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	@ A1 SHEET SIZ



REQUIRED PRECAUTIONARY METHODS AND AREAS OF EXCLUSION. 5. WHERE SITE CLEARANCE WORKS HAVE THE POTENTIAL TO IMPACT TREES OR HEDGES WHICH ARE TO BE RETAINED, AN ARBORICULTURIST 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. 6. SITE CLEARANCE, WHERE THERE IS PROXIMITY TO HABITAT OF PROTECTED SPECIES, SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED ECOLOGIST. 7. 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. 8. 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. 9. 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. 10.FOR CLARITY ONLY THE TRUNKS OF EXISTING TREES ARE SHOWN, FOR CANOPY EXTENTS THE TREE SURVEY MODEL AND MASTER SCHEDULE ARE TO BE REFERED TO. 11.FOR DETAILS OF AMENDMENTS TO STREET LIGHTING REFER TO DRAWING No. 133735_2A-EWR-OXD-CC_A1-DR-CH-002012. 12.THE EXISTING GULLY AND SUMP IS TO BE REMOVED TO ALLOW INSTALLATION OF THE PAVEMENT. THE GULLY OUTLET PIPE IS TO BE RETAINED. A DRAIN TEST PLUG (OR SIMILAR AGREED METHOD) IS TO BE INSERTED INTO THE END OF THE EXPOSED PIPE TO PREVENT DEBRIS AND FILL MATERIAL FROM ENTERING THE PIPE. THE POSITION OF THE PIPE SHALL BE SURVEY AS A RECORD OF ITS POSITION TO ALLOW A NEW GULLY TO BE REINSTATED IN THE FUTURE. DRAFT **** ACCESS TO COMPOUND A1 B01 18/12/19 FOR INFORMATION N.T. G.J. S.A. Rev Date Description of Revisions Dsnd Chkd Appr **SHARED - for Information S**2 **EWR** Alliance **Connecting Pe** East West Rail (Western Section) Phase 2 Drawing Title ACCESS TO COMPOUND A1 SITE CLEARANCE ^{Date} 16/12/19 Nagoth Thomas Ravi Kumar^{Signed} N. T. R. Kumar Drawn Ravikumar KN ^{ate} 18/12/18 R. KN Checked ^{Date} 16/12/19 Gareth Johnston G. Johnston ^{Date} 16/12/19 Signed Stephen Abe S. Abe ELR - Project Chainage (Miles Yards) OXD - 108820 1:250 Design Package Risk Classification Sheet Normal 1 of 1 Alternative Reference B01 Drawing Number 133735_2A-EWR-OXD-CC_A1-DR-CH-002003 Sheet Size A1 594 x 841

NETWORK RAIL (EAST WEST

RAIL WESTERN SECTION PHASE 2)

2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN

3. 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

PRESENCE OF PROTECTED SPECIES AND HABITAT. THE

ECOLOGIST SHALL THEN ADVISE EWR ALLIANCE ON THE

QUALIFIED ECOLOGIST SHALL INSPECT THE SITE FOR THE

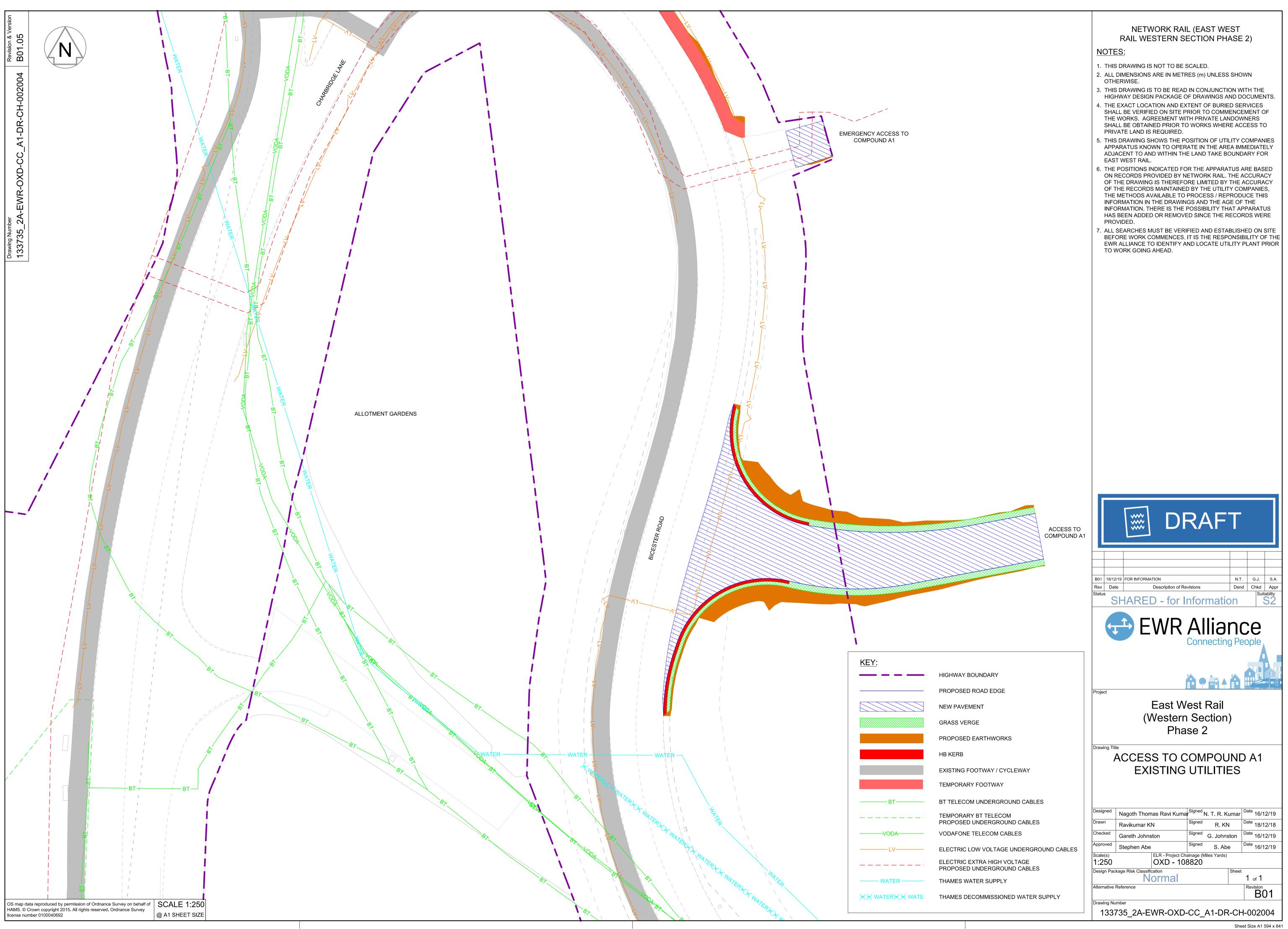
1. THIS DRAWING IS NOT TO BE SCALED.

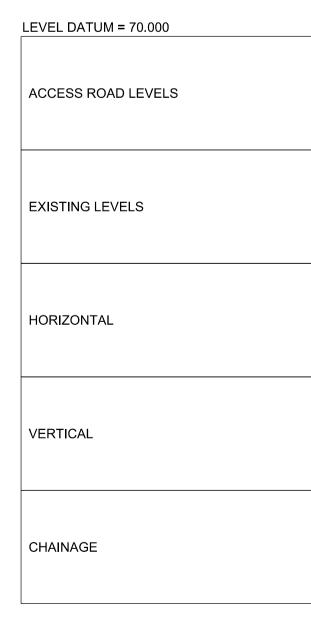
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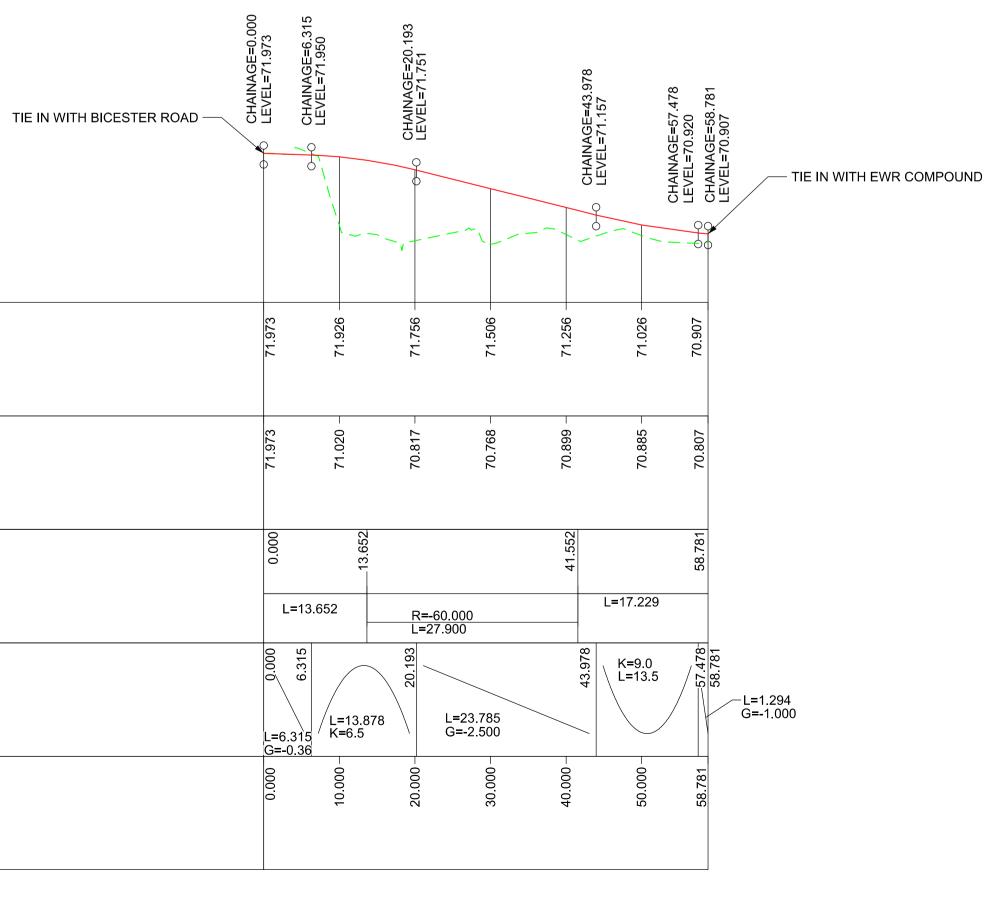
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- HB KERB
- EXISTING FOOTWAY / CYCLEWAY
- TEMPORARY FOOTWAY
- EXTENTS OF DE-VEGETATION

ELOCATE	DESCRIPTION
١E	LIGHTING COLUMN
١E	TRAFFIC SIGN
3	GULLY
Т	TREE TRUNK
	FENCE
١E	GATE
١E	INSPECTION CHAMBER
\sim	VEGETATION









