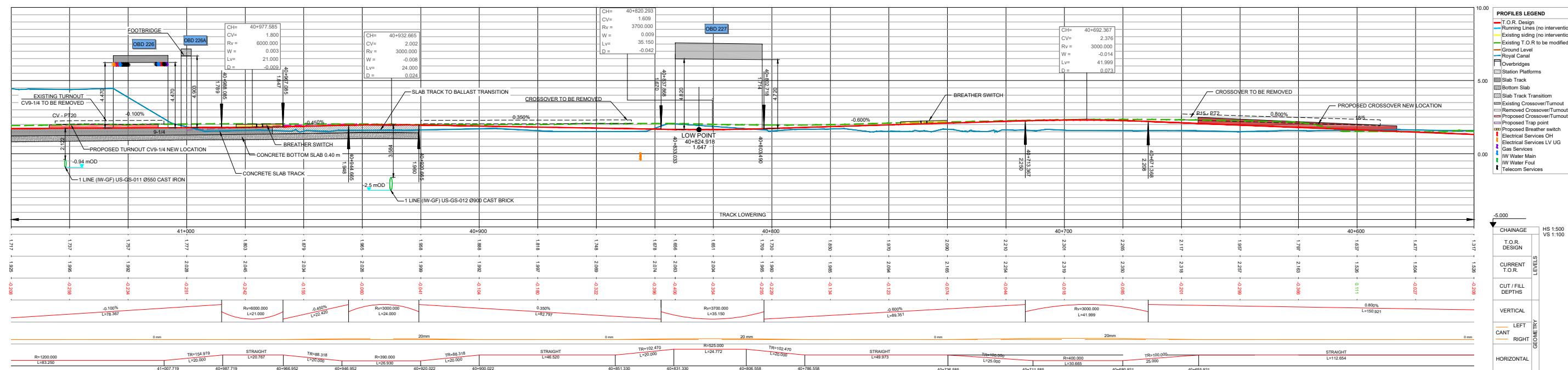


LAYOUT PLAN - S4 (MGWR) TRACK LOWERING AT OBD227

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	---	TRAP POINT TO BE REMOVED	OBX XX	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	WATER MAIN/GRAVITY FOUL	---	TRACK LOWERING STRETCH
10+000 XXX	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHING SWITCH	---	BREATHING SWITCH TO BE REMOVED	UBX XX	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	ELECTRICAL SERVICES OHUG	---	TRACK REALIGNMENT STRETCH
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	---	FOULING POINT	OBX XX	OVERBRIDGE/TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	GAS SERVICES	---	ESTIMATED OPW FLOODING AREAS
XX JCT	JUNCTIONS	---	BUFFER STOP	---	EXISTING BREATHING SWITCH	---	EXISTING TGA	OBX XX	PROPOSED OVERBRIDGE/CTO	---	SLAB TRACK/SLAB TRACK TRANSITION	---	TELECOMMUNICATION SERVICES	---	



LONGITUDINAL PROFILES - S4 MGWR TRACK LOWERING AT OBD227

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
- A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY/REVIEWED BY/APPROVED BY					

Client: **2040** (The National Transport Authority), **Irish Rail**

Consultant: **IDOM**, **JROD**

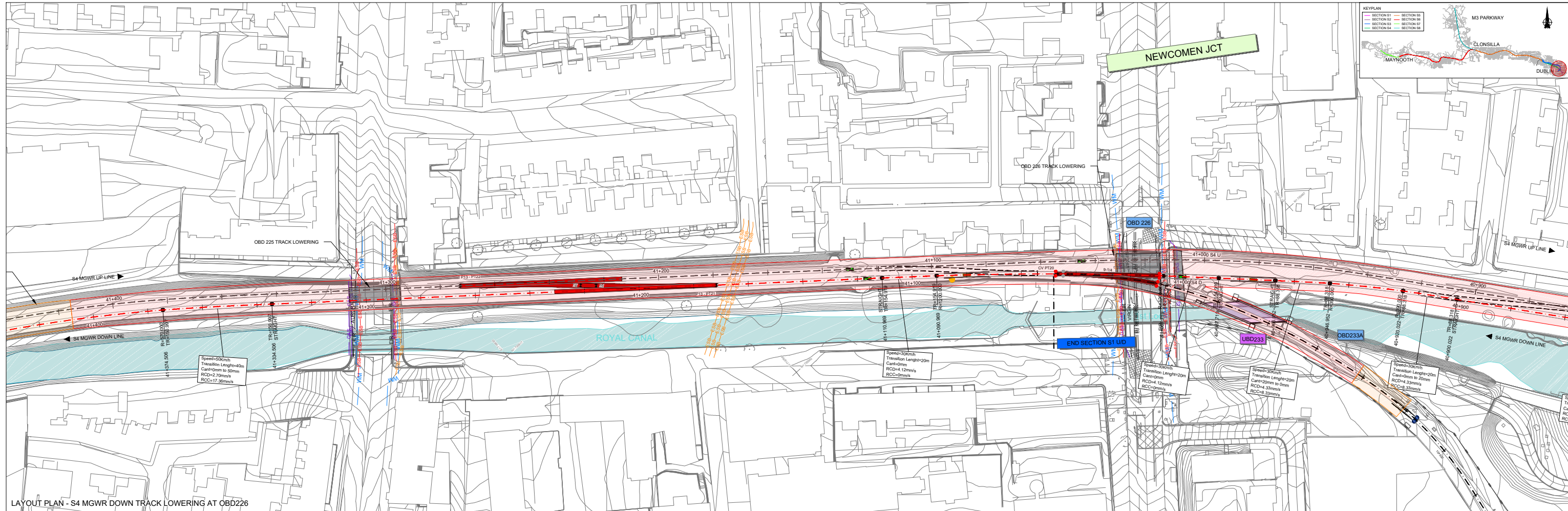
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR) ALIGNMENT AND PROFILES OBD227 TRACK LOWERING**

Scale: 1:500 @ A1-XL, 1:1000 @ A3

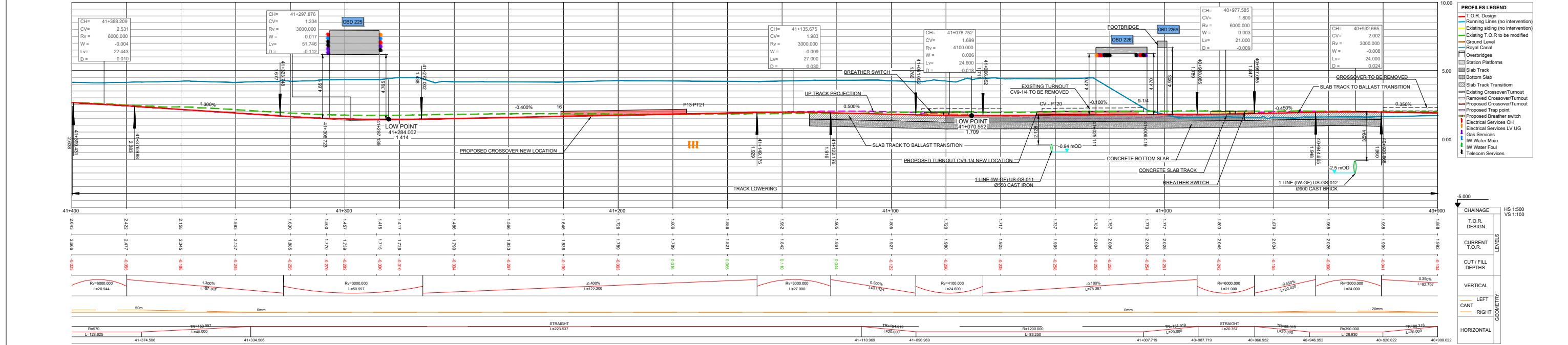
Drawing Number: **MAY MDC TRK SC04 DR C 0002 D**

Date: April 2022, Job No: P/10/1086, Status: F1-Approved & accepted, Rev: V01, Sheet: 01 of 10



LAYOUT PLAN - S4 MGWR DOWN TRACK LOWERING AT OBD226

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	---	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	WATER MAIN/GRAVITY FOUL	---	TRACK LOWERING STRETCH
10+000	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHER SWITCH	---	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	ELECTRICAL SERVICES OHUG	---	TRACK REALIGNMENT STRETCH
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	---	OVERBRIDGE/CLTO TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	GAS SERVICES	---	ESTIMATED OPW FLOODING AREAS
XX JCT	JUNCTIONS	---	BUFFER STOP	---	EXISTING BREATHER SWITCH	---	PROPOSED OVERBRIDGE/CL	---	SLAB TRACK/SLAB TRACK TRANSITION	---	TELECOMMUNICATION SERVICES	---	



LONGITUDINAL PROFILES - S4 MGWR DOWN TRACK LOWERING AT OBD226

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PROVIDED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
- A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/INVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			

Client: **Transport for Ireland 2040**, **NTA**, **Iarnród Éireann Irish Rail**

Consultant: **IDOM**, **JROD**

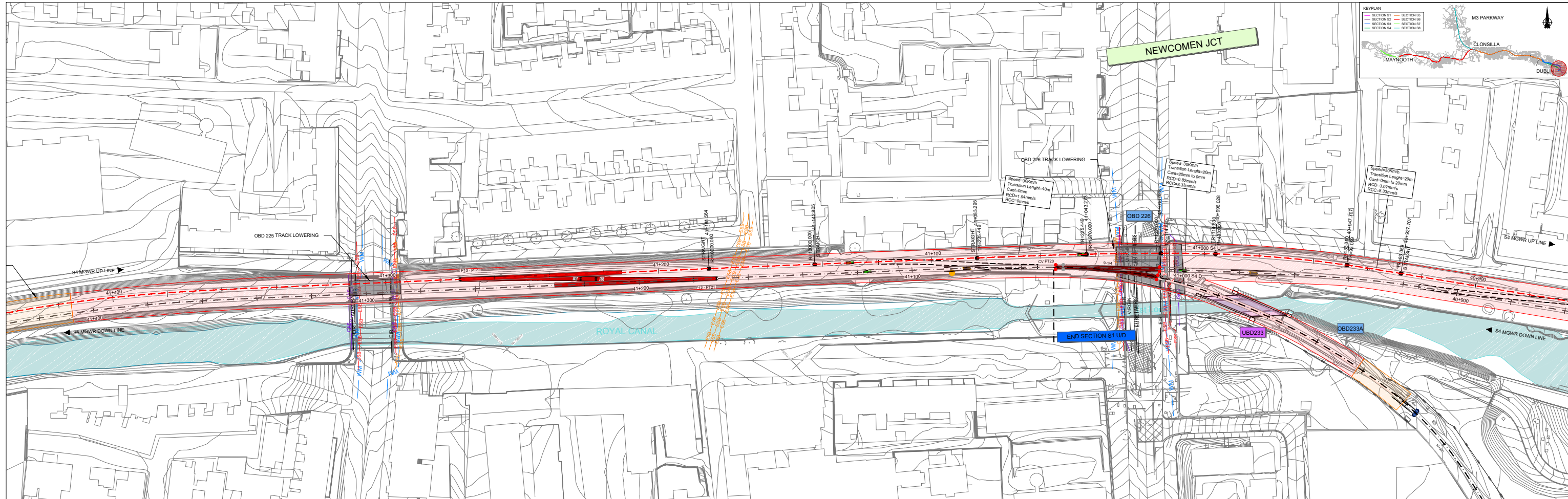
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR) ALIGNMENT AND PROFILES OBD226 TRACK LOWERING - DOWN TRACK**

Scale: 1:500 @ A1-XL, 1:1000 @ A3

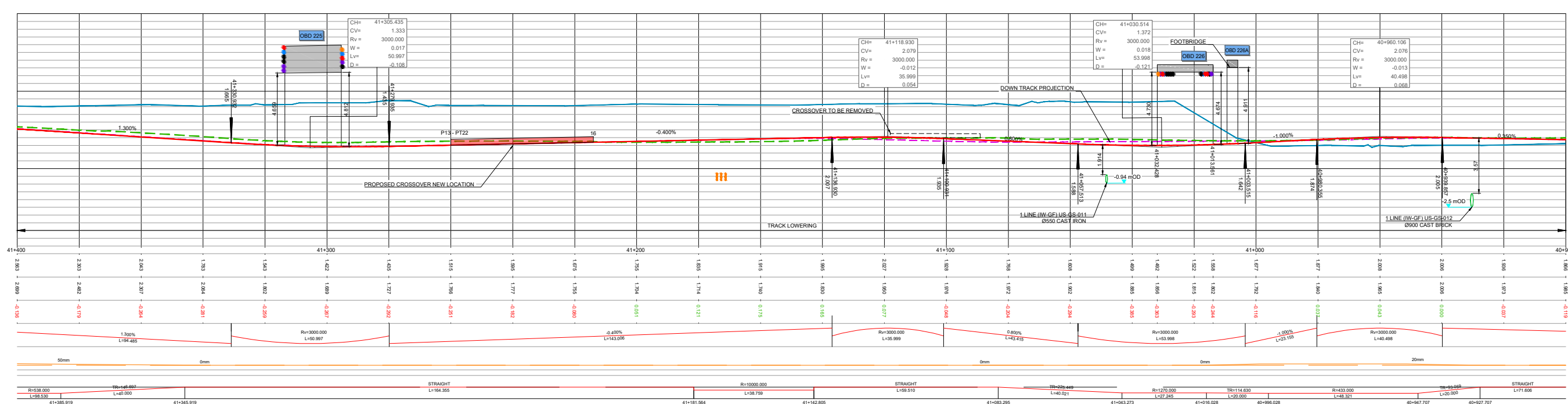
Drawing Number: **1** | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 | Job No: P1/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 02 of 10



LAYOUT PLAN - S4 MGWR UP TRACK LOWERING AT OBD226

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 500X	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	---	TRAP POINT TO BE REMOVED	OBXX	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	---	---	---
---	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHER SWITCH	---	BREATHER SWITCH TO BE REMOVED	OBXX XX	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	---	---	---
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	---	FOULING POINT	OBXX XX	OVERBRIDGE/CTO TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	---	---	---
---	JUNCTIONS	---	BUFFER STOP	---	EXISTING BREATHER SWITCH	---	EXISTING TGA	OBXX XX	PROPOSED OVERBRIDGE/CTO	---	SLAB TRACK/SLAB TRACK TRANSITION	---	---	---	---



LONGITUDINAL PROFILES - S4 MGWR UP TRACK LOWERING AT OBD226

PROFILES LEGEND	
---	T.O.R. Design
---	Running Lines (no intervention)
---	Existing siding (no intervention)
---	Existing T.O.R. to be modified
---	Ground Level
---	Royal Canal
---	Overbridges
---	Station Tracks
---	Slab Track
---	Bottom Slab
---	Slab Track Transition
---	Existing Crossover/Turnout
---	Removed Crossover/Turnout
---	Proposed Crossover/Turnout
---	Proposed Trap point
---	Proposed Breather switch
---	Electrical Services OH
---	Electrical Services LV UG
---	Gas Services
---	Water Main
---	Water Foul
---	Telecom Services

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			

PRODUCED BY: [Signature] REVIEWED BY: [Signature] APPROVED BY: [Signature]

Client: **2040** (The National Transport Authority)

Consultant: **IDOM**, **JROD**

Project: **lamróid Éireann Irish Rail**

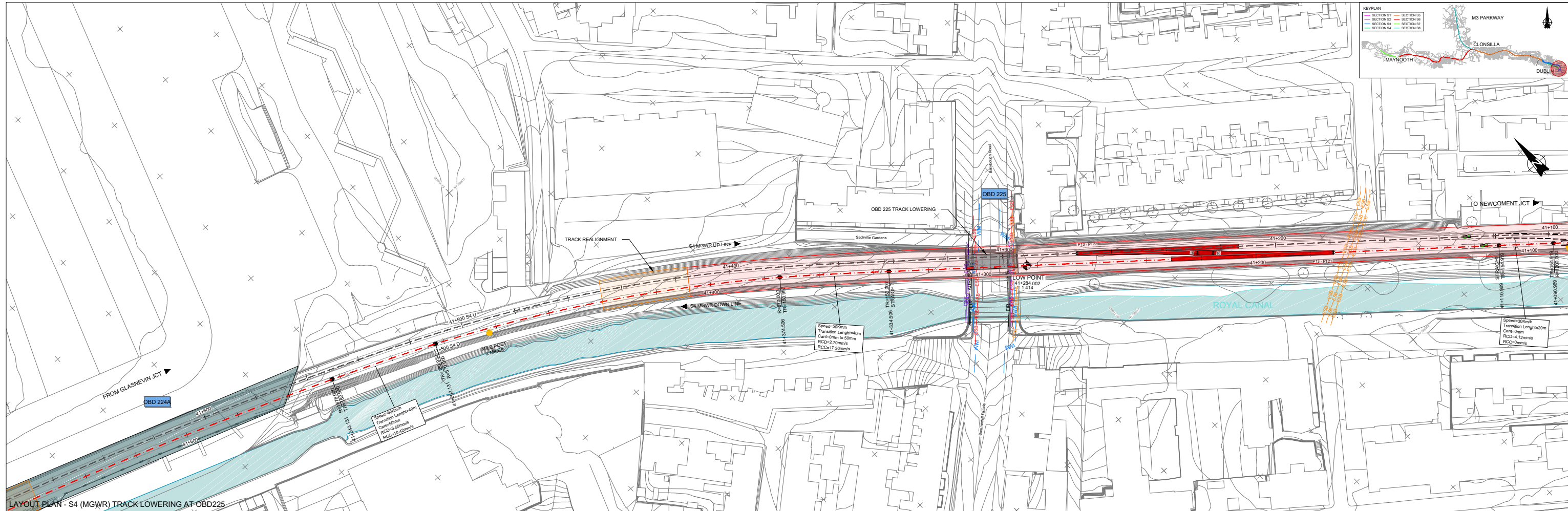
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR), ALIGNMENT AND PROFILES OBD226 TRACK LOWERING - UP TRACK**

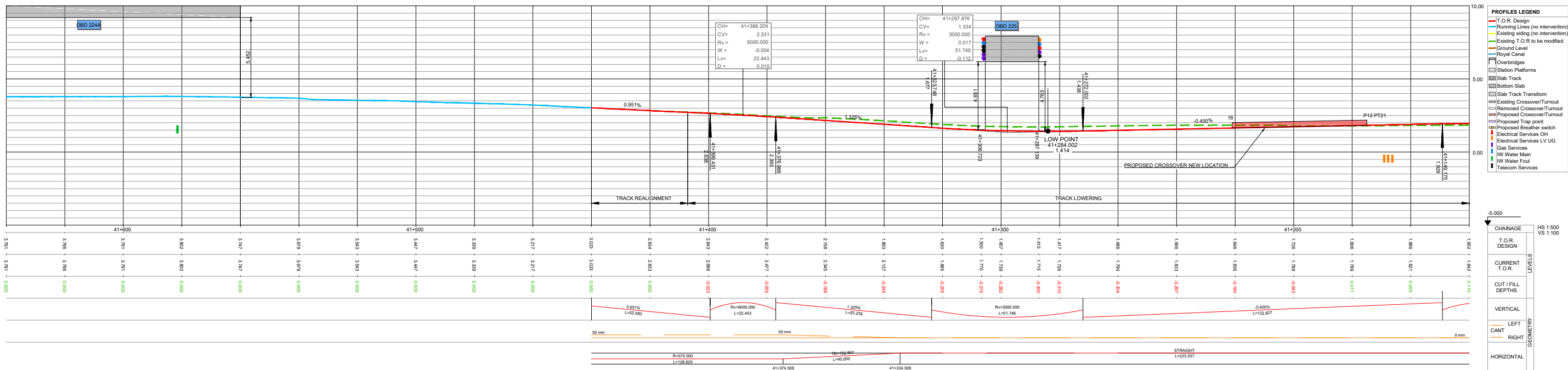
Scale: 1:500 @ A1-XL, 1:1000 @ A3

Drawing Number: **1** | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 | Job No: P1101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 03 of 10



ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 10+000 500x	MILES POST	Existing P&C	PROPOSED P&C	Proposed Trap Point	Trap Point to be Removed	OBX XX	EXISTING OVERBRIDGE	UBX XX	EXISTING UNDERBRIDGE	WM	WATER MAIN/GRAVITY FOUL	TRK LWR	TRACK LOWERING STRETCH
XX JCT	ACCUMULATIVE STATION POINTS	P&C TO BE REMOVED	PROPOSED BREATHING SWITCH	Proposed Breathing Switch	Breathing Switch to be Removed	OBX XX	OVERBRIDGE REBUILD/LIFTING	UBX XX	PROPOSED UNDERBRIDGE	OH	ELECTRICAL SERVICES OH/UG	TRK REALIGN	TRACK REALIGNMENT STRETCH
	RAIL CENTERLINES AND TRACKS	EXISTING TRAP POINT	EXISTING BREATHING SWITCH	Existing Trap Point	Fouling Point	OBX XX	OVERBRIDGE/UCTO TO BE REMOVED	UBX XX	EXISTING STATIONS	GS	GAS SERVICES	ESTM OPW	ESTIMATED OPW FLOODING AREAS
	JUNCTIONS	BUFFER STOP	EXISTING TGA	Existing TGA		OBX XX	PROPOSED OVERBRIDGE/CTC	UBX XX	PROPOSED OVERBRIDGE	TELECOM	TELECOMMUNICATION SERVICES		



LONGITUDINAL PROFILES - S4 MGWR TRACK LOWERING AT OBD225

NOTES
 1. DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROPOSED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY/REVIEWED BY/APPROVED BY					

Client: **2040** (Transportation Infrastructure Authority), **Irish Rail**

Consultant: **IDOM**, **JROD**

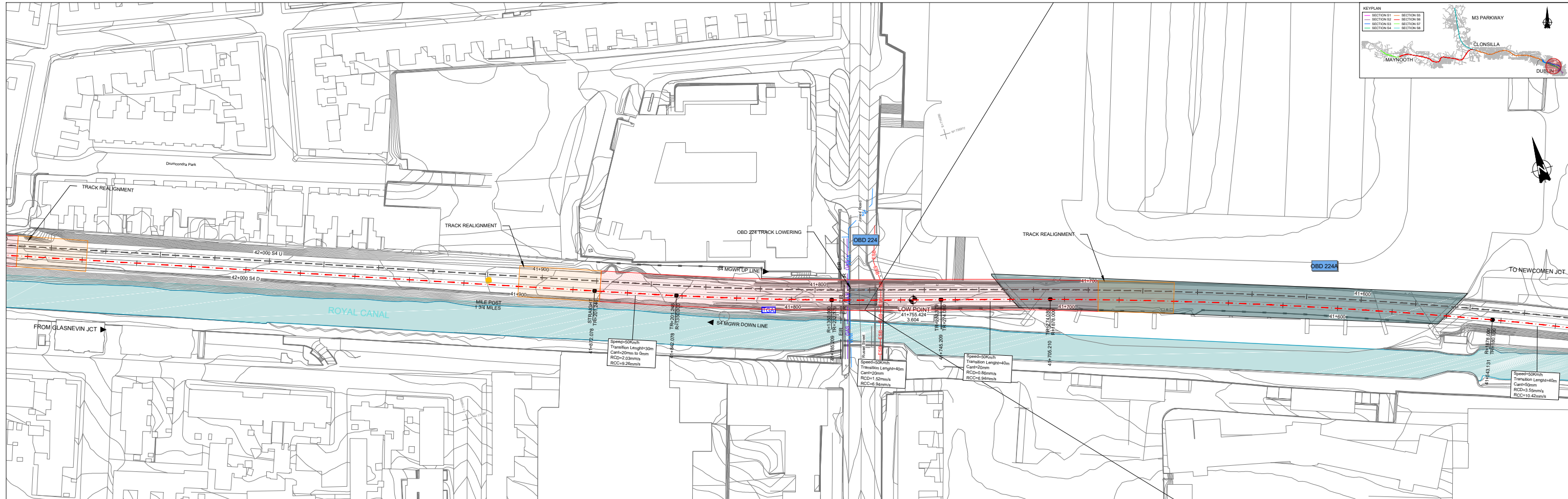
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR) ALIGNMENT AND PROFILES OBD225 TRACK LOWERING**

Scale: 1:500 @ A1-XL, 1:1000 @ A3

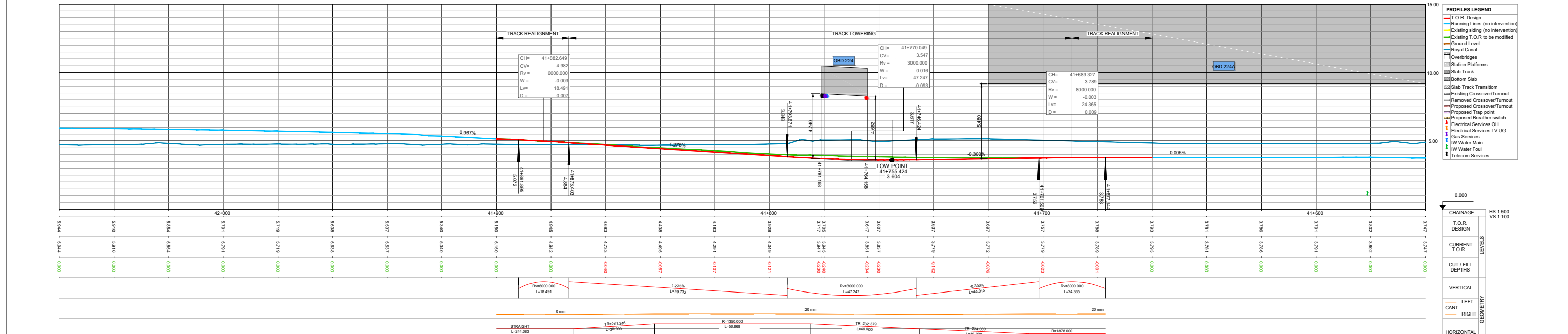
Drawing Number: **MAY MDC TRK SC04 DR C 0002 D**

Date: April 2022 | Job No: P101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 04 of 10



LAYOUT PLAN - S4 (MGWR) TRACK LOWERING AT OBD224

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 10+000 500	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	---	TRAP POINT TO BE REMOVED	OBX XX	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	WM	---	---
---	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHER SWITCH	---	BREATHER SWITCH TO BE REMOVED	OBX XX	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	OH	---	---
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	---	FOULING POINT	OBX XX	OVERBRIDGE/CTO TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	GS	---	---
XX JCT	JUNCTIONS	---	BUFFER STOP	---	EXISTING BREATHER SWITCH	---	EXISTING TGA	OBX XX	PROPOSED OVERBRIDGE/CTO	---	SLAB TRACK/SLAB TRACK TRANSITION	---	TELECOMMUNICATION SERVICES	---	---



LONGITUDINAL PROFILES - S4 (MGWR) TRACK LOWERING AT OBD224

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY/REVIEWED BY APPROVED BY					

Client: **Transport for Ireland 2040**, **NTA**, **Irish Rail**

Consultant: **IDOM**, **JROD**

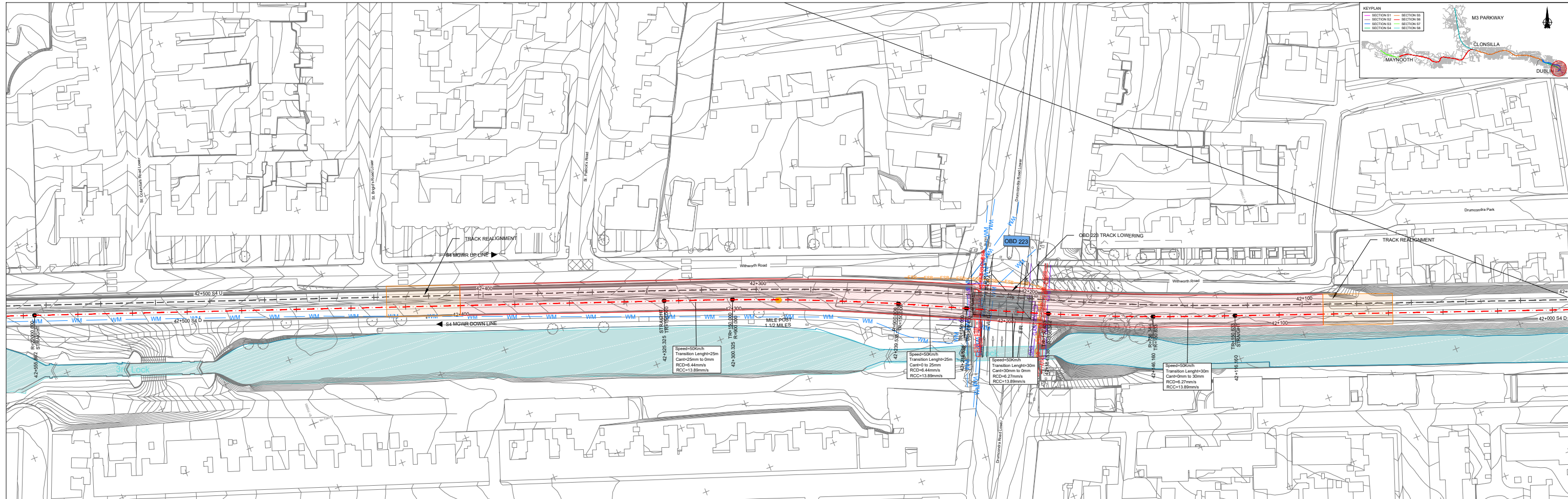
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR) ALIGNMENT AND PROFILES OBD224 TRACK LOWERING**

Scale: 1:500 @ A1-XL 1:1000 @ A3

Drawing Number: **MAY MDC TRK SC04 DR C 0002 D**

Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 05 of 10



LAYOUT PLAN - S4 (MGWR) TRACK LOWERING AT OBD223

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 SXX	MILES POST	EXISTING P&C	PROPOSED TRAP POINT	EXISTING OVERBRIDGE	EXISTING UNDERBRIDGE	EXISTING FENCES	WATER MAIN/GRAVITY FOUL	TRACK LOWERING STRETCH	WM	OH	Gas	TELECOMMUNICATION SERVICES	TRACK ALIGNMENT STRETCH
XX JCT	ACCUMULATIVE STATION POINTS	P&C TO BE REMOVED	PROPOSED BREATHING SWITCH	OVERBRIDGE REBUILD/LIFTING	PROPOSED UNDERBRIDGE	PROPOSED FENCES	ELECTRICAL SERVICES OHUG	TRACK REALIGNMENT STRETCH	WM	OH	Gas	TELECOMMUNICATION SERVICES	ESTIMATED OPW FLOODING AREAS
	RAIL CENTERLINES AND TRACKS		EXISTING TRAP POINT	OVERBRIDGE/TO BE REMOVED	EXISTING STATIONS	EXISTING/PROPOSED WALLS	GAS SERVICES						
	JUNCTIONS	BUFFER STOP	EXISTING BREATHING SWITCH	PROPOSED OVERBRIDGE/CTO		SLAB TRACK/SLAB TRACK TRANSITION							



LONGITUDINAL PROFILES - S4 MGWR TRACK LOWERING AT OBD223

NOTES
 1. DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			

PRODUCED BY: [Signature] REVIEWED BY: [Signature] APPROVED BY: [Signature]

Client: **2040** (Transportation Infrastructure Authority)

Consultant: **IDOM**, **JROD**

Project: **lamróid Éireann Irish Rail**

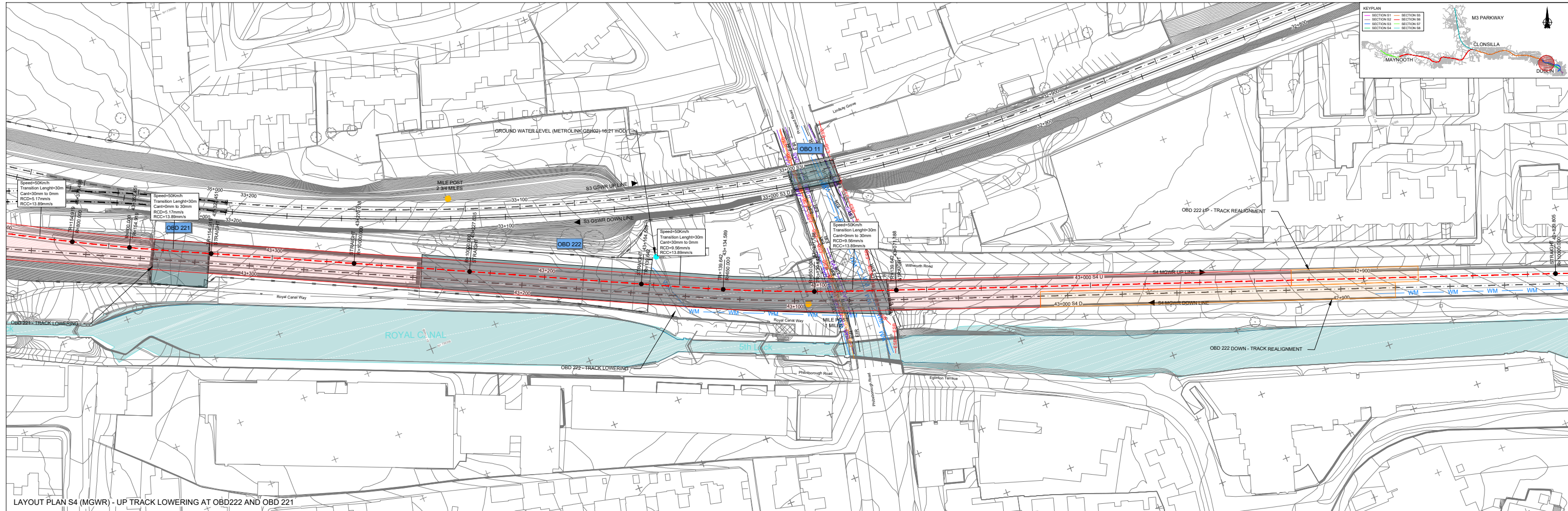
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR), ALIGNMENT AND PROFILES OBD223 TRACK LOWERING**

Scale: 1:500 @ A1-XL, 1:1000 @ A3

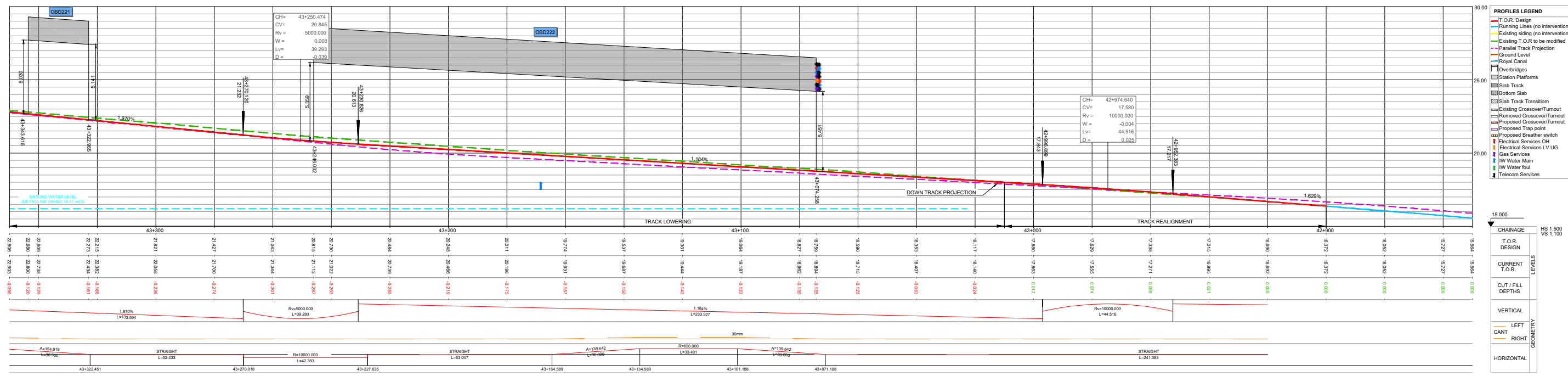
Drawing Number: **MAY MDC TRK SC04 DR C 0002 D**

Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 06 of 10



LAYOUT PLAN S4 (MGWR) - UP TRACK LOWERING AT OBD222 AND OBD 221

ALIGNMENT LEGEND				STRUCTURES				WALLS AND FENCES		EXISTING UTILITIES		OTHER	
	MILES POST		PROPOSED P&C		PROPOSED TRAP POINT		PROPOSED OVERBRIDGE		EXISTING FENCES		WATER MAIN/GRAVITY FOUL		TRACK LOWERING STRETCH
	ACCUMULATIVE STATION POINTS		P&C TO BE REMOVED		TRAP POINT TO BE REMOVED		OVERBRIDGE REBUILD/LIFTING		PROPOSED FENCES		ELECTRICAL SERVICES OHUG		TRACK REALIGNMENT STRETCH
	RAIL CENTERLINES AND TRACKS		EXISTING TRAP POINT		OVERBRIDGE TO BE REMOVED		EXISTING UNDERBRIDGE		EXISTING/PROPOSED WALLS		GAS SERVICES		ESTIMATED OPW FLOODING AREAS
	JUNCTIONS		EXISTING BREATHER SWITCH		PROPOSED OVERBRIDGE/GC		SLAB TRACK/SLAB TRACK TRANSITION		TELECOMMUNICATION SERVICES				



LONGITUDINAL PROFILE S4 (MGWR) - UP TRACK LOWERING AT OBD222 AND OBD 221

NOTES
 2. A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			

PRODUCED BY: [Signature] REVIEWED BY: [Signature]

