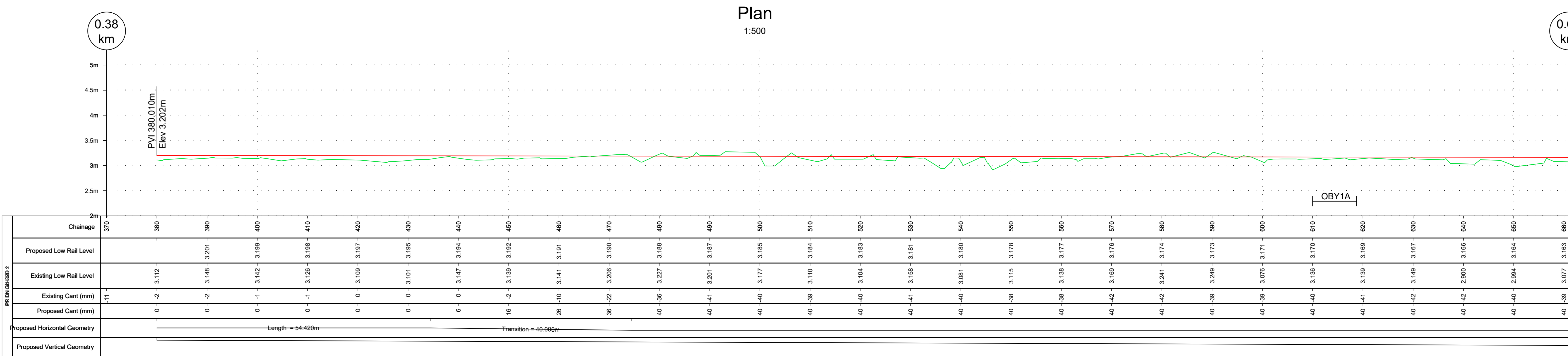
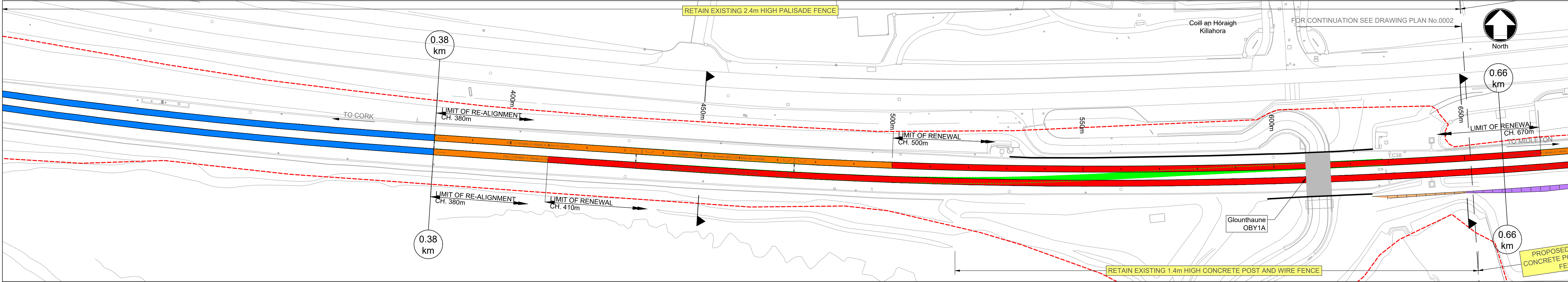


Cork Area Commuter Rail Glounthaune - Midleton Twin Track

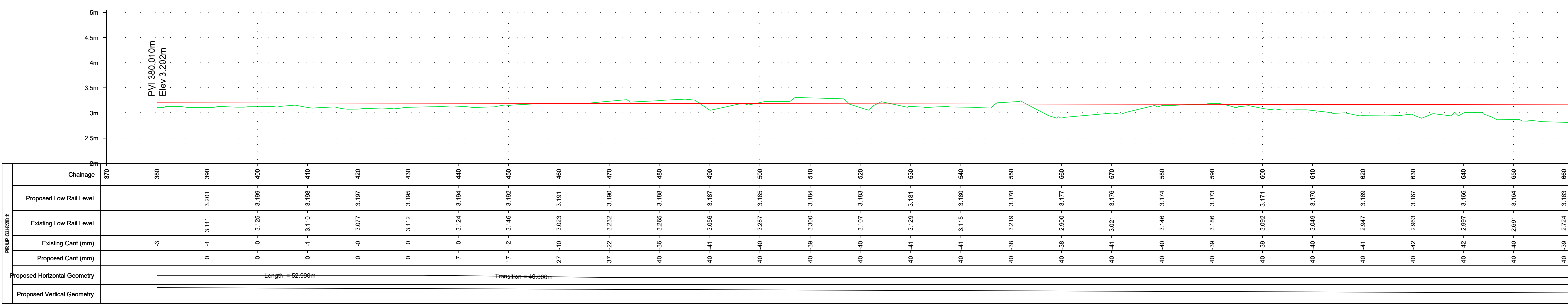
General Arrangement Permanent Way
Preferred Option

July 2022



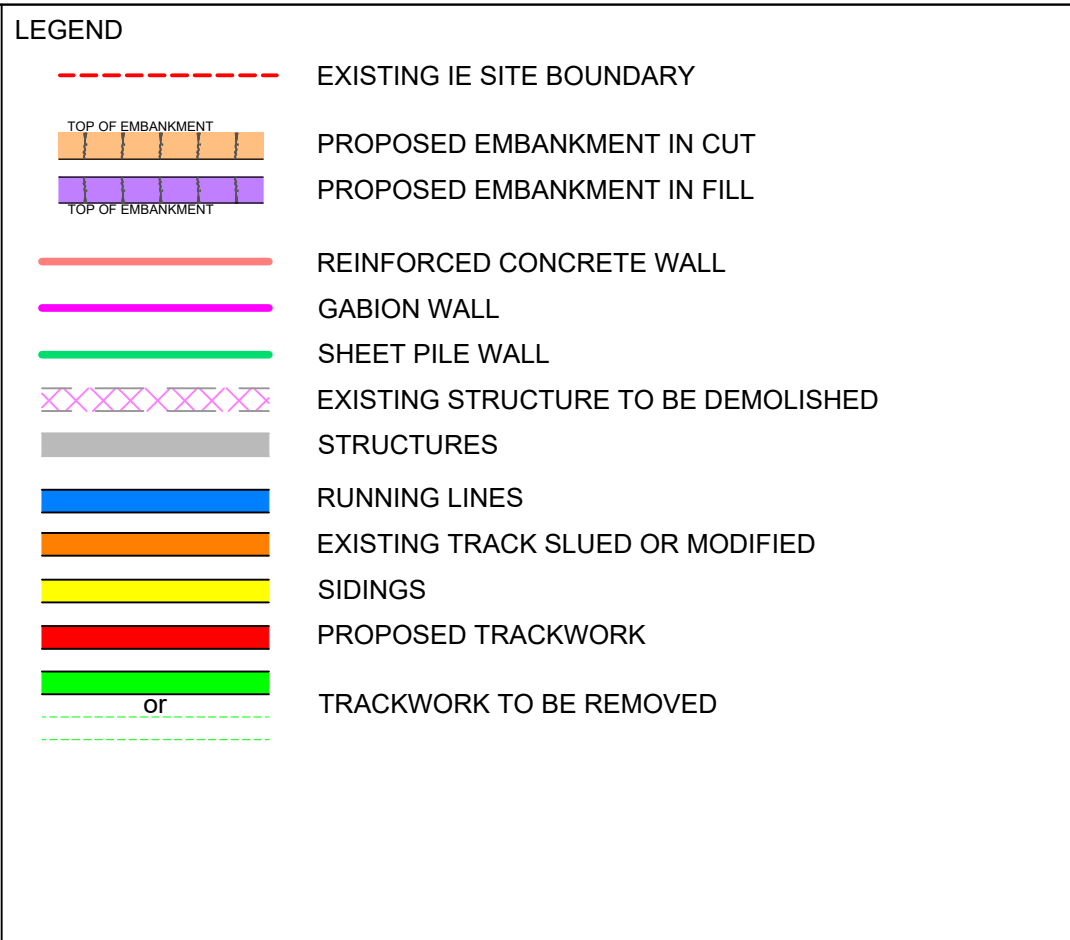
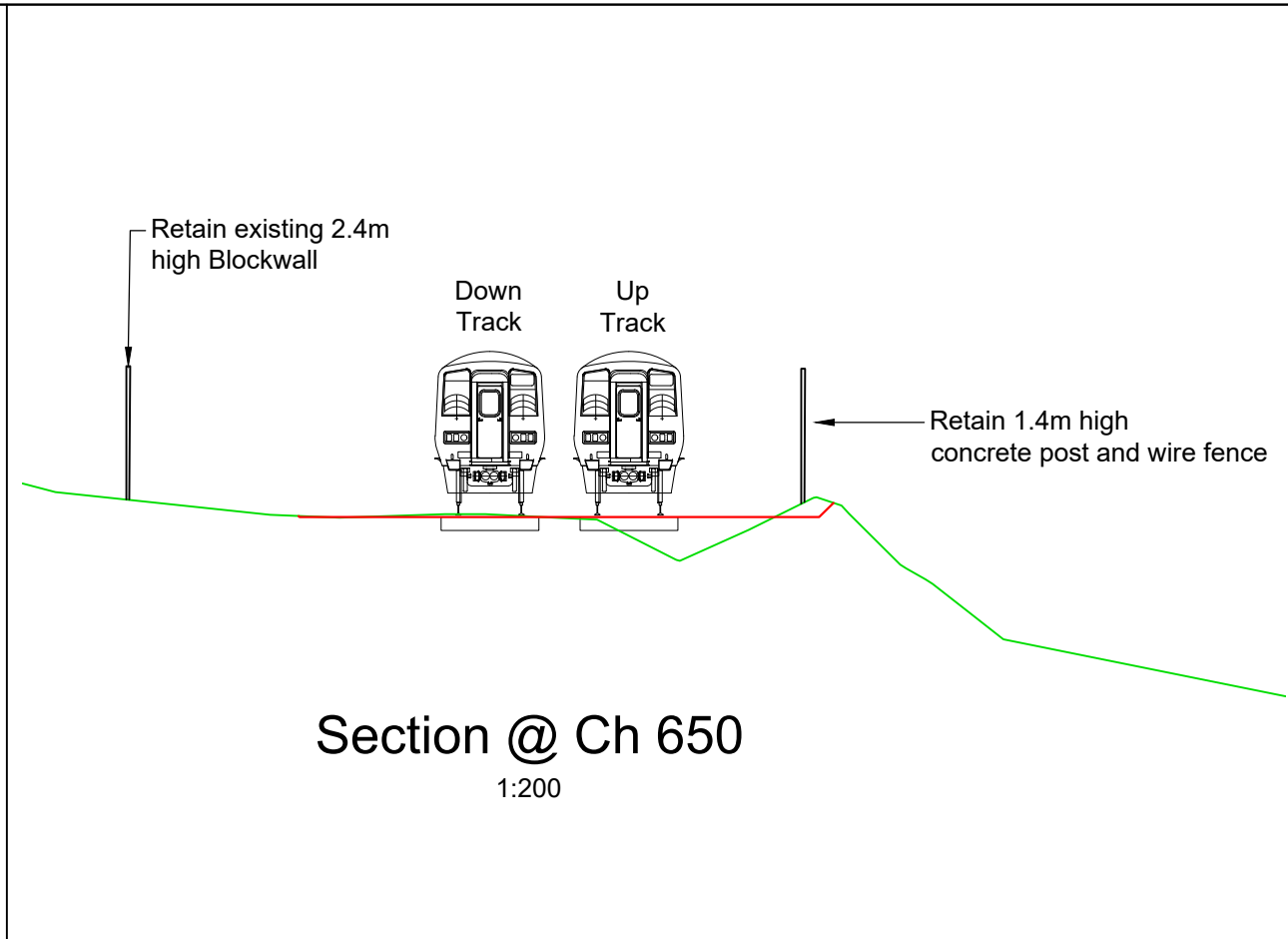
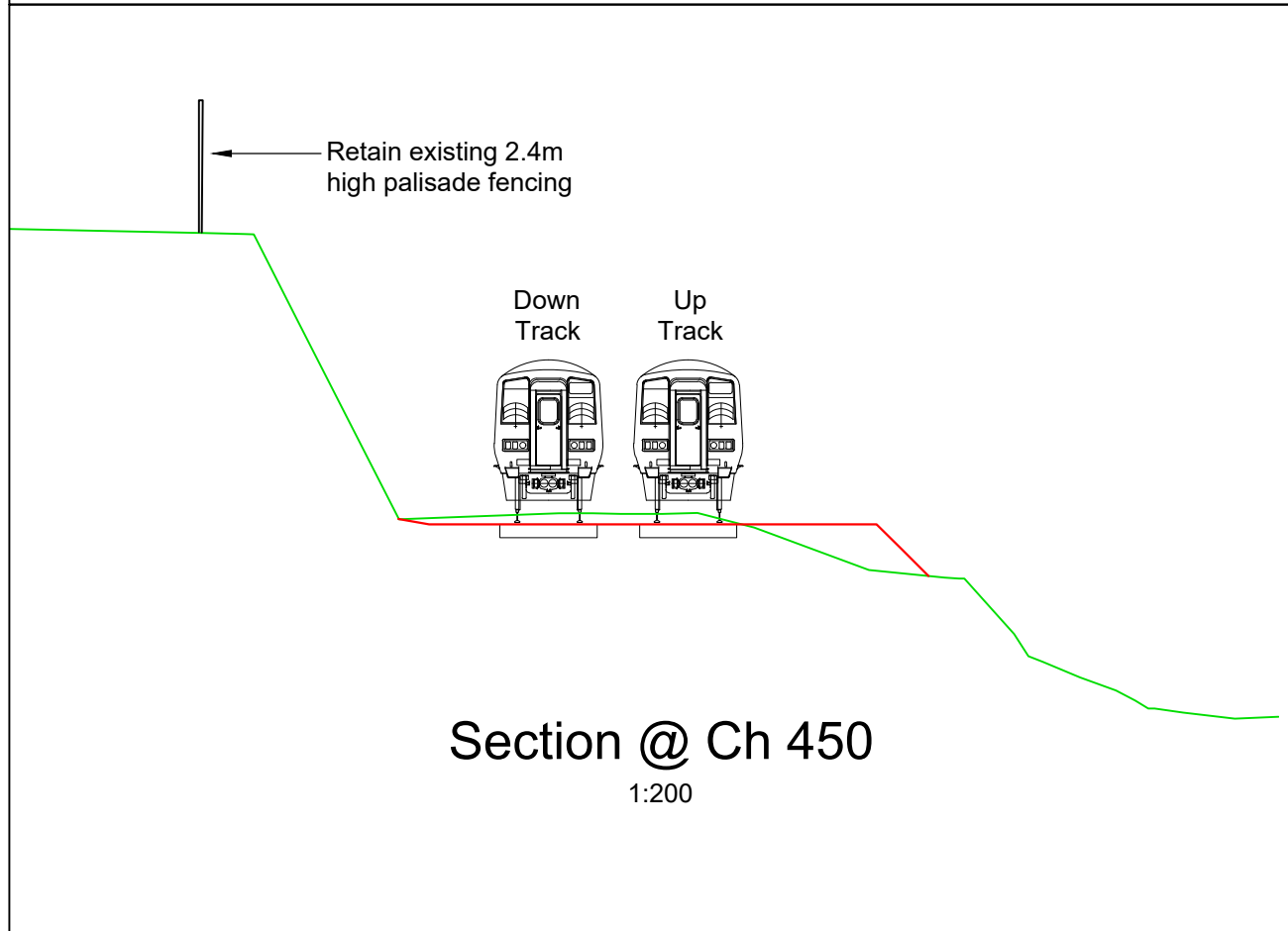


Longsection Down Track
1:500



Longsection Up Track
1:500

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Rev	Date	Drawn	Eng Check	Appr	Description
P01	10/06/22	RO	NS	JM	Preliminary Design for Public Consultation
P02	22/07/22	RO	NS	JM	Preliminary Design for Public Consultation

Date	Designed	Drawn	Dwg check	Eng check
22/07/22	D. Alderson	R. O'CONNOR	B. BUCKLEY	N. SAMACHETTY

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Tionscadal Éireann Project Ireland 2040

Iarnród Éireann Infrastructure

Iarnród Éireann-Irish Rail
Connolly Station
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Dublin 1
D01 V6V6

ANTA
Údarás Náisiúnta Iompair
National Transport Authority

CIE

Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title
General Arrangement Permanent Way
Preferred Option

Drawing File Name
C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0001

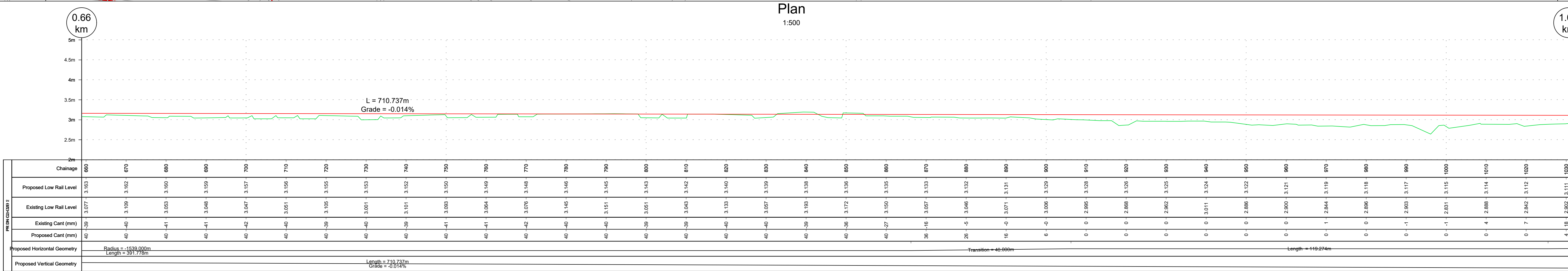
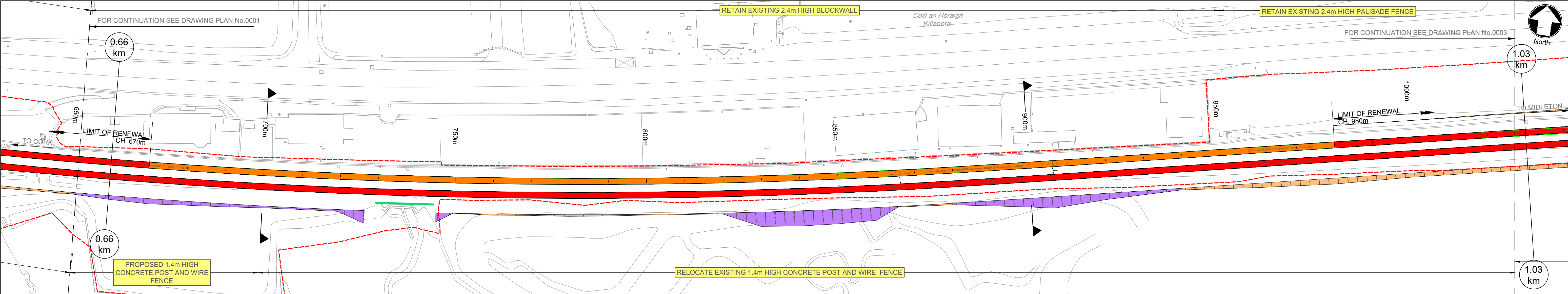
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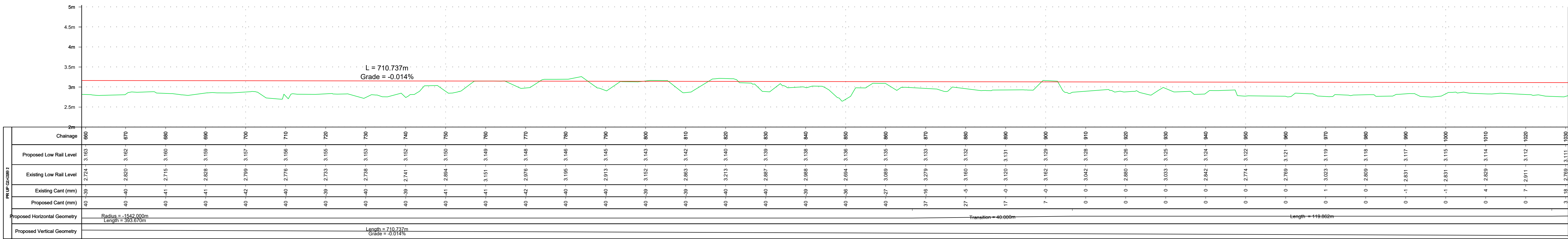
Acceptance
S

Purpose
P1

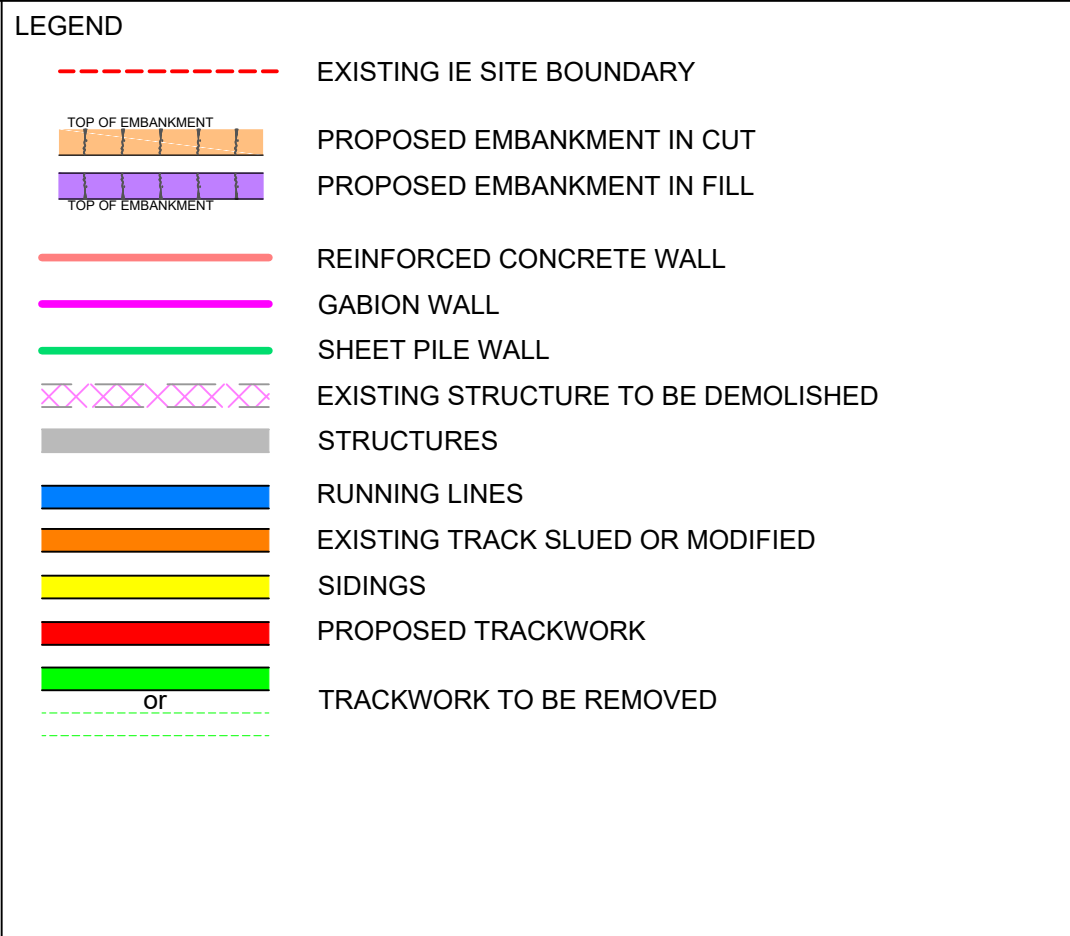
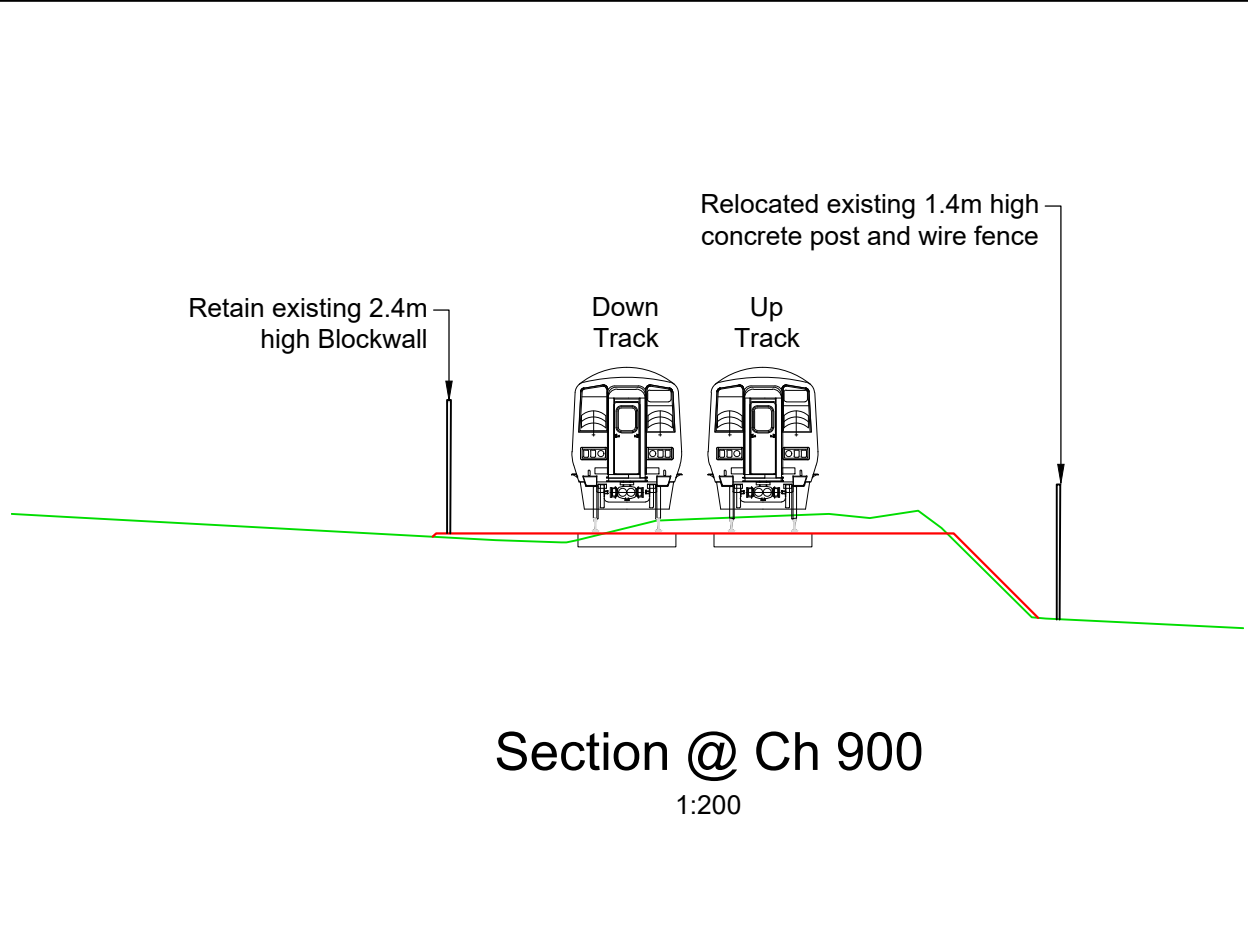
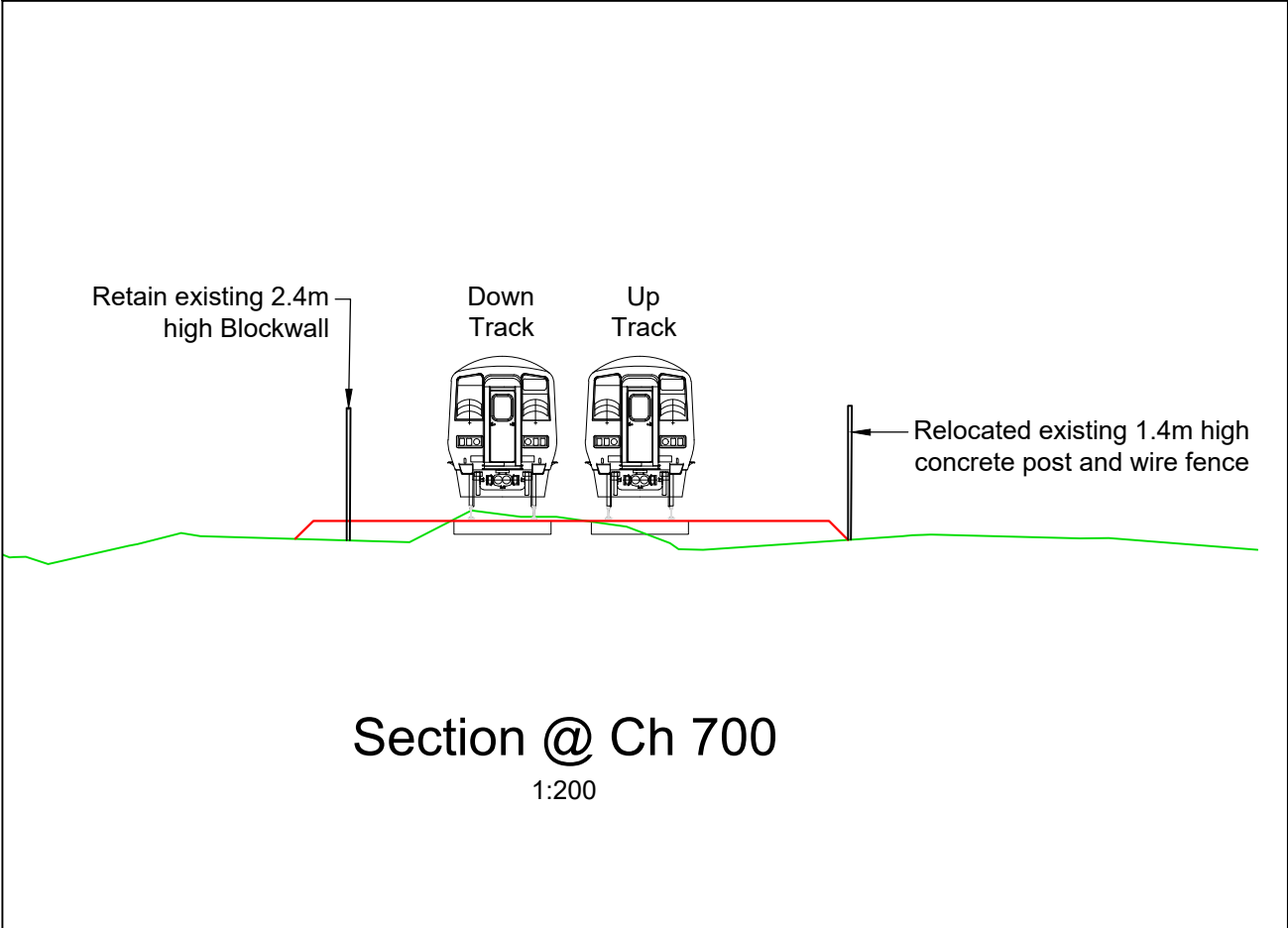
Rev
P02