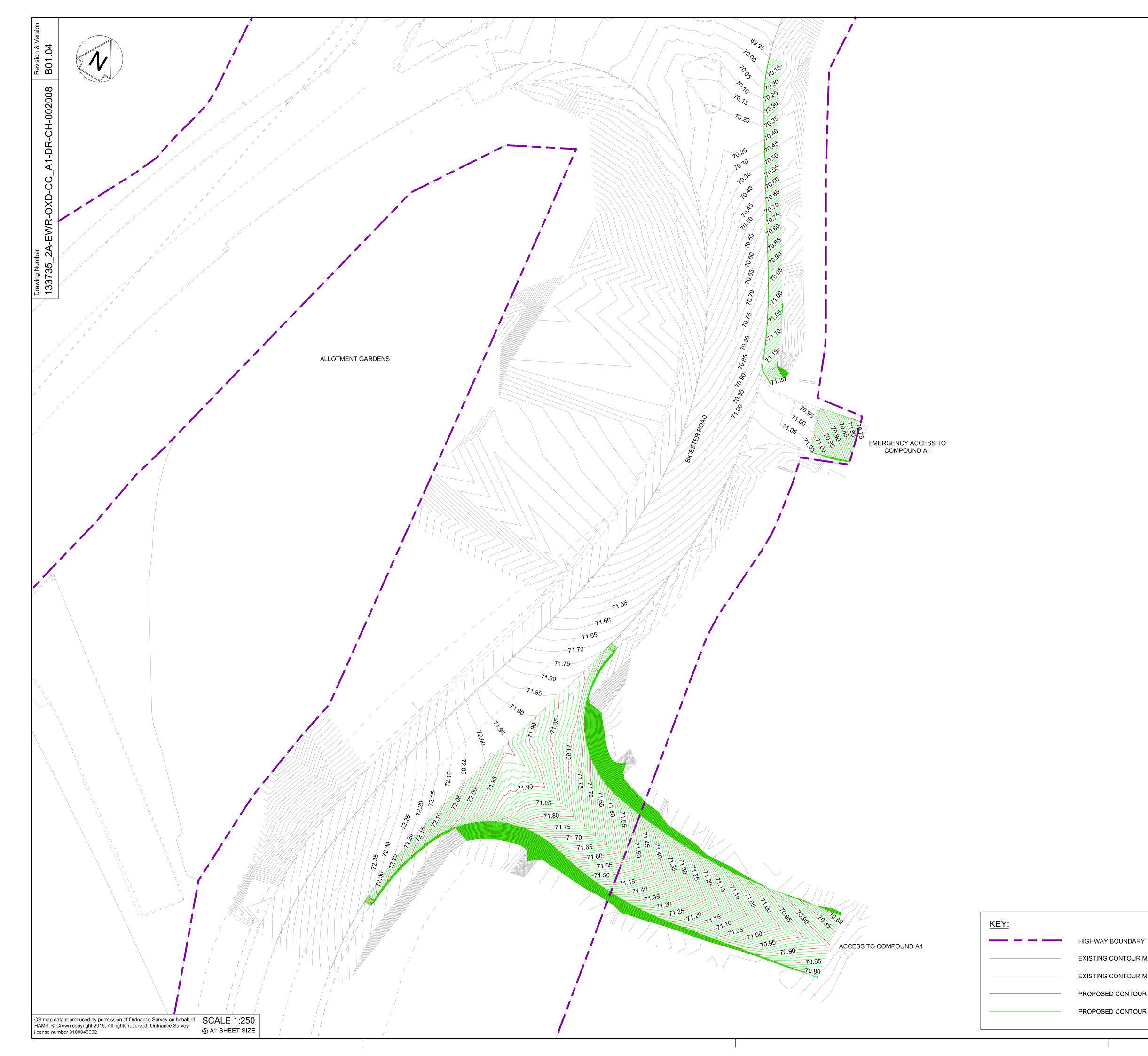
ROAD PROFILE SCALE = H - 1:500 V - 1:50

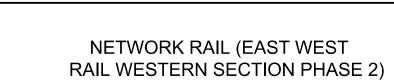
KEY:

	NETWORK RAIL (EAST WEST	
	RAIL WESTERN SECTION PHASE	2)
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	East West Rail (Western Section)	
	Phase 2	
	Drawing Title	
	ACCESS TO COMPOUNI	D A1
	ROAD PLAN AND PROF	ILE
	Designed Nagoth Thomas Ravi Kumar ^{Signed} N. T. R. Kumar	
	Nagoth Thomas Ravi Kumar N. T. R. Kumar	^{Date} 18/12/18
	DrawnRavikumar KNSignedR. KNCheckedGareth JohnstonSignedG. JohnstonApprovedStephen AbeSignedS. Abe	
	Drawn Ravikumar KN Signed R. KN Checked Gareth Johnston Signed G. Johnston Approved Stephen Abe Signed S. Abe Scale(s) ELR - Project Chainage (Miles Yards) OXD - 108820	Date 18/12/18 Date 16/12/19 Date 16/12/19
/EL	Drawn Ravikumar KN Signed R. KN Checked Gareth Johnston Signed G. Johnston Approved Stephen Abe Signed S. Abe Scale(s) ELR - Project Chainage (Miles Yards)	Date 18/12/18 Date 16/12/19 Date 16/12/19

NEW ROAD EDGE LEVE EXISTING SURFACE LEVEL

Drawing Number





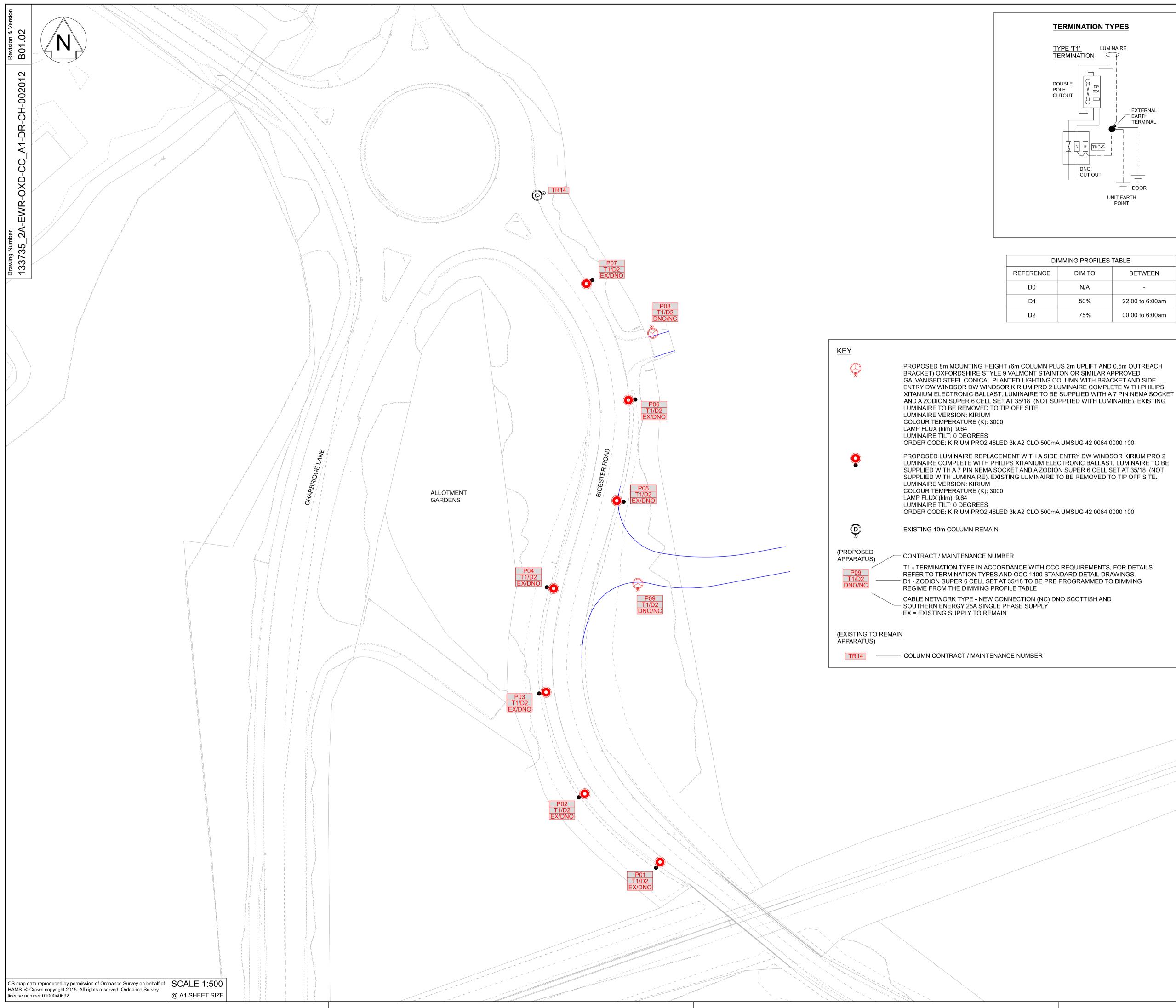
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- 1. THIS DRAWING IS NOT TO BE SCALED.
- 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
- 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
- 4. ALL WORKS TO BE IN ACCORDANCE WITH THE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

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	(Western	est Rail Section se 2)		
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Drawn Checked	Ravikumar KN	Signed R. KN	1	Date 17/1	
Approved	Gareth Johnston	G. Johns		Date 16/1	
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- PROPOSED CONTOUR MAJOR @ 0.05m INTERVALS
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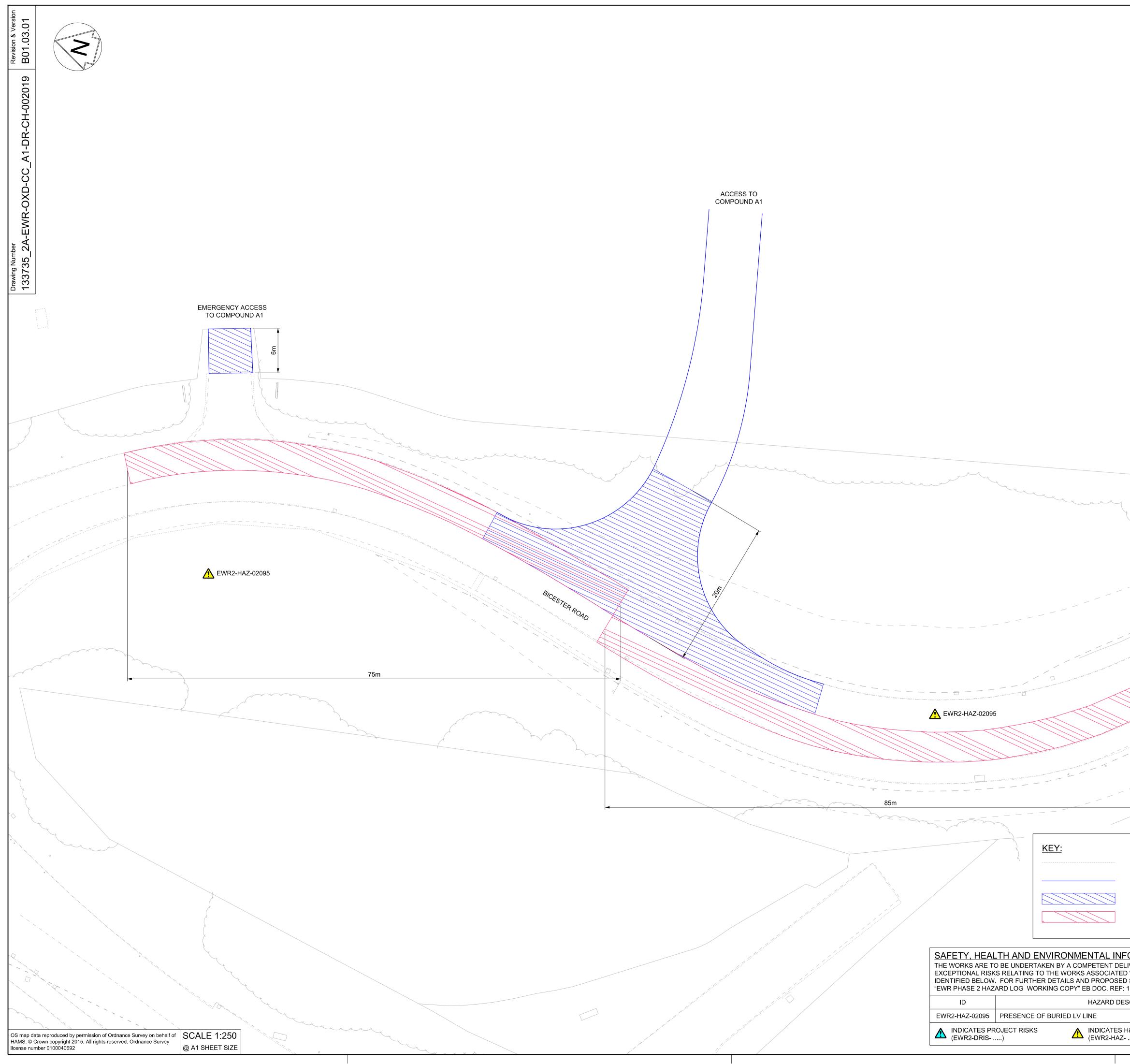
NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