Client: **Transport for Ireland 2040**

Consultant: **IDOM**, **NTA**, **lamróid Éireann Irish Rail**, **JROD**

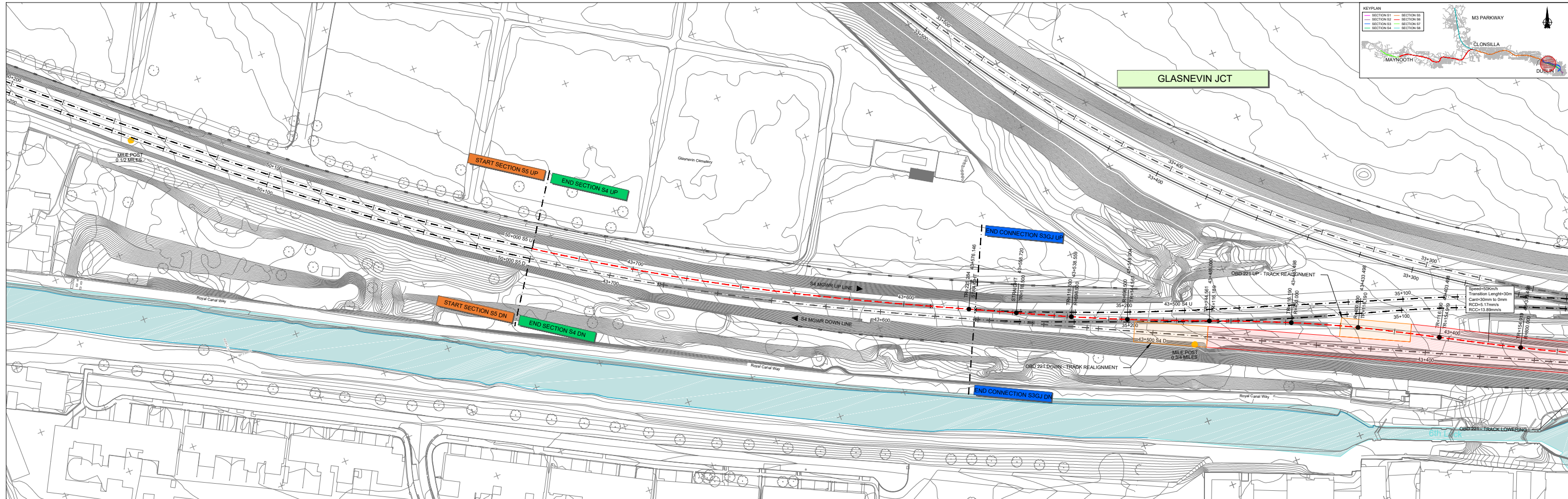
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR), ALIGNMENT AND PROFILES OBD222 - OBD221 TRACK LOWERING - UP TRACK**

Scale: 1:500 @ A1-XL 1:1000 @ A3

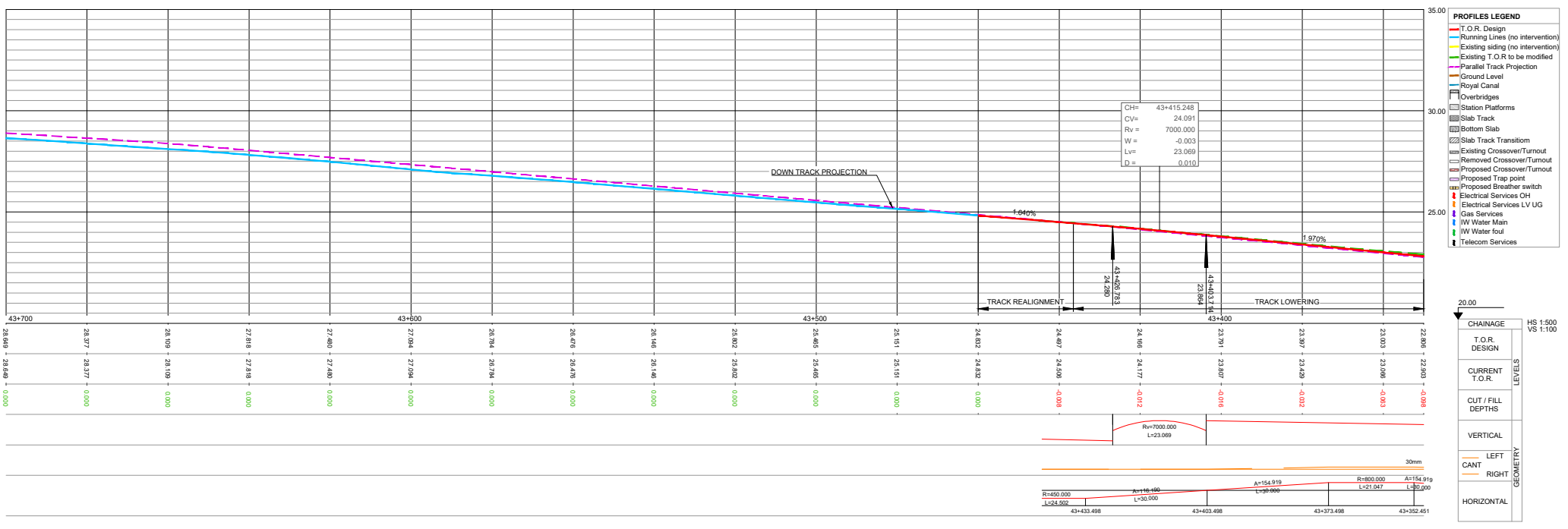
Drawing Number: **1** | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 07 of 10



LAYOUT PLAN S4 (MGWR) - UP TRACK LOWERING AT OBD222 AND OBD221

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000	MILES POST	---	---	---	---	---	---	---	---	OBX XX	EXISTING OVERBRIDGE	---	---	---	---	---	---
10+000 SXX	ACCUMULATIVE STATION POINTS	---	---	---	---	---	---	---	---	OBX XX	OVERBRIDGE REBUILD/LIFTING	---	---	---	---	---	---
---	RAIL CENTERLINES AND TRACKS	---	---	---	---	---	---	---	---	OBX XX	OVERBRIDGE/TO BE REMOVED	---	---	---	---	---	---
XX JCT	JUNCTIONS	---	---	---	---	---	---	---	---	OBX XX	PROPOSED OVERBRIDGE/C	---	---	---	---	---	---
---	EXISTING P&C	---	---	---	---	---	---	---	---	UBX XX	EXISTING UNDERBRIDGE	---	---	---	---	---	---
---	PROPOSED P&C	---	---	---	---	---	---	---	---	---	PROPOSED UNDERBRIDGE	---	---	---	---	---	---
---	P&C TO BE REMOVED	---	---	---	---	---	---	---	---	---	EXISTING STATIONS	---	---	---	---	---	---
---	BUFFER STOP	---	---	---	---	---	---	---	---	---	EXISTING UNDERBRIDGE	---	---	---	---	---	---
---	PROPOSED BREATHING SWITCH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	BREATHING SWITCH TO BE REMOVED	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING TRAP POINT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	FOULING POINT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING TGA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING FENCES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	PROPOSED FENCES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING/PROPOSED WALLS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	SLAB TRACK/SLAB TRACK TRANSITION	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	WATER MAIN/GRAVITY FOUL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	ELECTRICAL SERVICES OHUG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	GAS SERVICES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	TELECOMMUNICATION SERVICES	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	TRACK LOWERING STRETCH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	TRACK REALIGNMENT STRETCH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
---	ESTIMATED OPW FLOODING AREAS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



LONGITUDINAL PROFILE S4 (MGWR) - UP TRACK LOWERING AT OBD222 AND OBD221

NOTES
 2. A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY / REVIEWED BY / APPROVED BY					

Client: **Irish Rail** (2040), **NTA** (National Transport Authority), **Iarnród Éireann** (Irish Rail)

Consultant: **IDOM**, **JROD**

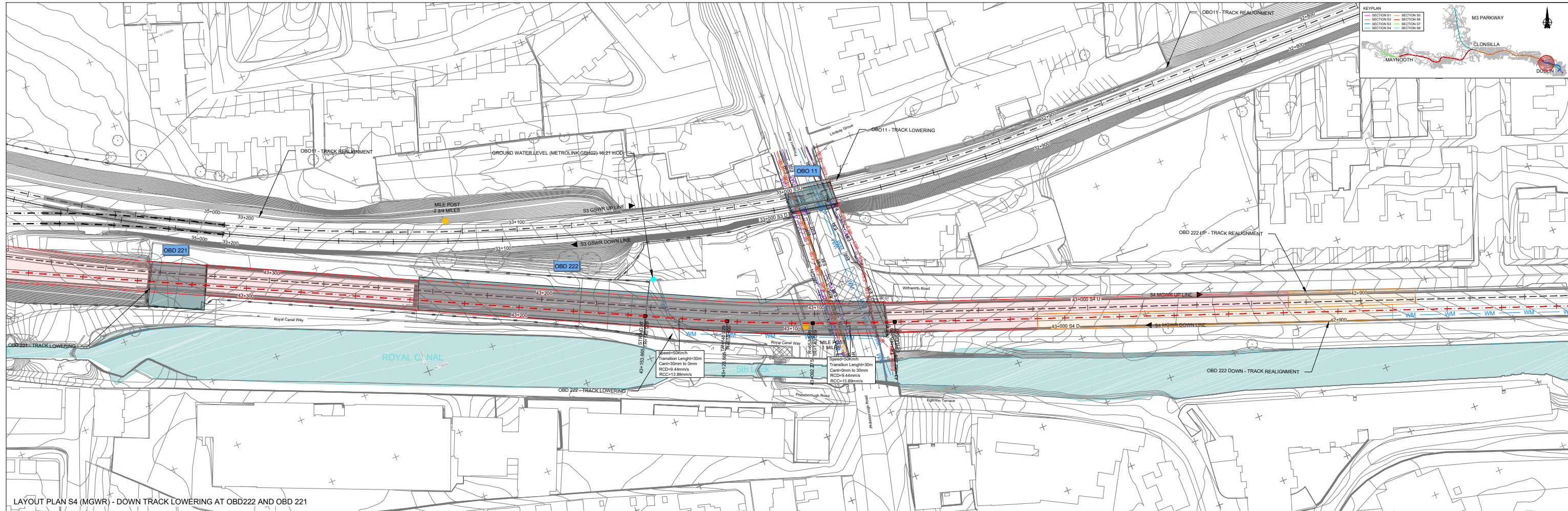
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN - SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR), ALIGNMENT AND PROFILES OBD222 - OBD221 TRACK LOWERING - UP TRACK**

Scale: 1:500 @ A1-XL, 1:1000 @ A3

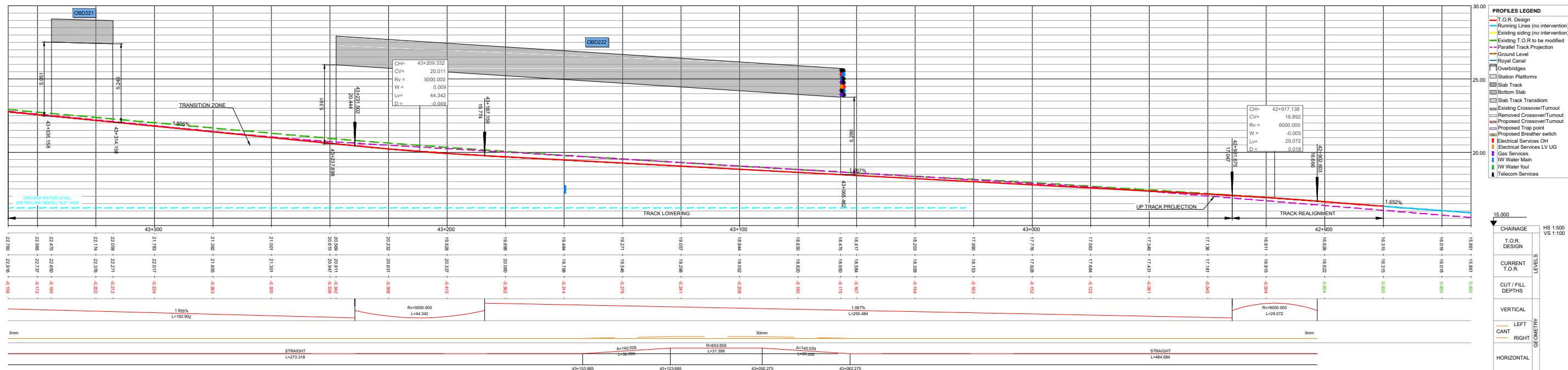
Drawing Number: **DR C 0002 D**

Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 08 of 10



LAYOUT PLAN S4 (MGWR) - DOWN TRACK LOWERING AT OBD222 AND OBD 221

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 500	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	---	TRAP POINT TO BE REMOVED	OBX XX	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	WM	---	---
10+000 500	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHER SWITCH	---	BREATHER SWITCH TO BE REMOVED	OBX XX	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	OH	---	---
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	---	FOULING POINT	OBX XX	OVERBRIDGE/CTO TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	GS	---	---
XX.JCT	JUNCTIONS	---	BUFFER STOP	---	EXISTING BREATHER SWITCH	---	EXISTING TGA	OBX XX	PROPOSED OVERBRIDGE/CTO	---	SLAB TRACK/SLAB TRACK TRANSITION	---	TELECOMMUNICATION SERVICES	---	---



LONGITUDINAL PROFILE S4 (MGWR) - DOWN TRACK LOWERING AT OBD222 AND OBD 221

NOTES
 2. A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			

Client: **Transport for Ireland 2040**, **NTA** (National Transport Authority), **Iarnród Éireann Irish Rail**

Consultant: **IDOM**, **JROD**

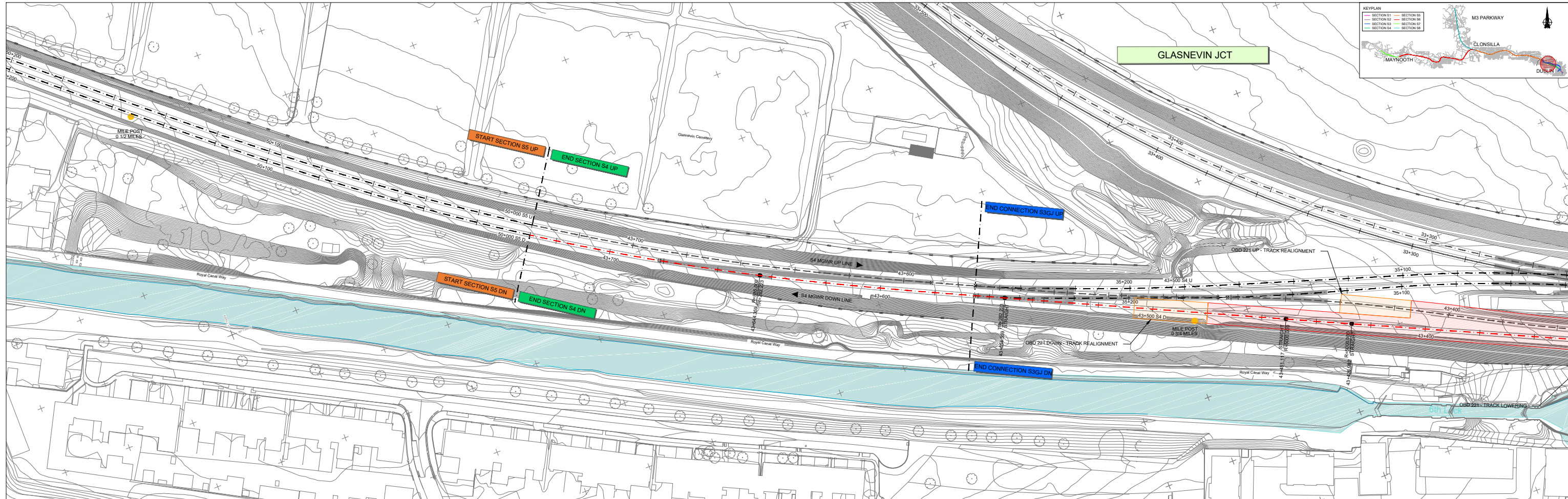
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR), ALIGNMENT AND PROFILES OBD222 - OBD221 TRACK LOWERING - DOWN TRACK**

Scale: 1:500 @ A1-XL, 1:1000 @ A3

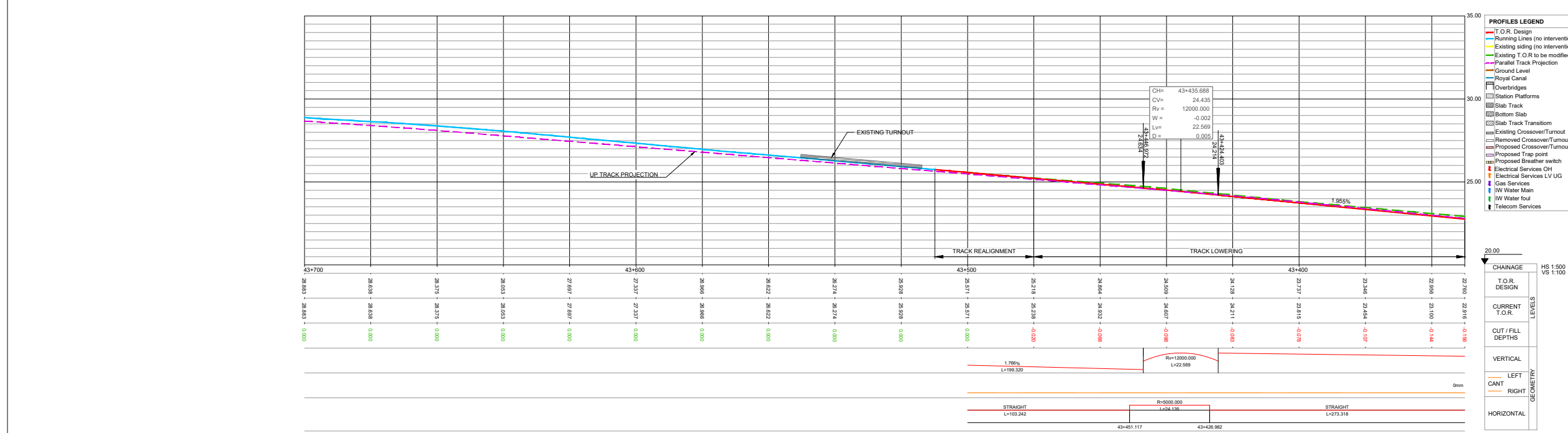
Drawing Number: **MAY MDC TRK SC04 DR C 0002 D**

Date: April 2022 | Job No: P1101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 09 of 10



LAYOUT PLAN S4 (MGWR) - DOWN TRACK LOWERING AT OBD222 AND OBD 221

ALIGNMENT LEGEND				STRUCTURES				WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000	MILES POST	10+000 500	ACCUMULATIVE STATION POINTS	EXISTING P&C	PROPOSED P&C	PROPOSED TRAP POINT	TRAP POINT TO BE REMOVED	EXISTING OVERBRIDGE	EXISTING UNDERBRIDGE	EXISTING FENCES	WATER MAIN/GRAVITY FOUL	TRACK LOWERING STRETCH	
10+000 500	RAIL CENTERLINES AND TRACKS	P&C TO BE REMOVED	BREATHING SWITCH TO BE REMOVED	OVERBRIDGE REBUILD/LIFTING	PROPOSED FENCES	EXISTING BREATHING SWITCH	BREATHING SWITCH TO BE REMOVED	OVERBRIDGE/TO BE REMOVED	PROPOSED UNDERBRIDGE	PROPOSED FENCES	ELECTRICAL SERVICES OH/UG	TRACK REALIGNMENT STRETCH	
XX JCT	JUNCTIONS	BUFFER STOP	FOULING POINT	OVERBRIDGE/TO BE REMOVED	EXISTING/PROPOSED WALLS	EXISTING TRAP POINT	FOULING POINT	PROPOSED OVERBRIDGE/CTO	EXISTING STATIONS	EXISTING/PROPOSED WALLS	GAS SERVICES	ESTIMATED OPW FLOODING AREAS	
			EXISTING TGA	PROPOSED OVERBRIDGE/CTO	SLAB TRACK/SLAB TRACK TRANSITION	EXISTING BREATHING SWITCH	EXISTING TGA			SLAB TRACK/SLAB TRACK TRANSITION	TELECOMMUNICATION SERVICES		