Longsection Down Track
1:500



Longsection Up Track
1:500



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Department of Transport, Tourism and Sport

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Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

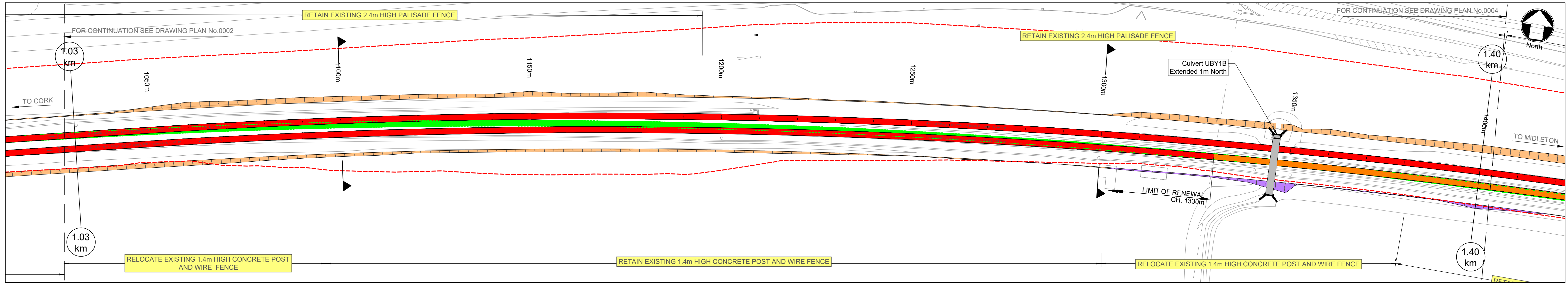
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General Arrangement Permanent Way
Preferred Option

Drawing File Name
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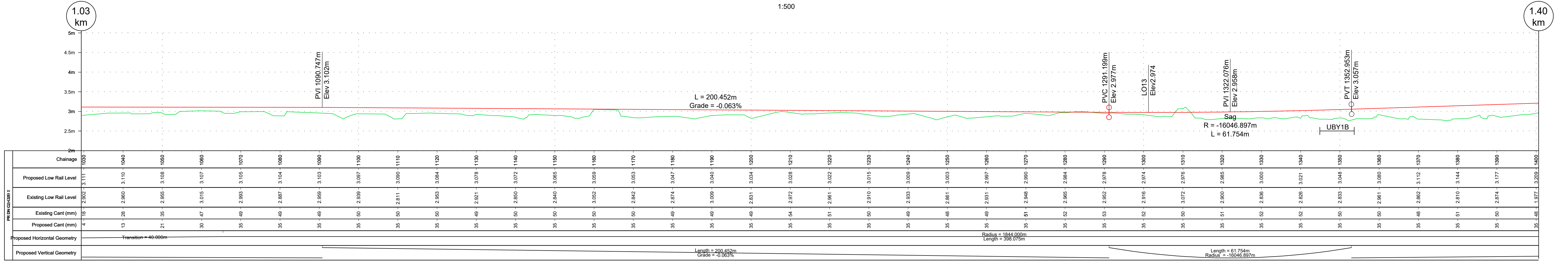
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Rev	Date	Drawn	Eng Check	Appr	Description
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P02	22/07/22	RO	NS	JM	Preliminary Design for Public Consultation

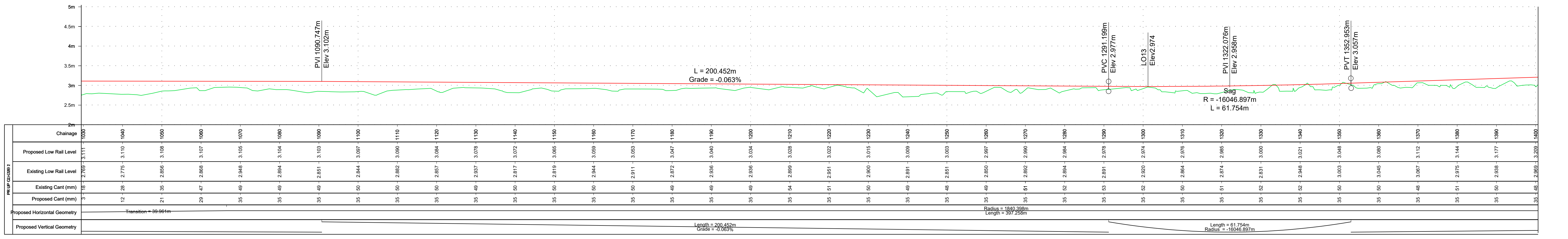
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22/07/22	D. Alderson	R.O'CONNOR	B.BUCKLEY	N.SAMACHETTY	N.SAMACHETTY	J.MCINERNEY	1:500	S	P1	P02



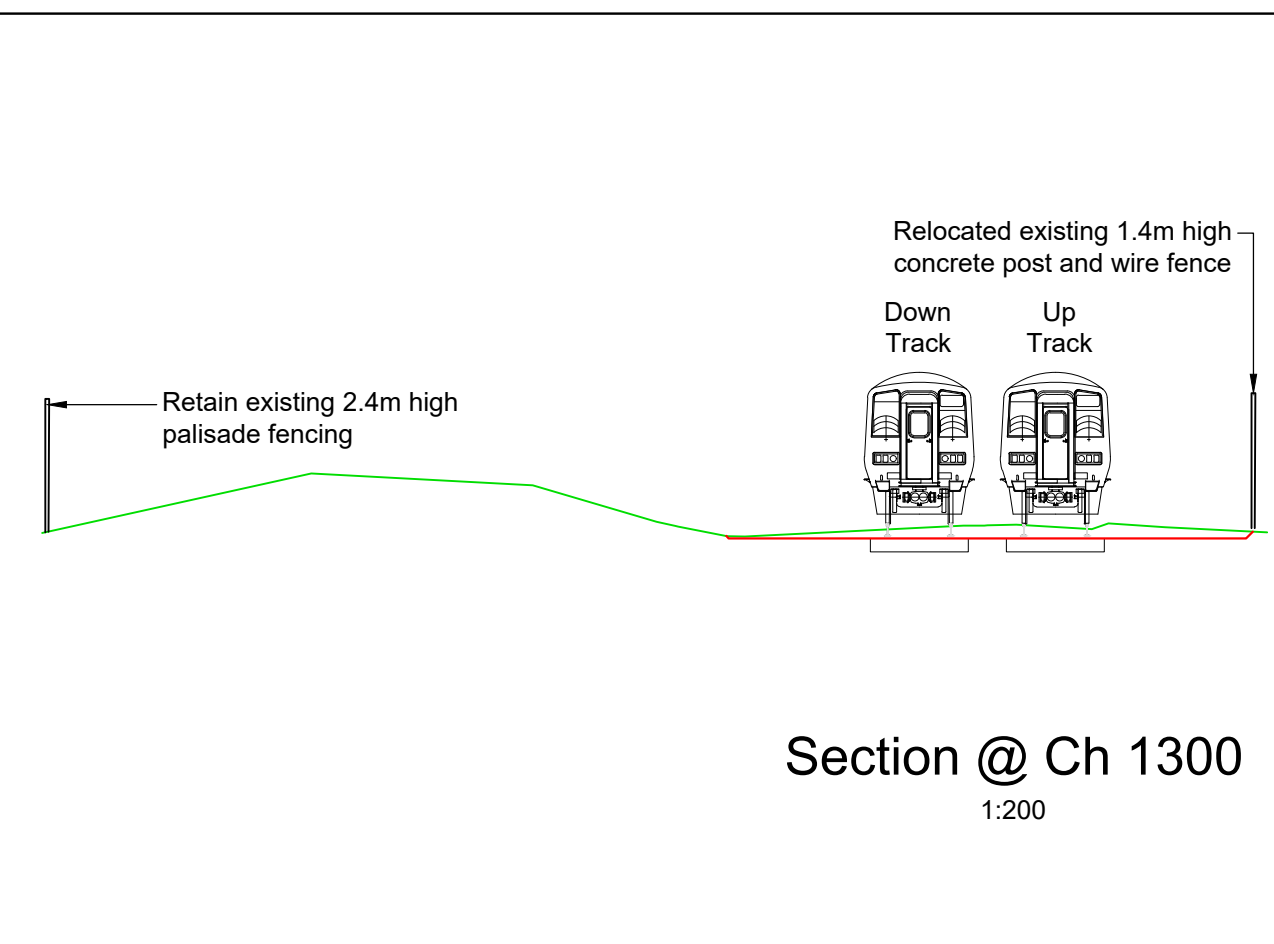
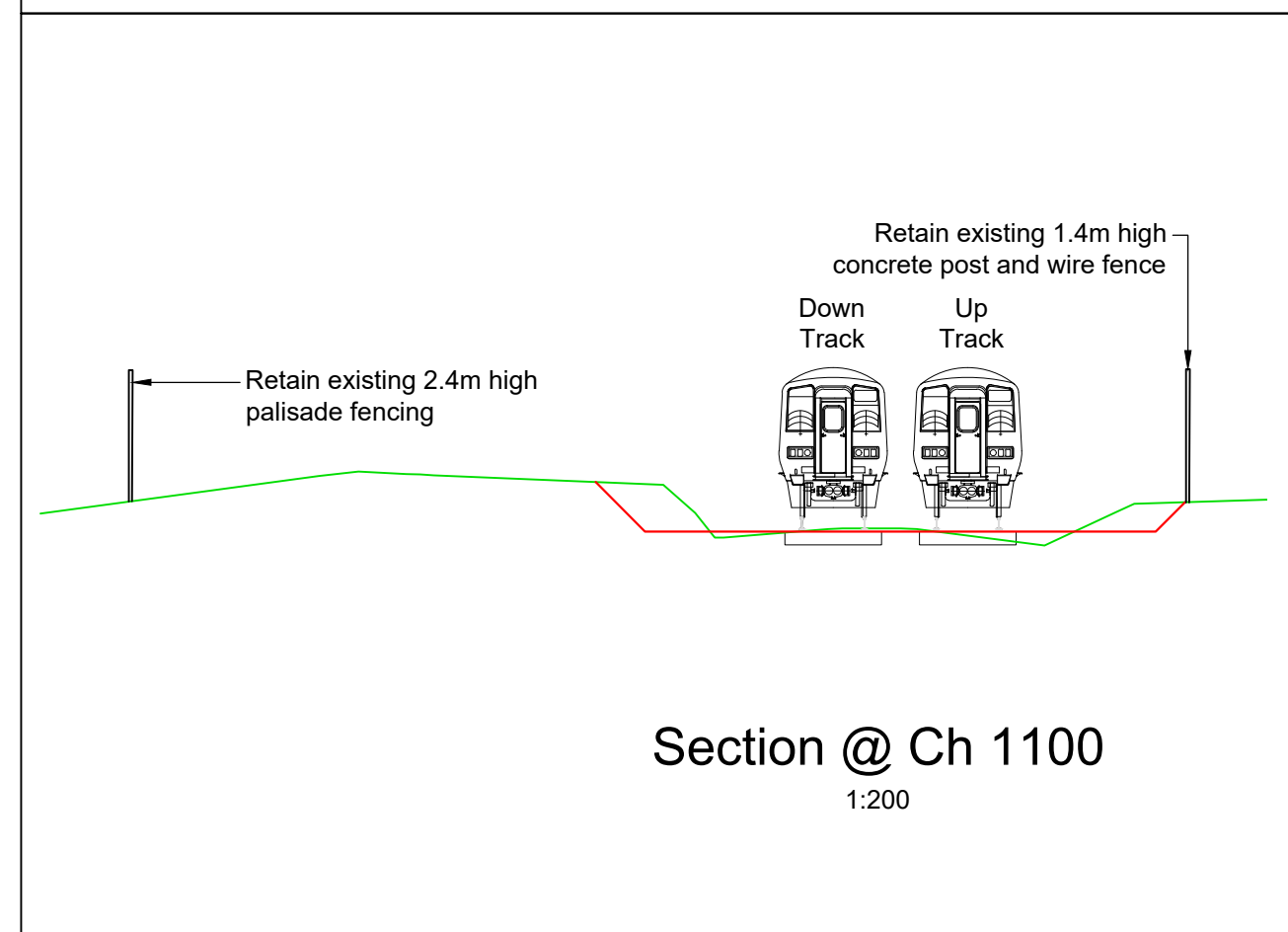
Plan
1:500



Longsection Down Track
1:500



Longsection Up Track
1:500



- LEGEND
- EXISTING IE SITE BOUNDARY
 - PROPOSED EMBANKMENT IN CUT
 - PROPOSED EMBANKMENT IN FILL
 - REINFORCED CONCRETE WALL
 - GABION WALL
 - SHEET PILE WALL
 - EXISTING STRUCTURE TO BE DEMOLISHED
 - STRUCTURES
 - RUNNING LINES
 - EXISTING TRACK SLUED OR MODIFIED
 - SIDINGS
 - PROPOSED TRACKWORK
 - TRACKWORK TO BE REMOVED

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National Transport Authority

CIE

Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title
General Arrangement Permanent Way
Preferred Option

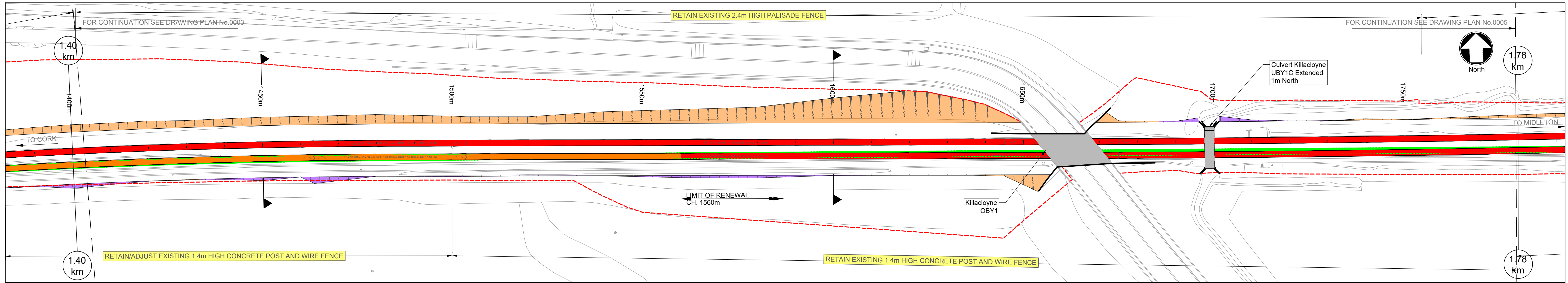
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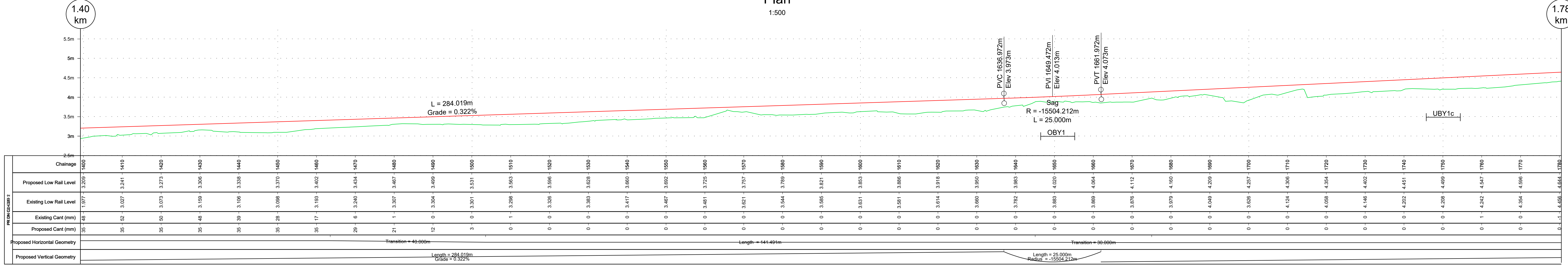
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P02	22/07/22	RO	NS	JM	Preliminary Design for Public Consultation

Date	Designed	Drawn	Dwg check	Eng check
22/07/22	D. Alderson	R. O'CONNOR	B. BUCKLEY	N. SAMACHETTY

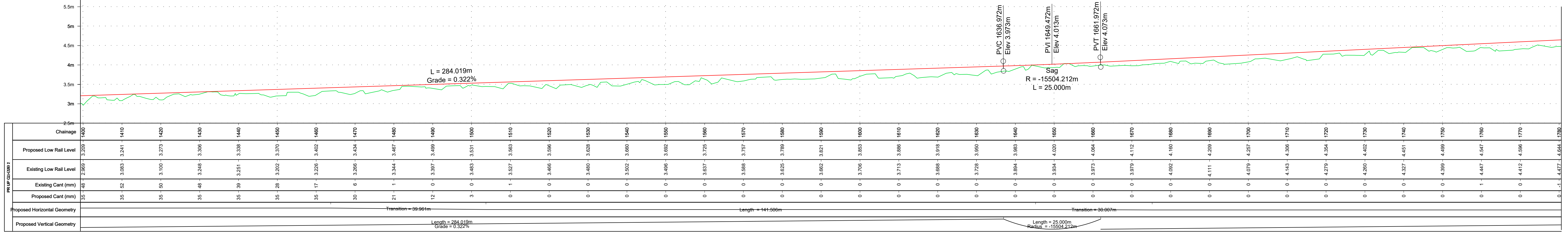
Coordination	Approved	Scale	Acceptance	Purpose	Rev
N. SAMACHETTY	J. MCINERNEY	@ A1 1:500	S	P1	P02



