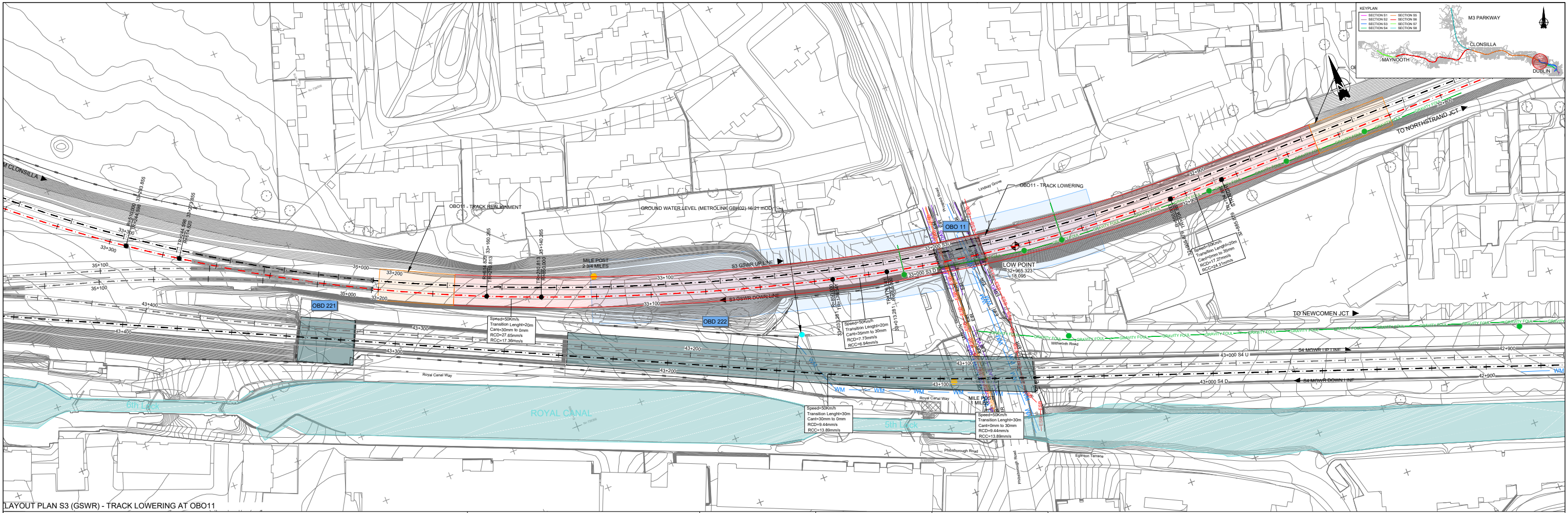
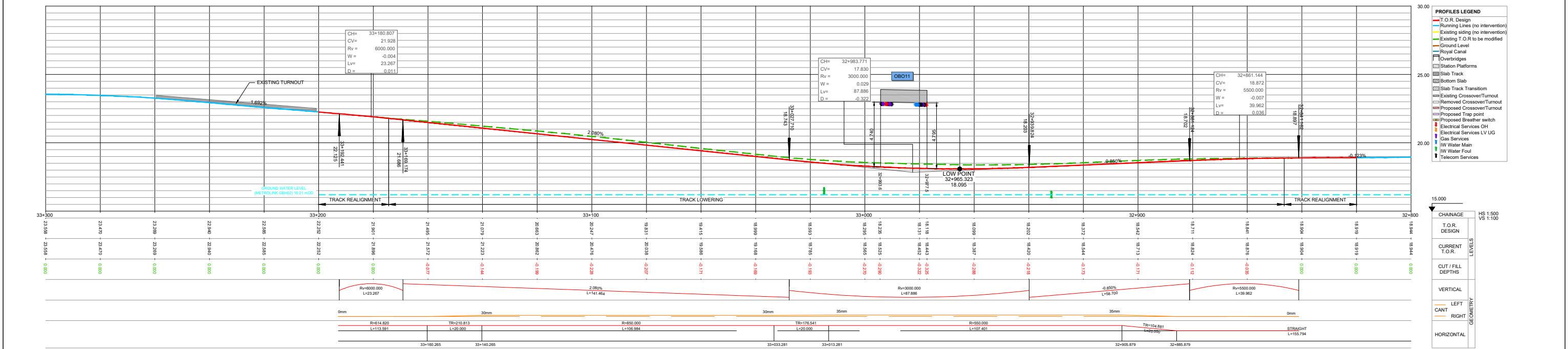




