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SCALE 1:250
@ A1 SHEET SIZE

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:
- THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
 - WHEREVER REQUIRED, ROAD MARKINGS ARE TO BE LAID IN ACCORDANCE WITH THE TRAFFIC SIGN REGULATIONS AND GENERAL DIRECTIONS 2016 & TRAFFIC SIGNS MANUAL CHAPTER 5 (2003).
 - FOR DETAILS OF ROAD MARKINGS, REFER TO STANDARD CONSTRUCTION DETAIL TW5 ROAD MARKINGS FOR COMPOUND ACCESS DRAWING No. 133735_RW-EWR-XX-XX-DR-CH-000122.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	29/10/19	FOR INFORMATION				S.A
Status						S2



Project
East West Rail
(Western Section)
Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3
GENERAL ARRANGEMENT

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -	Sheet	1 of 1
Design Package Risk Classification	Normal			Revision	B01

Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010001

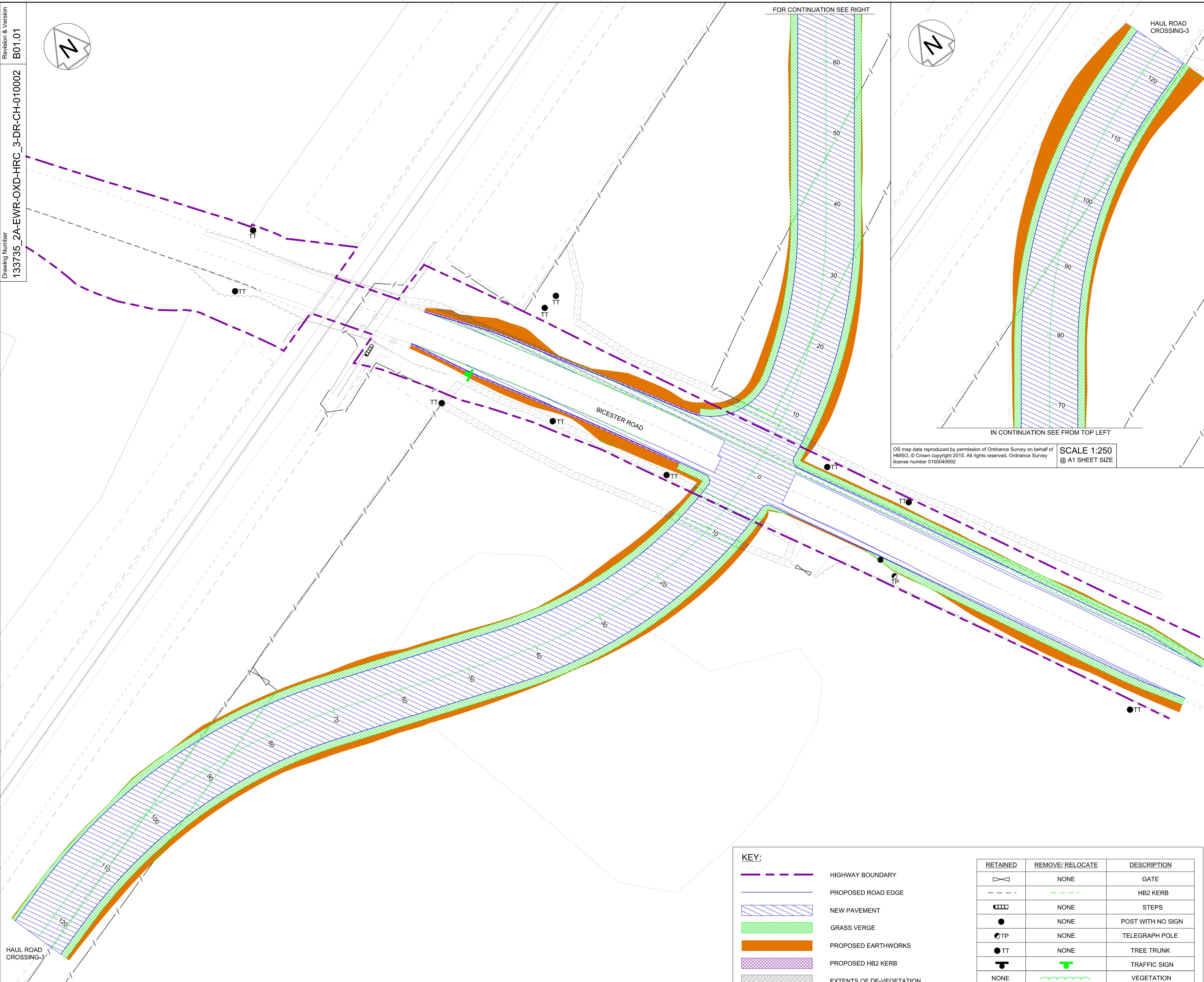
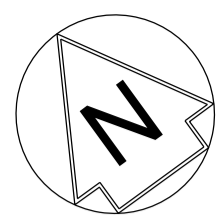
KEY:

	HIGHWAY BOUNDARY		GRASS VERGE
	EXISTING ROAD EDGE		PROPOSED EARTHWORKS
	PROPOSED ROAD EDGE		PROPOSED HB2 KERB
	PROPOSED WHITE ROAD MARKING		RELOCATED TRAFFIC SIGN
	PROPOSED YELLOW ROAD MARKING		PROPOSED TRAFFIC SIGNALS
	NEW PAVEMENT		

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
THE WORKS ARE TO BE UNDERTAKEN BY A COMPETENT DELIVERY TEAM, AND THEREFORE ONLY EXCEPTIONAL RISKS RELATING TO THE WORKS ASSOCIATED WITH THIS DRAWING ARE IDENTIFIED BELOW. FOR FURTHER DETAILS AND PROPOSED SAFETY MEASURES REFER "EWR PHASE 2 HAZARD LOG WORKING COPY" EB DOC. REF: 133735-NWR-RSA-SSD-000001.

ID	HAZARD DESCRIPTION
EWR2-HAZ-02510	PRESENCE OF HIGH PRESSURE GAS PIPELINE
EWR2-HAZ-02511	PRESENCE OF BURIED SERVICES/ UTILITIES

INDICATES PROJECT RISKS (EWR2-DRIS-)
 INDICATES H&S RISKS (EWR2-HAZ-)



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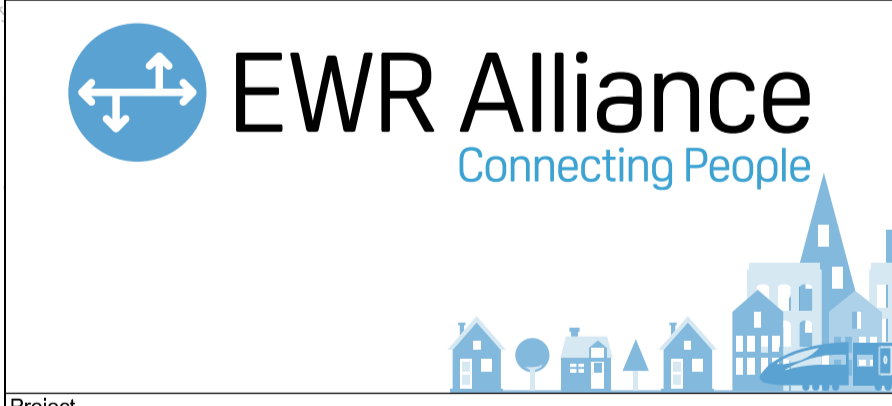
SCALE 1:250
@ A1 SHEET SIZE

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:**
- THIS DRAWING IS NOT TO BE SCALED.
 - ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
 - PRIOR TO THE COMMENCEMENT OF WORKS, A SUITABLY QUALIFIED ECOLOGIST SHALL INSPECT THE SITE FOR THE PRESENCE OF PROTECTED SPECIES AND HABITAT. THE ECOLOGIST SHALL THEN ADVISE EWR ALLIANCE ON THE REQUIRED PRECAUTIONARY METHODS AND AREAS OF EXCLUSION.
 - WHERE SITE CLEARANCE WORKS HAVE THE POTENTIAL TO IMPACT TREES OR HEDGES WHICH ARE TO BE RETAINED, AN ARBORICULTURALIST SHALL BE PRESENT TO ADVISE ON ROOT PROTECTION ZONE EXTENTS, ROOT PRUNING AND CROWN RAISING. WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS3998:2010.
 - SITE CLEARANCE, WHERE THERE IS PROXIMITY TO HABITAT OF PROTECTED SPECIES, SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED ECOLOGIST.
 - THE EXTENTS OF ALL SITE CLEARANCE WORKS SHALL BE RECORDED IN THE AS-BUILT SITE CLEARANCE DRAWINGS AND SHALL ALSO BE RECORDED, WITH PHOTOGRAPHS OF FEATURES PRIOR TO REMOVAL, IN THE SITE CLEARANCE REGISTER. THE SITE CLEARANCE REGISTER SHALL BE MAINTAINED BY EWR ALLIANCE AND WILL INFORM REINSTATEMENT DETERMINATION.
 - IN LOCATIONS WHERE EXISTING TREES OVERHANG THE PASSING PLACE CROWN LIFTING, TO GIVE 5m CLEARANCE ABOVE GROUND LEVEL, SHALL BE UNDERTAKEN TO THE BACK OF THE PROPOSED VERGE. THIS SHALL BE UNDERTAKEN UNDER THE SUPERVISION OF AN ARBORICULTURIST.
 - THE VEGETATION CLEARANCE SHOWN HERE ON THE DRAWING IS INDICATIVE ONLY. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY, INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.
 - FOR CLARITY ONLY THE TRUNKS OF EXISTING TREES ARE SHOWN, FOR CANOPY EXTENTS THE TREE SURVEY MODEL AND MASTER SCHEDULE ARE TO BE REFERRED TO.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	29/10/19	FOR INFORMATION				S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3 SITE CLEARANCE

