



# 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

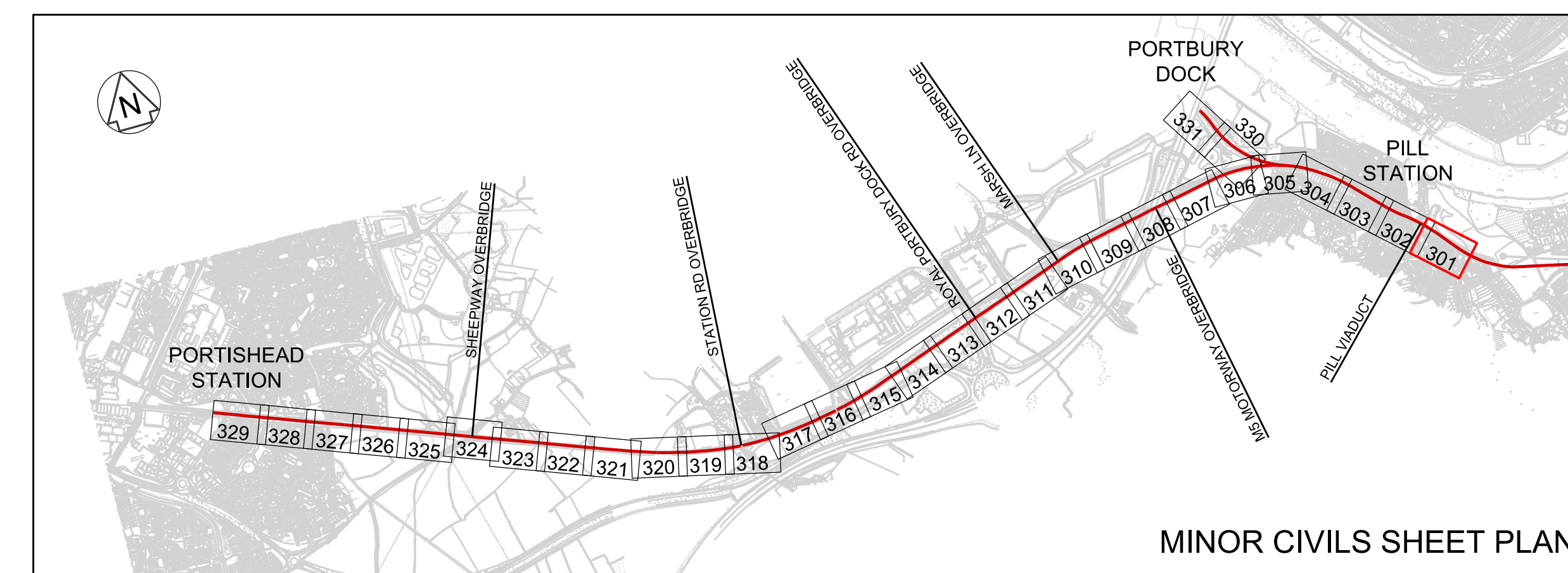
Date: November 2019



## Document Index

2.7	Disused railway engineering plans / GRIP 4 Minor Civils – Sheet 1 to 15	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)	W1097B-ARP-DRG-ECV-000301-15 Rev A03
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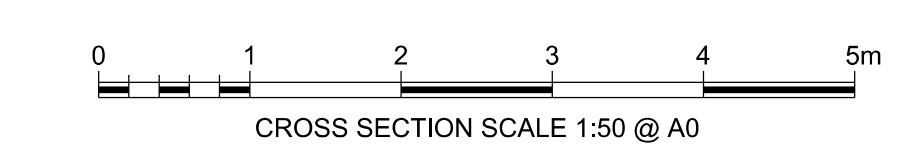
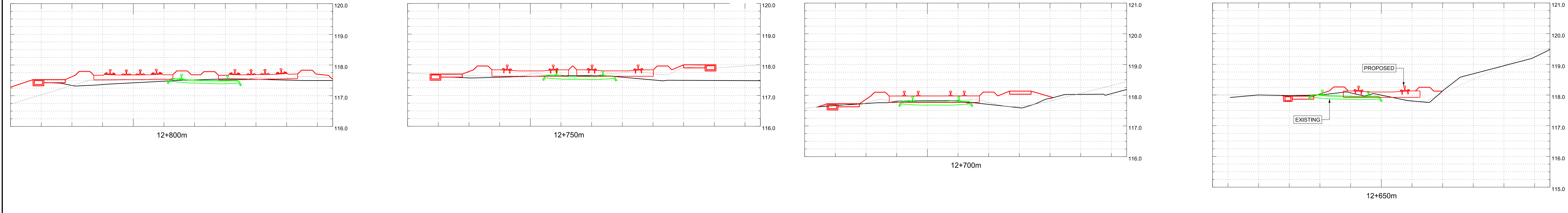
- Legend/Notes
1. ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
  2. DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
  3. CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
  4. THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
  5. CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
  6. CROSS SECTIONS ARE TAKEN FACING INCREASING CHAINAGE.

PLAN SCALE - 1:200



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CROSS SECTIONS - SCALE 1:50



Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Submittal
A01	15/03/19	ISSUE FOR INFORMATION				RS
A02	03/05/19	FOR DCO PLANNING APPLICATION				RS
A03	24/07/19	FOR DCO PLANNING APPLICATION				RS
						S2



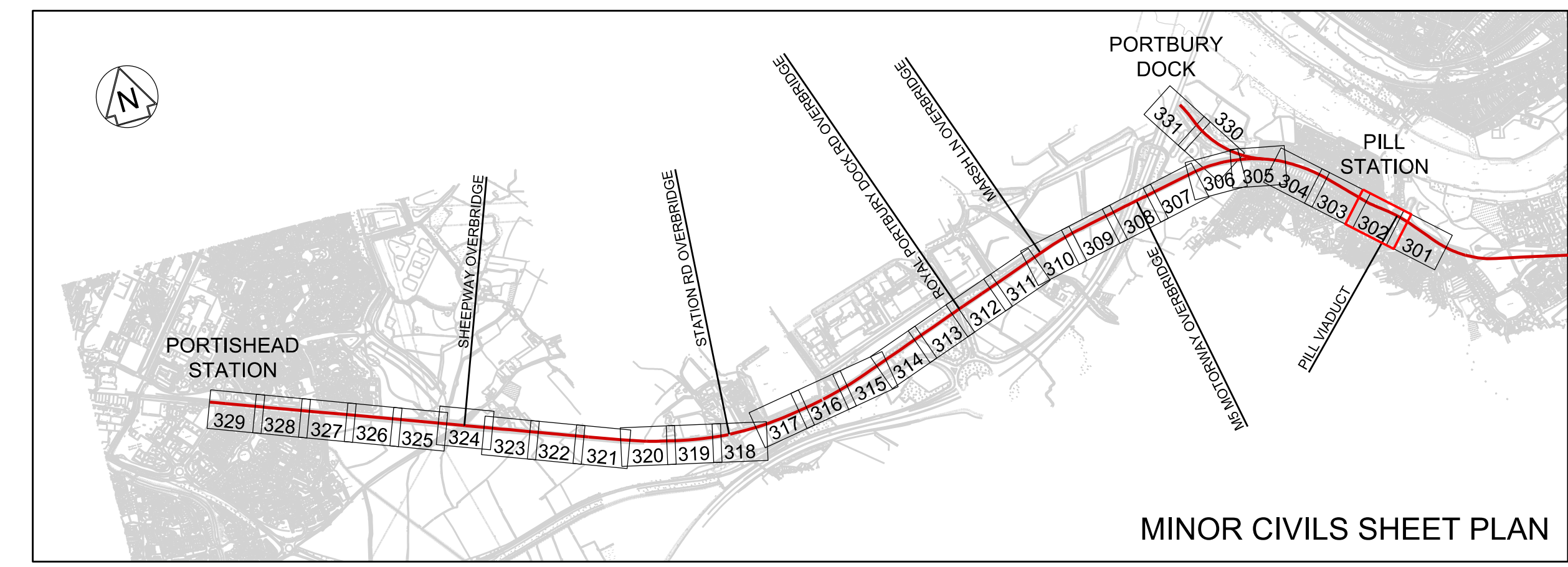
MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	---	PROPOSED CABINET LOCATION (NOT TO SCALE)	□	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ASSURED FIBRE CABLE	---	WATER VOLES	☞
EXISTING FENCE GRADE II	- - -	PROPOSED SIGNAL (NOT TO SCALE)	○	NOTE: 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) CO-LOCATED	☞	GREAT CRISTED 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 TROUGHING	---	CONTINUOUS POSITION OF SAFETY	□			HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	☞
EXISTING TROUGHING	---	AUTHORISED WALKING ROUTE	□				
EXISTING TROUGHING MODIFIED/REPLACED UNDER TRACK CROSSING (UTX)	---	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	□				
EXISTING 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	□				
REMOVED UNDER TRACK CROSSING (UTX)	---						

Project METROWEST PHASE 1

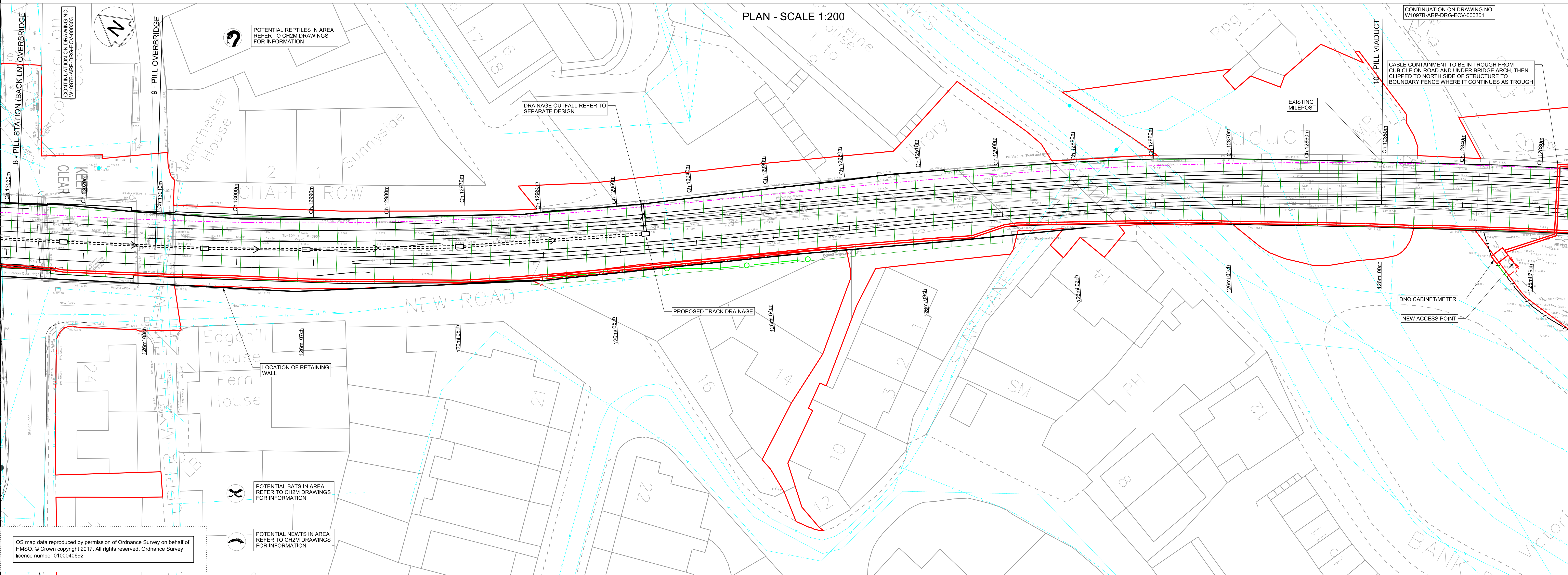
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DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.12630m TO CH.12830m

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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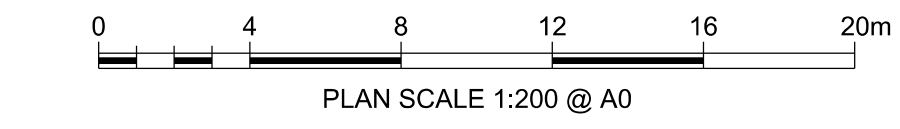




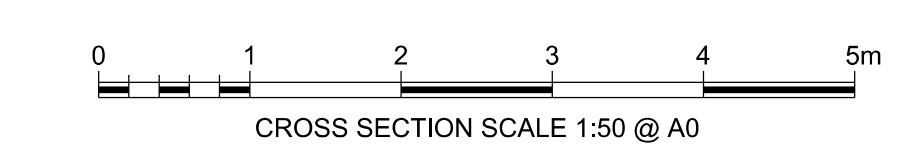
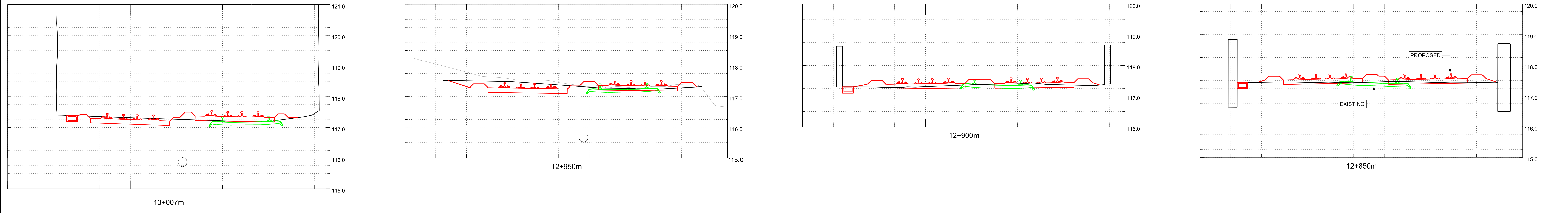
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CROSS SECTIONS - SCALE 1:50



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

FIT FOR INFORMATION S2



Contractor(s)



Project METROWEST PHASE 1

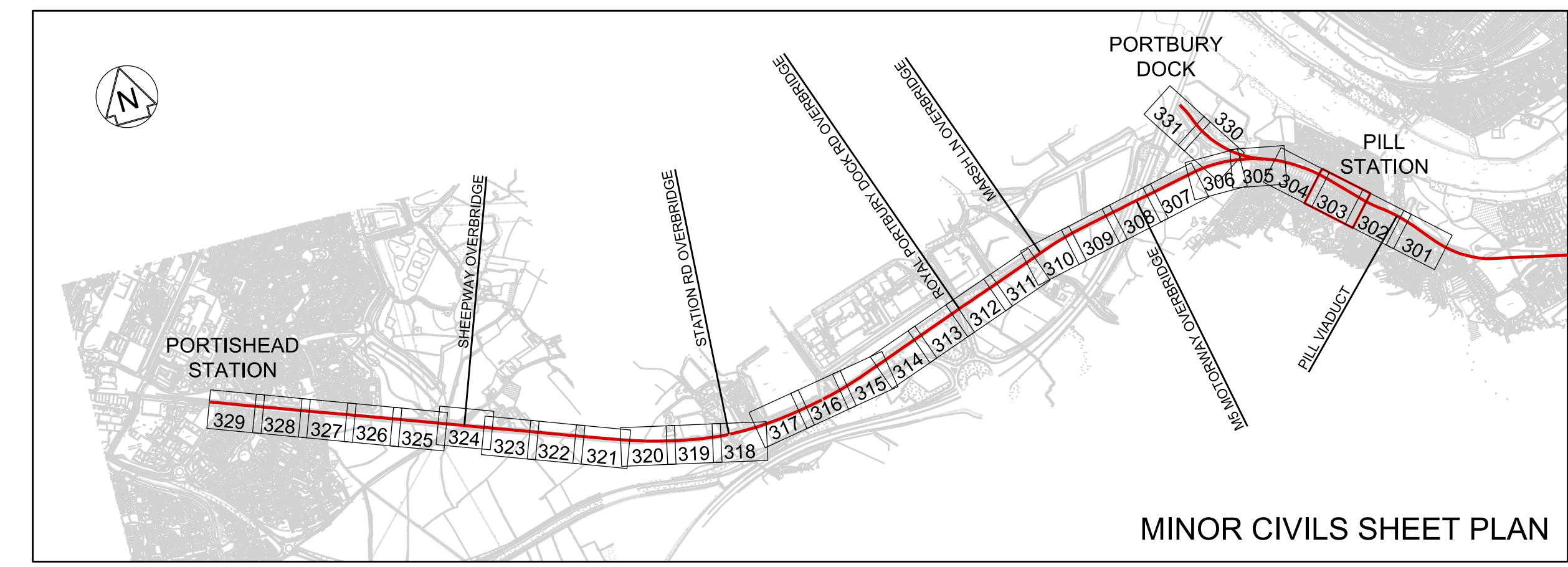
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DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.12830m TO CH.13030m