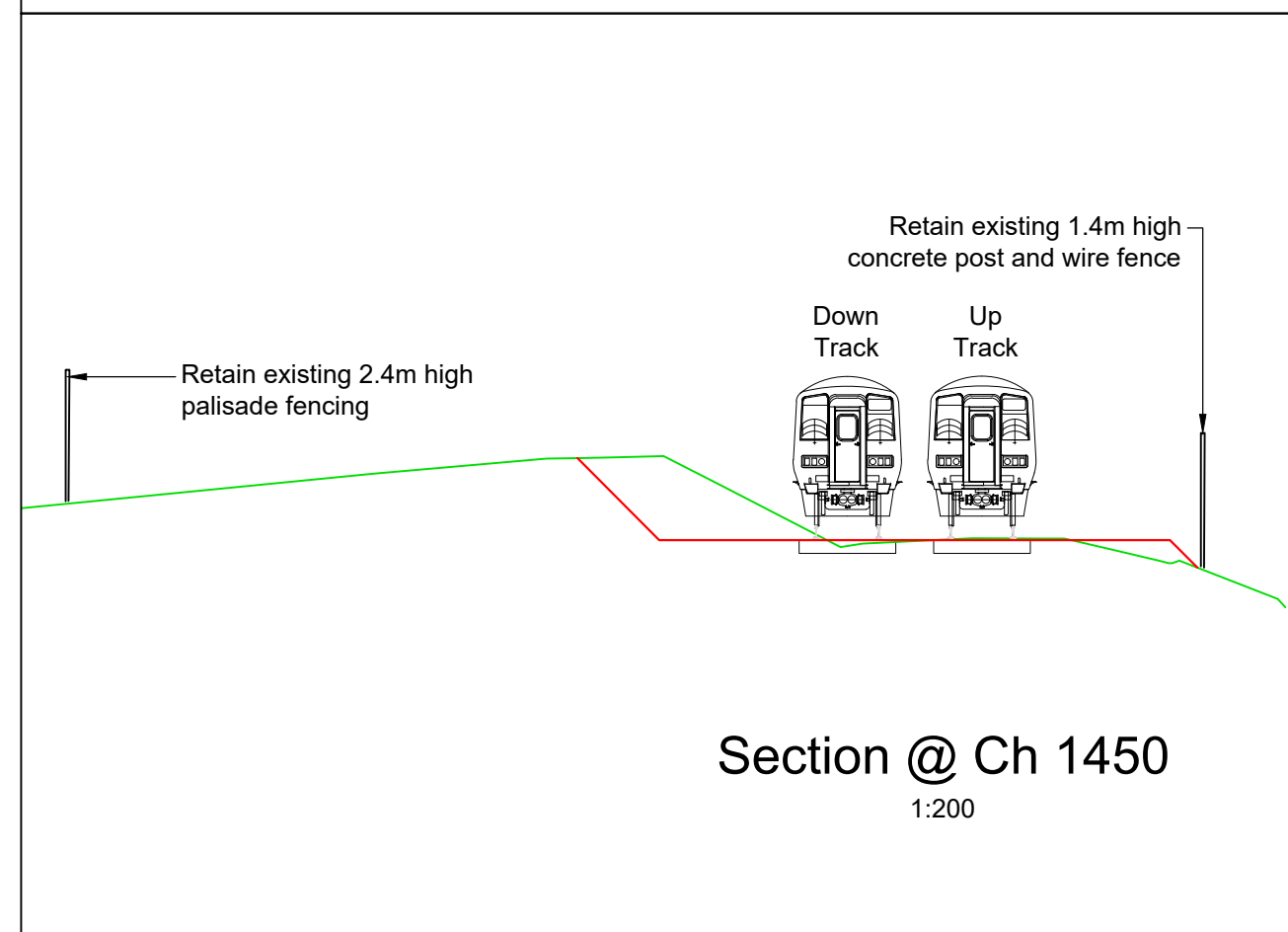
Plan
1:500



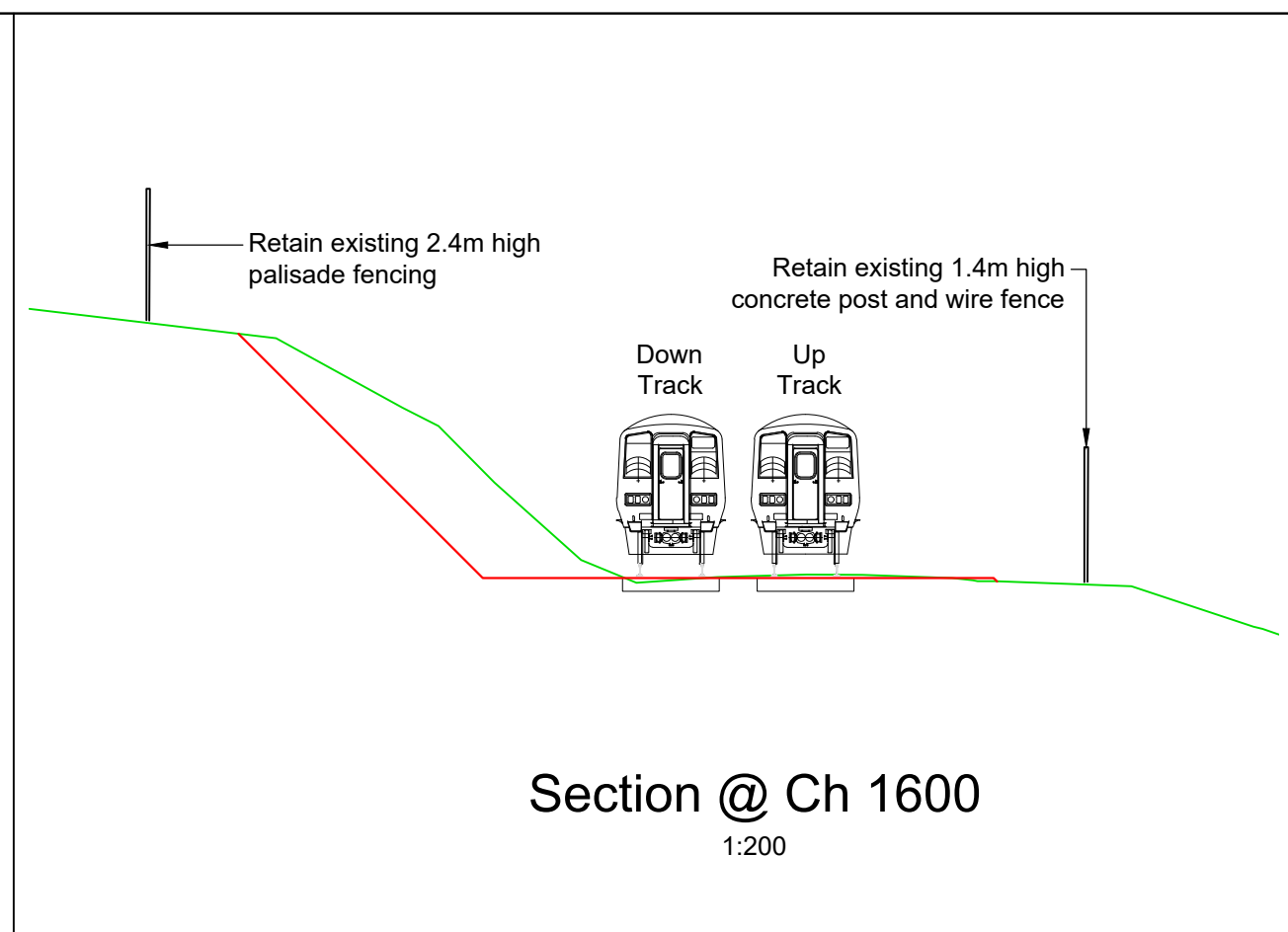
Longsection Down Track
1:500



Longsection Up Track
1:500



Section @ Ch 1450
1:200



Section @ Ch 1600
1:200

LEGEND

- EXISTING IE SITE BOUNDARY
- PROPOSED EMBANKMENT IN CUT
- PROPOSED EMBANKMENT IN FILL
- REINFORCED CONCRETE WALL
- GABION WALL
- SHEET PILE WALL
- EXISTING STRUCTURE TO BE DEMOLISHED
- STRUCTURES
- RUNNING LINES
- EXISTING TRACK SLUED OR MODIFIED
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Department of Transport, Tourism and Sport

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Project Title: CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title: General Arrangement Permanent Way Preferred Option

Drawing File Name: C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0004

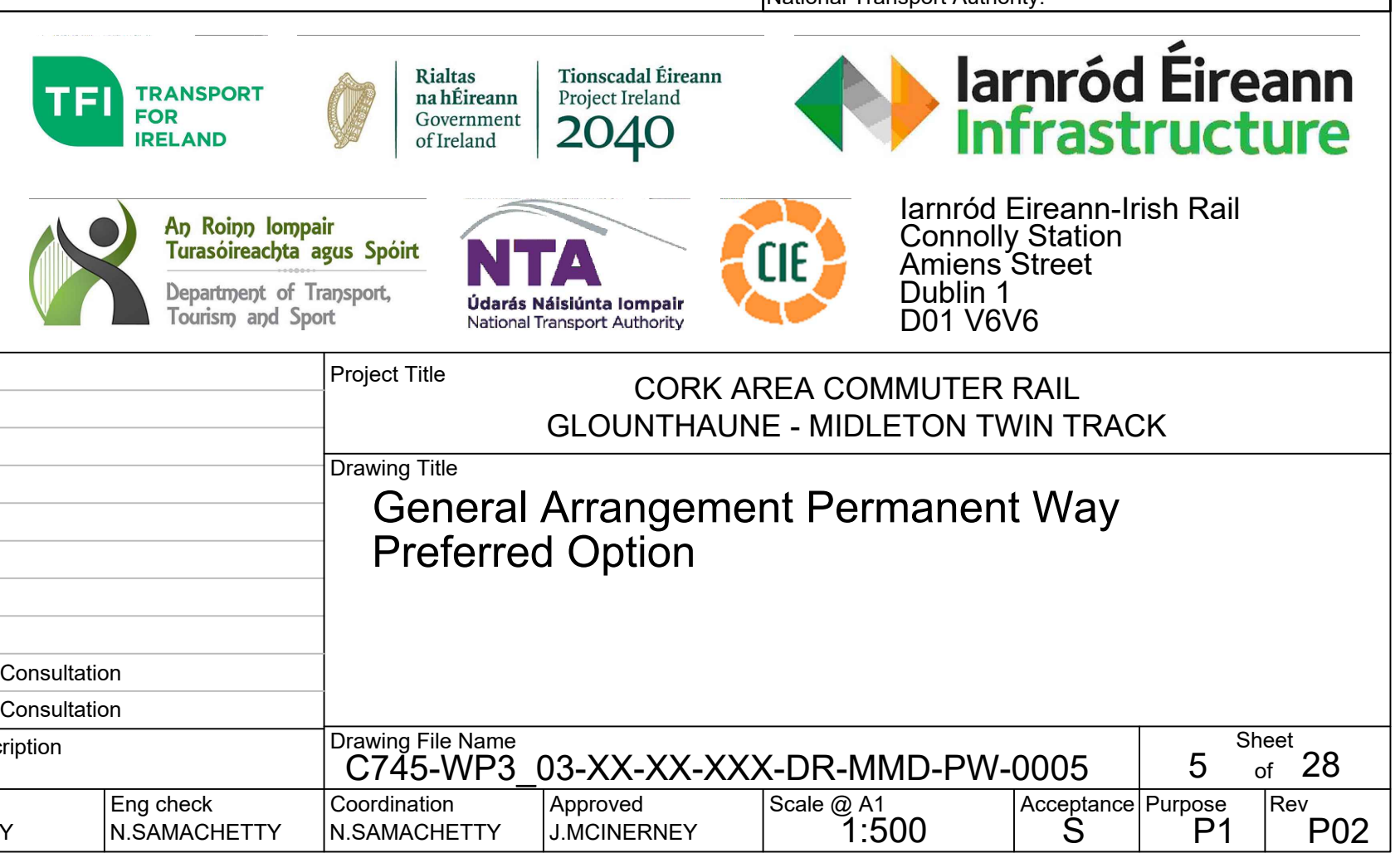
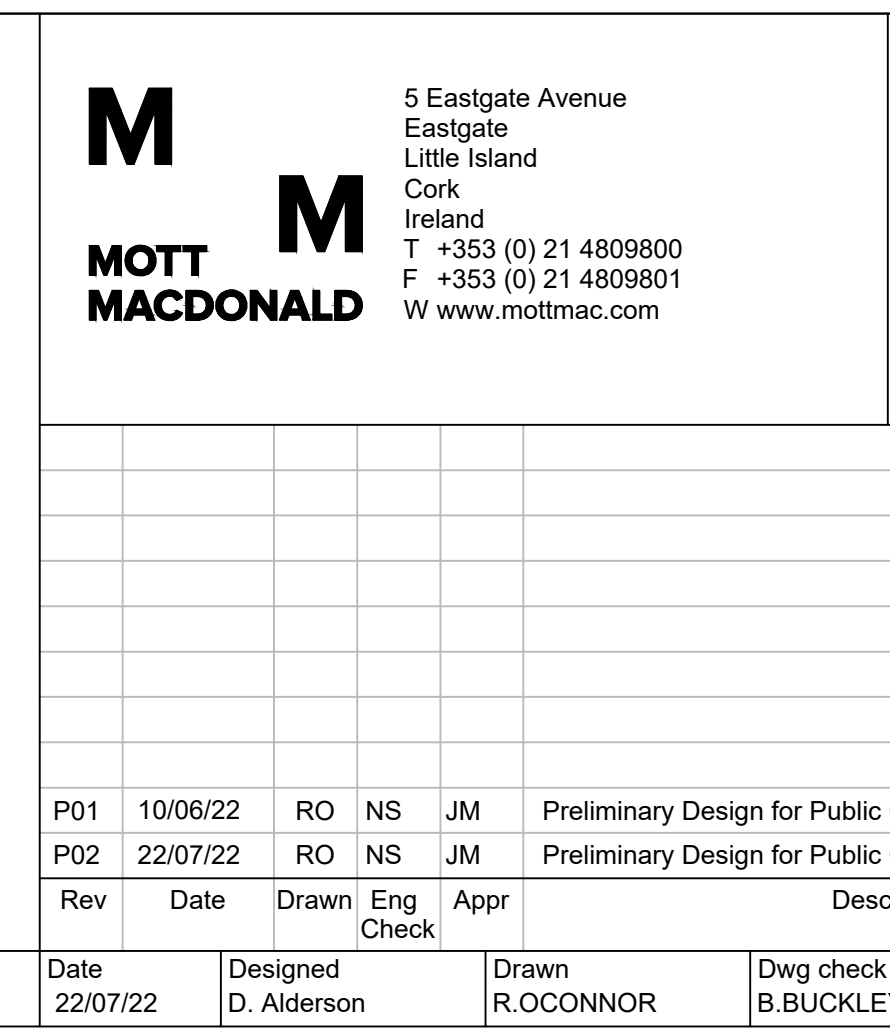
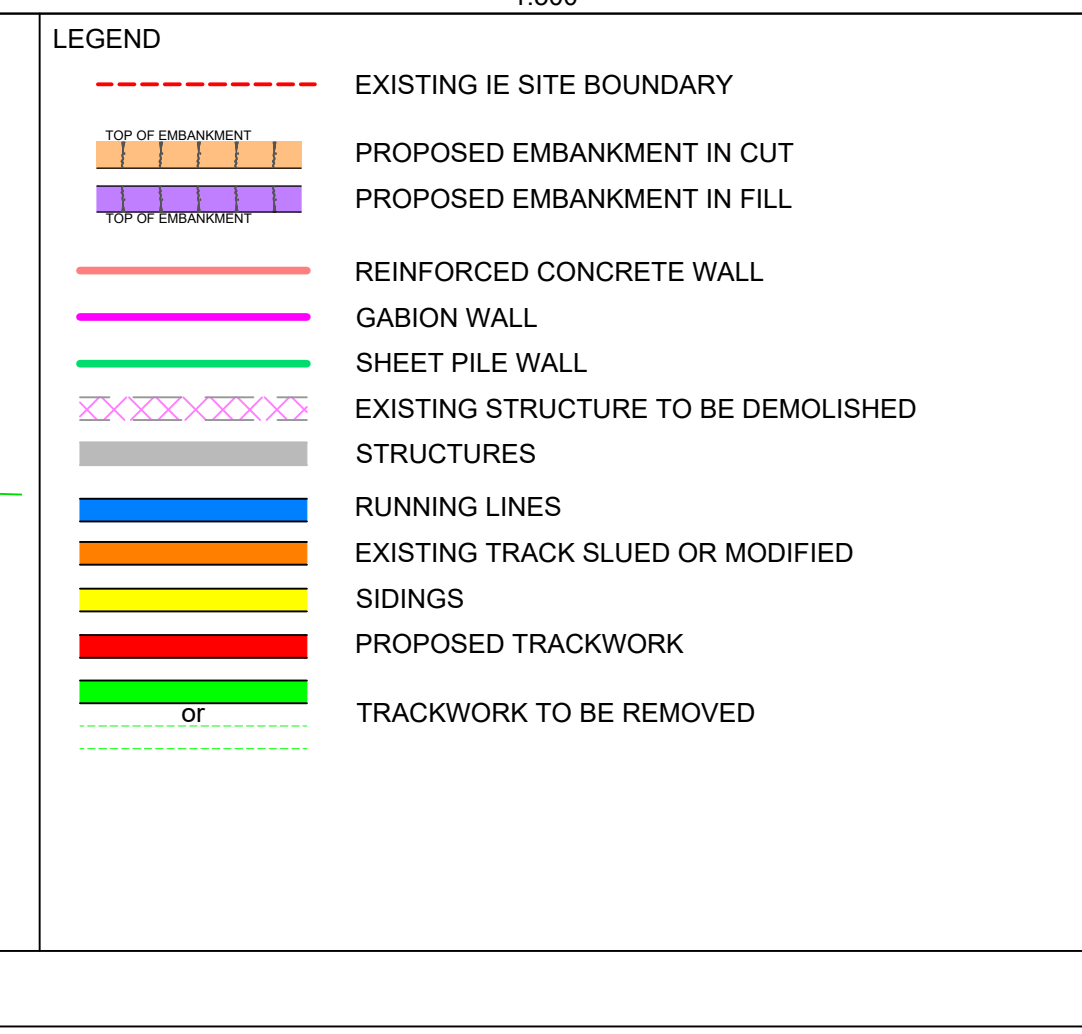
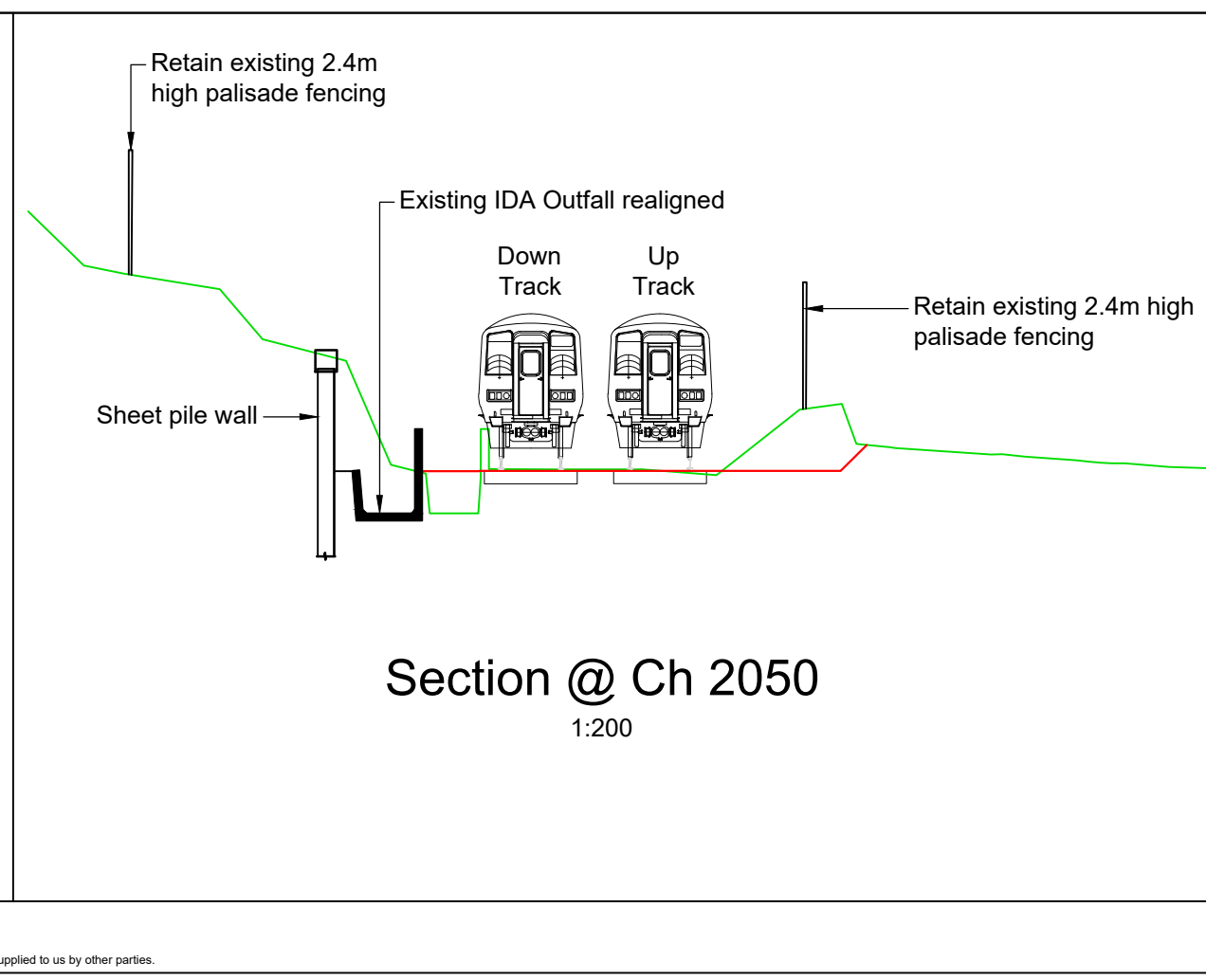
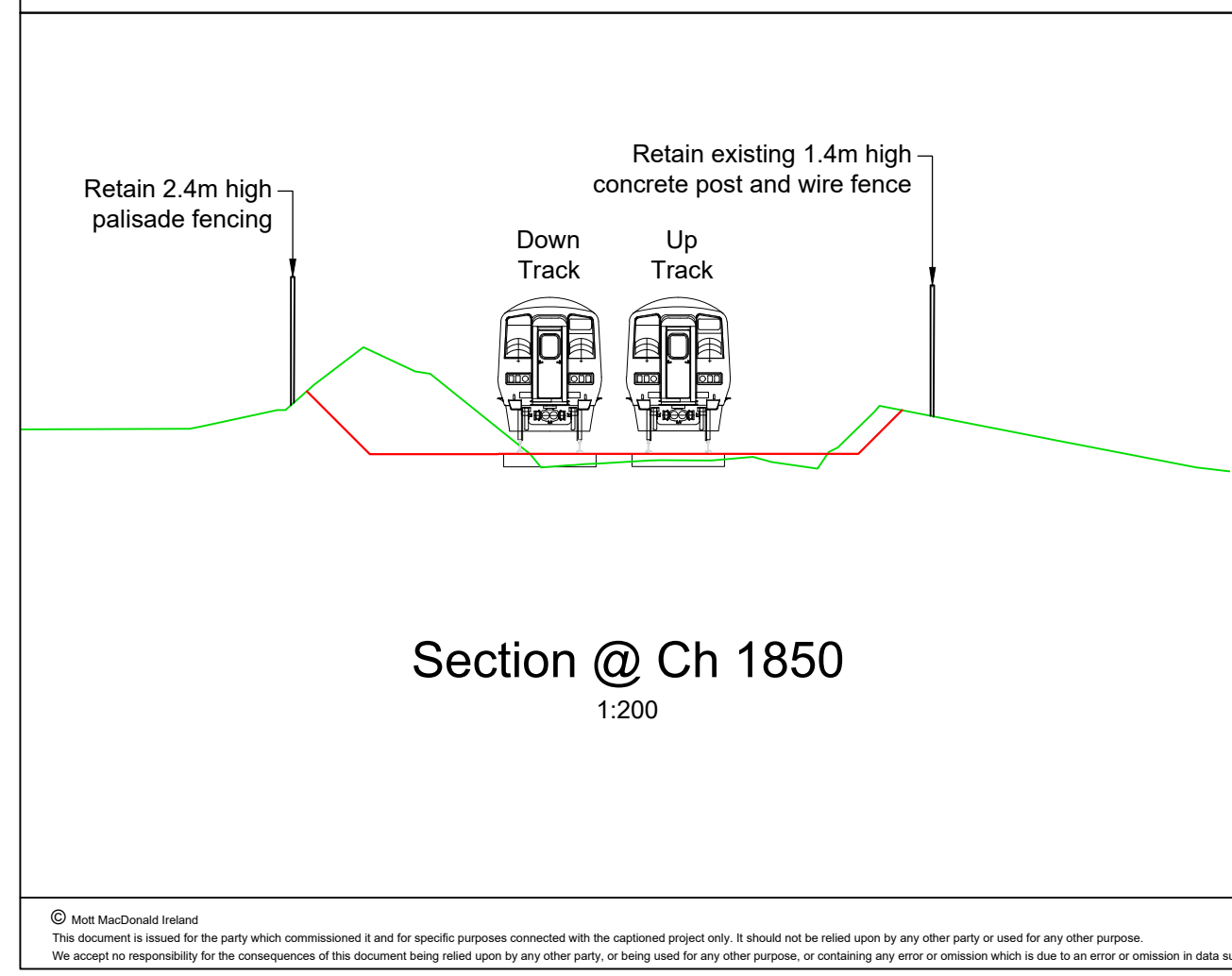
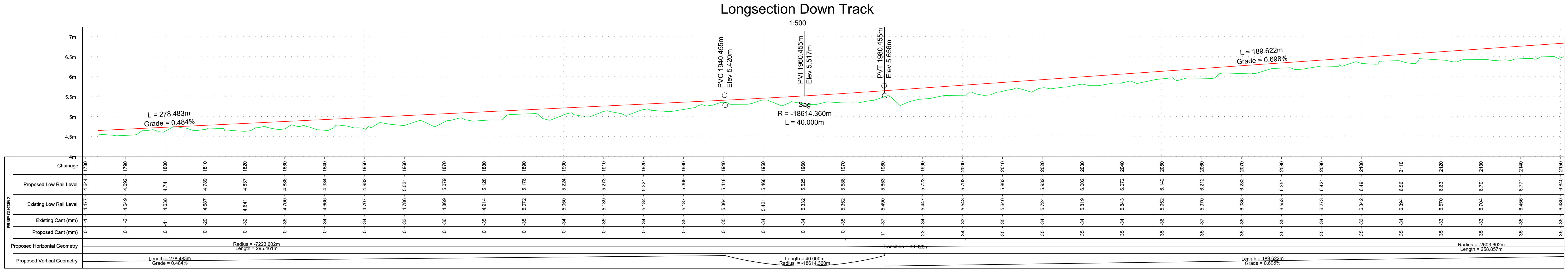
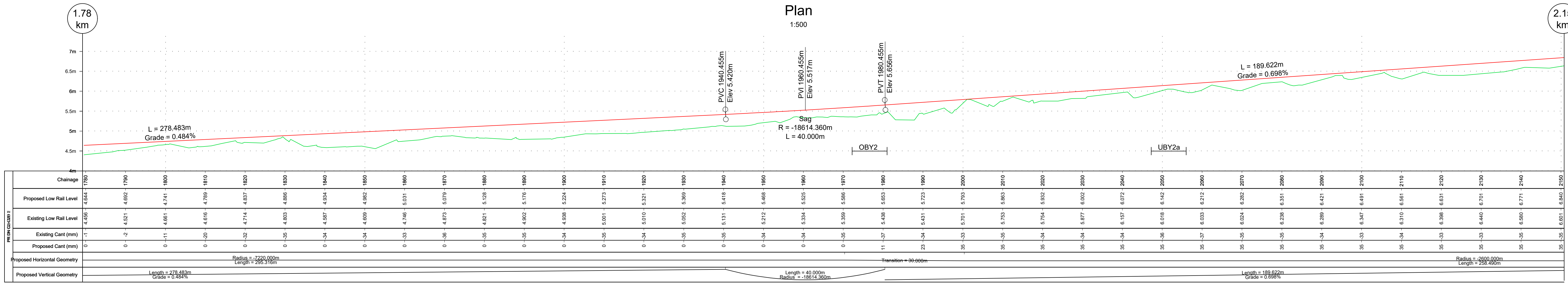
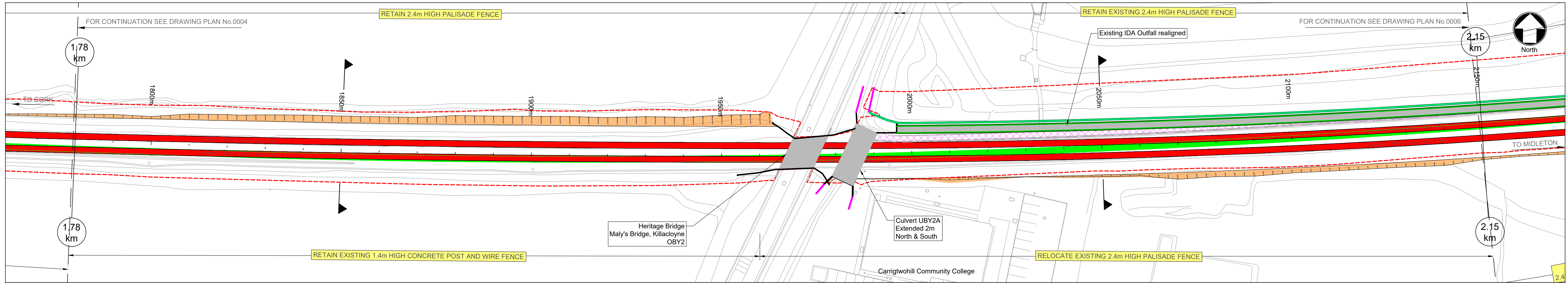
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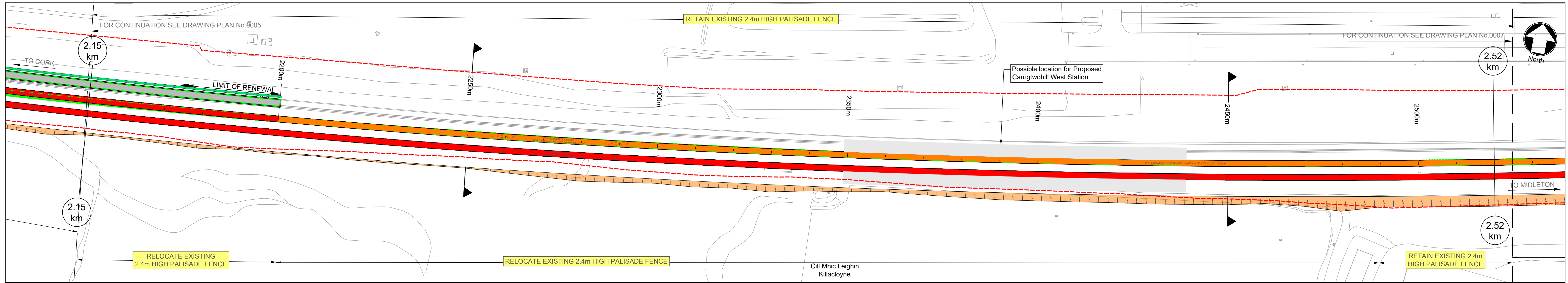
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Rev P02 22/07/22 RO NS JM Preliminary Design for Public Consultation