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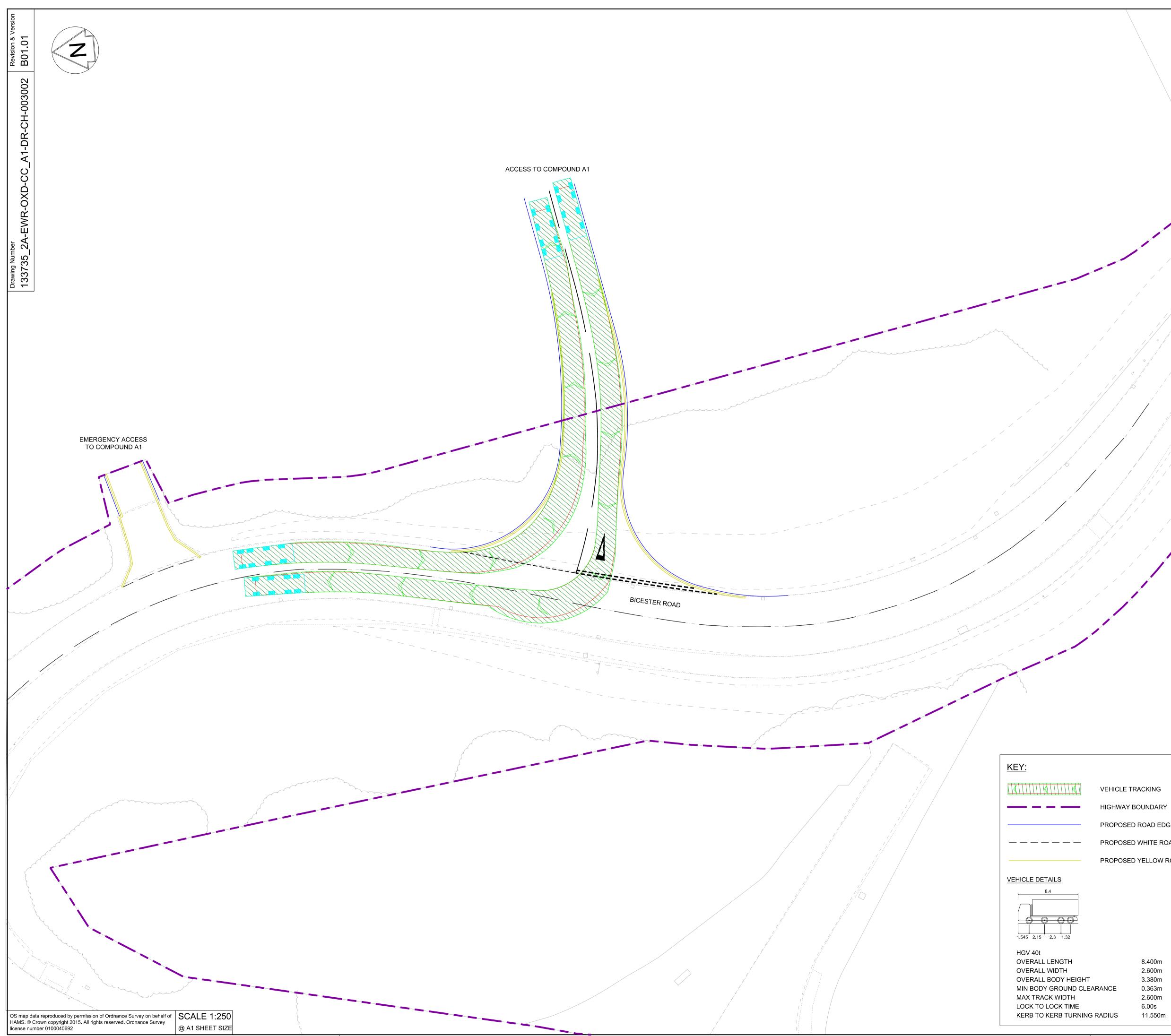
ALL EQUIPMENT AND INSTALLATION WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE OCC ROAD LIGHTING GENERAL SPECIFICATION DOCUMENT AND THE MOST RECENT REVISION OF STANDARD DETAIL DRAWINGS HSD-13-002, HSD-13-006, HSD-13-007, HSD-13-008, HSD-13-021, HSD-14-005, HSD-14-015, HSD-14-017.

- 1. ALL LIGHTING COLUMNS SHALL BE SUITABLE FOR THE FITMENT, WEIGHT AND WINDAGE OF THE LUMINAIRE SPECIFIED AND DESIGNED IN ACCORDANCE WITH THE SPECIFICATION. LIGHTING COLUMN CONSTRUCTION NUMBERS SHOWN ON THE DRAWING. MAINTENANCE NUMBERS TO BE PROVIDED ON REQUEST BY THE MAINTAINING AUTHORITY.
- 2. LUMINAIRES TO BE FACTORY PAINTED GREEN (RAL 6013) PRIOR TO FITTING, SEE SPECIFICATION DOCUMENT 3. BOLLARDS TO BE INSTALLED AS PER STANDARD DETAIL
- DRAWINGS HSD/1200/003 AND 004. 4. ALL COLUMN POSITIONS TO BE AGREED BY THE MAINTAINING
- AUTHORITY PRIOR TO ERECTION . 5. ELECTRICAL WORK SHALL COMPLY IN ALL RESPECTS WITH THE 18TH EDITION OF THE I.E.T WIRING REGULATIONS
- BS:7671 AS AMENDED. 6. ON COMPLETION AN ELECTRICAL TEST CERTIFICATE FOR EACH LIGHTING COLUMN, ASSOCIATED WITH CABLE AND SWITCH GEAR SHALL BE COMPLETED AND RETURNED BY THE
- CONTRACTOR. 7. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONSTRUCTION, DESIGN AND MANAGEMENT REGULATIONS WHERE THE EXTENT OF THE WORKS IS SUCH THAT THE REGULATIONS APPLY. PRECAUTIONS MUST BE TAKEN TO ENSURE THAT NO DAMAGE IS CAUSED TO UNDER GROUND OR OVERHEAD SERVICES. BEFORE DIGGING OR ERECTING OR REMOVING EXISTING COLUMNS, REFERENCE SHOULD BE MADE TO:
- a. THE ILP CODE OF PRACTICE FOR ELECTRICAL SAFETY IN HIGHWAY ELECTRICAL OPERATIONS TOGETHER WITH THE ILP SUPPLEMENT ENTITLED "SAFETY DURING THE INSTALLATION AND REMOVAL OF LIGHTING COLUMNS AND SIMILAR STREET FURNITURE IN PROXIMITY TO HIGH VOLTAGE OVERHEAD LINES"
- b. HEALTH AND SAFETY EXECUTIVE BOOKLET HS(G)47 "AVOIDING DANGER FROM UNDERGROUND SERVICES" AND H&SE GUIDANCE NOTE GS6 "AVOIDANCE OF DANGER FROM OVERHEAD ELECTRIC LINES" AND
- c. THE ELECTRICITY ASSOCIATION ENGINEERING RECOMMENDATION G39/1 SAFETY CODE OF PRACTICE E4 COVERING ELECTRICAL SAFETY AND PLANNING, INSTALLATION, COMMISSIONING AND MAINTENANCE OF PUBLIC LIGHTING AND OTHER STREET FURNITURE.
- 8. THE CONTRACTOR IS TO INVESTIGATE PROPOSED LIGHTING COLUMN LOCATION TO ENSURE IT'S CLEAR OF ALL UNDERGROUND INFRASTRUCTURE. IF OBSTRUCTION IS FOUND, THEN REPORT THIS TO THE ENGINEER.
- 9. CONTRACTOR SHALL CONFIRM LIGHTING LEVELS IF AN ALTERNATIVE LUMINAIRE IS PROPOSED.
- 10.FINAL LOCATIONS OF STREET LIGHTING TO BE CONFIRMED WITH FINAL LOCATION OF TREES.

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PROPOSED ROAD EDGE		ACCESS TO C PAVEMEN		
NEW PAVEMENT - TYPE F1				
(FLEXIBLE PAVEMENT) HIGH FRICTION SURFACING				
	Designed		Signed	Date
FORMATION	Drawn Checked	Tamsin Leaman-Hewitt	Signed Signed	lewitt ^{Date} 22/01/20
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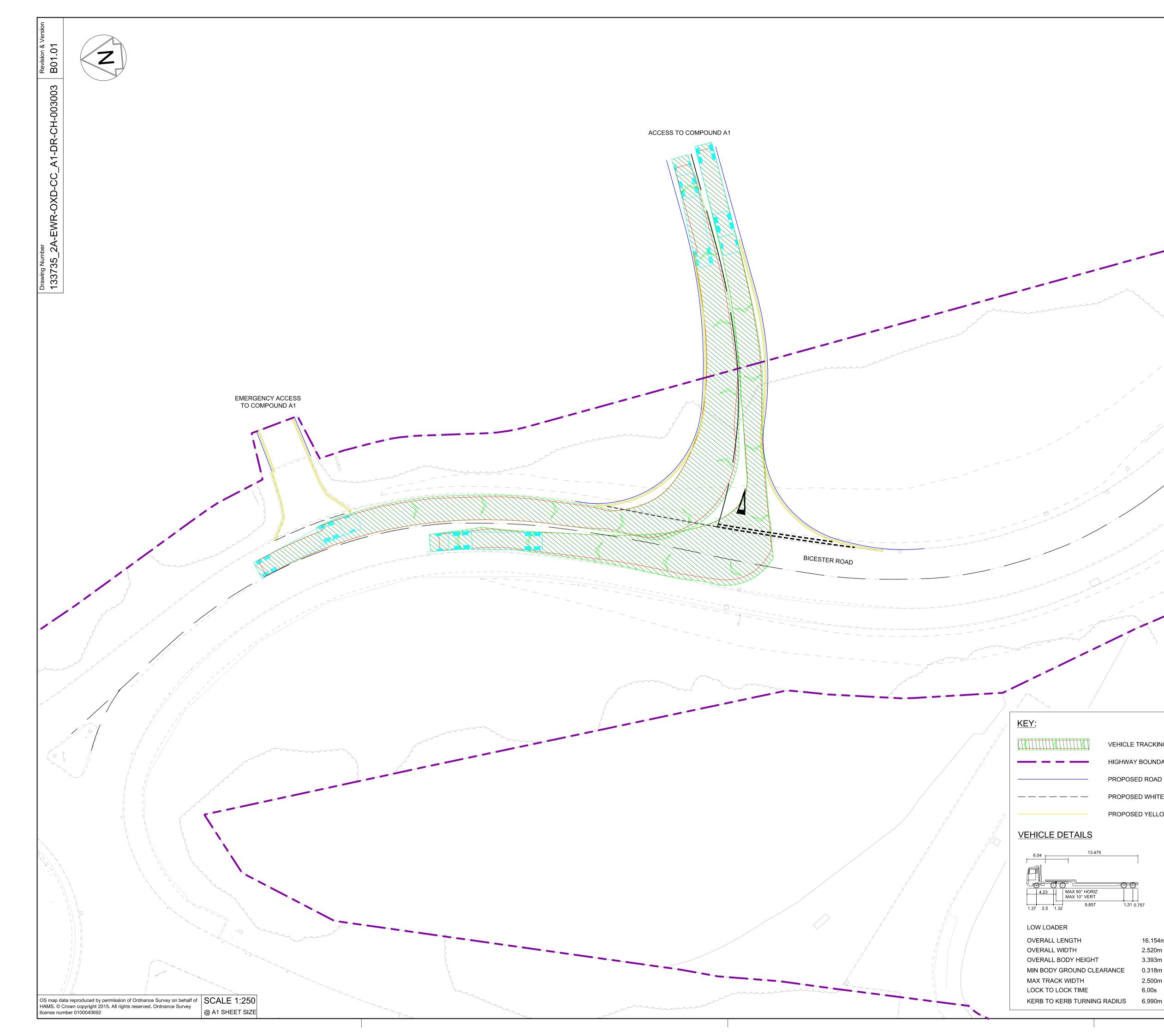
- 1. THIS DRAWING IS NOT TO BE SCALED.
- 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
- 3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
- 4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEPT 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.