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

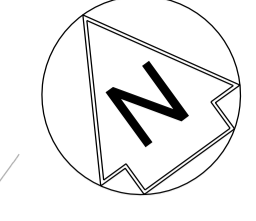
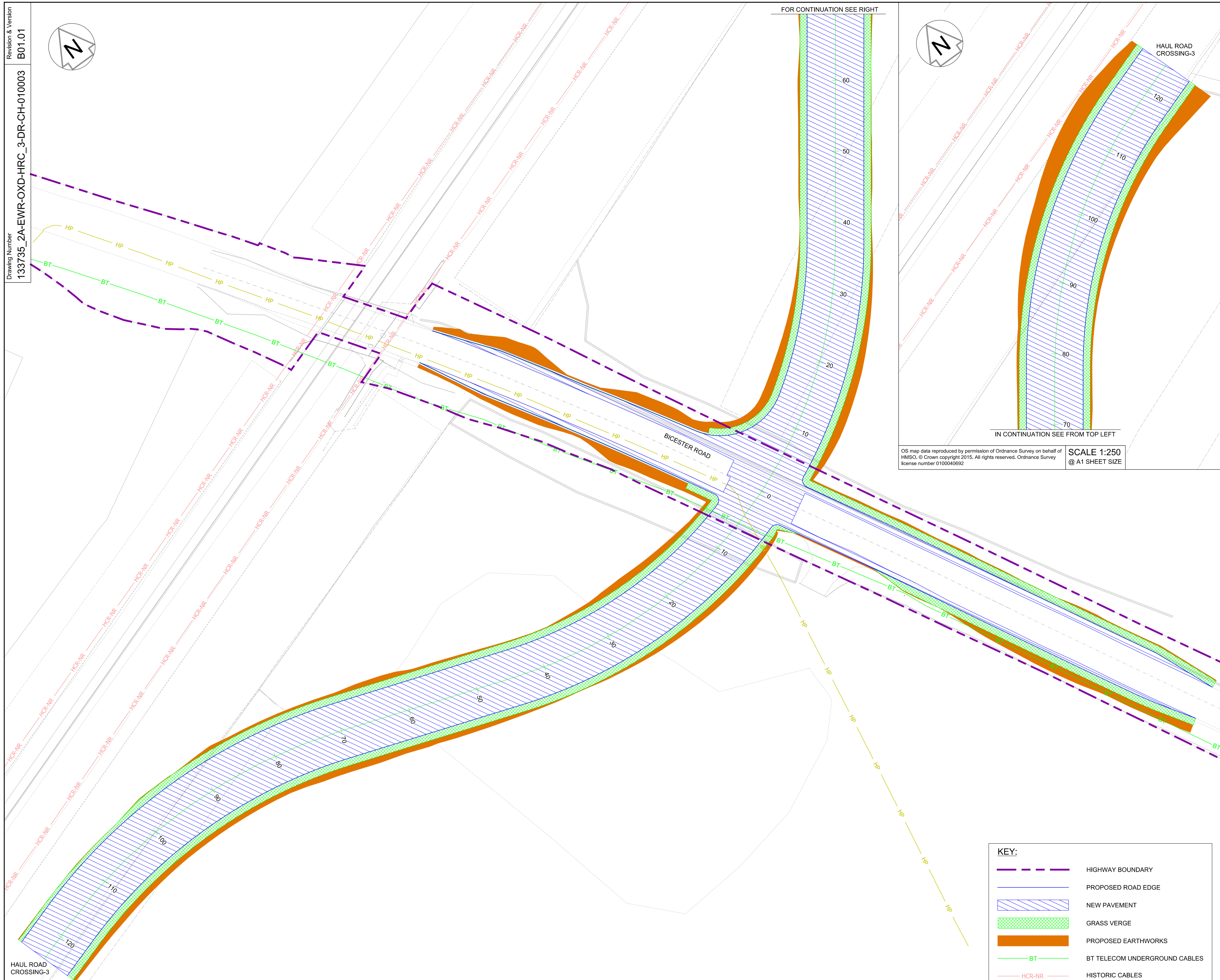
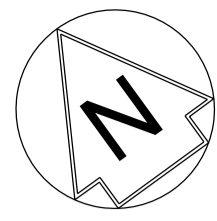
Scale(s)
1:250
ELR - Project Chainage (Miles/Yards)
OXD -
Design Package Risk Classification
Normal
Sheet
1 of 1
Alternative Reference
Revision
B01

Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010002

KEY:

	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE
	NEW PAVEMENT
	GRASS VERGE
	PROPOSED EARTHWORKS
	PROPOSED HB2 KERB
	EXTENTS OF DE-VEGETATION

RETAINED	REMOVE/ RELOCATE	DESCRIPTION
	NONE	GATE
	NONE	HB2 KERB
	NONE	STEPS
	NONE	POST WITH NO SIGN
	NONE	TELEGRAPH POLE
	NONE	TREE TRUNK
		TRAFFIC SIGN
NONE		VEGETATION
		FENCE

