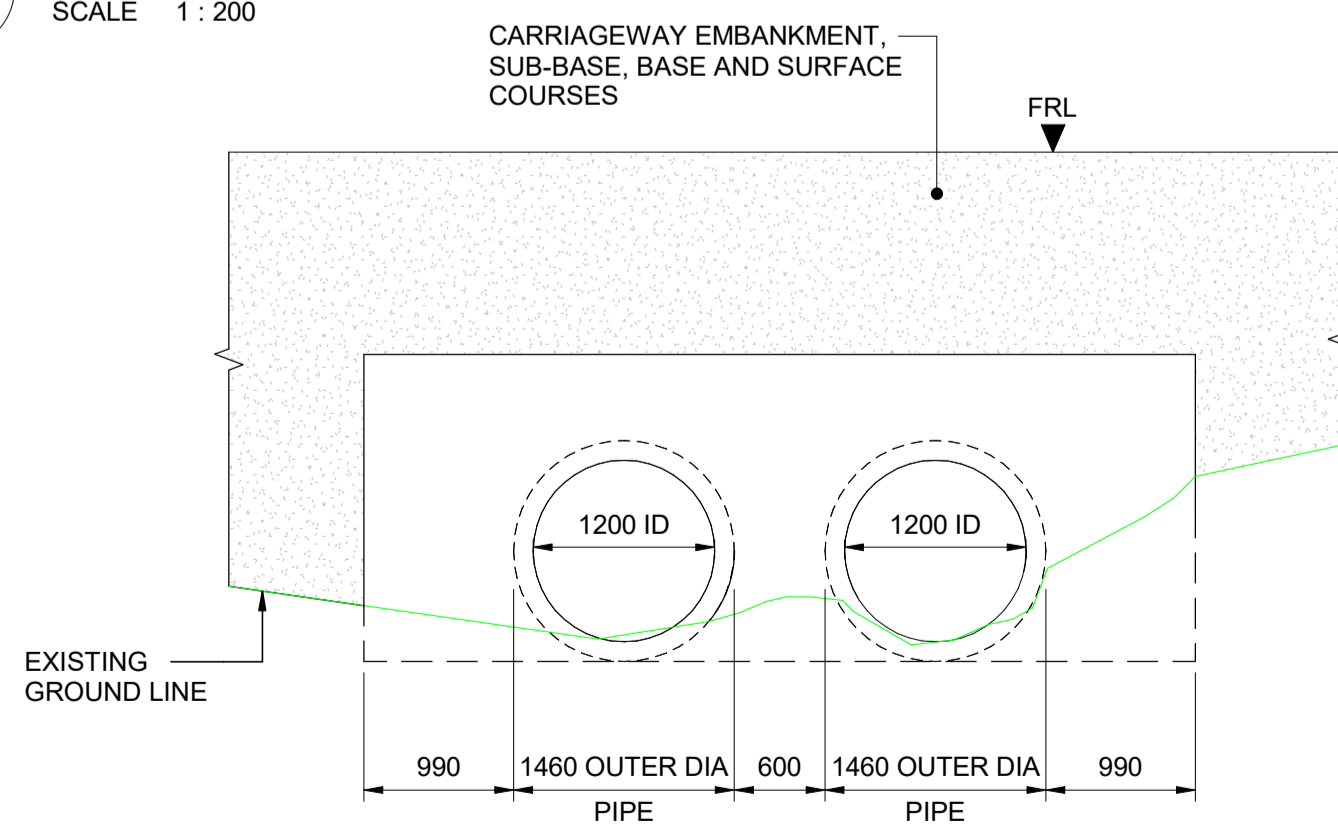
- ABBREVIATION:**
- DIA - DIAMETER
 - ID - INTERNAL DIAMETER
 - VRS - VEHICLE RESTRAINS SYSTEM
 - NB - NORTHBOUND
 - SB - SOUTHBOUND
 - SK - SKEW
 - FRL - FINISHED ROAD LEVEL