LAYOUT PLAN S3 (GSRW) - TRACK LOWERING AT OBO11

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



LONGITUDINAL PROFILE S3 (GSRW) - TRACK LOWERING AT OBO11

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.

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

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Client

Consultant

Project

Drawing Title

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

Scale: 0 2.5 6.25 12.5 25

DATE: April 2022

JOB NO: P/101086

STATUS: F1-Approved & accepted

REV: V01

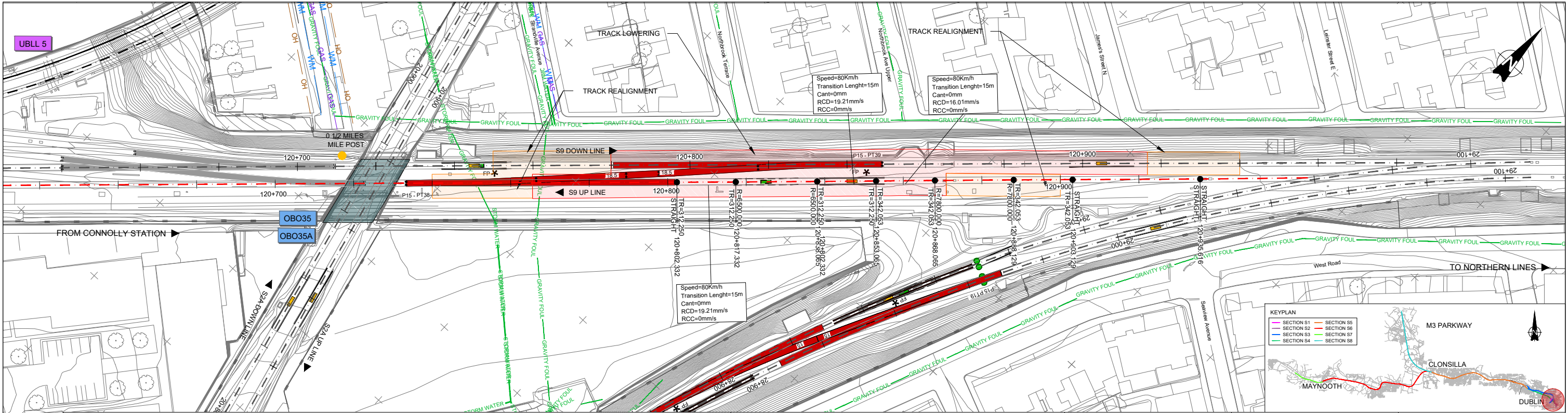
SHEET: 01 of 01

PERMANENT WAY DESIGN
SPENCER DOCK TO GLASNEVIN JUNCTION (GSRW)
OBO11 TRACK LOWERING

Drawing Number: MAY MDC TRK SC03 DR C 0002 D