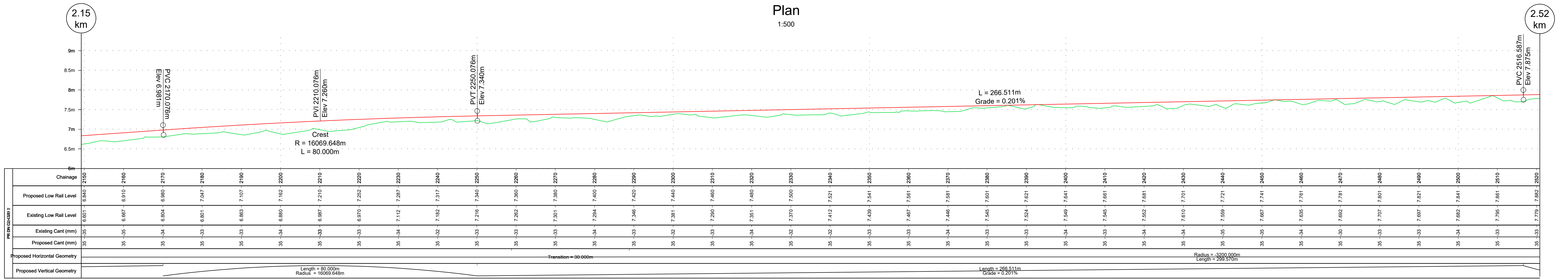
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Coordination N.SAMACHETTY Approved J.MCINERNEY Scale @ A1 1:500 Acceptance S Purpose P1 Rev P02

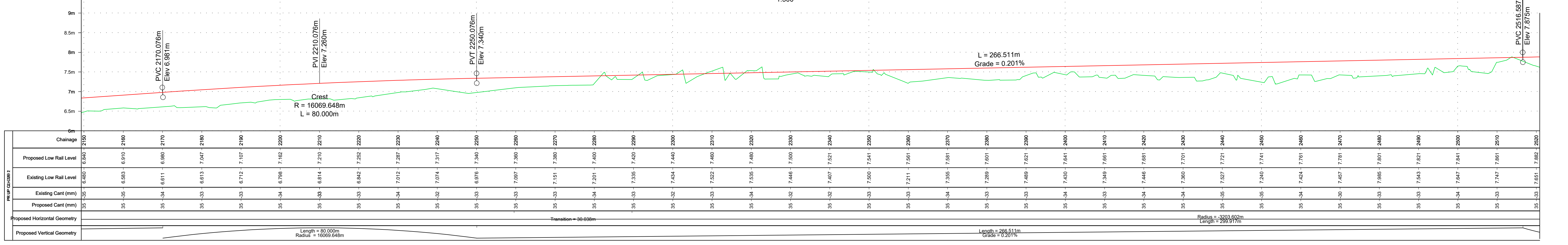




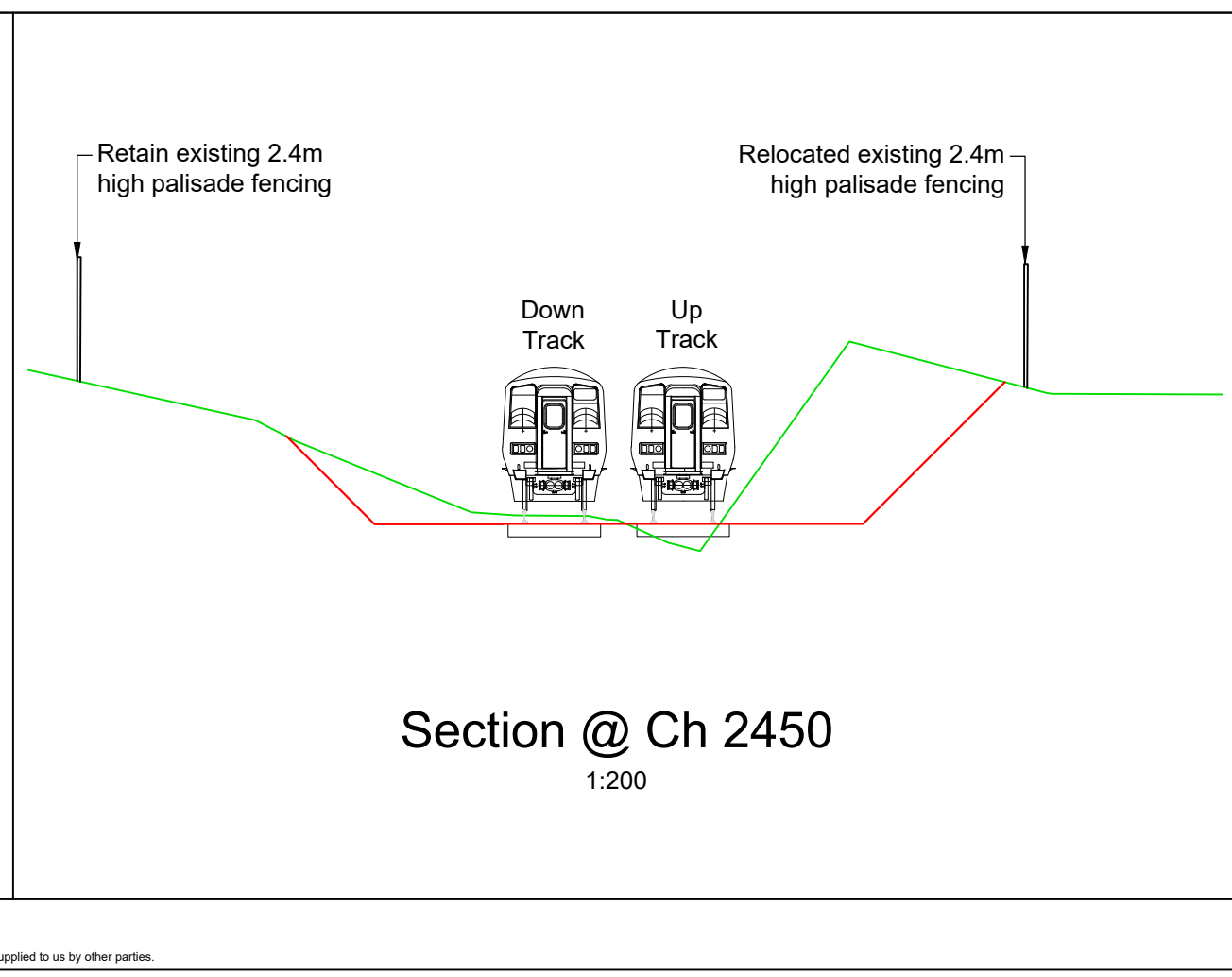
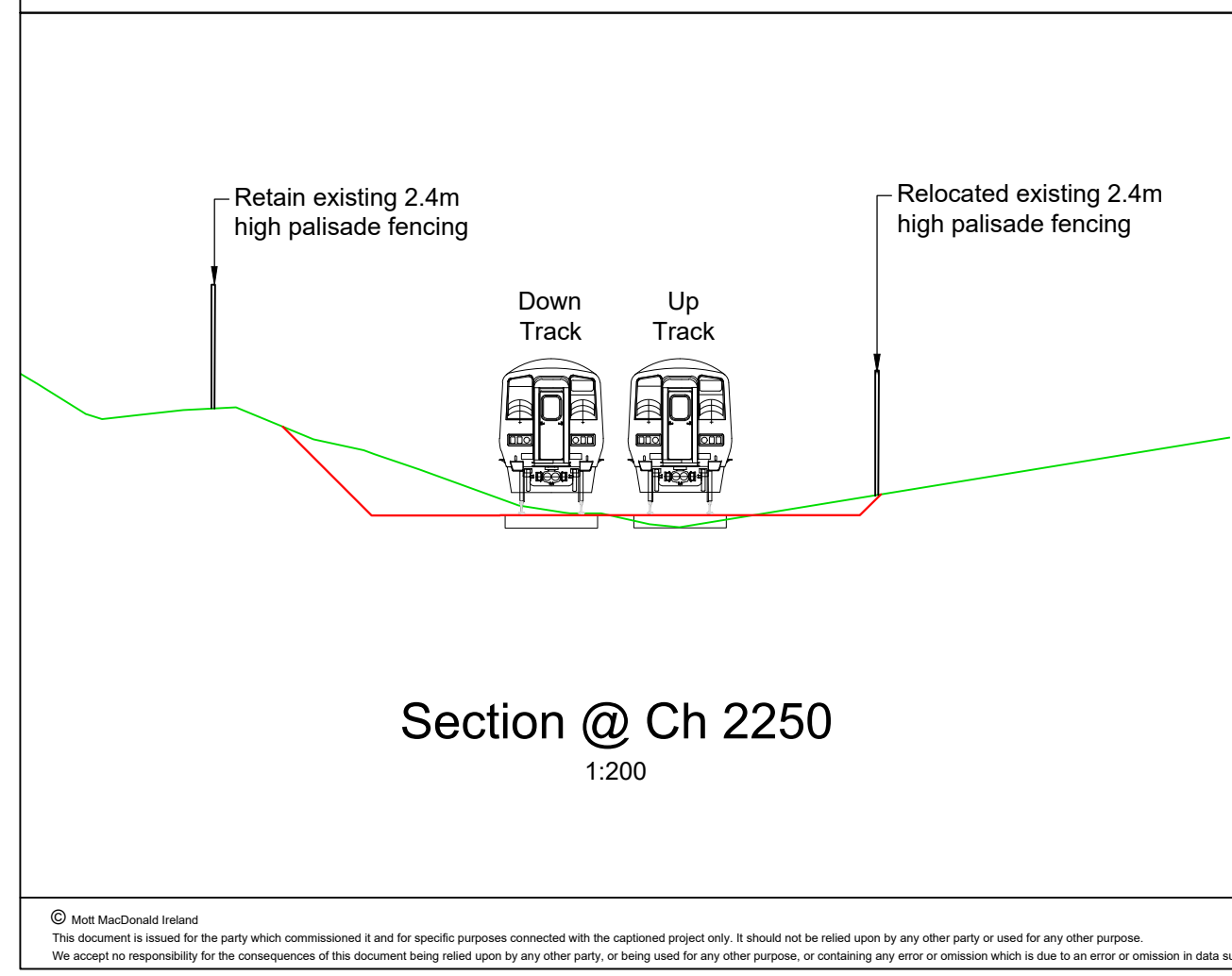
Plan
1:500



Longsection Down Track
1:500



Longsection Up Track
1:500



LEGEND

- EXISTING IE SITE BOUNDARY
- PROPOSED EMBANKMENT IN CUT
- PROPOSED EMBANKMENT IN FILL
- REINFORCED CONCRETE WALL
- GABION WALL
- SHEET PILE WALL
- EXISTING STRUCTURE TO BE DEMOLISHED
- STRUCTURES
- RUNNING LINES
- EXISTING TRACK SLUED OR MODIFIED
- SIDINGS
- PROPOSED TRACKWORK
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P01	10/06/22	RO	NS	JM	Preliminary Design for Public Consultation
P02	22/07/22	RO	NS	JM	Preliminary Design for Public Consultation

Date	Designed	Drawn	Dwg check	Eng check
22/07/22	D. Alderson	R. O'CONNOR	B. BUCKLEY	N. SAMACHETTY

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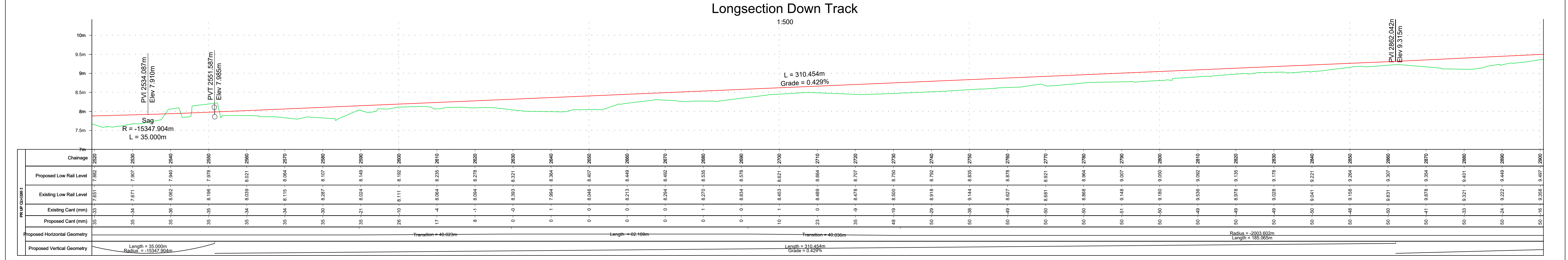
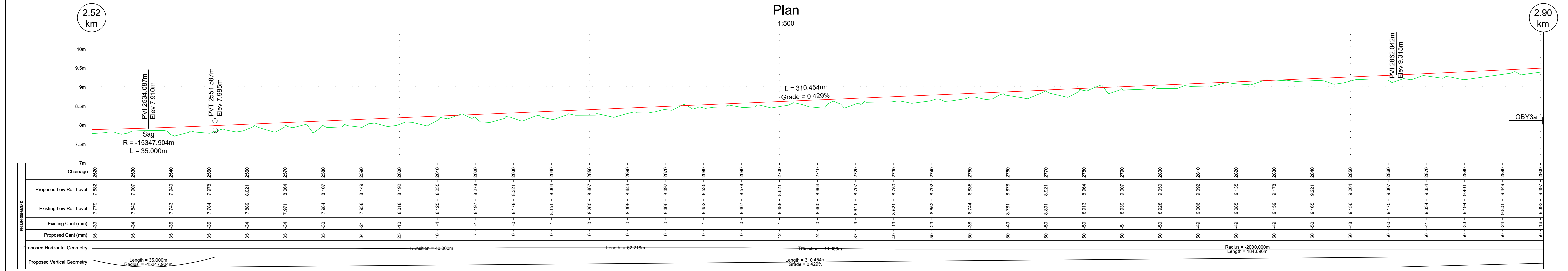
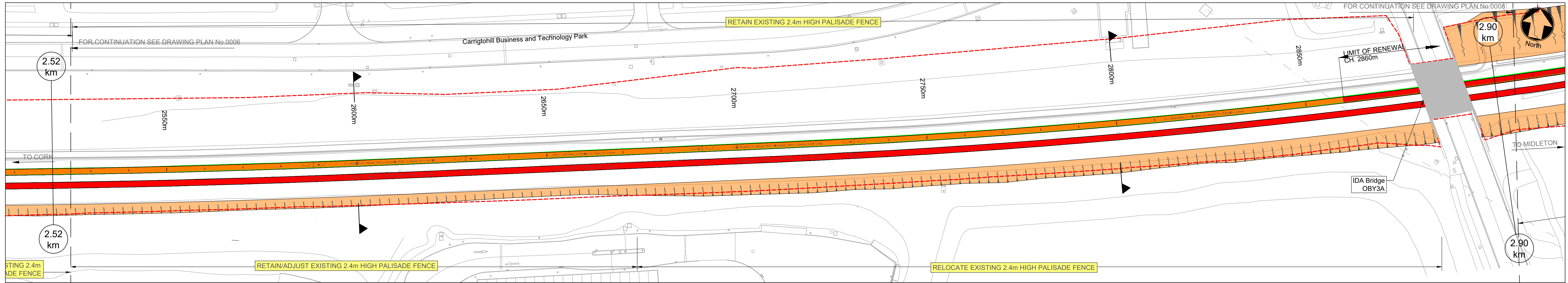
Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title
General Arrangement Permanent Way
Preferred Option

Drawing File Name
C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0006

Sheet
6 of 28

Coordination	Approved	Scale	Acceptance	Purpose	Rev
N.SAMACHETTY	J.MCINERNEY	@ A1 1:500	S	P1	P02