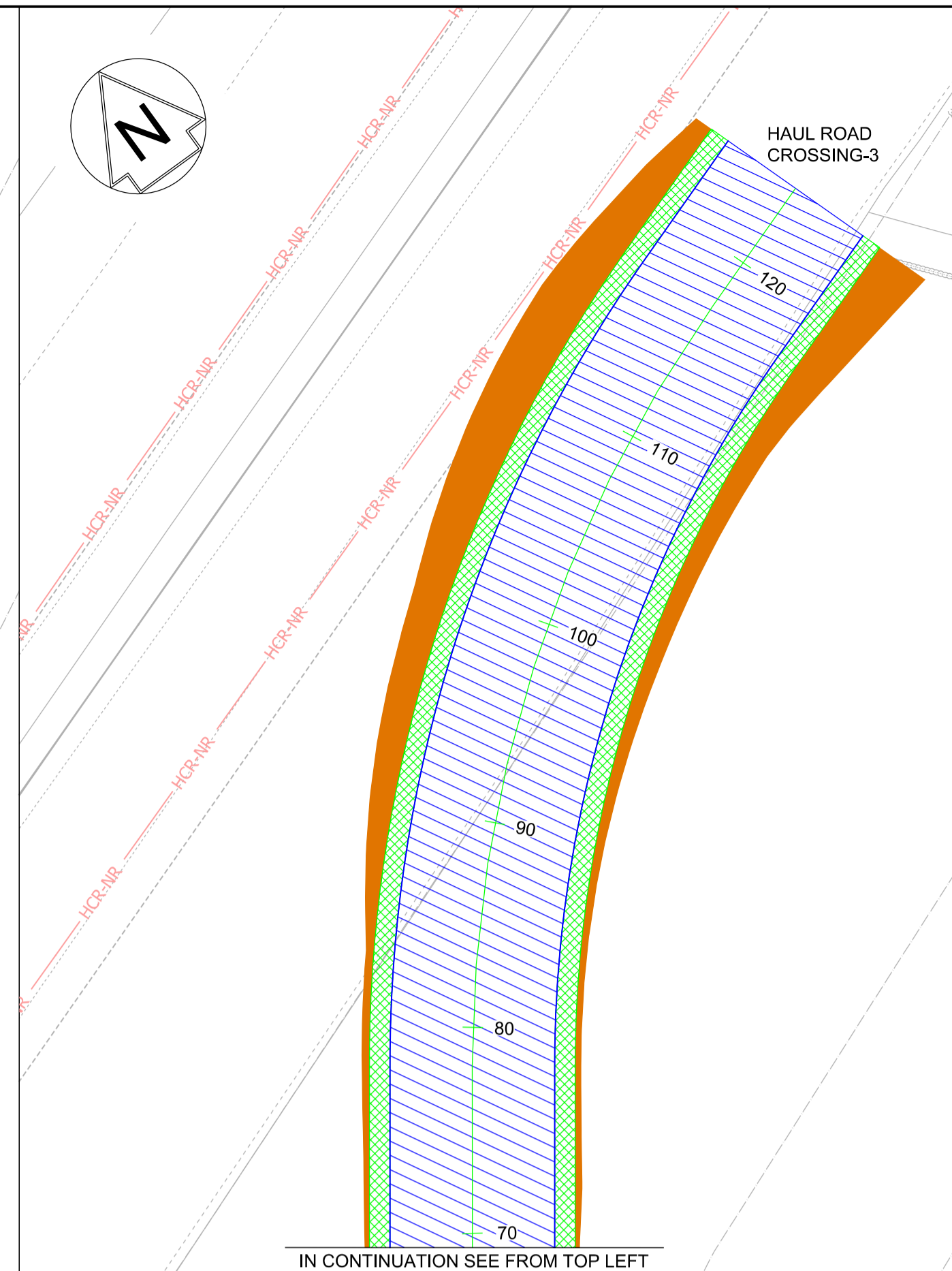


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SCALE 1:250
@ A1 SHEET SIZE

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:**
1. THIS DRAWING IS NOT TO BE SCALED.
 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
 4. THE EXACT LOCATION AND EXTENT OF BURIED SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. AGREEMENT WITH PRIVATE LANDOWNERS SHALL BE OBTAINED PRIOR TO WORKS WHERE ACCESS TO PRIVATE LAND IS REQUIRED.
 5. THIS DRAWING SHOWS THE POSITION OF UTILITY COMPANIES APPARATUS KNOWN TO OPERATE IN THE AREA IMMEDIATELY ADJACENT TO AND WITHIN THE LAND TAKE BOUNDARY FOR EAST WEST RAIL.
 6. THE POSITIONS INDICATED FOR THE APPARATUS ARE BASED ON RECORDS PROVIDED BY NETWORK RAIL. THE ACCURACY OF THE DRAWING IS THEREFORE LIMITED BY THE ACCURACY OF THE RECORDS MAINTAINED BY THE UTILITY COMPANIES. THE METHODS AVAILABLE TO PROCESS / REPRODUCE THIS INFORMATION IN THE DRAWINGS AND THE AGE OF THE INFORMATION, THERE IS THE POSSIBILITY THAT APPARATUS HAS BEEN ADDED OR REMOVED SINCE THE RECORDS WERE PROVIDED.
 7. ALL SEARCHES MUST BE VERIFIED AND ESTABLISHED ON SITE BEFORE WORK COMMENCES. IT IS THE RESPONSIBILITY OF THE EWR ALLIANCE TO IDENTIFY AND LOCATE UTILITY PLANT PRIOR TO WORK GOING AHEAD.

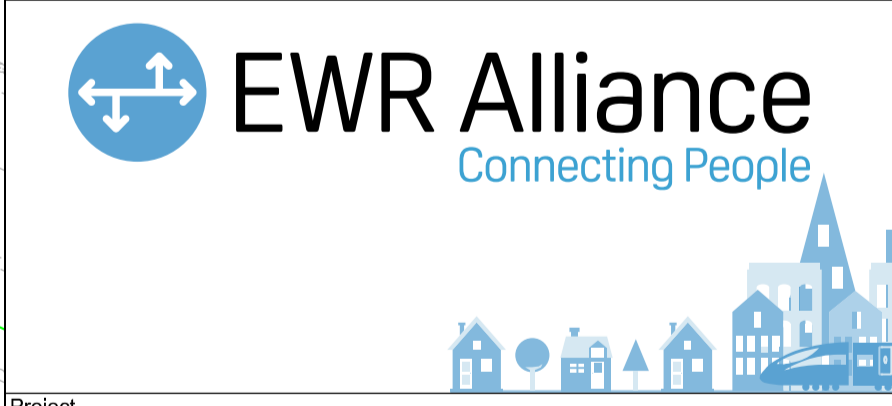


IN CONTINUATION SEE FROM TOP LEFT

FOR CONTINUATION SEE RIGHT



Rev	Date	Description of Revisions	Dend	Chkd	Appr	Suitability
B01	28/10/19	FOR INFORMATION				S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3 EXISTING UTILITIES

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

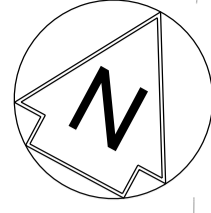
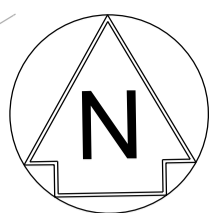
Scale(s)
1:250
Design Package Risk Classification
Normal

Alternative Reference
Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010003

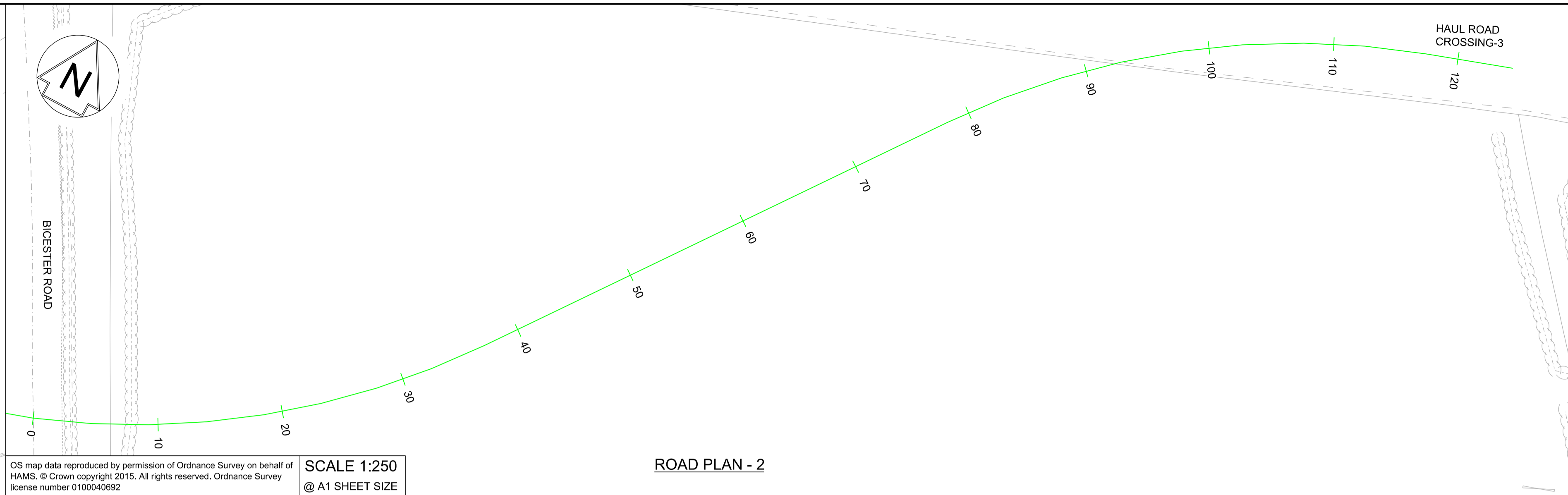
Sheet
1 of 1
Revision
B01

KEY:

	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE
	NEW PAVEMENT
	GRASS VERGE
	PROPOSED EARTHWORKS
	BT TELECOM UNDERGROUND CABLES
	HISTORIC CABLES
	HIGH PRESSURE GAS