Project: DART+ West

Client: IDOM, NTA, lamród Éireann Irish Rail, JROD

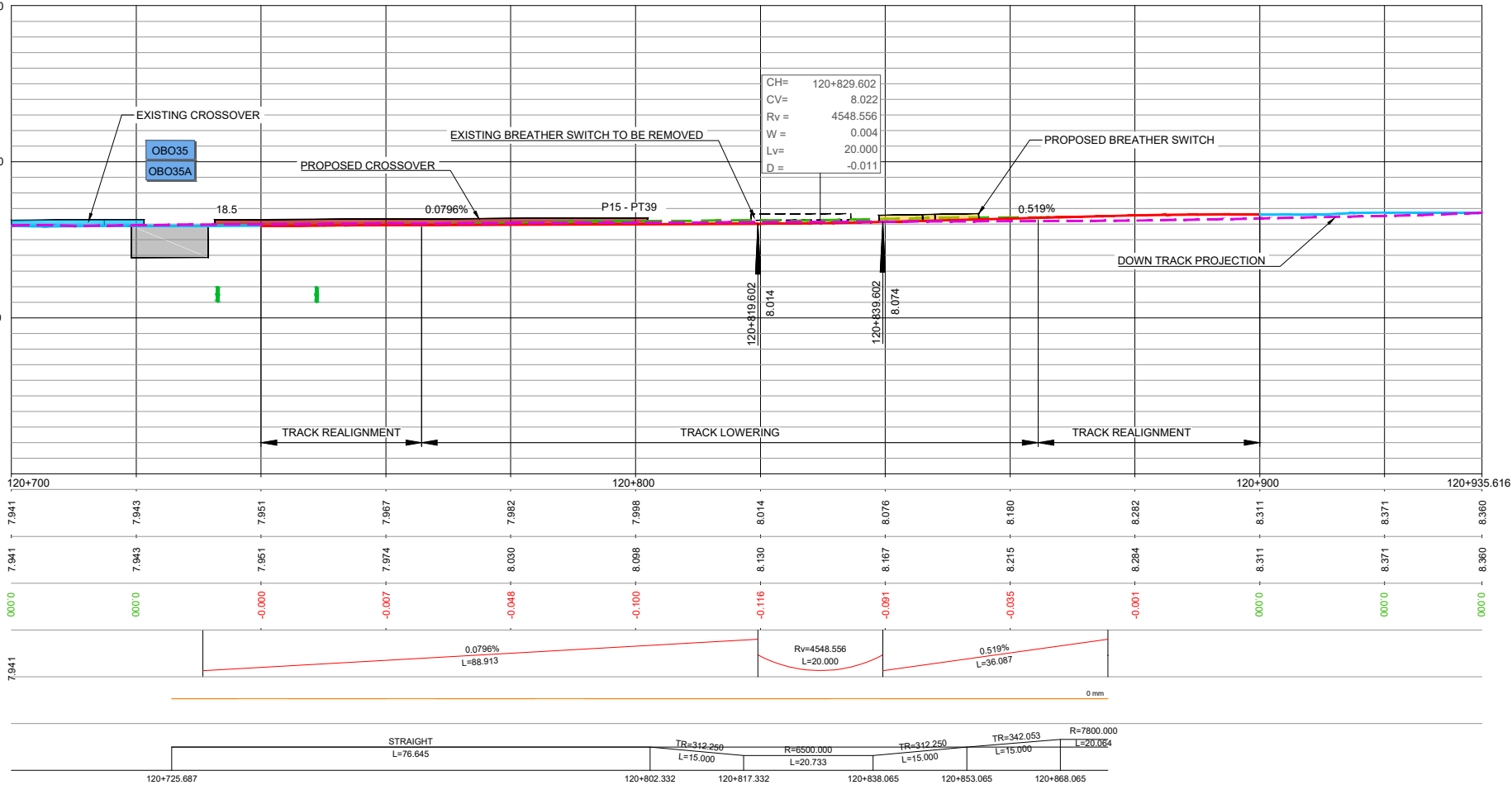


ALIGNMENT LEGEND								STRUCTURES				WALLS AND FENCES		EXISTING UTILITIES		OTHER	
	MILES POST		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		EXISTING OVERBRIDGE		EXISTING UNDERBRIDGE		EXISTING FENCES		WATER MAIN/GRAVITY FOUL		TRACK LOWERING STRETCH
	ACCUMULATIVE STATION POINTS		PROPOSED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

LAYOUT PLAN S9 - NEW CROSSOVER - UP TRACK

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

CHAINAGE	
HS 1:500	VS 1:100
LEVELS	
T.O.R. DESIGN	
CURRENT T.O.R.	
GEOMETRY	
CUT / FILL DEPTHS	
VERTICAL	
LEFT	
CANT	
RIGHT	
HORIZONTAL	

