



MetroWest+

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.7 Disused railway engineering plans / GRIP 4 Minor Civils – Part 1 of 2

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)
Planning Act 2008

Author: Arup

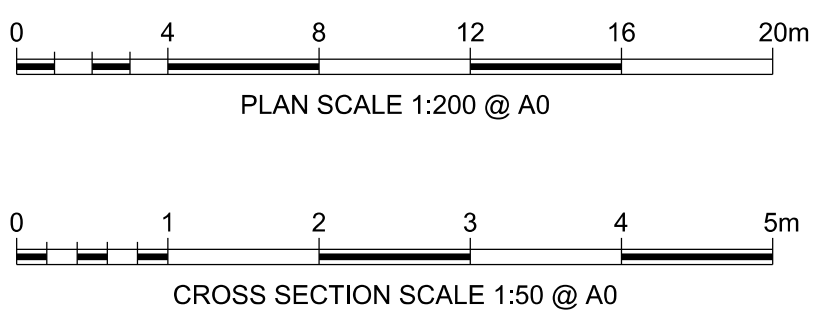
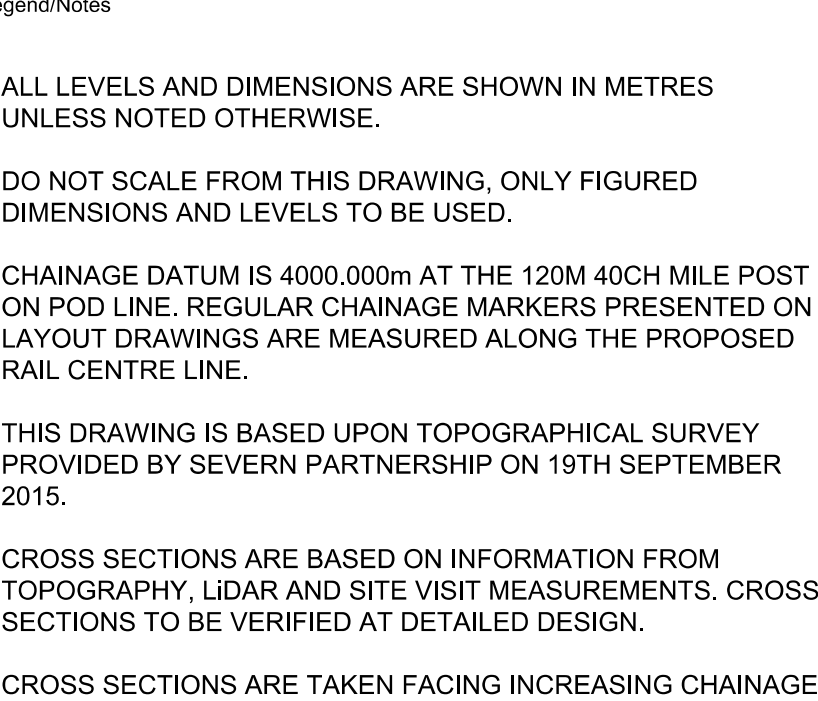
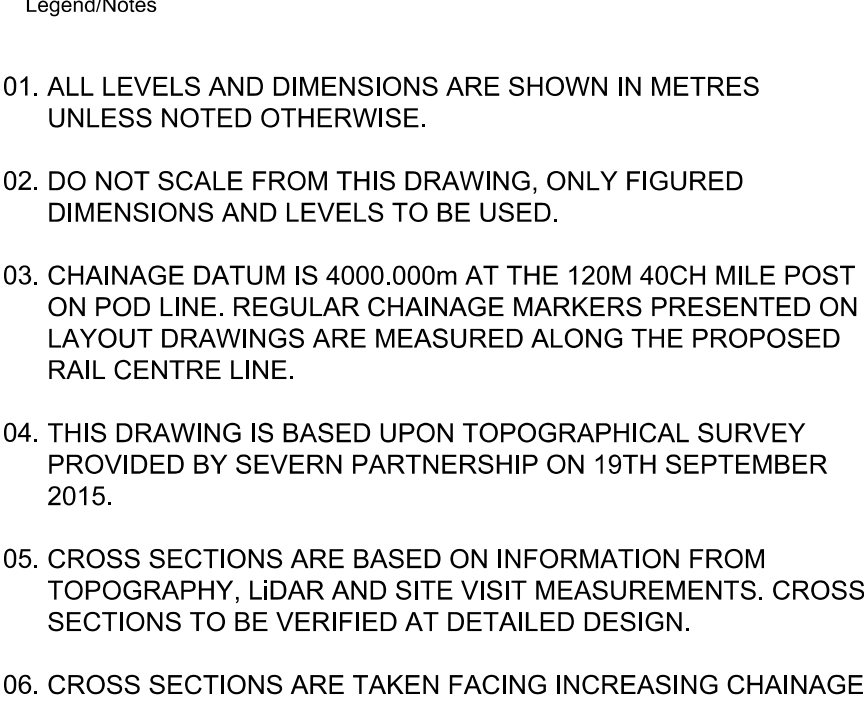
Revision: Version 2

Date: September 2020



Document Index

Version	Date	Status of version	Document Index	Document Revision	Changes
1	19 November 2019	Application	2.7 Disused railway engineering plans / GRIP 4 Minor Civils – Sheet 1 to 15: W1097B-ARP-DRG-ECV-000301 Rev A03 W1097B-ARP-DRG-ECV-000302 Rev A03 W1097B-ARP-DRG-ECV-000303 Rev A03 W1097B-ARP-DRG-ECV-000304 Rev A03 W1097B-ARP-DRG-ECV-000305 Rev A03 W1097B-ARP-DRG-ECV-000306 Rev A03 W1097B-ARP-DRG-ECV-000307 Rev A03 W1097B-ARP-DRG-ECV-000308 Rev A03 W1097B-ARP-DRG-ECV-000309 Rev A03 W1097B-ARP-DRG-ECV-000310 Rev A03 W1097B-ARP-DRG-ECV-000311 Rev A03 W1097B-ARP-DRG-ECV-000312 Rev A03 W1097B-ARP-DRG-ECV-000313 Rev A03 W1097B-ARP-DRG-ECV-000314 Rev A03 W1097B-ARP-DRG-ECV-000315 Rev A03	-	-
2	21 September 2020	Pre-Preliminary Meeting amendments	2.7 Disused railway engineering plans / GRIP 4 Minor Civils – Sheet 1 to 15: W1097B-ARP-DRG-ECV-000301 Rev A03 W1097B-ARP-DRG-ECV-000302 Rev A03 W1097B-ARP-DRG-ECV-000303 Rev A03 W1097B-ARP-DRG-ECV-000304 Rev A03 W1097B-ARP-DRG-ECV-000305 Rev A03 W1097B-ARP-DRG-ECV-000306 Rev A03 W1097B-ARP-DRG-ECV-000307 Rev A03 W1097B-ARP-DRG-ECV-000308 Rev A03 W1097B-ARP-DRG-ECV-000309 Rev A03 W1097B-ARP-DRG-ECV-000310 Rev A03 W1097B-ARP-DRG-ECV-000311 Rev A03 W1097B-ARP-DRG-ECV-000312 Rev A03 W1097B-ARP-DRG-ECV-000313 Rev A03 W1097B-ARP-DRG-ECV-000314 Rev A03 W1097B-ARP-DRG-ECV-000315 Rev A03	N/A N/A A04 N/A A04 A04 A04 N/A N/A A04 N/A A04 A04 A04 N/A	- Text change as works now allow Network Rail to inspect the Pill station arches Label inserted to retain earth bank Label inserted to highlight important hedgerow Label inserted to highlight archaeological site Text deleted - ACO climate tunnels no longer required Text deleted - ACO climate tunnels no longer required; DLL reference added; 'potential' added to water voles label Symbol deleted as no bird boxes present; and 'potential' added to water voles label 'Potential' added to water voles label



A01	15/03/19	ISSUE FOR INFORMATION	JB	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS
Rev	Date	Description of Revisions	Drawn	Chkd
Status		FIT FOR INFORMATION		

Status	FIT FOR INFORMATION	Subst	S
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Contractor(s)

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Project	METROWEST PHASE 1
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Drawing Title

DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.12630m TO CH.12830m

Designed	J. BACINSKI	Signed	Date 24/0
Drawn	J. BACINSKI	Signed	Date 24/0
Checked	R. SNELL	Signed	Date 24/0
Approved	R. SNELL	Signed	Date 24/0
Scale(s)	ELR & Mileage		

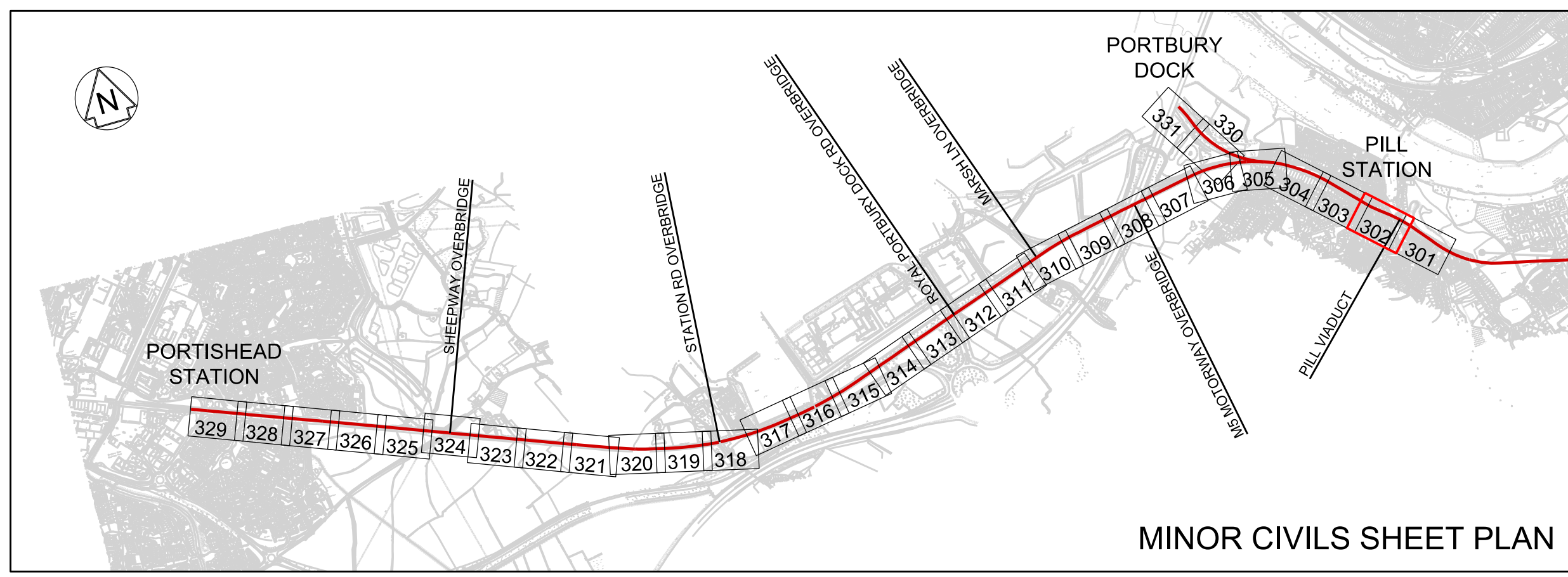
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Alternative Reference	Sheet

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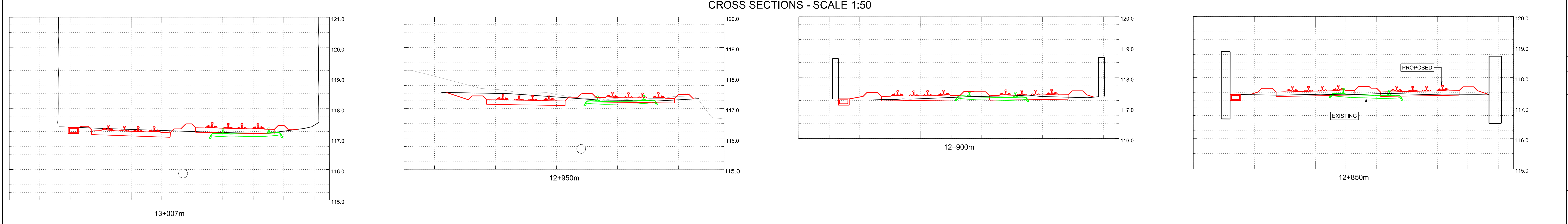
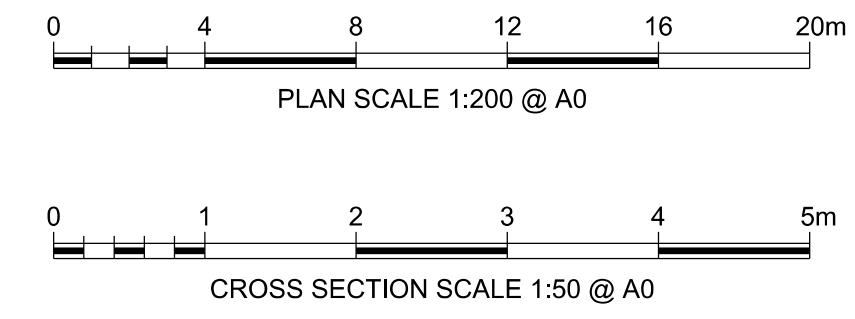
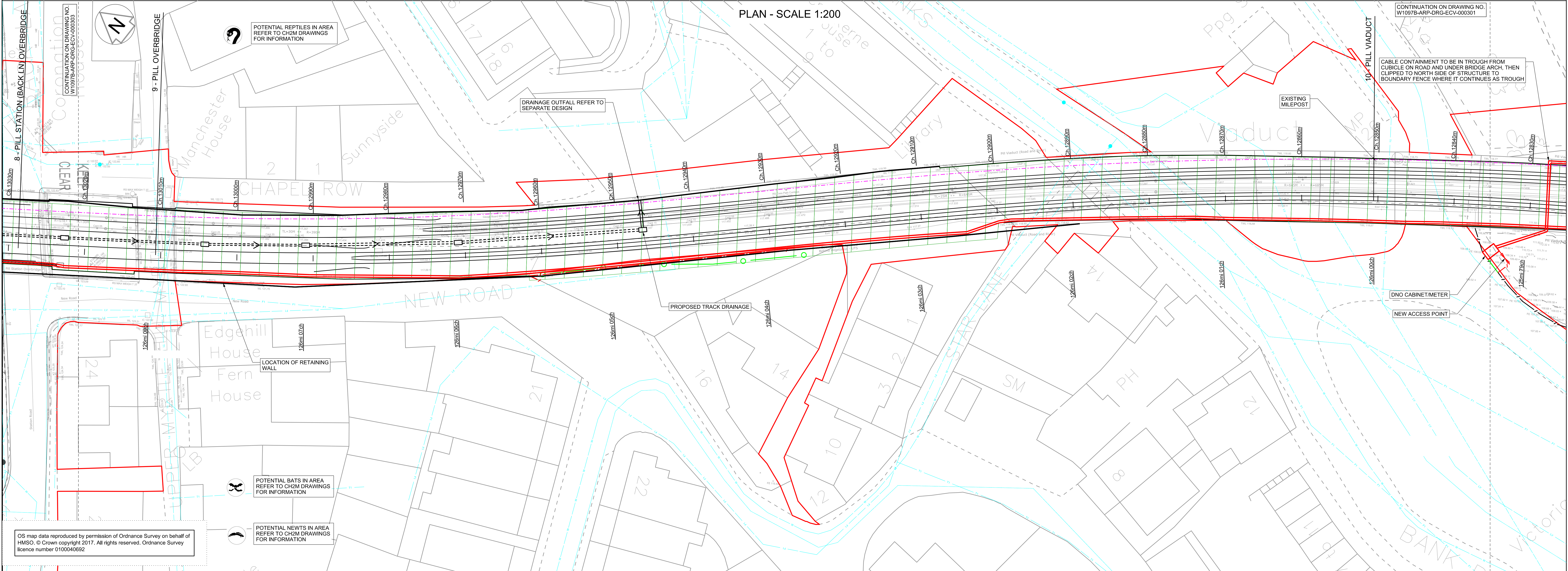
Drawing Number	Revision
M/1097B-ABP-DRG-ECV-000301	A03