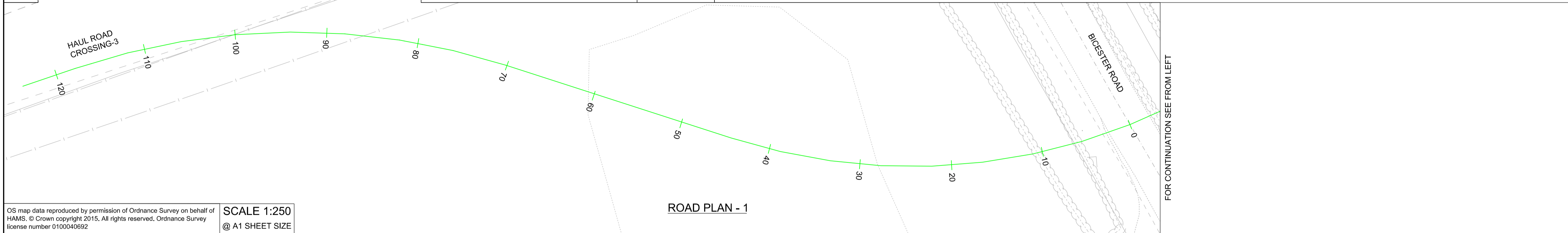
IN CONTINUATION SEE FROM RIGHT



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SCALE 1:250
@ A1 SHEET SIZE

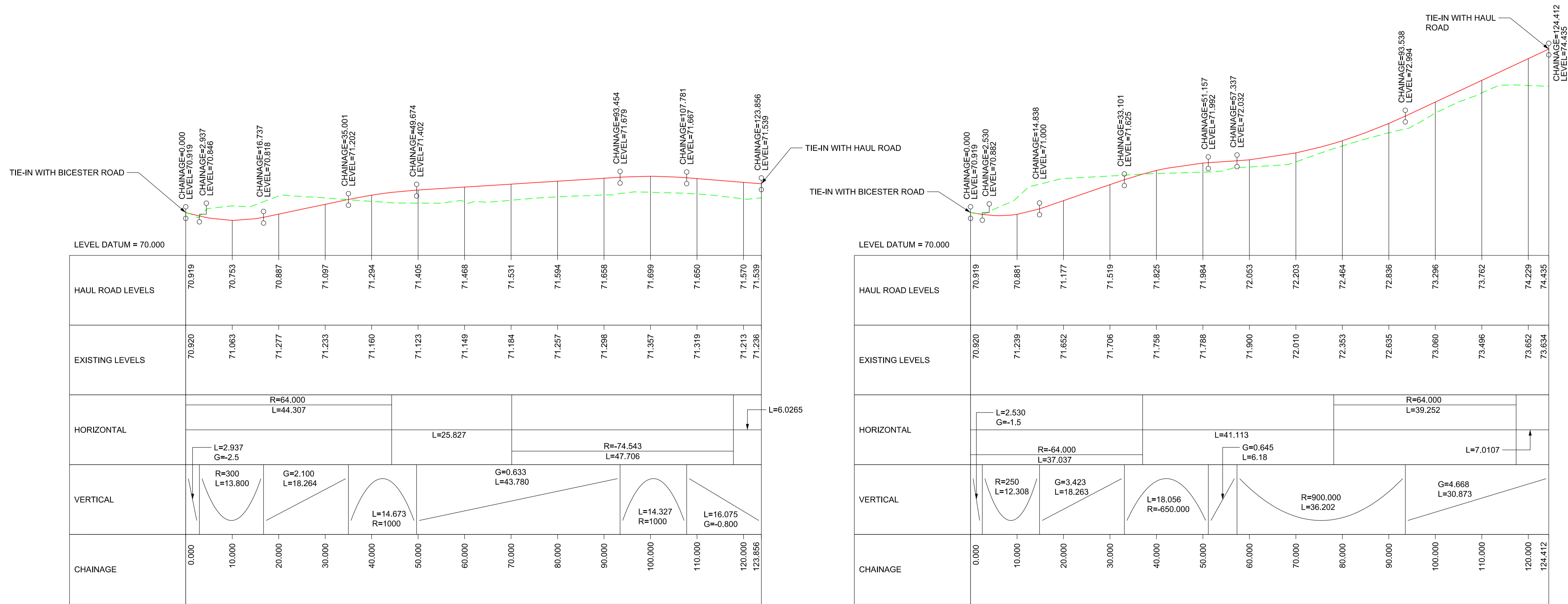
ROAD PLAN - 2



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SCALE 1:250
@ A1 SHEET SIZE

ROAD PLAN - 1



ROAD PROFILE - 1
SCALE = H - 1:500
V - 1:50

ROAD PROFILE - 2
SCALE = H - 1:500
V - 1:50

KEY:

	NEW ROAD EDGE LEVEL
	EXISTING SURFACE LEVEL

SCALE : AS SHOWN
@ A1 SHEET SIZE

NETWORK RAIL (EAST WEST
RAIL WESTERN SECTION PHASE 2)

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS AND LEVELS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	29/10/19	FOR INFORMATION				S2

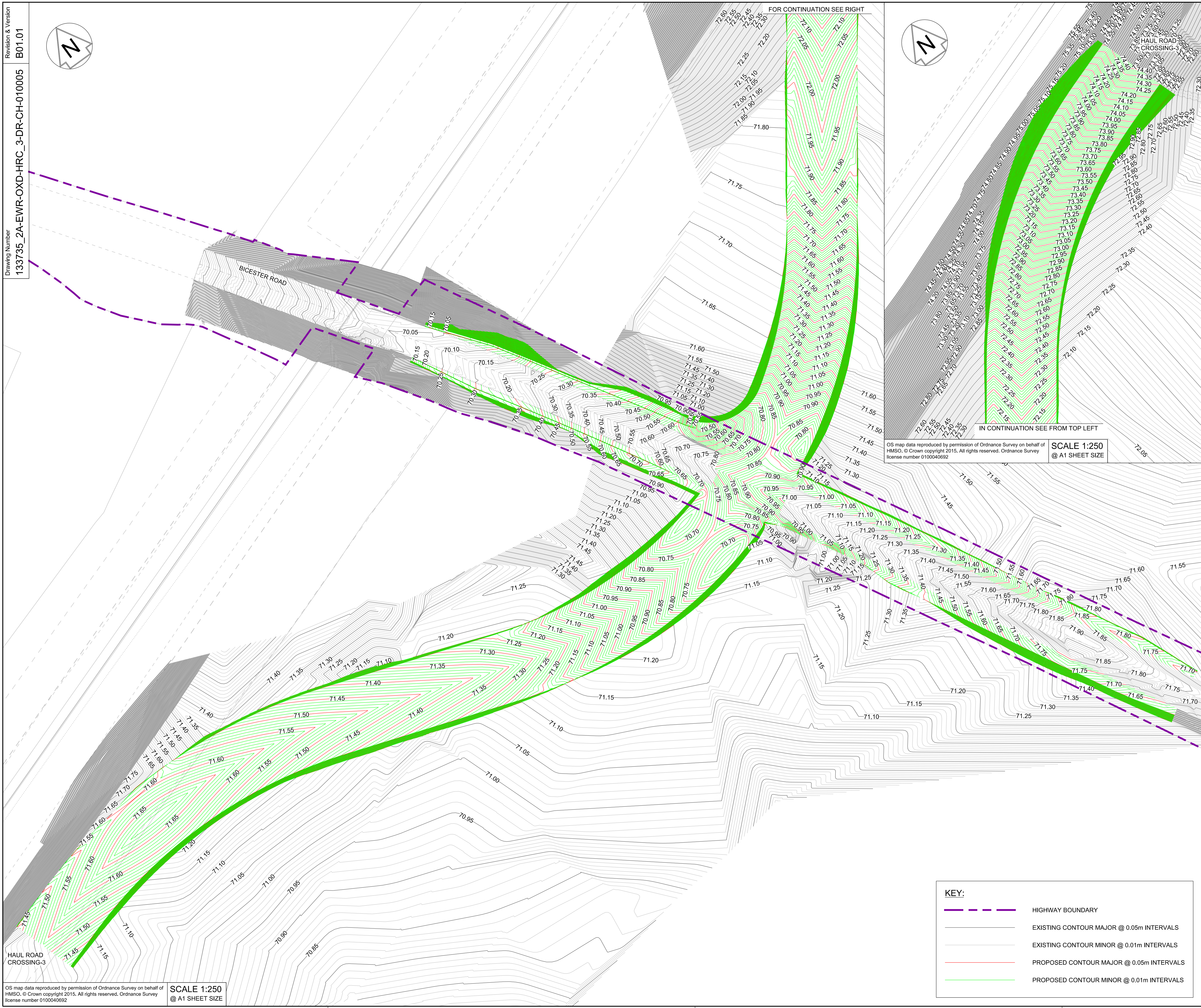
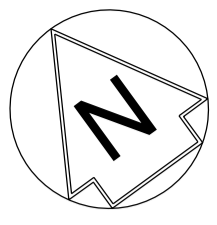


Project
East West Rail
(Western Section)
Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3
ROAD PLAN AND PROFILE

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	ELR - Project Chainage (Miles Yards)	AS SHOWN	OXD -
Design Package Risk Classification	Normal	Sheet	1 of 1
Alternative Reference		Revision	B01
Drawing Number	133735_2A-EWR-OXD-HRC_3-DR-CH-010004		



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NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:
1. THIS DRAWING IS NOT TO BE SCALED.
 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
 4. ALL WORKS TO BE IN ACCORDANCE WITH THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAYS WORKS VOL 1 (SPECIFICATION FOR HIGHWAY WORKS) AND STANDARD CONSTRUCTION DETAILS.
 5. THE DELIVERY TEAM IS TO VERIFY DIMENSION ON SITE AND ADVISE OF ANY INFORMATION DISCREPANCIES. TIE-IN POINTS SHOULD BE VERIFIED ON SITE WITH THE ENGINEER PRIOR TO CONSTRUCTION.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	S.A
B01	28/10/19	FOR INFORMATION				

STATUS: SHARED - for Information S2



Project
East West Rail (Western Section) Phase 2

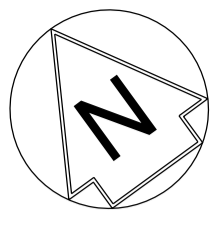
Drawing Title
HAUL ROAD CROSSING HRC_3 EXISTING AND PROPOSED CONTOURS

KEY:

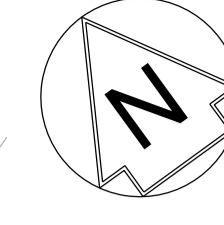
	HIGHWAY BOUNDARY
	EXISTING CONTOUR MAJOR @ 0.05m INTERVALS
	EXISTING CONTOUR MINOR @ 0.01m INTERVALS
	PROPOSED CONTOUR MAJOR @ 0.05m INTERVALS
	PROPOSED CONTOUR MINOR @ 0.01m INTERVALS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet
Alternative Reference			1 of 1
Drawing Number	133735_2A-EWR-OXD-HRC_3-DR-CH-010005		Revision
			B01



FOR CONTINUATION SEE RIGHT



HAUL ROAD CROSSING-3

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:**
1. THIS DRAWING IS NOT TO BE SCALED.
 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
 4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
 5. APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.