LONGITUDINAL PROFILE S4 (MGWR) - DOWN TRACK LOWERING AT OBD222 AND OBD221

NOTES
 2. A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY / REVIEWED BY / APPROVED BY					

Client: **Transport Infrastructure Authority (TIA)**

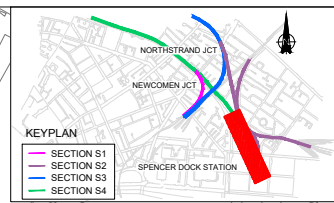
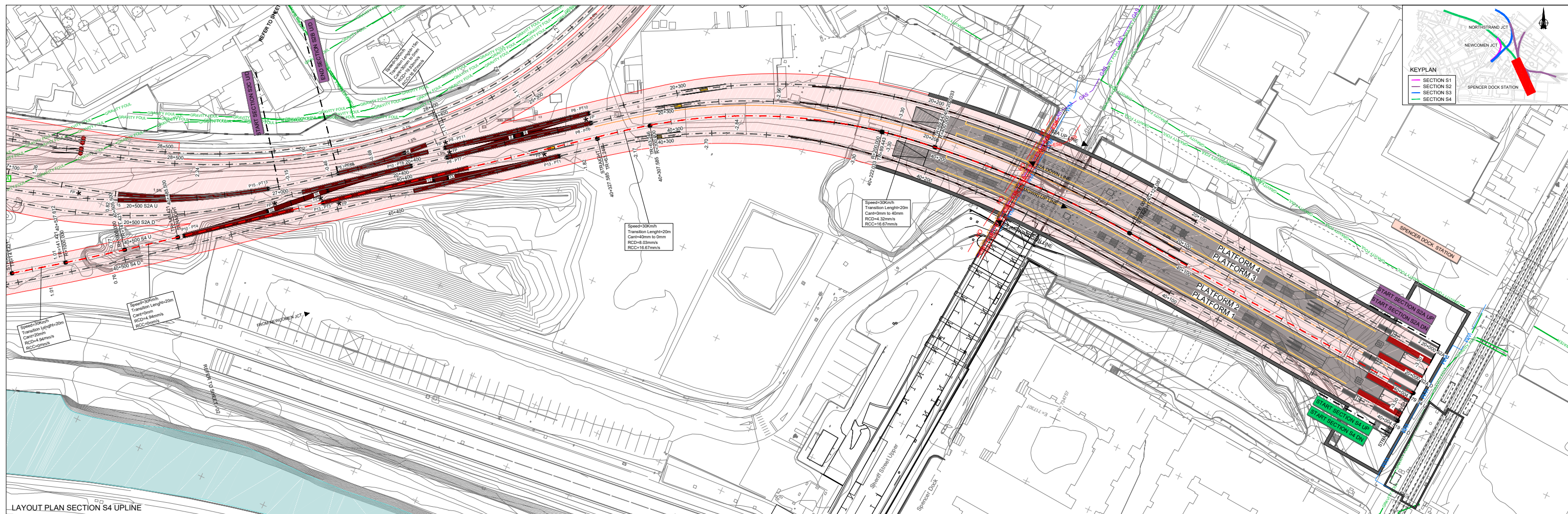
Consultant: **IDOM**, **NTA**, **Irish Rail**, **JROD**

Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN - SPENCER DOCK TO GLASNEVIN JUNCTION (MGWR), ALIGNMENT AND PROFILES - OBD222 - OBD221 TRACK LOWERING - DOWN TRACK**

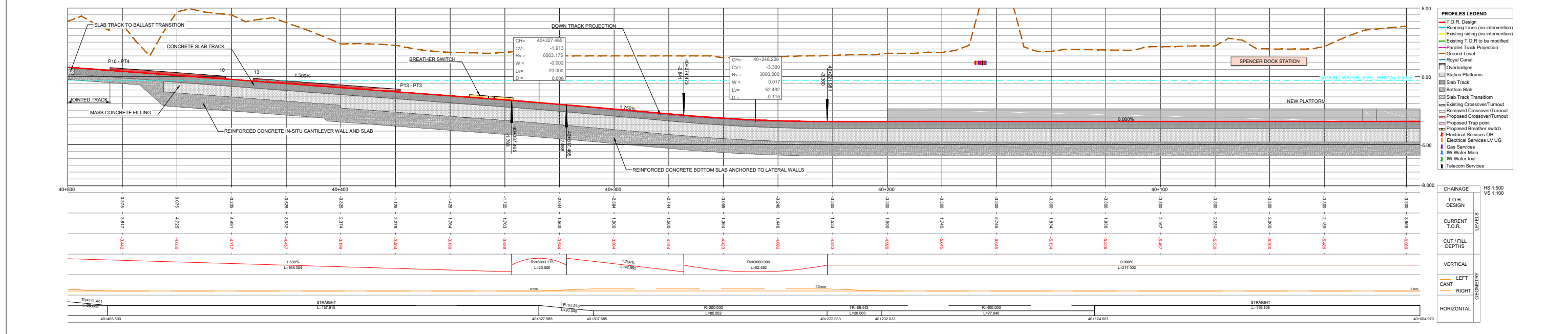
Scale: 1:500 @ A1-XL, 1:1000 @ A3

Drawing Number: **1** | Project: **MDC TRK SC04 DR C 0002 D** | Date: **April 2022** | Job No: **P101086** | Status: **F1-Approved & accepted** | Rev: **V01** | Sheet: **10 of 10**



LAYOUT PLAN SECTION S4 UPLINE

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED P&C		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 SXX	MILES POST	EXISTING P&C	PROPOSED P&C	PROPOSED TRAP POINT	TRAP POINT TO BE REMOVED	OBX XX	EXISTING OVERBRIDGE	EXISTING FENCES	EXISTING UNDERBRIDGE	WM	WATER MAIN/GRAVITY FOUL	TRK L	TRACK LOWERING STRETCH
10+000 SXX	ACCUMULATIVE STATION POINTS	PROPOSED P&C	PROPOSED BREATHING SWITCH	PROPOSED BREATHING SWITCH	BREATHING SWITCH TO BE REMOVED	UBX XX	OVERBRIDGE REBUILD/LIFTING	PROPOSED FENCES	PROPOSED UNDERBRIDGE	EH	ELECTRICAL SERVICES OHUG	TRK R	TRACK REALIGNMENT STRETCH
XX JCT	RAIL CENTERLINES AND TRACKS	P&C TO BE REMOVED	EXISTING TRAP POINT	EXISTING TRAP POINT	FOULING POINT	OBX XX	OVERBRIDGE/LC/O TO BE REMOVED	EXISTING/PROPOSED WALLS	EXISTING STATIONS	GS	GAS SERVICES	OPW	EXTIMATED OPW FLOODING AREAS
XX JCT	JUNCTIONS	BUFFER STOP	EXISTING BREATHING SWITCH	EXISTING BREATHING SWITCH	EXISTING TGA	OBX XX	PROPOSED OVERBRIDGE/LC	SLAB TRACKS/SLAB TRACK TRANSITION		TELECOMMUNICATION SERVICES			



LONGITUDINAL PROFILE SECTION S4 UPLINE

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
- A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY REVIEWED BY APPROVED BY					

Client: **Transportation Infrastructure 2040**, **NTA**, **Irish Rail**

Consultant: **IDOM**, **JROD**

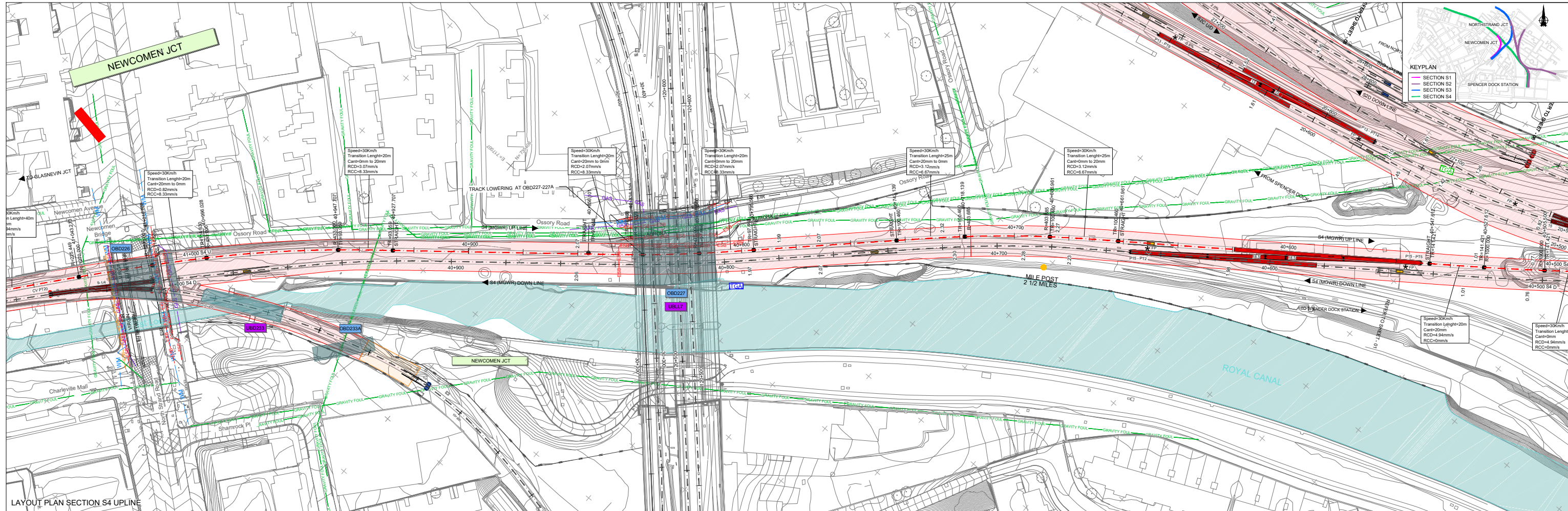
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S4 UPLINE**

Drawing Number: **MAY MDC TRK SC00 DR C 0002 D**

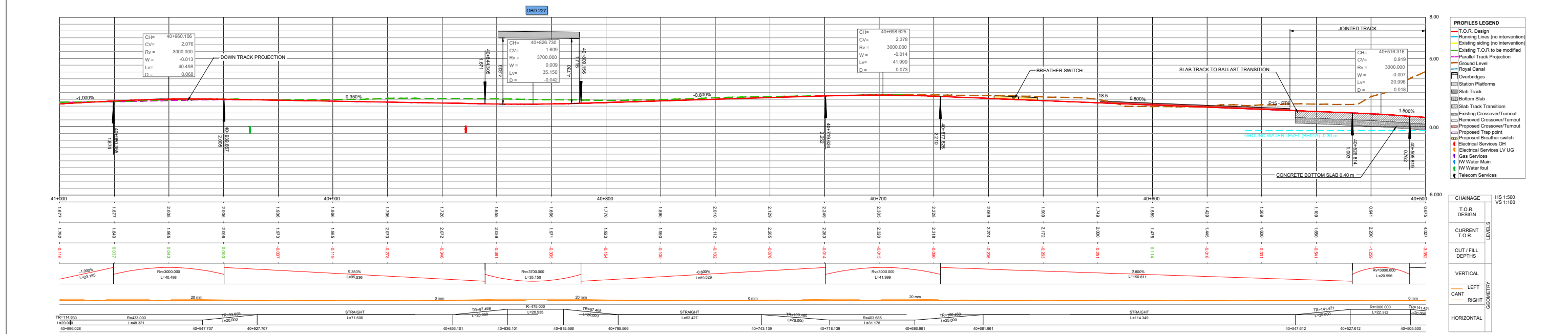
Scale: 1:1000 @ A1 1:2000 @ A3

Date: April 2022 | Job No: P/101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 01 of 14



LAYOUT PLAN SECTION S4 UPLINE

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 10+000 330x	MILES POST	10+000 10+000 330x	EXISTING P&C	10+000 10+000 330x	PROPOSED TRAP POINT	10+000 10+000 330x	TRAP POINT TO BE REMOVED	OBX XX	EXISTING OVERBRIDGE	10+000 10+000 330x	EXISTING FENCES	10+000 10+000 330x	WATER MAIN/GRAVITY FOUL	10+000 10+000 330x	TRACK LOWERING STRETCH
10+000 10+000 330x	ACCUMULATIVE STATION POINTS	10+000 10+000 330x	PROPOSED P&C	10+000 10+000 330x	PROPOSED BREATHING SWITCH	10+000 10+000 330x	BREATHING SWITCH TO BE REMOVED	UBX XX	OVERBRIDGE REBUILD/LIFTING	10+000 10+000 330x	PROPOSED FENCES	10+000 10+000 330x	ELECTRICAL SERVICES OHUG	10+000 10+000 330x	TRACK REALIGNMENT STRETCH
10+000 10+000 330x	RAIL CENTERLINES AND TRACKS	10+000 10+000 330x	P&C TO BE REMOVED	10+000 10+000 330x	EXISTING TRAP POINT	10+000 10+000 330x	FOULING POINT	OBX XX	OVERBRIDGE/CTO TO BE REMOVED	10+000 10+000 330x	EXISTING/PROPOSED WALLS	10+000 10+000 330x	GAS SERVICES	10+000 10+000 330x	ESTIMATED OPW FLOODING AREAS
10+000 10+000 330x	JUNCTIONS	10+000 10+000 330x	BUFFER STOP	10+000 10+000 330x	EXISTING BREATHING SWITCH	10+000 10+000 330x	EXISTING TGA	OBX XX	PROPOSED OVERBRIDGE/CTO	10+000 10+000 330x	SLAB TRACK/SLAB TRACK TRANSITION	10+000 10+000 330x	TELECOMMUNICATION SERVICES	10+000 10+000 330x	



LONGITUDINAL PROFILE SECTION S4 UPLINE

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
- A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/INVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY REVIEWED BY APPROVED BY					

Client: **Transportation 2040**, **NTA** (National Transport Authority), **Iarnród Éireann Irish Rail**

Consultant: **IDOM**, **JROD**

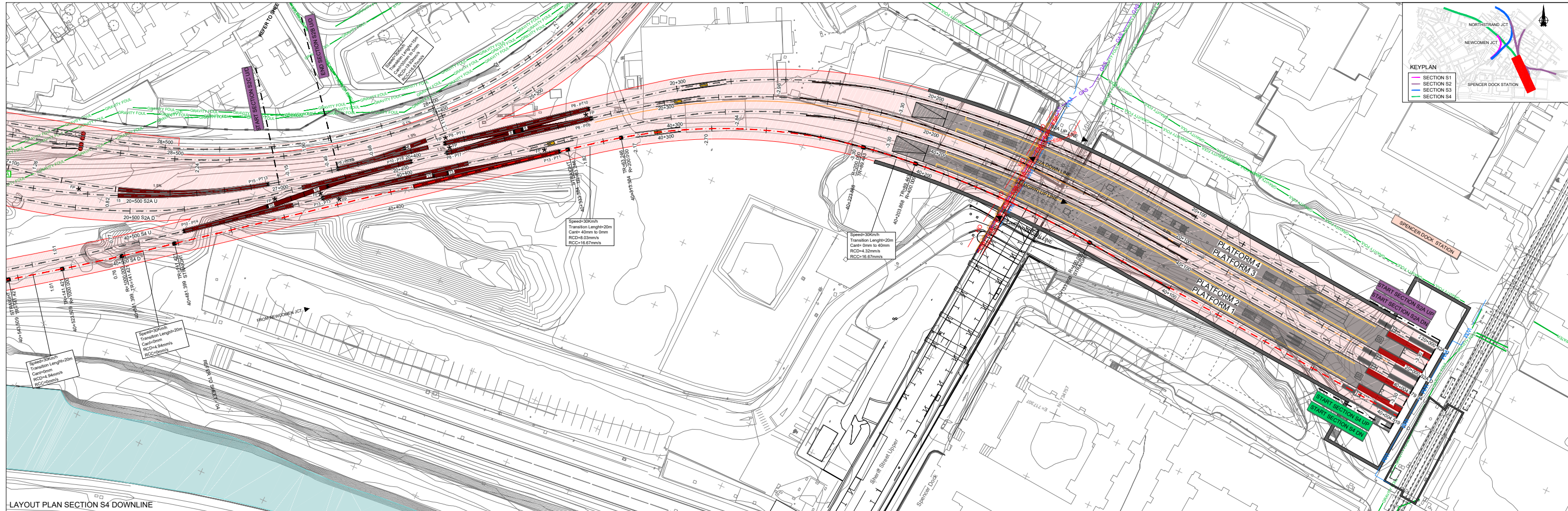
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S4 UPLINE**

Scale: 1:1000 @ A1 1:2000 @ A3

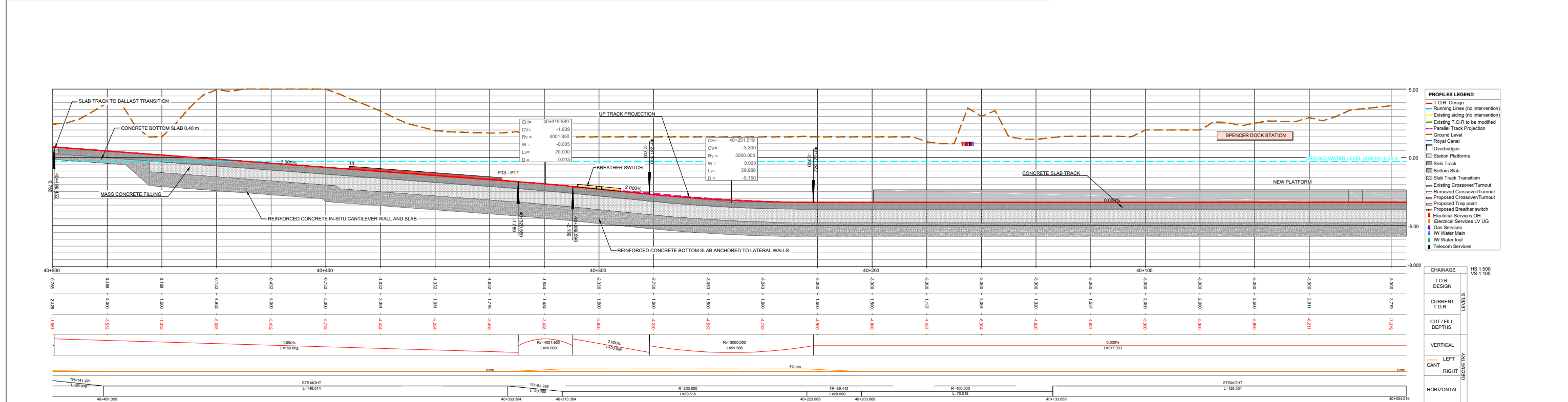
Drawing Number: **1** | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 | Job No: P101086 | Status: F1-Approved & accepted | Rev: W1 | Sheet: 02 of 14