WV1057 B-ART - DRUG-LOV-000501	A05
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LEGEND					
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I		WATER MAIN	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURIED FIBRE CABLE	WATER VOLES	
EXISTING FENCE GRADE II		FOUL SEWER	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	BATS	
EXISTING FENCE GRADE III		RIISING MAIN	TELEPHONE (PROPOSED)	DORMICE	
EXISTING FENCE REMOVED		SEWER SURFACE	BOX ON POST (PROPOSED)	OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		HIGH VOLTAGE ELECTRICITY - BELOW GROUND	FIBRE JOINT (PROPOSED)	REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		LOW VOLTAGE ELECTRICITY - BELOW GROUND	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA CS-LOCATED	GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CS-LOCATED	BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		LOW VOLTAGE ELECTRICITY - ABOVE GROUND	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CS-LOCATED	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II		GPSS PIPELINE		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LOW PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUING		MEDIUM PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUING		HIGH PRESSURE GAS MAIN			
REMOVED TROUING		BT CABLE - BELOW GROUND			
EXISTING TROUING MODIFIED/REPLACED		BT CABLE ABOVE GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)		CABLE & WIRELESS			
EXISTING UNDER TRACK CROSSING (UTX)		VIRGIN MEDIA CABLE - BELOW GROUND			
REMOVED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND			
		EXISTING DITCHES TO BE RETAINED/REPLACED			



- Legend/Notes
01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
 02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
 03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
 04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
 05. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
 06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.

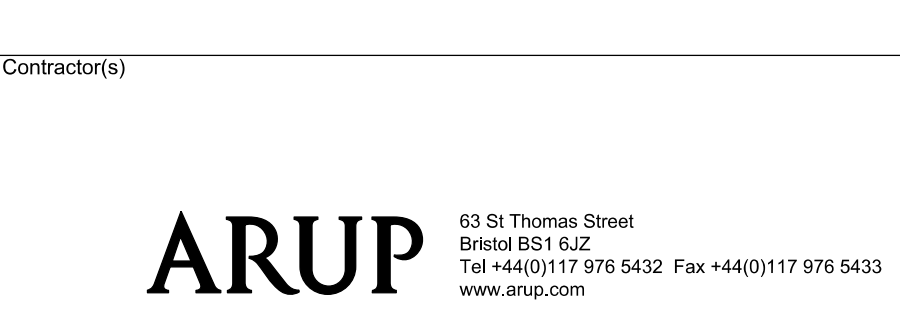


LEGEND			
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND
EXISTING FENCE GRADE I	PROPOSED CABINET LOCATION (NOT TO SCALE)	WATER MAIN	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE
EXISTING FENCE GRADE II	PROPOSED SIGNAL (NOT TO SCALE)	FOUL SEWER	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE
EXISTING FENCE GRADE III	EXISTING CABINET TO BE REMOVED/RELOCATED	RISING MAIN	TELEPHONE (PROPOSED)
EXISTING FENCE REMOVED	EXISTING SIGNAL TO BE REMOVED	SEWER SURFACE	BOX ON POST (PROPOSED)
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	EXISTING CABINET LOCATION	HIGH VOLTAGE ELECTRICITY - BELOW GROUND	FIBRE JOINT (PROPOSED)
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	MINOR EARTHWORKS RETAINING STRUCTURE	LOW VOLTAGE ELECTRICITY - BELOW GROUND	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	EARTHWORKS STRUCTURE	HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED
PROPOSED FENCE GRADE I	NOISE BARRIER	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED
PROPOSED FENCE GRADE II	DEVELOPMENT CONSENT ORDER (DCO)	GPSS PIPELINE	
PROPOSED FENCE GRADE III	LAND BOUNDARY	LOW PRESSURE GAS MAIN	
PROPOSED TROUING	CONTINUOUS POSITION OF SAFETY	MEDIUM PRESSURE GAS MAIN	
EXISTING TROUING	AUTHORISED WALKING ROUTE	BT CABLE - BELOW GROUND	
EXISTING TROUING MODIFIED/REPLACED	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	BT CABLE ABOVE GROUND	
PROPOSED UNDER TRACK CROSSING (UTX)	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	CABLE & WIRELESS	
EXISTING UNDER TRACK CROSSING (UTX)		VIRGIN MEDIA CABLE - BELOW GROUND	
REMOVED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND	
		EXISTING DITCHES TO BE RETAINED/REPLACED	

SPECIES, ECOLOGY, LANDSCAPE	
WATER VOLES	
BATS	
DORMICE	
OTTERS	
REPTILES	
GREAT CRESTED NEWT	
BIRD BOX (PROPOSED)	
AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
WOODLAND TO BE PLANTED DURING CONSTRUCTION	
GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	

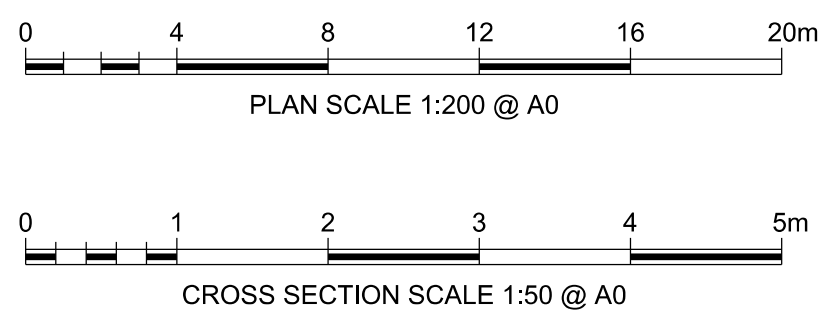
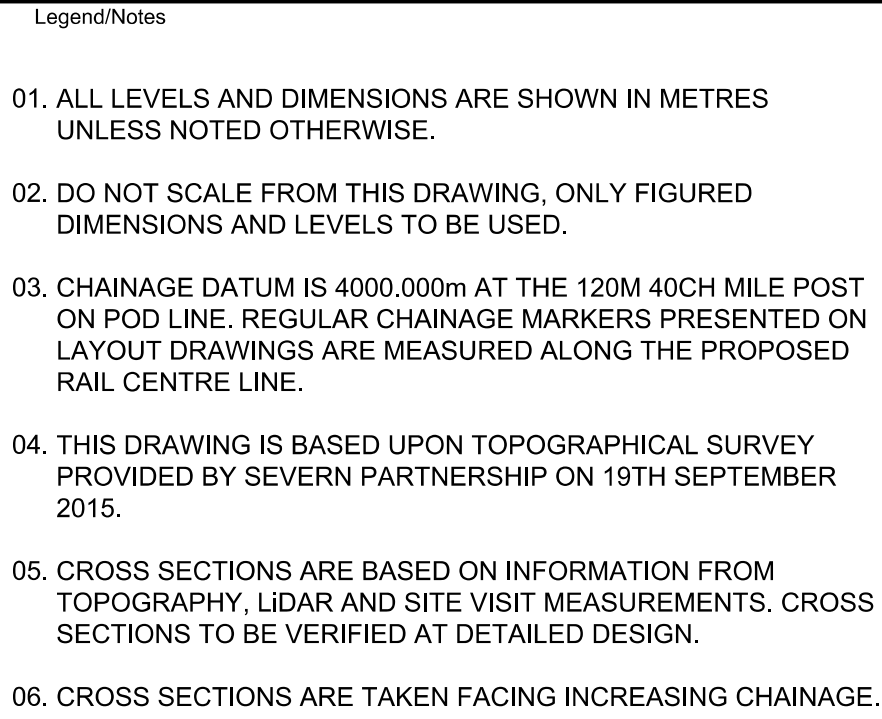
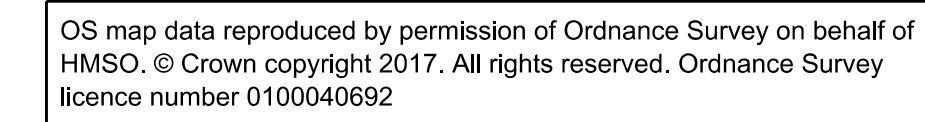
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A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr.

Status
FIT FOR INFORMATION
S2



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Project		METROWEST PHASE 1	
Drawing Title		DISUSED RAILWAY ENGINEERING PLANS	
		GRIP 4 MINOR CIVILS	
		CH.12830m TO CH.13030m	
Designed	J. BACINSKI	Signed	Date 24/07/19
Drawn	J. BACINSKI	Signed	Date 24/07/19
Checked	R. SNELL	Signed	Date 24/07/19
Approved	R. SNELL	Signed	Date 24/07/19
Scale(s)	1:200	ELR & Mileage	POD 125M 79CH
Alternative Reference		Sheet	2 of 31
Drawing Number	W1097B-ARP-DRG-ECV-000302	Revision	



Status	FIT FOR INFORMATION	Suitab	S2
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FIT FOR INFORMATION

S2



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Project

METROWEST PHASE 1

Drawing Title

Drawing Title
DISUSED RAILWAY ENGINEERING
PLANS
GRIP 4 MINOR CIVILS
CH.13030m TO CH.13220m

Scale(s)	ELR & Mileage
1:200	POD 126M 09CH

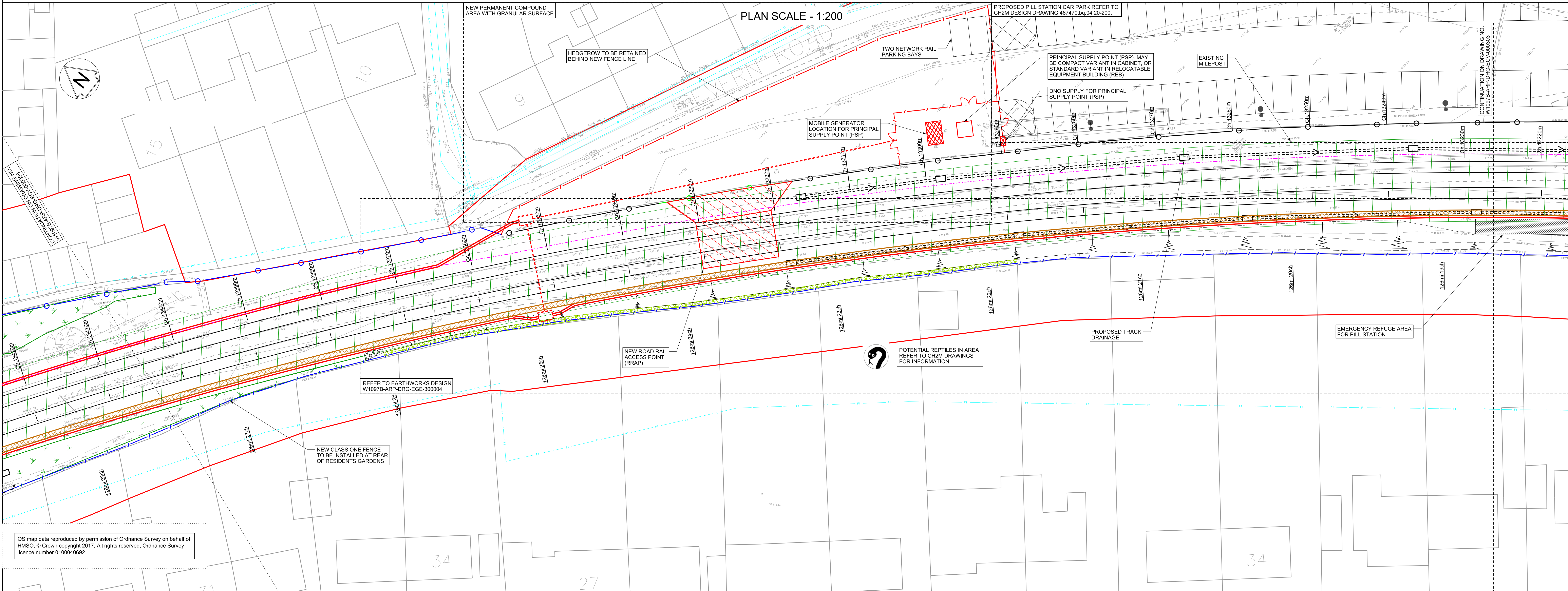
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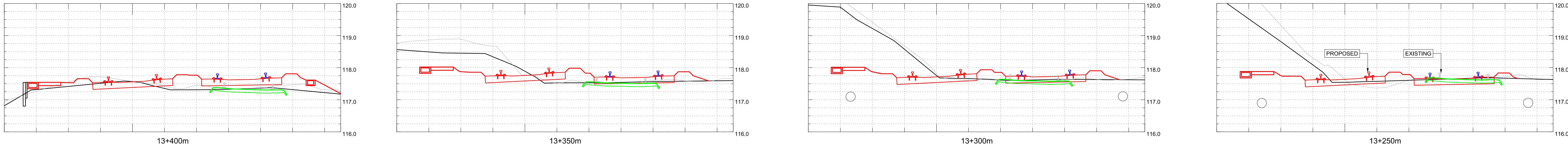
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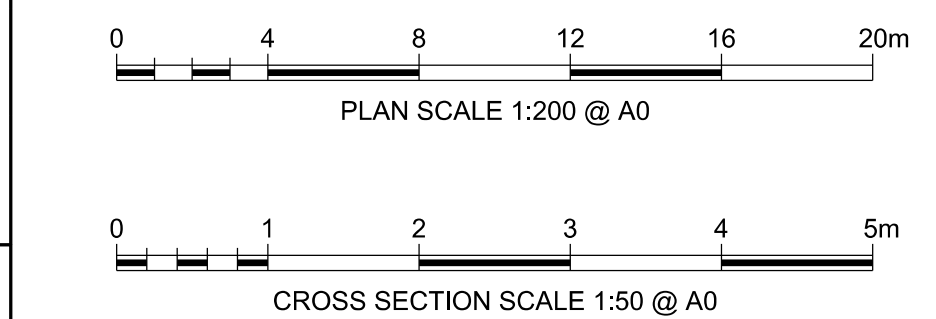
LEGEND									
MINOR CIVILS				EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I		PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURIED FIBRE CABLE		WATER VOLES	
EXISTING FENCE GRADE II		PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		NOTE: EQUIPMENT SITE NOT SHOWN TO SCALE		BATS	
EXISTING FENCE GRADE III		EXISTING CABINET TO BE REMOVED/RELOCATED		RISING MAIN		TELEPHONE (PROPOSED)		DORMICE	
EXISTING FENCE REMOVED		EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		BOX ON POST (PROPOSED)		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		EXISTING CABINET LOCATION		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		FIBRE JOINT (PROPOSED)		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) WATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		EARTHWORKS STRUCTURE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND		PROPOSED FIXED TELECOMMUNICATION NETWORK (FTTH) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		NOISE BARRIER		GPS PIPELINE		EXISTING FIXED TELECOMMUNICATION NETWORK (FTTH) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II		DEVELOPMENT CONSENT ORDER (DCO)		LOW PRESSURE GAS MAIN				WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LAND BOUNDARY		MEDIUM PRESSURE GAS MAIN				GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUGHING		CONTINUOUS POSITION OF SAFETY		HIGH PRESSURE GAS MAIN				HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUGHING		AUTHORISED WALKING ROUTE		BT CABLE - BELOW GROUND					
REMOVED TROUGHING		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE ABOVE GROUND					
EXISTING TROUGHING MODIFIED/REPLACED		EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		CABLE & WIRELESS					
PROPOSED UNDER TRACK CROSSING (UTX)		VEGETATION WITHIN NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		VIRGIN MEDIA CABLE - BELOW GROUND					
EXISTING UNDER TRACK CROSSING (UTX)				VERIZON BACKBONE DUCT - BELOW GROUND					
REMOVED UNDER TRACK CROSSING (UTX)				EXISTING DITCHES TO BE RETAINED/REPLACED					