BICESTER ROAD

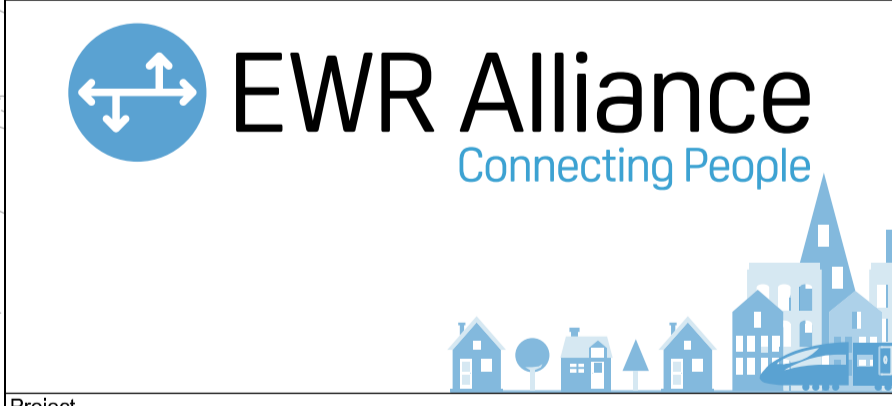
IN CONTINUATION SEE FROM TOP LEFT

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SCALE 1:250
@ A1 SHEET SIZE



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	28/10/19	FOR INFORMATION				S.A
Status						S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3 VEHICLE SWEEPED PATH ANALYSIS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal	Sheet	1 of 3
Alternative Reference		Revision	B01

Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010006

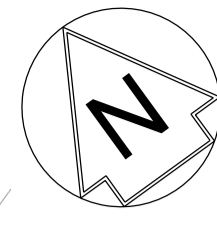
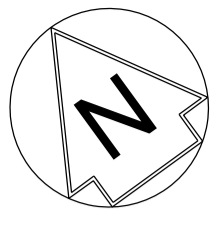
KEY:

- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

VEHICLE DETAILS

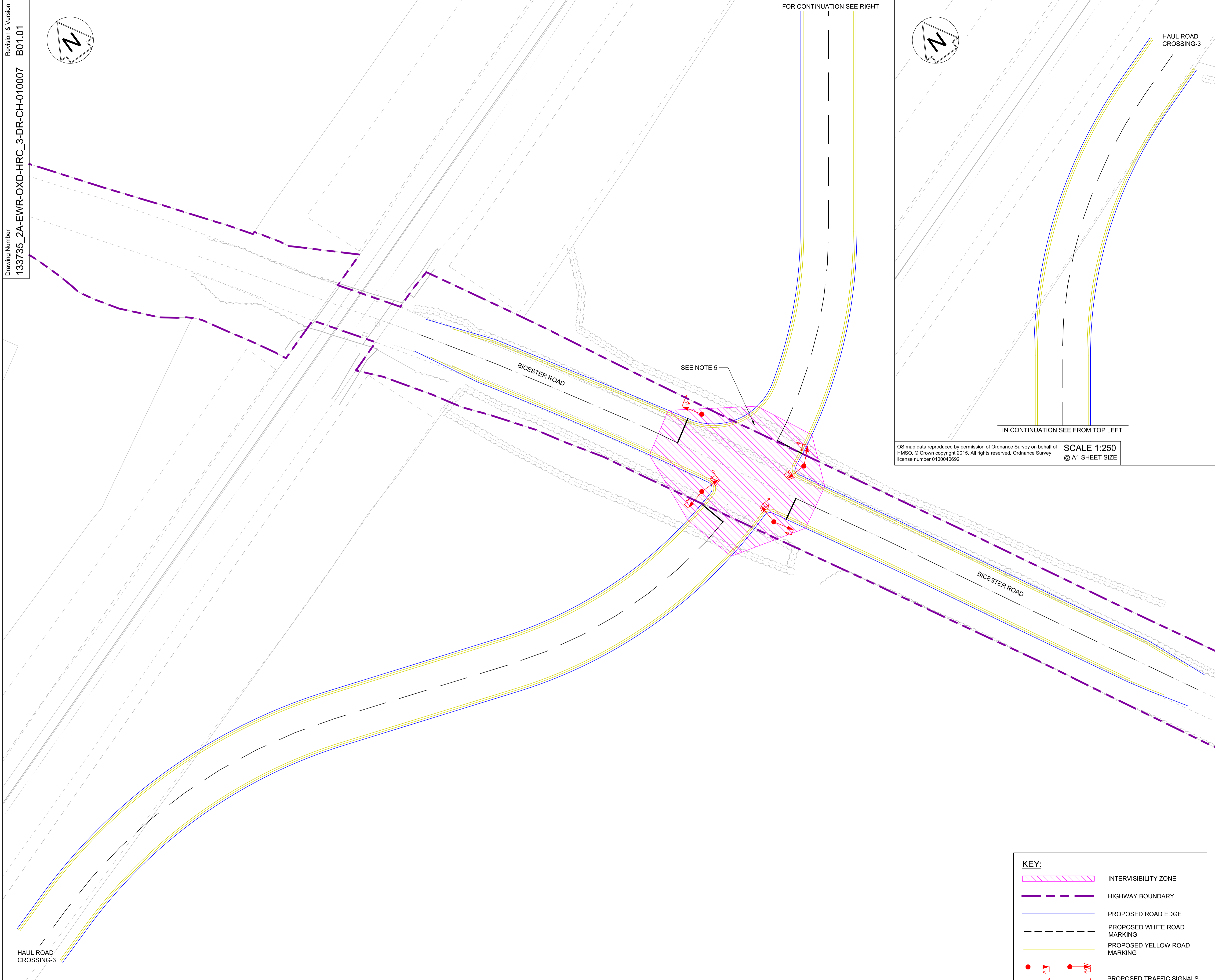
MAX LEGAL LENGTH (UK) ARTICULATED VEHICLE (16.5m)

OVERALL LENGTH	16.500m
OVERALL WIDTH	2.550m
OVERALL BODY HEIGHT	3.681m
MIN BODY GROUND CLEARANCE	0.411m
MAX TRACK WIDTH	2.500m
LOCK TO LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	6.530m



NETWORK RAIL (EAST WEST)
RAIL WESTERN SECTION PHASE 2

- NOTES:**
1. THIS DRAWING IS NOT TO BE SCALED.
 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 3. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.
 4. WHEREVER REQUIRED, ROAD MARKINGS ARE TO BE LAID IN ACCORDANCE WITH THE TRAFFIC SIGN REGULATIONS AND GENERAL DIRECTIONS 2016 & TRAFFIC SIGNS MANUAL CHAPTER 5 (2003).
 5. JUNCTION INTERVISIBILITY ZONE AS PER DMRB TD 50.



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SCALE 1:250
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DRAFT

Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	29/10/19	FOR INFORMATION				S.A

Rev Status: SHARED - for Information



Project
**East West Rail
(Western Section)
Phase 2**

Drawing Title
**HAUL ROAD CROSSING HRC_3
INTERVISIBILITY ZONE**

KEY:

	INTERVISIBILITY ZONE
	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE
	PROPOSED WHITE ROAD MARKING
	PROPOSED YELLOW ROAD MARKING
	PROPOSED TRAFFIC SIGNALS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

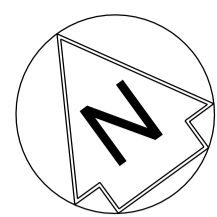
Scale(s)
1:250

ELR - Project Chainage (Miles/Yards)
OXD -

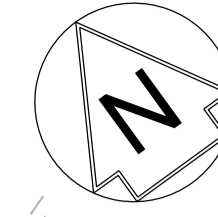
Design Package Risk Classification
Normal

Sheet
1 of 1

Alternative Reference
Revision
B01



FOR CONTINUATION SEE RIGHT



HAUL ROAD CROSSING-3

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
5. APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.