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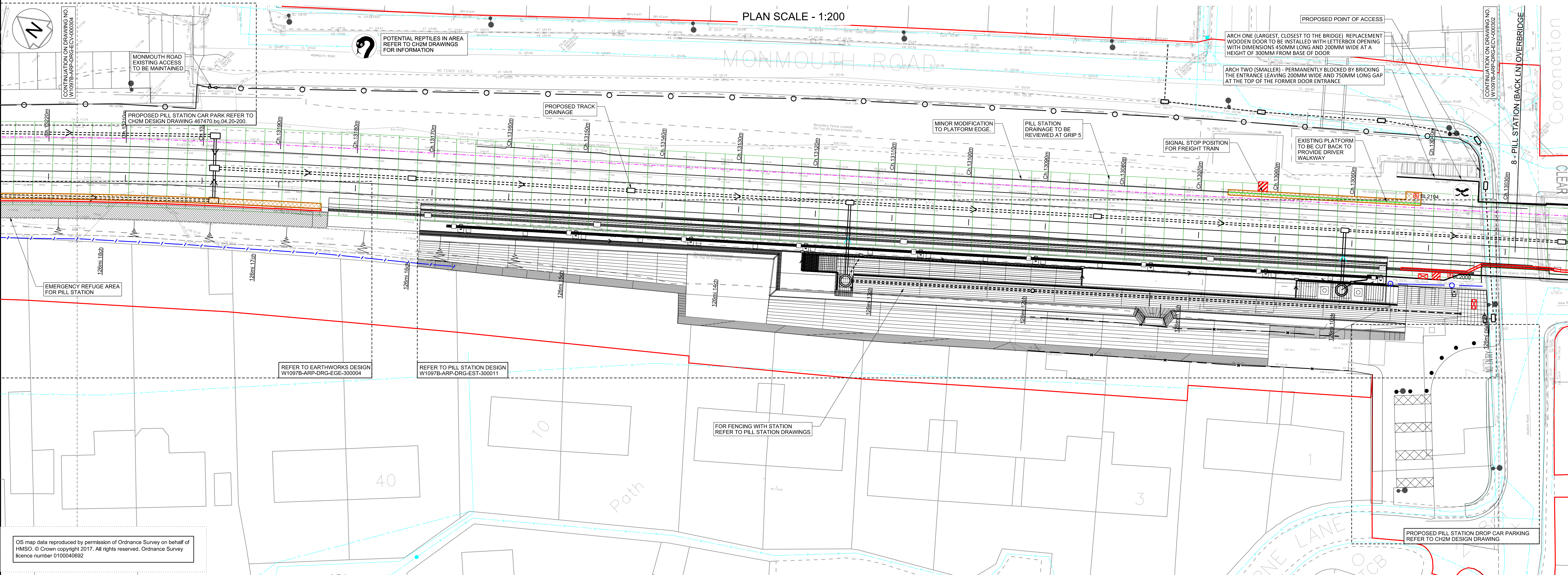
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Drawing Number W1097B-ARP-DRG-ECV-000302 A03  
Sheet 2 of 31  
Revision

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	--- ---	MINOR EARTHWORKS RETAINING STRUCTURE	☒	HIGH VOLTAGE ELECTRICITY - BELOW GROUND	— —	REPTILES	☹
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	--- ---	EARTHWORKS STRUCTURE	☒	LOW VOLTAGE ELECTRICITY - BELOW GROUND	— —	GREAT CRESTED NEWT	☹
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	--- ---	NOISE BARRIER	☒	HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	— —	BIRD BOX (PROPOSED)	☹
PROPOSED FENCE GRADE I	--- ---	DEVELOPMENT CONSENT ORDER (DCO)	☒	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	— —	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	▨
PROPOSED FENCE GRADE II	--- ---	LAND BOUNDARY	☒	GPSS PIPELINE	— —	WOODLAND TO BE PLANTED DURING CONSTRUCTION	▨
PROPOSED FENCE GRADE III	--- ---	CONTINUOUS POSITION OF SAFETY	☒	MEDIUM PRESSURE GAS MAIN	— —	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	▨
PROPOSED TROUGHING	---	AUTHORISED WALKING ROUTE	☒	HIGH PRESSURE GAS MAIN	— —	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	▨
EXISTING TROUGHING	---	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒	BT CABLE - BELOW GROUND	— —		
REMOVED TROUGHING	---	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	— —		
EXISTING TROUGHING MODIFIED/REPLACED PROPOSED UNDER TRACK CROSSING (UTX)	---			CABLE & WIRELESS	— —		
EXISTING UNDER TRACK CROSSING (UTX)	---			VERIGIN MEDIA CABLE - BELOW GROUND	— —		
REMOVED UNDER TRACK CROSSING (UTX)	---			VERIZON BACKBONE DUCT - BELOW GROUND	— —		
				EXISTING DITCHES TO BE RETAINED/REPLACED	— —		

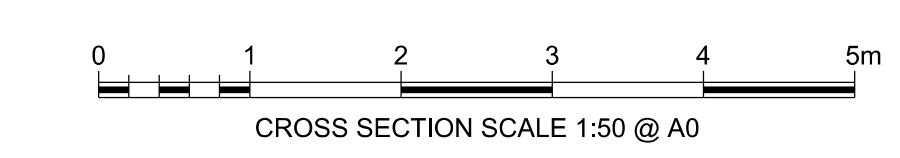
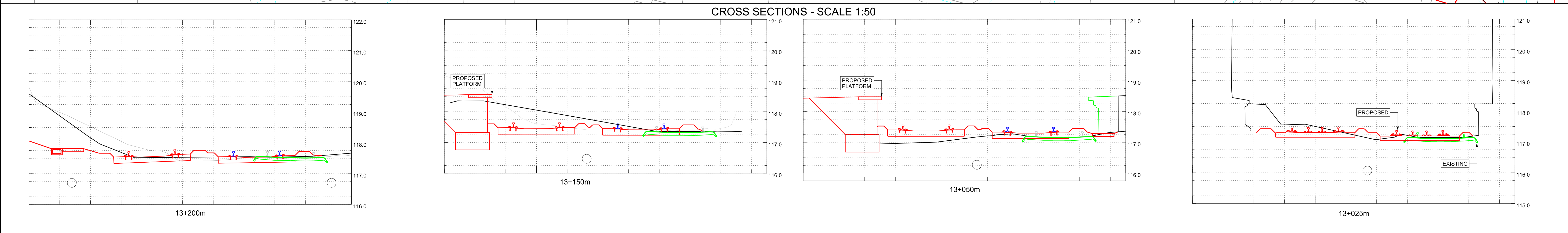
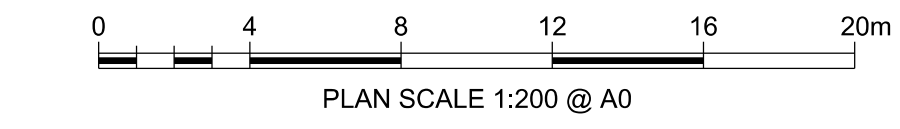




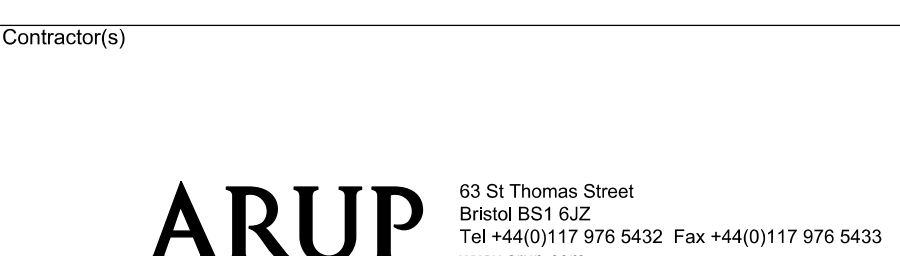
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A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev.	Date	Description of Revisions	Drawn	Chkd	Appr.
Sheet	FIT FOR INFORMATION			Submittal	S2



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	---	MINOR EARTHWORKS RETAINING STRUCTURE	☒	HIGH VOLTAGE ELECTRICITY - BELOW GROUND	---	REPTILES	☹
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	---	EARTHWORKS STRUCTURE	☒	LOW VOLTAGE ELECTRICITY - BELOW GROUND	---	GREAT CRESTED NEWT	☹
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	---	NOISE BARRIER	☒	HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	---	BIRD BOX (PROPOSED)	☹
PROPOSED FENCE GRADE I	---	DEVELOPMENT CONSENT ORDER (DCO)	☒	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	---	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	☹
PROPOSED FENCE GRADE II	---	LAND BOUNDARY	☒	GPSS PIPELINE	---	WOODLAND TO BE PLANTED DURING CONSTRUCTION	☹
PROPOSED FENCE GRADE III	---	CONTINUOUS POSITION OF SAFETY	☒	MEDIUM PRESSURE GAS MAIN	---	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	☹
PROPOSED TROUHING	---	AUTHORISED WALKING ROUTE	☒	HIGH PRESSURE GAS MAIN	---	HERBAGE/TREES TO BE PLANTED DURING CONSTRUCTION	☹
EXISTING TROUHING	---	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒	BT CABLE - BELOW GROUND	---		
REMOVED TROUHING	---	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	---		
EXISTING TROUHING MODIFIED/REPLACED	---			CABLE & WIRELESS	---		
PROPOSED UNDER TRACK CROSSING (UTX)	---			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	---		

Project: METROWEST PHASE 1

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

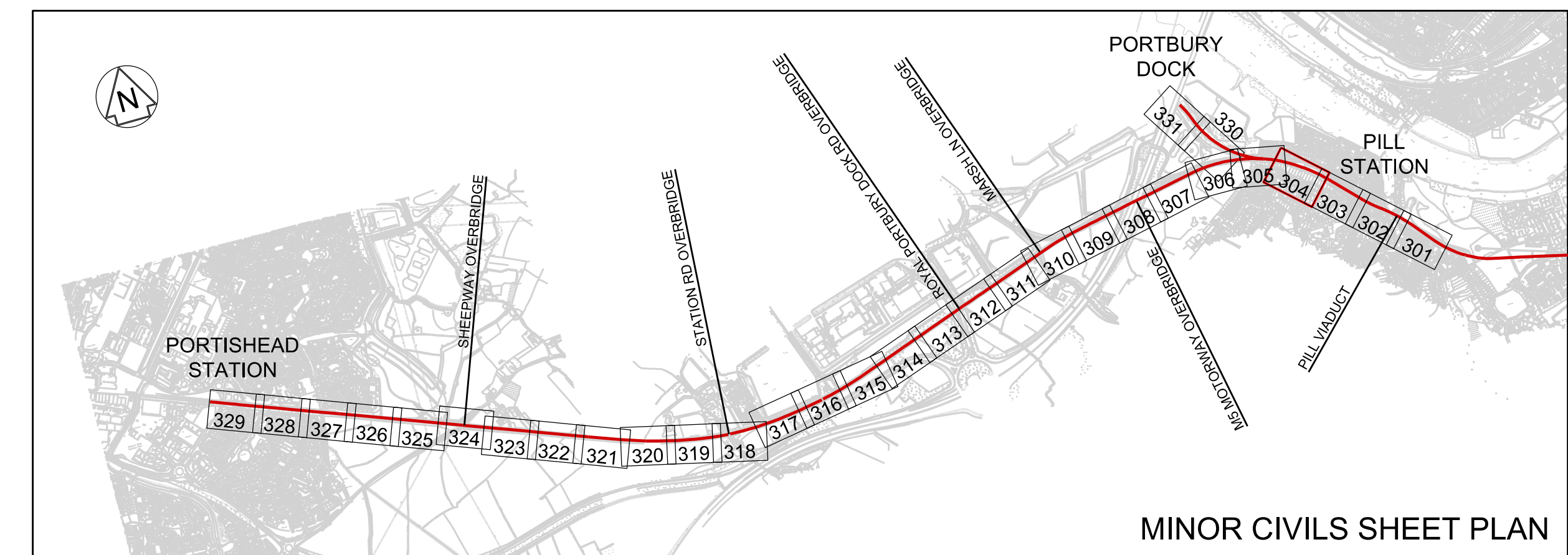
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Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

Scale(s): 1:200  
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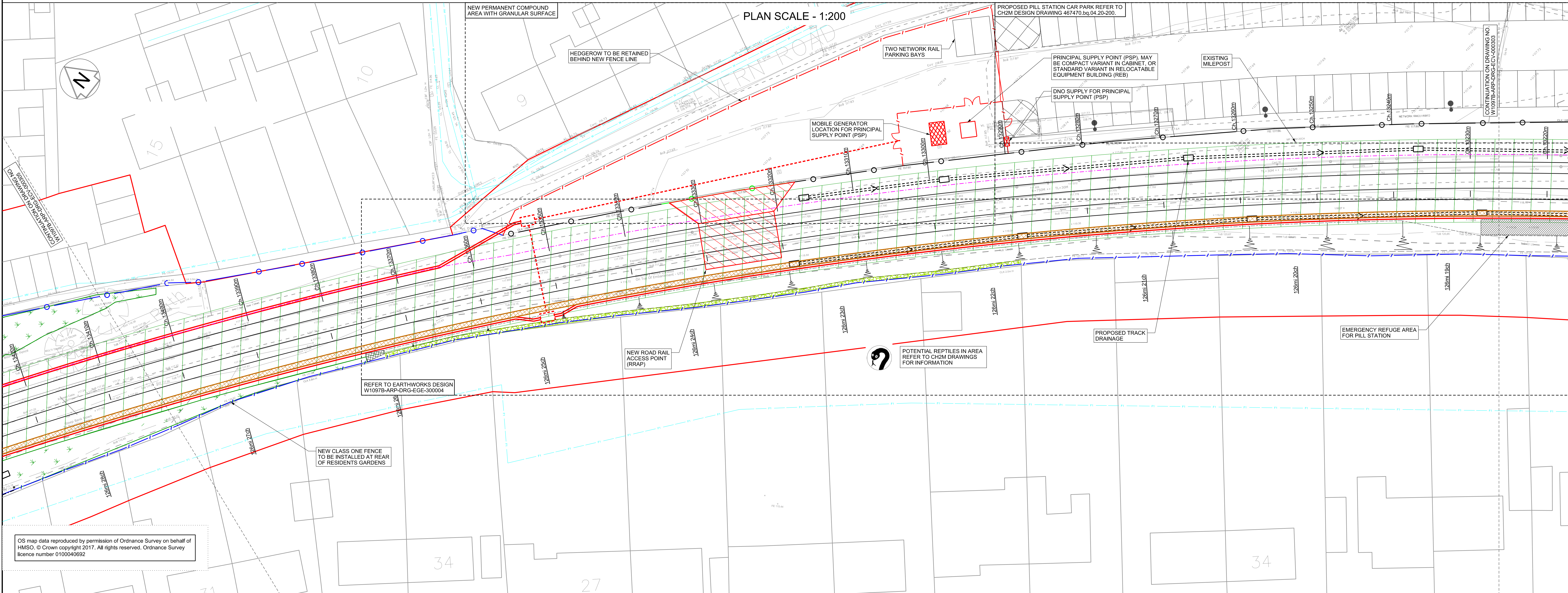
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Revision:

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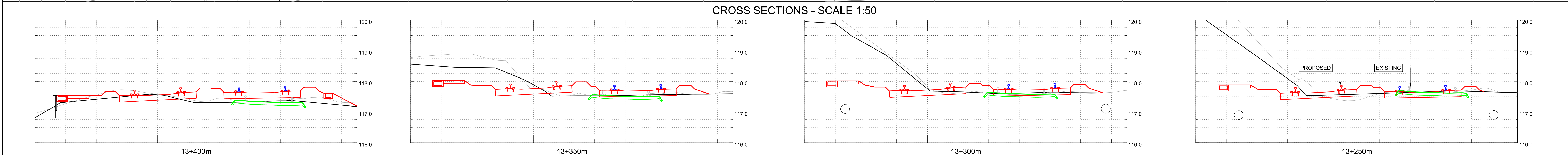
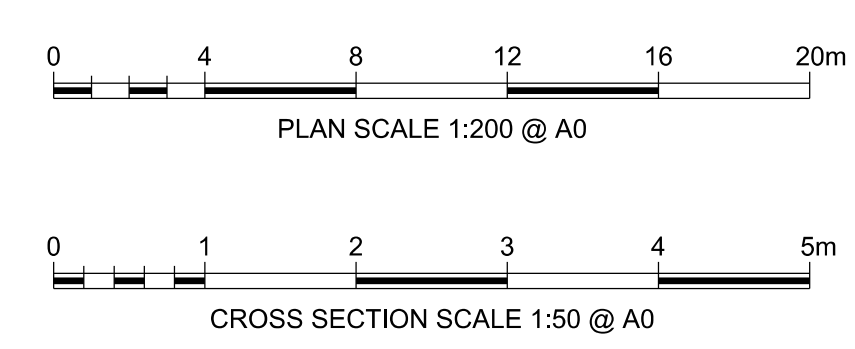