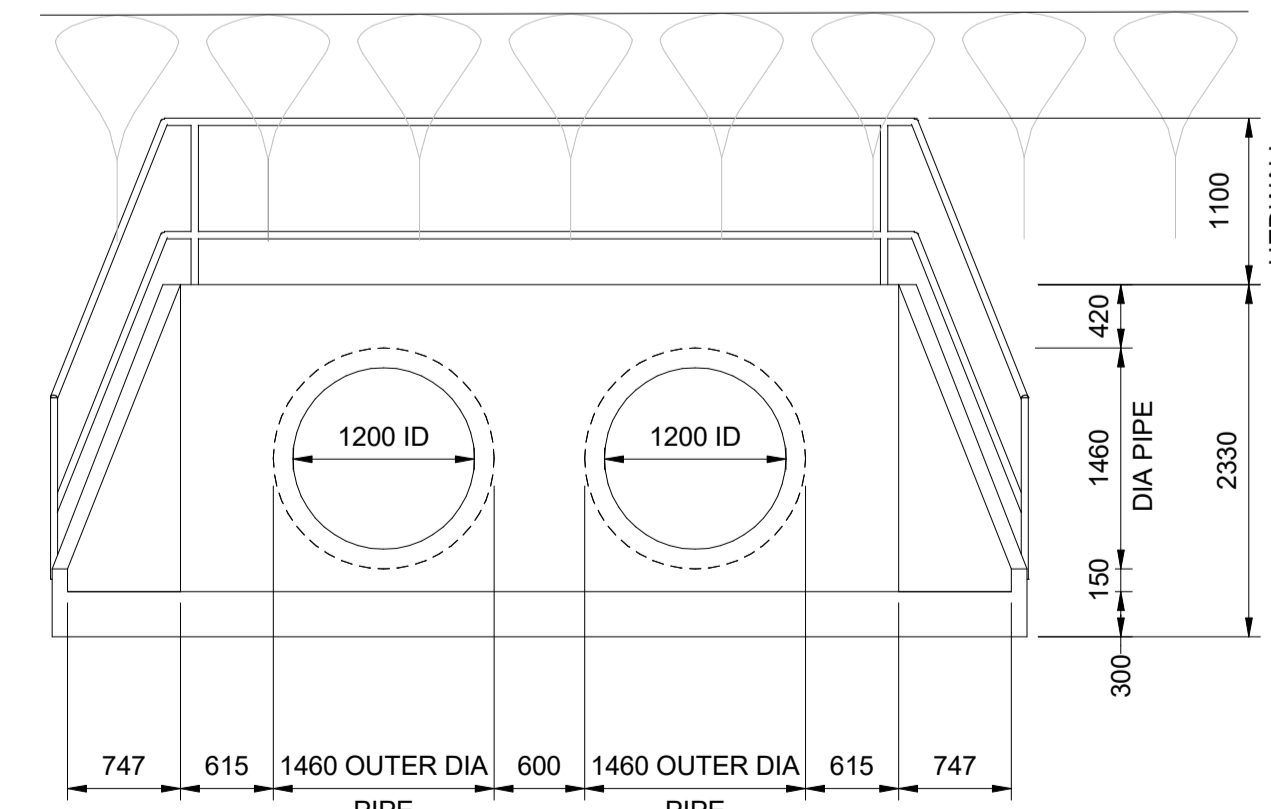
A SECTION
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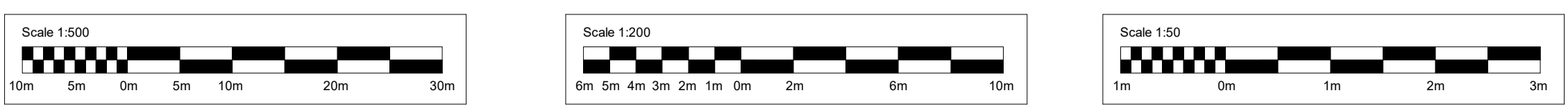
B ELEVATION
SCALE 1 : 50