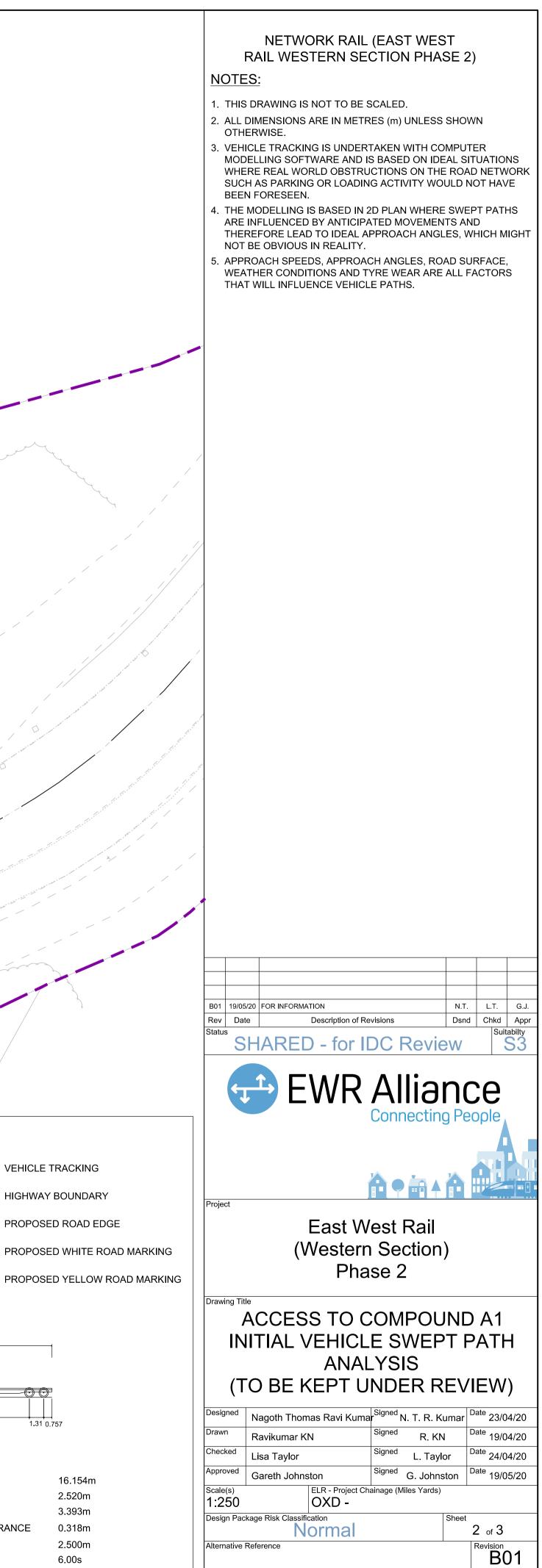
VEHICLE TRACKING

- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- PROPOSED WHITE ROAD MARKING
- PROPOSED YELLOW ROAD MARKING

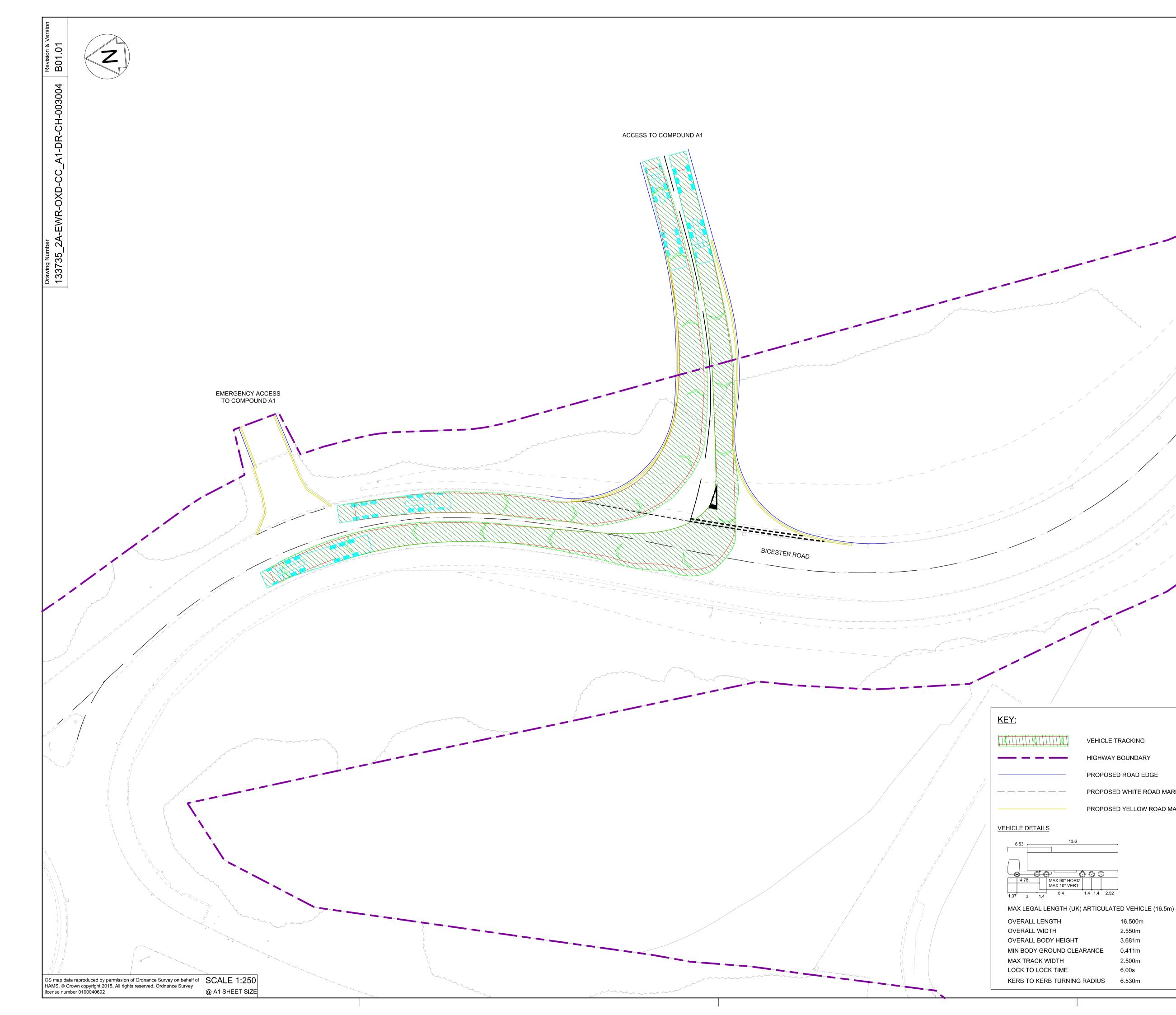
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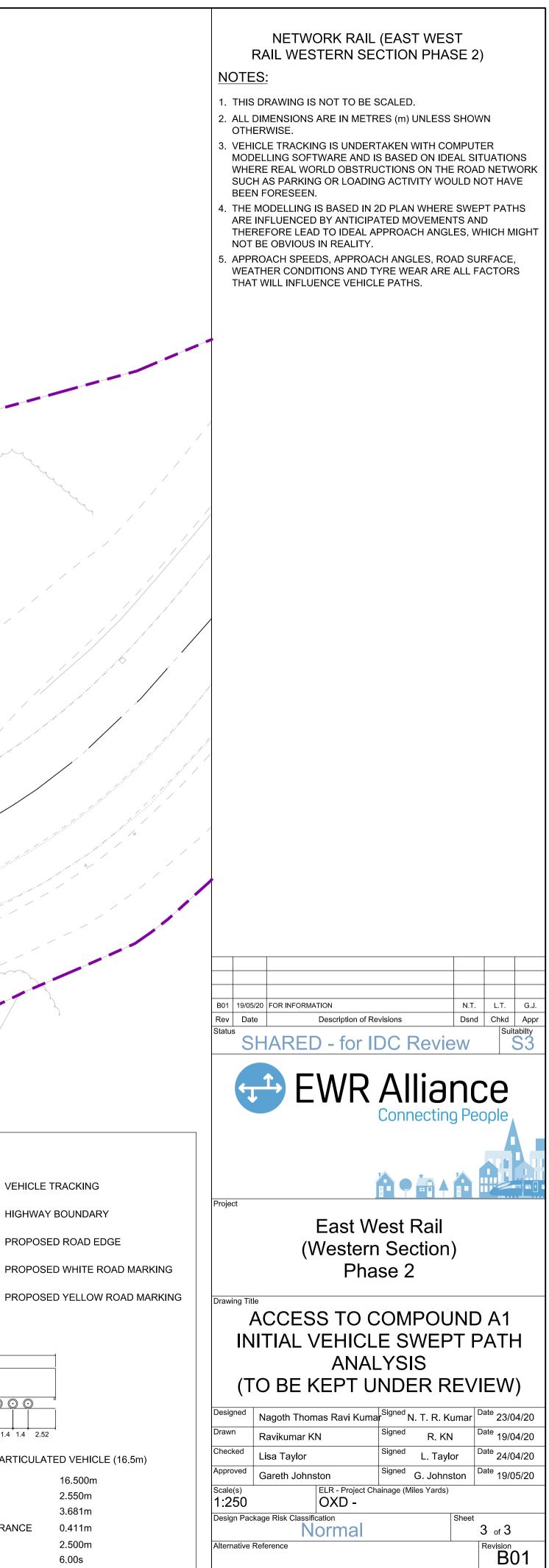
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Drawing Number			
133735	_2A-EWR-OXD-CC_	_A1-DR-CH	-003004

East West Rail Phase 2 Departure N019 133735_RW-EWR-XX-XX-RP-CH-000161



Departure Reference:	N019	Departure Type:	General
Document File	133735_RW-EWR-XX-XX-RP-	Local Highway	Oxfordshire County Council
Name:	CH-000161 Rev02	Authority:	

Departure Title:	Reduced visibility standard along the major road at A1 Compound (Bicester Road).
Departure Location:	Add the second secon
Supporting Information:	General Arrangement Drawing Number 133735_2A-EWR-OXD-CC_A1-DR-CH-003001 Visibility Splay Drawing Number 133735_2A-EWR-OXD-CC_A1-DR-CH-002018 Road Safety Audit Response Report
Consultations:	Oxfordshire County Council

DEPARTURE DETAILS

Relevant Standards:	DMRB, Volume 6, Section 2, Part 6, TD 42/95 DMRB, Volume 6, Section 2, Part 6, TD 9/93
Clause/Paragraphs:	TD 42/95, Para. 7.6c Volume 6 Section 2 Part 6 TD 42/95 c. The distance back along the minor road from which the full visibility is measured is known as the 'x' distance. It is measured back along the centreline of the minor road from the continuation of the line of the nearside edge of the running carriageway of the major road. The 'x' distance shall be desirably 9m (but see para 7.8). From this point an approaching driver shall be able to see clearly points to the left and right on the nearer edge of the major road running carriageway at a distance given in Table 7/1, measured from its intersection with the centreline



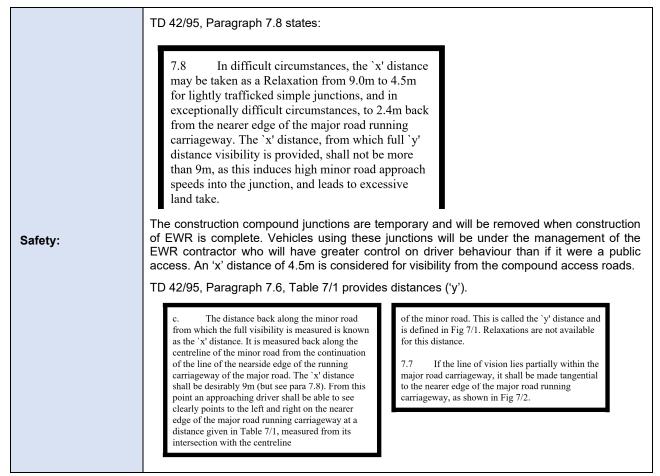
	Design Speed of Major Road (kph)	`y' Distance (m)	
	50 60 70 85 100 120 Table 7/1: `y' Visibility Distances from the M	70 90 120 160 215 295 Minor Road (Relaxations not available - para 7.6c)	
Departure Description:	Visibility from minor arm along major road is s	sub-standard.	
Associated Departures:	None		
Reason for Departure:	The junction listed above does not appear to the junction along the major road, for their res	provide the required visibility distance 'y' from spective posted speed limit.	