Retain existing 2.4m high palisade fencing

Down Track

Up Track

Retain existing 2.4m high palisade fencing

Section @ Ch 2600

1:200

Retain existing 2.4m high palisade fencing

Down Track

Up Track

Relocated existing 2.4m high palisade fencing

Section @ Ch 2800

1:200

LEGEND

EXISTING IE SITE BOUNDARY

PROPOSED EMBANKMENT IN CUT

PROPOSED EMBANKMENT IN FILL

REINFORCED CONCRETE WALL

GABION WALL

SHEET PILE WALL

EXISTING STRUCTURE TO BE DEMOLISHED

STRUCTURES

RUNNING LINES

EXISTING TRACK SLUED OR MODIFIED

SIDINGS

PROPOSED TRACKWORK

TRACKWORK TO BE REMOVED

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Project Title

CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title

General Arrangement Permanent Way
Preferred Option

Drawing File Name

C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0007

Sheet

7 of 28

Date

22/07/22

Designed

D. Alderson

Drawn

R.O'CONNOR

Dwg check

B.BUCKLEY

Eng check

N.SAMACHETTY

Coordination

N.SAMACHETTY

Approved

J.MCINERNEY

Scale @ A1

1:500

Acceptance

S

Purpose

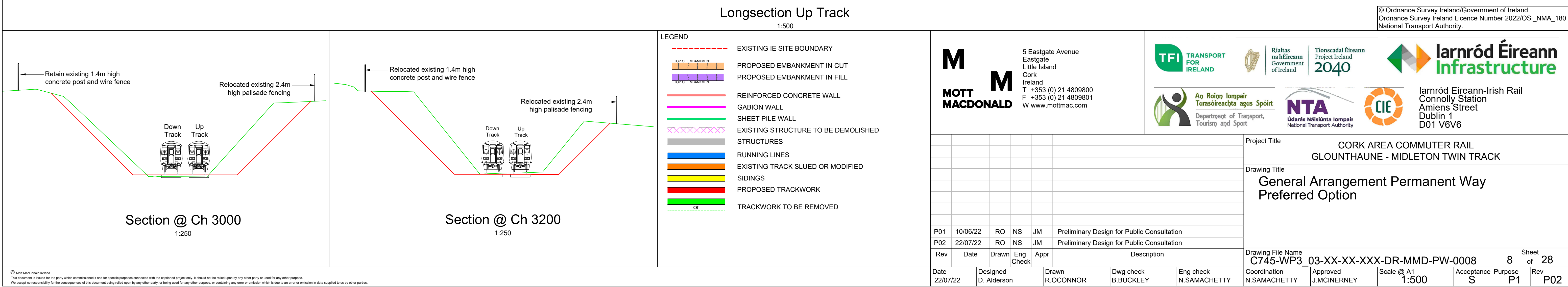
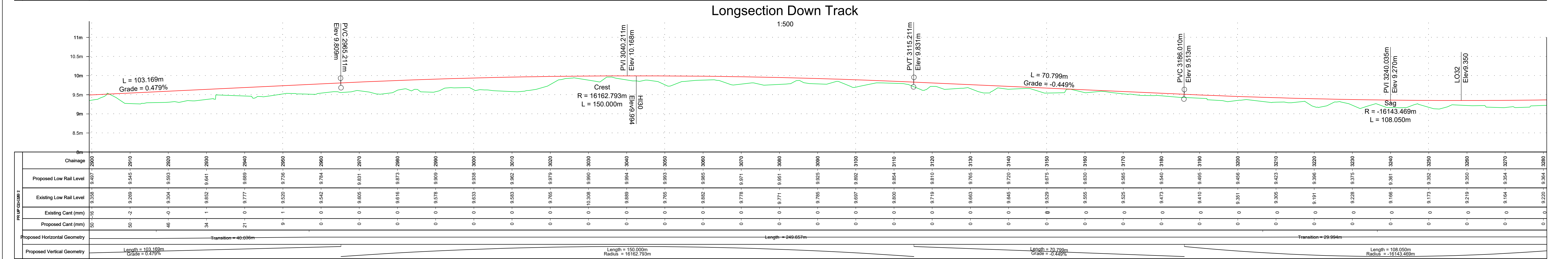
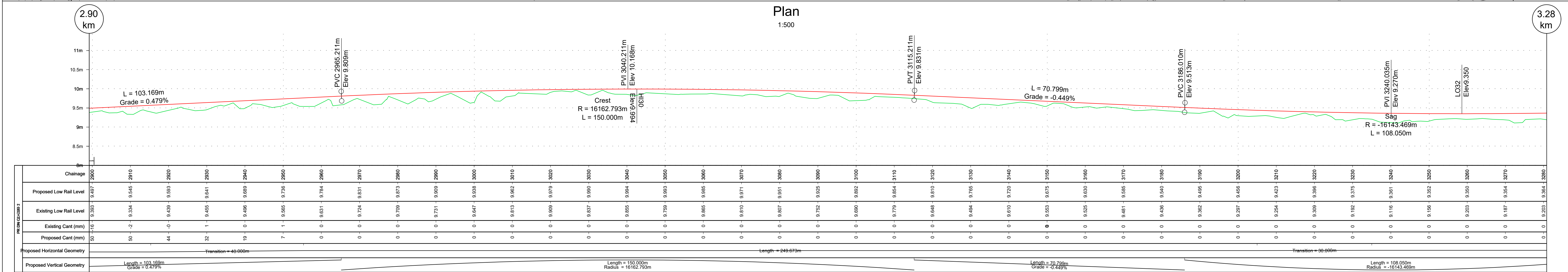
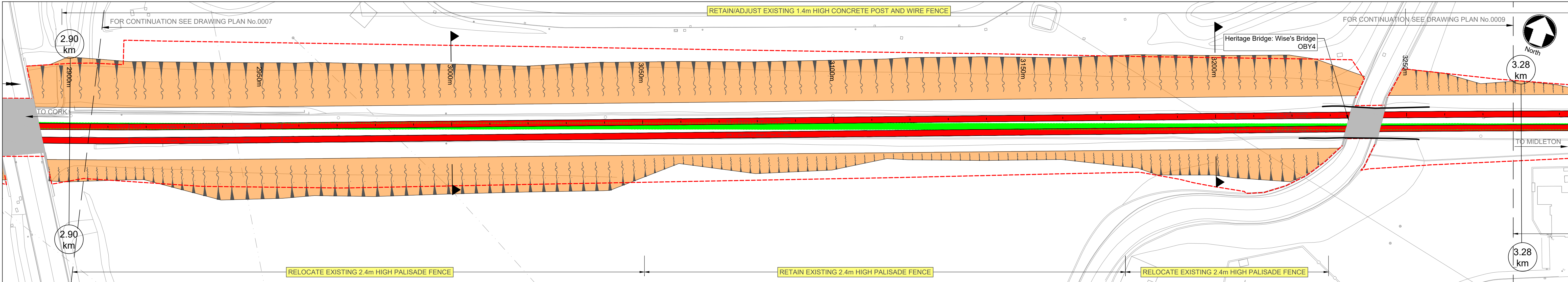
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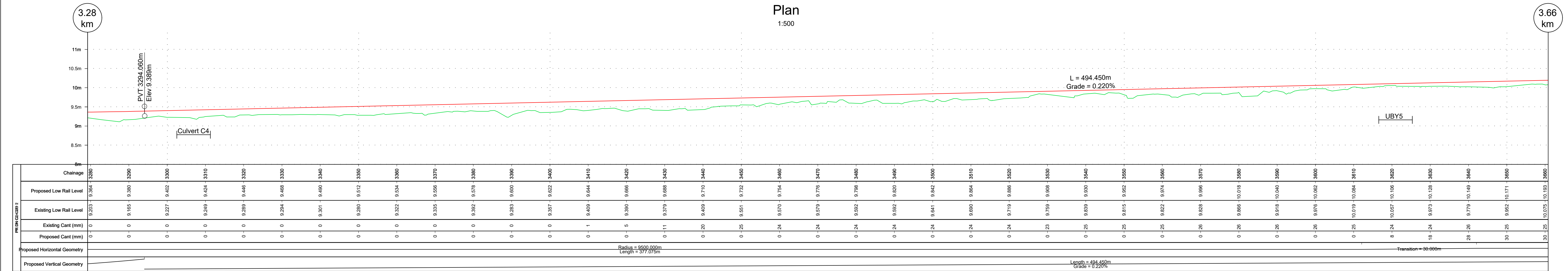
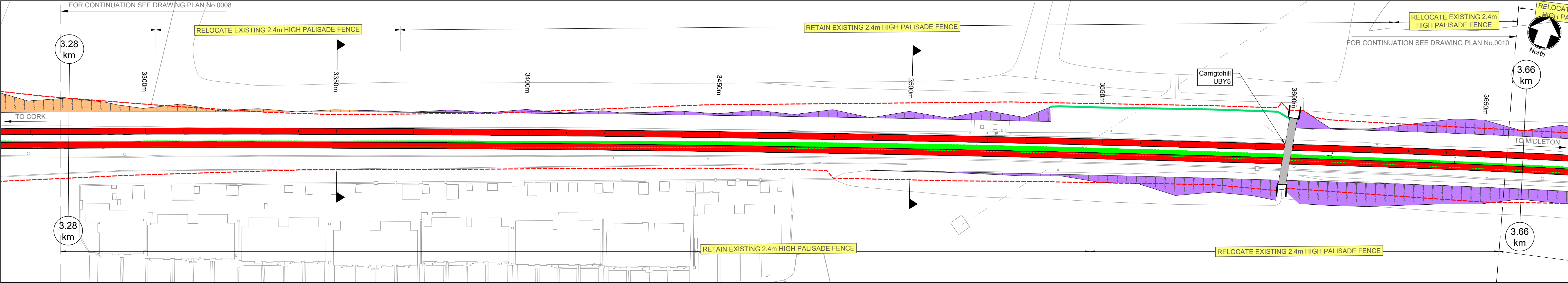
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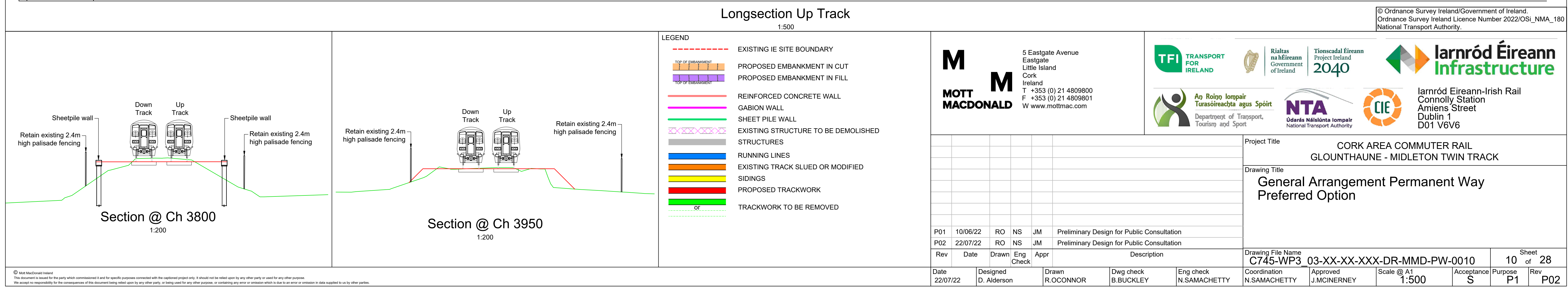
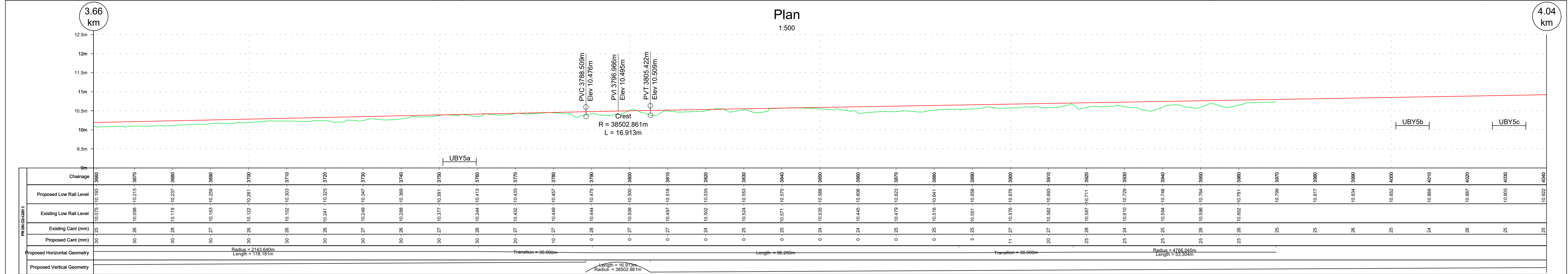
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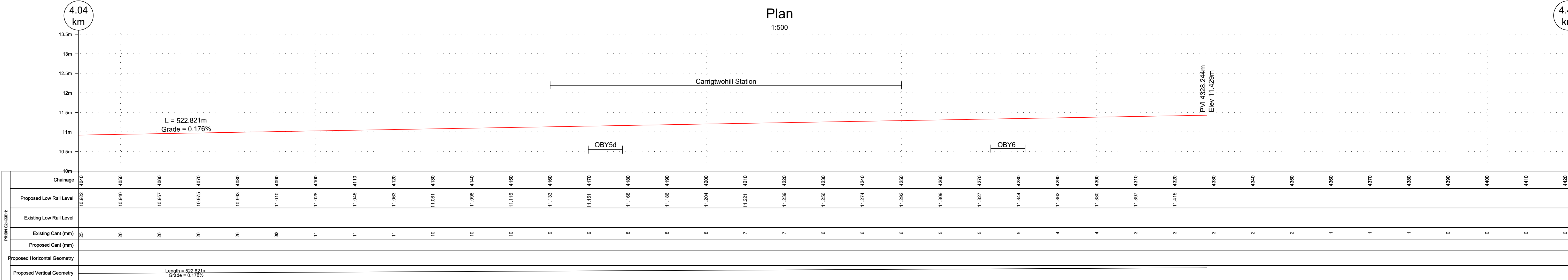
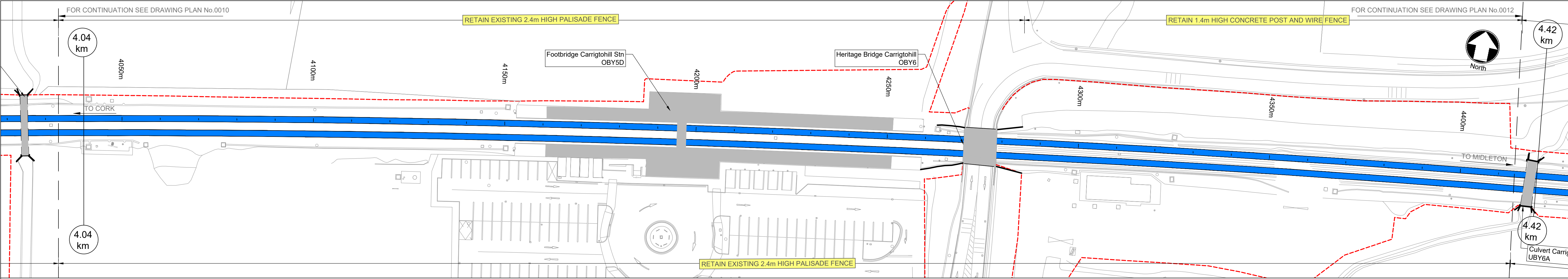
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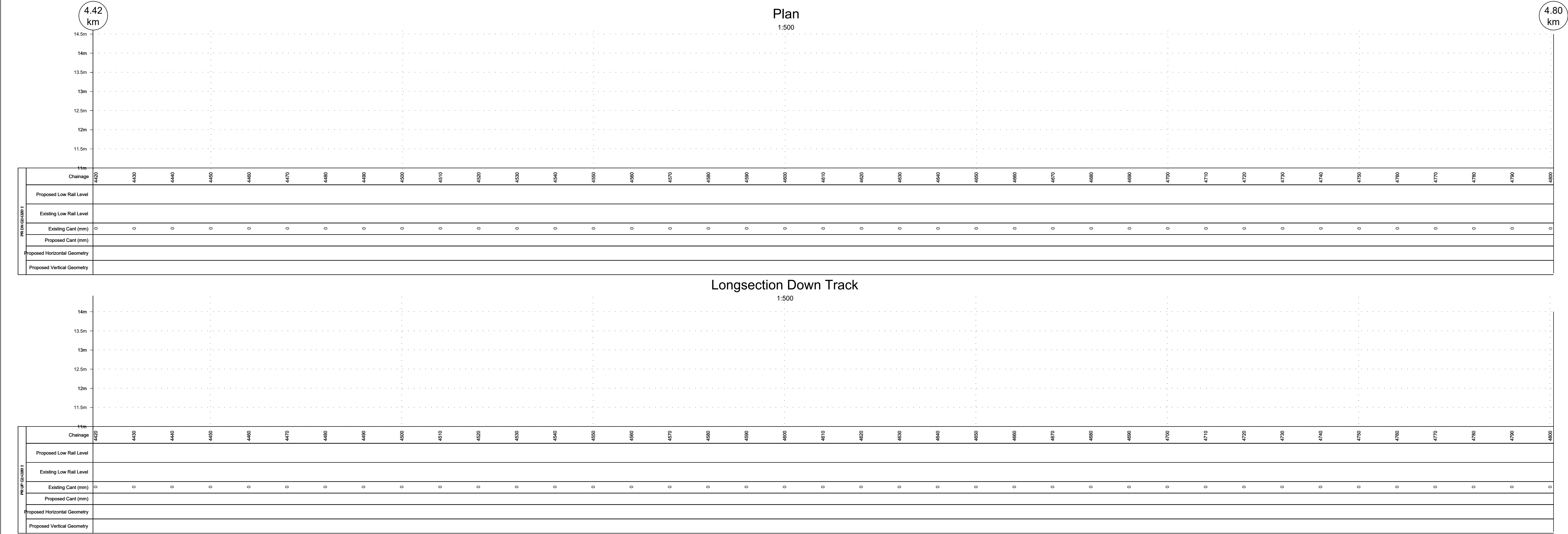
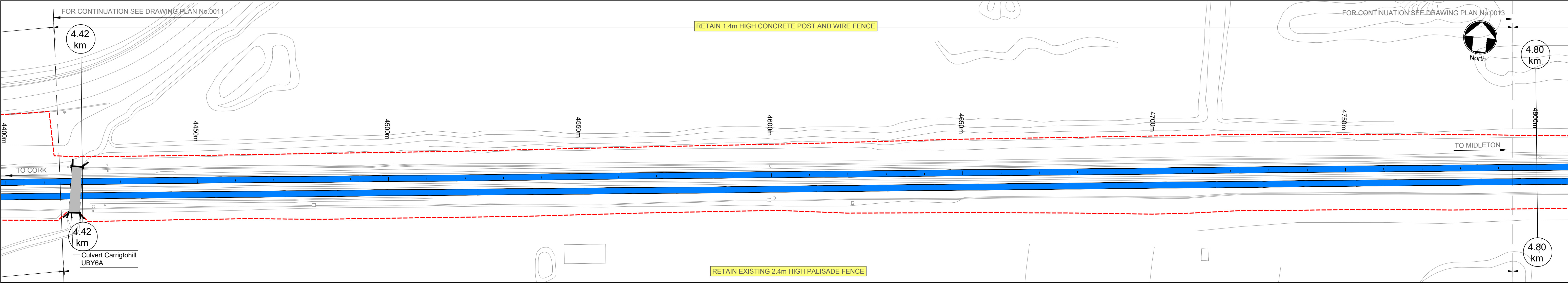
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No change to existing cross-section

No change to existing cross-section

LEGEND

- EXISTING IE SITE BOUNDARY
- PROPOSED EMBANKMENT IN CUT
- PROPOSED EMBANKMENT IN FILL
- REINFORCED CONCRETE WALL
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Project Ireland 2040

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National Transport Authority

Iarnród Éireann Infrastructure

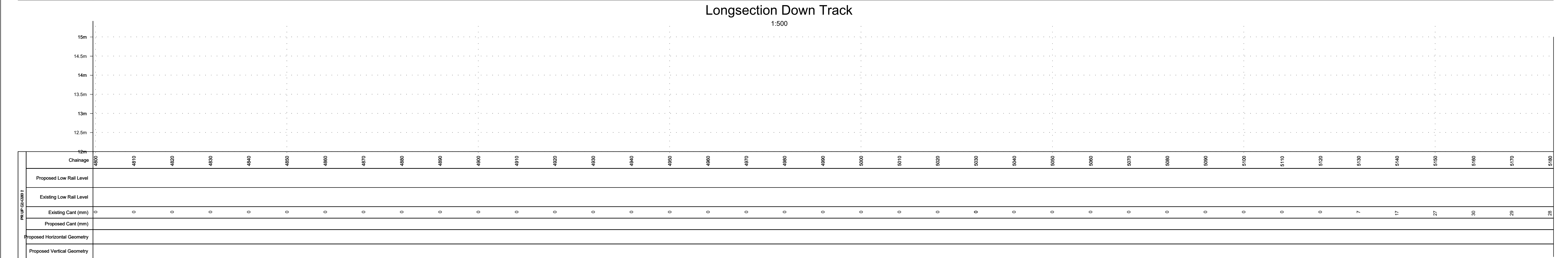
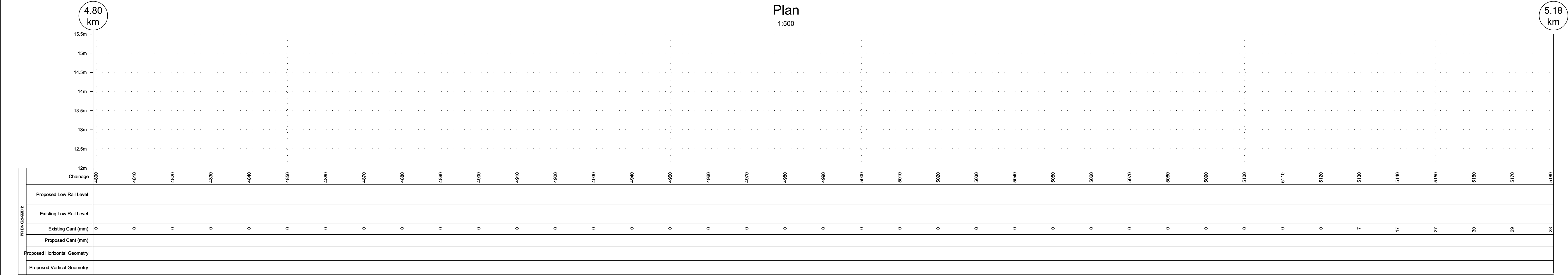
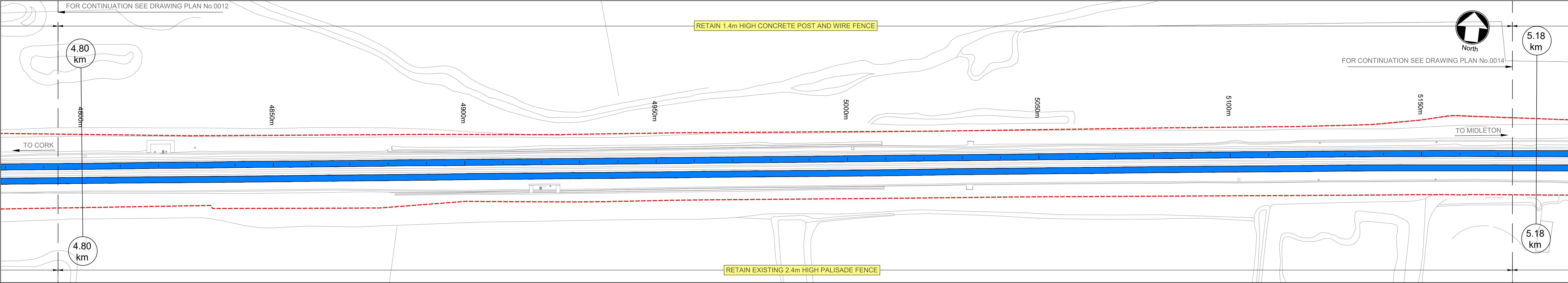
Iarnród Éireann-Irish Rail
Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Project Title						CORK AREA COMMUTER RAIL GLOUNTHAUNE - MIDLETON TWIN TRACK					
Drawing Title						General Arrangement Permanent Way Preferred Option					
Drawing File Name						C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0012					
Date						22/07/22					
Designed						D. Alderson					
Drawn						R.O'CONNOR					
Dwg check						B.BUCKLEY					
Eng check						N.SAMACHETTY					
Coordination						N.SAMACHETTY					
Approved						J.MCINERNEY					
Scale @ A1						1:500					
Acceptance						S					
Purpose						P1					
Rev						P02					

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C:\p\local\cork area commuter\d0329346\C745-WP3_03-XX-XX-XXX-DR-MMD-PW-0012.dwg Jul 22, 2022 - 5:15pm OCO30353

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Longsection Up Track
1:500

15m 14.5m 14m 13.5m 13m 12.5m

Chainage	4800	4810	4820	4830	4840	4850	4860	4870	4880	4890	4900	4910	4920	4930	4940	4950	4960	4970	4980	4990	5000	5010	5020	5030	5040	5050	5060	5070	5080	5090	5100	5110	5120	5130	5140	5150	5160	5170	5180			
Proposed Low Rail Level																																										
Existing Low Rail Level																																										
Existing Cant (mm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	17	27	30	29	25			
Proposed Cant (mm)																																										
Proposed Horizontal Geometry																																										
Proposed Vertical Geometry																																										

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Infrastructure

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Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title
General Arrangement Permanent Way
Preferred Option

Date	22/07/22	Designed	D. Alderson	Drawn	R.O'CONNOR	Dwg check	B.BUCKLEY	Eng check	N.SAMACHETTY	Coordination	N.SAMACHETTY	Approved	J.MCINERNEY	Scale @ A1	1:500	Acceptance	S	Purpose	P1	Rev	P02
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Sheet
13 of 28

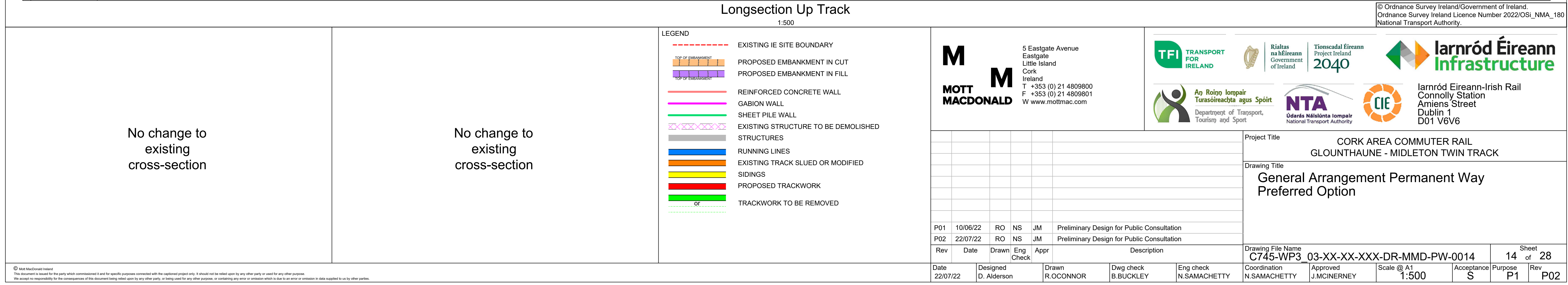
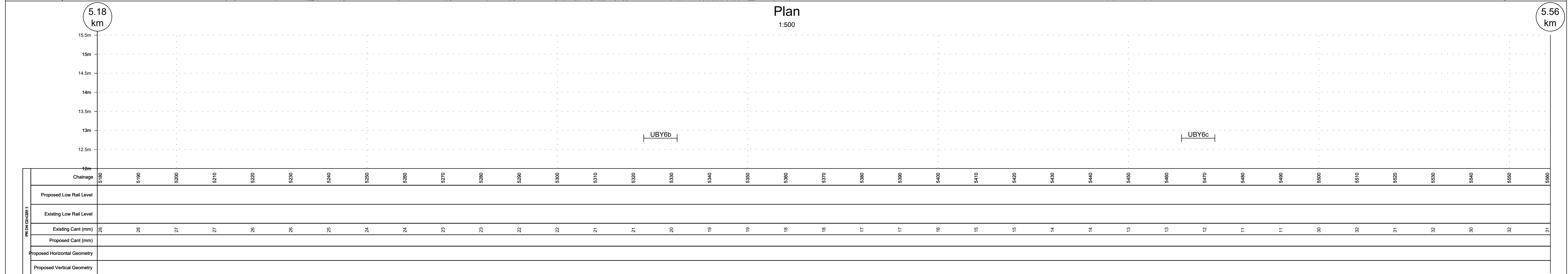
No change to
existing
cross-section