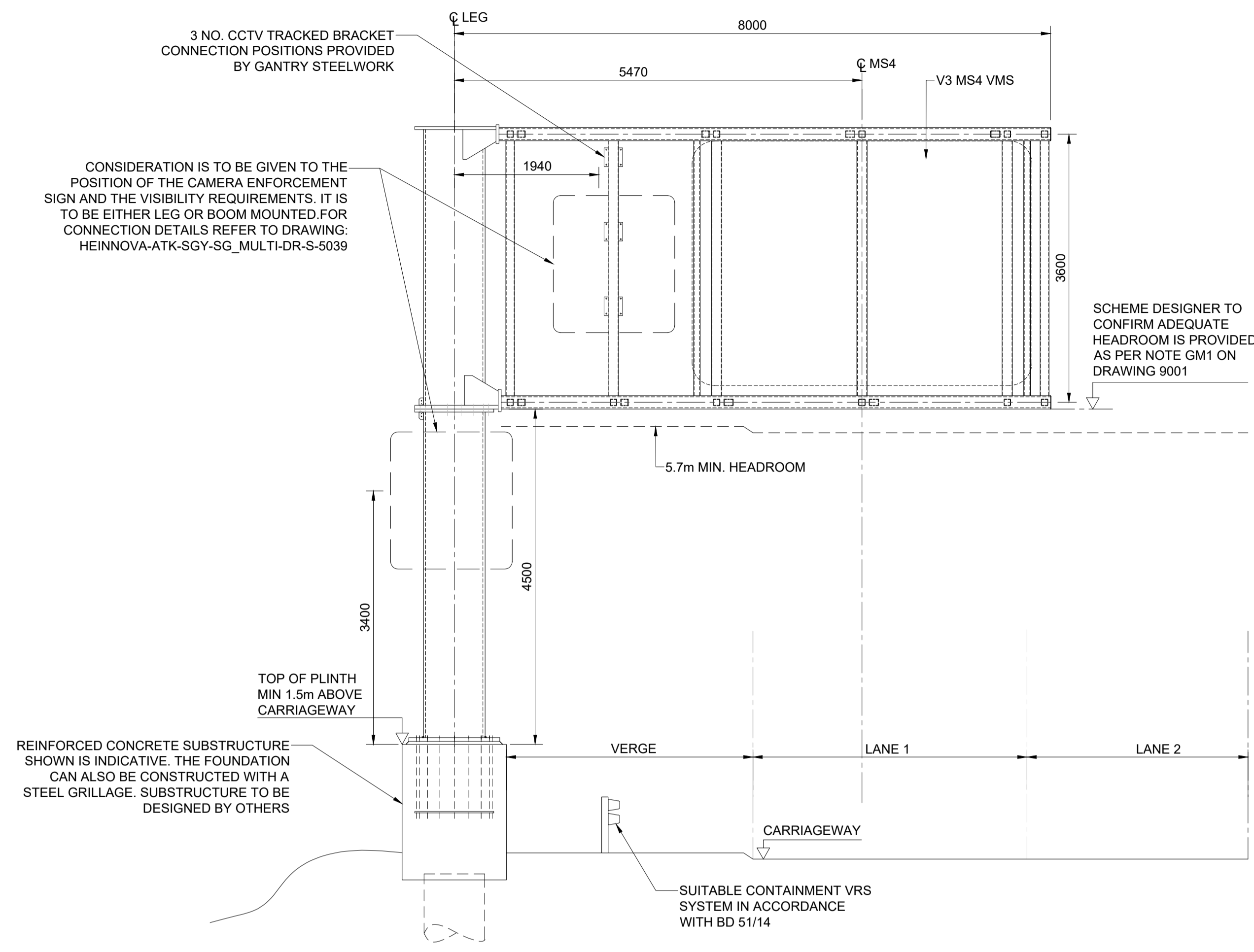
C SECTION
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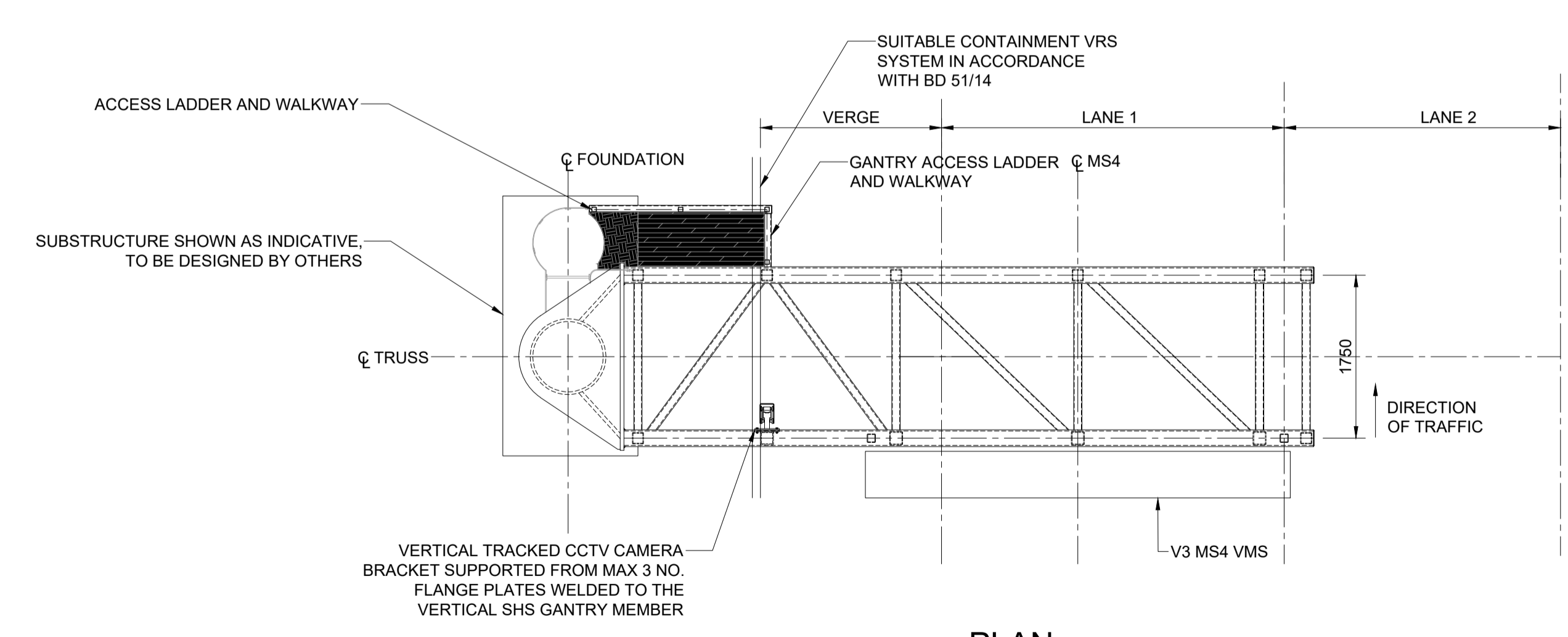
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Description						
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FIRST SUBMISSION						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AP	HT	CR	LJ	15/12/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1
Project Title						
M5 J10 Improvements Scheme						
Drawing Title						
STRUCTURAL DETAILS BARN FARM CULVERT EXTENSION SHEET 10 OF 12						
Drawing Number						
TR010063/APP/2.10						