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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
SHEETS					
FIT FOR INFORMATION					Subsidiary
S2					



Contractor(s)



Project METROWEST PHASE 1

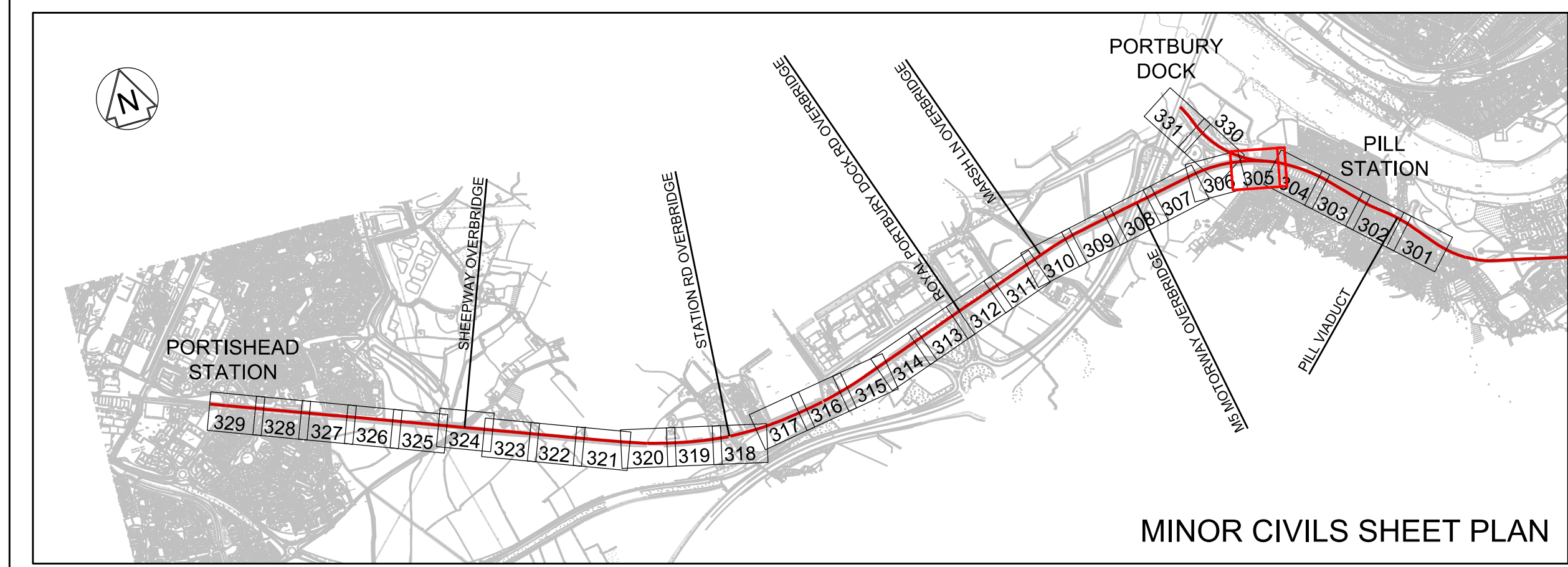
Drawing Title  
DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.13220m TO CH.13420m

Designed	J. BACINSKI	Signed		Date	24/07/19
Drawn	J. BACINSKI	Signed		Date	24/07/19
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Approved	R. SNELL	Signed		Date	24/07/19
Scale(s)	1:200	ELR & Measo			
Alternative Reference	1:200	POD 126M 19CH			

Drawing Number W1097B-ARP-DRG-ECV-000304 A03  
Sheet 4 of 31  
Revision

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	☹
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EXISTING FENCE REMOVED	— / — / —	EXISTING SIGNAL TO BE REMOVED	⊙	SEWER SURFACE	—	OTTERS	☹
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EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	NOISE BARRIER	☒	HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	—	BIRD BOX (PROPOSED)	☹
PROPOSED FENCE GRADE I	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)	☒	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	—	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	☹
PROPOSED FENCE GRADE II	— / — / —	LAND BOUNDARY	☒	GPSS PIPELINE	—	WOODLAND TO BE PLANTED DURING CONSTRUCTION	☹
PROPOSED FENCE GRADE III	— / — / —	CONTINUOUS POSITION OF SAFETY	☒	MEDIUM PRESSURE GAS MAIN	—	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	☹
PROPOSED TROUGHING	— / — / —	AUTHORISED WALKING ROUTE	☒	HIGH PRESSURE GAS MAIN	—	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	☹
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REMOVED UNDER TRACK CROSSING (UTX)	— / — / —			VIRGIN MEDIA CABLE - BELOW GROUND	—		
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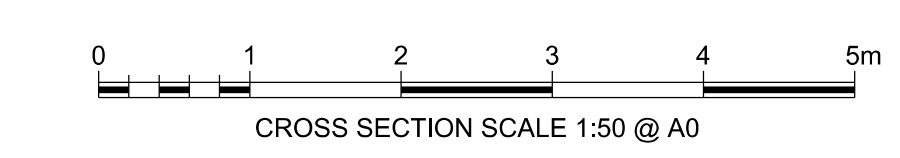
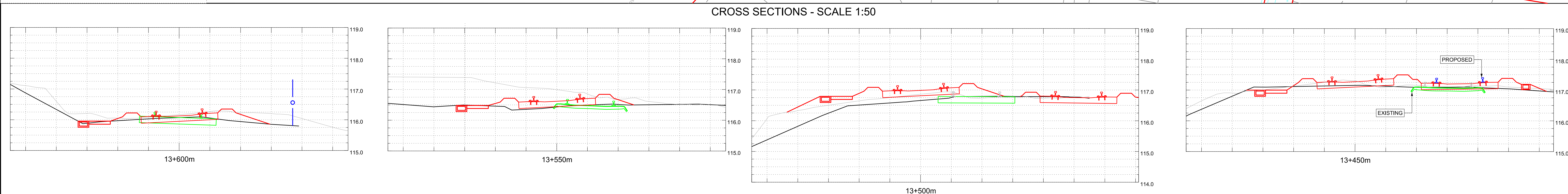
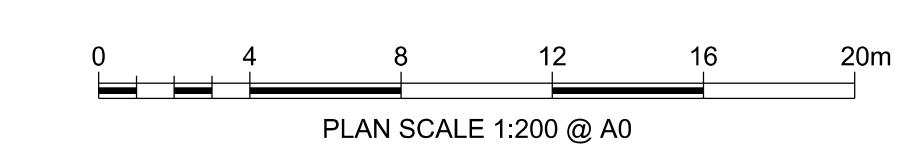




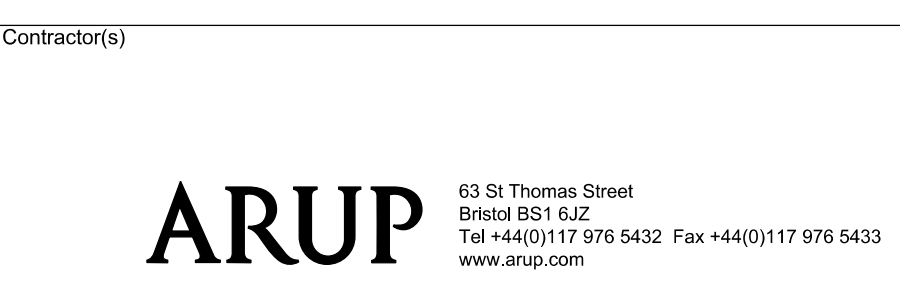
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A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
Rev.	Date	Description of Revisions	Drawn	Chkd	Appr.
FIT FOR INFORMATION			S2		



MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	WATER MAIN	— / — / —	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURED FIBRE CABLE	— / — / —	WATER VOLES	— / — / —
EXISTING FENCE GRADE II	— / — / —	FOUL SEWER	— / — / —	NOTE: EQUIPMENT SIZE NOT SHOWN TO SCALE		BATS	— / — / —
EXISTING FENCE GRADE III	— / — / —	RISING MAIN	— / — / —	TELEPHONE (PROPOSED)	— / — / —	DORMICE	— / — / —
EXISTING FENCE REMOVED	— / — / —	SEWER SURFACE	— / — / —	BOX ON POST (PROPOSED)	— / — / —	OTTERS	— / — / —
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	LOW VOLTAGE ELECTRICITY - BELOW GROUND	— / — / —	FIBRE JOINT (PROPOSED)	— / — / —	REPTILES	— / — / —
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	— / — / —	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	— / — / —	BT CABLE - BELOW GROUND	— / — / —	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	— / — / —	CABLE & WIRELESS	— / — / —	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	— / — / —	VIRGIN MEDIA CABLE - BELOW GROUND	— / — / —			WOODLAND TO BE PLANTED DURING CONSTRUCTION	— / — / —
PROPOSED FENCE GRADE III	— / — / —	VERIZON BACKBONE DUCT - BELOW GROUND	— / — / —			GRASSLAND TO BE PLANTED DURING CONSTRUCTION	— / — / —
PROPOSED TROUING	— / — / —	EXISTING DITCHES TO BE RETAINED/REPLACED	— / — / —			HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	— / — / —
REMOVED TROUING	— / — / —						
EXISTING TROUING MODIFIED/REPLACED	— / — / —						
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —						
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						

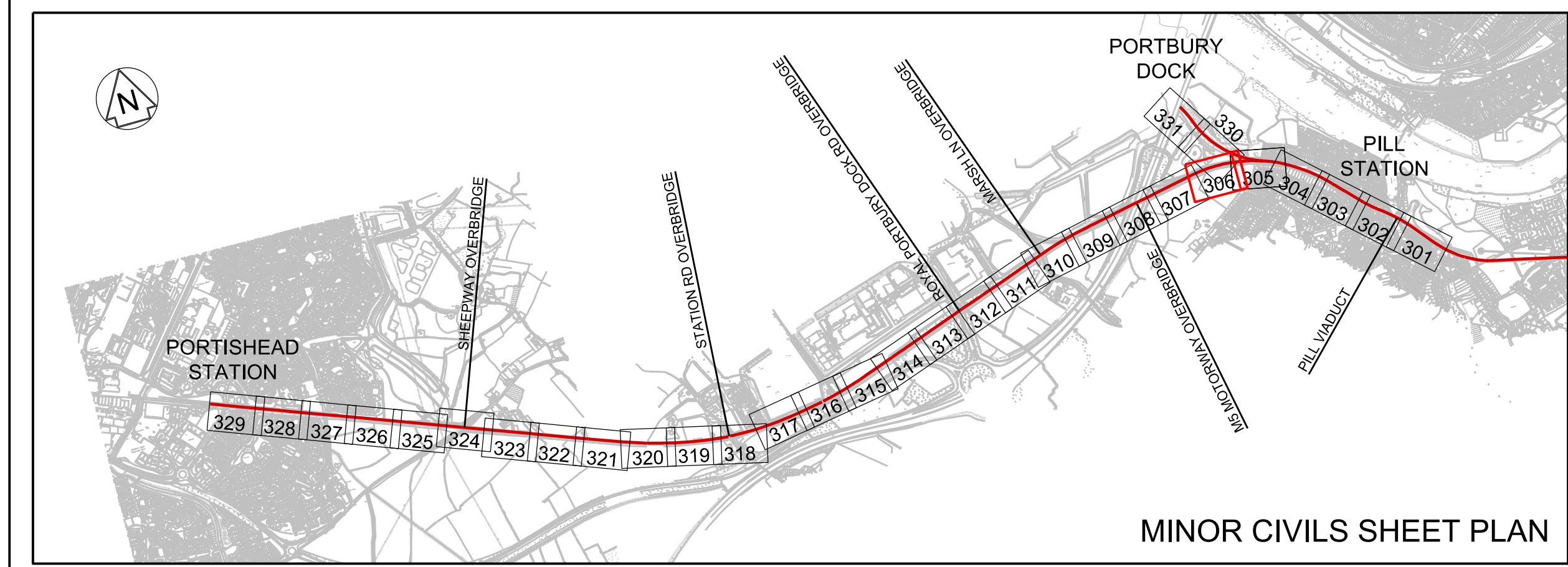
Project: METROWEST PHASE 1

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

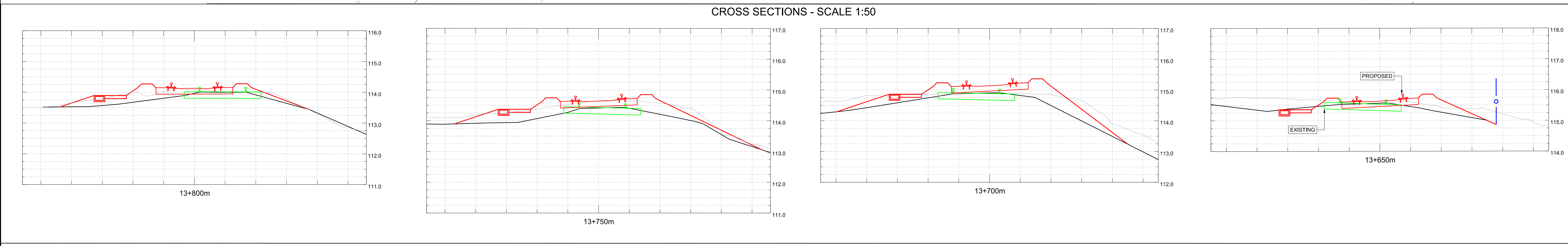
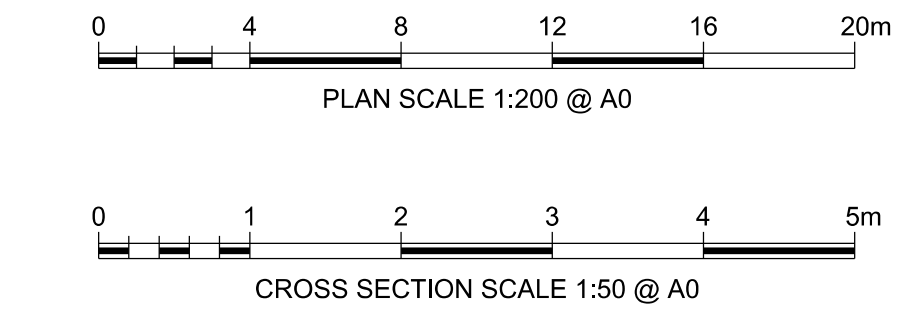
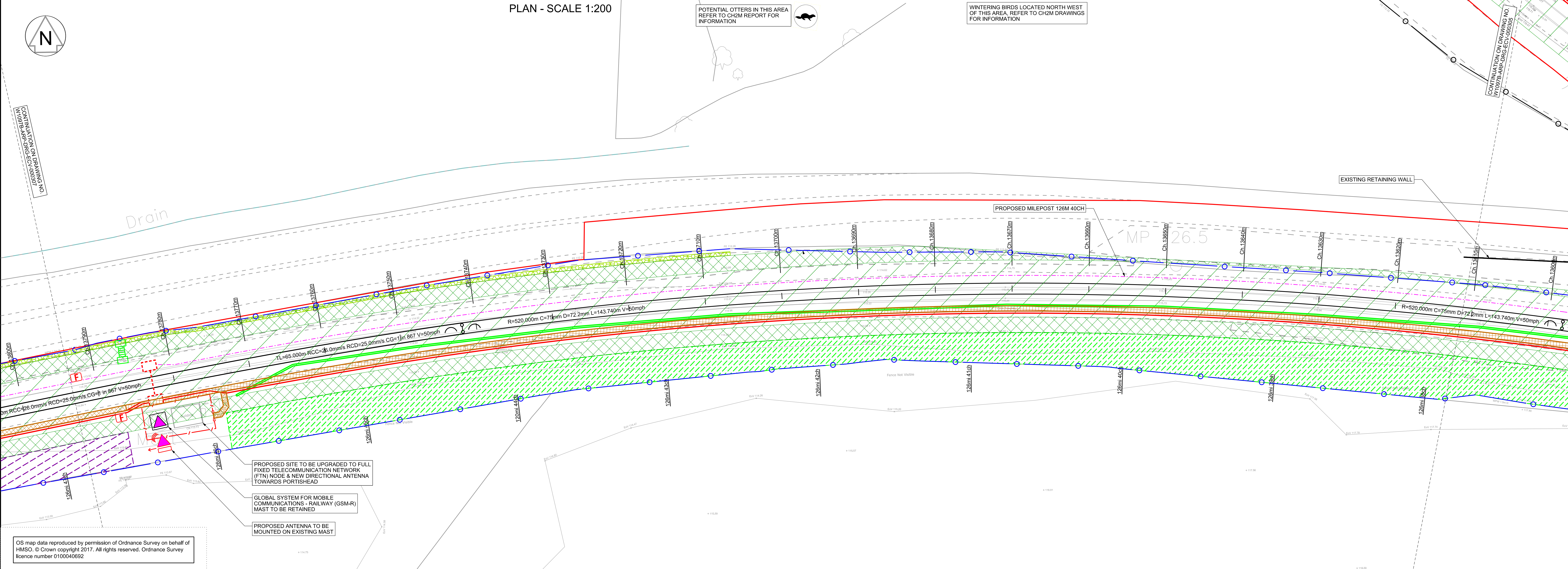
Designed	J. BACINSKI	Signed		Date	24/07/19
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Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