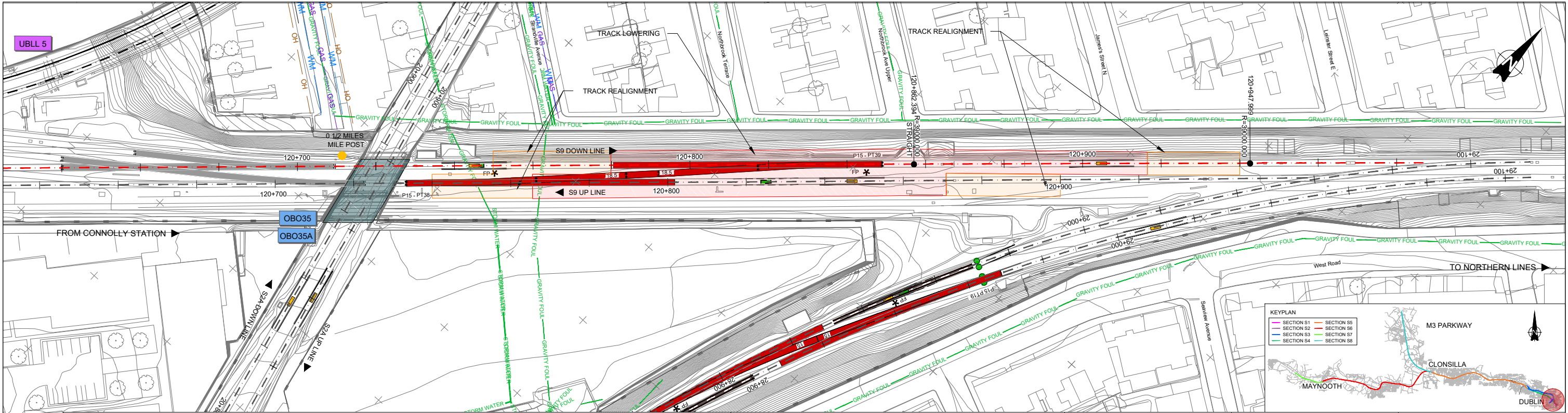


NOTES

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.

LONGITUDINAL PROFILE S9 - NEW CROSSOVER. UP TRACK

Client			Project			Drawing Title		
Consultant			Drawing Number			PERMANENT WAY DESIGN CONNOLLY. ALIGNMENT AND PROFILES CONNOLLY P15-18.5 NEW CROSSOVER - UP TRACK		
V01	April 2022	PLANNING ISSUE	SDR	MRI	CCH	Scale:	Project	Discipline
REV.	DATE	DESCRIPTION	PRODUCED BY	REVIEWED BY	APPROVED BY	1:500 @ A1-XL 1:1000 @ A3	MAY	TRK
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Survey No. 0039720 (OSI Aerial Data or OSI Lidar Data) & Survey No. 2020050_NMA_100 (OSI Vector Data).			DART+ West			April 2022	P/101086	F1-Approved & accepted
All elevations are in metres and relate to OSi Geoid Model (OSG0402). Main Head as defined by existing Project Control.			Rev:			V01		
All Coordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).			Sheet: 01 of 02					



ALIGNMENT LEGEND

	MILES POST		EXISTING P&C		PROPOSED TRAP POINT		TRAP POINT TO BE REMOVED		STRUCTURES		EXISTING UNDERBRIDGE		WALLS AND FENCES		EXISTING UTILITIES		OTHER
	10+200 10+000 SXX		PROPOSED P&C		PROPOSED BREATHING SWITCH		BREATHING SWITCH TO BE REMOVED		OBX XX		PROPOSED UNDERBRIDGE						TRACK LOWERING STRETCH
	RAIL CENTERLINES AND TRACKS		P&C TO BE REMOVED		EXISTING TRAP POINT		FOULING POINT		OBX XX		EXISTING STATIONS						TRACK REALIGNMENT STRETCH
	XX JCT		BUFFER STOP		EXISTING BREATHING SWITCH		EXISTING TGA		OBX XX								ESTIMATED OPW FLOODING AREAS