ELEVATION
SCALE 1:50



PLAN
SCALE 1:50

NOTES

1. THESE PLANS SHOULD BE READ IN CONJUNCTION WITH TR010063/APP/2.10 ENGINEERING SECTION DRAWINGS (PLAN AND PROFILES) AND THE DEVELOPMENT CONSENT ORDER.
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	NONE
Maintenance / Cleaning	NONE
Use	NONE
Decommissioning / Demolition	NONE

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date

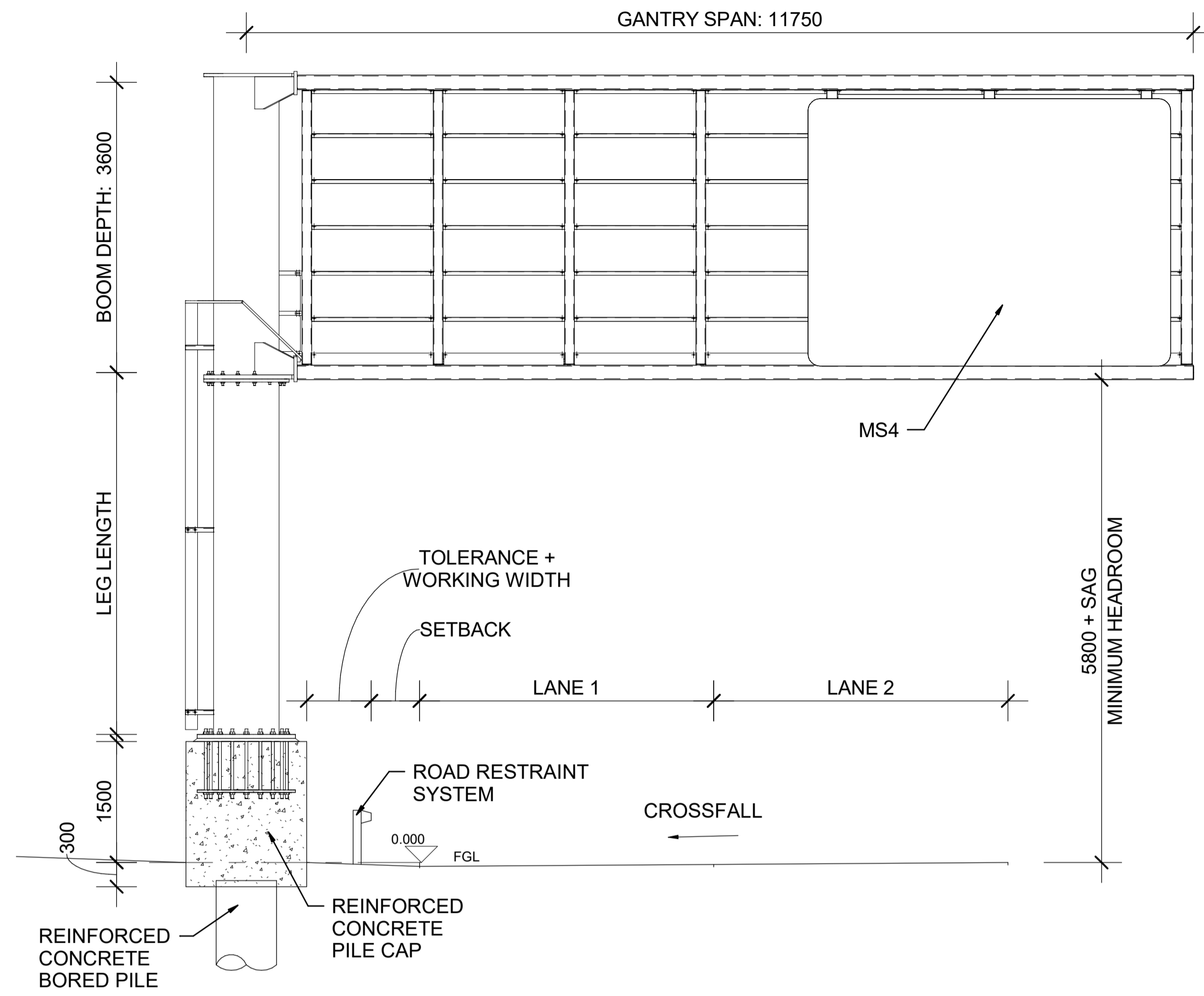
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A1	C01	NKRP	CJ	CCR	BM	14/12/23	
Drawing Suitability							Status
APPROVED - PUBLISHED							A1