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Sheet: 5 of 31

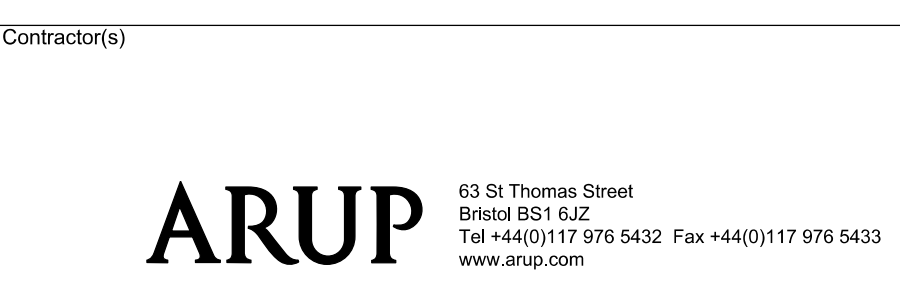




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A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS



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	— ○ —	PROPOSED CABINET TO BE REMOVED/RELOCATED	☒	RIISING MAIN	—	DORMICE	☺
EXISTING FENCE REMOVED	— ○ —	EXISTING CABINET LOCATION	☒	SEWER SURFACE	—	OTTERS	☺
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— / — / —	EXISTING SIGNAL TO BE REMOVED	☒	LOW VOLTAGE ELECTRICITY - BELOW GROUND	—	REPTILES	☺
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— / — / —	EXISTING CABINET LOCATION	☒	LOW VOLTAGE ELECTRICITY - ABOVE GROUND	—	GREAT CRESTED NEWT	☺
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— / — / —	MINOR EARTHWORKS RETAINING STRUCTURE	☒	GRSS PIPELINE	—	BIRD BOX (PROPOSED)	☺
PROPOSED FENCE GRADE I	— / — / —	EARTHWORKS STRUCTURE	☒	LOW PRESSURE GAS MAIN	—	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	☺
PROPOSED FENCE GRADE II	— / — / —	NOISE BARRIER	☒	MEDIUM PRESSURE GAS MAIN	—	WOODLAND TO BE PLANTED DURING CONSTRUCTION	☺
PROPOSED FENCE GRADE III	— / — / —	DEVELOPMENT CONSENT ORDER (DCO)	☒	HIGH PRESSURE GAS MAIN	—	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	☺
PROPOSED TROUHING	— / — / —	LAND BOUNDARY	☒	BT CABLE - BELOW GROUND	—	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	☺
REMOVED TROUHING	— / — / —	CONTINUOUS POSITION OF SAFETY	☒	BT CABLE ABOVE GROUND	—		
EXISTING TROUHING MODIFIED/REPLACED	— / — / —	AUTHORISED WALKING ROUTE	☒	CABLE & WIRELESS	—		
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒	VIRGIN MEDIA CABLE - BELOW GROUND	—		
REMOVED 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	☒	VERIZON BACKBONE DUCT - BELOW GROUND	—		
				EXISTING DITCHES TO BE RETAINED/REPLACED	—		

Project: METROWEST PHASE 1

Contractor(s):

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

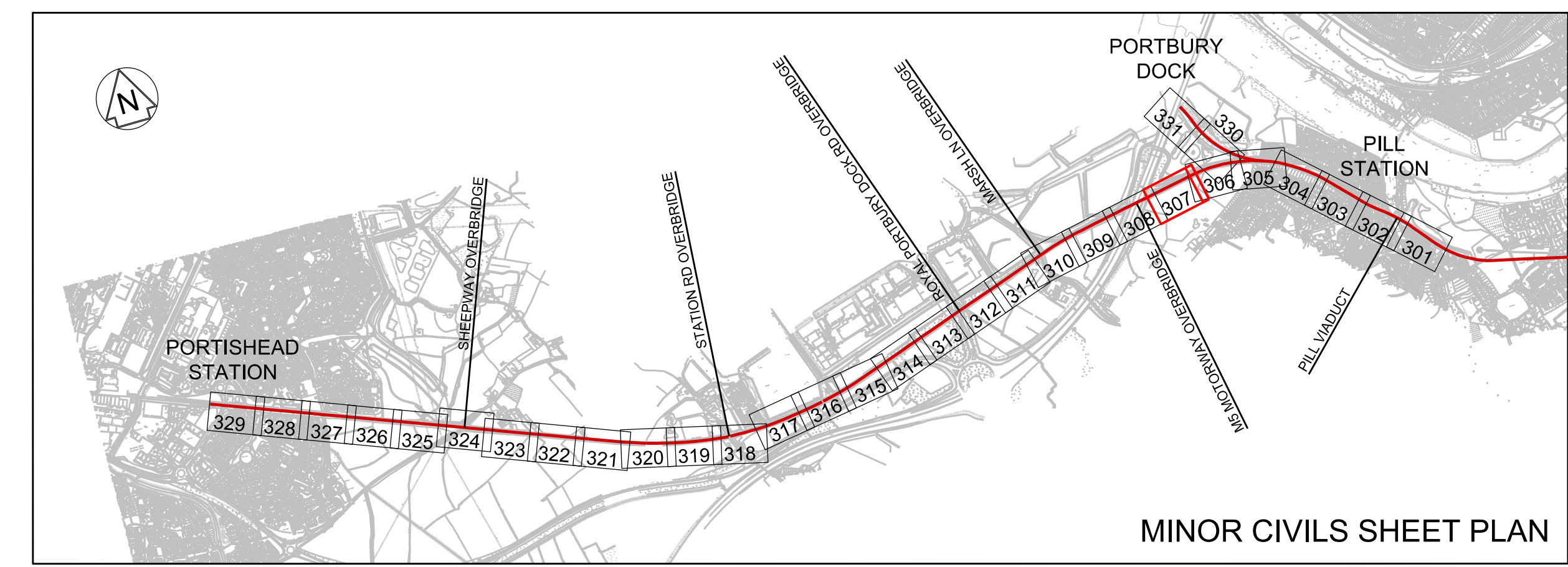
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GRIP 4 MINOR CIVILS  
CH.13600m TO CH.13800m

Design	Drawn	Checked	Approved	Scale(s)	Alternative Reference	Sheet
J. BACINSKI	J. BACINSKI	R. SNELL	R. SNELL	1:200	POD 126M 38CH	6 of 31
						Revision

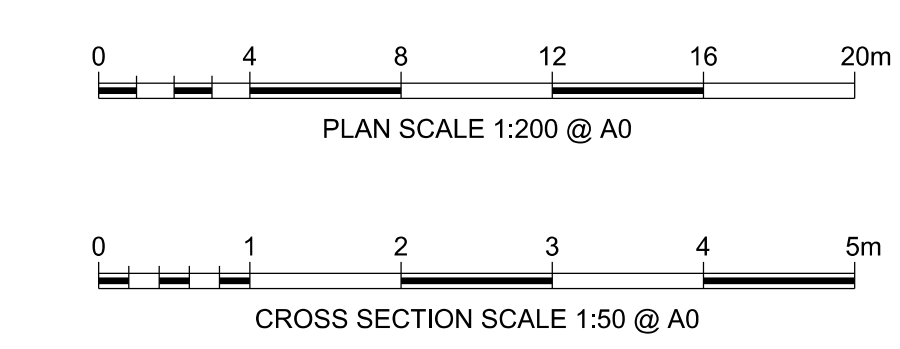
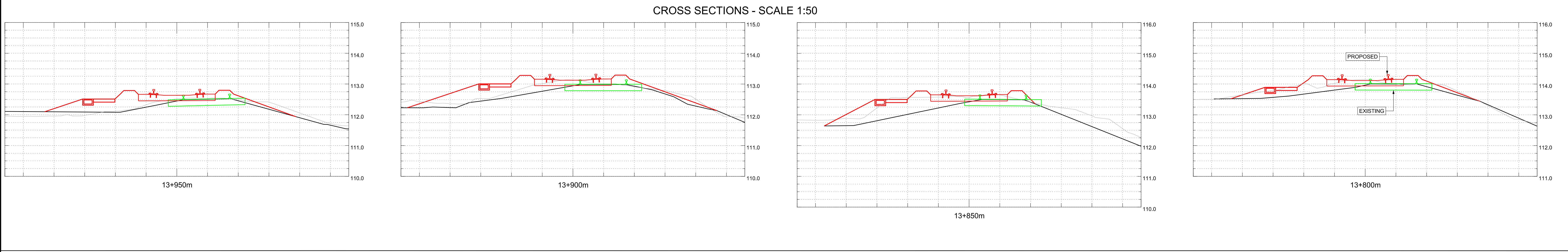
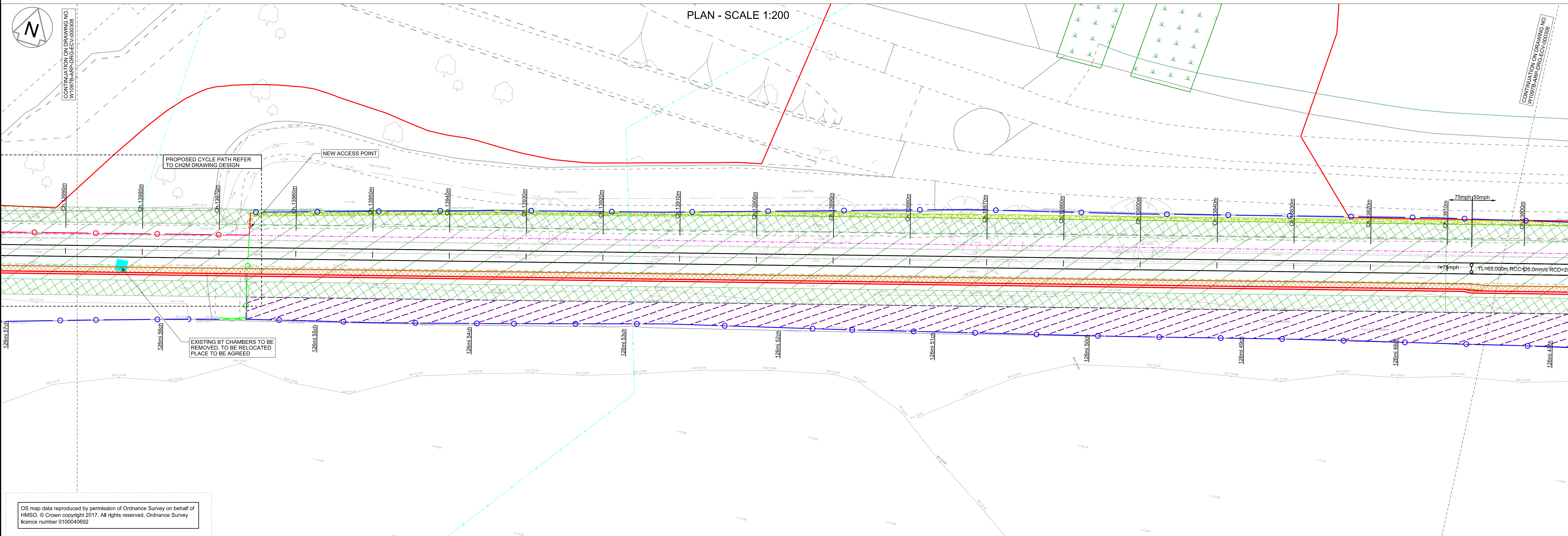
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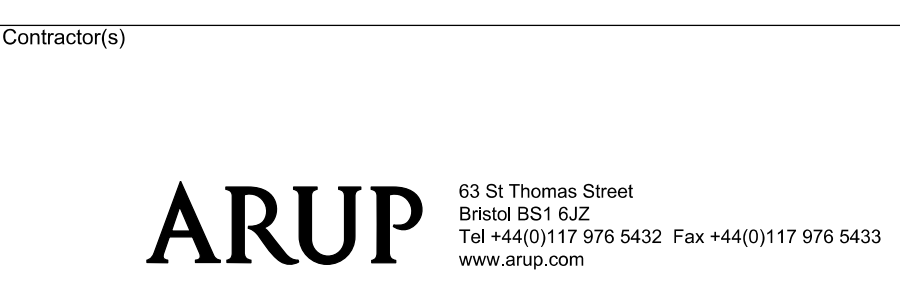




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A02	03/05/19	FOR DCO PLANNING APPLICATION		JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION		JB	RS	RS



Project: METROWEST PHASE 1

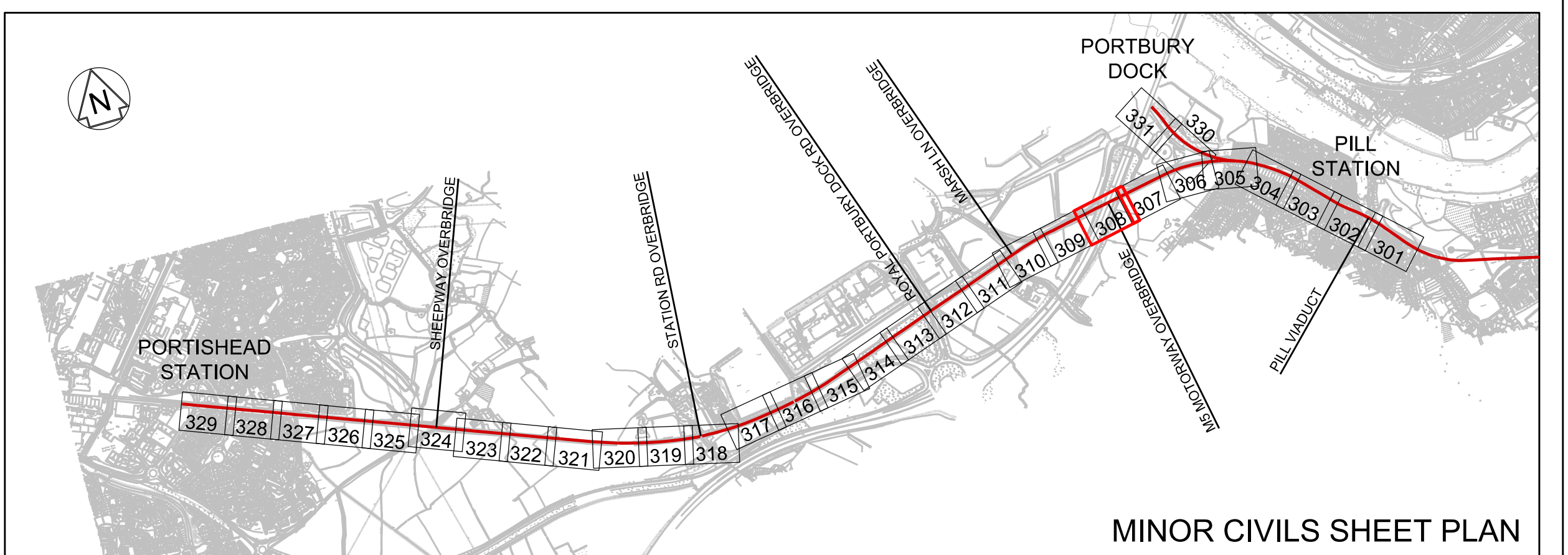
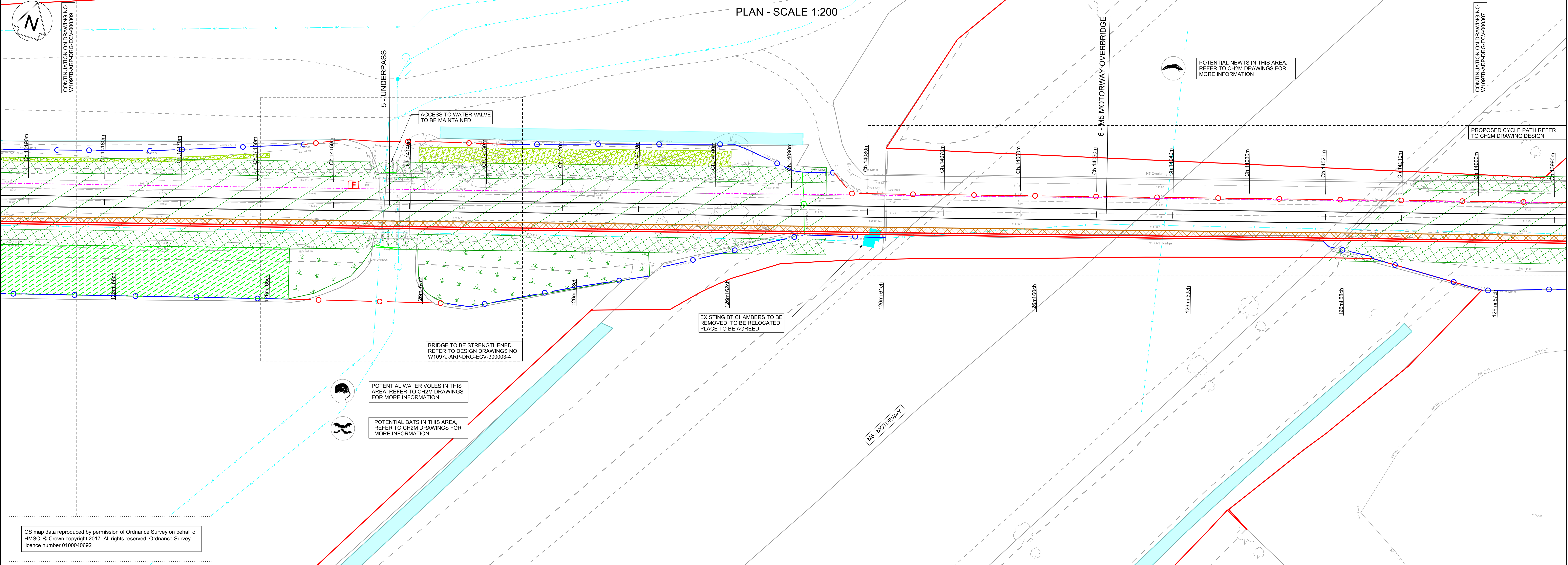
Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.13800m TO CH.13990m