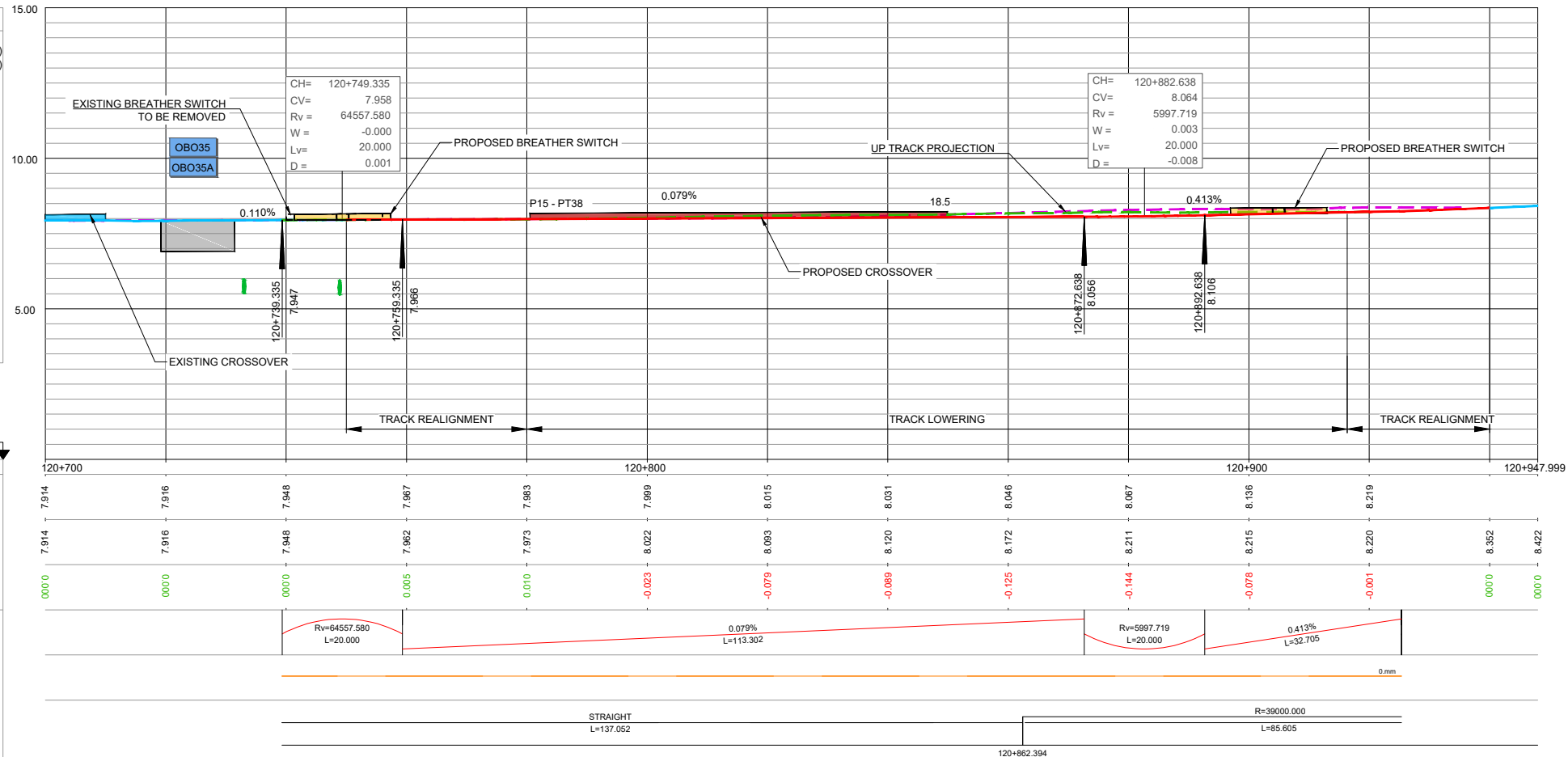
LAYOUT PLAN S9 - NEW CROSSOVER - DOWN TRACK

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

HS 1:500
VS 1:100

CHAINAGE	LEVELS	GEOMETRY
T.O.R. DESIGN		
CURRENT T.O.R.		
CUT / FILL DEPTHS		
VERTICAL		
CANT		
RIGHT		
HORIZONTAL		

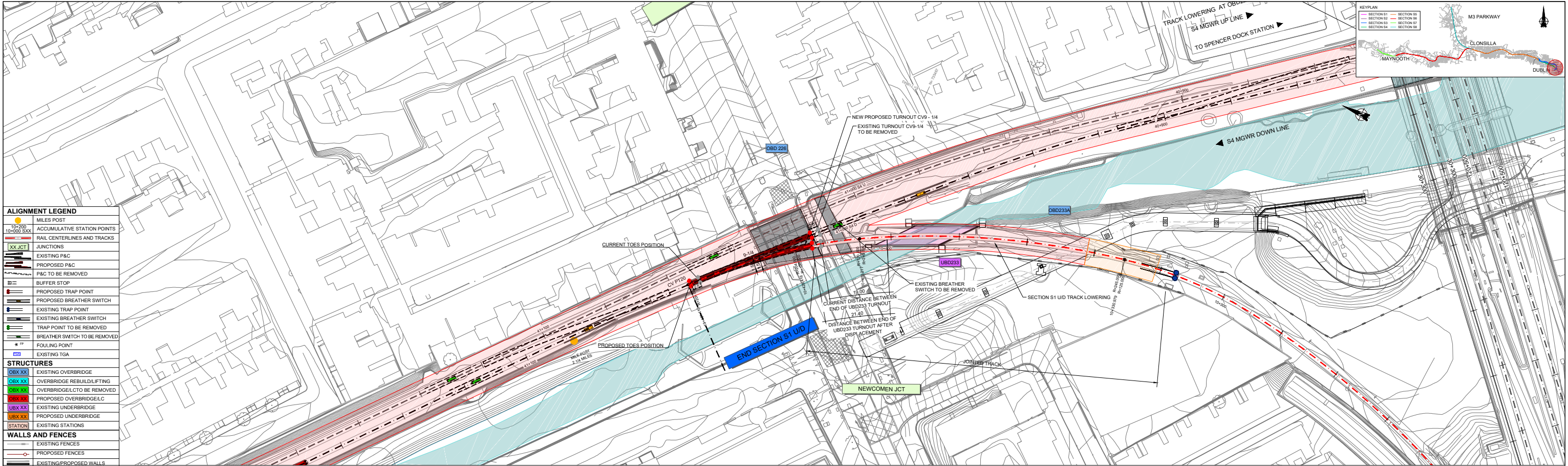


NOTES

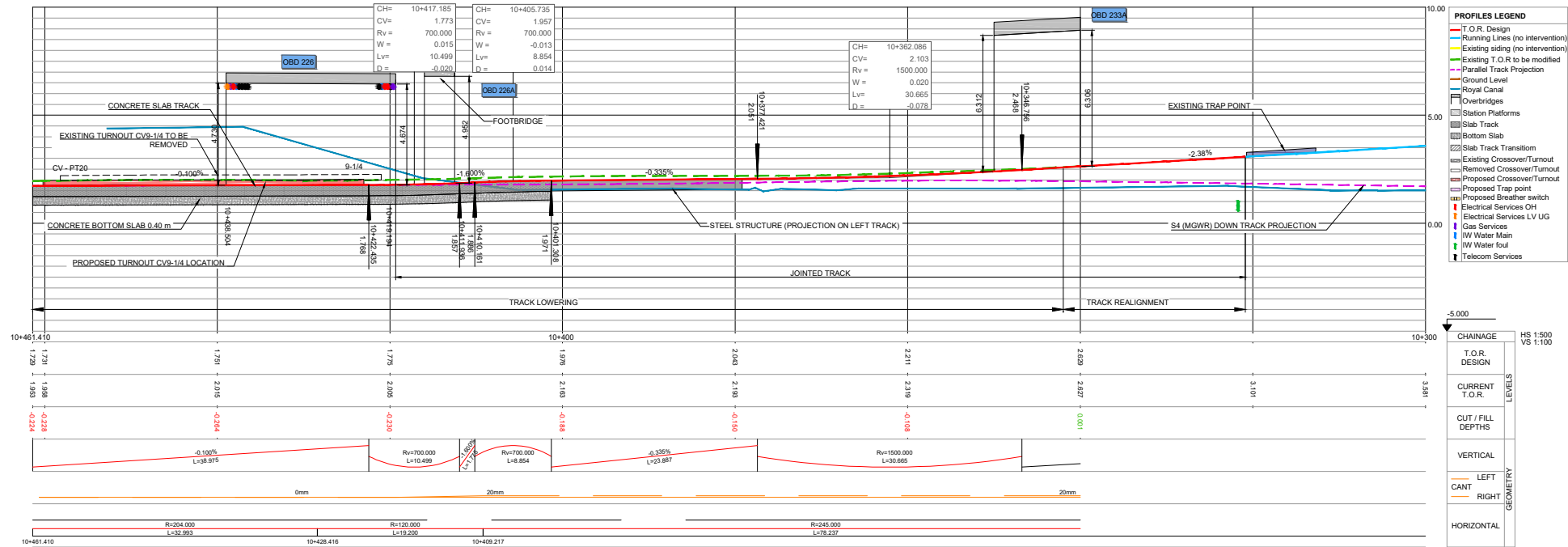
2. A VERIFICATION OF THE DEPTH OF THE EXISTING SERVICES CROSSING THE LINE AND THE RELATED PROTECTION/DIVERSION ACTIONS IS PENDING. SERVICES IN THE LONG SECTION ARE SHOWN INDICATIVELY WITH REASONABLE ACCURACY IN THEIR HORIZONTAL LOCATION. THE VERTICAL DEPTH IS INDICATIVE AND ONLY CLEARLY SPECIFIED WHEN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

LONGITUDINAL PROFILE S9 - NEW CROSSOVER. DOWN TRACK

Client			Project			Drawing Title		