Project Title
M5 Junction 10 Improvements Scheme

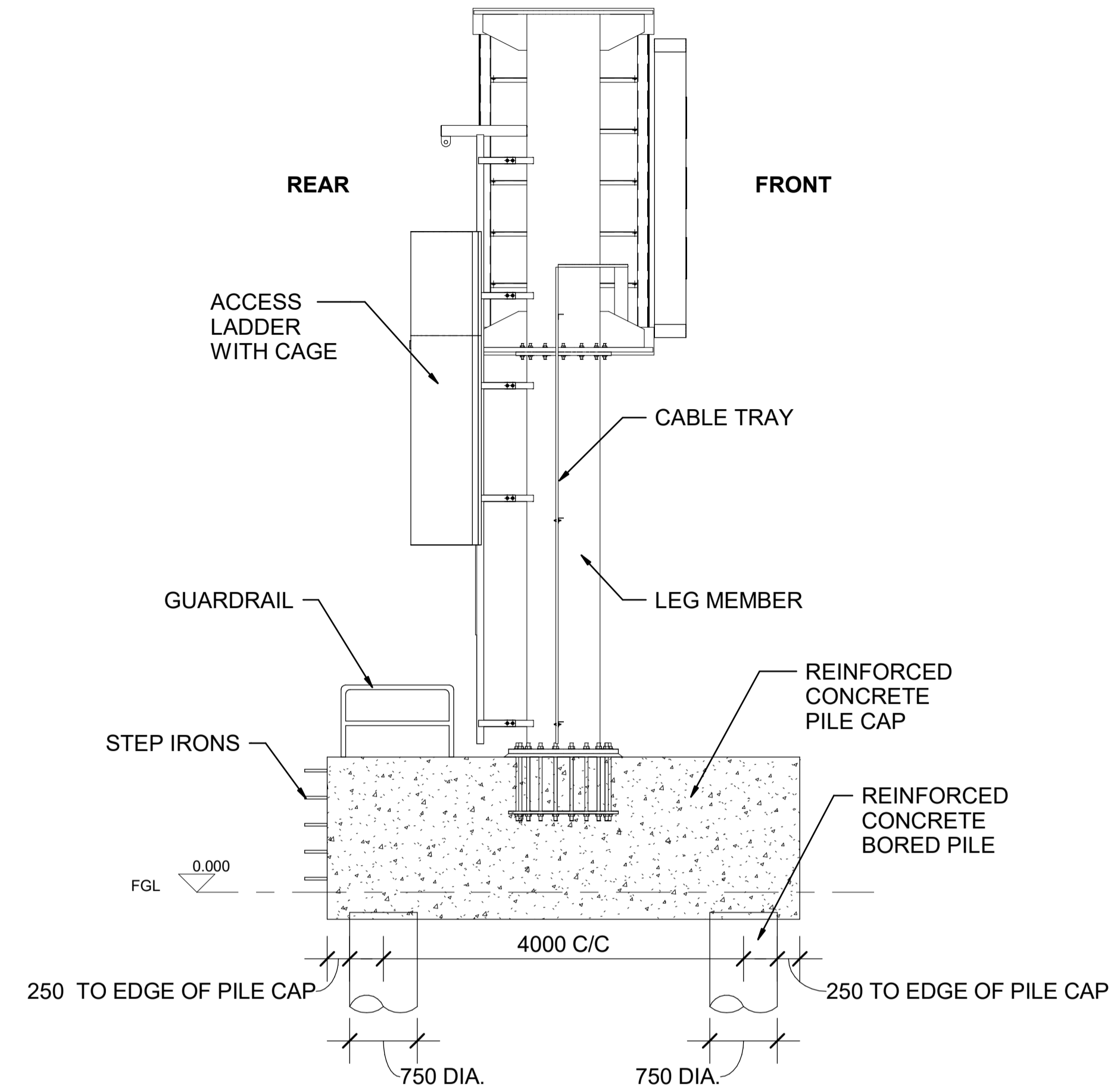
Drawing Title
**STRUCTURAL DETAILS
STANDARDISED MS4 CANTILEVER GANTRY
SHEET 11 OF 12**