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 126M 47CH  
Drawing Number: W1097B-ARP-DRG-ECV-000307 | A03  
Sheet: 7 of 31  
Revision

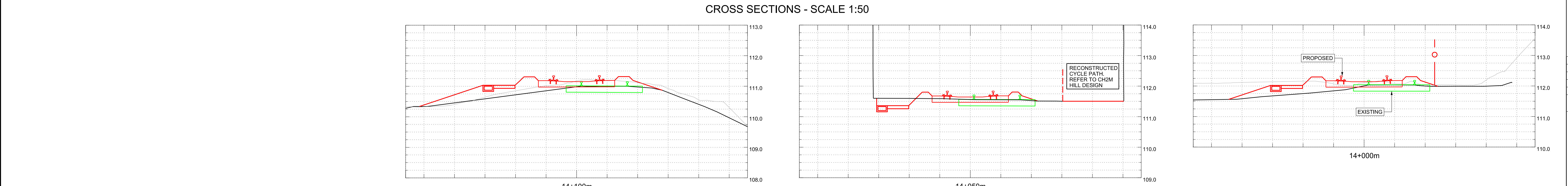
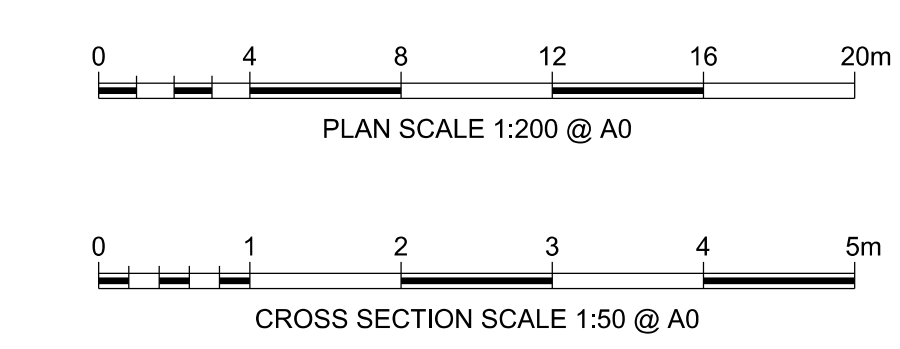
MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)	☒	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMOURED FIBRE CABLE	— · — · — ·	WATER VOLES	🦉
EXISTING FENCE GRADE II	— / — / —	PROPOSED SIGNAL (NOT 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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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
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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

NetworkRail logo

Contractor: ARUP

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

Project: METROWEST PHASE 1

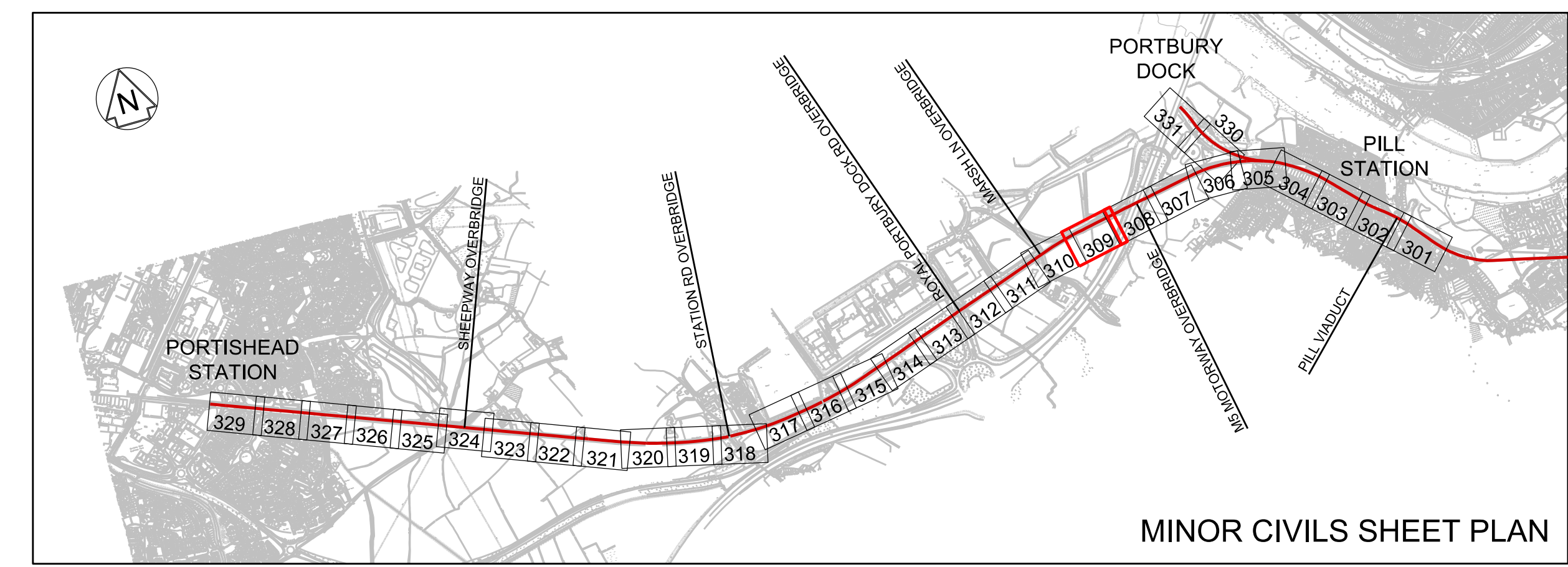
Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.13990m TO CH.14190m

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

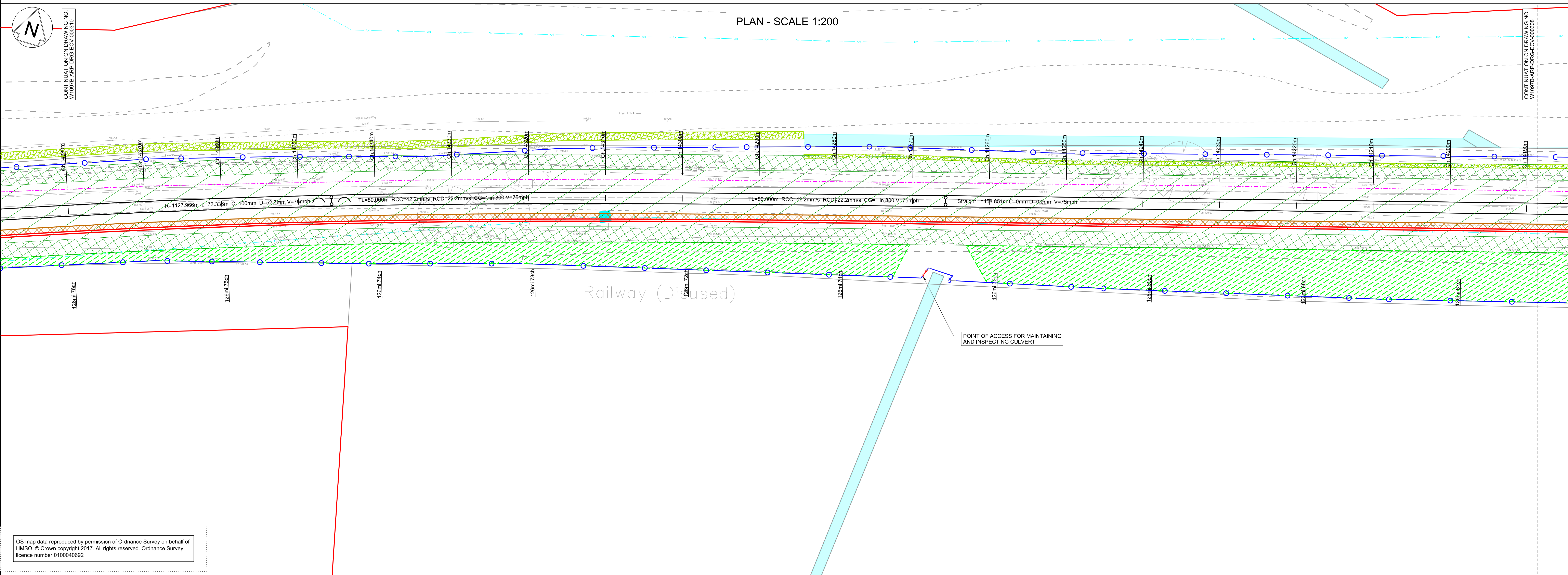
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Alternative Reference: POD 126M 57CH  
Drawing Number: W1097B-ARP-DRG-ECV-000308 A03  
Sheet: 8 of 31  
Revision:

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	□	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)	□	GROSS PIPELINE	—	WOODLAND TO BE PLANTED DURING CONSTRUCTION	□
PROPOSED FENCE GRADE III	— / — / —	LAND BOUNDARY	□	LOW PRESSURE GAS MAIN	—	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	□
PROPOSED TROUING	— / — / —	CONTINUOUS POSITION OF SAFETY	□	MEDIUM PRESSURE GAS MAIN	—	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	□
EXISTING TROUING	— / — / —	AUTHORISED WALKING ROUTE	□	HIGH PRESSURE GAS MAIN	—		
REMOVED TROUING	— / — / —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	□	BT CABLE - BELOW GROUND	—		
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	□	CABLE & WIRELESS	—		
PROPOSED UNDER TRACK CROSSING (UTX)	— / — / —			VIRGIN MEDIA CABLE - BELOW GROUND	—		
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —			VERIZON BACKBONE DUCT - BELOW GROUND	—		
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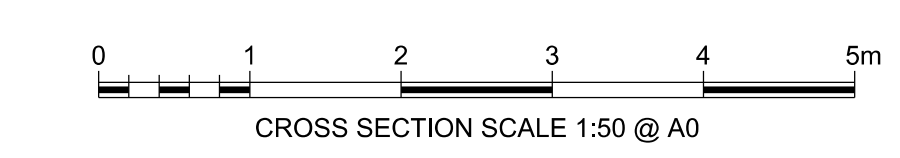
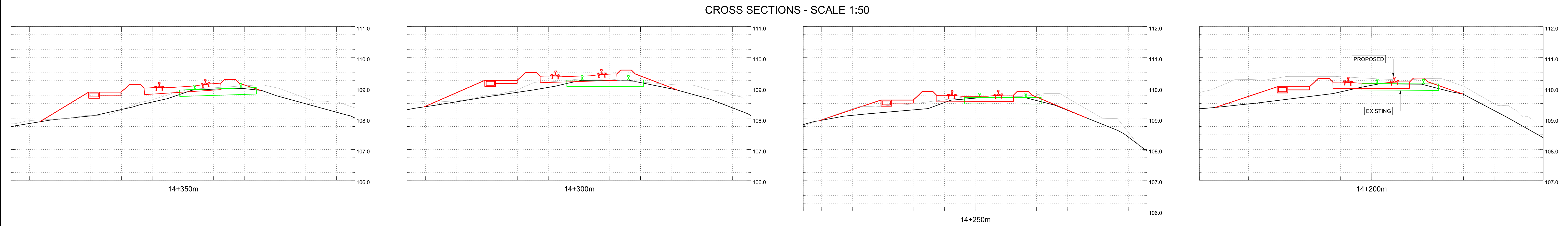
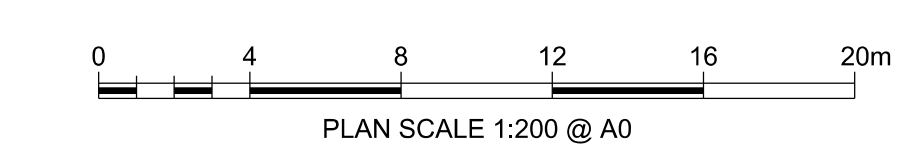




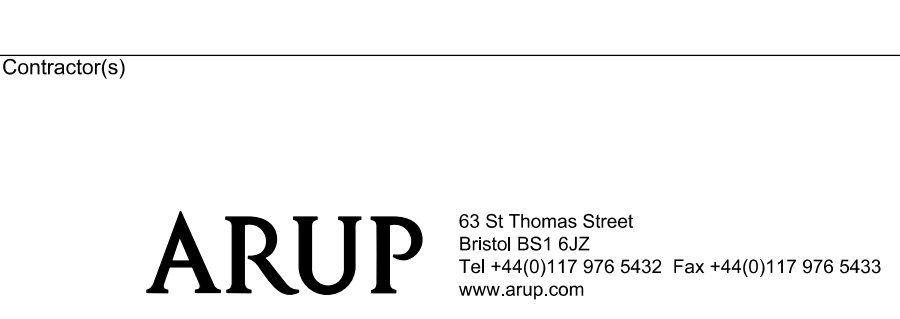
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FIT FOR INFORMATION			Sheets	Drawn	Chkd
			Submittal	Appr.	S2



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	— — —	PROPOSED SIGNAL TO BE REMOVED/RELOCATED	☐	RISING MAIN	— — — — —	DORMICE	🐭
EXISTING FENCE REMOVED	— — —	EXISTING CABINET LOCATION	☒	SEWER SURFACE	— — — — —	OTTERS	🦦
EXISTING FENCE MODIFIED/REPLACED WITH GRADE I FENCE	— — —	EXISTING CABINET LOCATION	☒	SEWER SURFACE	— — — — —	REPTILES	🐍
EXISTING FENCE MODIFIED/REPLACED WITH GRADE II FENCE	— — —	MINOR EARTHWORKS RETAINING STRUCTURE	☒	SEWER SURFACE	— — — — —	GREAT CRESTED NEWT	🦎
EXISTING FENCE MODIFIED/REPLACED WITH GRADE III FENCE	— — —	EARTHWORKS STRUCTURE	☒	SEWER SURFACE	— — — — —	BIRD BOX (PROPOSED)	🏠
PROPOSED FENCE GRADE I	— — —	NOISE BARRIER	☒	SEWER SURFACE	— — — — —	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	🌳
PROPOSED FENCE GRADE II	— — —	DEVELOPMENT CONSENT ORDER (DCO)	☒	SEWER SURFACE	— — — — —	WOODLAND TO BE PLANTED DURING CONSTRUCTION	🌳
PROPOSED FENCE GRADE III	— — —	LAND BOUNDARY	☒	SEWER SURFACE	— — — — —	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	🌳
PROPOSED TROUING	— — —	CONTINUOUS POSITION OF SAFETY	☒	SEWER SURFACE	— — — — —	HEGGE/TREES TO BE PLANTED DURING CONSTRUCTION	🌳
EXISTING TROUING	— — —	AUTHORISED WALKING ROUTE	☒	SEWER SURFACE	— — — — —		
REMOVED TROUING	— — —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒	SEWER SURFACE	— — — — —		
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	☒	SEWER SURFACE	— — — — —		
PROPOSED UNDER TRACK CROSSING (UTX)	— — —			SEWER SURFACE	— — — — —		
EXISTING UNDER TRACK CROSSING (UTX)	— — —			SEWER SURFACE	— — — — —		
REMOVED UNDER TRACK CROSSING (UTX)	— — —			SEWER SURFACE	— — — — —		