LAYOUT PLAN SECTION S4 DOWNLINE

ALIGNMENT LEGEND		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 30x	MILES POST	CBX XX	EXISTING OVERBRIDGE	EXISTING FENCES	WM	WATER MAIN/GRAVITY FOUL	TR	TRACK LOWERING STRETCH	
10+000 30x	ACCUMULATIVE STATION POINTS	UBX XX	OVERBRIDGE REBUILD/LIFTING	PROPOSED FENCES	OHUG	ELECTRICAL SERVICES OHUG	TR	TRACK REALIGNMENT STRETCH	
10+000 30x	RAIL CENTERLINES AND TRACKS	CBX XX	OVERBRIDGE/TO BE REMOVED	EXISTING/PROPOSED WALLS	GS	GAS SERVICES	OPW	ESTIMATED OPW FLOODING AREAS	
XX JCT	JUNCTIONS	CBX XX	PROPOSED OVERBRIDGE/CL	SLAB TRACK/SLAB TRACK TRANSITION	TELECOM	TELECOMMUNICATION SERVICES			

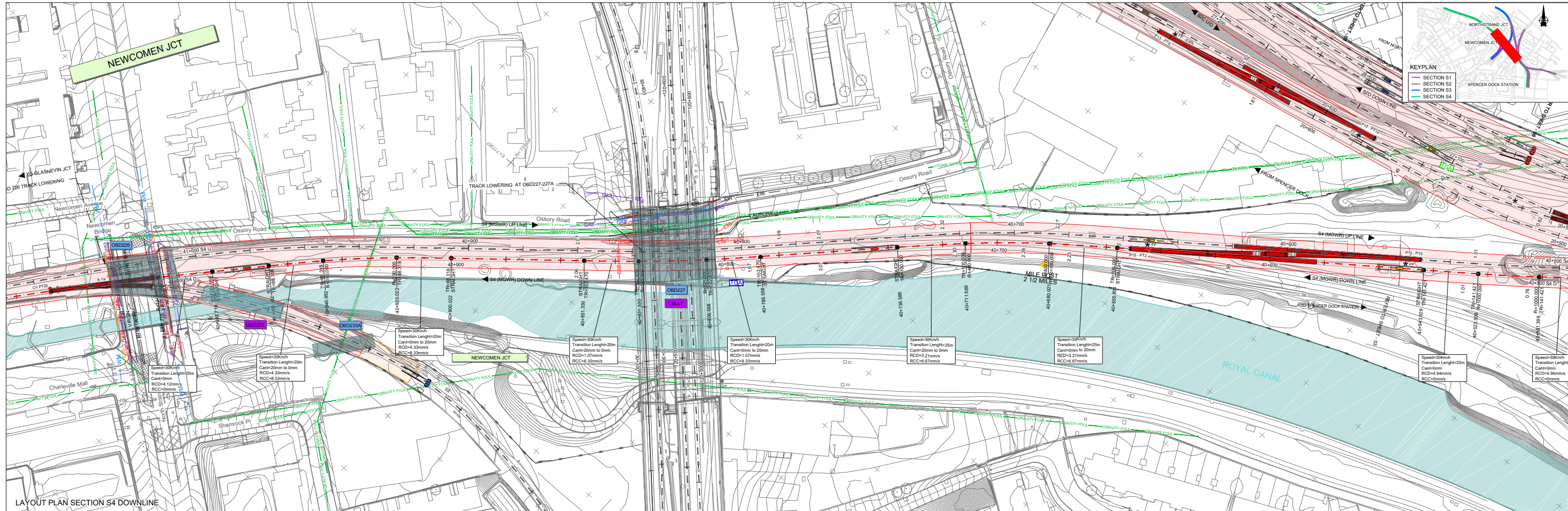


LONGITUDINAL PROFILE SECTION S4 DOWNLINE

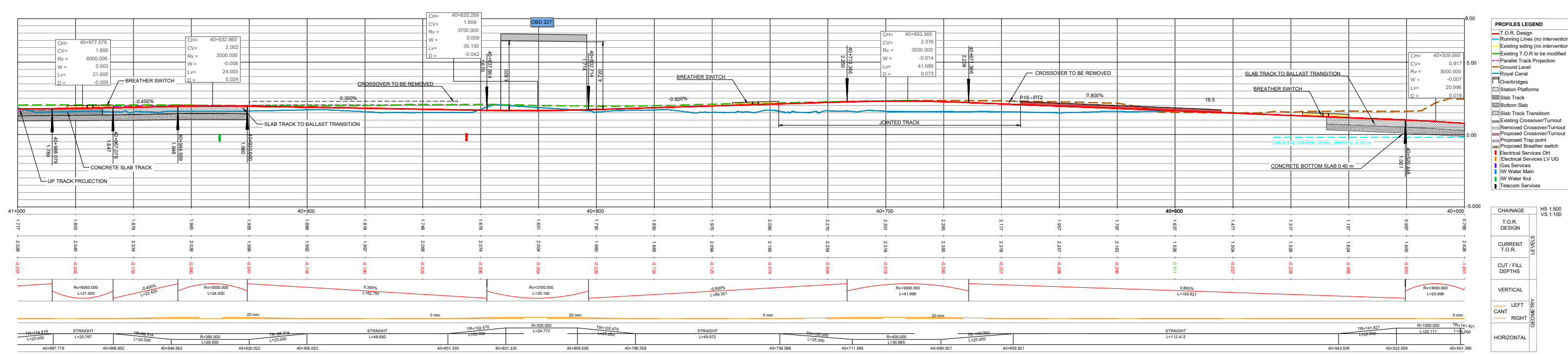
NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
- A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.

CHANGAGE T.O.R. DESIGN CURRENT T.O.R. CUT / FILL DEPTHS VERTICAL CANT HORIZONTAL		HS 1:500 VS 1:100
NOTES 1. DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES. 2. A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN AVAILABLE.		Client Taisceal Éireann 2040 NTA National Transport Authority lamróid Éireann Irish Rail
Consultant IDOM JROD		Project DART+ West
Client Taisceal Éireann 2040 NTA National Transport Authority lamróid Éireann Irish Rail		Drawing Title PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S4 DOWNLINE
Client Taisceal Éireann 2040 NTA National Transport Authority lamróid Éireann Irish Rail		Drawing Number MAY MDC TRK SC00 DR C 0002 Phase D
Client Taisceal Éireann 2040 NTA National Transport Authority lamróid Éireann Irish Rail		Scale: 1:1000 @ A1 1:2000 @ A3 0 5 12.5 25 50
Client Taisceal Éireann 2040 NTA National Transport Authority lamróid Éireann Irish Rail		Date: April 2022 Job No.: P1/101086 Status: F1-Approved & accepted Rev: W1 Sheet: 03 of 14



ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 500	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	OBXX	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	WATER MAIN/GRAVITY FOUL	---	TRACK LOWERING STRETCH
10+000 500	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHING SWITCH	OBXX	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	ELECTRICAL SERVICES OHUG	---	TRACK REALIGNMENT STRETCH
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	OBXX	OVERBRIDGE/TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	GAS SERVICES	---	ESTIMATED OPW FLOODING AREAS
---	JUNCTIONS	---	BUFFER ZONE	---	EXISTING BREATHING SWITCH	OBXX	PROPOSED OVERBRIDGE/CTO	---	SLAB TRACK/SLAB TRACK TRANSITION	---	TELECOMMUNICATION SERVICES	---	



PROFILES LEGEND		CHAINAGE	
---	T.O.R. Design	40+500	HS 1500
---	Existing siding (no intervention)	40+500	VS 1:100
---	Existing T.O.R. to be modified		
---	Ground Level		
---	Royal Canal		
---	Overbridges		
---	Station Platforms		
---	Slab Track		
---	Bottom Slab		
---	Slab Track Transition		
---	Existing Crossover/Turnout		
---	Removed Crossover/Turnout		
---	Proposed Crossover/Turnout		
---	Proposed Trap point		
---	Proposed Breather switch		
---	Electrical Services OHUG		
---	Electrical Services LV UG		
---	Gas Services		
---	W Water Main		
---	W Water foul		
---	Telecom Services		

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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Client: Transport Infrastructure Authority (TIA), National Transport Authority (NTA), Irish Rail

Project: DART+ West

Drawing Title: PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S4 DOWNLINE

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number: MAY MDC TRK SC00 DR C 0002 D

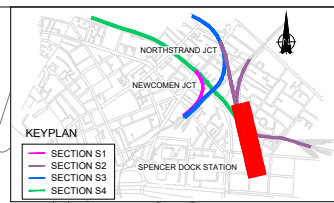
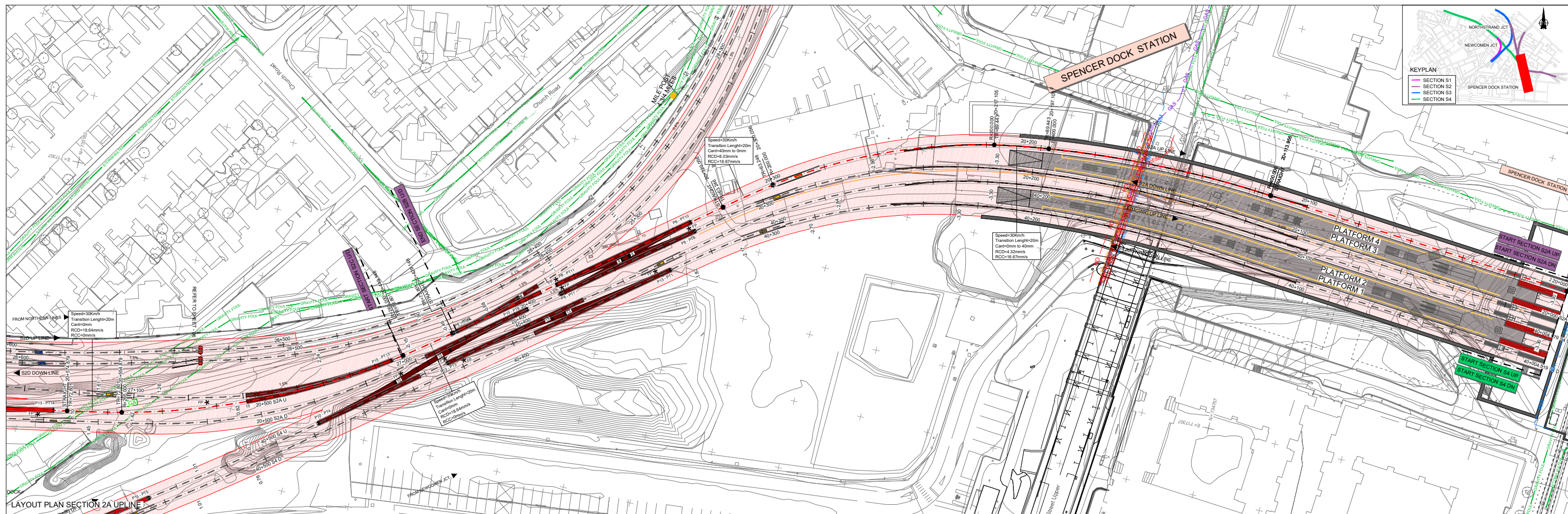
Date: April 2022

Job No.: P1/01086

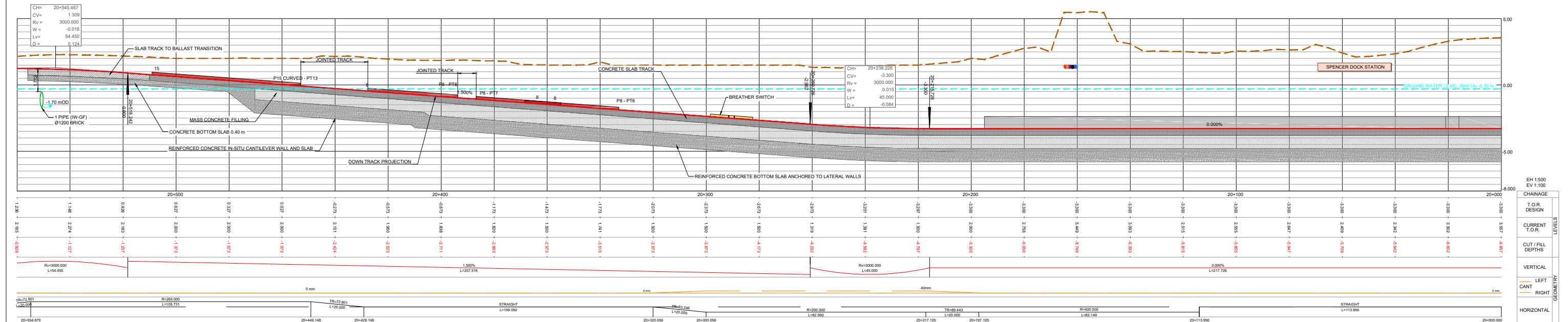
Status: F1-Approved & accepted

Rev: V01

Sheet: 04 of 14



ALIGNMENT LEGEND		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 SXX	10+000 SXX	CBX XX	CBX XX	UBX XX	UBX XX	WM	WM	ES	ES
RAIL CENTERLINES AND TRACKS	PROPOSED P&C	EXISTING OVERBRIDGE	PROPOSED OVERBRIDGE	EXISTING UNDERBRIDGE	PROPOSED UNDERBRIDGE	WATER MAIN/GRAVITY FOUL	ELECTRICAL SERVICES OHUG	TRACK LOWERING STRETCH	TRACK REALIGNMENT STRETCH
XX JCT	PROPOSED TRAP POINT	OVERBRIDGE REBUILD/LIFTING	OVERBRIDGE TO BE REMOVED	EXISTING STATIONS	EXISTING STATIONS	DM	GAS SERVICES	ESTIMATED OPW FLOODING AREAS	
	EXISTING TRAP POINT	OVERBRIDGE/CTO TO BE REMOVED	PROPOSED OVERBRIDGE/CTO	EXISTING FENCES	PROPOSED FENCES	GS	TELECOMMUNICATION SERVICES		
	EXISTING BREATHING SWITCH	PROPOSED OVERBRIDGE/CTO		EXISTING/PROPOSED WALLS	EXISTING/PROPOSED WALLS				
	EXISTING TGA			SLAB TRACK/SLAB TRACK TRANSITION	SLAB TRACK/SLAB TRACK TRANSITION				



LONGITUDINAL PROFILE SECTION S2A UPLINE

NOTES
 1. DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY: [Name] REVIEWED BY: [Name] APPROVED BY: [Name]					

Client: **Transport for Ireland 2040**, **NTA**, **Irish Rail**

Consultant: **IDOM**, **JROD**

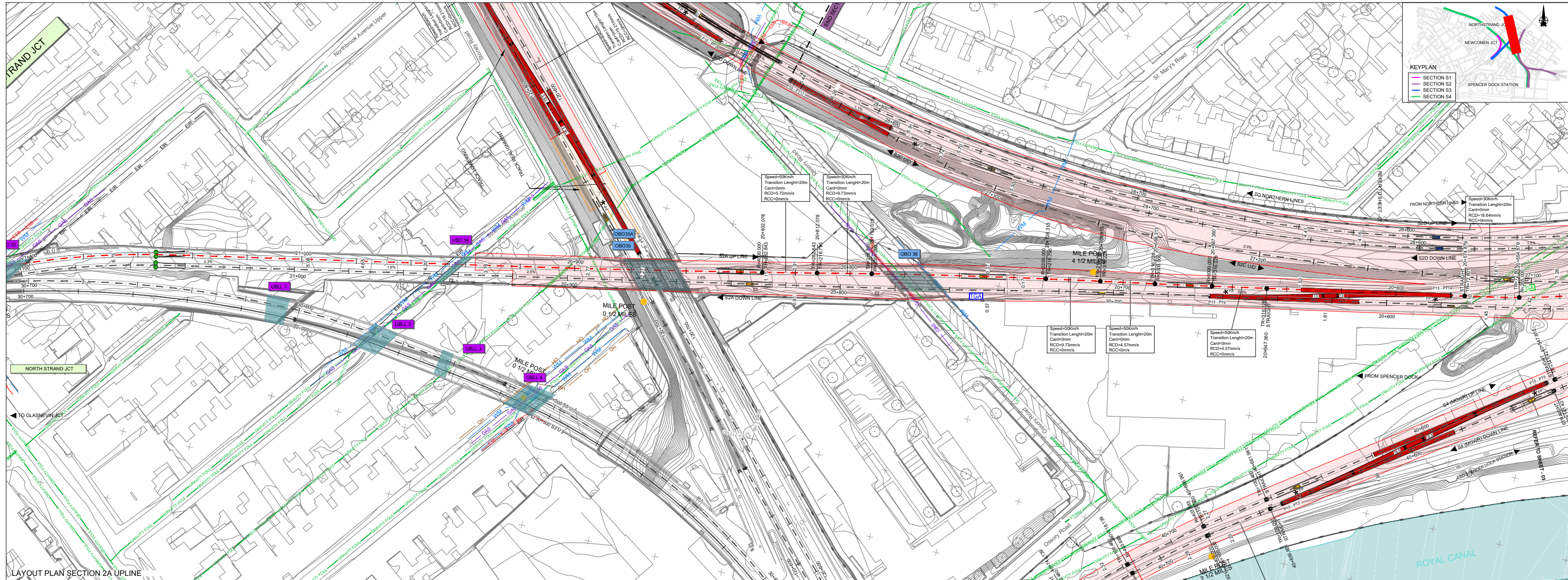
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2A UPLINE**

Scale: 1:1000 @ A1 1:2000 @ A3

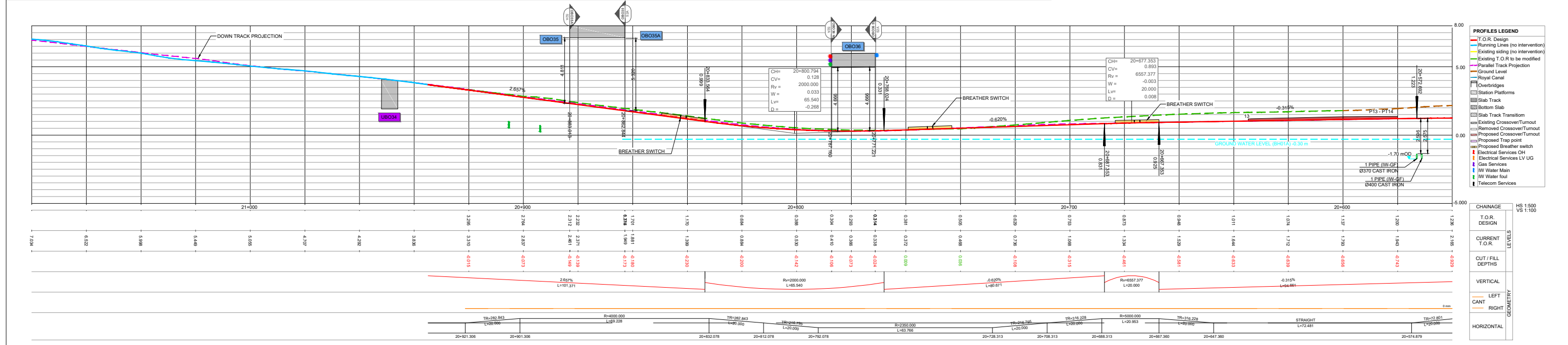
Drawing Number: 1 | Project | Originator | Discipline | Location | Type | Role | Number | Phase
 MAY MDC TRK SC00 DR C 0002 D