CROSS SECTIONS - SCALE 1:50



- Legend/Notes
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A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr.

Status: **FIT FOR INFORMATION** Subality: **S2**



Contractor(s):



Project: **METROWEST PHASE 1**

Drawing Title: **DISUSED RAILWAY ENGINEERING PLANS**
GRIP 4 MINOR CIVILS
CH.13220m TO CH.13420m

Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

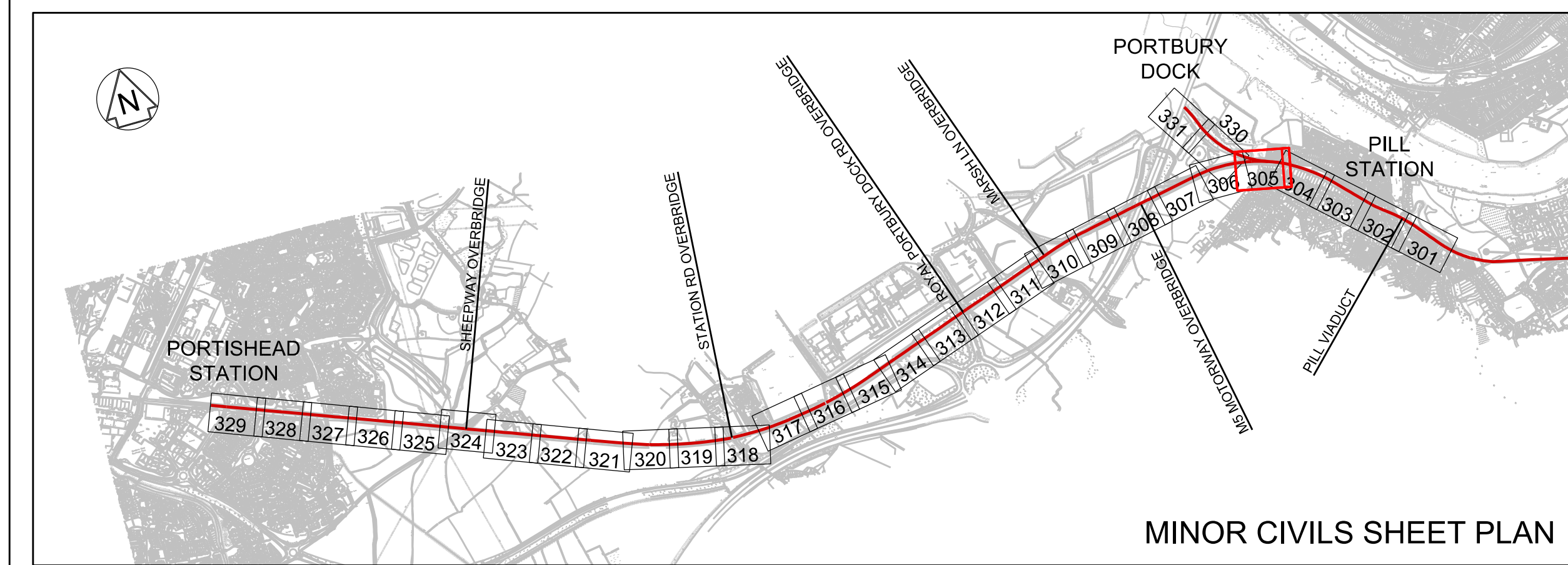
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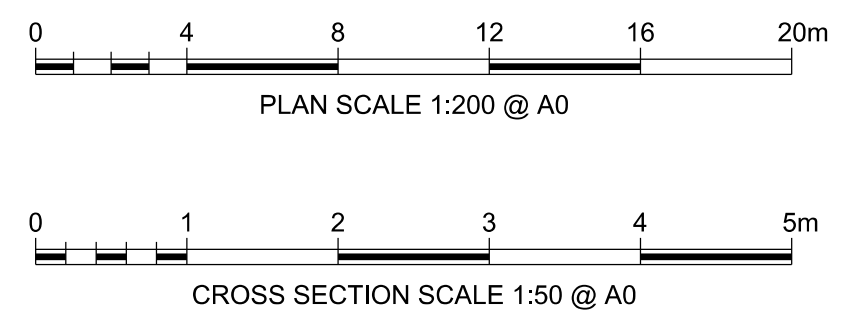
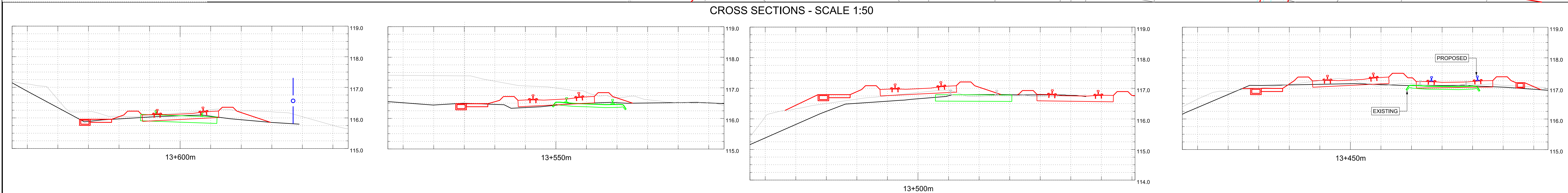
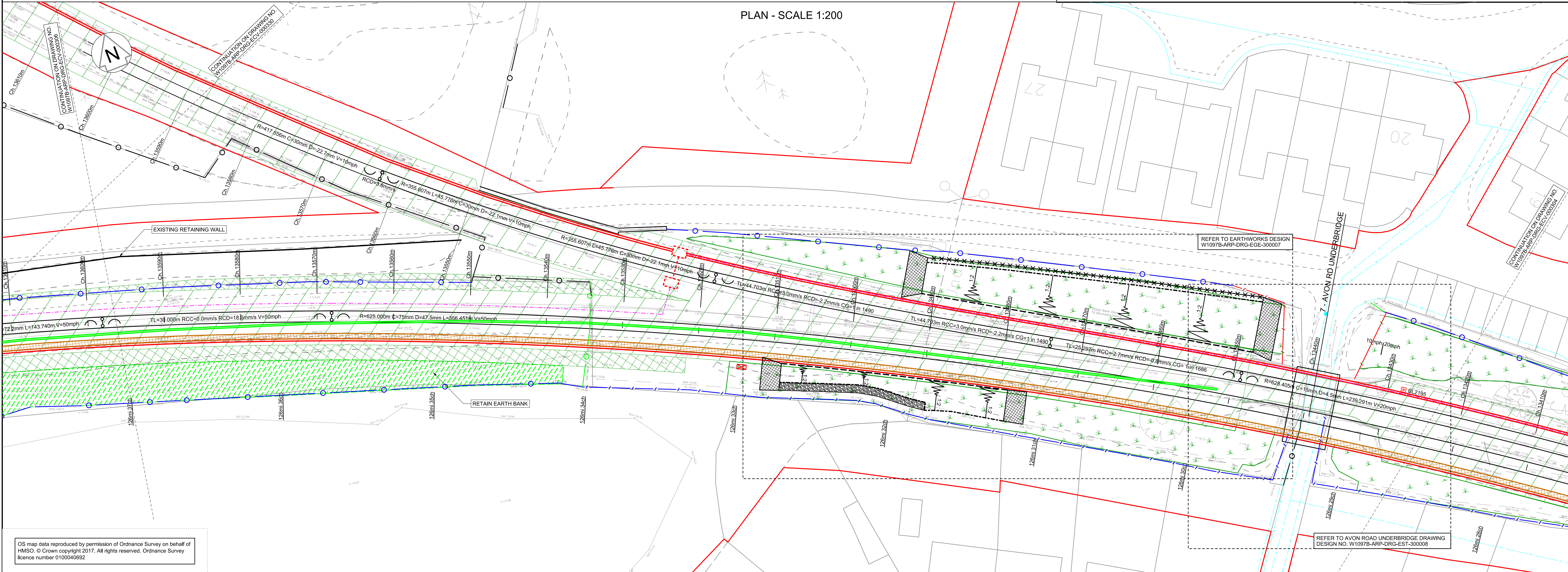
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Sheet: **4 of 31**

LEGEND			
MINOR CIVILS		TELECOM LEGEND	
EXISTING FENCE GRADE I	—	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE	—
EXISTING FENCE GRADE II	—	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	
EXISTING FENCE GRADE III	—	TELEPHONE (PROPOSED)	☒
EXISTING FENCE REMOVED	—	BOX ON POST (PROPOSED)	☒
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	—	FIBRE JOINT (PROPOSED)	☒
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	—	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	—	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒
PROPOSED FENCE GRADE I	—	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒
PROPOSED FENCE GRADE II	—		
PROPOSED FENCE GRADE III	—		
PROPOSED TROUING	—		
EXISTING TROUING	—		
REMOVED TROUING	—		
EXISTING TROUING MODIFIED/REPLACED	—		
PROPOSED UNDER TRACK CROSSING (UTX)	—		
EXISTING UNDER TRACK CROSSING (UTX)	—		
REMOVED UNDER TRACK CROSSING (UTX)	—		
PROPOSED CABINET LOCATION (NOT TO SCALE)	☒		
PROPOSED SIGNAL (NOT TO SCALE)	☒		
EXISTING CABINET TO BE REMOVED/RELOCATED	☒		
EXISTING SIGNAL TO BE REMOVED	☒		
EXISTING CABINET LOCATION	☒		
MINOR EARTHWORKS RETAINING STRUCTURE	☒		
EARTHWORKS STRUCTURE	☒		
NOISE BARRIER	☒		
DEVELOPMENT CONSENT ORDER (DCO)	☒		
LAND BOUNDARY	☒		
CONTINUOUS POSITION OF SAFETY	☒		
AUTHORISED WALKING ROUTE	☒		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	☒		
WATER MAIN	—		
FOUL SEWER	—		
RISING MAIN	—		
SEWER SURFACE	—		
HIGH VOLTAGE ELECTRICITY - BELOW GROUND	—		
LOW VOLTAGE ELECTRICITY - BELOW GROUND	—		
HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	—		
LOW VOLTAGE ELECTRICITY - ABOVE GROUND	—		
GPSS PIPELINE	—		
LOW PRESSURE GAS MAIN	—		
MEDIUM PRESSURE GAS MAIN	—		
HIGH PRESSURE GAS MAIN	—		
BT CABLE - BELOW GROUND	—		
BT CABLE ABOVE GROUND	—		
CABLE & WIRELESS	—		
VIRGIN MEDIA CABLE - BELOW GROUND	—		
VERIZON BACKBONE DUCT - BELOW GROUND	—		
EXISTING DITCHES TO BE RETAINED/REPLACED	—		
WATER VOLES	☒		
BATS	☒		
DORMICE	☒		
OTTERS	☒		
REPTILES	☒		
GREAT CRESTED NEWT	☒		
BIRD BOX (PROPOSED)	☒		
AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	☒		
WOODLAND TO BE PLANTED DURING CONSTRUCTION	☒		
GRASSLAND TO BE PLANTED DURING CONSTRUCTION	☒		
HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	☒		



- Legend/Notes
01. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
 02. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
 03. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
 04. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
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 06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.