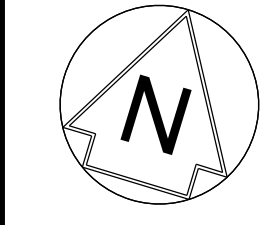
Project: METROWEST PHASE 1

Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.14190m TO CH.14380m

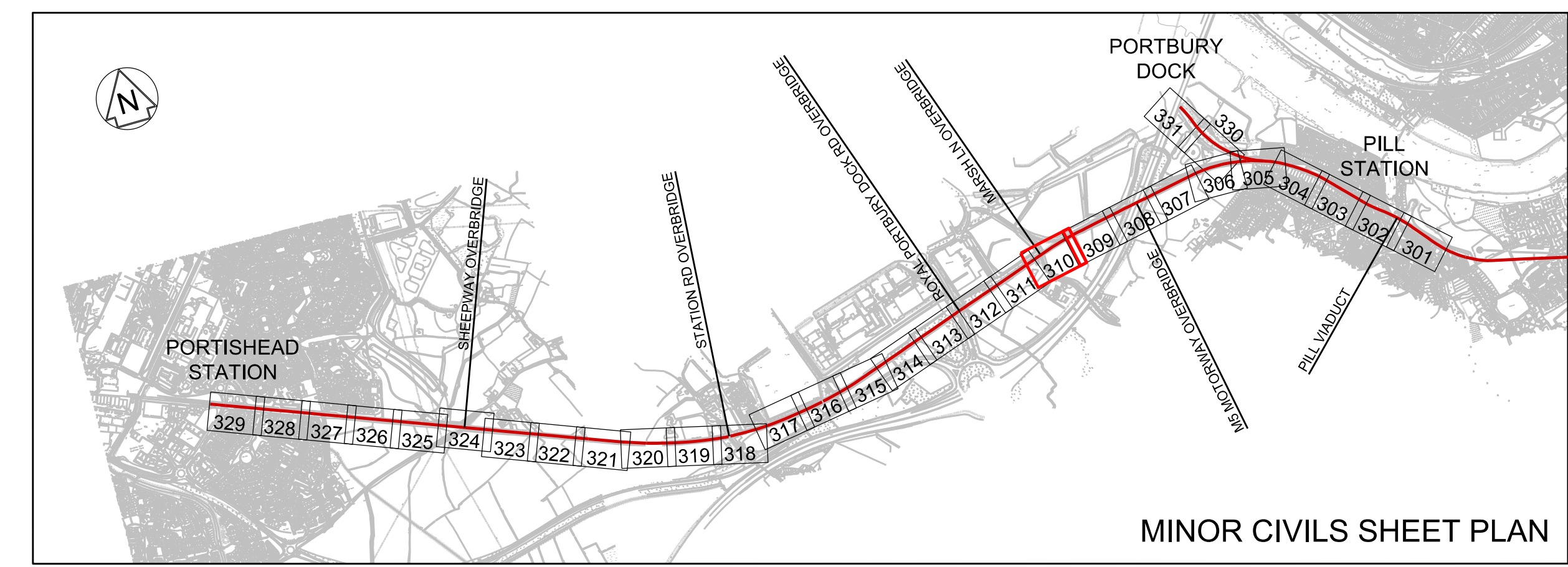
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Checked	R. SNELL	Signed		Date	24/07/19
Approved	R. SNELL	Signed		Date	24/07/19

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Alternative Reference: POD 126M 67CH  
Drawing Number: W1097B-ARP-DRG-ECV-000309 A03  
Revision: 9 of 31

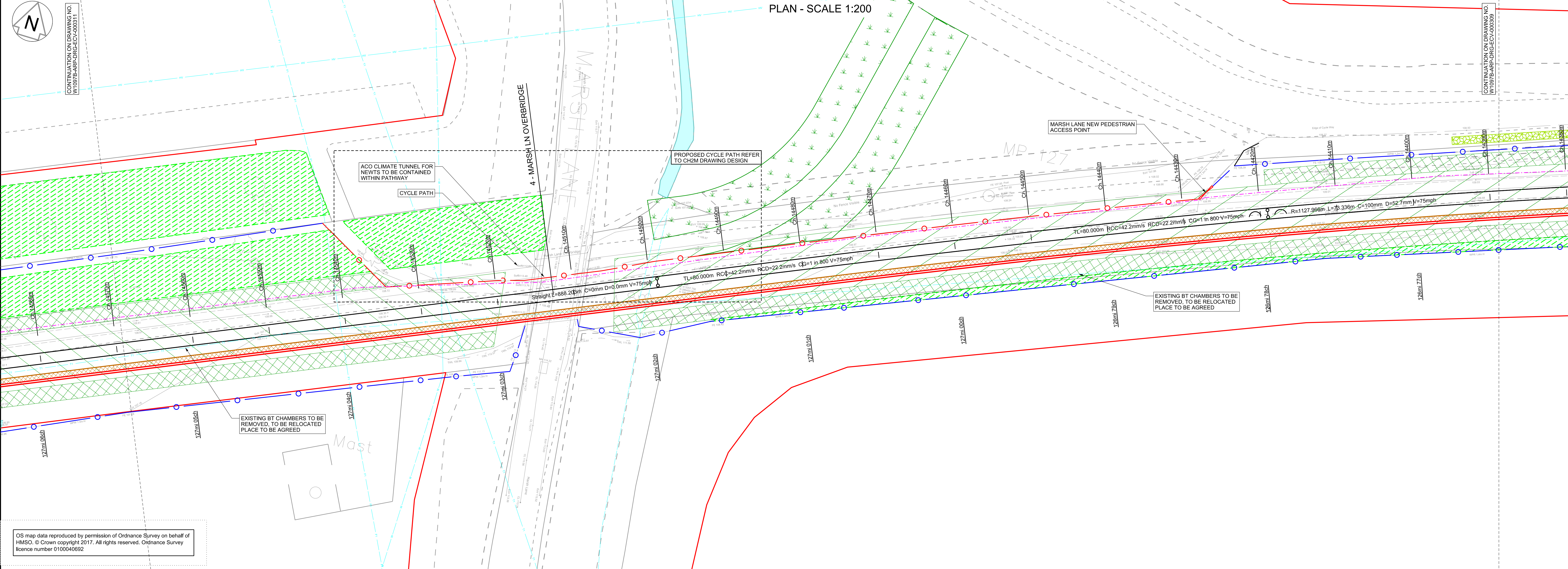




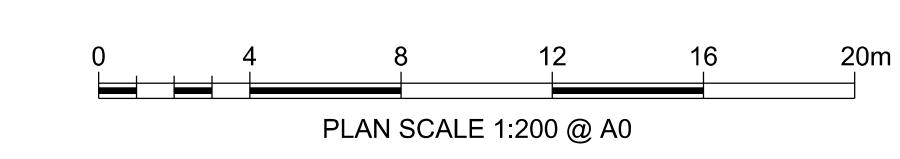
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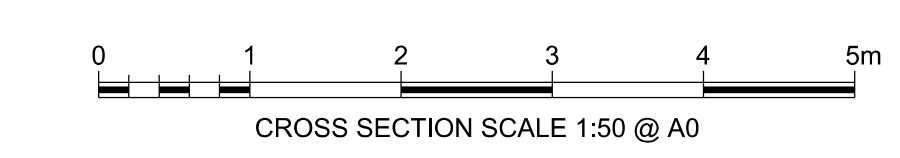
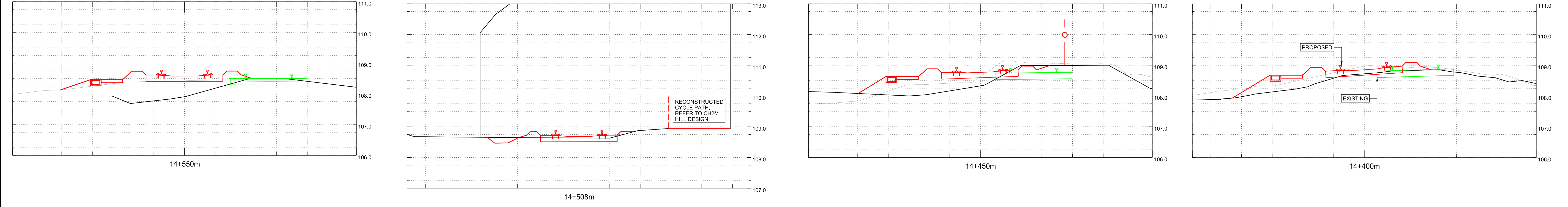
- Legend/Notes
- ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
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  - THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
  - CROSS SECTIONS ARE BASED ON INFORMATION FROM TOPOGRAPHY, LIDAR AND SITE VISIT MEASUREMENTS. CROSS SECTIONS TO BE VERIFIED AT DETAILED DESIGN.
  - CROSS SECTIONS ARE TAKEN FACING INCREASING CHANGING.



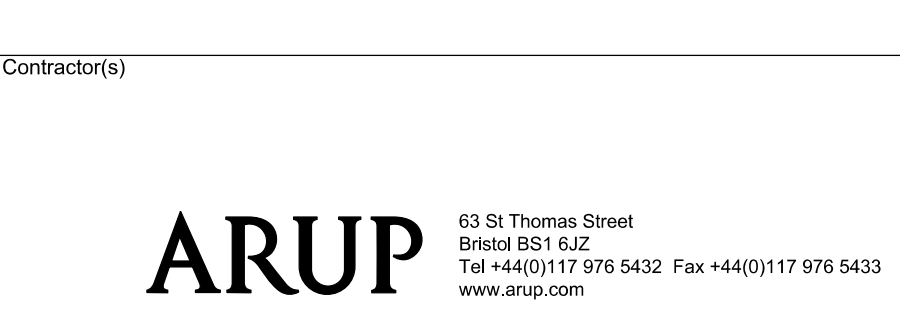
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CROSS SECTIONS - SCALE 1:50



Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Submittal
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	



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	□	GROSS 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 TROUING	— / — / —	CONTINUOUS POSITION OF SAFETY	□	BT CABLE - BELOW GROUND	—	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	▨
REMOVED TROUING	— / — / —	AUTHORISED WALKING ROUTE	□	BT CABLE ABOVE GROUND	—		
EXISTING TROUING 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	—		

Project: METROWEST PHASE 1

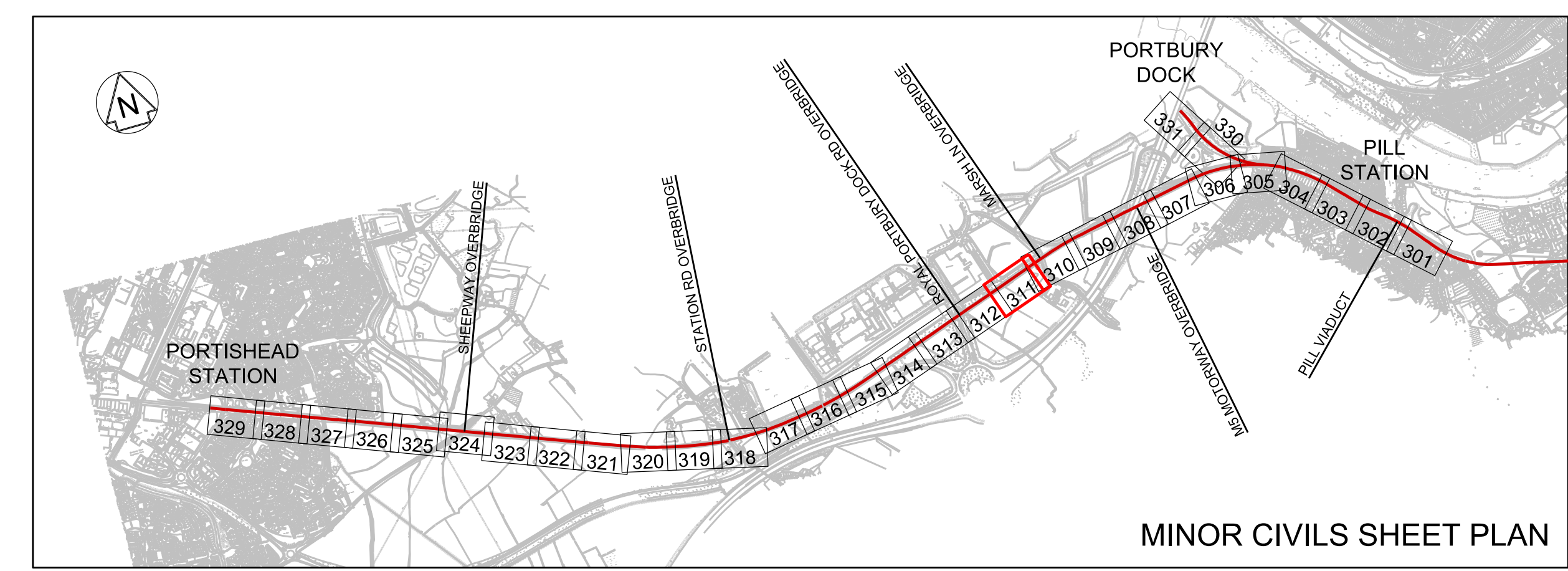
Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.14380m TO CH.14580m

Design	Drawn	Checked	Approved	Scales	Alternative Reference
J. BACINSKI	J. BACINSKI	R. SNELL	R. SNELL	1:200	

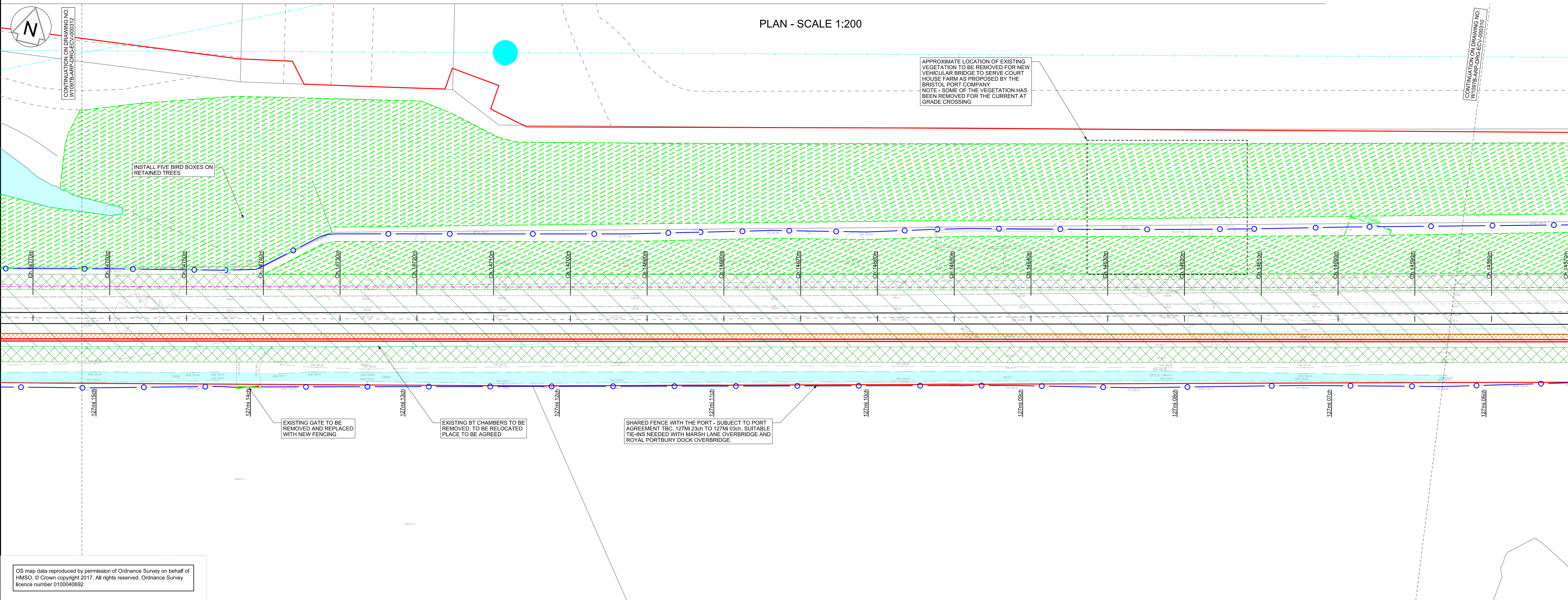
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J. BACINSKI	24/07/19	J. BACINSKI	24/07/19	R. SNELL	24/07/19	R. SNELL	24/07/19