Date: April 2022 Job No: P1/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 05 of 14



ALIGNMENT LEGEND

	MILES POST		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		EXISTING OVERBRIDGE		EXISTING UNDERBRIDGE		EXISTING FENCES		WATER MAIN/GRAVITY FOUL		TRACK LOWERING STRETCH
	ACCUMULATIVE STATION POINTS		PROPOSED P&C		PROPOSED BREATHER SWITCH		BREATHER SWITCH TO BE REMOVED		OVERBRIDGE REBUILDING		PROPOSED UNDERBRIDGE		PROPOSED FENCES		ELECTRICAL SERVICES OHUG		TRACK REALIGNMENT STRETCH
	RAIL CENTERLINES AND TRACKS		P&C TO BE REMOVED		EXISTING TRAP POINT		FOUL POINT		OVERBRIDGE/LC TO BE REMOVED		EXISTING STATIONS		EXISTING/PROPOSED WALLS		GAS SERVICES		ESTIMATED OPW FLOODING AREAS
	JUNCTIONS		BUFFER STOP		EXISTING BREATHER SWITCH		EXISTING TGA		PROPOSED OVERBRIDGE/LC		SLAB TRACK/SLAB TRACK TRANSITION		SLAB TRACK/SLAB TRACK TRANSITION		TELECOMMUNICATION SERVICES		



LONGITUDINAL PROFILE SECTION 2A UPLINE

NOTES

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Client	Tennessee Eastern Railway (TER) 2040			NTA National Transport Authority			Iarnród Éireann Irish Rail		
Project	DART+ West								
Drawing Title	PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2A UPLINE								
Scale:	1:1000 @ A1 1:2000 @ A3			Date:			April 2022		
Job No:	P1/101086			Status:			F1-Approved & accepted		
Rev:	V01			Sheet:			06 of 14		

Client: Tennessee Eastern Railway (TER) 2040, NTA National Transport Authority, Iarnród Éireann Irish Rail

Project: DART+ West

Drawing Title: PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2A UPLINE

Scale: 1:1000 @ A1 1:2000 @ A3

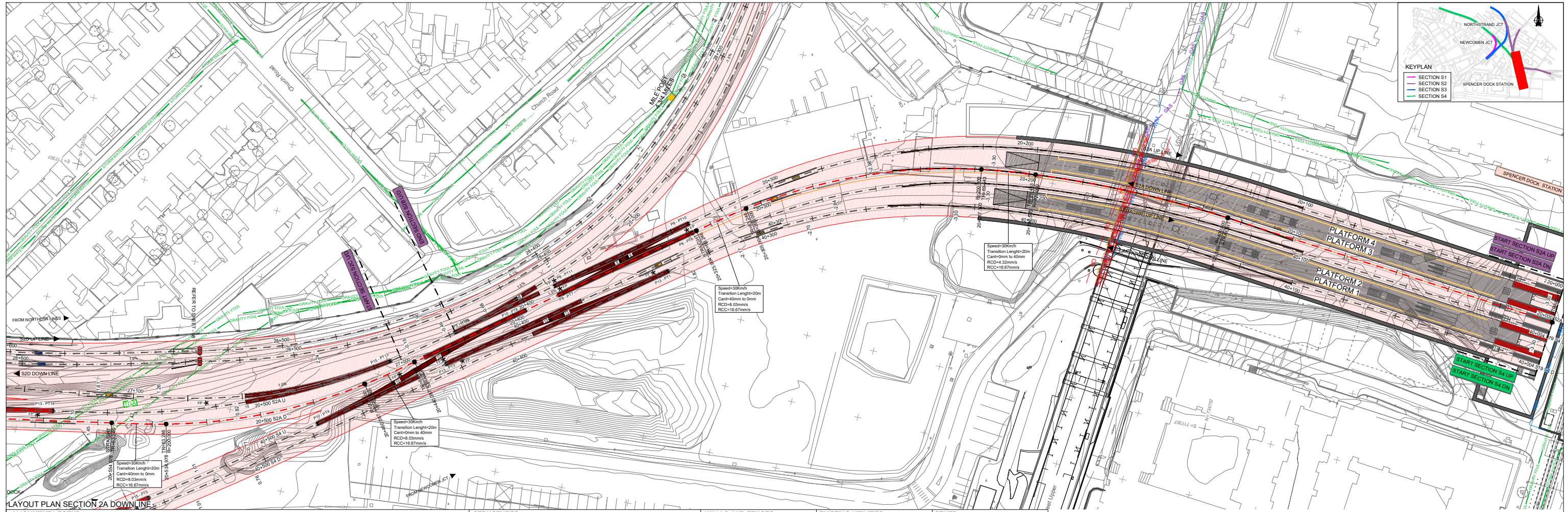
Date: April 2022

Job No: P1/101086

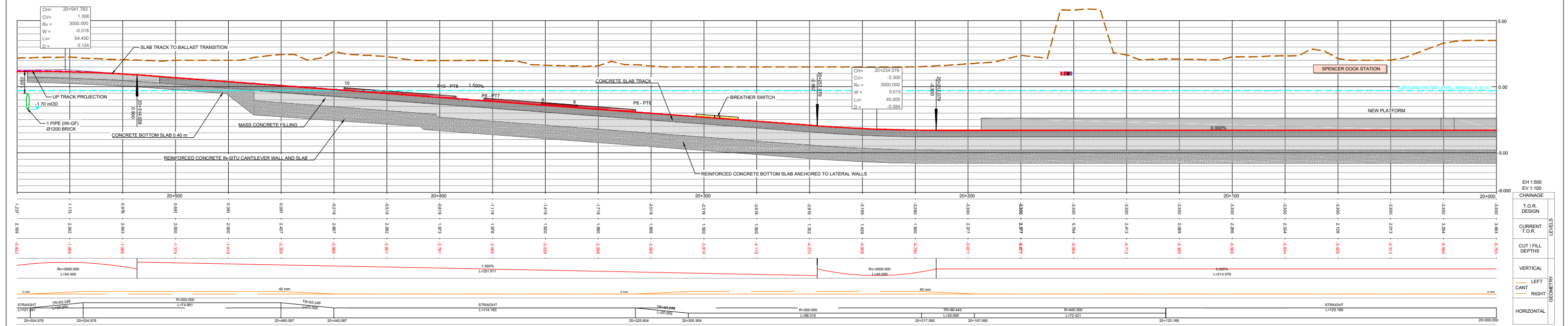
Status: F1-Approved & accepted

Rev: V01

Sheet: 06 of 14



ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000.000	ACCUMULATIVE STATION POINTS		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		EXISTING OVERBRIDGE		EXISTING FENCES		WATER MAIN/GRAVITY FOUL		TRACK LOWERING STRETCH
10+000.000	RAIL CENTERLINES AND TRACKS		PROPOSED P&C		PROPOSED TRAP SWITCH		BREATHER SWITCH TO BE REMOVED		EXISTING UNDERBRIDGE		PROPOSED FENCES		ELECTRICAL SERVICES OHUG		TRACK REALIGNMENT STRETCH
XX.XXX	JUNCTIONS		P&C TO BE REMOVED		EXISTING TRAP POINT		FOULING POINT		OVERBRIDGE TO BE REMOVED		EXISTING/PROPOSED WALLS		GAS SERVICES		ESTIMATED OPW FLOODING AREAS
			BUFFER STOP		EXISTING BREATHER SWITCH		EXISTING TGA		PROPOSED OVERBRIDGE/GC		SLAB TRACK/SLAB TRACK TRANSITION		TELECOMMUNICATION SERVICES		



LONGITUDINAL PROFILE SECTION S2A DOWNLINE

NOTES

- DRAWING ALIGNMENT CHECK REPRESENTS THE TRACK LOWERING FOR BOTH TRACKS. HOWEVER, FOR THIS STAGE OF THE DESIGN, ONLY THE DOWN ALIGNMENT HAS BEEN PRODUCED FOR MOST TRACKS, AND THE UP ALIGNMENT WILL BE PROVIDED AT A LATER STAGE. IN OTHER CASES, DUE TO THE OVERLAP BETWEEN TRACKS THE PROJECTED TRACK IS NOT ALWAYS VISIBLE IN THE LONGITUDINAL PROFILES.
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY: [REDACTED] REVIEWED BY: [REDACTED] APPROVED BY: [REDACTED]					

Client: **Transport for Ireland 2040**, **NTA**, **Iarnród Éireann Irish Rail**

Consultant: **IDOM**, **JROD**

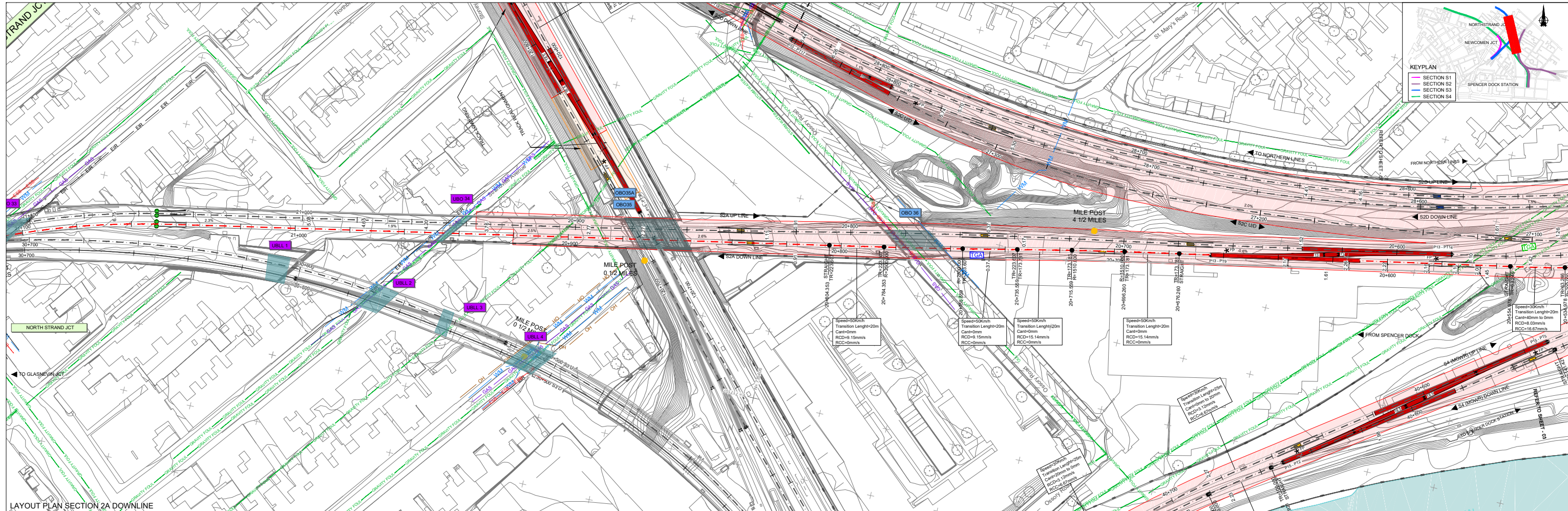
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2A DOWNLINE**

Scale: 1:1000 @ A1 1:2000 @ A3

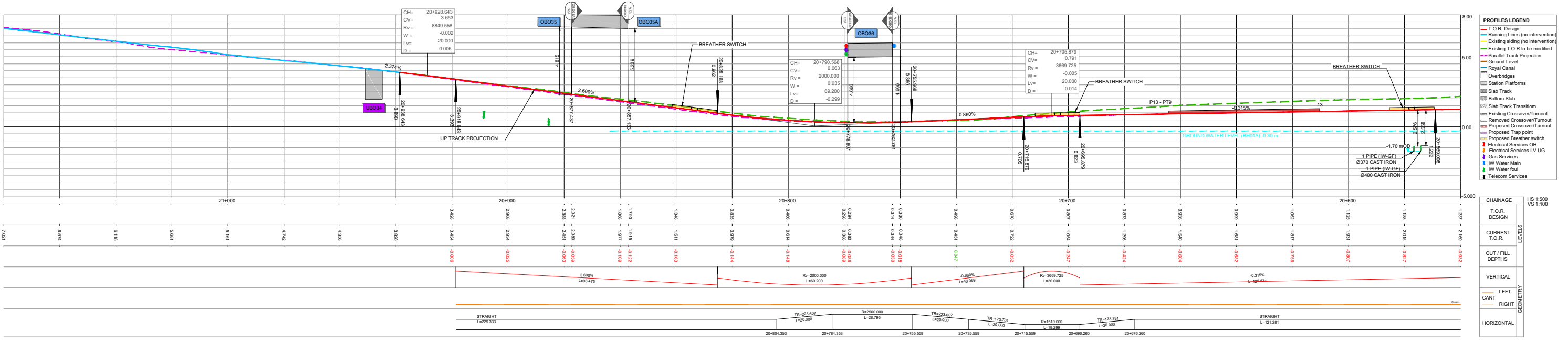
Drawing Number: **1** | Project: **MAY MDC TRK SC00 DR C 0002** | Phase: **D**

Date: **April 2022** | Job No: **P1/101086** | Status: **F1-Approved & accepted** | Rev: **V01** | Sheet: **07** of **14**



LAYOUT PLAN SECTION 2A DOWNLINE

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 50X	MILES POST	Existing P&C	PROPOSED P&C	Proposed Trap Point	Trap Point to be Removed	OBXX	Existing Overbridge	UBXX	Existing Underbridge	Existing Fences	Water Main/Gravity Foul	Track Lowering Stretch	WM	Track Realignment Stretch	Estimated OPW Flooding Areas
XXJCT	ACCUMULATIVE STATION POINTS	P&C to be Removed	Proposed Breather Switch	Breather Switch to be Removed	Fouling Point	OBXX	Overbridge Rebuild/Lifting	UBXX	Proposed Underbridge	Proposed Fences	Electrical Services OHUG	Track Realignment Stretch	OH	Track Realignment Stretch	Estimated OPW Flooding Areas
XXJCT	RAIL CENTERLINES AND TRACKS	Buffer Stop	Existing Trap Point	Existing TGA	Existing TGA	OBXX	Overbridge to be Removed	UBXX	Existing Stations	Existing/Proposed Walls	Gas Services	Track Lowering Stretch	Gas	Track Lowering Stretch	Estimated OPW Flooding Areas
XXJCT	JUNCTIONS	Proposed Breather Switch	Existing Breather Switch	Existing TGA	Existing TGA	OBXX	Proposed Overbridge/LC	UBXX	Existing Stations	Slab Track/Slab Track Transition	Telecommunication Services	Track Lowering Stretch	Telecom	Track Lowering Stretch	Estimated OPW Flooding Areas



LONGITUDINAL PROFILE SECTION 2A DOWNLINE

NOTES
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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			
PRODUCED BY/REVIEWED BY/APPROVED BY					

Client:

Consultant:

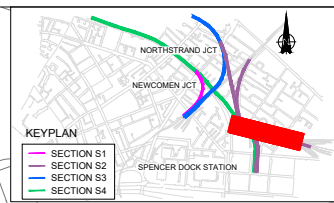
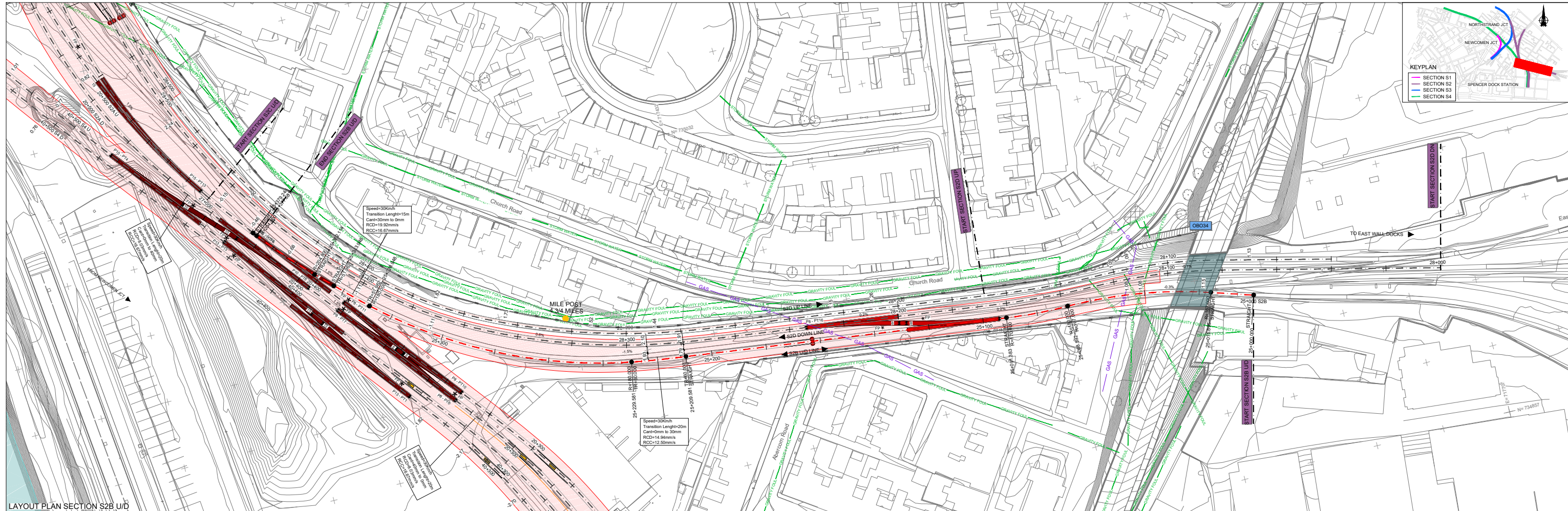
Project:

Drawing Title: PERMANENT WAY DESIGN
SPENCER DOCK, ALIGNMENT AND PROFILES
SPENCER DOCK STATION - SECTION S2A DOWNLINE

Scale: 1:1000 @ A1 1:2000 @ A3

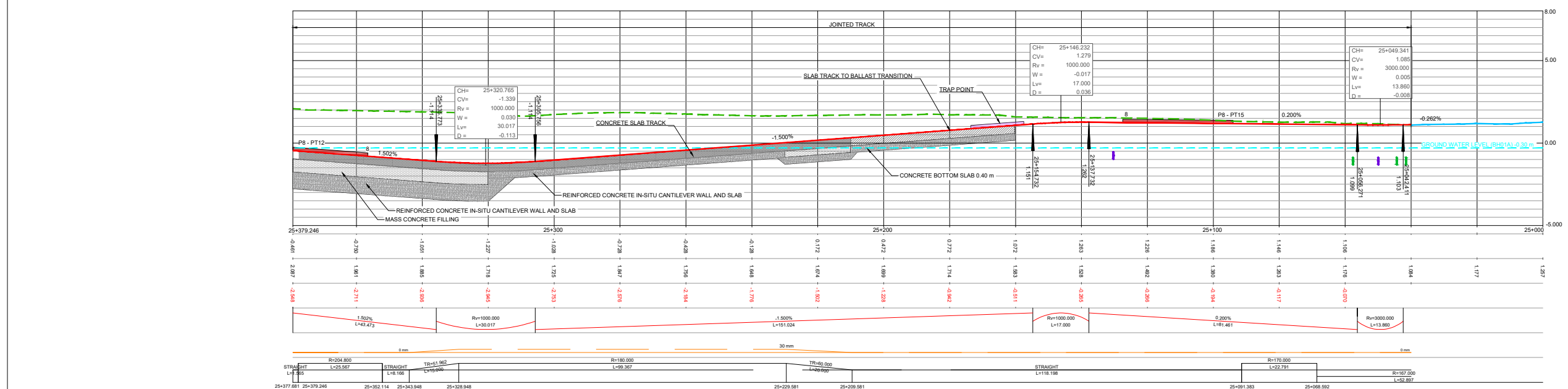
Drawing Number: 1 | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 Job No: P1/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 08 of 14



ALIGNMENT LEGEND

	MILES POST		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED	STRUCTURES
	ACCUMULATIVE STATION POINTS		PROPOSED P&C		PROPOSED BREATHER SWITCH		BREATHER SWITCH TO BE REMOVED	
	RAIL CENTERLINES AND TRACKS		P&C TO BE REMOVED		EXISTING TRAP POINT		FOULING POINT	
	JUNCTIONS		BUFFER STOP		EXISTING BREATHER SWITCH		EXISTING TGA	
								WALLS AND FENCES
								EXISTING UTILITIES
								OTHER



PROFILES LEGEND

- T.O.R. Design
- Running Lines (no intervention)
- Existing siding (no intervention)
- Existing T.O.R. to be modified
- Parallel Track Projection
- Ground Level
- Royal Canal
- Overbridges
- Station Platforms
- Slab Track
- Bottom Slab
- Slab Track Transition
- Existing Crossover/Turnout
- Removed Crossover/Turnout
- Proposed Crossover/Turnout
- Proposed Trap point
- Proposed Breather switch
- Electrical Services OH
- Electrical Services LV UG
- Gas Services
- IW Water Main
- IW Water foul
- Telecom Services

CHANGAGE HS 1:500 VS 1:100

T.O.R. DESIGN

CURRENT T.O.R.