Rev	Date	Description of Revisions	JB	RS	RS
A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS

Status
FIT FOR INFORMATION



Contractor(s)



Project
METROWEST PHASE 1

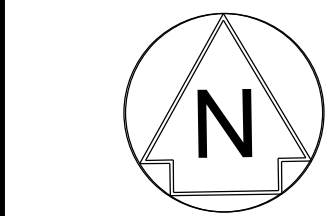
Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.13410m TO CH.13610m

Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20

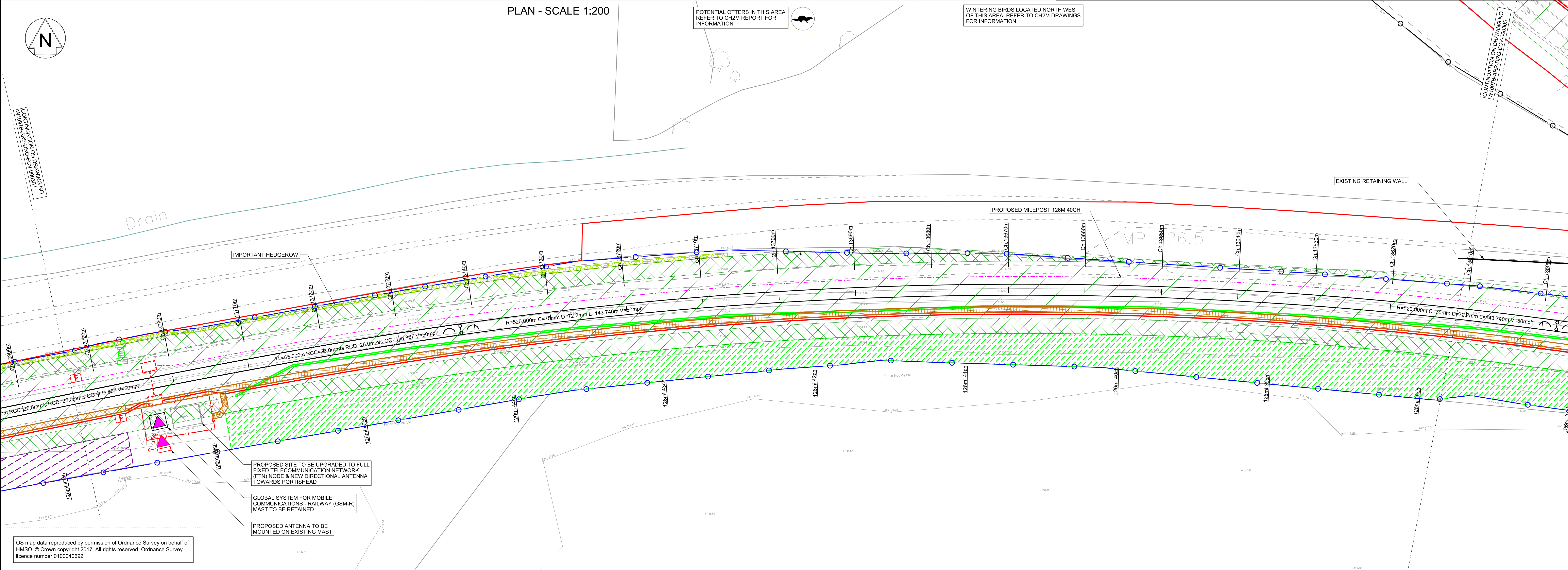
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Alternative Reference
POD 126M 28CH

Drawing Number
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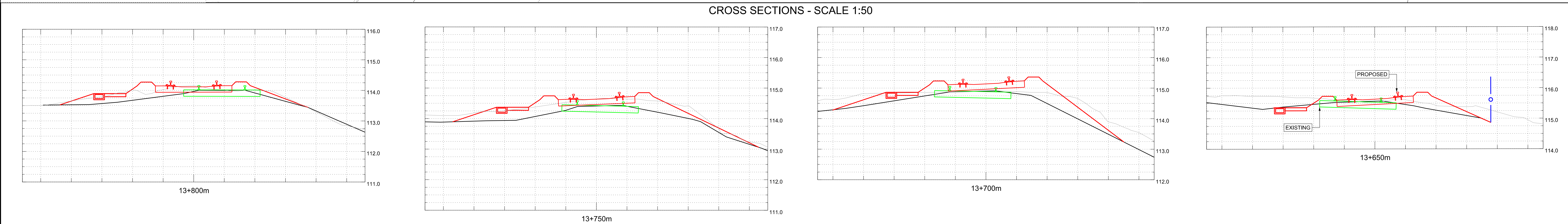
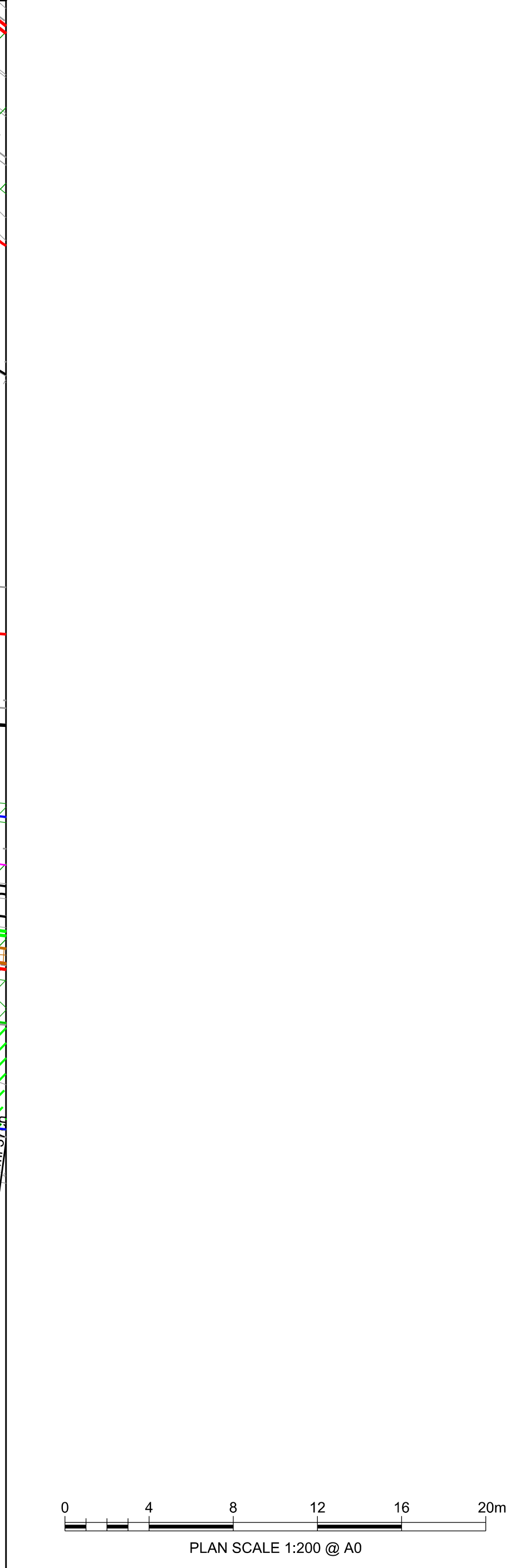
MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		BATS	
EXISTING FENCE GRADE III	— / — / —	EXISTING CABINET TO BE REMOVED/RELOCATED		RISING MAIN		DORMICE	
EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER		GRSS PIPELINE		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		LOW PRESSURE GAS MAIN		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY		MEDIUM PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUGHING	— / — / —	CONTINUOUS POSITION OF SAFETY		HIGH PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
REMOVED TROUGHING	— / — / —	AUTHORISED WALKING ROUTE		BT CABLE - BELOW GROUND			
EXISTING TROUGHING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE ABOVE GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		CABLE & WIRELESS			
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —			VIRGIN MEDIA CABLE - BELOW GROUND			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —			VERIZON BACKBONE DUCT - BELOW GROUND			
				EXISTING DITCHES TO BE RETAINED/REPLACED			



EXISTING ROADWAY (A103) ON DRAINAGE NO. 100 (N100)

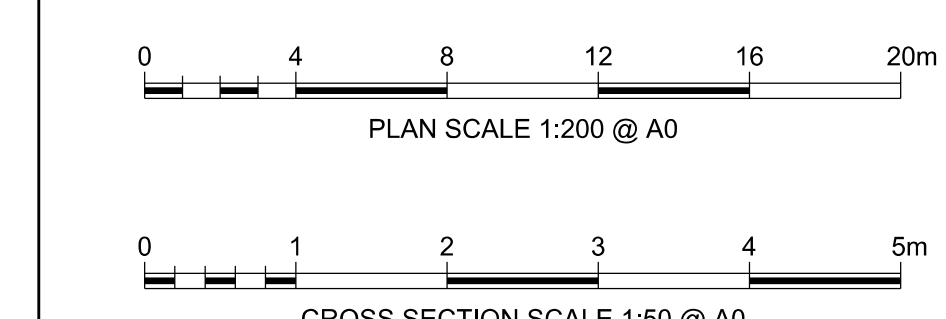
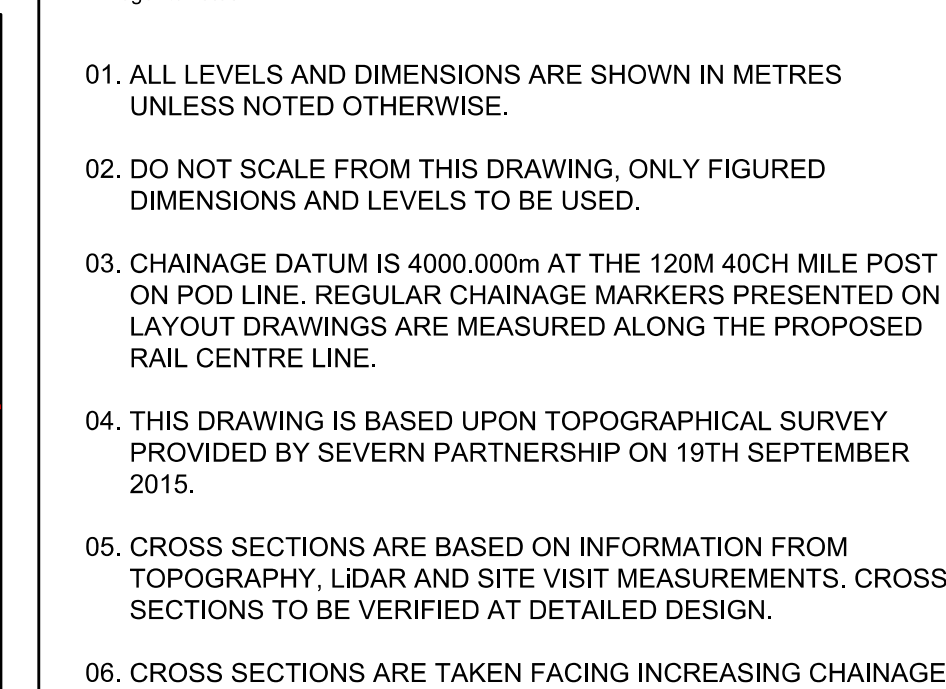
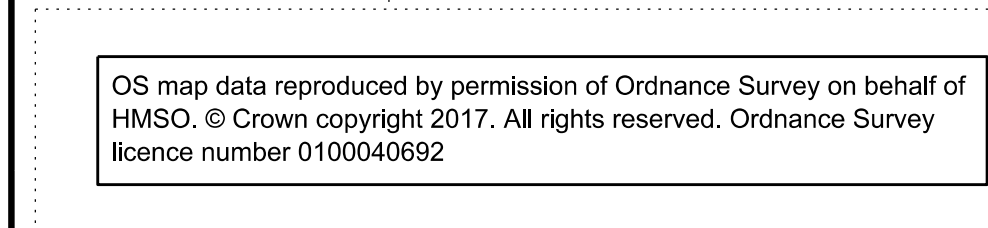


- Legend/Notes
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 06. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.



LEGEND			
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND
EXISTING FENCE GRADE I	— / — / —	WATER MAIN	INDICATIVE LOCATION OF SCRATCH BURIED
EXISTING FENCE GRADE II	— / — / —	FOUL SEWER	PROPOSED ARMOURD FIBRE CABLE
EXISTING FENCE GRADE III	— / — / —	RISING MAIN	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE
EXISTING FENCE REMOVED	— / — / —	SEWER SURFACE	TELEPHONE (PROPOSED)
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	LOW VOLTAGE ELECTRICITY - BELOW GROUND	BOX ON POST (PROPOSED)
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	FIBRE JOINT (PROPOSED)
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	GRSS PIPELINE	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA
PROPOSED FENCE GRADE I	— / — / —	LOW PRESSURE GAS MAIN	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED
PROPOSED FENCE GRADE II	— / — / —	MEDIUM PRESSURE GAS MAIN	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED
PROPOSED FENCE GRADE III	— / — / —	BT CABLE - BELOW GROUND	
PROPOSED TROUING	— / — / —	BT CABLE ABOVE GROUND	
REMOVED TROUING	— / — / —	CABLE & WIRELESS	
EXISTING TROUING MODIFIED/REPLACED	— / — / —	VIRGIN MEDIA CABLE - BELOW GROUND	
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	VIRGIN MEDIA CABLE - ABOVE GROUND	
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —	VERIZON BACKBONE DUCT - BELOW GROUND	
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —	EXISTING DITCHES TO BE RETAINED/REPLACED	
PROPOSED CABINET LOCATION (NOT TO SCALE)	— / — / —		
PROPOSED SIGNAL (NOT TO SCALE)	— / — / —		
EXISTING CABINET TO BE REMOVED/RELOCATED	— / — / —		
EXISTING SIGNAL TO BE REMOVED	— / — / —		
EXISTING CABINET LOCATION	— / — / —		
MINOR EARTHWORKS RETAINING STRUCTURE	— / — / —		
EARTHWORKS STRUCTURE	— / — / —		
NOISE BARRIER	— / — / —		
DEVELOPMENT CONSENT ORDER (DCO)	— / — / —		
LAND BOUNDARY	— / — / —		
CONTINUOUS POSITION OF SAFETY	— / — / —		
AUTHORISED WALKING ROUTE	— / — / —		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	— / — / —		
EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	— / — / —		
SPECIES, ECOLOGY, LANDSCAPE			
WATER VOLES			
BATS			
DORMICE			
OTTERS			
REPTILES			
GREAT CRESTED NEWT			
BIRD BOX (PROPOSED)			
AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION			
WOODLAND TO BE PLANTED DURING CONSTRUCTION			
GRASSLAND TO BE PLANTED DURING CONSTRUCTION			
HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION			

Project			
METROWEST PHASE 1			
Drawing Title			
DISUSED RAILWAY ENGINEERING PLANS			
GRIP 4 MINOR CIVILS			
CH.13600m TO CH.13800m			
Designed	J. BACINSKI	Signed	Date 28/08/20
Drawn	J. BACINSKI	Signed	Date 28/08/20
Checked	R. SNELL	Signed	Date 28/08/20
Approved	R. SNELL	Signed	Date 28/08/20
Scale(s)	1:200	ELR & Mileage	POD 126M 38CH
Alternative Reference		Sheet	6 of 31
Drawing Number	W1097B-ARP-DRG-ECV-000306	Revision	



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	
Rev	Date	Description of Revisions	Drawn	Chkd	
Status					Suitability
FIT FOR INFORMATION					S