DESIGN DETAILS

Design Year Traffic Flow (AADT):	9,330 (2021)			
Design Speed:	Iocations North and S The 85th percentile s Mph (kph) N Site 1 32 Site 2 31 The figures in red are is to be applied in line 3.4 Speeds (improver Whereas for speed limits t and major/minor junctions design methods are based measurements are taken a suitable. Measurements m covered. If different value dry weather spot speed of correction factors should b For AP Dual carr	South of the coll speed survey re Jorthbound (2.7 (52.7) (0.5 (49.2) (2.7 (52.7)) (2.7 (52.7)) (2.7 (52.7)) (3.5 (49.2)) (3.5 (49.2)) (4.6 (49.2)) (4.6 (49.2)) (5.6 (49.2))	mpound access. esults are as follow Southbound 35.5 (57.2) 26.8 (43.2) calculation of SSD 1 Paragraph 3.4, w and junctions) y weather spot speed of for new major/minor junce to we tweather journey portant. A point just be h ends of the scheme so higher speed value show to the wet weather journey skph ct 4kph	f cars is required, for improvement of alignments netions or accesses on existing roads, the normal speed of vehicles. The precise point at which the fore the scheme length and a time of free flow are that traffic approaching from both directions is ald be used in the design process. To get from the mery speed used in design one of the following



JUSTIFICATION







	Design Speed of Major Road (kph) 50 60 70 85 100 120 Table 7/1: `y' Visibility Distances from the M The specified and achievable SSD in each dir in the table below (specified SSD has been car rates in line with TD 9/93, Table 3);		ection based on th	are shown	
	Location	Speed Survey	'v' dis	stance	
		/ TD22 Design Speed (kph)	'y' distance Specified (m) Achieved (m)		
	A1 Compound RHS	53	74	65 (TAN)	
	A1 Compound LHS	45	57	71	
	Visibility has been maximised as far as reasonably practicable. The constraints are beyond the control of EWR Alliance and it is not possible to amend the constraints or move the access location, due to requirements for maintenance and construction of EWR. Visibility to the LHS can be achieved. The RHS visibility is below the desirable minimum for the design speed. The reduced 'y' distance is due to the centre line of the road whereby vehicles travelling in the northbound direction may block visibility of oncoming southbound vehicles, hence limiting RHS visibility. In practice vehicle movements will be controlled and co-ordinated by the EWR contractor site team which will reduce the risk. Also, vehicles travelling in the northbound direction will not permanently block the vision of southbound traffic; therefore, when the northbound lane is free from traffic full visibility can be achieved.				
Congestion/Delay:	n/a				
Environment/ Sustainability:	It is not proposed to provide the full 'y' distance, as this would involve road geometry improvements that would not be economically viable for a temporary access.				
Accessibility:	n/a				
Maintenance:	Any vegetation trimming rec course of the works, with this	uired to provide the scarried out at the	he 'y' distances, v appropriate time	will be maintained of year.	d during the
Economic (whole life cost):	n/a				

MITIGATION

Risk Assessment Classification:	n/a
Other Options Considered:	n/a
Mitigation:	As noted in OCC's initial review High Frication Surfacing (HFS) is being installed as part of the design and 'Construction traffic caution' signage included. Also as requested by OCC, EWR Alliance will commit to apply for a TRO to restrict speeds to 30or40mph to allow consultees to decide whether this might provide appropriate and enhanced mitigation.



CONCLUDING COMMENTS

The design speed calculated at this location was 45/53kph which was lower than the posted speed of 50mph/80kph.

Observed 85th % survey speeds varied between 27mph and 36mph.

The sub-standard 'y' distance for A1 Compound in the RHS direction is due to the existing road geometry. It is considered that full visibility can be achieved across the highway centre line and that controlled vehicle movements from the site compound will reduce the risk at the junction. Also, it would not be economical to make highway alignment improvements for a temporary construction access.

As noted in OCC's initial review High Frication Surfacing (HFS) is being installed as part of the design as an additional mitigation.

Also as requested by OCC, EWR Alliance will commit to apply for a TRO to restrict speeds to 30or40mph to allow consultees to decide whether this might provide appropriate and enhanced mitigation. However, to date on the project EWR Alliance has been generally discouraged from applying for TROs and approval of this will not preclude works from commencing on site.

ALLIANCE ASSURANCE

	Name	Signed	Date
Originator	Andrew Kirk	Andrew Kirk	29/05/2020
Reviewer	Lisa Taylor	L.J. hogo	29/05/2020
Authorised	Gareth Johnston	Goill Shits	29/05/2020

LOCAL HIGHWAY AUTHORITY RESPONSE

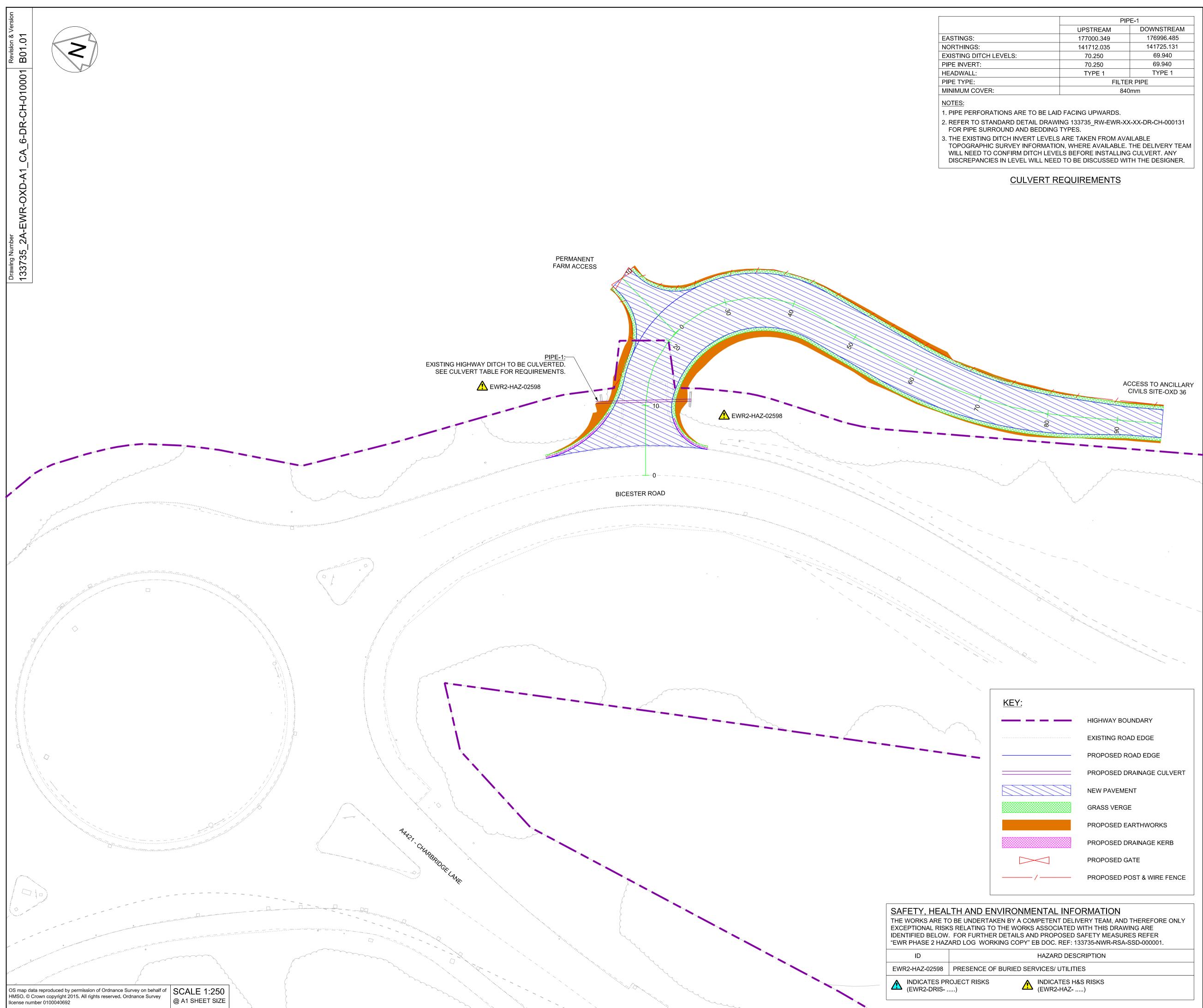
For completion by Local Highway Authority Representative

Category		Tick
1	Approved	
2	Approved with comments*	
3	Rejected with comments*	

Name	Position	Signed	Date

*comments are to be provided on the form provided. Responses will be provided back to the LHA on these forms and close out monitored. Link to template: <u>133735_RW-EWR-XX-XX-CM-CH-000002</u>

Note: Where comments impact upon a design decision or have multidiscipline impacts, they will be entered into BIMCollab the projects online issues management system.



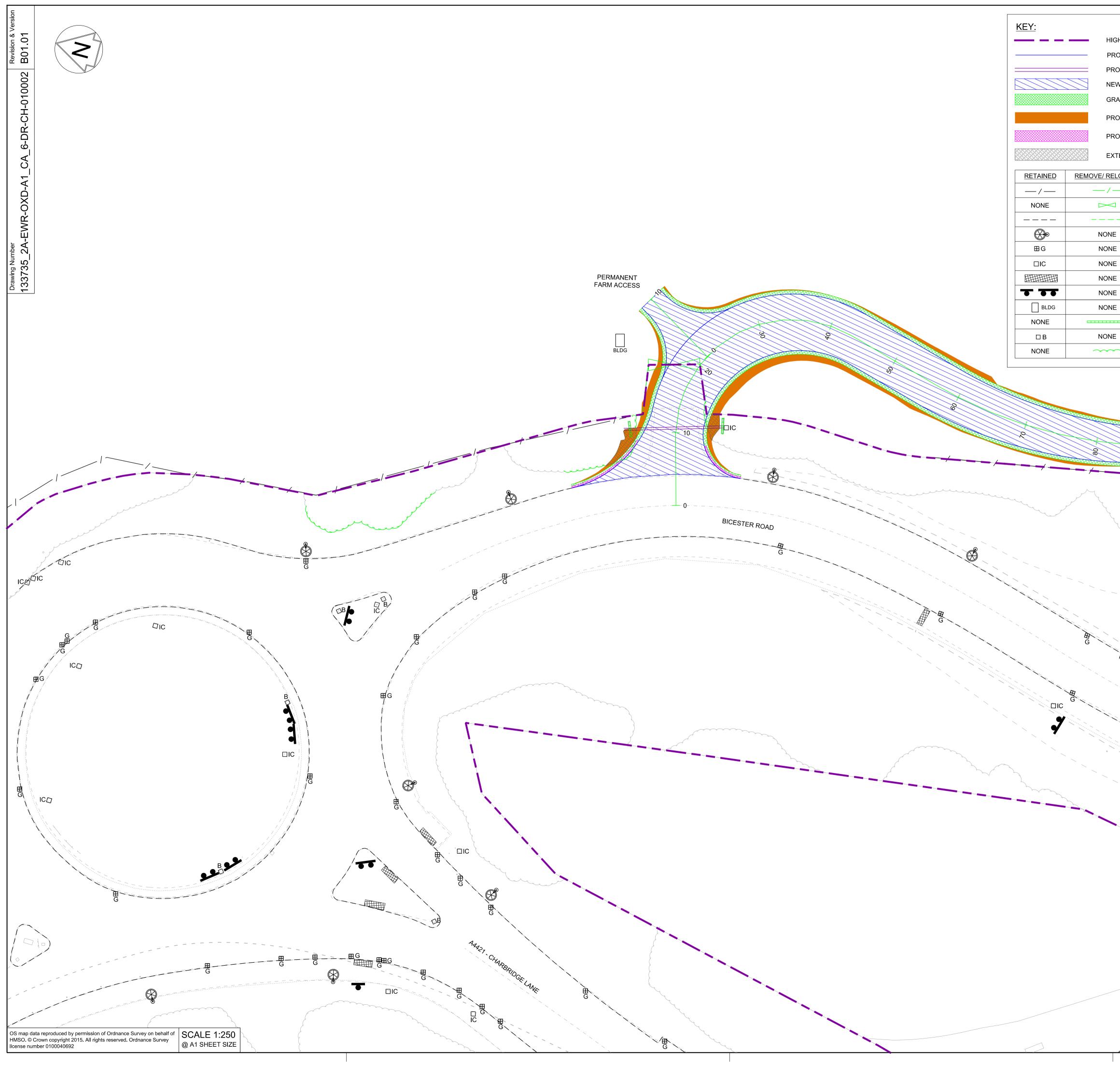
EASTINGS:	
NORTHINGS:	
EXISTING DITCH LEVELS:	
PIPE INVERT:	
HEADWALL:	
PIPE TYPE:	
MINIMUM COVER:	

PIPE-1			
UPSTREAM	DOWNSTREAM		
177000.349	176996.485		
141712.035	141725.131		
70.250	69.940		
70.250	69.940		
TYPE 1	TYPE 1		
FILTER PIPE			
840mm			



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- 5. WHERE A FENCE IS PROPOSED IT SHALL TIE-IN THE EXISTING HEDGEROW OR BOUNDARY TREATMENT TO PROVIDE A SECURE BOUNDARY.