Sheet: 10 of 31  
Drawing Number: W1097B-ARP-DRG-ECV-000310 | A03

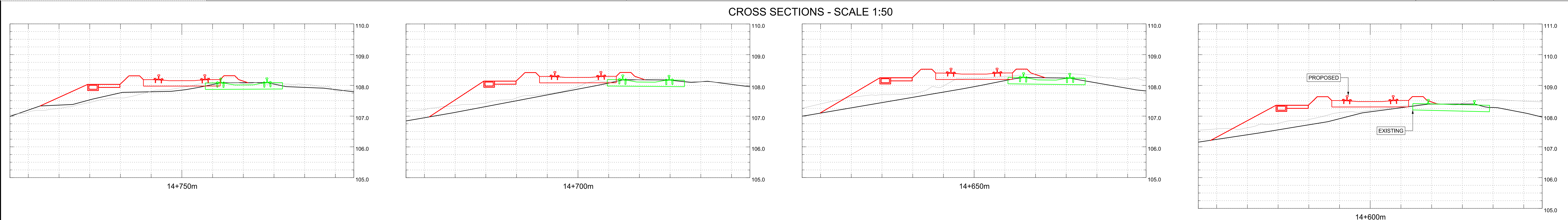
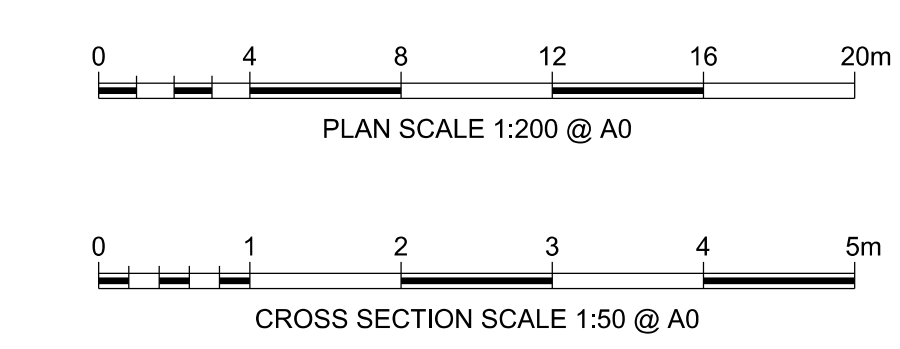




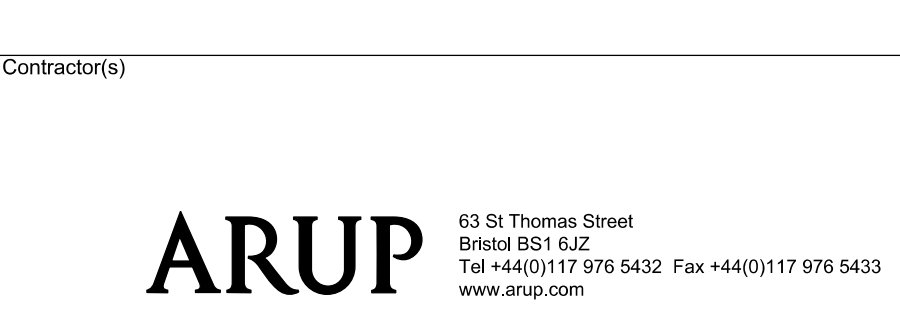
- Legend/Notes
- ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
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  - CHAINAGE DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHAINAGE MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED ALONG THE PROPOSED RAIL CENTRE LINE.
  - THIS DRAWING IS BASED UPON TOPOGRAPHICAL SURVEY PROVIDED BY SEVERN PARTNERSHIP ON 19TH SEPTEMBER 2015.
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Submittal
A01	15/03/18	ISSUED FOR INFORMATION	JB	RS	RS	
A02	03/05/18	FOR DCO PLANNING APPLICATION	JB	RS	RS	
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS	



Project: METROWEST PHASE 1

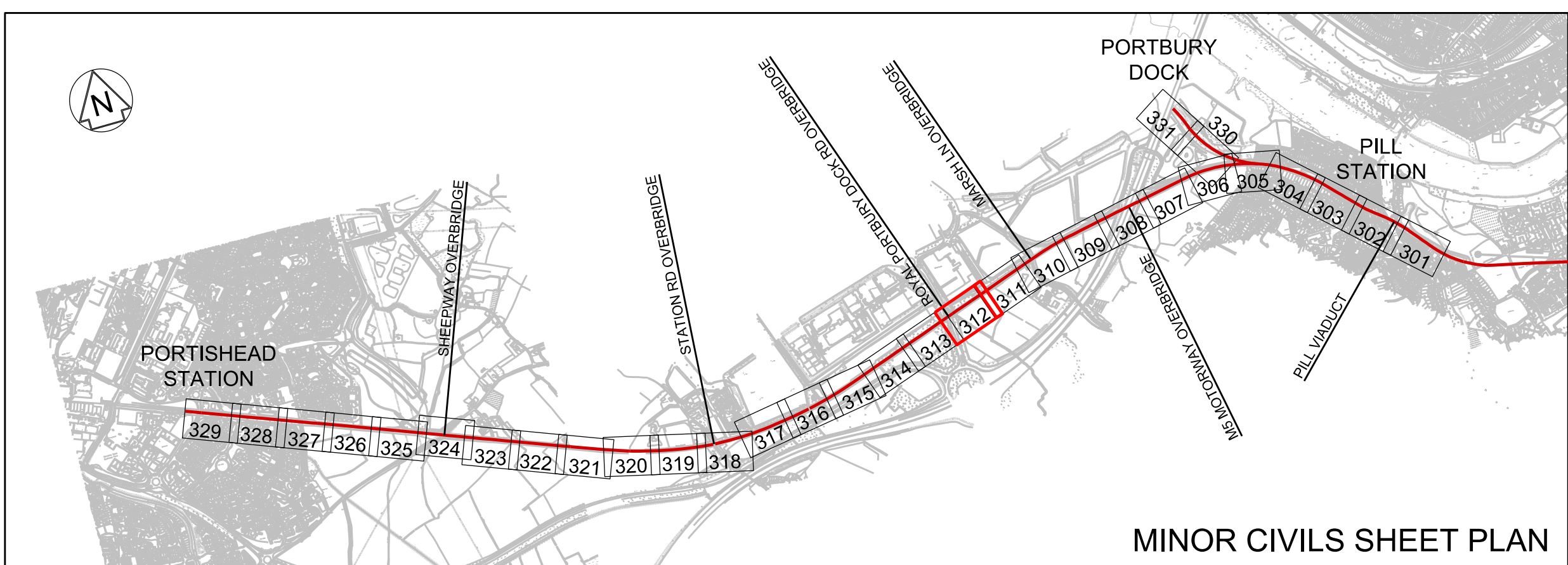
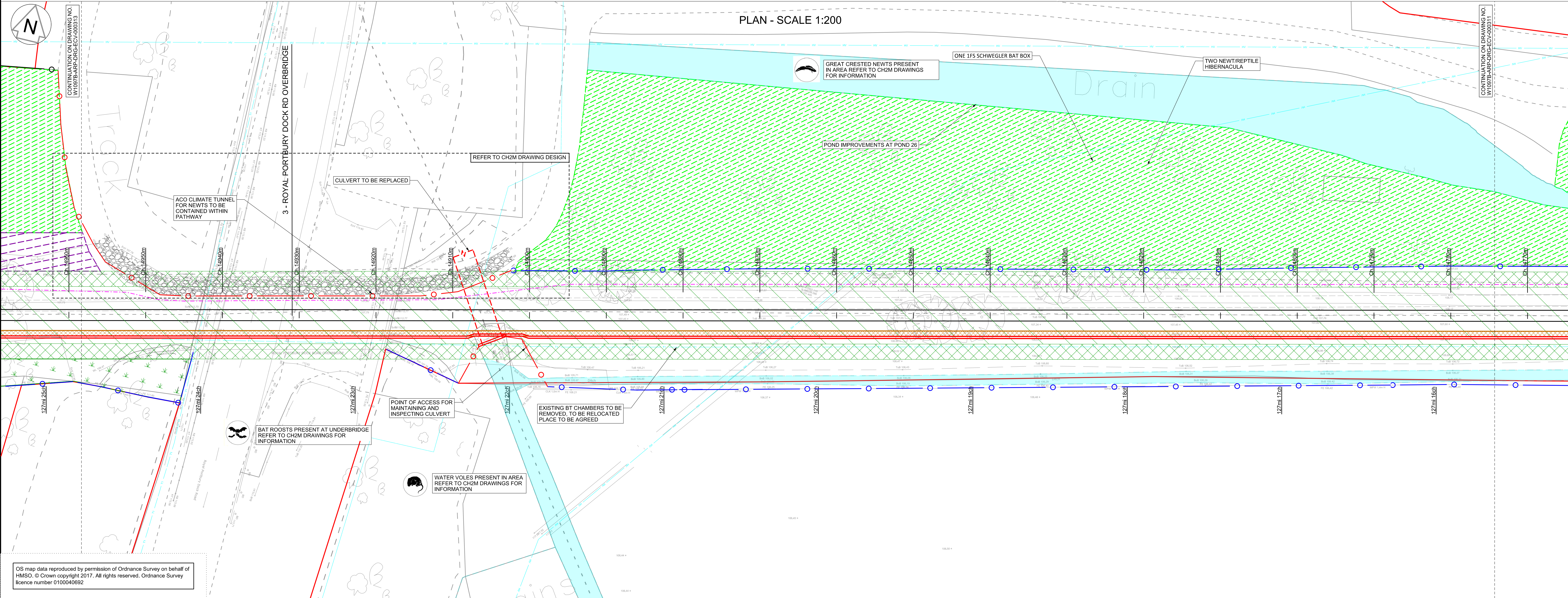
Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.14570m TO CH.14770m

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  
Alternative Reference: POD 127m 06CH  
Drawing Number: W1097B-ARP-DRG-ECV-000311 | A03  
Sheet: 11 of 31  
Revision:

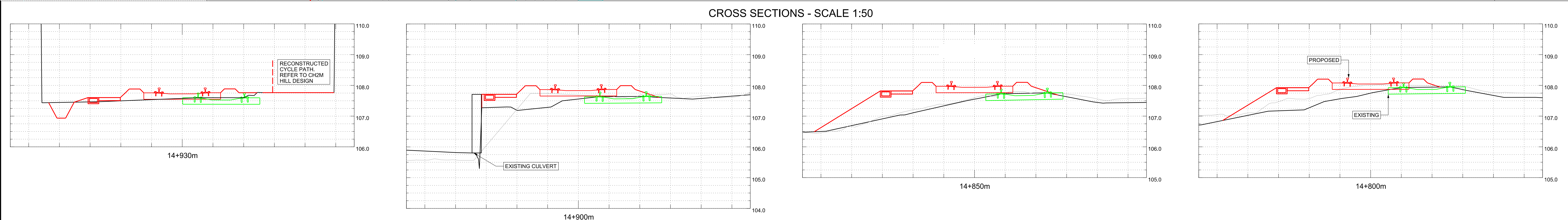
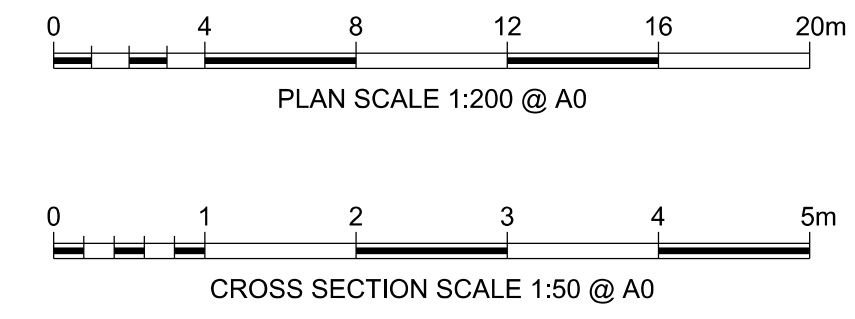
MINOR CIVILS		EXISTING UTILITIES		TELECOM LEGEND		SPECIES, ECOLOGY, LANDSCAPE	
EXISTING FENCE GRADE I	— / — / —	PROPOSED CABINET LOCATION (NOT TO SCALE)	☒	INDICATIVE LOCATION OF SCRATCH BURIED PROPOSED ARMoured FIBRE CABLE	— · — · — ·	WATER VOLES	🦉
EXISTING FENCE GRADE II	— ○ —	PROPOSED SIGNAL (NOT TO 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 CRISTED 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)	— / — / —						
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —						
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						



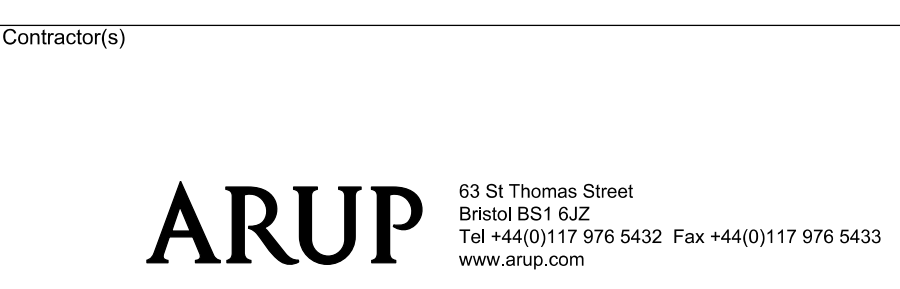


- Legend/Notes
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr
A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS



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	☒	RIISING 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	☒	HIGH VOLTAGE ELECTRICITY - ABOVE GROUND	— — — — —	BIRD BOX (PROPOSED)	🏠
PROPOSED FENCE GRADE I	— — —	NOISE BARRIER	☒	FIBRE JOINT (PROPOSED)	— — — — —	AREA OF VEGETATION TO BE RETAINED DURING CONSTRUCTION	🌿
PROPOSED FENCE GRADE II	— — —	DEVELOPMENT CONSENT ORDER (DCO)	☒	PROPOSED GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) REPEATER SITE WITH REMOTE RADIO HEAD (RRH) AND ANTENNA	— — — — —	WOODLAND TO BE PLANTED DURING CONSTRUCTION	🌳
PROPOSED FENCE GRADE III	— — —	LAND BOUNDARY	☒	PROPOSED FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	— — — — —	GRASSLAND TO BE PLANTED DURING CONSTRUCTION	🌱
PROPOSED TROUHING	— — —	CONTINUOUS POSITION OF SAFETY	☒	EXISTING FIXED TELECOMMUNICATION NETWORK (FTN) ACCESS NODE WITH GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS - RAILWAY (GSM-R) CO-LOCATED	— — — — —	HEDGE/TREES TO BE PLANTED DURING CONSTRUCTION	🌳
REMOVED TROUHING	— — —	AUTHORISED WALKING ROUTE	☒				
EXISTING TROUHING MODIFIED/REPLACED	— — —	EXTENT OF RAIL CORRIDOR TO BE CLEAR OF VEGETATION	☒				
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	☒				
EXISTING UNDER TRACK CROSSING (UTX)	— — —						
REMOVED UNDER TRACK CROSSING (UTX)	— — —						