Contractor(s)	
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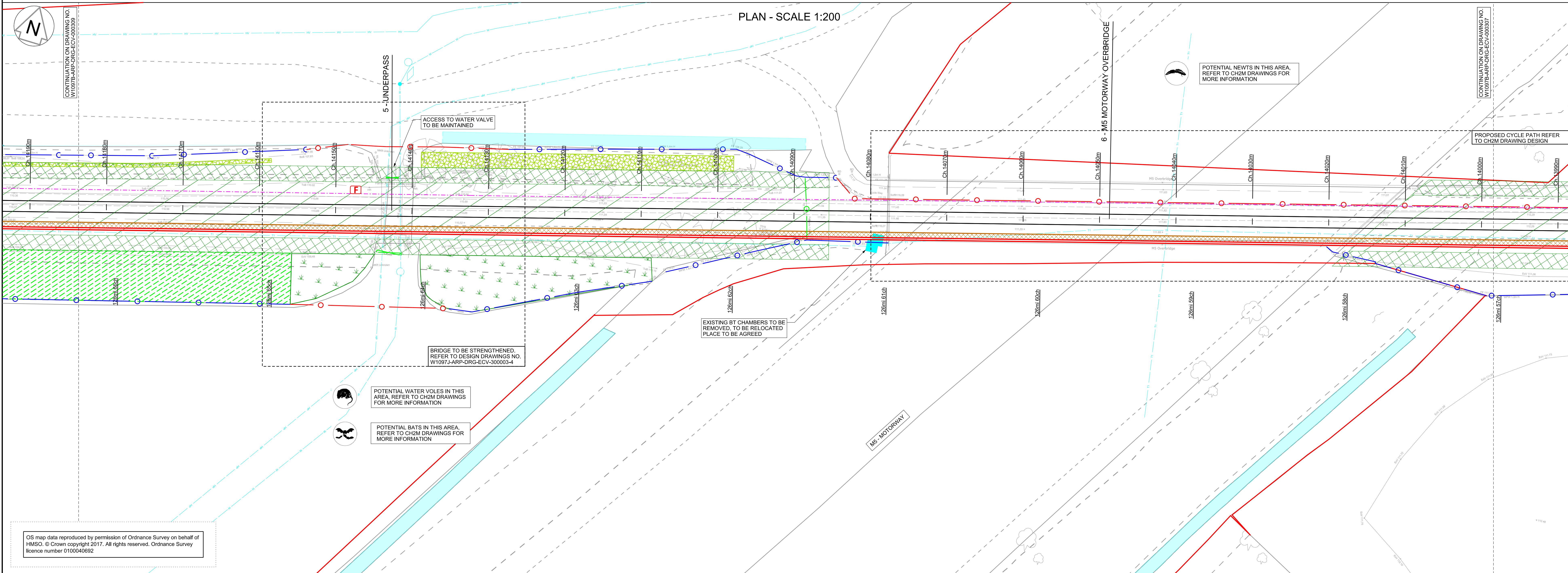


Project	METROWEST PHASE 1
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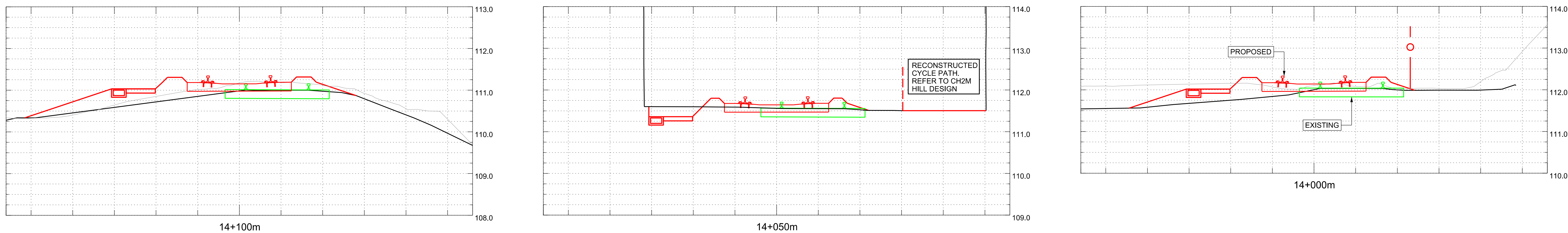
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Designed	J. BACINSKI	Signed	Date 28/01/20
Drawn	J. BACINSKI	Signed	Date 28/01/20
Checked	R. SNELL	Signed	Date 28/01/20
Approved	R. SNELL	Signed	Date 28/01/20
Scale(s)	1:200	E/LR & Mileage POD 126M 47CH	
Alternative Reference		Sheet	

W1097B-ARP-DRG-FCV-000307 A04

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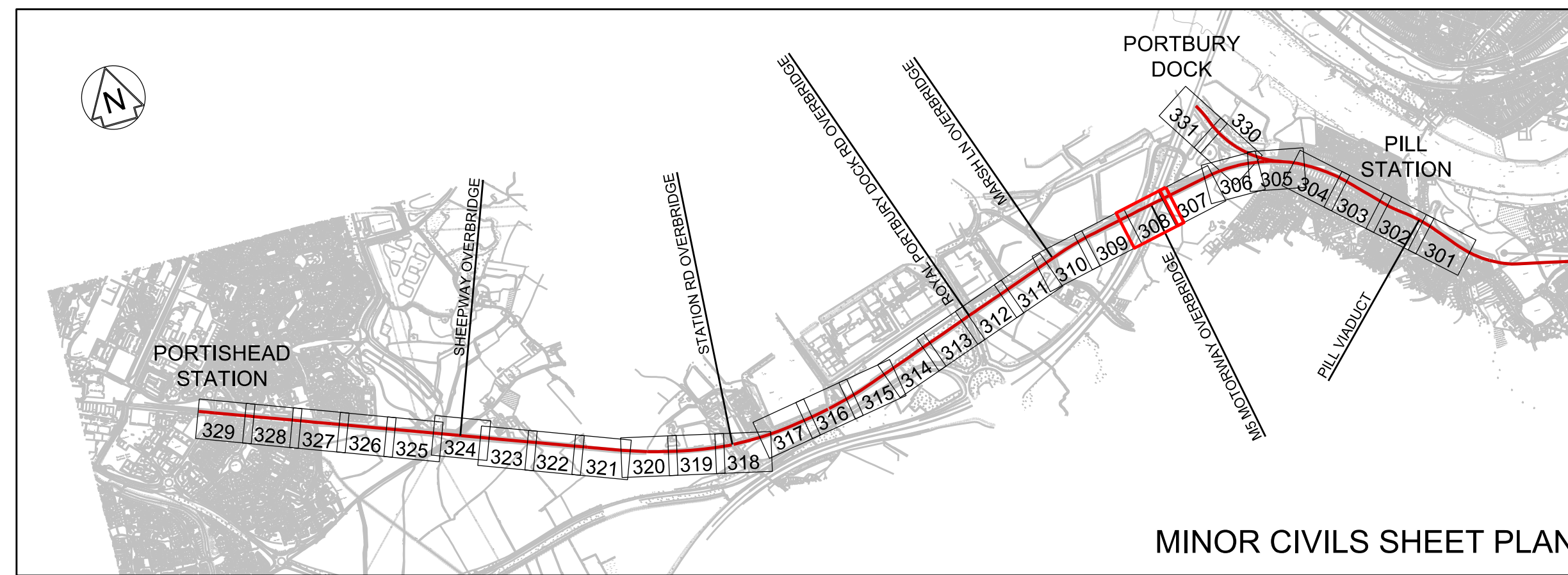


CROSS SECTIONS - SCALE 1:50



LEGEND			
MINOR CIVILS	EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE
EXISTING FENCE GRADE I EXISTING FENCE GRADE II EXISTING FENCE GRADE III EXISTING FENCE REMOVED EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE PROPOSED FENCE GRADE I PROPOSED FENCE GRADE II PROPOSED FENCE GRADE III PROPOSED TROUGHING REMOVED TROUGHING EXISTING TROUGHING MODIFIED/REPLACED PROPOSED UNDER TRACK CROSSING (UTX) REMOVED UNDER TRACK CROSSING (UTX)	PROPOSED CABINET LOCATION (NOT TO SCALE) PROPOSED SIGNAL (NOT TO SCALE) EXISTING CABINET TO BE REMOVED/RELOCATED EXISTING SIGNAL TO BE REMOVED EXISTING CABINET LOCATION MINOR EARTHWORKS RETAINING STRUCTURE EARTHWORKS STRUCTURE NOISE BARRIER DEVELOPMENT CONSENT ORDER (DCO) LAND BOUNDARY CONTINUOUS POSITION OF SAFETY AUTHORISED WALKING ROUTE EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	WATER MAIN FOUL SEWER RISING MAIN SEWER SURFACE HIGH VOLTAGE ELECTRICITY - BELOW GROUND LOW VOLTAGE ELECTRICITY - BELOW GROUND HIGH VOLTAGE ELECTRICITY - ABOVE GROUND LOW VOLTAGE ELECTRICITY - ABOVE GROUND GRSS PIPELINE LOW PRESSURE GAS MAIN MEDIUM PRESSURE GAS MAIN HIGH PRESSURE GAS MAIN BT CABLE - BELOW GROUND BT CABLE ABOVE GROUND CABLE & WIRELESS VIRGIN MEDIA CABLE - BELOW GROUND VERIZON BACKBONE DUCT - BELOW GROUND EXISTING DITCHES TO BE RETAINED/REPLACED	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE TELEPHONE (PROPOSED) BOX ON POST (PROPOSED) FIBRE JOINT (PROPOSED) PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED WATER VOLES BATS DORMICE OTTERS REPTILES GREAT CRESTED NEWT BIRD BOX (PROPOSED) AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION WOODLAND TO BE PLANTED DURING CONSTRUCTION GRASSLAND TO BE PLANTED DURING CONSTRUCTION HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION

- Legend/Notes
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 2. DO NOT SCALE FROM THIS DRAWING, ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS

Status
FIT FOR INFORMATION

Subsidiary
S2



Contractor(s)

ARUP

Project
METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.13990m TO CH.14190m

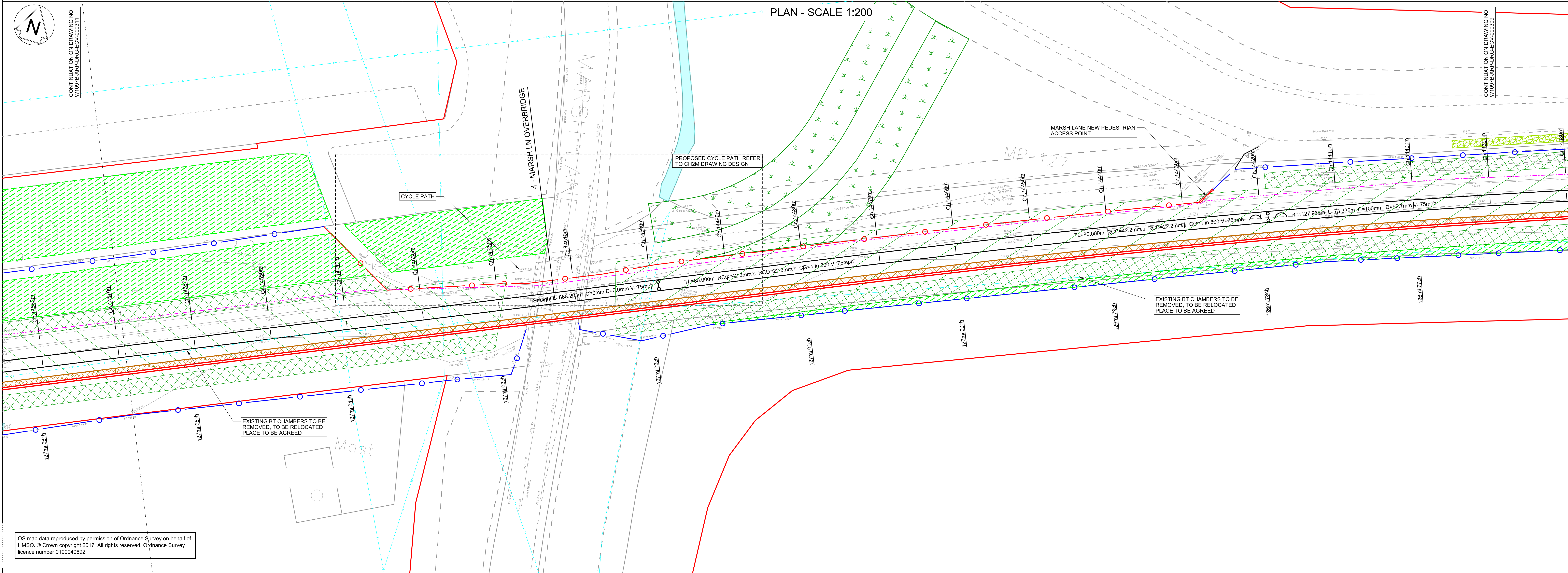
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Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