Drawing Number
TR010063/APP/2.10

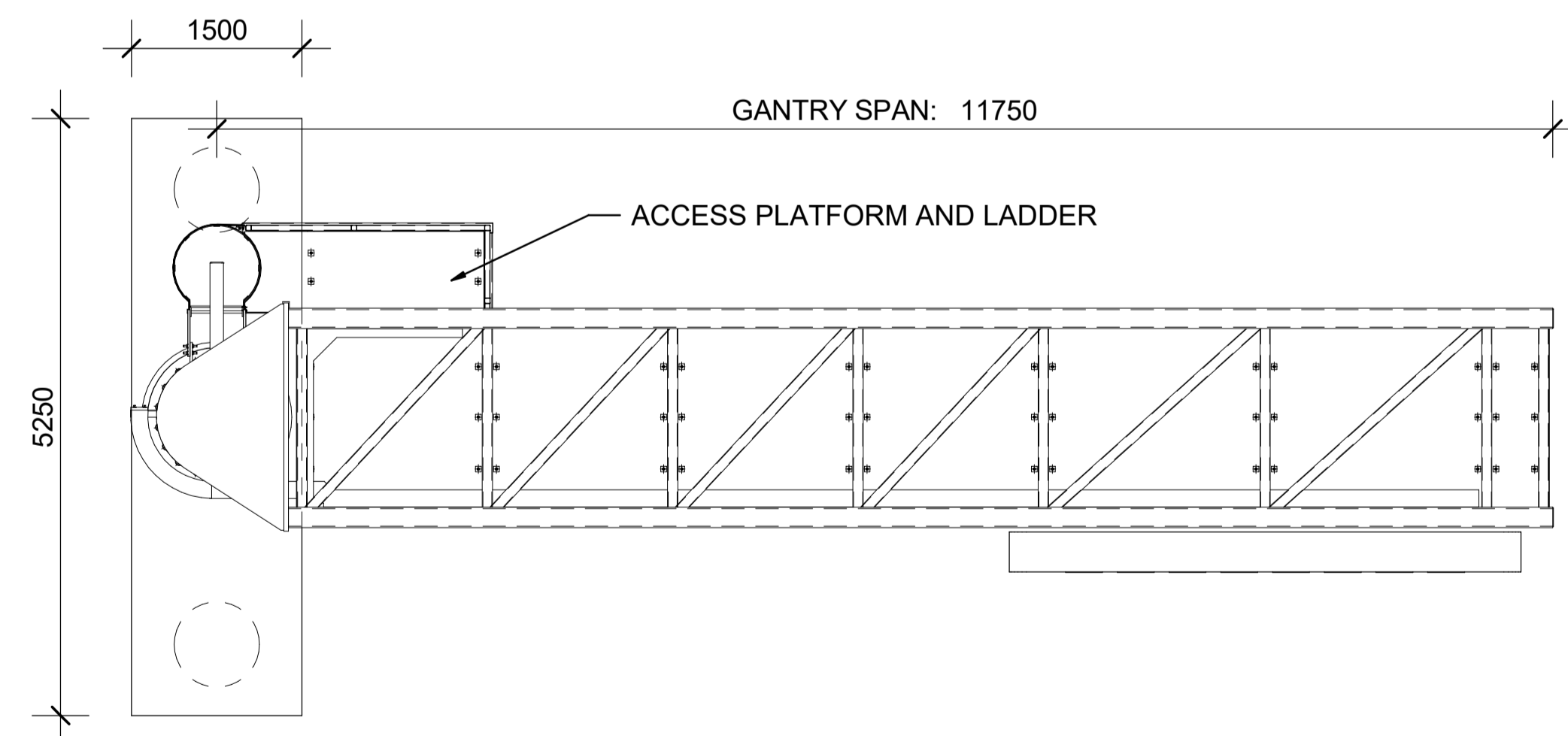
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