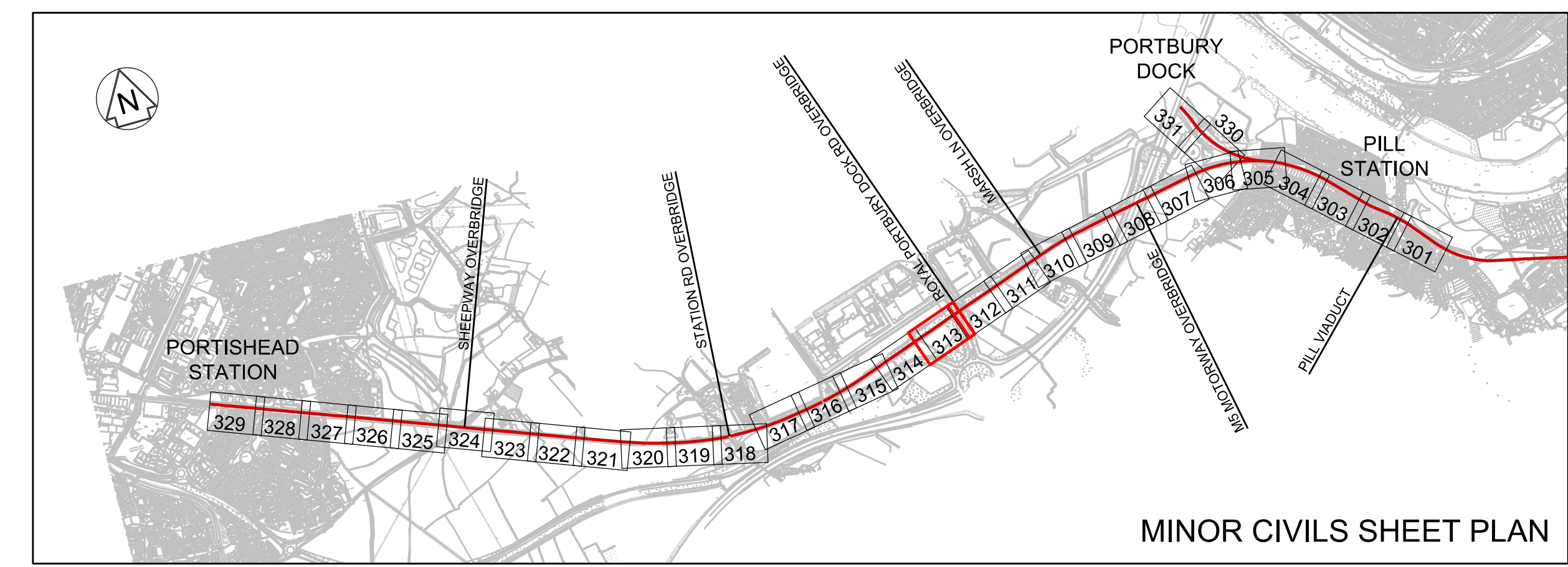
Project: METROWEST PHASE 1

Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.14770m TO CH.14960m

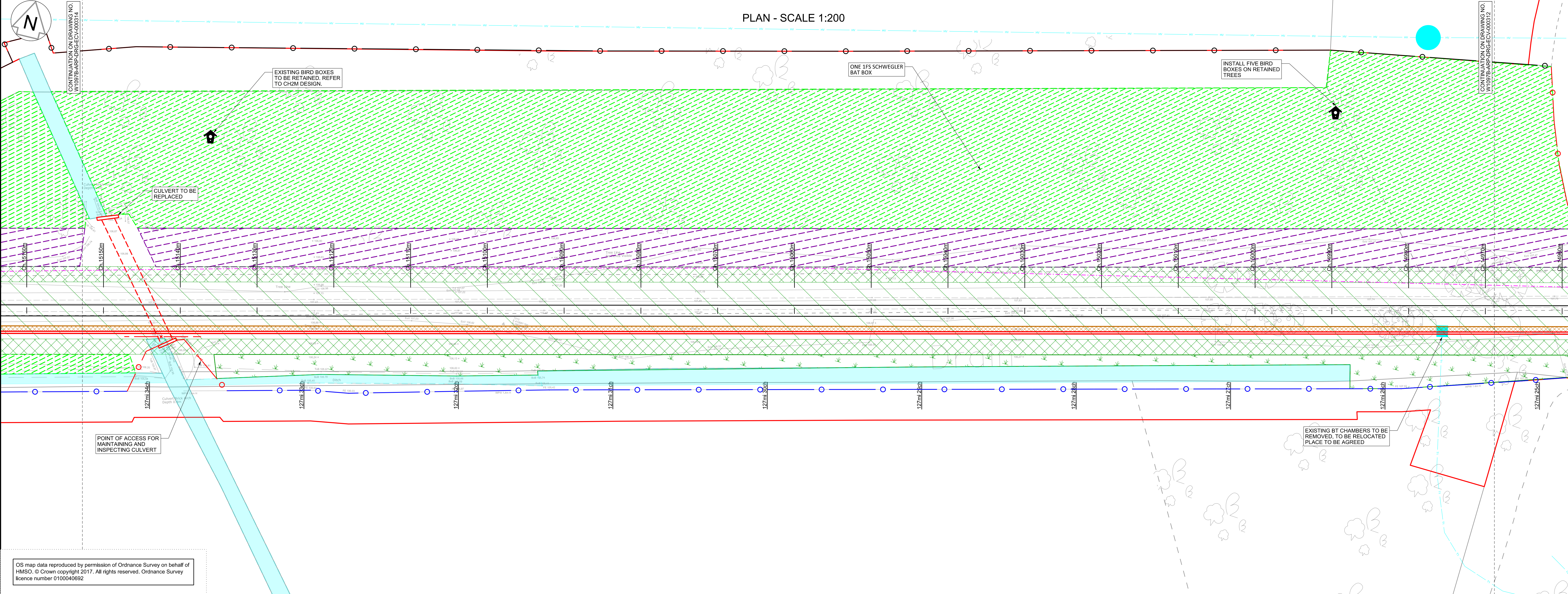
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Checked	R. SNELL	Signed	R. SNELL	Date	24/07/19
Approved	R. SNELL	Signed	R. SNELL	Date	24/07/19

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Alternative Reference: POD 127M 16CH  
Drawing Number: W1097B-ARP-DRG-ECV-000312 A03  
Sheet: 12 of 31  
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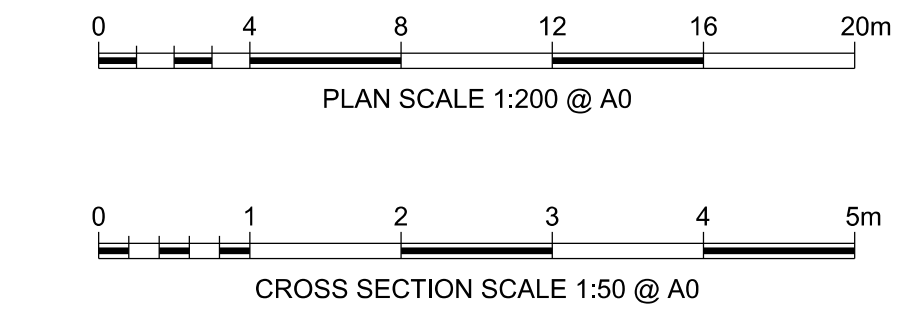
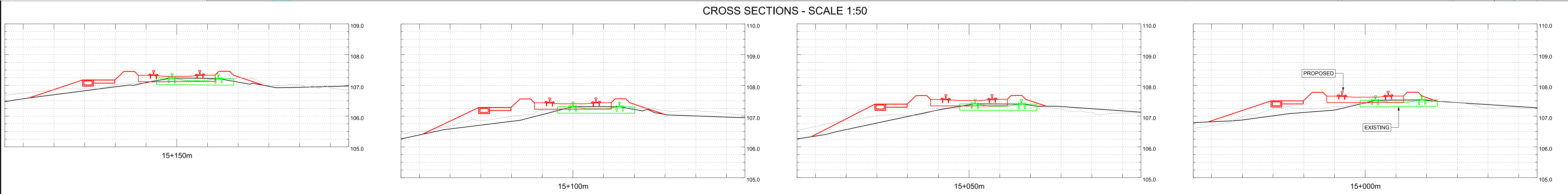




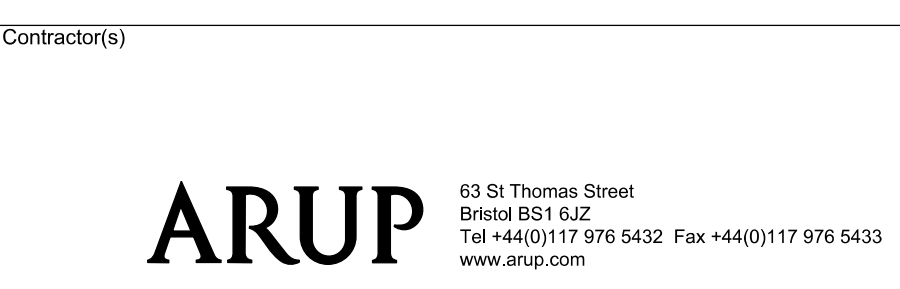
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Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Submittal
A01	15/03/19	ISSUED FOR INFORMATION	JB	RS	RS	
A02	03/05/19	FOR DCO PLANNING APPLICATION	JB	RS	RS	
A03	24/07/19	FOR DCO PLANNING APPLICATION	JB	RS	RS	



Project: METROWEST PHASE 1

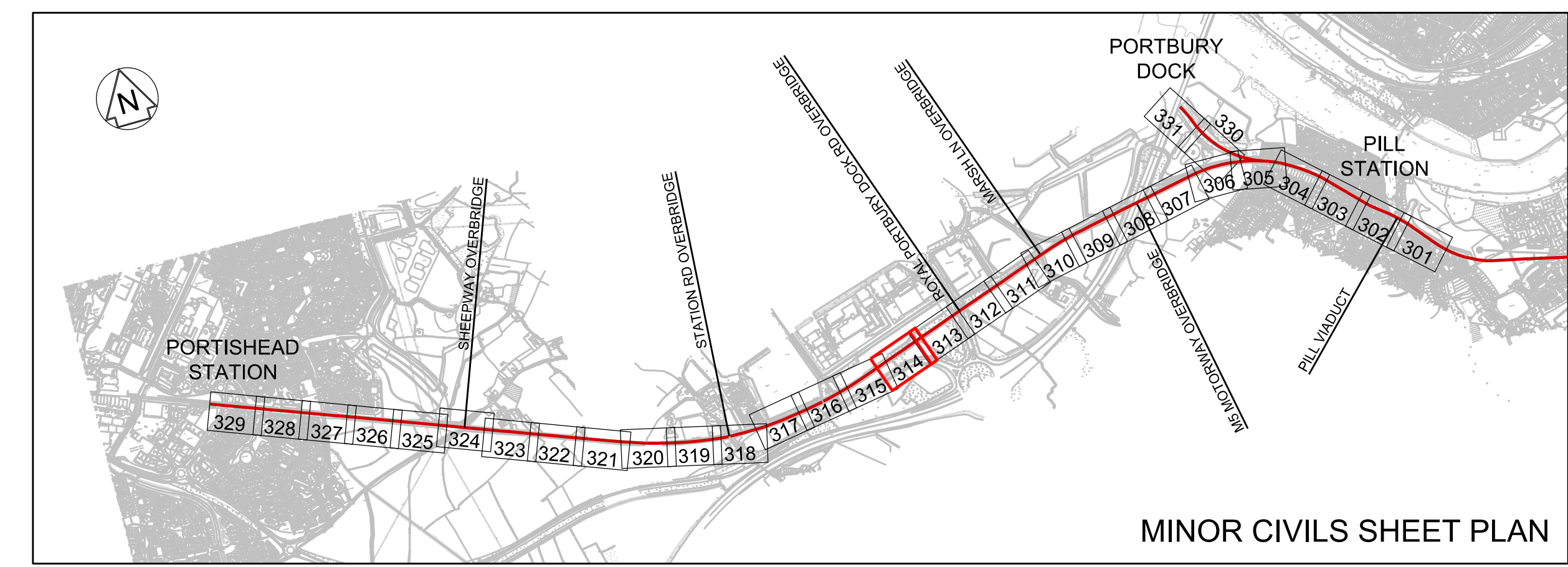
Drawing Title: DISUSED RAILWAY ENGINEERING PLANS  
GRIP 4 MINOR CIVILS  
CH.14960m TO CH.15160m

Design	Drawn	Checked	Approved	Scales	ELR & Measg	Sheet	Date
J. BACINSKI	J. BACINSKI	R. SNELL	R. SNELL	1:200	POD 127M 25CH	13 of 31	24/07/19

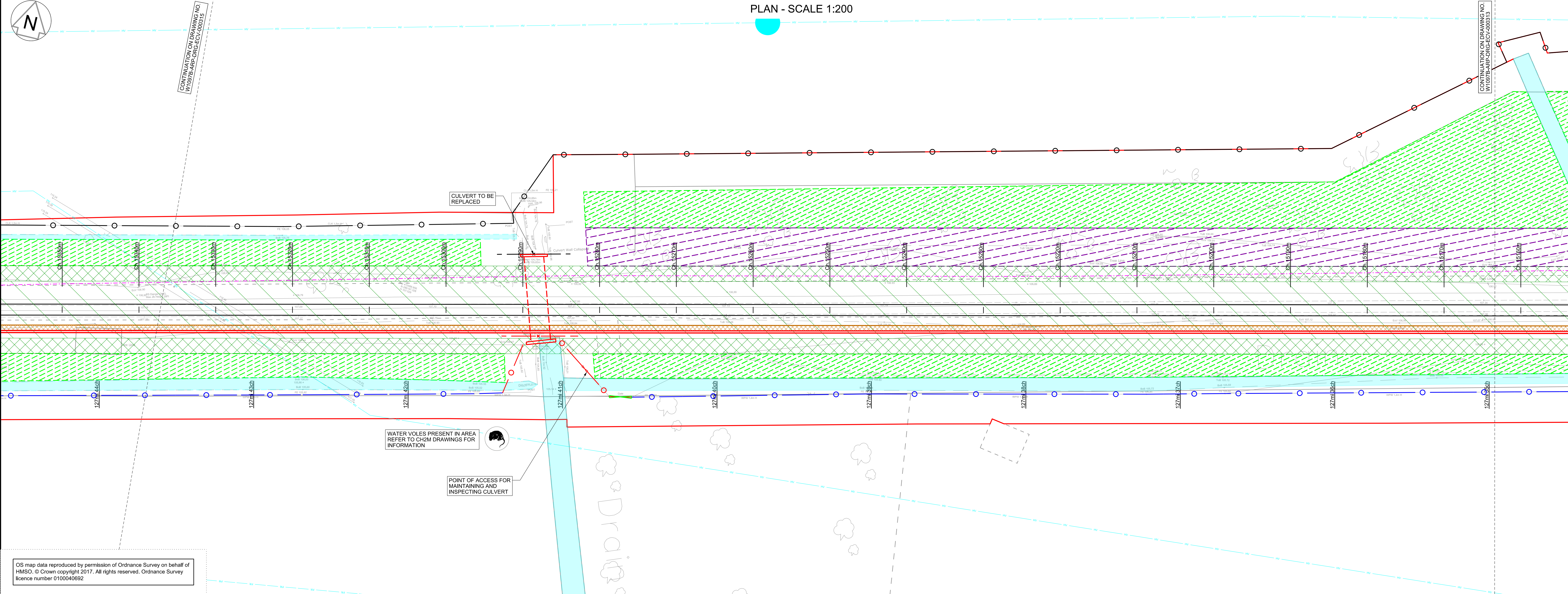
Drawing Number: W1097B-ARP-DRG-ECV-000313 A03

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 ARMoured 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)	— / — / —						
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —						
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						

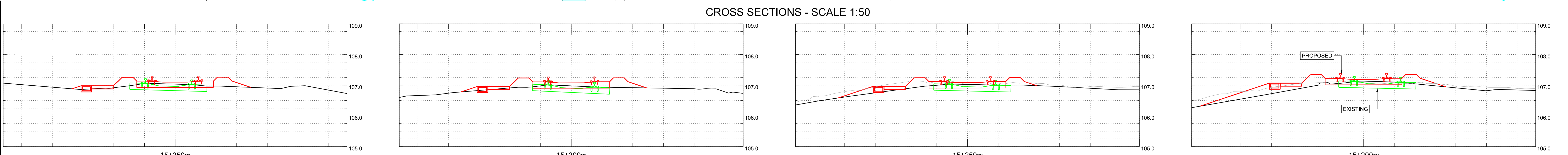




- Legend/Notes
- ALL LEVELS AND DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS AND LEVELS TO BE USED.
  - CHANGING DATUM IS 4000.000m AT THE 120M 40CH MILE POST ON POD LINE. REGULAR CHANGING MARKERS PRESENTED ON LAYOUT DRAWINGS ARE MEASURED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

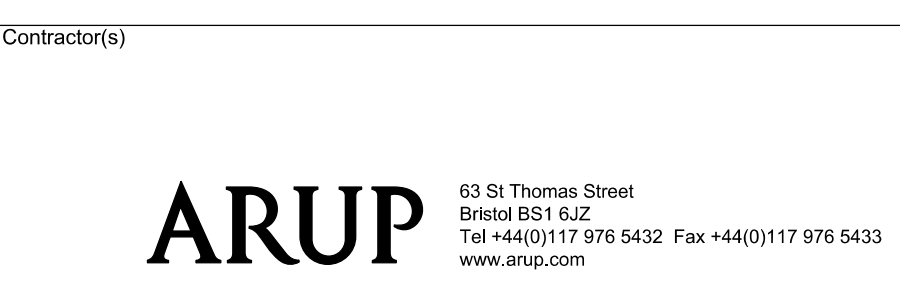


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Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Submittal
A01	15/03/19	ISSUED FOR INFORMATION		JB	RS	RS
A02	03/05/19	FOR DCO PLANNING APPLICATION		JB	RS	RS
A03	24/07/19	FOR DCO PLANNING APPLICATION		JB	RS	RS

**FIT FOR INFORMATION** S2



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 ARMOURED 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)	— / — / —						
EXISTING UNDER TRACK CROSSING (UTX)	— / — / —						
REMOVED UNDER TRACK CROSSING (UTX)	— / — / —						

Project: **METROWEST PHASE 1**

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

Design	Drawn	Checked	Approved	Scales	Alternative Reference	Sheet
J. BACINSKI	J. BACINSKI	R. SNELL	R. SNELL	1:200	POD 127M 35CH	14 of 31

Drawing Number: **W1097B-ARP-DRG-ECV-000314 | A03**