Scale(s)
1:200

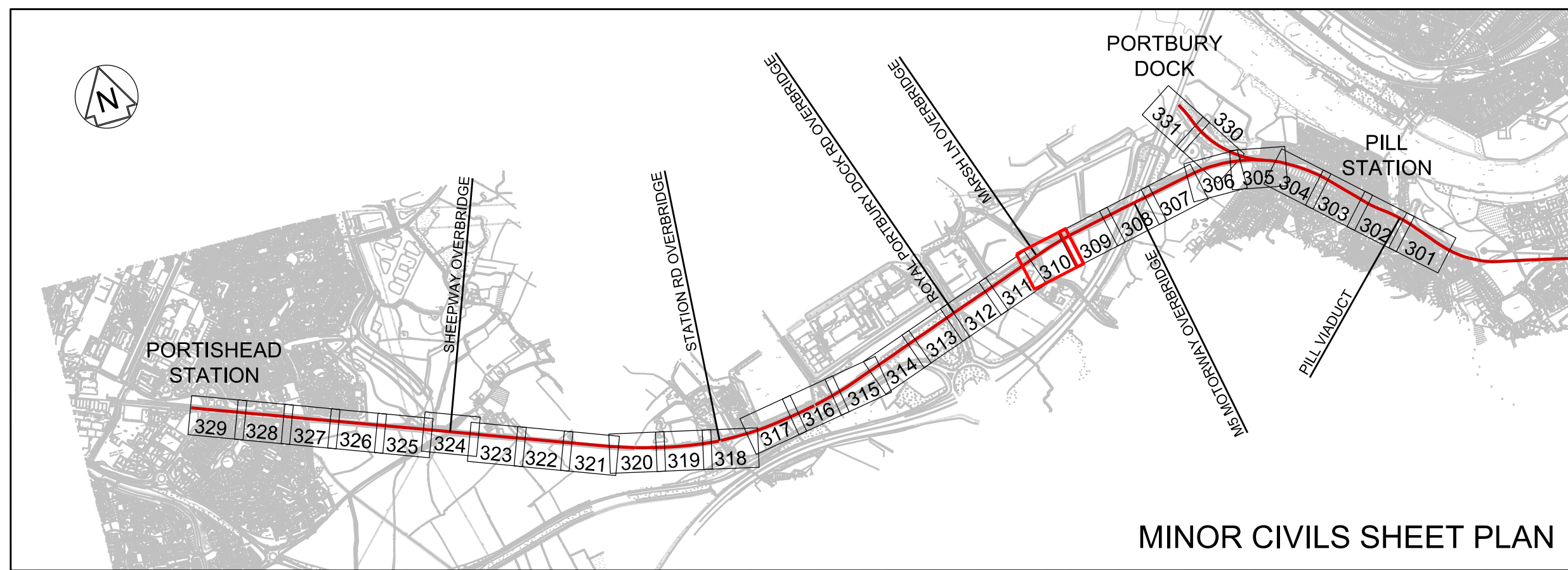
ELR & Mileage
POD 126M 57CH

Alternative Reference
8 of 31

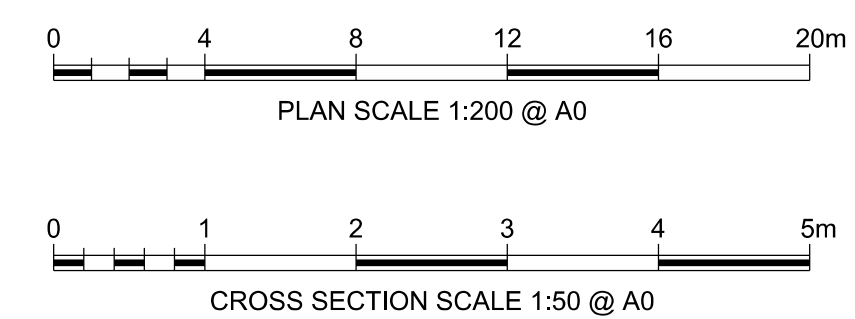
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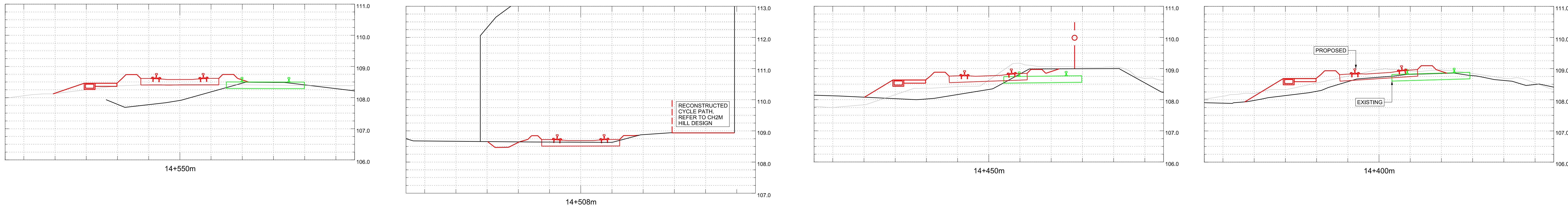
- Legend/Notes
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CROSS SECTIONS - SCALE 1:50



Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS

STATUS: FIT FOR INFORMATION



Contractor(s)

ARUP
63 St Thomas Street
Bristol BS1 4JZ
Tel +44(0)117 976 5432 Fax +44(0)117 976 5433
www.arup.com

Project
METROWEST PHASE 1

Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRP 4 MINOR CIVILS
CH.14380m TO CH.14580m**

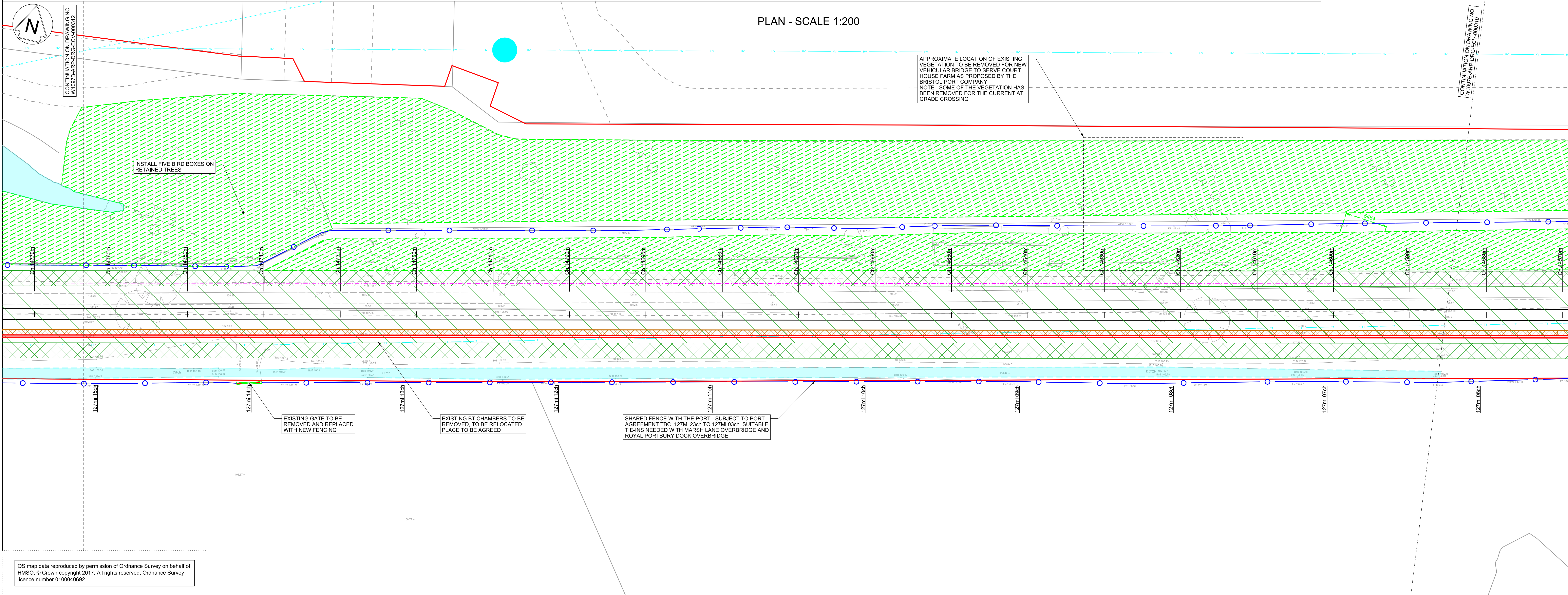
Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20

Scale(s)
1:200
Alternative Reference
POD 126M 76CH

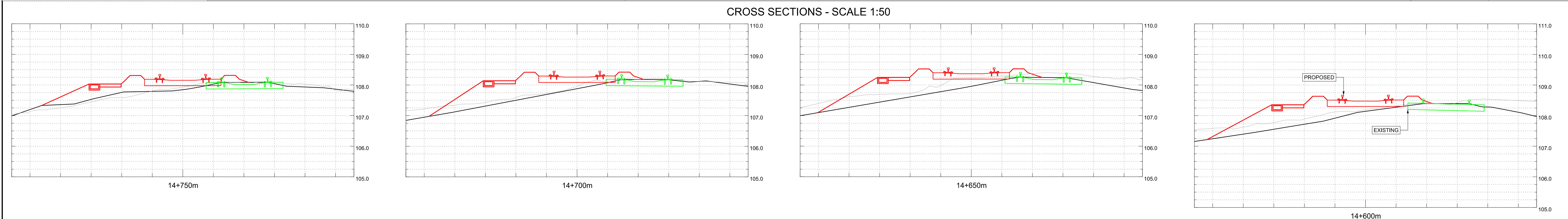
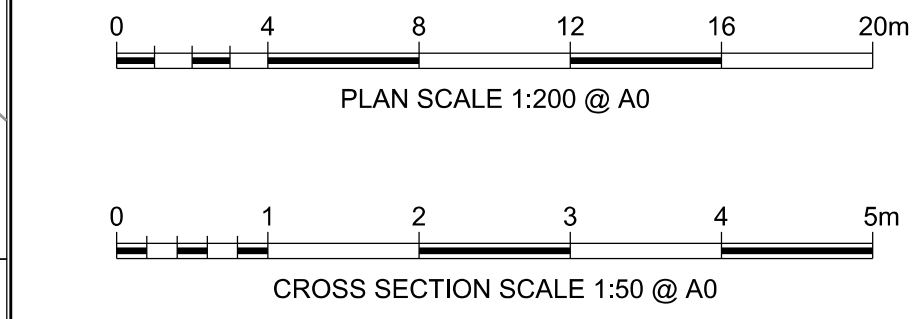
Drawing Number
W1097B-ARP-DRG-ECV-000310

Sheet
10 of 31

LEGEND					
MINOR CIVILS		EXISTING UTILITIES	TELECOM LEGEND	SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II		FOUL SEWER		BATS	
EXISTING FENCE GRADE III		RISING MAIN		DORMICE	
EXISTING FENCE REMOVED		SEWER SURFACE		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II		GRSS PIPELINE		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III		LOW PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUGHING		MEDIUM PRESSURE GAS MAIN		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUGHING		HIGH PRESSURE GAS MAIN			
REMOVED TROUGHING		BT CABLE - BELOW GROUND			
EXISTING TROUGHING MODIFIED/REPLACED		BT CABLE ABOVE GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)		CABLE & WIRELESS			
EXISTING UNDER TRACK CROSSING (UTX)		VIRGIN MEDIA CABLE - BELOW GROUND			
REMOVED UNDER TRACK CROSSING (UTX)		VERIZON BACKBONE DUCT - BELOW GROUND			
		EXISTING DITCHES TO BE RETAINED/REPLACED			



- Legend/Notes
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A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					Subsidiary
FIT FOR INFORMATION					S2



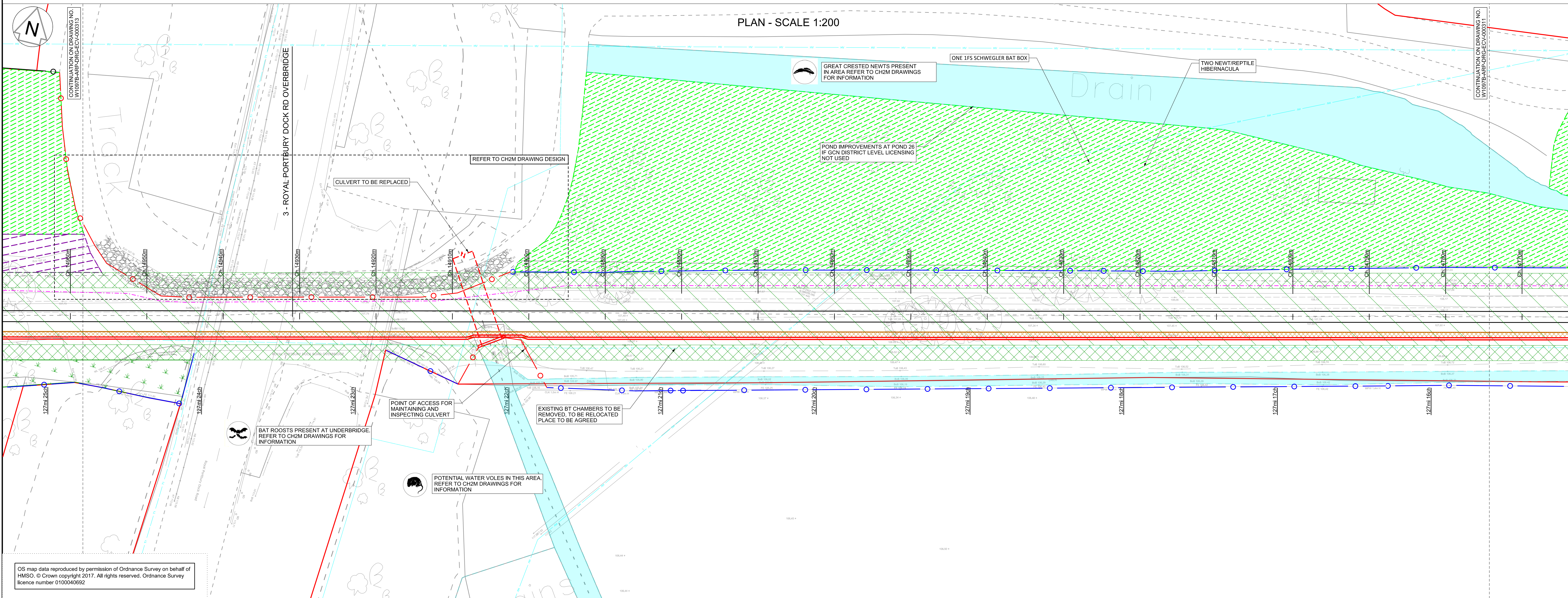
Project
METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.14570m TO CH.14770m

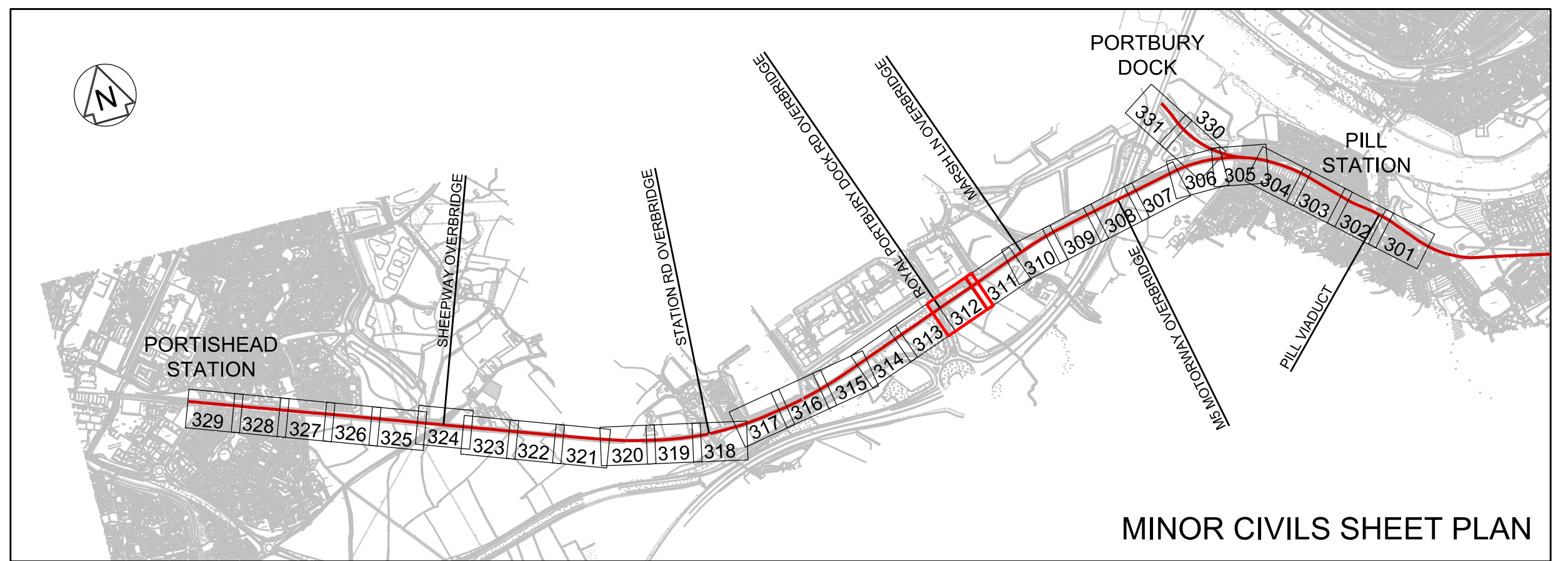
Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19
Scale(s)	1:200	ELR & Mileage	POD 127M 06CH	Sheet	11 of 31
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000311 A03