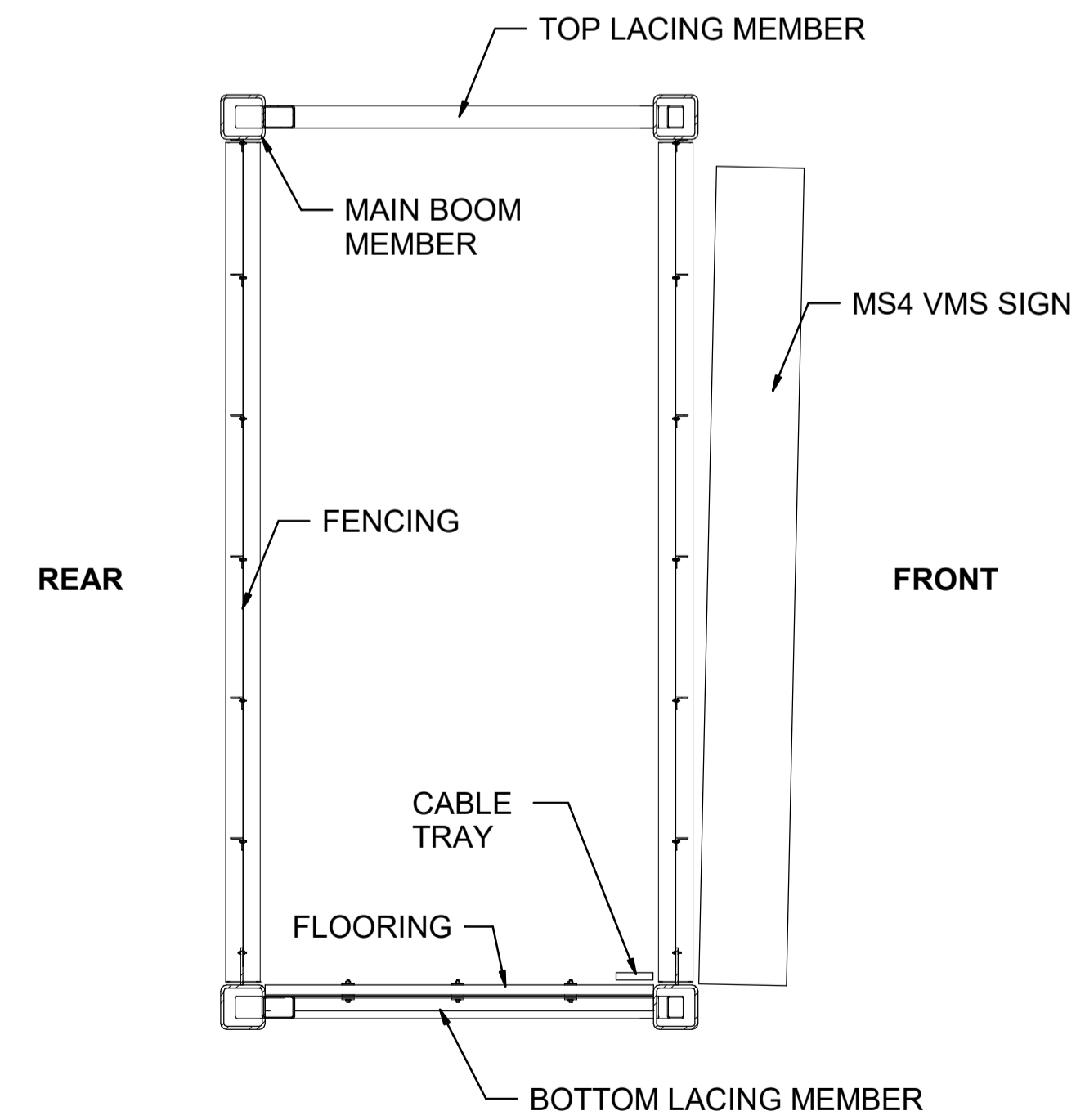
A FRONT ELEVATION
SCALE 1 : 50