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- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- PROPOSED DRAINAGE CULVERT
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- PROPOSED DRAINAGE KERB

EXTENTS OF DE-VEGETATION

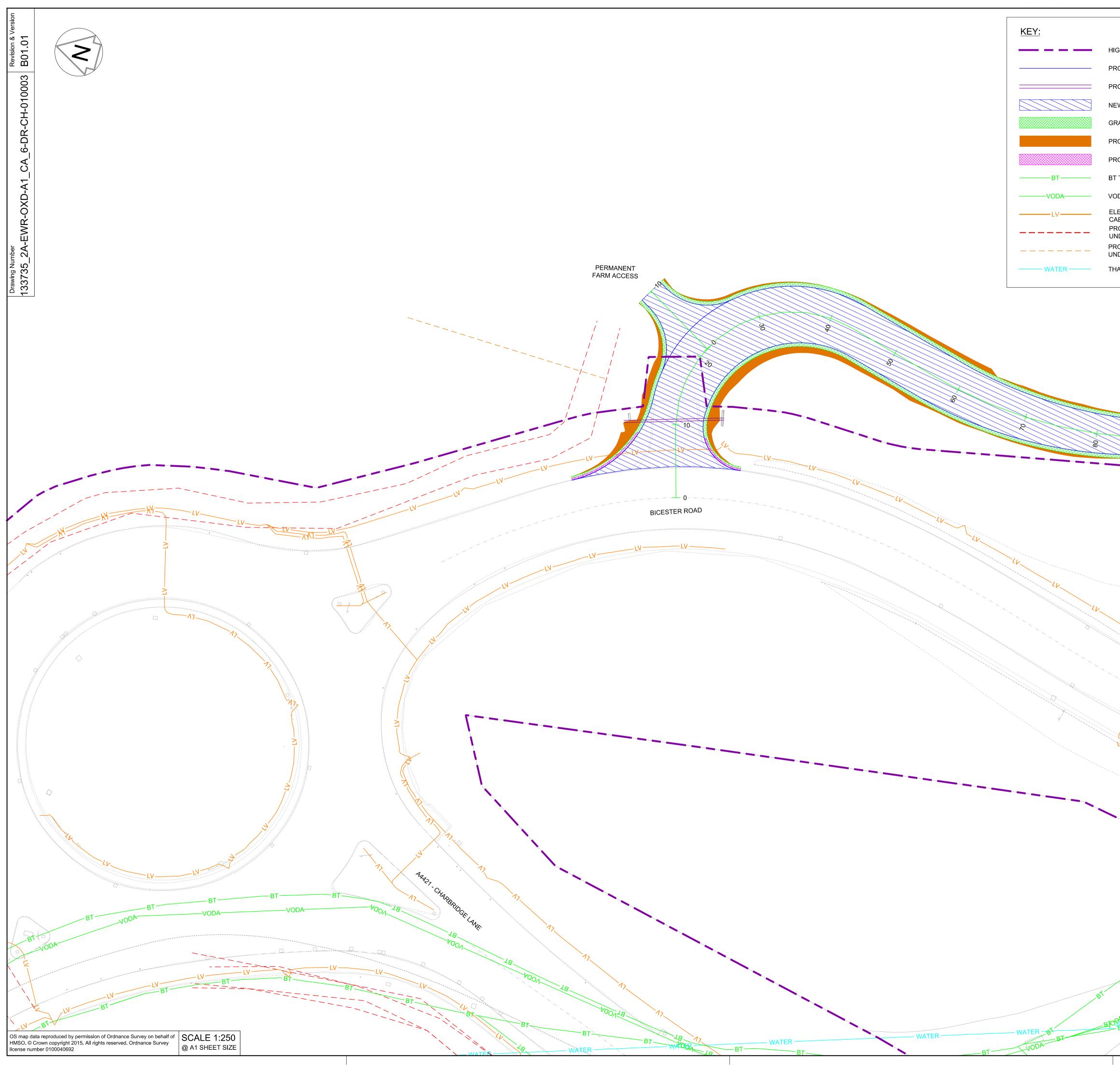
OCATE	DESCRIPTION
	FENCE
	GATE
—	KERB
	LIGHTING POLE
	GULLY
	INSPECTION COVER
	TACTILE PAVING SLAB
	TRAFFIC SIGN
	BUILDING
	WALL
	BOLLARD
	VEGETATION

ACCESS TO ANCILLARY CIVILS SITE-OXD 36

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

- 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. 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.
- 5. WHERE SITE CLEARANCE WORKS HAVE THE POTENTIAL TO IMPACT TREES OR HEDGES WHICH ARE TO BE RETAINED, AN ABORICULTURALIST 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.
- 6. SITE CLEARANCE, WHERE THERE IS PROXIMITY TO HABITAT OF PROTECTED SPECIES, SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED ECOLOGIST.
- 7. 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.
- 8. 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.
- 9. 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.
- 10.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.

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- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- PROPOSED DRAINAGE CULVERT
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- PROPOSED DRAINAGE KERB
- BT TELECOM UNDERGROUND CABLES
- VODAFONE TELECOM CABLES
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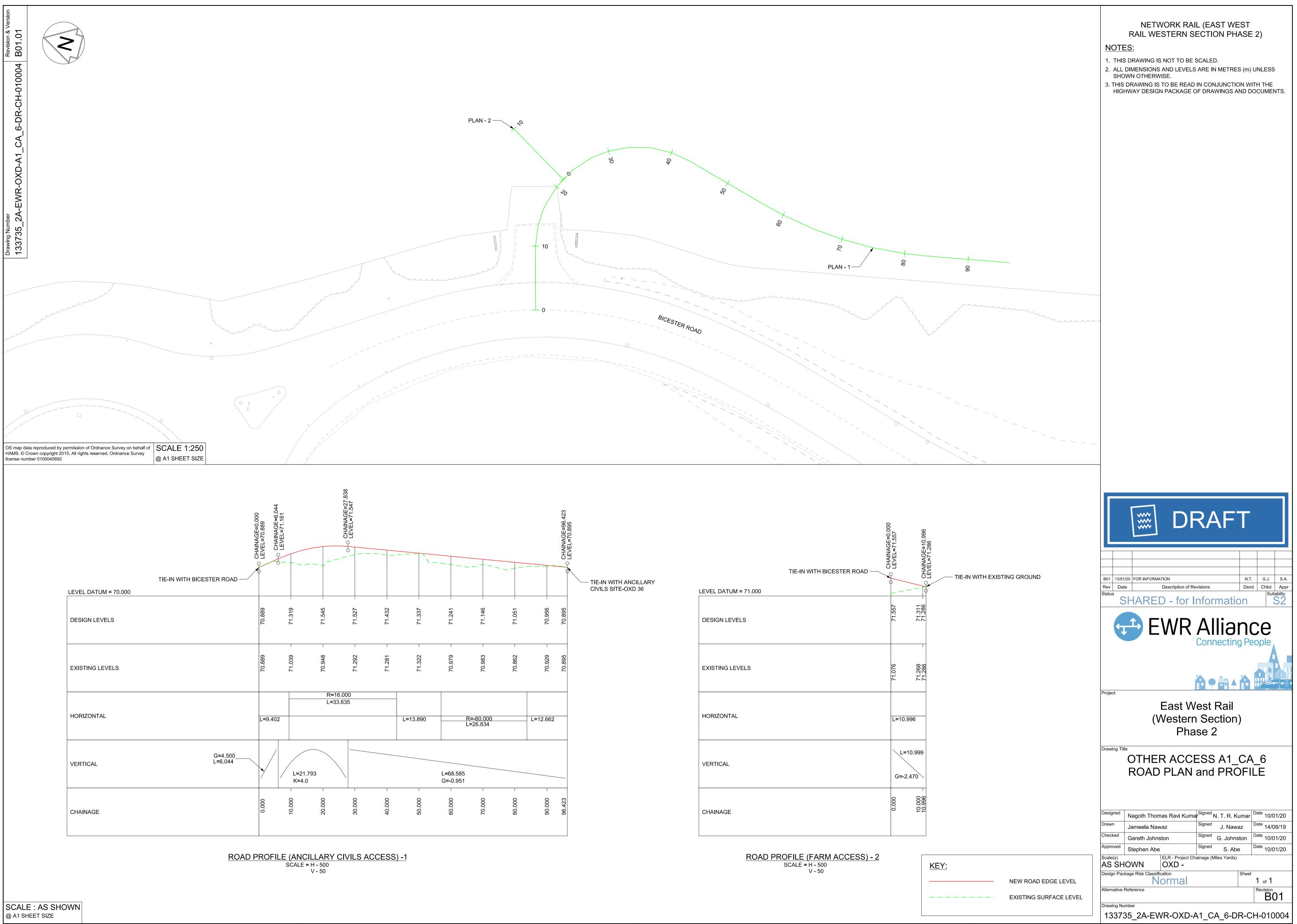
ACCESS TO ANCILLARY CIVILS SITE-OXD 36

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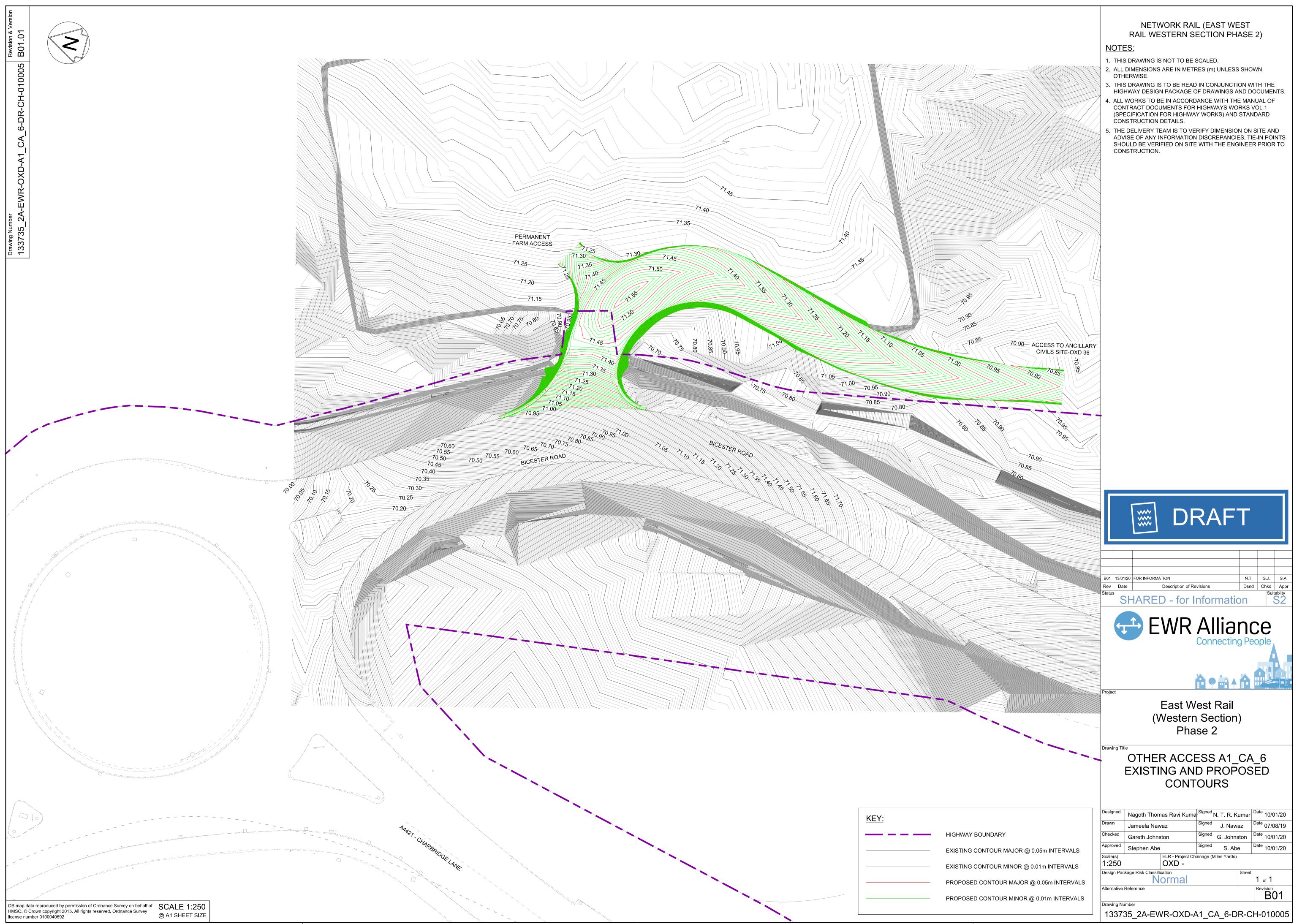
NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

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- 4. THE EXACT LOCATION AND EXTENT OF BURIED SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. AGREEMENT WITH PRIVATE LAND OWNERS 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.