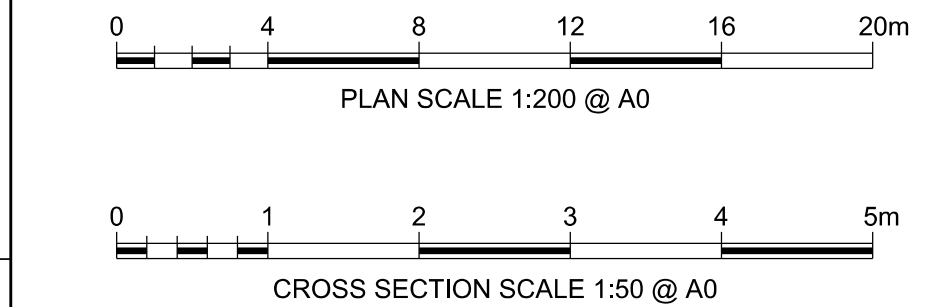
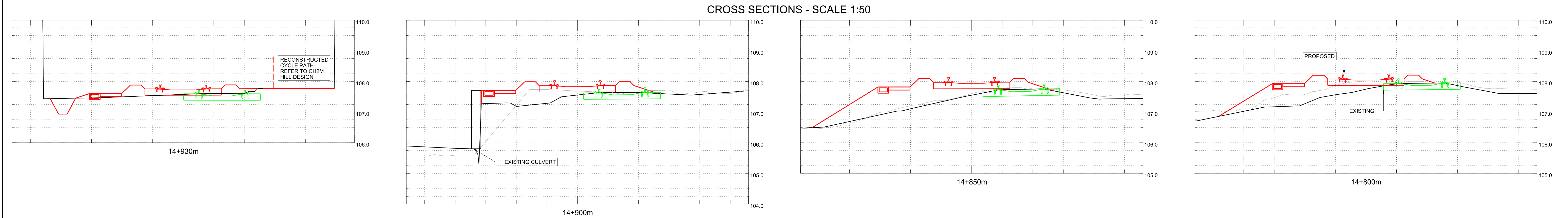
MINOR CIVILS		LEGEND		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)	⊠	WATER MAIN	—	WATER VOLES	☞
EXISTING FENCE GRADE II	— ○ —	PROPOSED SIGNAL (NOT TO SCALE)	⊠	FOUL SEWER	—	BATS	☞
EXISTING FENCE GRADE III	— — —	EXISTING CABINET TO BE REMOVED/RELOCATED	⊠	RISING MAIN	—	DORMICE	☞
EXISTING FENCE REMOVED	—	EXISTING SIGNAL TO BE REMOVED	⊠	SEWER SURFACE	—	OTTERS	☞
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION	⊠	HIGH VOLTAGE ELECTRICITY - BELOW GROUND	—	REPTILES	☞
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE	⊠	LOW VOLTAGE ELECTRICITY - BELOW GROUND	—	GREAT CRESTED NEWT	☞
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE	⊠	HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	—	BIRD BOX (PROPOSED)	☞
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER	⊠	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	—	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	⊠
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)	⊠	GRSS PIPELINE	—	WOODLAND TO BE PLANTED DURING CONSTRUCTION	⊠
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY	⊠	LOW PRESSURE GAS MAIN	—	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	⊠
PROPOSED TROUGHING	— / — / —	CONTINUOUS POSITION OF SAFETY	⊠	MEDIUM PRESSURE GAS MAIN	—	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	⊠
REMOVED TROUGHING	— / — / —	AUTHORISED WALKING ROUTE	⊠	HIGH PRESSURE GAS MAIN	—		
EXISTING TROUGHING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	⊠	BT CABLE - BELOW GROUND	—		
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	⊠	BT CABLE ABOVE GROUND	—		
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —		⊠	CABLE & WIRELESS	—		
			⊠	VIRGIN MEDIA CABLE - BELOW GROUND	—		
			⊠	VERIZON BACKBONE DUCT - BELOW GROUND	—		
			⊠	EXISTING DITCHES TO BE RETAINED/REPLACED	—		



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- Legend/Notes
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A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status	FIT FOR INFORMATION				Subsidiary S2



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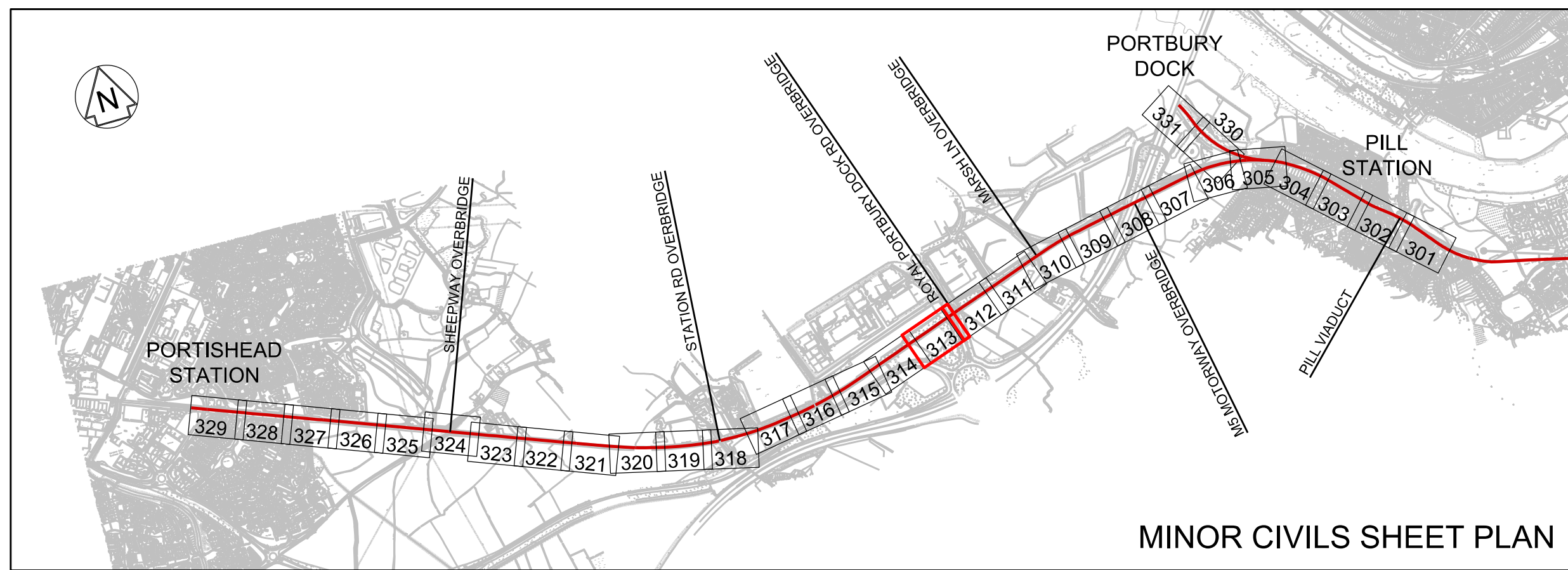
Project
METROWEST PHASE 1

Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRP 4 MINOR CIVILS
CH.14770m TO CH.14960m**

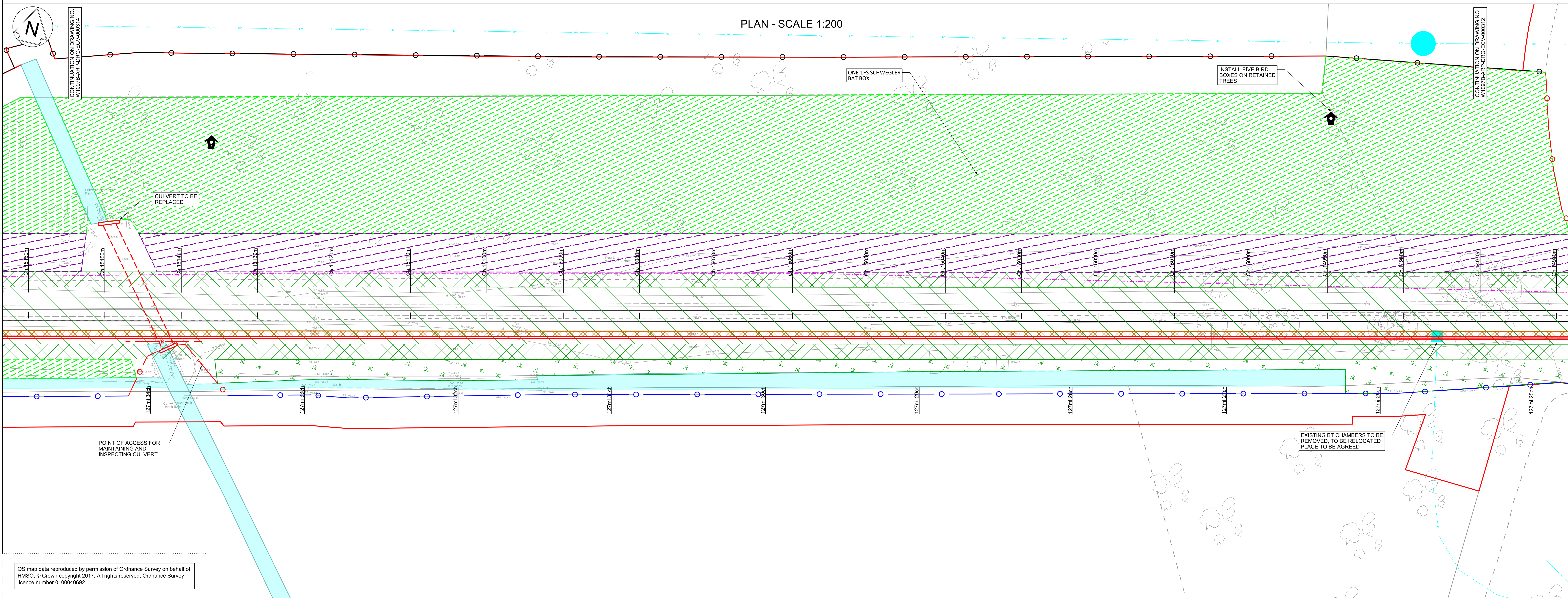
Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20
Scale(s)	1:200	ELR & Mileage	POD 127M 16CH	Sheet	
Alternative Reference				12 of 31	
Drawing Number	W1097B-ARP-DRG-ECV-000312				
	Revision				

W1097B-ARP-DRG-ECV-000312 | A04

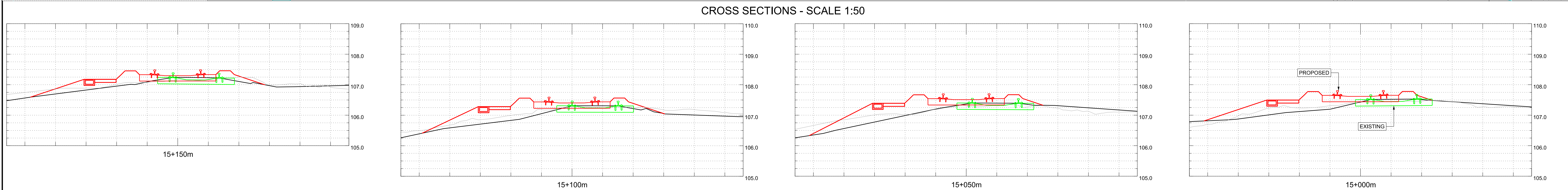
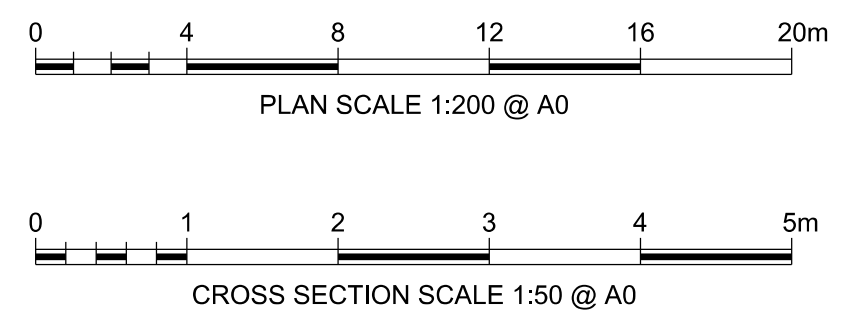
MINOR CIVILS		LEGEND		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		BATS	
EXISTING FENCE GRADE III	— / — / —	EXISTING CABINET TO BE REMOVED/RELOCATED		RISING MAIN		DORMICE	
EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION		LOW VOLTAGE ELECTRICITY - BELOW GROUND		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		GREAT CRISTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE		GRSS PIPELINE		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER		LOW PRESSURE GAS MAIN		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		MEDIUM PRESSURE GAS MAIN		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY		HIGH PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUGHING	— / — / —	CONTINUOUS POSITION OF SAFETY		BT CABLE - BELOW GROUND		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
REMOVED TROUGHING	— / — / —	AUTHORISED WALKING ROUTE		BT CABLE ABOVE GROUND			
EXISTING TROUGHING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		CABLE & WIRELESS			
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		VIRGIN MEDIA CABLE - BELOW GROUND			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —			VERIZON BACKBONE DUCT - BELOW GROUND			
				EXISTING DITCHES TO BE RETAINED/REPLACED			



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A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status	FIT FOR INFORMATION				S2