BICESTER ROAD

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SCALE 1:250
@ A1 SHEET SIZE



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	28/10/19	FOR INFORMATION				S.A
Status						S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3 VEHICLE SWEEPED PATH ANALYSIS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	27/08/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)
1:250
ELR - Project Chainage (Miles Yards)
OXD -

Design Package Risk Classification
Normal

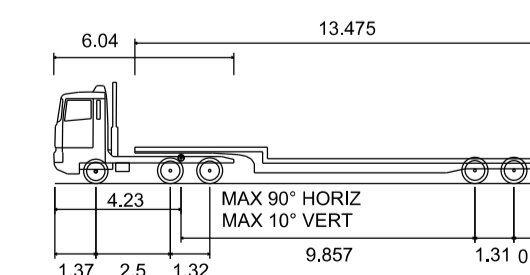
Alternative Reference
Revision
2 of 3
B01

Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010008

KEY:

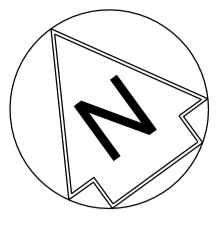
- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

VEHICLE DETAILS

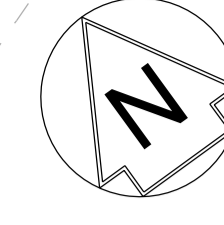


- LOW LOADER
- OVERALL LENGTH 16.154m
- OVERALL WIDTH 2.520m
- OVERALL BODY HEIGHT 3.393m
- MIN BODY GROUND CLEARANCE 0.318m
- MAX TRACK WIDTH 2.500m
- LOCK TO LOCK TIME 6.00s
- KERB TO KERB TURNING RADIUS 6.990m

Revision & Version
B01.01
Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010009



FOR CONTINUATION SEE RIGHT



HAUL ROAD CROSSING-3

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- NOTES:**
1. THIS DRAWING IS NOT TO BE SCALED.
 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
 3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
 4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEEPED PATHS ARE INFLUENCED BY ANTICIPATED MOVEMENTS AND THEREFORE LEAD TO IDEAL APPROACH ANGLES, WHICH MIGHT NOT BE OBVIOUS IN REALITY.
 5. APPROACH SPEEDS, APPROACH ANGLES, ROAD SURFACE, WEATHER CONDITIONS AND TYRE WEAR ARE ALL FACTORS THAT WILL INFLUENCE VEHICLE PATHS.

BICESTER ROAD

BICESTER ROAD

IN CONTINUATION SEE FROM TOP LEFT

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SCALE 1:250
@ A1 SHEET SIZE



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	28/10/19	FOR INFORMATION				S.A
Status						S2



East West Rail (Western Section) Phase 2

HAUL ROAD CROSSING HRC_3 VEHICLE SWEEPED PATH ANALYSIS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	27/08/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	1:250	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet
Alternative Reference			Revision
			B01

Drawing Number
133735_2A-EWR-OXD-HRC_3-DR-CH-010009

KEY:

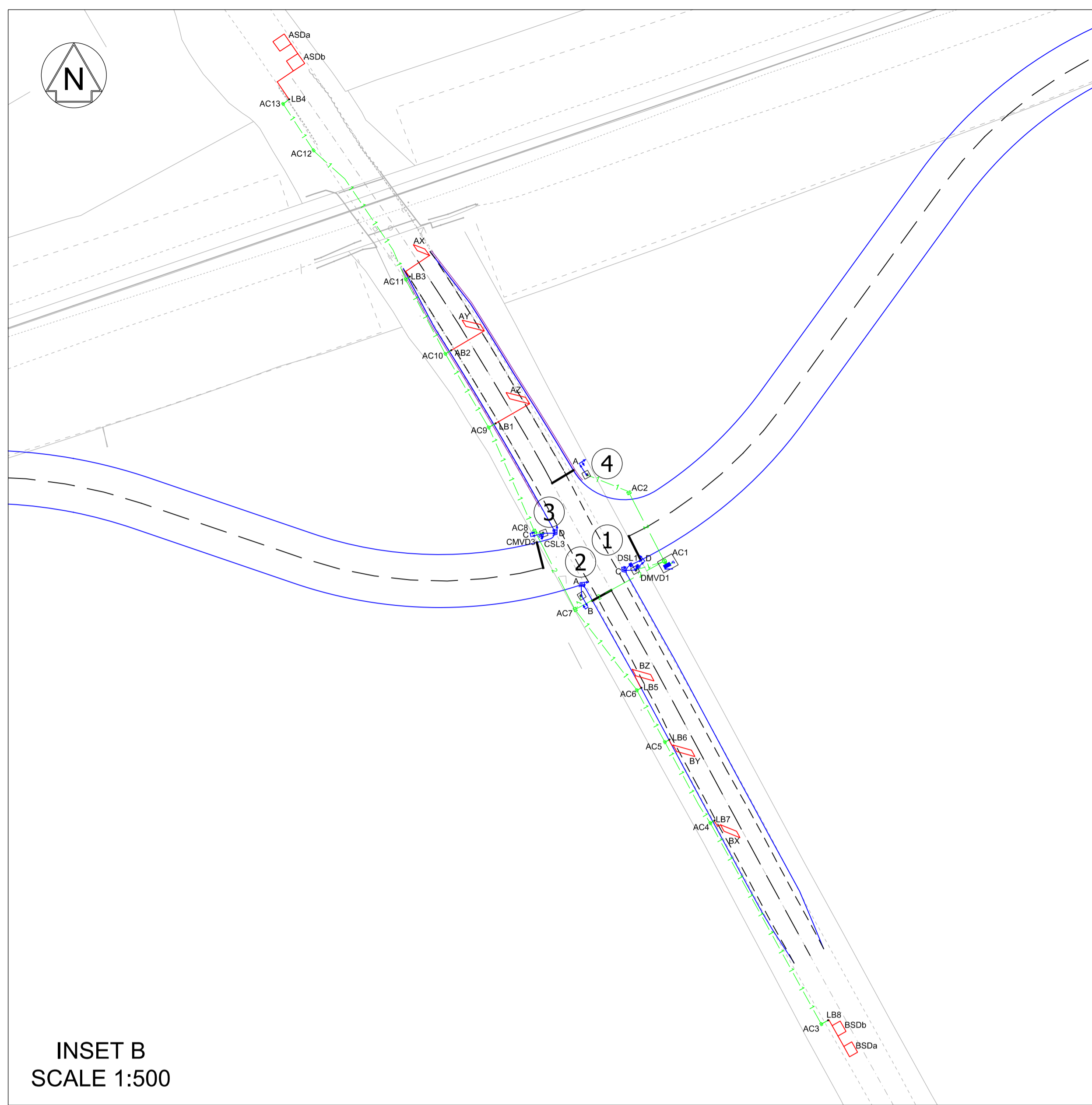
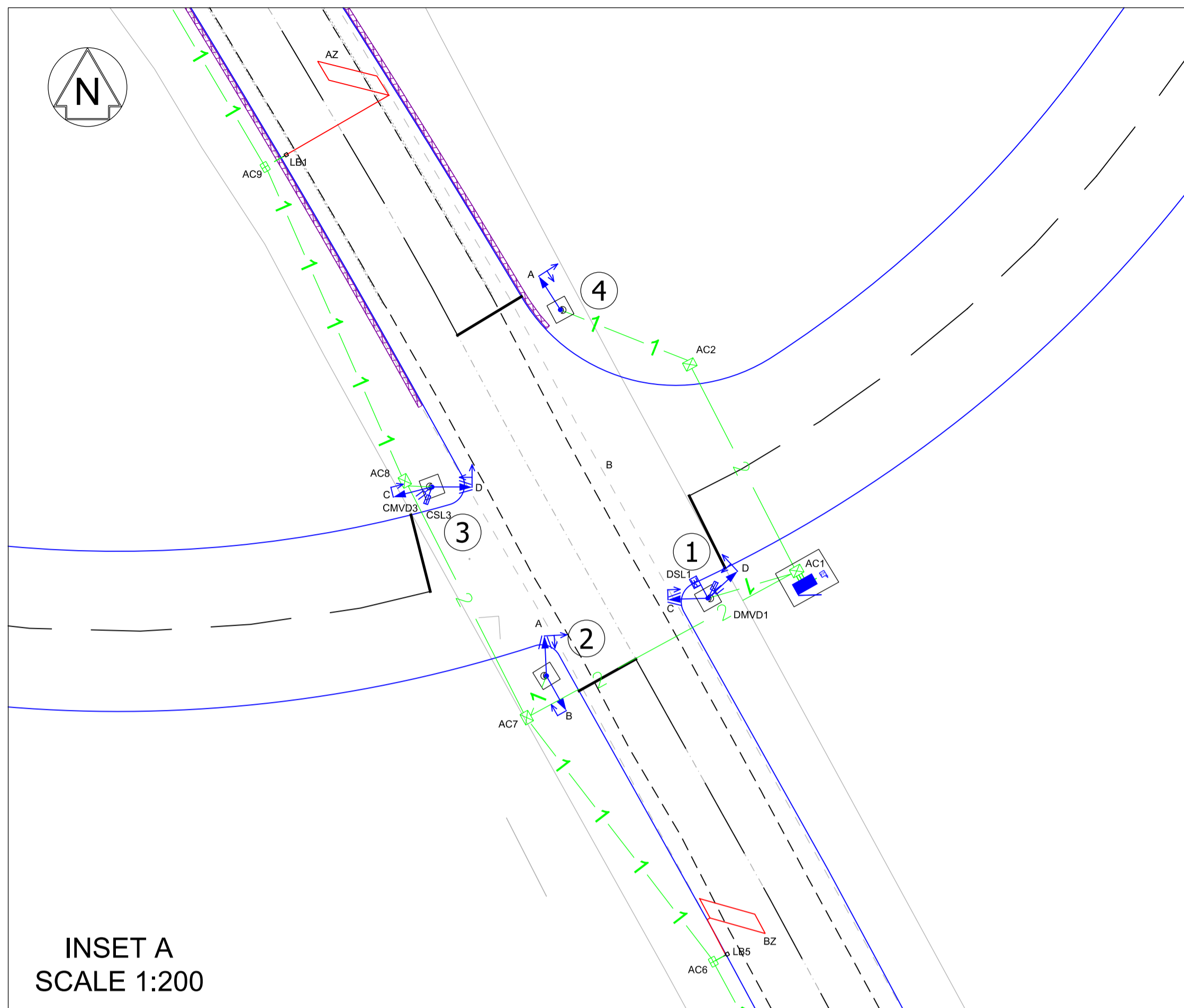
- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE

VEHICLE DETAILS

HGV 40t	
OVERALL LENGTH	8.400m
OVERALL WIDTH	2.600m
OVERALL BODY HEIGHT	3.380m
MIN BODY GROUND CLEARANCE	0.363m
MAX TRACK WIDTH	2.600m
LOCK TO LOCK TIME	6.00s
KERB TO KERB TURNING RADIUS	11.550m

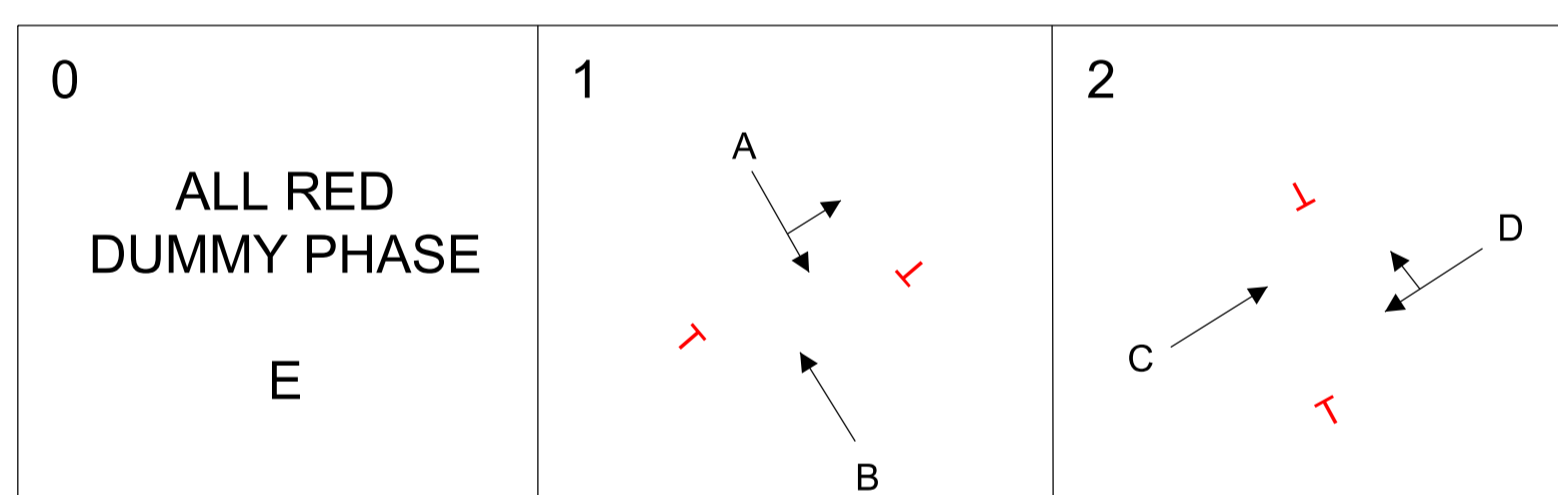
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SCALE 1:250
@ A1 SHEET SIZE



- NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)**
- NOTES:**
1. ALL TRAFFIC SIGNAL EQUIPMENT TO BE ELV.
 2. ALL TRAFFIC SIGNAL ASPECTS TO BE CLS LED TYPE.
 3. SIGNAL DIMMING IS TO BE PROVIDED. THE SOLAR CELL TO BE INSTALLED ON THE POLE INDICATED ON THE DRAWING.
 4. RED LAMP MONITORING IS TO BE PROVIDED.
 5. SIGNAL POLES, CONTROLLER CABINET AND BASE, AND FEEDER PILLAR ARE TO BE GREY IN COLOUR AND IN ACCORDANCE WITH THE APPENDIX 12/5.
 6. SIGNAL POLE LOCATIONS TO BE AS SHOWN ON THIS SIGNAL DRAWING. POLE LOCATIONS ARE TO BE MARKED ON THE GROUND AND THE POSITION AGREED WITH THE SIGNAL DESIGN ENGINEER BEFORE INSTALLATION.
 7. ALL SIGNAL POLES ARE TO BE SECURED IN SIGNAL POLE RETENTION SOCKETS 'DUCK FOOT' TYPE. RETENTION SOCKETS ARE TO BE CONNECTED TO THE ASSOCIATED FOOTWAY ACCESS CHAMBER BY 1 X 100mm DIA SIGNAL DUCT.
 8. ALL 100mm SIGNAL DUCTS ARE TO BE PROVED AFTER INSTALLATION AND HAVE A DRAW CORD FITTED. THE DRAW CORD IS TO BE SECURED AT EACH END IN ALL ACCESS CHAMBERS.
 9. SIGNAL HEADS ON POLES ARE TO BE MOUNTED WITH A MINIMUM CLEARANCE OF 2.1m ABOVE THE FINISHED FOOTWAY SURFACE LEVEL AND A MINIMUM OF 2.4m ABOVE THE FINISHED CYCLEWAY SURFACE LEVEL FOR CYCLEWAYS.
 10. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE APPENDIX 12/5 TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS AND APPENDIX 5/2 DUCTING REQUIREMENTS, CD 123 AND ANY OTHER DOCUMENTS ISSUED IN RELATION TO THESE WORKS.

- KEY:**
- HIGHWAY BOUNDARY
 - - - EXISTING ROAD EDGE
 - PROPOSED ROAD EDGE
 - - - PROPOSED WHITE ROAD MARKING
 - 600 x 450 ACCESS CHAMBER
 - 450 x 300 ACCESS CHAMBER
 - 50mm TRAFFIC SIGNAL DUCT
 - 100mm TRAFFIC SIGNAL DUCT
 - TRAFFIC SIGNAL CONTROL CABINET
 - TRAFFIC SIGNAL 'MINI' FEEDER PILLAR
 - TRAFFIC SIGNAL POLE 115mm DIA WITH 1m x 1m CONCRETE FOUNDATION
 - SIGNAL HEAD (AHEAD/LEFT)
 - SIGNAL HEAD (AHEAD/RIGHT)
 - MICRO-WAVE VEHICLE DETECTOR (MVD)
 - STOPLINE DETECTOR
 - PHOTO ELECTRIC CONTROLL UNIT (PE CELL)
 - SIGNAL POLE RETENTION SOCKET
 - CARRIAGEWAY LOOP BOX
 - DETECTOR LOOPS



SIGNAL EQUIPMENT SCHEDULE					
POLE NUMBER	POLE TYPE	SIGNAL HEAD	HOOD TYPE	SIGNAL DETECTION	OTHER EQUIPMENT
1	4m	1 x RAGa (AHEAD/RIGHT) 1 x RAGa (AHEAD)	PRIMARY SECONDARY	1 x MVD 1 x STOPLINE	1 x PECU
2	4m	1 x RAGa (AHEAD) 1 x RAGa (AHEAD/LEFT)	PRIMARY SECONDARY	-	-
3	4m	1 x RAGa (AHEAD) 1 x RAGa (AHEAD/RIGHT)	PRIMARY SECONDARY	1 x MVD 1 x STOPLINE	-
4	4m	1 x RAGa (AHEAD/LEFT) 1 x RAGa (AHEAD)	PRIMARY SECONDARY	-	-