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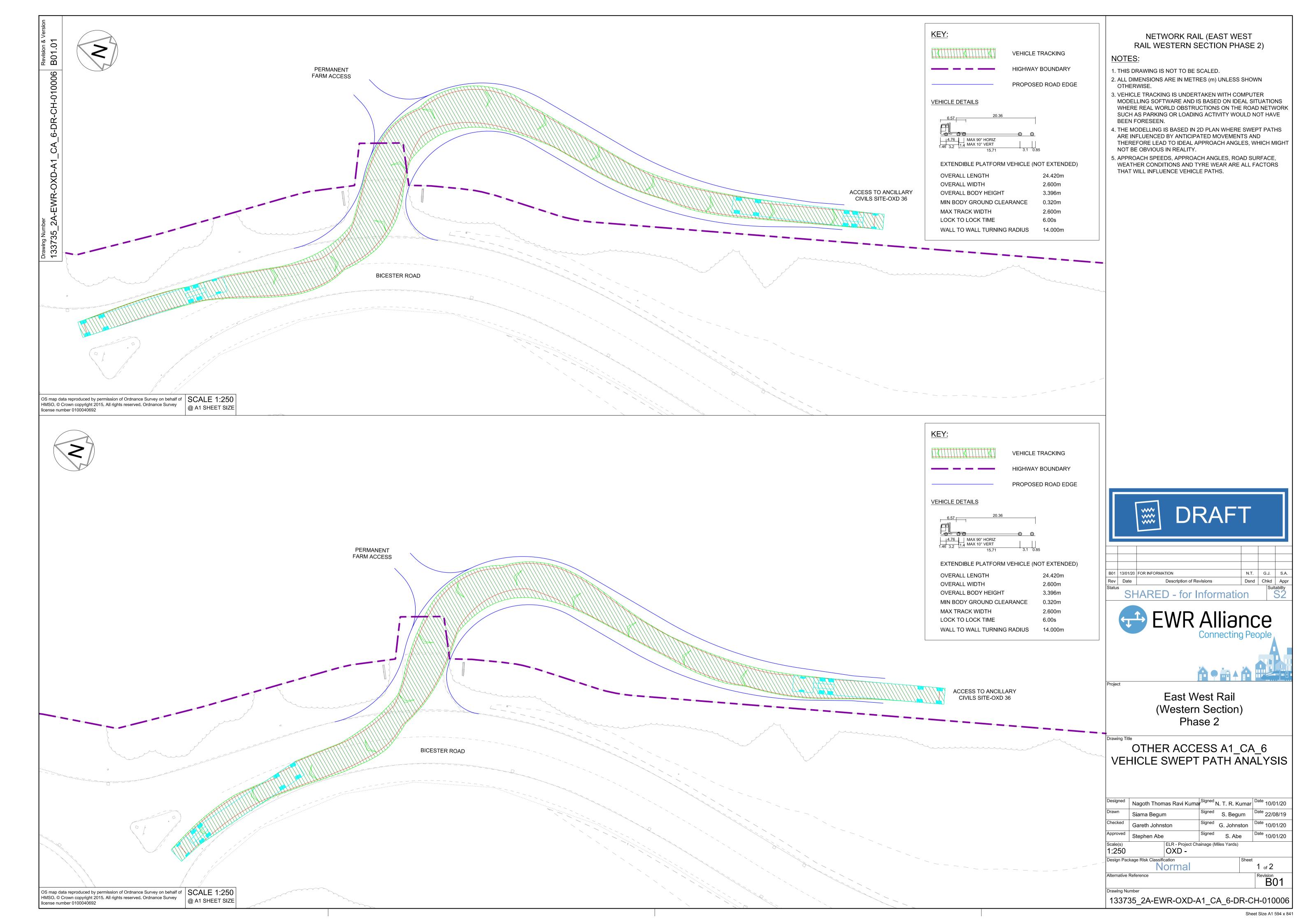


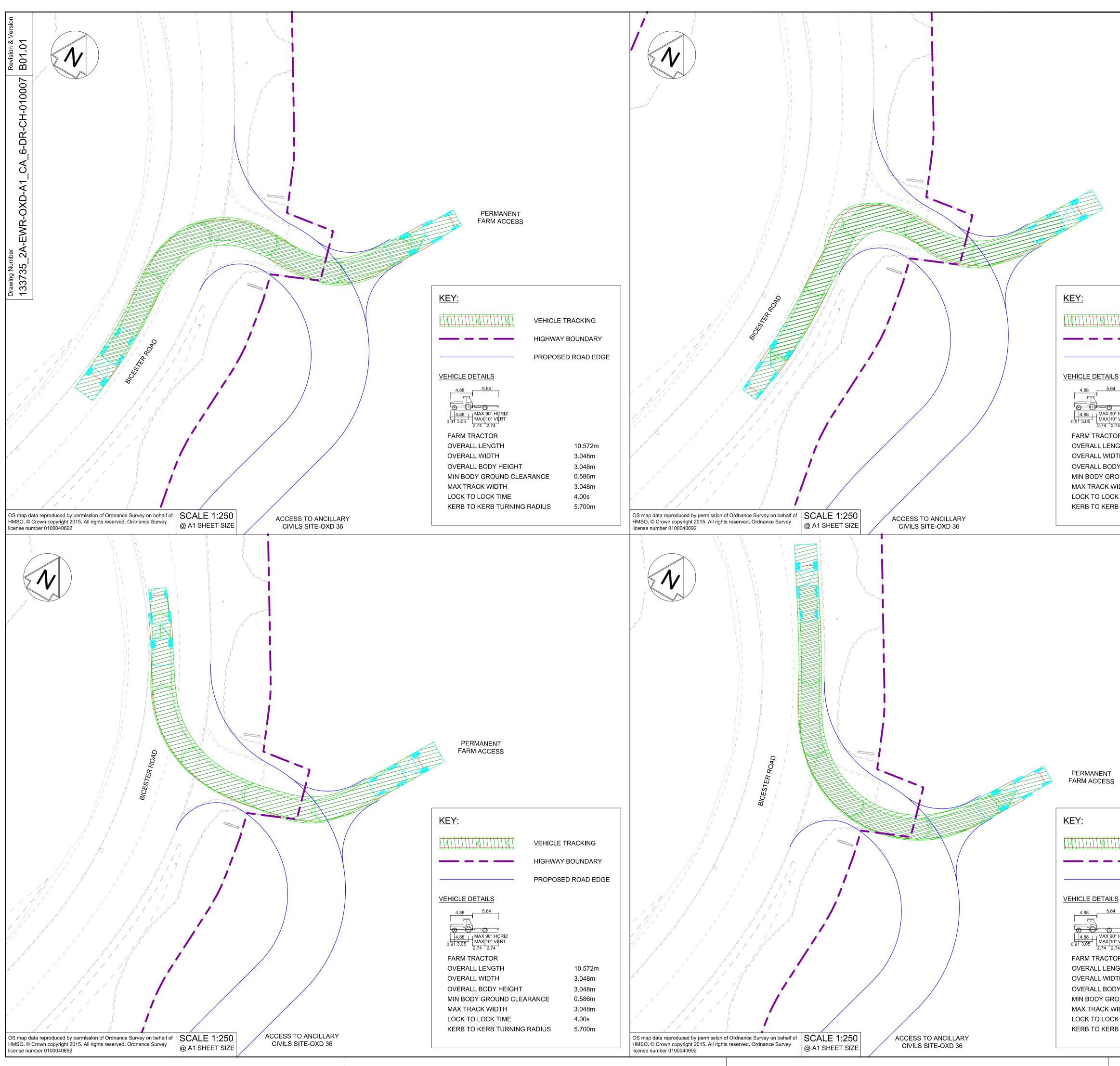
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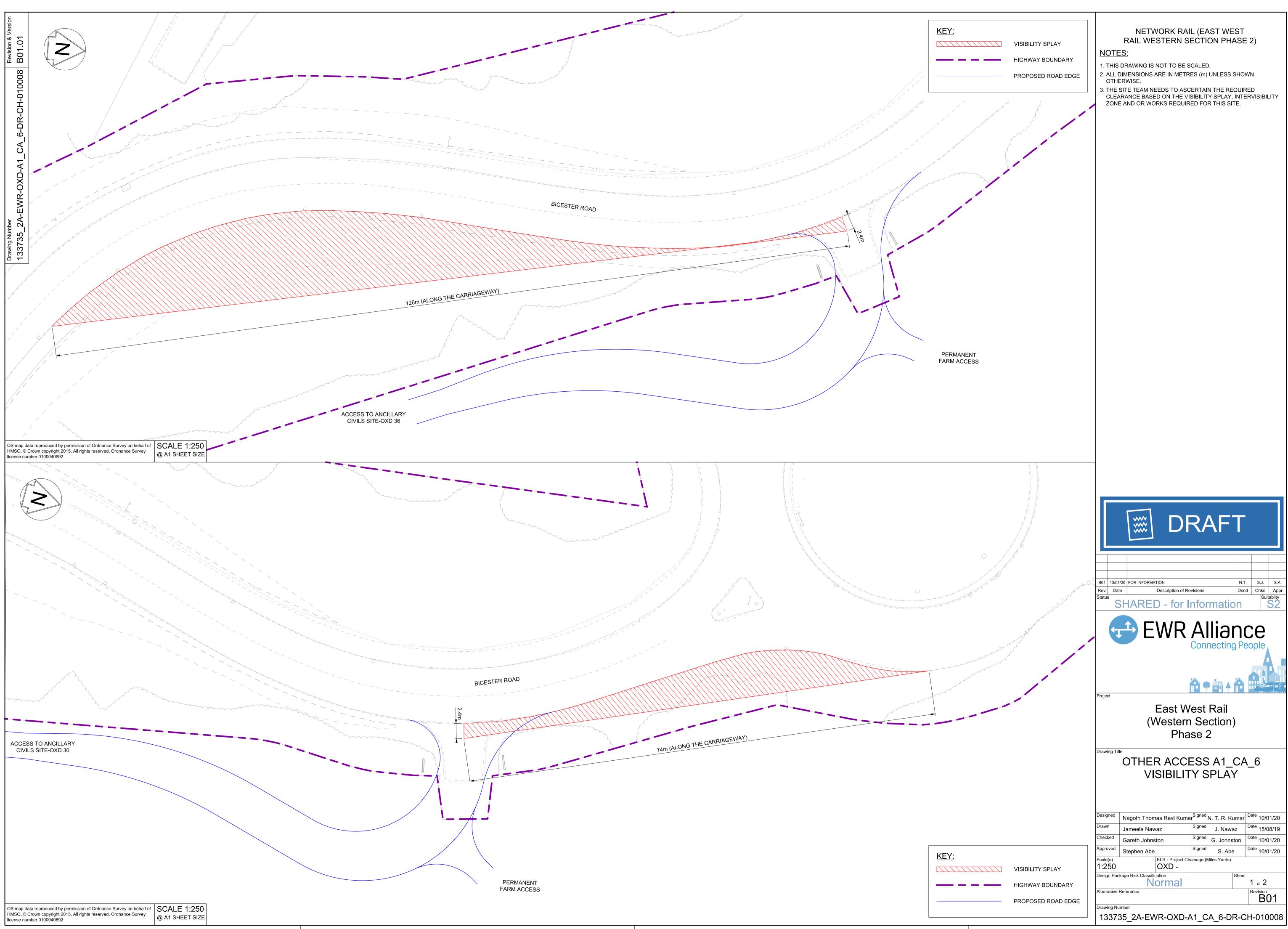
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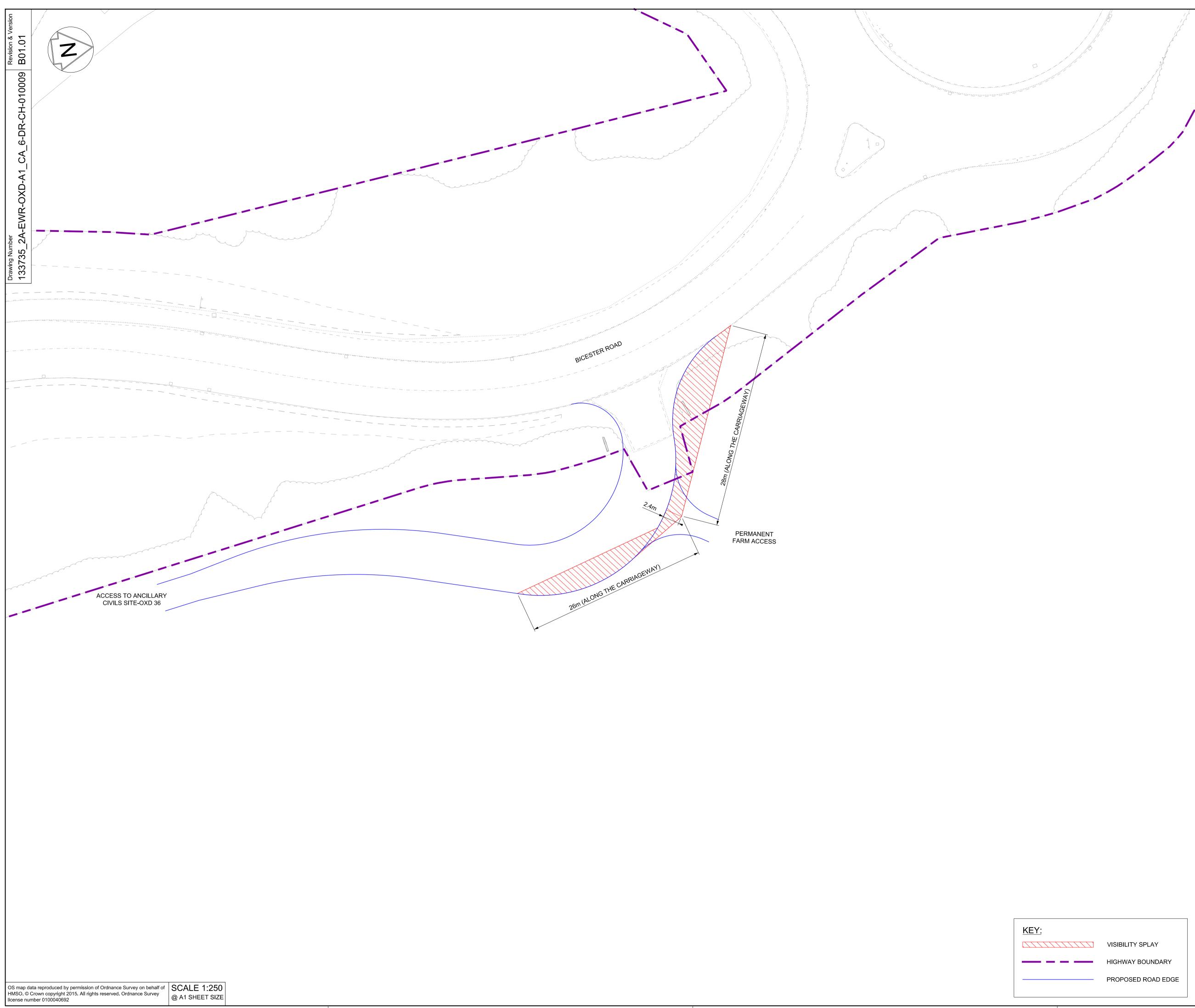