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Project
METROWEST PHASE 1

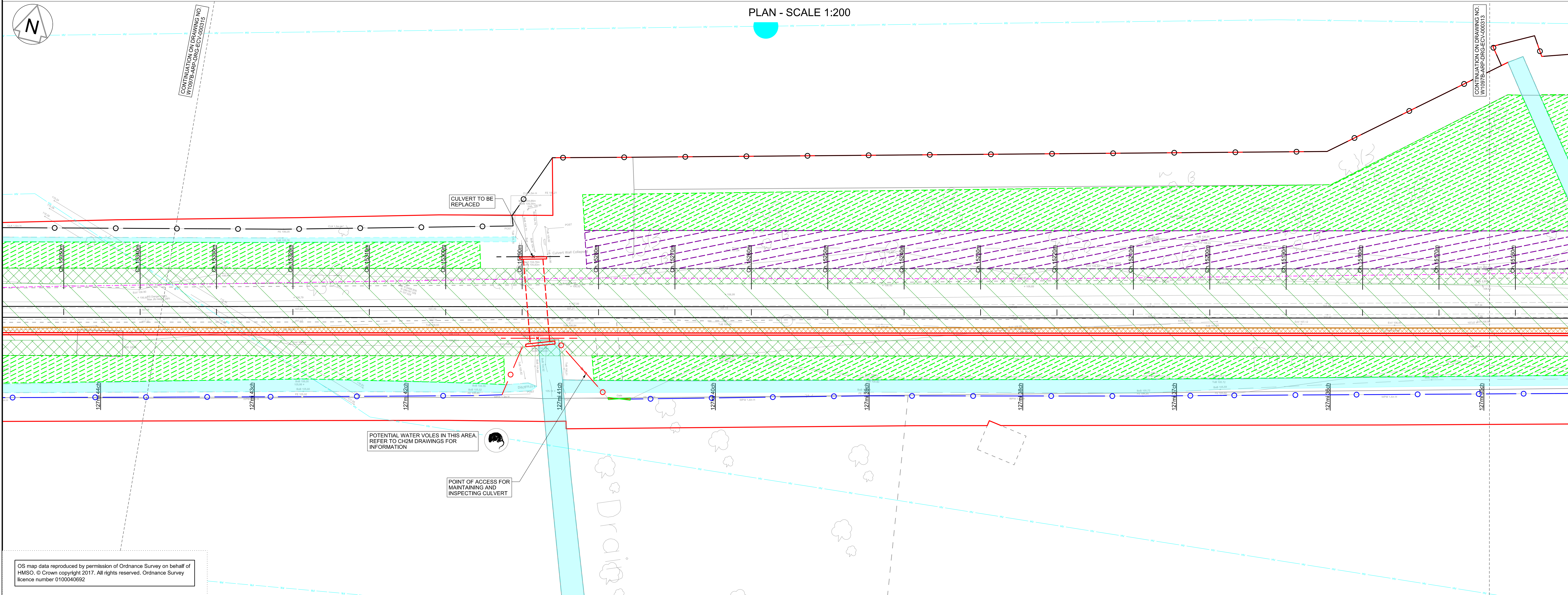
Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRP 4 MINOR CIVILS
CH.14960m TO CH.15160m**

Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

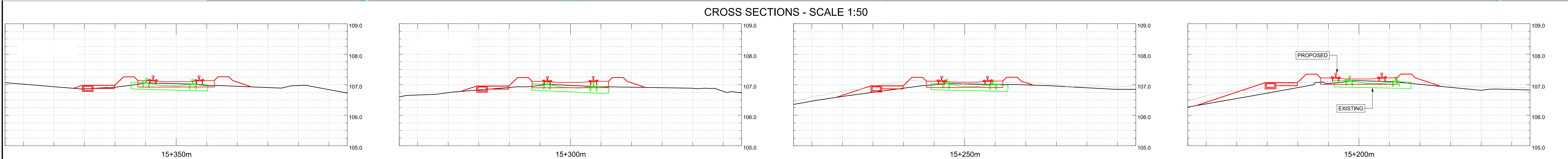
Scale(s)
1:200
Alternative Reference
POD 127M 25CH

Drawing Number
W1097B-ARP-DRG-ECV-000313

MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)	☒	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURD FIBRE CABLE	— — — — —	WATER VOLES	🦫
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)	☒	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE		BATS	🦇
EXISTING FENCE GRADE III	— / — / —	EXISTING CABINET TO BE REMOVED/RELOCATED	☒	TELEPHONE (PROPOSED)	☒	DORMICE	🐭
EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED	☒	BOX ON POST (PROPOSED)	☒	OTTERS	🦦
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION	☒	FIBRE JOINT (PROPOSED)	☒	REPTILES	🐍
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE	☒	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	☒	GREAT CRESTED NEWT	🦎
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE	☒	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒	BIRD BOX (PROPOSED)	☒
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER	☒	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	☒	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	🌿
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)	☒			WOODLAND TO BE PLANTED DURING CONSTRUCTION	🌳
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY	☒			GRASSLAND TO BE PLANTED DURING CONSTRUCTION	🌱
PROPOSED TROUING	— / — / —	CONTINUOUS POSITION OF SAFETY	☒			HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	🌳
EXISTING TROUING	— / — / —	AUTHORISED WALKING ROUTE	☒				
REMOVED TROUING	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒				
EXISTING TROUING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED	☒				
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —						
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						

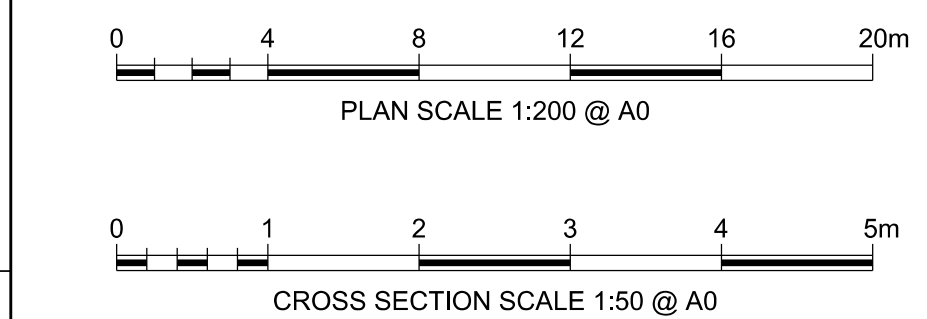


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- Legend/Notes
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MINOR CIVILS SHEET PLAN



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A04	28/08/20	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev	Date	Description of Revisions	Drawn	Cred	Sub
Status	FIT FOR INFORMATION				S2



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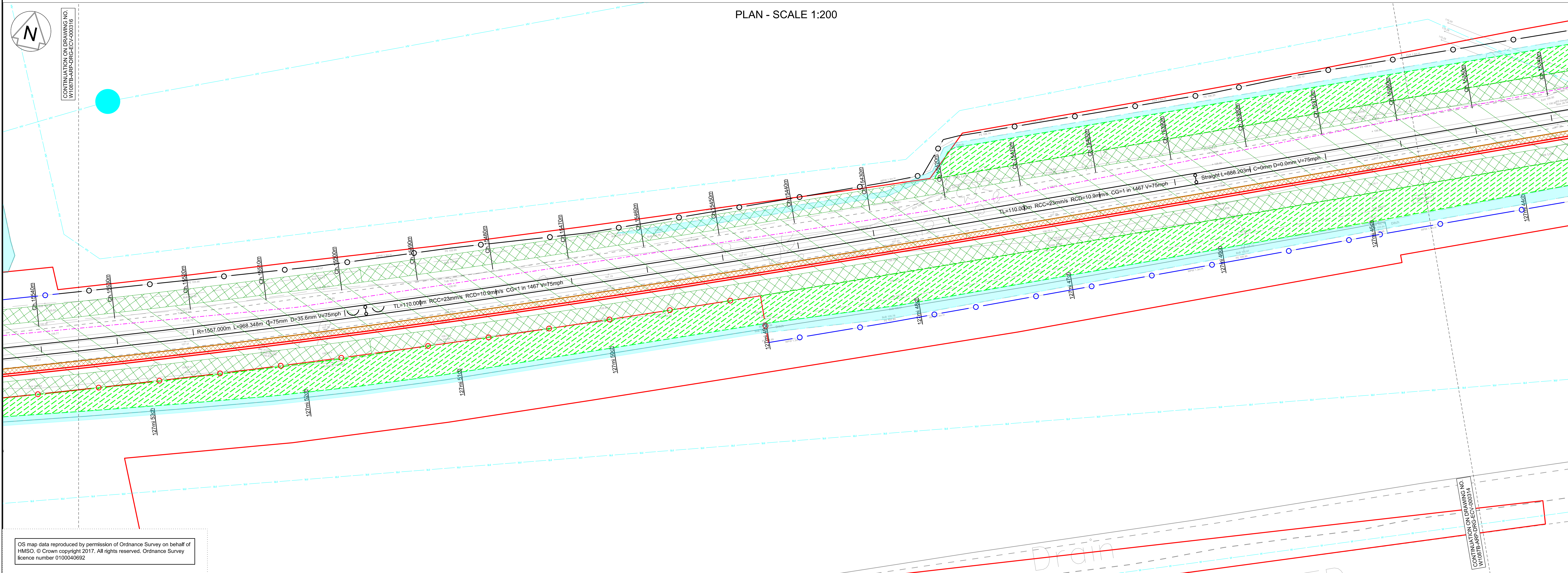
Project
METROWEST PHASE 1

Drawing Title
**DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.15160m TO CH.15350m**

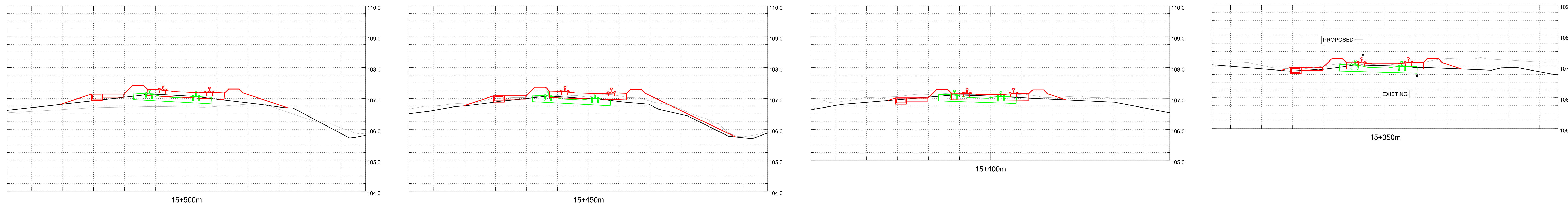
Designed	J. BACINSKI	Signed		Date	28/08/20
Drawn	J. BACINSKI	Signed		Date	28/08/20
Checked	R. SNELL	Signed		Date	28/08/20
Approved	R. SNELL	Signed		Date	28/08/20
Scale(s)	1:200	ELR & Mileage	POD 127M 35CH	Sheet	14 of 31
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000314 | A04

MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		WATER VOLES	
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		BATS	
EXISTING FENCE GRADE III	— / — / —	EXISTING CABINET TO BE REMOVED/RELOCATED		RISING MAIN		DORMICE	
EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		OTTERS	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION		LOW VOLTAGE ELECTRICITY - BELOW GROUND		REPTILES	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - ABOVE GROUND		GREAT CRESTED NEWT	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE		GRSS PIPELINE		BIRD BOX (PROPOSED)	
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER		LOW PRESSURE GAS MAIN		AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		MEDIUM PRESSURE GAS MAIN		WOODLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY		HIGH PRESSURE GAS MAIN		GRASSLAND TO BE PLANTED DURING CONSTRUCTION	
PROPOSED TROUING	— / — / —	CONTINUOUS POSITION OF SAFETY		BT CABLE - BELOW GROUND		HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	
EXISTING TROUING	— / — / —	AUTHORISED WALKING ROUTE		BT CABLE - ABOVE GROUND			
REMOVED TROUING	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		CABLE & WIRELESS			
EXISTING TROUING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		VIRGIN MEDIA CABLE - BELOW GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —			VERIZON BACKBONE DUCT - BELOW GROUND			
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —			EXISTING DITCHES TO BE RETAINED/REPLACED			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						

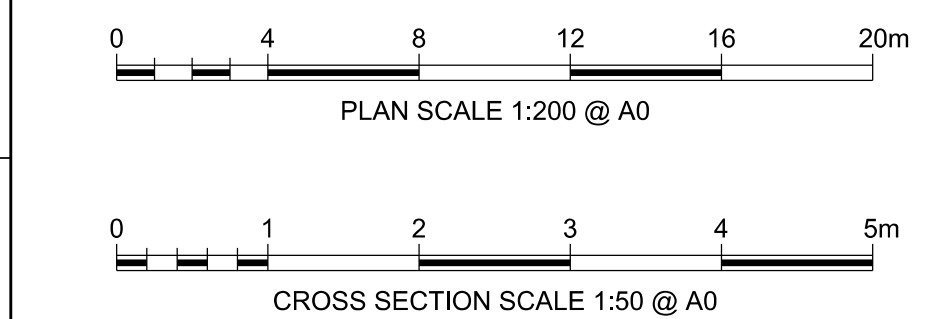


CROSS SECTIONS - SCALE 1:50



- Legend/Notes
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MINOR CIVILS SHEET PLAN



A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev.	Date	Description of Revisions	Drawn	Chkd	Appr.
Status	FIT FOR INFORMATION				S2



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Project
METROWEST PHASE 1

Drawing Title
DISUSED RAILWAY ENGINEERING PLANS
GRIP 4 MINOR CIVILS
CH.15340m TO CH.15540m

Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19
Scale(s)	1:200	ELR & Mileage	POD 127M 44CH	Sheet	15 of 27
Alternative Reference				Revision	

Drawing Number
W1097B-ARP-DRG-ECV-000315 A03

Sheet Size A0 841 x 1190

MINOR CIVILS		LEGEND		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)		WATER MAIN		INDICATIVE LOCATION OF SCRATCH BURIED	
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT TO SCALE)		FOUL SEWER		PROPOSED ARMOURD FIBRE CABLE	
EXISTING FENCE GRADE III	— / — / —	EXISTING CABINET TO BE REMOVED/RELOCATED		RISING MAIN		NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE	
EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED		SEWER SURFACE		TELEPHONE (PROPOSED)	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING CABINET LOCATION		HIGH VOLTAGE ELECTRICITY - BELOW GROUND		BOX ON POST (PROPOSED)	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE		LOW VOLTAGE ELECTRICITY - BELOW GROUND		FIBRE JOINT (PROPOSED)	
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	EARTHWORKS STRUCTURE		HIGH VOLTAGE ELECTRICITY - ABOVE GROUND		PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	
PROPOSED FENCE GRADE I	— / — / —	NOISE BARRIER		GRSS PIPELINE		PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	
PROPOSED FENCE GRADE II	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)		LOW PRESSURE GAS MAIN		EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY		MEDIUM PRESSURE GAS MAIN			
PROPOSED TROUING	— / — / —	CONTINUOUS POSITION OF SAFETY		HIGH PRESSURE GAS MAIN			
REMOVED TROUING	— / — / —	AUTHORISED WALKING ROUTE		BT CABLE - BELOW GROUND			
EXISTING TROUING MODIFIED/REPLACED	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION		BT CABLE ABOVE GROUND			
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION WITH NETWORK RAIL (NR) OPTION TO CLEAR IN FUTURE SHOWN CROSS HATCHED		CABLE & WIRELESS			
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —			VIRGIN MEDIA CABLE - BELOW GROUND			
				VERIZON BACKBONE DUCT - BELOW GROUND			
				EXISTING DITCHES TO BE RETAINED/REPLACED			