Consultant			DART+ West			PERMANENT WAY DESIGN CONNOLLY. ALIGNMENT AND PROFILES CONNOLLY P15-18.5 NEW CROSSOVER - DOWN TRACK		
IDOM			G3			Drawing Number Project Originator Discipline Location Type Role Number Phase MAY MDC TRK SC09 DR C 0002 D		
V01 April 2022 PLANNING ISSUE			Scale: 1:500 @ A1-XL 1:1000 @ A3			Date: April 2022		
REV. DATE DESCRIPTION			0 2.5 6.25 12.5 25			Job No: P/101086		
SDR MRI CCH						Status: F1-Approved & accepted		
PRODUCED BY REVIEWED BY APPROVED BY						Rev: V01		
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Survey No: 0039720 (OSI Aerial Data or OSI Lidar Data) & Survey No: 2020/OSI_NMA_186 (OSI Vector Data).								
All elevations are in metres and relate to OSi Geoid Model (OSG04M02). Main Head as defined by existing Project Control.								
All Coordinates are in Irish Transverse Mercator Grid (ITM) as defined by OSi active GPS station Tallaght College (TLLG).								



LAYOUT PLAN - S1 (NEWCOMEN CHORD) TRACK LOWERING



LONGITUDINAL PROFILES - S1 (NEWCOMEN CHORD) TRACK LOWERING

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.

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V01	April 2022	PLANNING ISSUE			

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All coordinates are in Irish Transverse Mercator Grid (RTM) as defined by Ordnance Survey (OS) datum (1948) (OS datum).

Client

Consultant

2040

NTA

Irish Rail

idom

JROD

Project

DART+ West

Drawing Title

PERMANENT WAY DESIGN
NEWCOMEN CHORD ALIGNMENT AND PROFILES
UBD233 - NEWCOMEN CHORD TRACK LOWERING

Scale: 1:250 @ A1-XL 1:500 @ A3

0 3.125 6.25 12.5

Date: April 2022

Job No: P/101086

Status: F1-Approved & accepted

Rev: V01

Sheet: 01 of 01

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

MAY MDC TRK SC01 DR C 0002 D