B VERGE ELEVATION
SCALE 1 : 50



C PLAN ON TOP BOOM
SCALE 1 : 50



D TYPICAL SECTION THROUGH BOOM
SCALE 1 : 25

NOTES:

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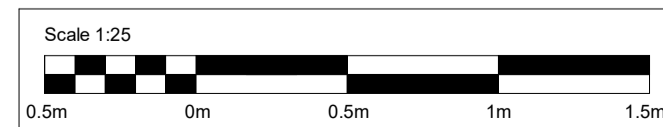
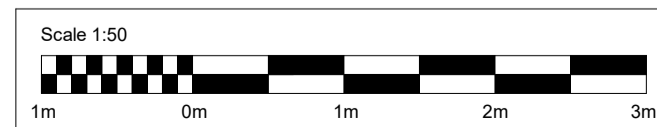
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FIRST SUBMISSION						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
A1	C01	AP	HT	CR	LJ	15/12/23
Drawing Suitability						Status
APPROVED - PUBLISHED						A1

Project Title
M5 J10 Improvements Scheme

Drawing Title
**STRUCTURAL DETAILS
LONG SPAN MS4 CANTILEVER GANTRY
SHEET 12 OF 12**

Drawing Number
TR010063/APP/2.10

Original Size: **A1** Scale: As Shown Project Ref. No.: 5197035 Sheet: 12 of 12 Rev: **C01**



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