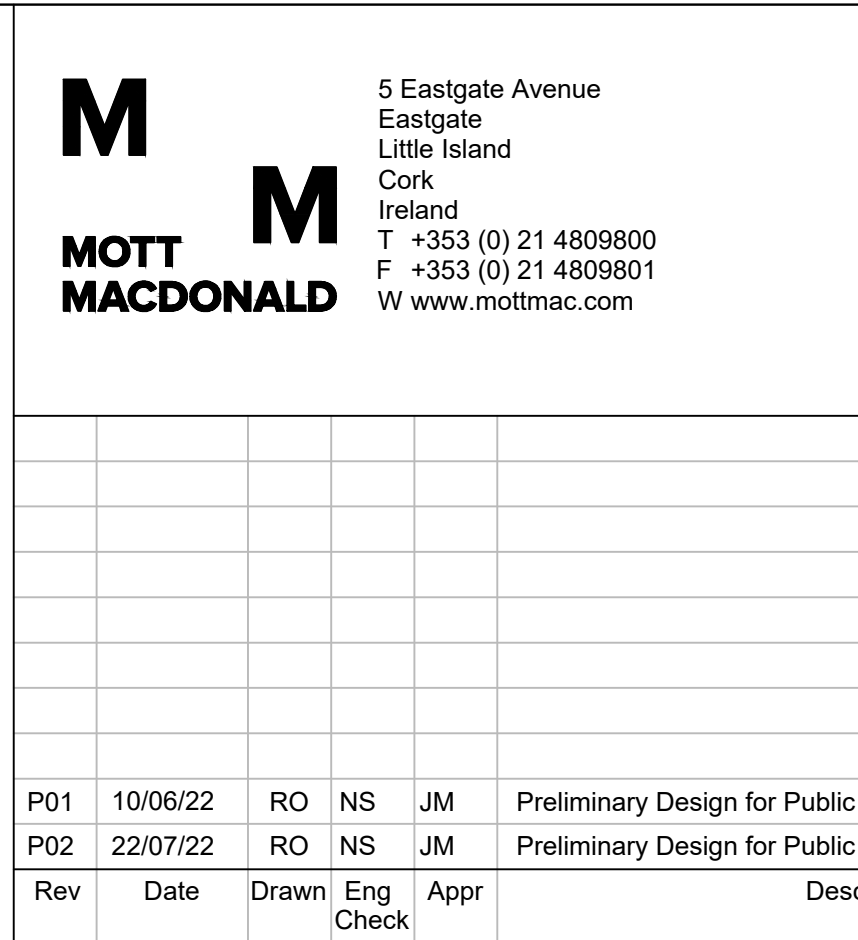
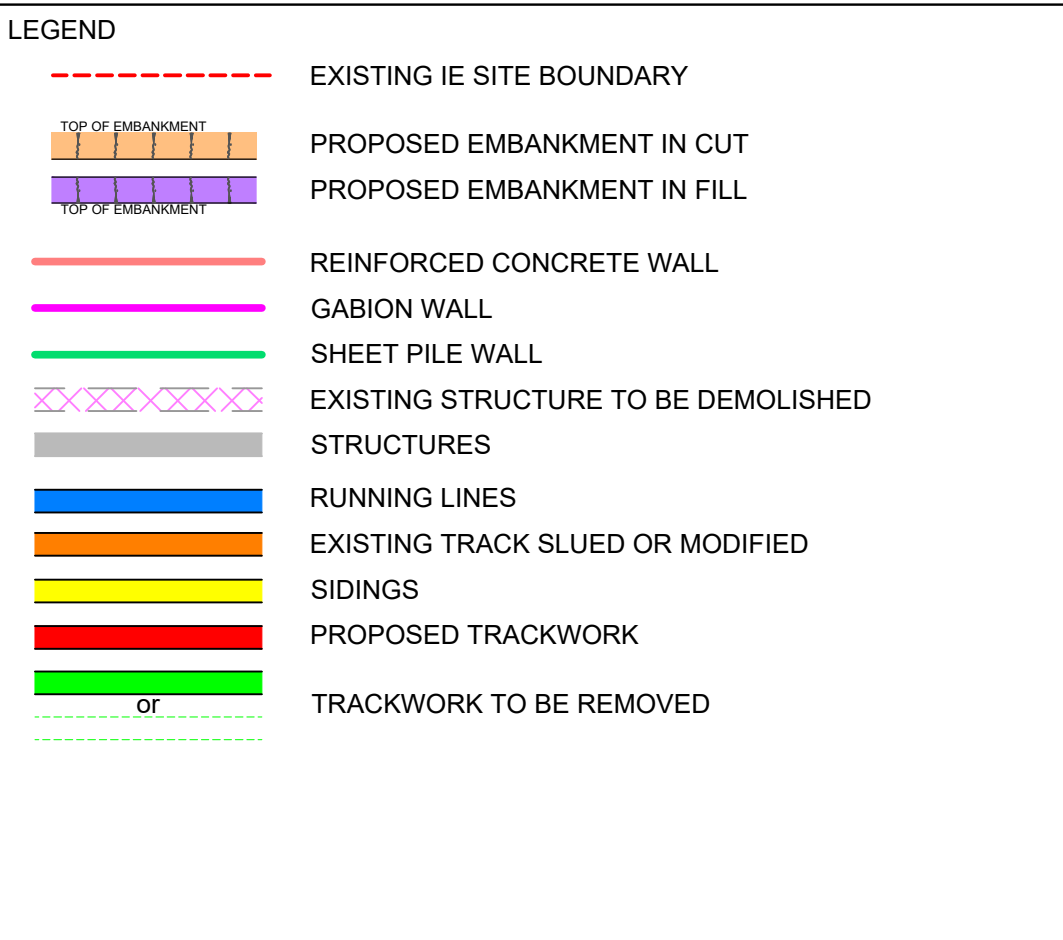
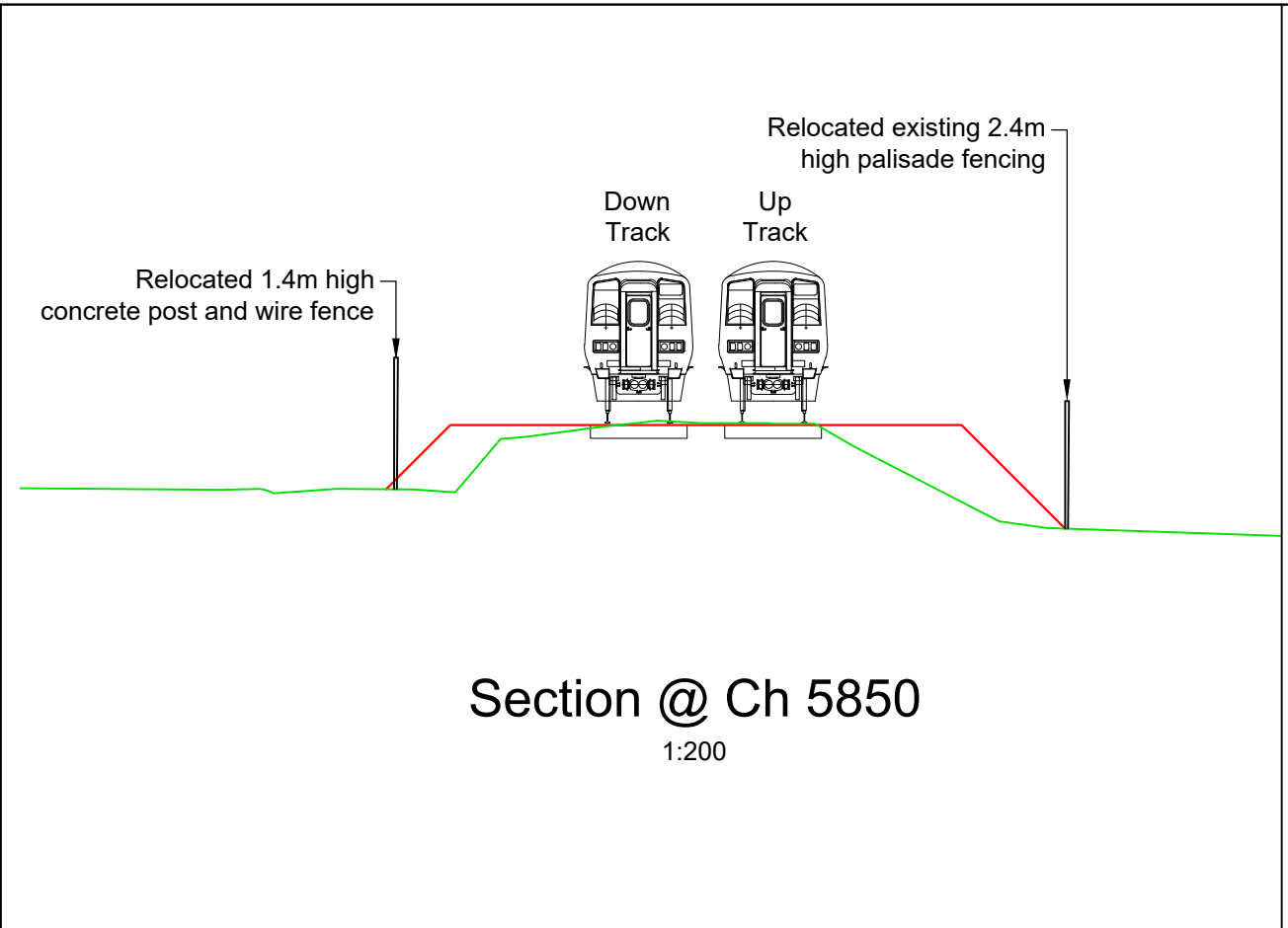
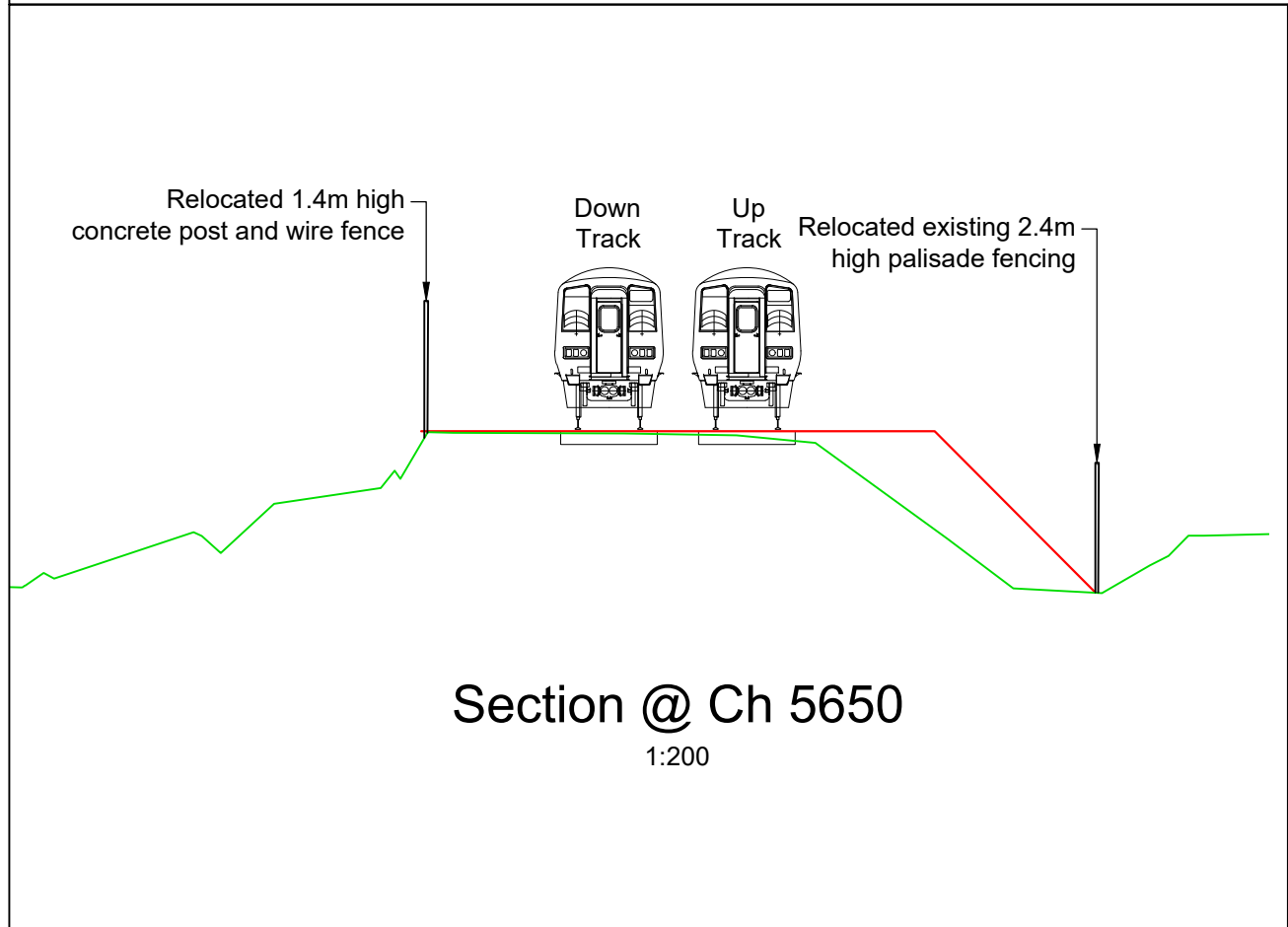
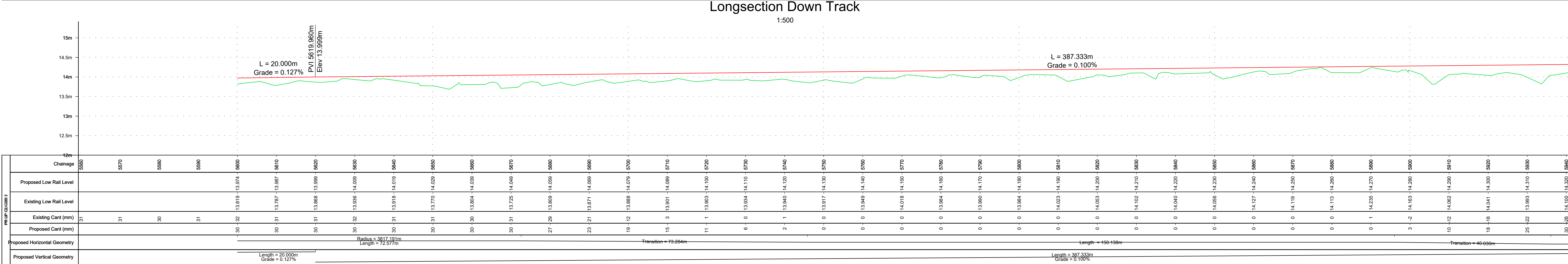
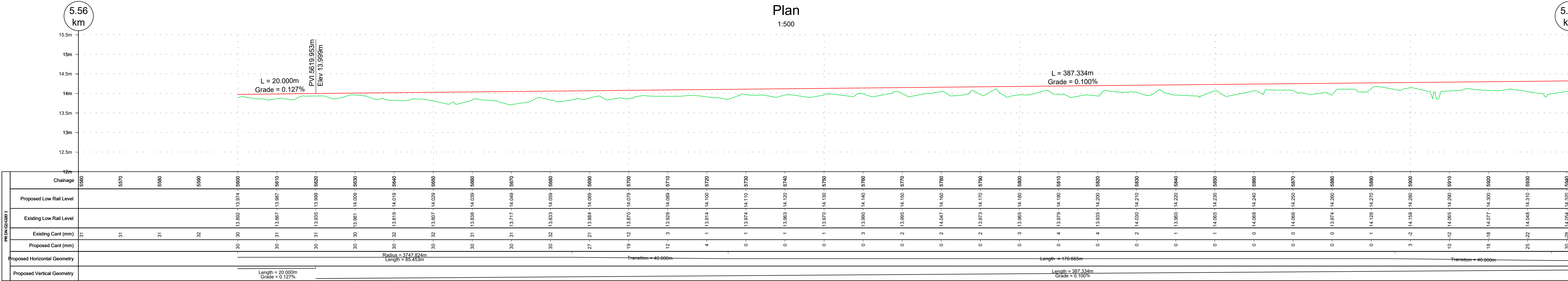
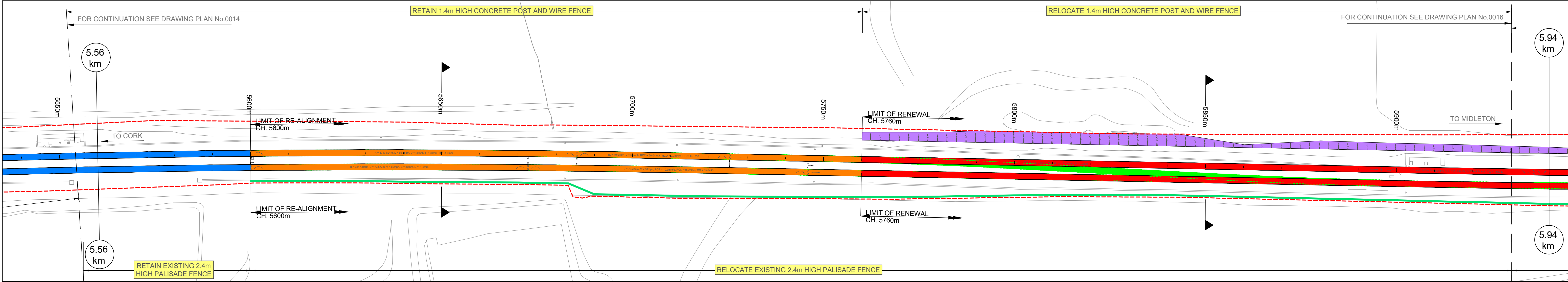
No change to
existing
cross-section

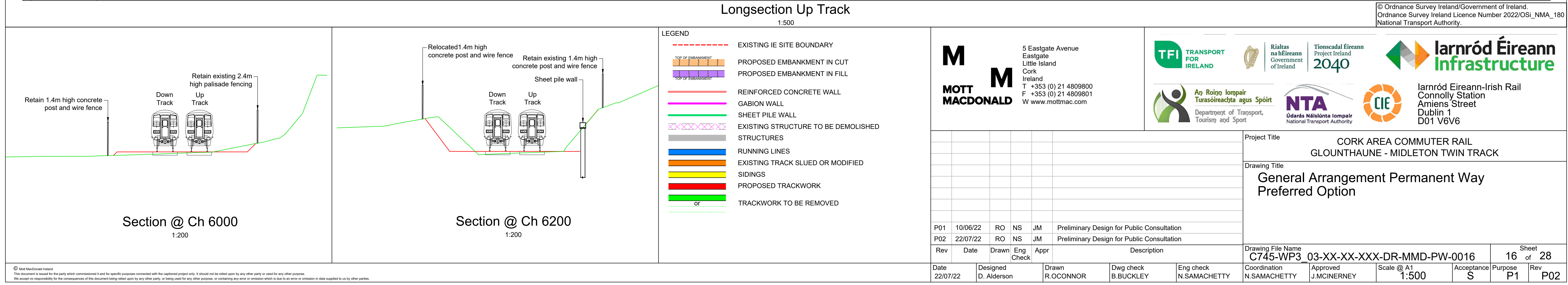
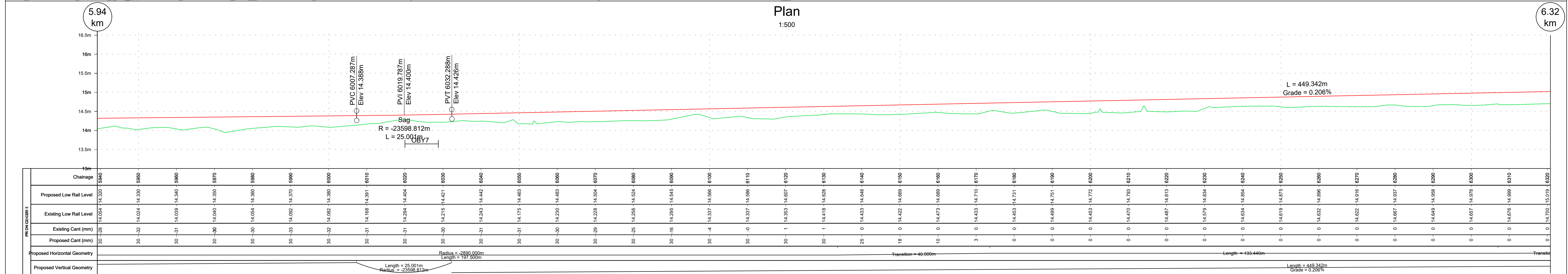
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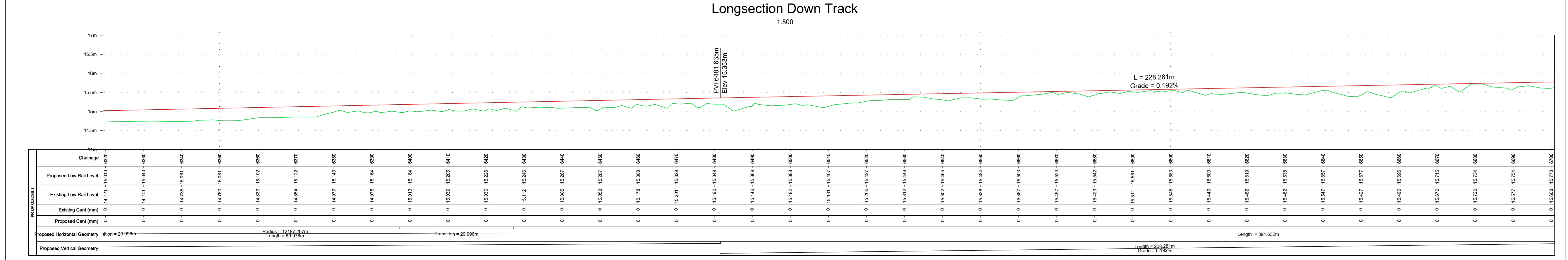
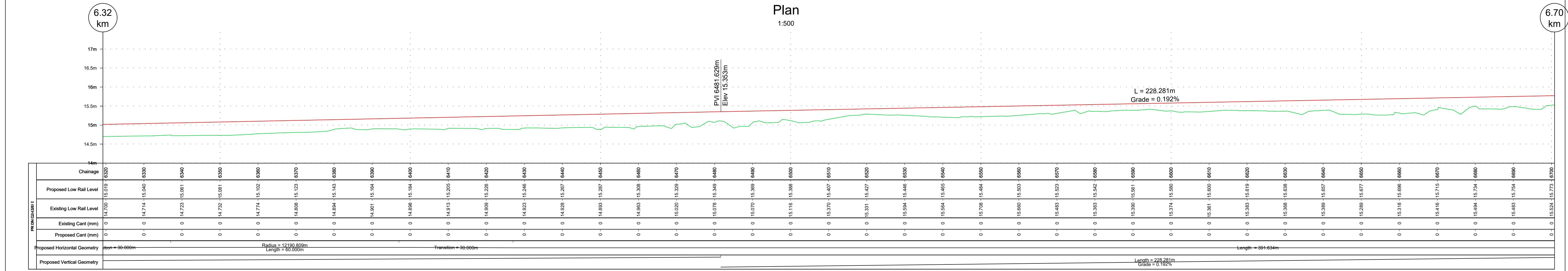
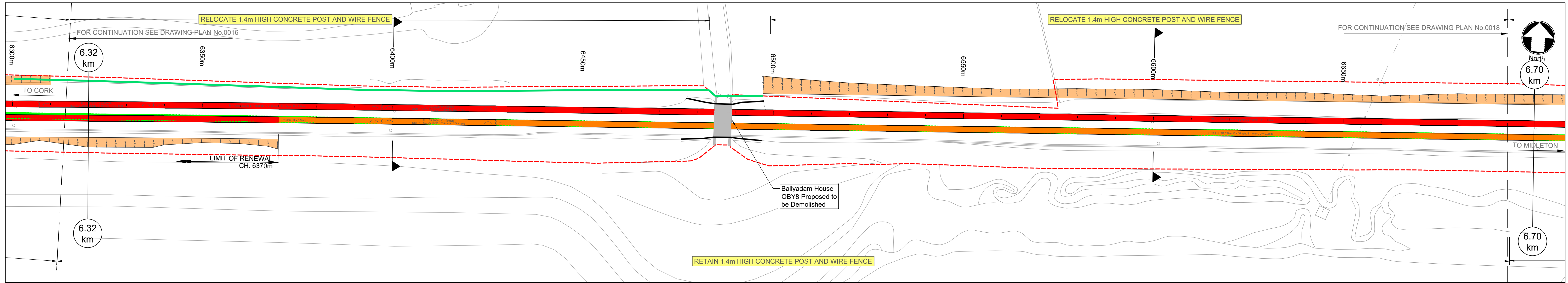
- EXISTING IE SITE BOUNDARY
- PROPOSED EMBANKMENT IN CUT
- PROPOSED EMBANKMENT IN FILL
- REINFORCED CONCRETE WALL
- GABION WALL
- SHEET PILE WALL
- EXISTING STRUCTURE TO BE DEMOLISHED
- STRUCTURES
- RUNNING LINES
- EXISTING TRACK SLUED OR MODIFIED
- SIDINGS
- PROPOSED TRACKWORK
- TRACKWORK TO BE REMOVED

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Relocated existing 1.4m high concrete post and wire fence

Retain existing 1.4m high concrete post and wire fence

Down Track

Up Track

Sheetpile wall

Section @ Ch 6400

1:200

Relocated 1.4m high concrete post and wire fence

Retain existing 1.4m high concrete post and wire fence

Down Track

Up Track

Section @ Ch 6600

1:200

LEGEND

EXISTING IE SITE BOUNDARY

PROPOSED EMBANKMENT IN CUT

PROPOSED EMBANKMENT IN FILL

REINFORCED CONCRETE WALL

GABION WALL

SHEET PILE WALL

EXISTING STRUCTURE TO BE DEMOLISHED

STRUCTURES

RUNNING LINES

EXISTING TRACK SLUED OR MODIFIED

SIDINGS

PROPOSED TRACKWORK

TRACKWORK TO BE REMOVED

M

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CIE

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Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Project Title

CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDDLETON TWIN TRACK

Drawing Title

General Arrangement Permanent Way
Preferred Option

Drawing File Name

C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0017

Sheet

17 of 28

Rev

Date

Drawn

Eng Check

Appr

Description

Date

22/07/22

Designed

D. Alderson

Drawn

R.O'CONNOR

Dwg check

B.BUCKLEY

Eng check

N.SAMACHETTY

Coordination

N.SAMACHETTY

Approved

J.MCINERNEY

Scale @ A1

1:500

Acceptance

S

Purpose

P1

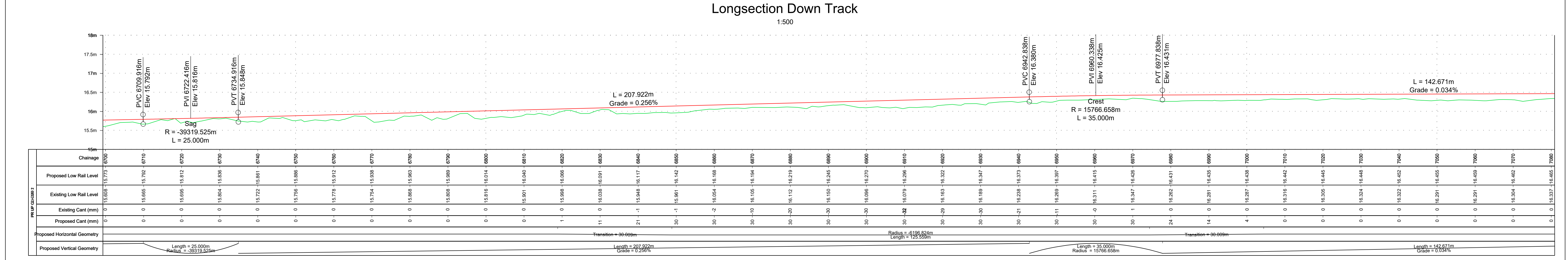
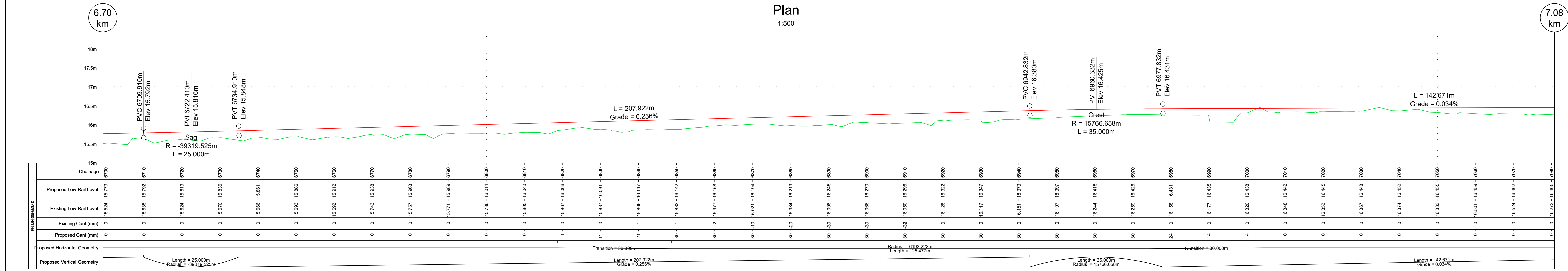
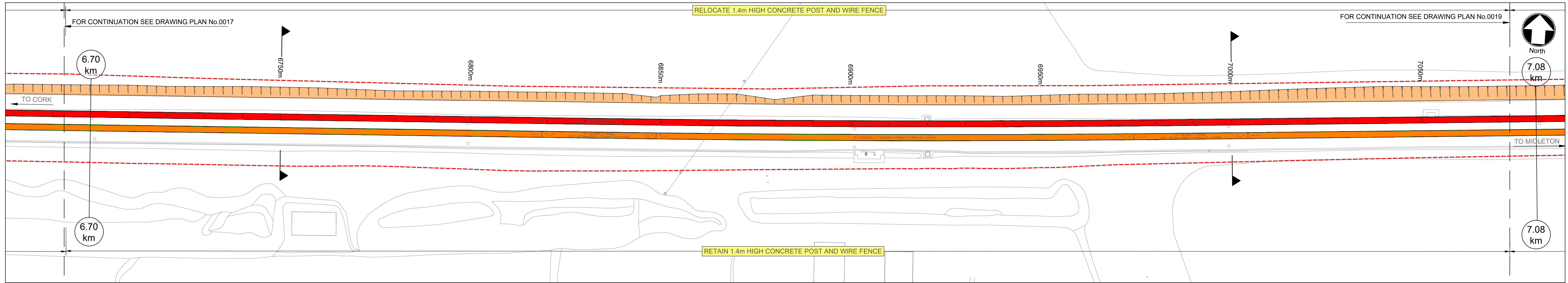
Rev

P02

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Longsection Up Track
1:500

18m

17.5m

17m

16.5m

16m

15.5m

15m

PVC 6709.916m
Elev 15.792m

PVI 6722.416m
Elev 15.816m

PVT 6734.916m
Elev 15.946m

Sag
R = -39319.525m
L = 25.000m

L = 207.922m
Grade = 0.256%

Crest
R = 15766.658m
L = 35.000m

PVC 6942.838m
Elev 16.350m

PVI 6960.338m
Elev 16.425m

PVT 6977.838m
Elev 16.431m

L = 142.671m
Grade = 0.034%

Chainage	Proposed Low Rail Level	Existing Low Rail Level	Existing Cant (mm)	Proposed Cant (mm)
6700	15.773	15.508	0	0
6710	15.792	15.665	0	0
6720	15.812	15.655	0	0
6730	15.836	15.804	0	0
6740	15.861	15.722	0	0
6750	15.886	15.796	0	0
6760	15.912	15.778	0	0
6770	15.938	15.754	0	0
6780	15.963	15.868	0	0
6790	15.989	15.808	0	0
6800	16.014	15.816	0	0
6810	16.040	15.901	0	0
6820	16.066	15.998	1	1
6830	16.091	16.038	11	11
6840	16.117	15.948	21	21
6850	16.142	15.961	30	30
6860	16.168	16.054	30	30
6870	16.194	16.105	30	30
6880	16.219	16.112	30	30
6890	16.245	16.150	30	30
6900	16.270	16.096	30	30
6910	16.296	16.079	30	30
6920	16.322	16.163	30	30
6930	16.347	16.189	30	30
6940	16.373	16.238	30	30
6950	16.397	16.269	30	30
6960	16.415	16.311	30	30
6970	16.426	16.347	30	30
6980	16.431	16.252	24	24
6990	16.435	16.281	14	14
7000	16.438	16.287	4	4
7010	16.442	16.316	0	0
7020	16.452	16.306	0	0
7030	16.455	16.324	0	0
7040	16.459	16.291	0	0
7050	16.465	16.291	0	0
7060	16.469	16.304	0	0
7070	16.462	16.337	0	0
7080	16.465	16.455	0	0