DETECTOR SCHEDULE					
DETECTOR NUMBER	DETECTOR NAME	DISTANCE FROM STOPLINE (m)	PHASE(S) DEMANDED	PHASE(S) EXTENDED	DETECTOR TYPE
1	AX	39	A	A	LOOP
2	AY	25	-	A	LOOP
3	AZ	12	-	A	LOOP
4	ASD	79	-	-	LOOP
5	BX	39	B	B	LOOP
6	BY	25	-	B	LOOP
7	BZ	12	-	B	LOOP
8	BSD	79	-	-	LOOP
7	CSL3	POLE 3	C	C	RADAR
8	CMVD3	POLE 3	C	C	RADAR
9	DSL1	POLE 1	D	D	RADAR
10	DMVD1	POLE 1	D	D	RADAR

CHAMBER AND LOOP BOX SCHEDULE			
CHAMBER NUMBER	CHAMBER SIZE (mm)		LOOP BOX
	600 x 450	450 x 300	
AC1	1	-	-
AC2	1	-	-
AC3	-	1	LB8
AC4	-	1	LB7
AC5	-	1	LB6
AC6	-	1	LB5
AC7	1	-	-
AC8	1	-	-
AC9	-	1	LB1
AC10	-	1	LB2
AC11	-	1	LB3
AC12	-	1	-
AC13	-	1	LB4

SIGNAL POLE RETENTION SOCKET SCHEDULE		
POLE/SOCKET NUMBER	DISTANCE FROM STOPLINE (m)	DISTANCE FROM KERBFACE (m)
1	1.5	1
2	1.5	1
3	1.5	1
4	1.5	1

ALL DISTANCES ARE TO THE CENTRE OF THE POLE RETENTION SOCKET POLE HOUSING

DUCT SCHEDULE				
FROM	TO	DUCT x No	DUCT DIA (mm)	DISTANCE (m)*
AC1	CONTROLLER	3	100	1
F/PILLAR	CONTROLLER	1	50	1
AC1	AC2	2	100	12
AC2	POLE 4	1	100	7
AC1	POLE 1	1	100	4
AC1	AC7	2	100	15
AC6	POLE 2	1	100	2
AC7	AC6	1	100	15
AC6	LB5	1	50	1
AC6	AC5	1	100	9
AC5	LB6	1	50	1
AC5	AC4	1	100	14
AC4	LB7	1	50	1
AC4	AC3	1	100	34
AC3	LB8	1	50	1
AC7	AC8	2	100	13
AC8	POLE 3	1	100	1
AC8	AC9	1	100	17
AC9	LB1	1	50	1
AC9	AC10	1	100	13
AC10	LB2	1	50	1
AC10	AC11	1	100	13
AC11	LB3	1	50	1
AC11	AC12	1	100	24
AC12	AC13	1	100	8
AC13	LB4	1	50	1

*ALL DISTANCES SHOWN ARE INDICATIVE

Rev	Date	Description of Revisions	Desd	Chkd	Appr	S.A.
B01	29/10/19	FOR INFORMATION				

SHARED - for Information

EWR Alliance
Connecting People

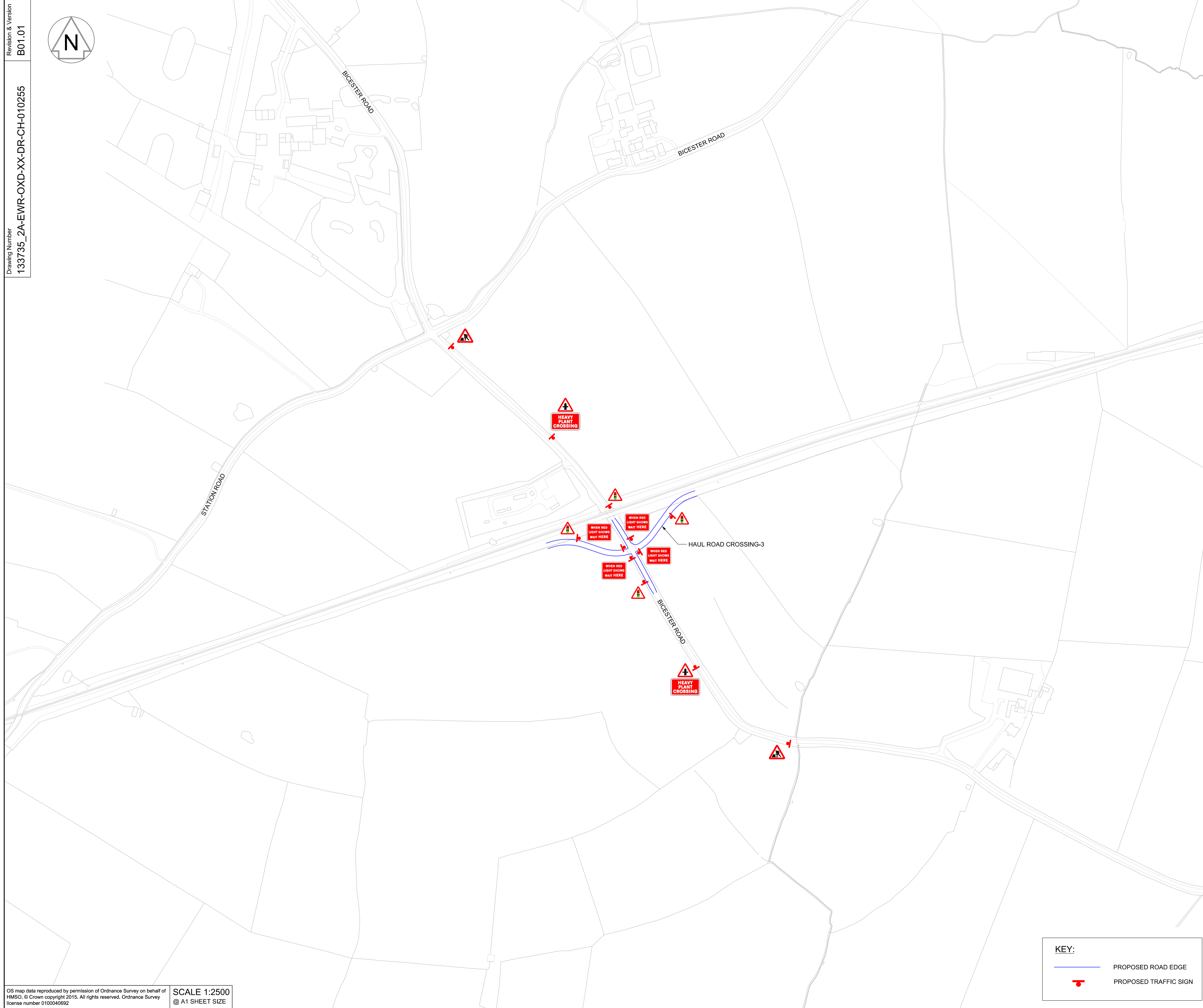
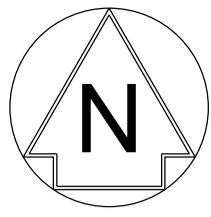
Project
East West Rail (Western Section) Phase 2

Drawing Title
HAUL ROAD CROSSING HRC_3 TRAFFIC SIGNAL LAYOUT

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	17/10/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	ELR - Project Chainage (Miles Yards)	AS SHOWN	OXD -
Design Package Risk Classification	Normal	Sheet	1 of 1
Alternative Reference		Revision	B01





NETWORK RAIL (EAST WEST
RAIL WESTERN SECTION PHASE 2)

NOTES:

1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
4. WHERE SITE CLEARANCE WORKS HAVE THE POTENTIAL TO IMPACT TREES OR HEDGES WHICH ARE TO BE RETAINED, AN ARBORICULTURALIST SHALL BE PRESENT TO ADVISE ON ROOT PROTECTION ZONE EXTENTS, ROOT PRUNING AND CROWN RAISING. WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS3998:2010.
5. SITE CLEARANCE, WHERE THERE IS PROXIMITY TO HABITAT OF PROTECTED SPECIES, SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED ECOLOGIST.
6. ALL SIGNS SHOWN HERE ARE INTENDED TO BE INSTALLED WITHIN THE HIGHWAYS BOUNDARY.



Rev	Date	Description of Revisions	Desd	Chkd	Appr
B01	28/10/19	FOR INFORMATION			

Status: SHARED - for Information S2



Project
**East West Rail
(Western Section)
Phase 2**

Drawing Title
**SIGNAGE STRATEGY DRAWING
FOR BUCKINGHAMSHIRE
COUNTY COUNCIL**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	24/10/19
Drawn	Ravikumar KN	Signed	R. KN	Date	10/06/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	25/10/19
Approved	Stephen Abe	Signed	S. Abe	Date	28/10/19

Scale(s)	1:2500	ELR - Project Chainage (Miles Yards)	OXD -
Design Package Risk Classification	Normal		Sheet
Alternative Reference			1 of 1
Drawing Number	133735_2A-EWR-OXD-XX-DR-CH-010255		Revision
			B01

KEY:

- PROPOSED ROAD EDGE
- PROPOSED TRAFFIC SIGN