CUT / FILL DEPTHS

VERTICAL

CANT LEFT RIGHT

HORIZONTAL

LONGITUDINAL PROFILE SECTION S2B U/D

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Client	The National Transport Authority (NTA) 2040			
Consultant	IDOM	JROD	DART+ West	
Project	PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2B U/D			
Drawing Title	PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2B U/D			
Scale:	1:1000 @ A1 1:2000 @ A3			
Drawing Number	1	Project	1	Originator/ Discipline
Date	April 2022	Job No:	P/101086	Status:
Rev:	01	Rev:	01	Sheet:

Client: The National Transport Authority (NTA) 2040

Consultant: IDOM, JROD, DART+ West

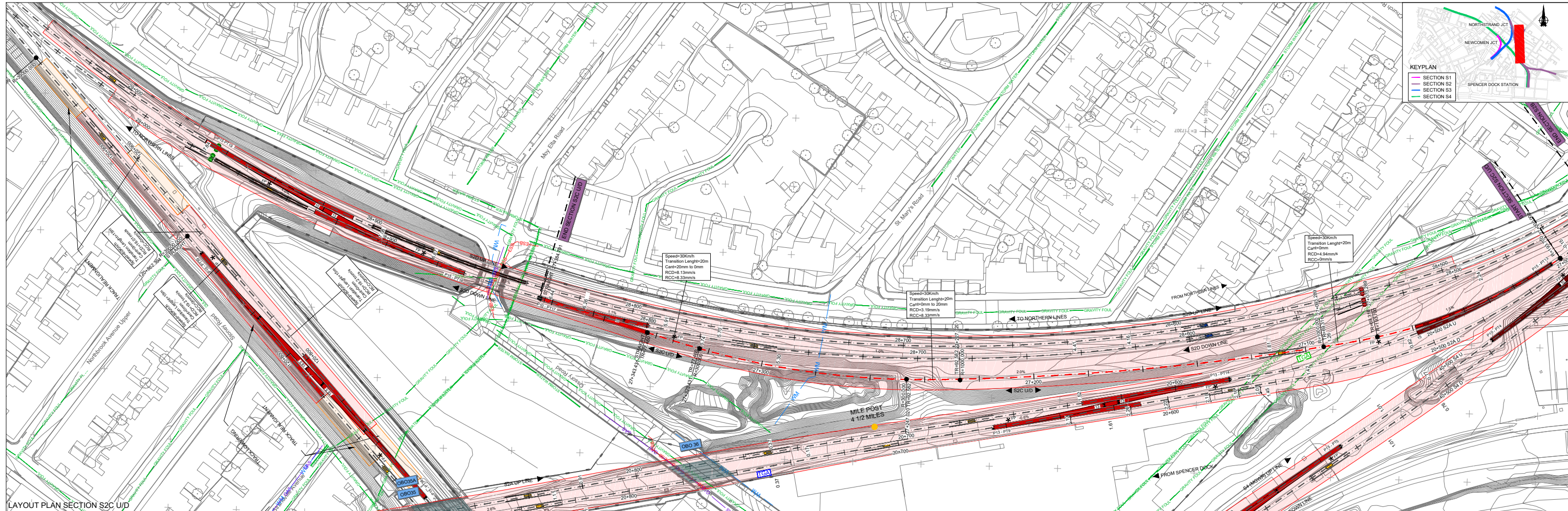
Project: PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2B U/D

Drawing Title: PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2B U/D

Scale: 1:1000 @ A1 1:2000 @ A3

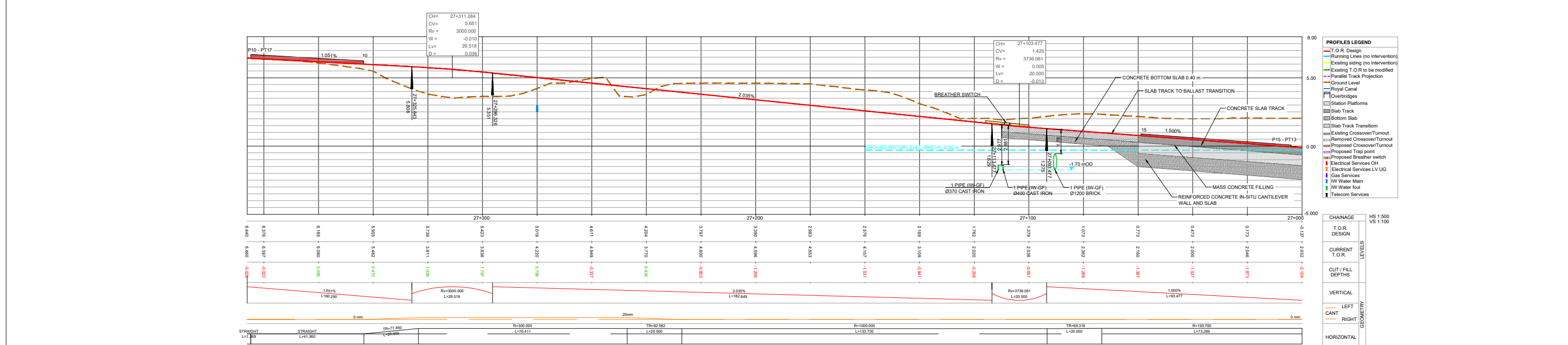
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Date: April 2022 | Job No: P/101086 | Status: FI-Approved & accepted | Rev: 01 | Sheet: 09 of 14



LAYOUT PLAN SECTION S2C U/D

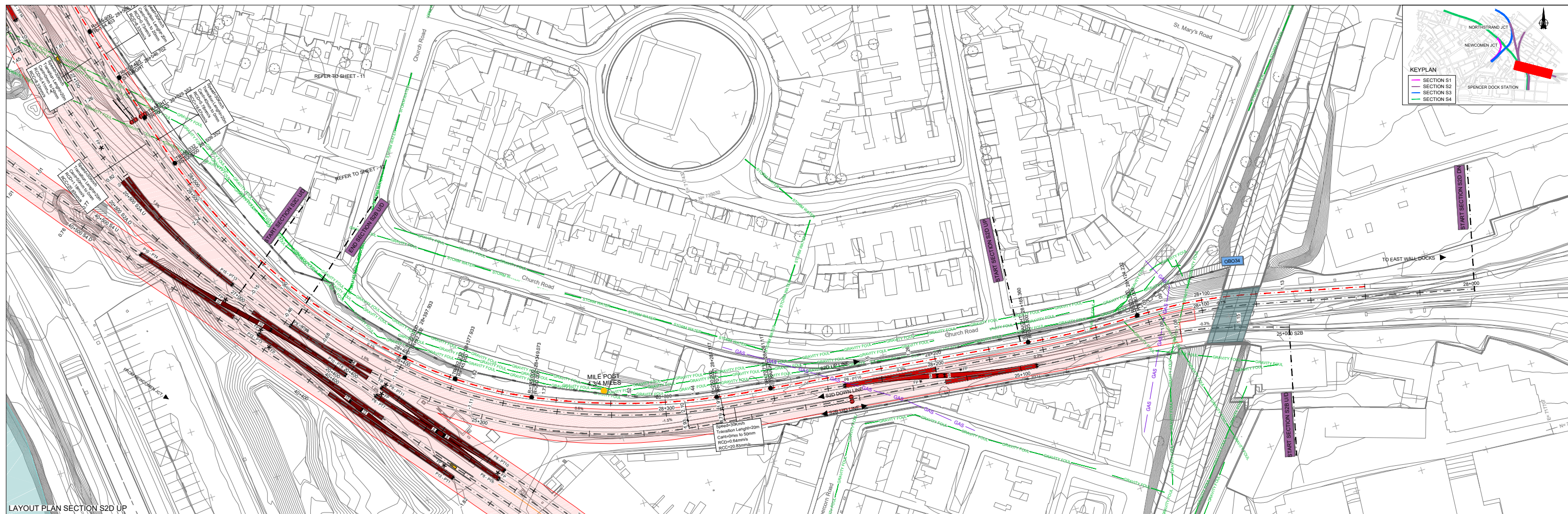
ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 33XX	MILES POST	10+000 33XX	EXISTING P&C	10+000 33XX	PROPOSED TRAP POINT	10+000 33XX	TRAP POINT TO BE REMOVED	10+000 33XX	EXISTING OVERBRIDGE	10+000 33XX	EXISTING FENCES	10+000 33XX	WATER MAIN/GRAVITY FOUL	10+000 33XX	TRACK LOWERING STRETCH
10+000 33XX	ACCUMULATIVE STATION POINTS	10+000 33XX	PROPOSED P&C	10+000 33XX	PROPOSED BREATHING SWITCH	10+000 33XX	BREATHING SWITCH TO BE REMOVED	10+000 33XX	OVERBRIDGE REBUILD/LIFTING	10+000 33XX	PROPOSED FENCES	10+000 33XX	ELECTRICAL SERVICES OHUG	10+000 33XX	TRACK REALIGNMENT STRETCH
10+000 33XX	RAIL CENTERLINES AND TRACKS	10+000 33XX	P&C TO BE REMOVED	10+000 33XX	EXISTING TRAP POINT	10+000 33XX	FOULING POINT	10+000 33XX	OVERBRIDGE/TO BE REMOVED	10+000 33XX	EXISTING/PROPOSED WALLS	10+000 33XX	GAS SERVICES	10+000 33XX	ESTIMATED OPW FLOODING AREAS
10+000 33XX	JUNCTIONS	10+000 33XX	BUFFER STOP	10+000 33XX	EXISTING BREATHING SWITCH	10+000 33XX	EXISTING TGA	10+000 33XX	PROPOSED OVERBRIDGE/CTC	10+000 33XX	SLAB TRACK/SLAB TRACK TRANSITION	10+000 33XX	TELECOMMUNICATION SERVICES	10+000 33XX	



NOTES

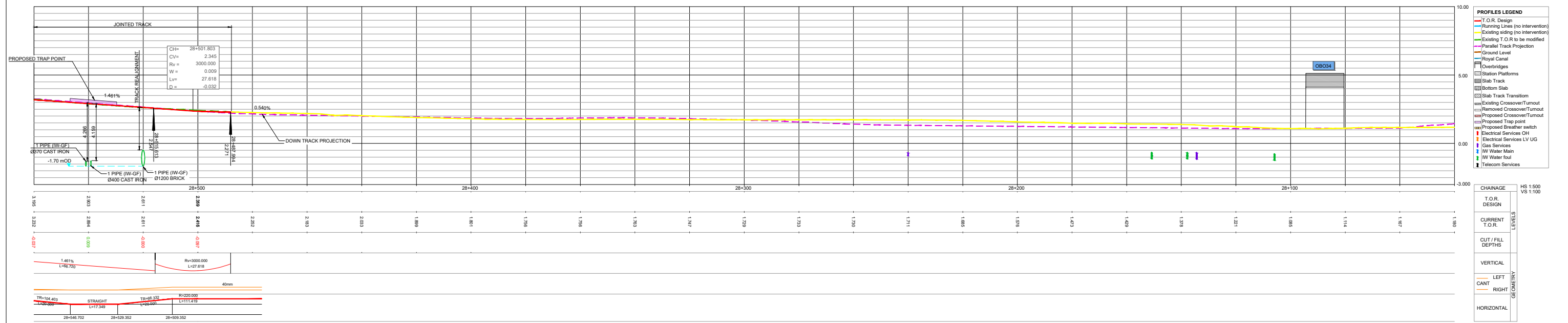
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<p>Client</p>			<p>Project</p>			<p>Drawing Title</p> <p>PERMANENT WAY DESIGN SPENCER DOCK STATION - ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2C U/D</p>														
<p>Consultant</p>			<p>Scale:</p> <p>1:1000 @ A1 1:2000 @ A3</p>			<p>Drawing Number 1</p> <p>Project Originator Discipline Location Type Role Number Phase</p> <p>MAY MDC TRK SC00 DR C 0002 D</p>														
<p>Revision Table</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>SDR</th> <th>MRI</th> <th>CCH</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			REV	DATE	DESCRIPTION	SDR	MRI	CCH							<p>Date: April 2022</p> <p>Job No: P1101086</p> <p>Status: F1-Approved & accepted</p> <p>Rev: V01</p> <p>Sheet: 10 of 14</p>			<p>Scale: 1:1000 @ A1 1:2000 @ A3</p> <p>Date: April 2022</p> <p>Job No: P1101086</p> <p>Status: F1-Approved & accepted</p> <p>Rev: V01</p> <p>Sheet: 10 of 14</p>		
REV	DATE	DESCRIPTION	SDR	MRI	CCH															



LAYOUT PLAN SECTION S2D UP

ALIGNMENT LEGEND		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
	MILES POST		EXISTING P&C		EXISTING OVERBRIDGE		EXISTING FENCES		TRACK LOWERING STRETCH
	ACCUMULATIVE STATION POINTS		PROPOSED P&C		OVERBRIDGE REBUILD/LIFTING		PROPOSED FENCES		TRACK REALIGNMENT STRETCH
	RAIL CENTERLINES AND TRACKS		P&C TO BE REMOVED		OVERBRIDGE/CLTO TO BE REMOVED		EXISTING/PROPOSED WALLS		ESTIMATED OPW FLOODING AREAS
	JUNCTIONS		PROPOSED TRAP POINT		PROPOSED OVERBRIDGE/CL		SLAB TRACK/SLAB TRACK TRANSITION		
			PROPOSED BREATHER SWITCH		EXISTING UNDERBRIDGE				WATER MAIN/GRAVITY FOUL
			P&C TO BE REMOVED		TRAP POINT TO BE REMOVED				ELECTRICAL SERVICES OHUG
			EXISTING TRAP POINT		BREATHER SWITCH TO BE REMOVED				GAS SERVICES
			BUFFER STOP		FOULING POINT				TELECOMMUNICATION SERVICES
			EXISTING BREATHER SWITCH		EXISTING TGA				



LONGITUDINAL PROFILE SECTION S2D UP

NOTES

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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
V01	April 2022	PLANNING ISSUE			

PRODUCED BY: [Signature] REVIEWED BY: [Signature] APPROVED BY: [Signature]

Client:

Consultant:

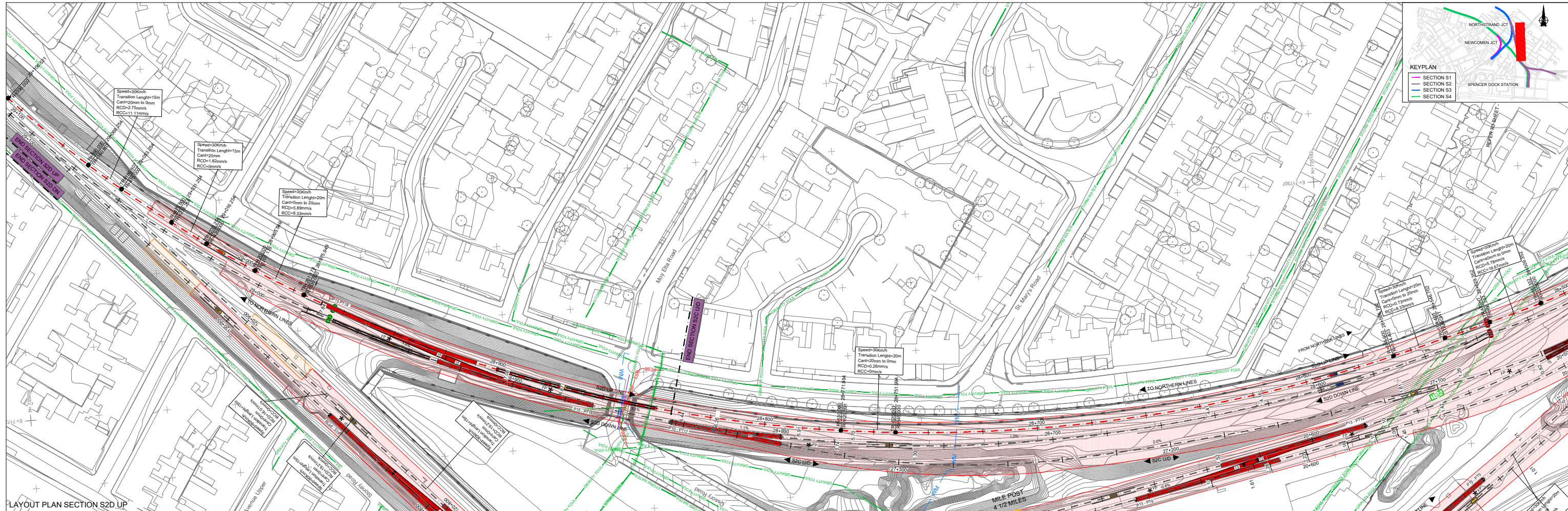
Project:

Drawing Title: PERMANENT WAY DESIGN
SPENCER DOCK, ALIGNMENT AND PROFILES
SPENCER DOCK STATION - SECTION S2D UP

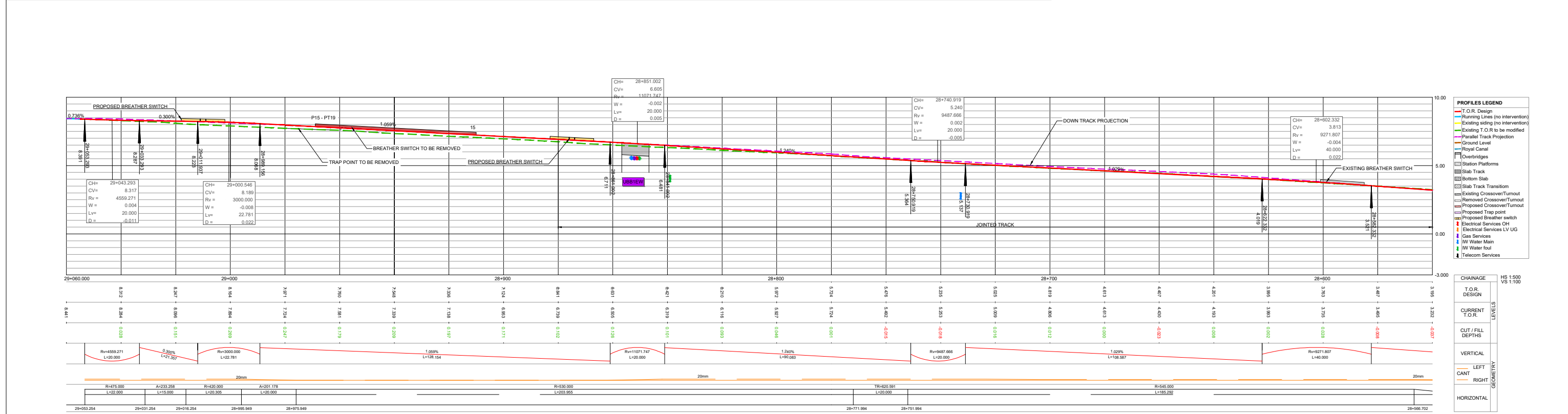
Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number: 1 | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 Job No: P1/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 11 of 14



ALIGNMENT LEGEND		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 SXX	MILES POST	EXISTING P&C	PROPOSED TRAP POINT	EXISTING UNDERBRIDGE	EXISTING FENCES	WATER MAIN/GRAVITY FOUL	TRACK LOWERING STRETCH	TRACK LOWERING STRETCH	TRACK LOWERING STRETCH
10+000 SXX	ACCUMULATIVE STATION POINTS	PROPOSED P&C	PROPOSED BREATHING SWITCH	PROPOSED UNDERBRIDGE	PROPOSED FENCES	ELECTRICAL SERVICES OHUG	TRACK REALIGNMENT STRETCH	TRACK REALIGNMENT STRETCH	TRACK REALIGNMENT STRETCH
10+000 SXX	RAIL CENTERLINES AND TRACKS	P&C TO BE REMOVED	EXISTING TRAP POINT	EXISTING STATIONS	EXISTING/PROPOSED WALLS	GAS SERVICES	ESTIMATED OPW FLOODING AREAS	ESTIMATED OPW FLOODING AREAS	ESTIMATED OPW FLOODING AREAS
XX JCT	JUNCTIONS	BUFFER STOP	EXISTING BREATHING SWITCH	PROPOSED OVERBRIDGE	SLAB TRACK/SLAB TRACK TRANSITION	TELECOMMUNICATION SERVICES			



CHAINAGE	VS 1:100
29+000.000	3.812
29+005.000	3.812
29+010.000	3.812
29+015.000	3.812
29+020.000	3.812
29+025.000	3.812
29+030.000	3.812
29+035.000	3.812
29+040.000	3.812
29+045.000	3.812
29+050.000	3.812
29+055.000	3.812
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29+165.000	3.812
29+170.000	3.812
29+175.000	3.812
29+180.000	3.812
29+185.000	3.812
29+190.000	3.812
29+195.000	3.812
29+200.000	3.812

NOTES

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REV.	DATE	DESCRIPTION	SDR	MRI	CCH
01	April 2022	PLANNING ISSUE			

PRODUCED BY: [Name] REVIEWED BY: [Name]

Client: **2040**, **NTA**, **Irish Rail**

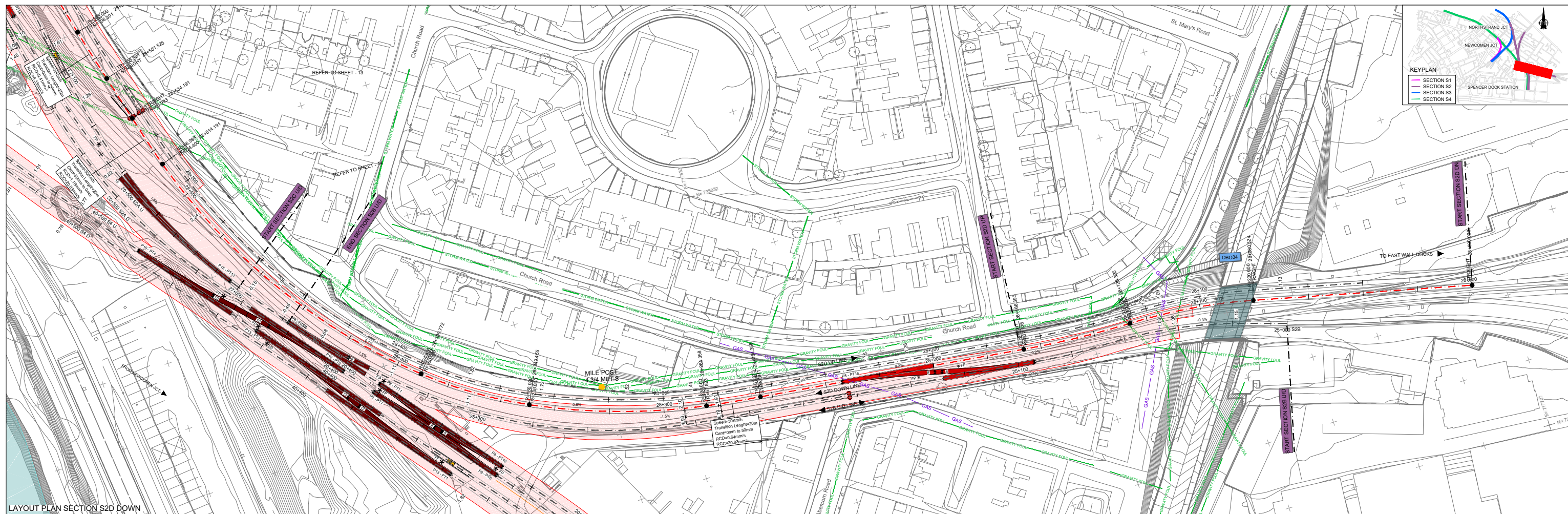
Consultant: **IDOM**, **JROD**

Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2D UP**

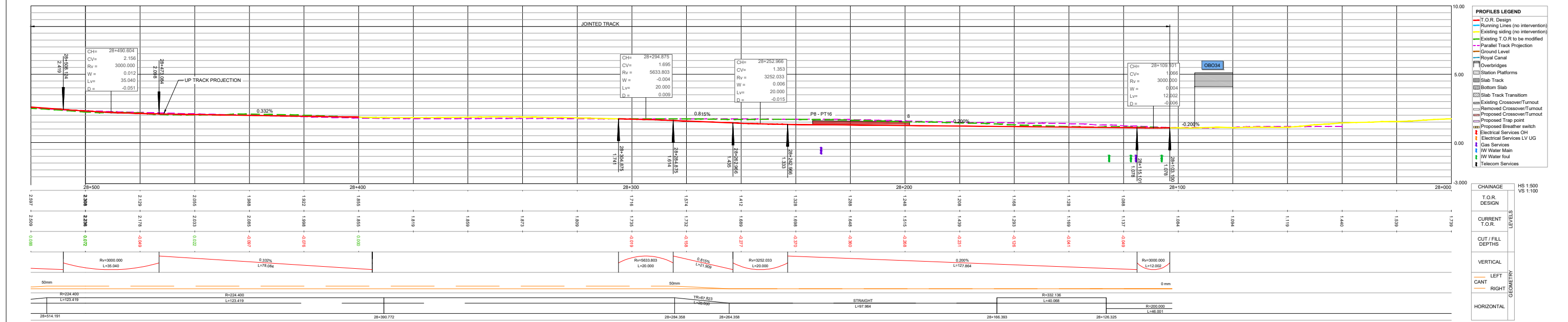
Scale: 1:1000 @ A1 1:2000 @ A3

Date: April 2022 Job No: P/101086 Status: F1-Approved & accepted Rev: V01 Sheet: 12 of 14



LAYOUT PLAN SECTION S2D DOWN

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 50X	MILES POST	---	EXISTING P&C	---	PROPOSED TRAP POINT	---	TRAP POINT TO BE REMOVED	OBX XX	EXISTING OVERBRIDGE	---	EXISTING FENCES	---	WATER MAIN/GRAVITY FOUL	---	TRACK LOWERING STRETCH
---	ACCUMULATIVE STATION POINTS	---	PROPOSED P&C	---	PROPOSED BREATHING SWITCH	---	BREATHING SWITCH TO BE REMOVED	UBX XX	OVERBRIDGE REBUILD/LIFTING	---	PROPOSED FENCES	---	ELECTRICAL SERVICES OH/UG	---	TRACK REALIGNMENT STRETCH
---	RAIL CENTERLINES AND TRACKS	---	P&C TO BE REMOVED	---	EXISTING TRAP POINT	---	FOULING POINT	---	OVERBRIDGE/CTO TO BE REMOVED	---	EXISTING/PROPOSED WALLS	---	GAS SERVICES	---	ESTIMATED OPW FLOODING AREAS
---	JUNCTIONS	---	BUFFER STOP	---	EXISTING BREATHING SWITCH	---	EXISTING TGA	---	PROPOSED OVERBRIDGE/CTO	---	SLAB TRACK/SLAB TRACK TRANSITION	---	TELECOMMUNICATION SERVICES	---	



LONGITUDINAL PROFILE SECTION S2D DOWN

NOTES

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V01	April 2022	PLANNING ISSUE			

PRODUCED BY: [] REVIEWED BY: [] APPROVED BY: []

Client: **2040** (The National Transport Authority)

Consultant: **IDOM**, **JROD**, **lamróid Éireann Irish Rail**

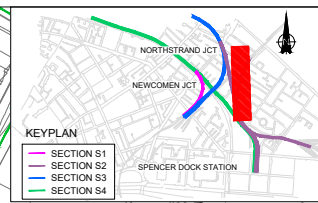
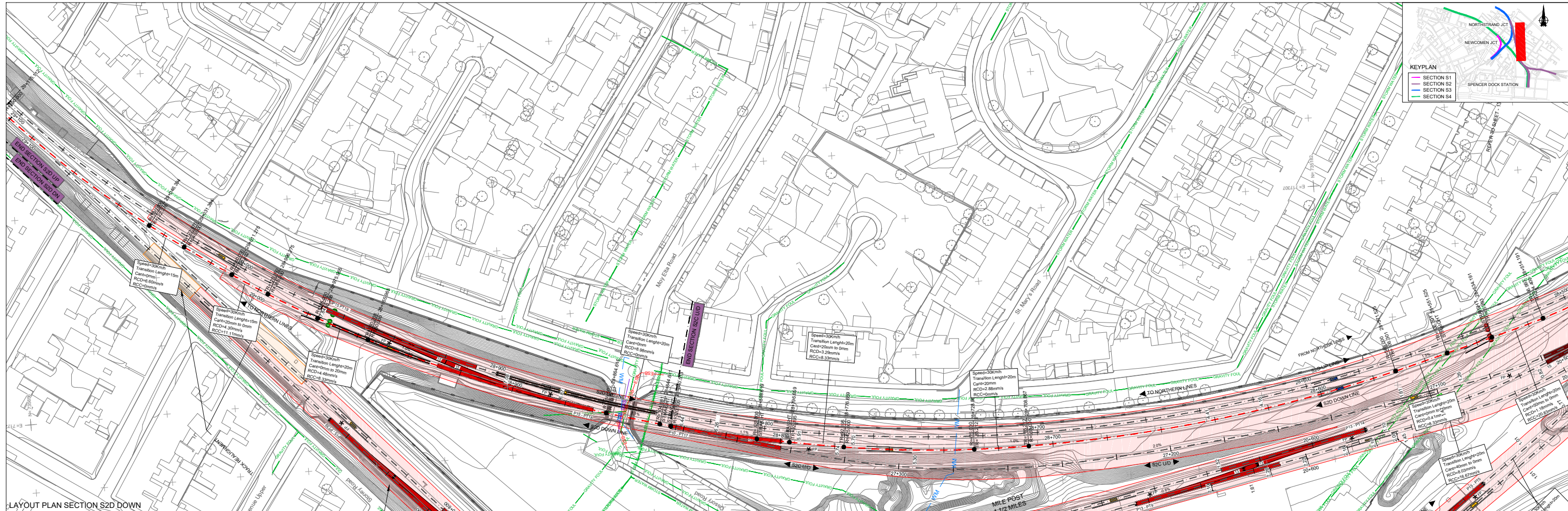
Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2D DOWN**

Scale: 1:1000 @ A1, 1:2000 @ A3

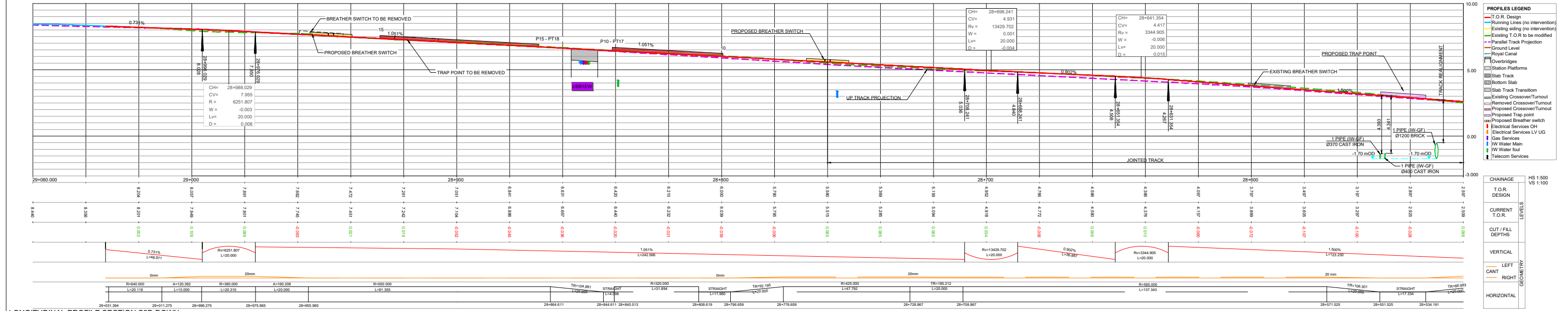
Drawing Number: **MAY MDC TRK SC00 DR C 0002 D**

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LAYOUT PLAN SECTION S2D DOWN

ALIGNMENT LEGEND		EXISTING P&C		PROPOSED P&C		STRUCTURES		WALLS AND FENCES		EXISTING UTILITIES		OTHER	
10+000 SXX	MILES POST	---	---	---	---	OBX XX	EXISTING OVERBRIDGE	---	---	---	---	---	---
---	ACCUMULATIVE STATION POINTS	---	---	---	---	UBX XX	OVERBRIDGE REBUILD/LIFTING	---	---	---	---	---	---
---	RAIL CENTERLINES AND TRACKS	---	---	---	---	---	---	---	---	---	---	---	---
XX JCT	JUNCTIONS	---	---	---	---	---	---	---	---	---	---	---	---
---	PROPOSED P&C	---	---	---	---	---	---	---	---	---	---	---	---
---	P&C TO BE REMOVED	---	---	---	---	---	---	---	---	---	---	---	---
---	PROPOSED TRAP POINT	---	---	---	---	---	---	---	---	---	---	---	---
---	PROPOSED BREATHING SWITCH	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING TRAP POINT	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING BREATHING SWITCH	---	---	---	---	---	---	---	---	---	---	---	---
---	FOULING POINT	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING TGA	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING UNDERBRIDGE	---	---	---	---	---	---	---	---	---	---	---	---
---	PROPOSED UNDERBRIDGE	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING STATIONS	---	---	---	---	---	---	---	---	---	---	---	---
---	EXISTING PROPOSED WALLS	---	---	---	---	---	---	---	---	---	---	---	---
---	SLAB TRACK/SLAB TRACK TRANSITION	---	---	---	---	---	---	---	---	---	---	---	---
---	WATER MAIN/GRAVITY FOUL	---	---	---	---	---	---	---	---	---	---	---	---
---	ELECTRICAL SERVICES OH/UG	---	---	---	---	---	---	---	---	---	---	---	---
---	GAS SERVICES	---	---	---	---	---	---	---	---	---	---	---	---
---	TELECOMMUNICATION SERVICES	---	---	---	---	---	---	---	---	---	---	---	---
---	TRACK LOWERING STRETCH	---	---	---	---	---	---	---	---	---	---	---	---
---	TRACK REALIGNMENT STRETCH	---	---	---	---	---	---	---	---	---	---	---	---
---	ESTIMATED OPW FLOODING AREAS	---	---	---	---	---	---	---	---	---	---	---	---



LONGITUDINAL PROFILE SECTION S2D DOWN

PROFILES LEGEND	
---	T.O.R. Design
---	Planning Lines (no intervention)
---	Existing siding (no intervention)
---	Existing T.O.R. to be modified
---	Parallel Track Projection
---	Ground Level
---	Royal Canal
---	Overbridges
---	Station Platforms
---	Slab Track
---	Bottom Slab
---	Slab Track Transition
---	Existing Crossover/Turnout
---	Proposed Crossover/Turnout
---	Proposed Crossover/Turnout
---	Proposed Trap point
---	Proposed Breathing switch
---	Electrical Services LV UG
---	Gas Services
---	IW Water Main
---	IW Water foul
---	Telecom Services

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Consultant: **IDOM**, **JROD**

Project: **lamróid Éireann Irish Rail**

Project: **DART+ West**

Drawing Title: **PERMANENT WAY DESIGN SPENCER DOCK, ALIGNMENT AND PROFILES SPENCER DOCK STATION - SECTION S2D DOWN**

Scale: 1:1000 @ A1 1:2000 @ A3

Drawing Number: **1** | Project | Originator | Discipline | Location | Type | Role | Number | Phase

Date: April 2022 | Job No: P101086 | Status: F1-Approved & accepted | Rev: V01 | Sheet: 14 of 14