Transition = 30.000m

Length = 25.000m
Radius = -39319.525m

Length = 207.922m
Grade = 0.256%

Radius = -6196.824m
Length = 125.559m

Length = 35.000m
Radius = 15766.658m

Transition = 30.000m

Length = 142.671m
Grade = 0.034%

Proposed Horizontal Geometry

Proposed Vertical Geometry

Relocated 1.4m high concrete post and wire fence

Retain existing 1.4m high concrete post and wire fence

Down Track

Up Track

Section @ Ch 6750
1:200

Section @ Ch 7000
1:200

LEGEND

- EXISTING IE SITE BOUNDARY
- PROPOSED EMBANKMENT IN CUT
- PROPOSED EMBANKMENT IN FILL
- REINFORCED CONCRETE WALL
- GABION WALL
- SHEET PILE WALL
- EXISTING STRUCTURE TO BE DEMOLISHED
- STRUCTURES
- RUNNING LINES
- EXISTING TRACK SLUED OR MODIFIED
- SIDINGS
- PROPOSED TRACKWORK
- TRACKWORK TO BE REMOVED

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D01 V6V6

Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDDLETON TWIN TRACK

Drawing Title
General Arrangement Permanent Way
Preferred Option

Drawing File Name
C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0018

Sheet
18 of 28

Rev
P01

Date
22/07/22

Drawn
D. Alderson

Eng Check
R. O'CONNOR

Appr
D. Alderson

Description
Preliminary Design for Public Consultation

Dwg check
B. BUCKLEY

Eng check
N. SAMACHETTY

Coordination
N. SAMACHETTY

Approved
J. MCINERNEY

Scale @ A1
1:500

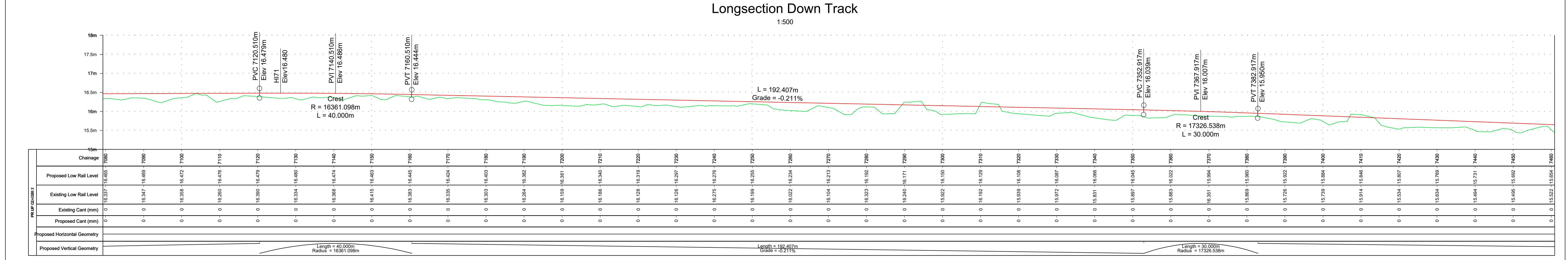
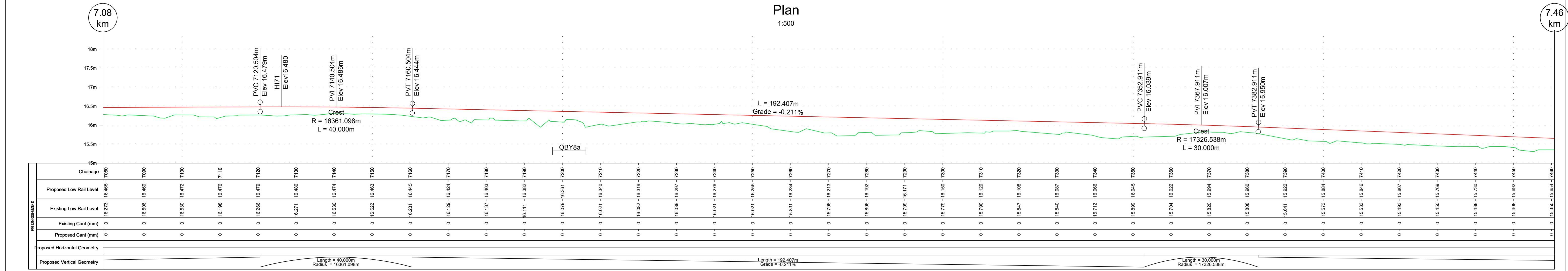
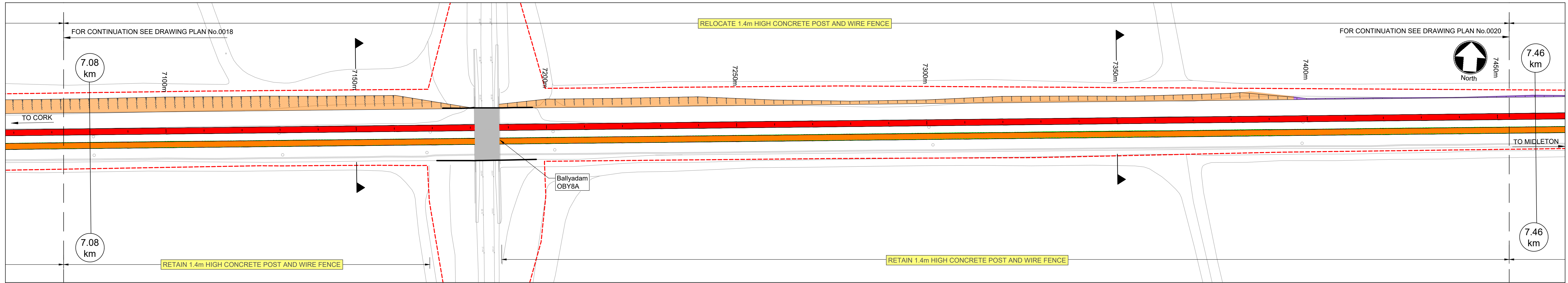
Acceptance
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Purpose
P1

Rev
P02

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Longsection Up Track 1:500

18m

17.5m

17m

16.5m

16m

15.5m

15m

Chainage

Proposed Low Rail Level

Existing Low Rail Level

Existing Cant (mm)

Proposed Cant (mm)

Proposed Horizontal Geometry

Proposed Vertical Geometry

Length = 40.000m
Radius = 16361.098m

Length = 192.407m
Grade = -0.211%

Length = 30.000m
Radius = 17326.538m

PVC 7120.510m
Elev 16.479m

HI71
Elev 16.480

PVI 7140.510m
Elev 16.486m

PVT 7160.510m
Elev 16.444m

L = 192.407m
Grade = -0.211%

Crest
R = 17326.538m
L = 30.000m

PVC 7352.917m
Elev 16.039m

PVI 7367.917m
Elev 16.007m

PVT 7382.917m
Elev 15.950m

Section @ Ch 7150 1:200

Section @ Ch 7350 1:200

Relocated 1.4m high concrete post and wire fence

Retain existing 1.4m high concrete post and wire fence

Down Track

Up Track

Relocated 1.4m high concrete post and wire fence

Retain 1.4m high concrete post and wire fence

Down Track

Up Track

LEGEND

- EXISTING IE SITE BOUNDARY
- PROPOSED EMBANKMENT IN CUT
- PROPOSED EMBANKMENT IN FILL
- REINFORCED CONCRETE WALL
- GABION WALL
- SHEET PILE WALL
- EXISTING STRUCTURE TO BE DEMOLISHED
- STRUCTURES
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Department of Transport, Tourism and Sport

NTA Údarás Náisiúnta Iompair National Transport Authority

larnród Éireann-Irish Rail
Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Project Title
CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title
General Arrangement Permanent Way
Preferred Option

Drawing File Name
C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0019

Sheet
19 of 28

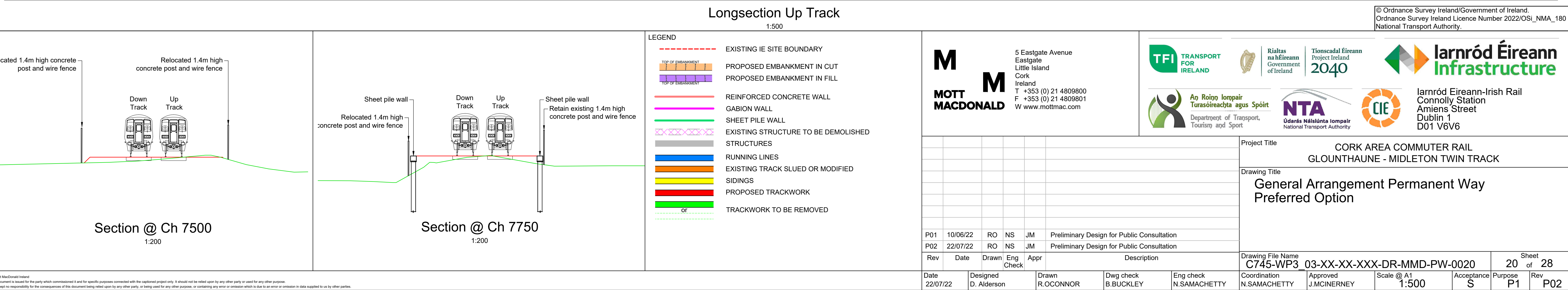
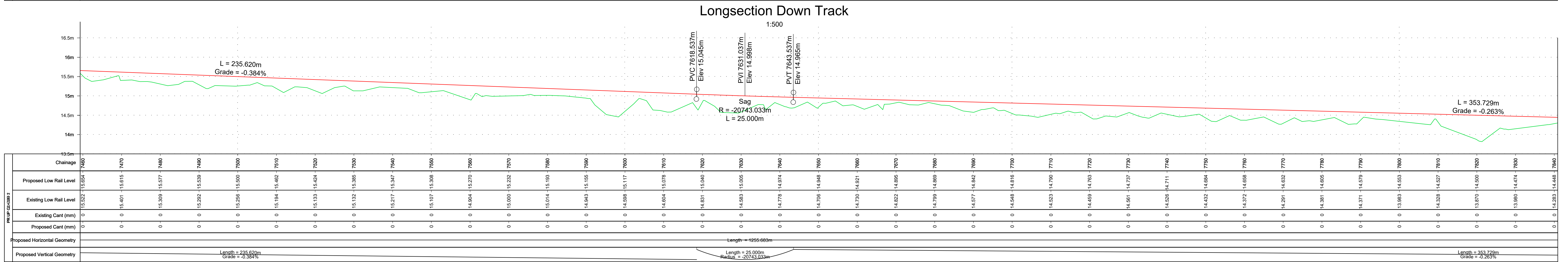
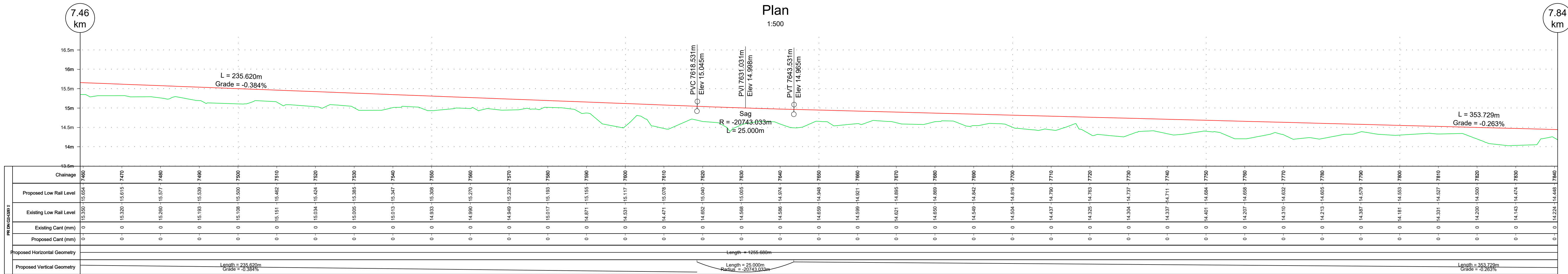
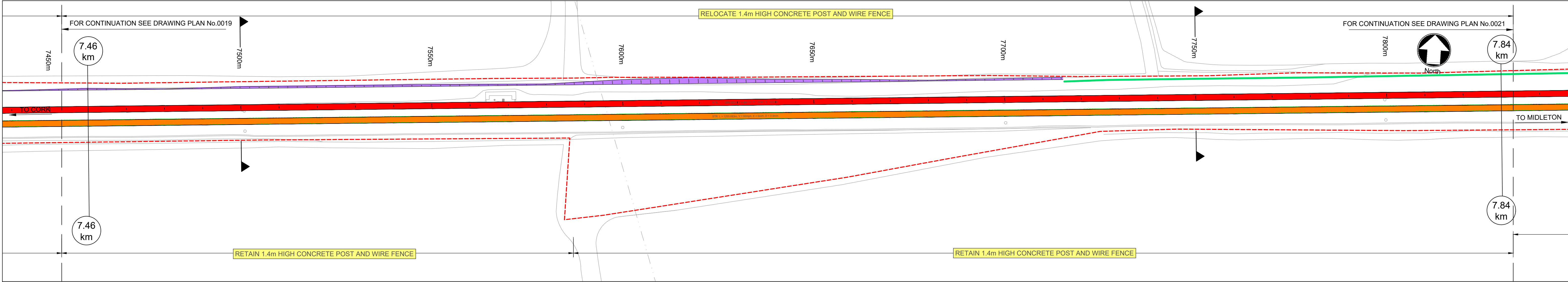
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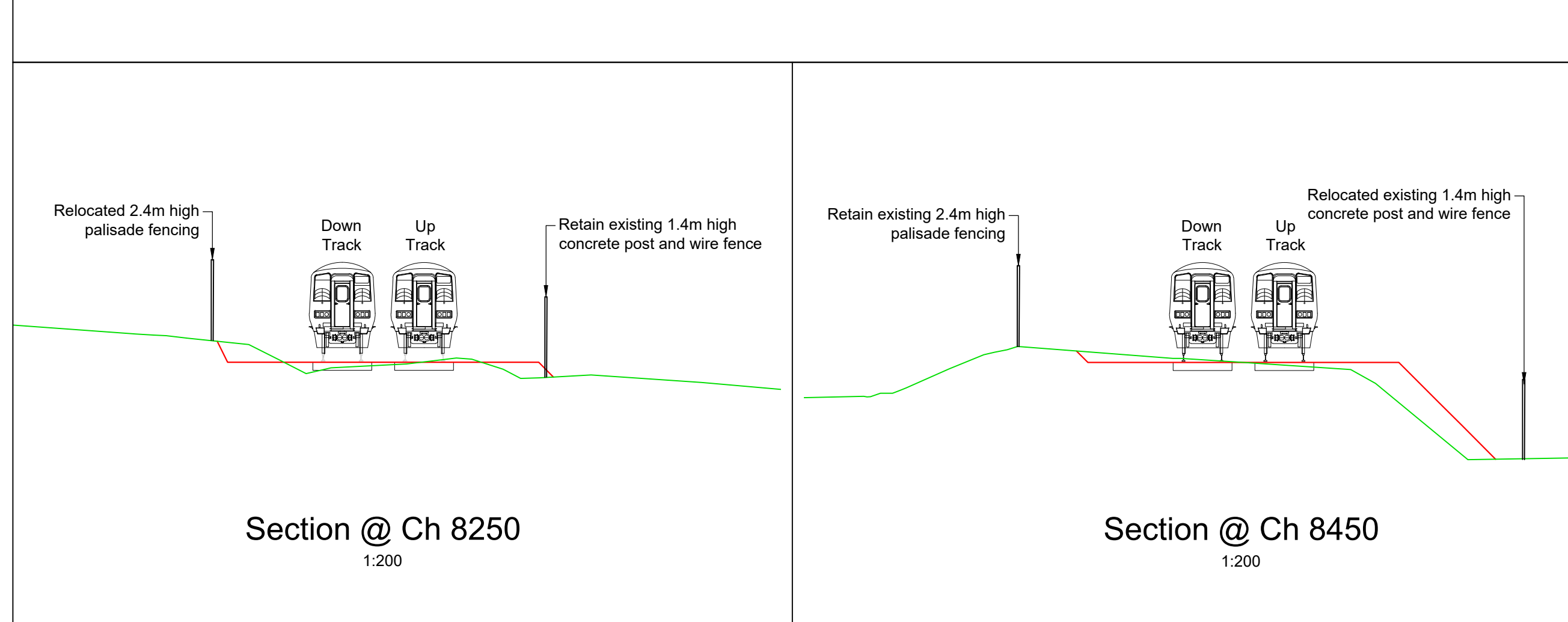
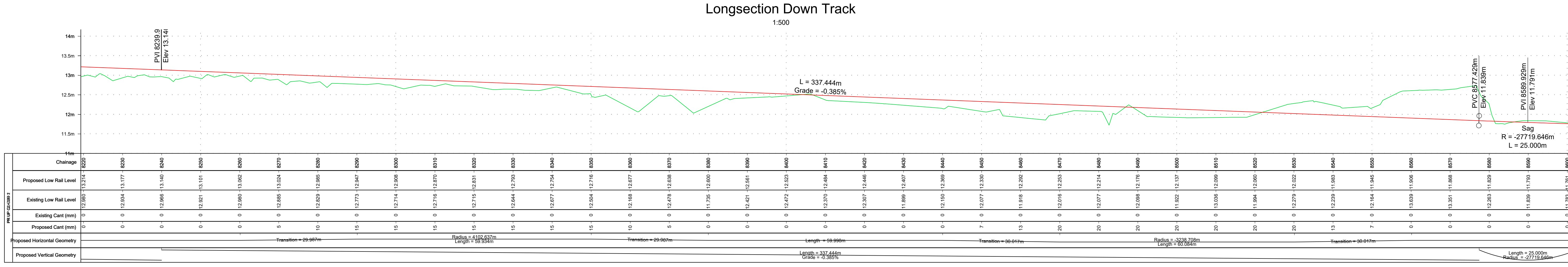
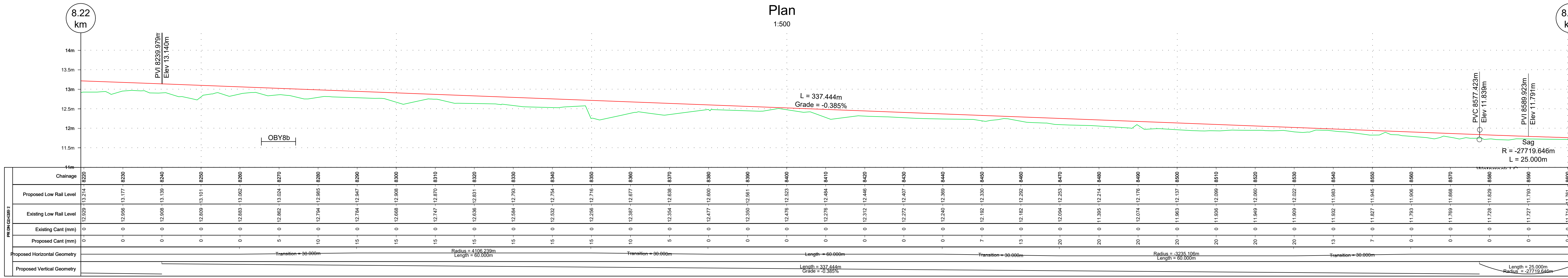
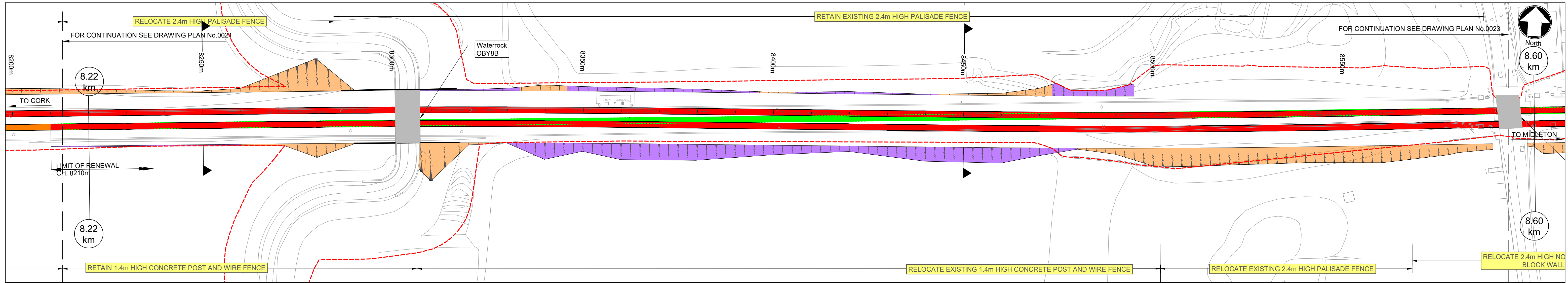
Date 22/07/22 Designed D. Alderson Drawn R.O'CONNOR Dwg check B.BUCKLEY Eng check N.SAMACHETTY

Coordination N.SAMACHETTY Approved J.MCINERNEY Scale @ A1 1:500 Acceptance S Purpose P1 Rev P02

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LEGEND

	EXISTING IE SITE BOUNDARY
	PROPOSED EMBANKMENT IN CUT
	PROPOSED EMBANKMENT IN FILL
	REINFORCED CONCRETE WALL
	GABION WALL
	SHEET PILE WALL
	EXISTING STRUCTURE TO BE DEMOLISHED
	STRUCTURES
	RUNNING LINES
	EXISTING TRACK SLUED OR MODIFIED
	SIDINGS
	PROPOSED TRACKWORK
	TRACKWORK TO BE REMOVED

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larnród Éireann Infrastructure

larnród Éireann-Irish Rail Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Project Title
**CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK**

Drawing Title
**General Arrangement Permanent Way
Preferred Option**

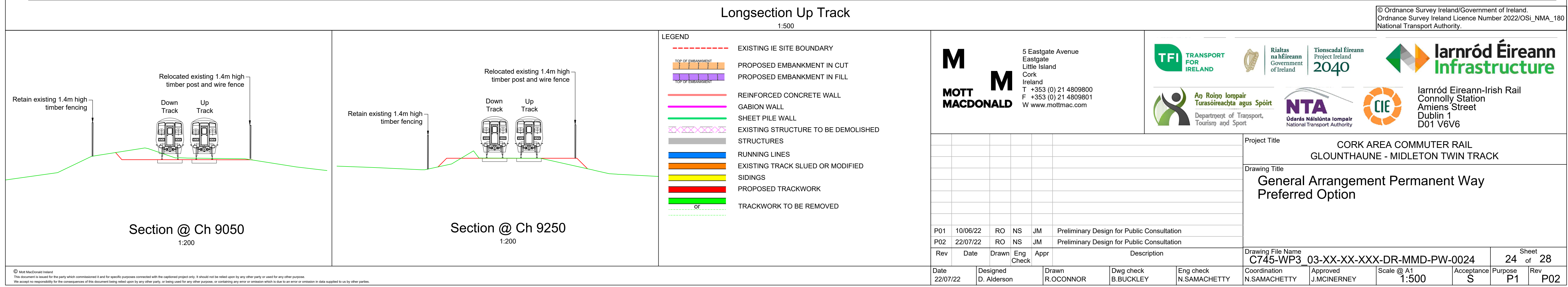
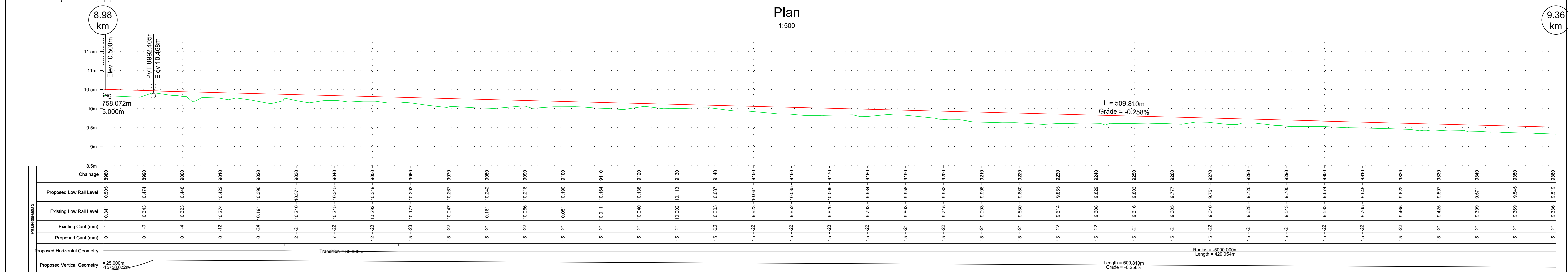
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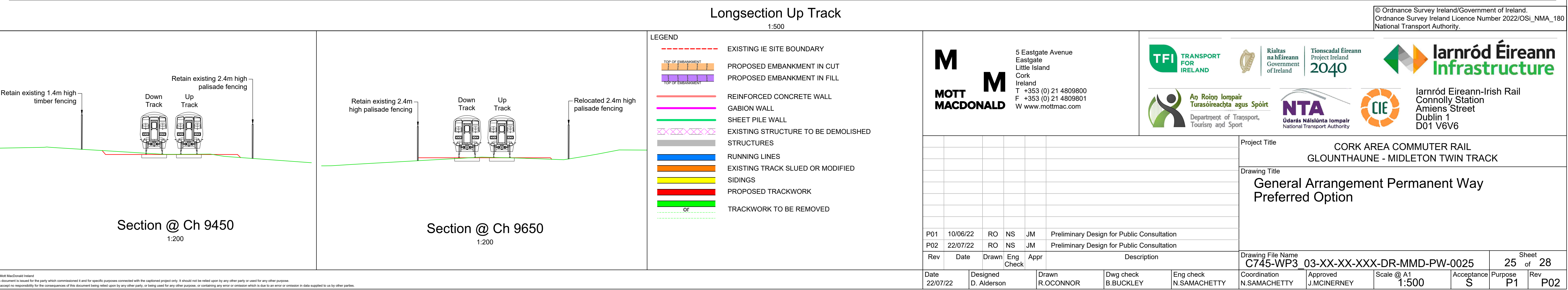
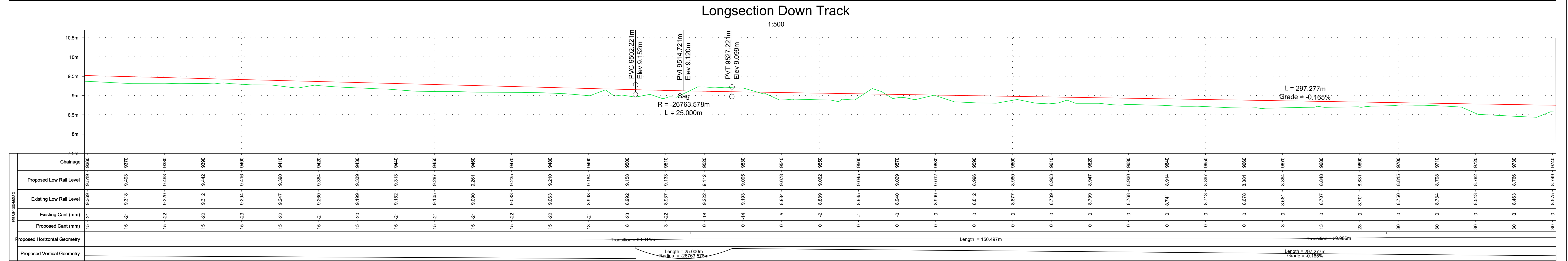
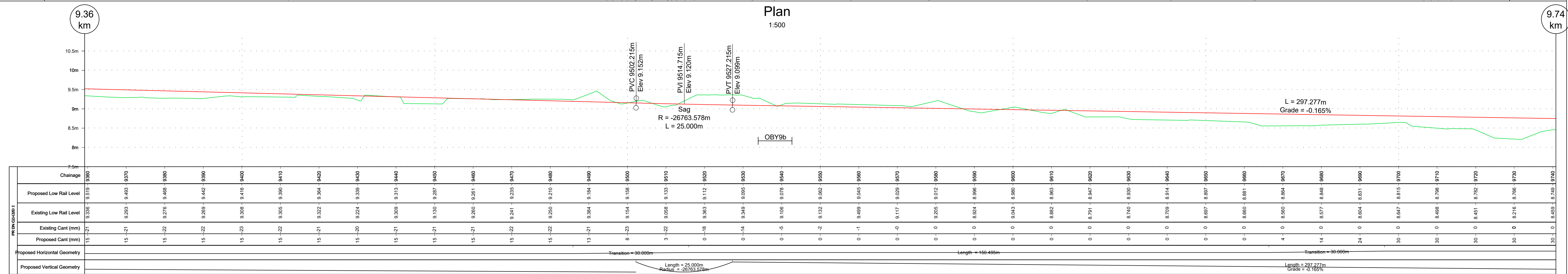
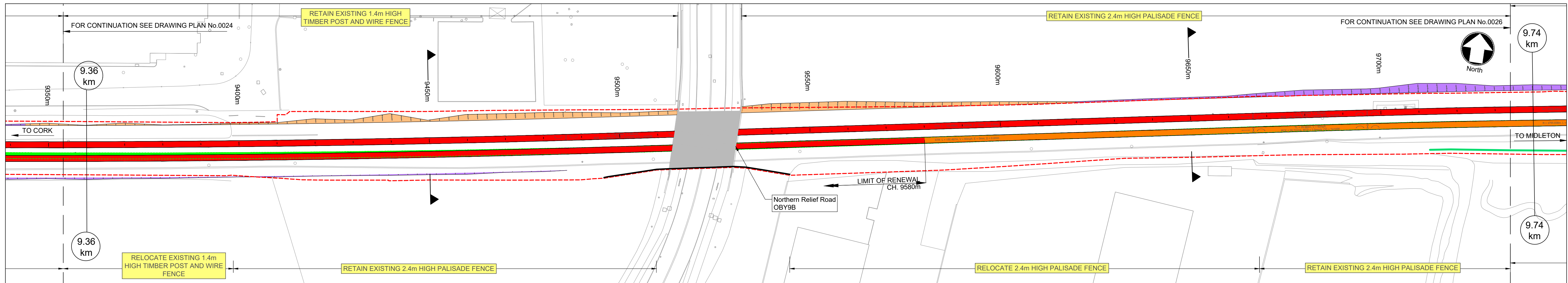
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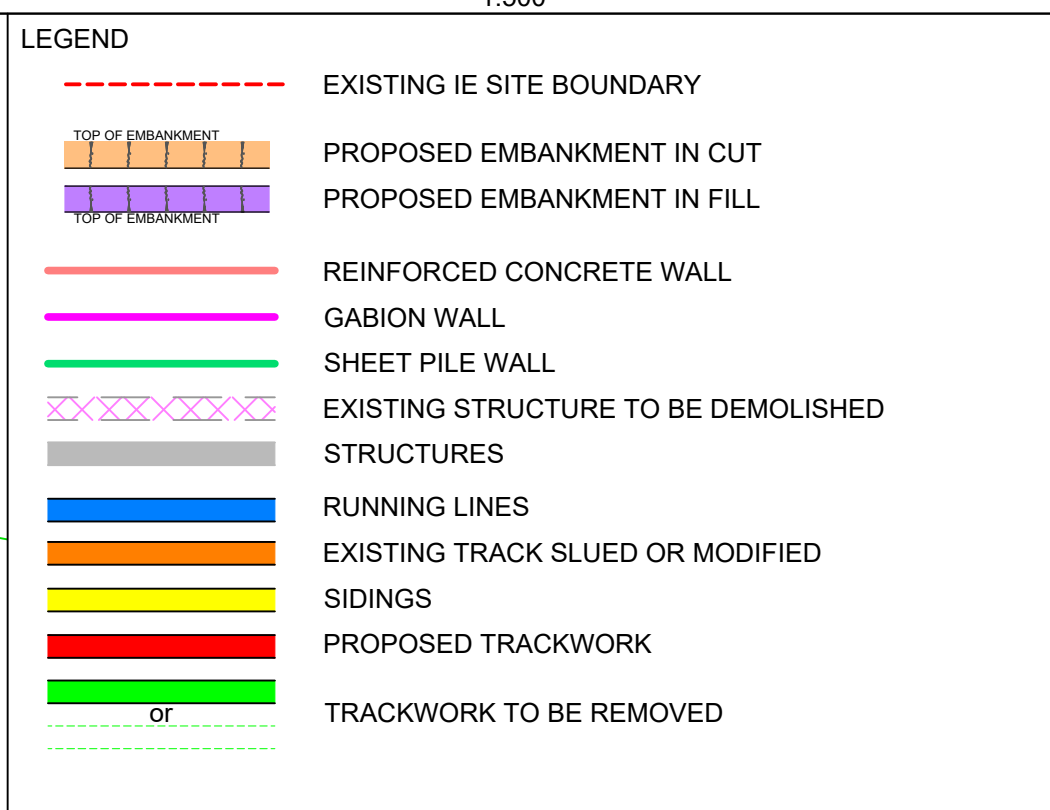
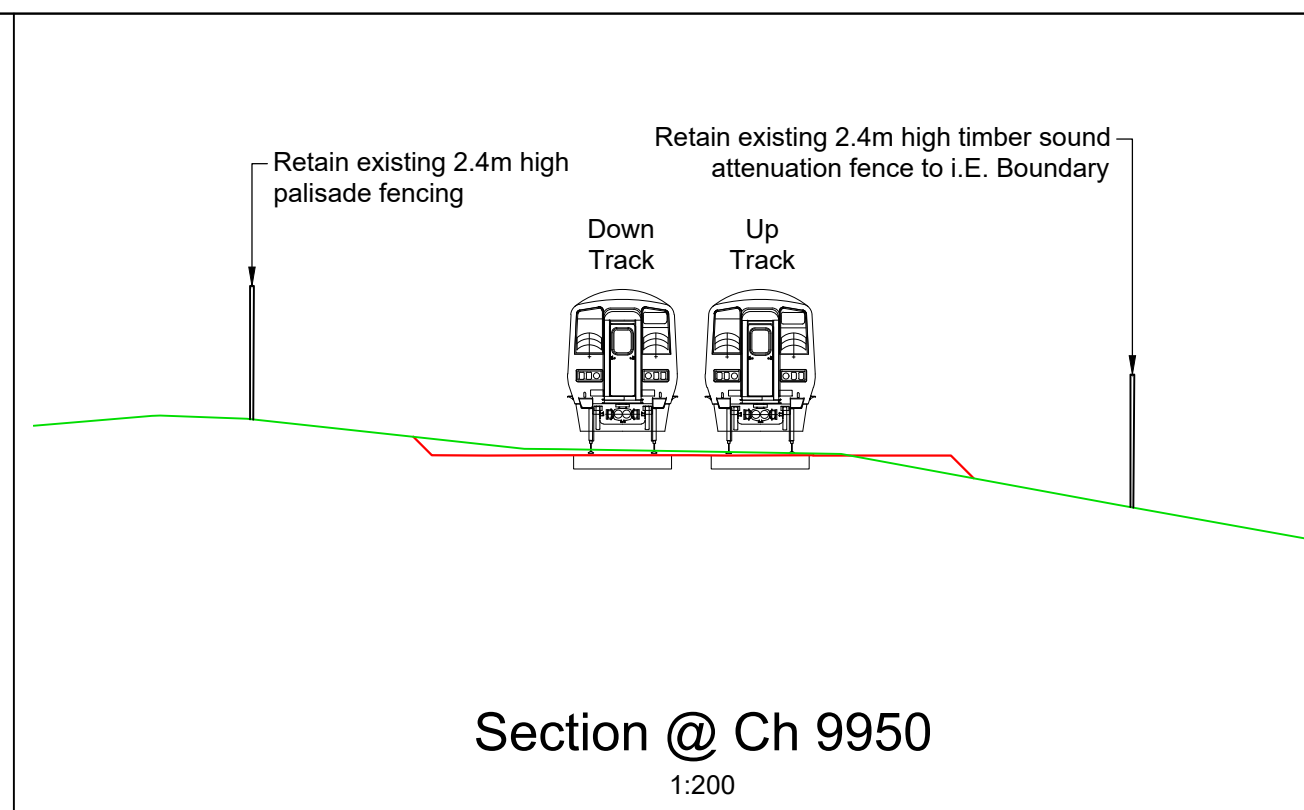
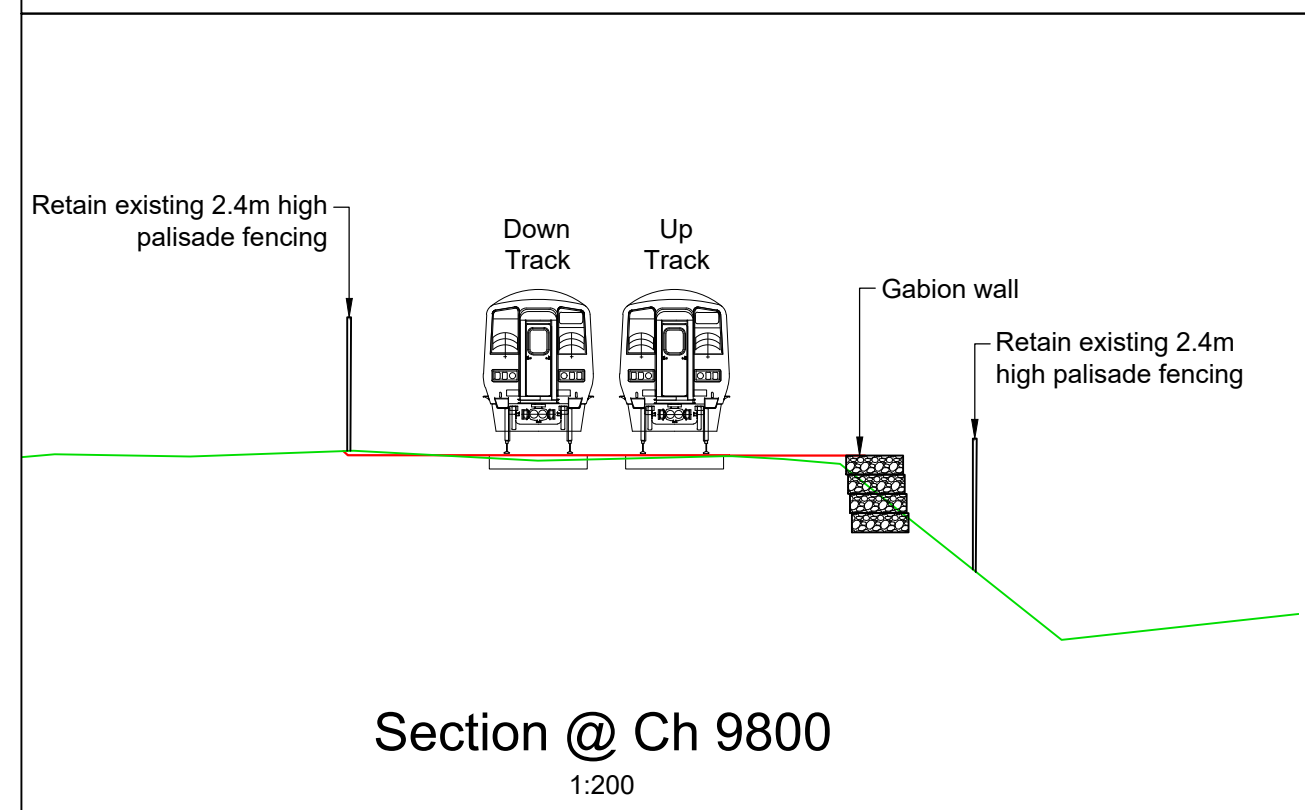
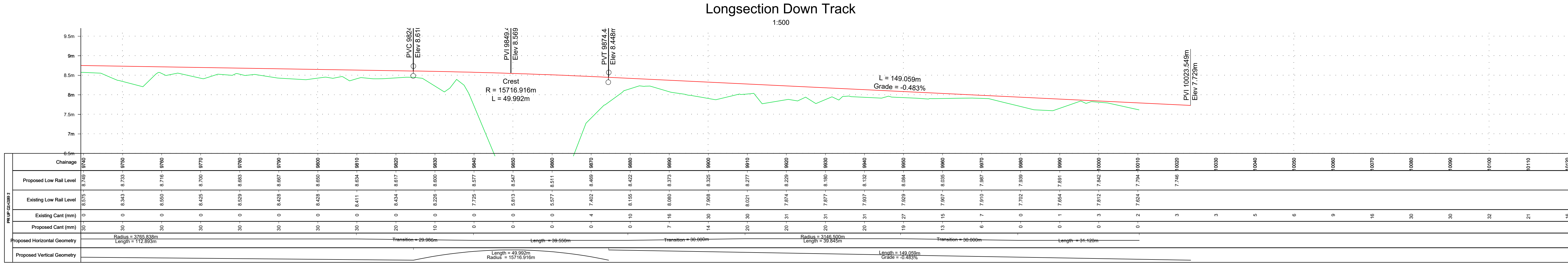
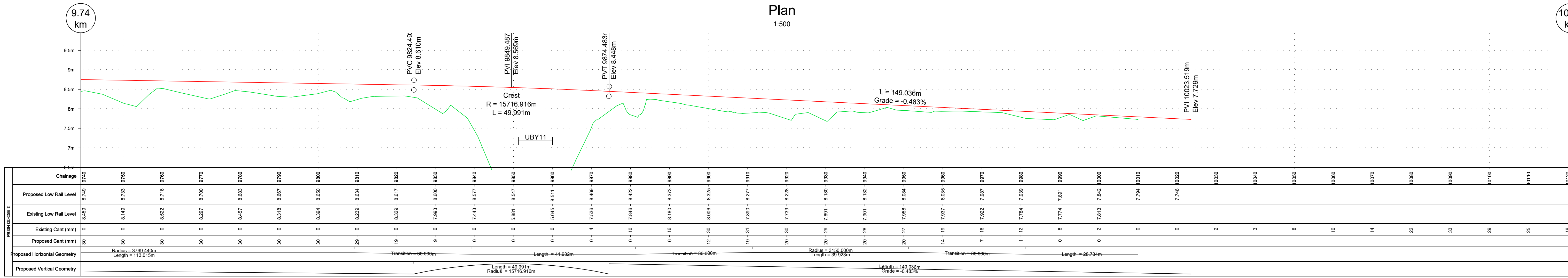
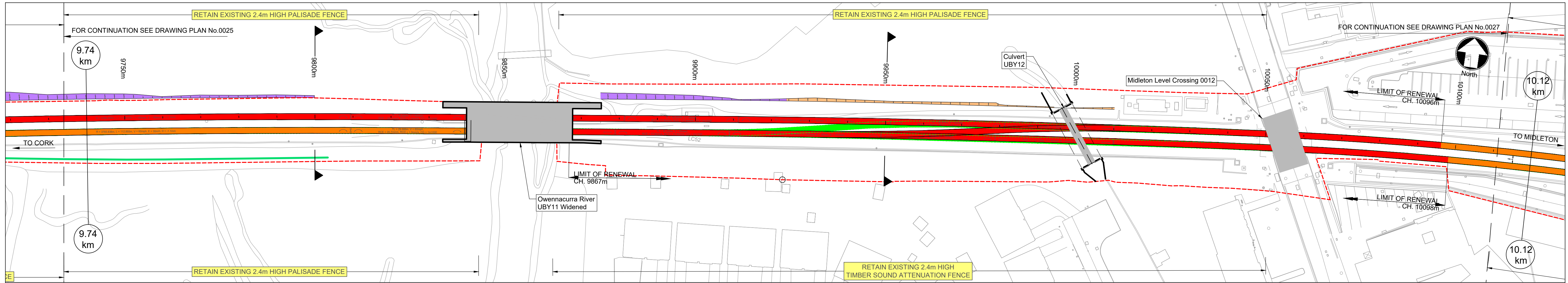
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P01	10/06/22	RO	NS	JM	Preliminary Design for Public Consultation
P02	22/07/22	RO	NS	JM	Preliminary Design for Public Consultation

Date	Designed	Drawn	Dwg check	Eng check
22/07/22	D. Alderson	R. O'CONNOR	B. BUCKLEY	N. SAMACHETTY

Coordination	Approved	Scale	Acceptance	Purpose	Rev
N. SAMACHETTY	J. MCINERNEY	@ A1 1:500	S	P1	P02







MOTT MACDONALD

5 Eastgate Avenue
Eastgate
Little Island
Cork
Ireland
T +353 (0) 21 4809800
F +353 (0) 21 4809801
W www.mottmac.com

TFI TRANSPORT FOR IRELAND

Rialtas na hÉireann Government of Ireland

Tionscadal Éireann Project Ireland 2040

Iarnród Éireann Infrastructure

Iarnród Éireann-Irish Rail
Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Department of Transport, Tourism and Sport

NTA
Údarás Náisiúnta Iompair
National Transport Authority

CIE

Project Title: CORK AREA COMMUTER RAIL
GLOUNTHAUNE - MIDLETON TWIN TRACK

Drawing Title: General Arrangement Permanent Way Preferred Option

Drawing File Name: C745-WP3 03-XX-XX-XXX-DR-MMD-PW-0026

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Rev: P01, P02, P03

Date: 22/07/22

Designed: D. Alderson

Drawn: R. O'CONNOR

Dwg check: B. BUCKLEY

Eng check: N. SAMACHETTY

Coordination: N. SAMACHETTY

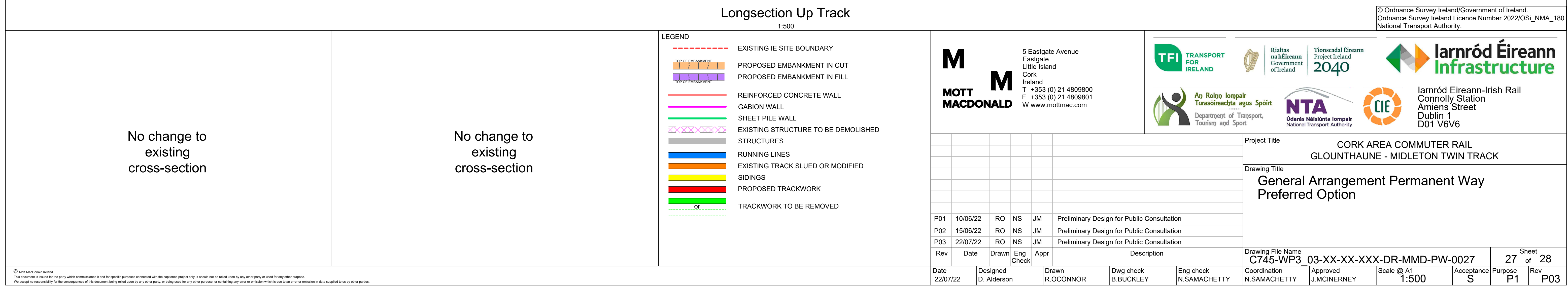
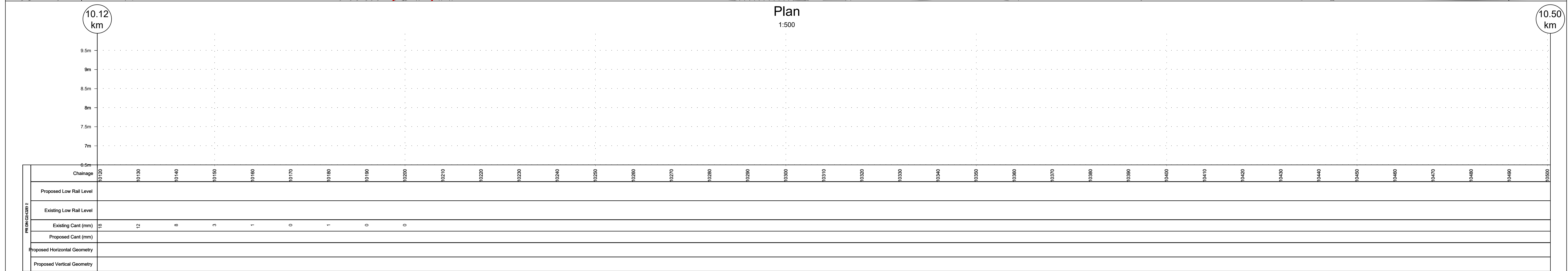
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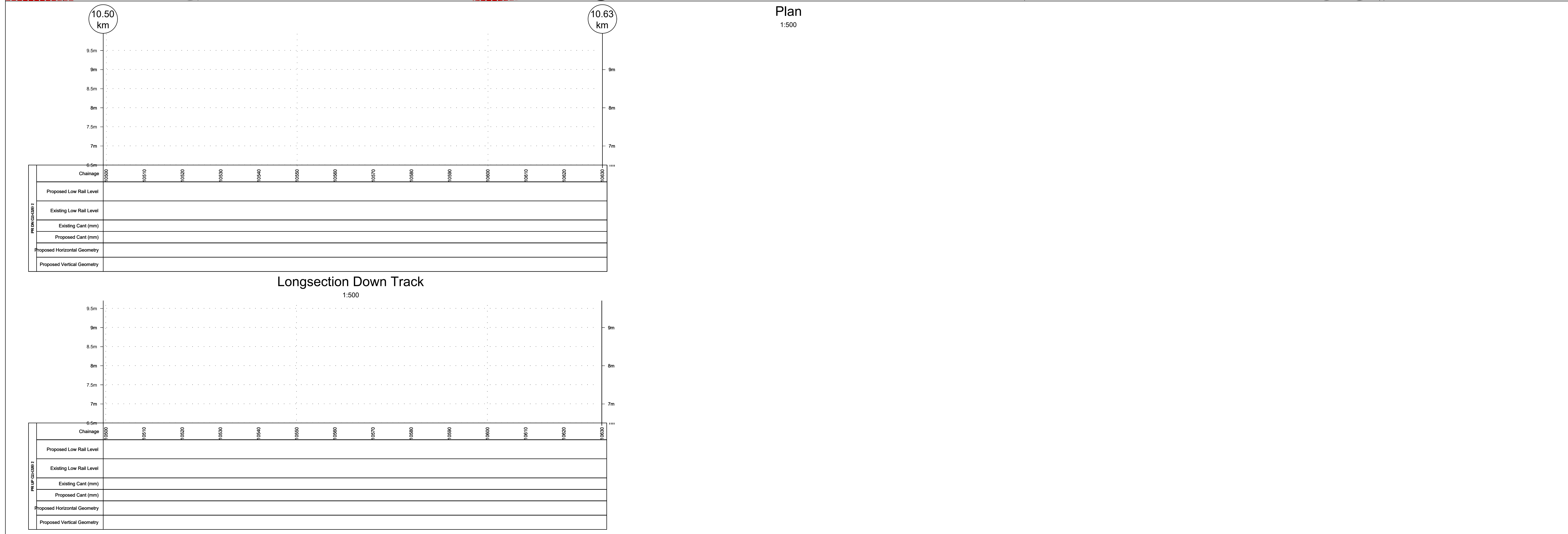
Scale @ A1: 1:500

Acceptance: S

Purpose: P1

Rev: P03





No change to existing cross-section		No change to existing cross-section	LEGEND ----- EXISTING IE SITE BOUNDARY - TOP OF EMBANKMENT PROPOSED EMBANKMENT IN CUT - TOP OF EMBANKMENT PROPOSED EMBANKMENT IN FILL - REINFORCED CONCRETE WALL - GABION WALL - SHEET PILE WALL - EXISTING STRUCTURE TO BE DEMOLISHED - STRUCTURES - RUNNING LINES - EXISTING TRACK SLUED OR MODIFIED - SIDINGS - PROPOSED TRACKWORK - or TRACKWORK TO BE REMOVED	MOTT MACDONALD 5 Eastgate Avenue Eastgate Little Island Cork Ireland T +353 (0) 21 4809800 F +353 (0) 21 4809801 W www.mottmac.com							 TRANSPORT FOR IRELAND Rialtas na hÉireann Government of Ireland Tionscatal Éireann Project Ireland 2040 Iarnród Éireann Infrastructure																																																																																																																												
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