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	NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2) <u>NOTES:</u> 1. THIS DRAWING IS NOT TO BE SCALED. 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE. 3. VEHICLE TRACKING IS UNDERTAKEN WITH COMPUTER MODELLING SOFTWARE AND IS BASED ON IDEAL SITUATIONS WHERE REAL WORLD OBSTRUCTIONS ON THE ROAD NETWORK SUCH AS PARKING OR LOADING ACTIVITY WOULD NOT HAVE BEEN FORESEEN.
PERMANENT FARM ACCESS	 4. THE MODELLING IS BASED IN 2D PLAN WHERE SWEPT 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.
VEHICLE TRACKING HIGHWAY BOUNDARY PROPOSED ROAD EDGE	
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VEHICLE TRACKING HIGHWAY BOUNDARY PROPOSED ROAD EDGE LS 34	Drawing Title OTHER ACCESS A1_CA_6 VEHICLE SWEPT PATH ANALYSIS
O [°] HORIZ O [°] VERT 2.74 OR NGTH 10.572m OTH 3.048m DY HEIGHT 3.048m ROUND CLEARANCE 0.586m	Designed Nagoth Thomas Ravi Kumar Signed N. T. R. Kumar Date 10/01/20 Drawn Ravikumar KN Signed R. KN Date 03/12/19 Checked Gareth Johnston Signed G. Johnston Date 10/01/20 Approved Stephen Abe Signed S. Abe Date 10/01/20 Scale(s) ELR - Project Chainage (Miles Yards) Date 10/01/20 Design Package Risk Classification Sheet
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Sheet Size A1 594 x 841



<u>KEY:</u>

NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)

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Checked	Gareth Johnston	^{Signed} G. Johns	ton	^{ate} 10/01/20	
Approved	Stephen Abe	Signed S. Abe	, D	^{ate} 10/01/20	
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East West Rail Phase 2 Departure N016 133735_RW-EWR-XX-XX-RP-CH-000153



Departure Reference:	I NU16		General
Document File	133735_RW-EWR-XX-XX-RP-	Local Highway	Oxfordshire County Council
Name:	CH-000153	Authority:	

Departure Title:	Reduced visibility standard along the major road at A1_CA_6 Permanent Compound (Bicester Road).
Departure Location:	A4421 A1_CA_6
Supporting Information:	General Arrangement Drawing Number 133735_2A-EWR-OXD-A1_CA_6-DR-CH-010001 Visibility Splay Drawing Numbers 133735_2A-EWR-OXD-A1_CA_6-DR-CH-010008 133735_2A-EWR-OXD-A1_CA_6-DR-CH-010009
Consultations:	Oxfordshire County Council

DEPARTURE DETAILS

Releva	nt Standards:	DMRB, Volume 6, Section 2, Part 6, TD 41/95 DMRB, Volume 6, Section 2, Part 6, TD 9/93	
Clause	/Paragraphs:	: TD 41/95, Paragraph 2.22	



	2.22 The "Y" distance along the major road, the all purpose trunk road, shall be determined from Table 2/1: Design speed of 120 100 85 70 60 50 major road (kph) "Y" Distance (m) 295 215 160 120 90 70 Table 2/1: Value of "Y" Distance Note, these figures correspond to the Desirable Minimum Stopping Sight Distances set out in Table 3 in TD9 (DMRB 6.1.1) Relaxations are not available on these figures.			
Departure Description:	Visibility from minor arm along major road is sub-standard.			
Associated Departures:	None			
Reason for Departure:	The junction listed above does not appear to provide the required visibility distance 'y' from the junction along the major road, for their respective posted speed limit.			

DESIGN DETAILS

Design Year Traffic Flow (AADT):	Unknown					
	locations North ar deemed to be the A1_CA_6.	speed survey was carried out by Oxfordshire County Council on the Bicester Road at two ations North and South of the proposed temporary A1 compound access. Site 1 is emed to be the most appropriate location given its close proximity to Compound Access _CA_6. he 85th percentile speed survey results are as follows: -				
	Mph (kph)	Northbound	Southbound			
	Site 1	32.7 (52.7)	35.5 (57.2)	_		
Design Speed:	be applied in line 3.4 <u>Speeds (impr</u> Whereas for speed lin and major/minor junc design methods are by measurements are tak suitable. Measurement covered. If different v dry weather spot speet correction factors sho For AP Dual	with TD 22/81 Pa rovement of alignment nits the 85 percentile of tions or accesses, and ased on the 85 percent en and the timing is in the must be taken at bo ralues are obtained the of of vehicles measure uld be used - carriageways deduced the carriageways deduced the carriageways deduced	and junctions) (and junctions) (hy weather spot speed for new major/minor j ile wet weather journer nportant. A point just b th ends of the scheme higher speed value sh d to the wet weather journer the speed value sh	owever, a further reduction of 4kph is to h states; of cars is required, for improvement of alignments unctions or accesses on existing roads, the normal y speed of vehicles. The precise point at which the before the scheme length and a time of free flow are so that traffic approaching from both directions is ould be used in the design process. To get from the aurney speed used in design one of the following		



JUSTIFICATION

Safety:	TD 41/95, Paragraph 2.21 states: 2.21 Normally, an "X" distance of 4.5m shall be provided for a direct access where use in the design year is forecast not to exceed 500 AADT. The choice of set back distance is related to the forecast traffic using the access. For lightly used accesses, for example those serving a single dwelling or a small cul-de-sac of a half a dozen dwellings, the set back "X" may be reduced to 2.4m. The 2.4m set back relates to normally only one vehicle wishing to join the trunk road at one time. The 4.5m covers the situation where two light vehicles may want to accept the same gap in the trunk road traffic. Where in the case of lightly used accesses the site conditions are particularly difficult, then the set back "X" may be reduced to 2.0m as a Relaxation. Any further reduction would be a Departure from Standard under para 1.15. The access has been designed with an 'x' distance of 2.4m, in line with TD41/95 Paragraph
	The access has been designed with an 'x' distance of 2.4m, in line with TD41/95 Paragraph 2.21 which is deemed appropriate due to the low volumes of traffic that is anticipated to use this access.





	2.22 The "Y" distance along the major road, the all purpose trunk road, shall be determined from Table 2/1:									
	Design speed of major road (lcph)	120	100	85	70	60	50			
	"Y" Distance (m)	and the local division in which the local division in whic	215	160	120	90	70			
	Table 2/1: Value of "Y" Distance Note, these figures correspond to the Desirable Minimum Stopping Sight Distances set out in Table 3 in TD9 (DMRB 6.1.1). Relaxations are not available on these figures. The specified and achievable SSD in each direction based on their design speed at in the table below (specified SSD has been calculated with reaction times and decorrates in line with TD 9/93, Table 3);									
	Locatio	'n			Speed				'y' distance	
	A1_CA_6 RHS (towards roundabout) A1_CA_6 LHS (towards overbridge)		Survey / TD22 Design Speed (kph)		Sp	ecified (m)	Proposed Achieved (m)	Current Achieved (m)		
			ut)		57			74	55	55
			e)		53			64	126	126
	Visibility has been maximised as far as reasonably practicable. The constraints are beyond the control of EWR Alliance and it is not possible to amend the constraints or move the access location, due to the requirements of future maintenance.					nove the access				
	Visibility to the LHS can be achieved. The RHS visibility is below the desirable minimum for the design speed. The reduced 'y' distance is due to the existing vegetation and the close proximity to the existing roundabout.									
Congestion/Delay:	n/a									
Environment/ Sustainability:	It is not proposed to provide the full 'y' distance, as this would involve heavy vegetation clearance, including several mature trees.									
Accessibility:	n/a									
Maintenance:	Any vegetation trimming required to provide the 'y' distances will be carried out at the appropriate time of year and will be maintained during period of the construction works.									
Economic (whole life cost):	n/a									

MITIGATION

Risk Assessment Classification:		
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Other Options Considered:	n/a
Mitigation:	To ensure the 'y' distances stated are achieved regular vegetation trimming will take place along the verge for the duration of the construction period.

CONCLUDING COMMENTS

The design speed calculated at this location is 53/57kph which is lower than the posted speed of 50mph/80kph.

Observed 85th% survey speeds varied between 33mph and 36mph.

The sub-standard 'y' distance for A1_CA_6 in the RHS direction is due to the existing road geometry, the close proximity to the existing roundabout and the existing well-established vegetation.

As the works to be undertaken in this location is the upgrading of an existing access and there is no reduction to the existing visibility from this junction it is not proposed to implement any mitigations other than the vegetation trimming.

ALLIANCE ASSURANCE

	Name	Signed	Date
Originator	Andrew Kirk	Andrew Kick	09/06/2020
Reviewer	Lisa Taylor	L.J. hogo	09/06/2020
Authorised	Gareth Johnston	Goil Suite	09/06/2020

LOCAL HIGHWAY AUTHORITY RESPONSE

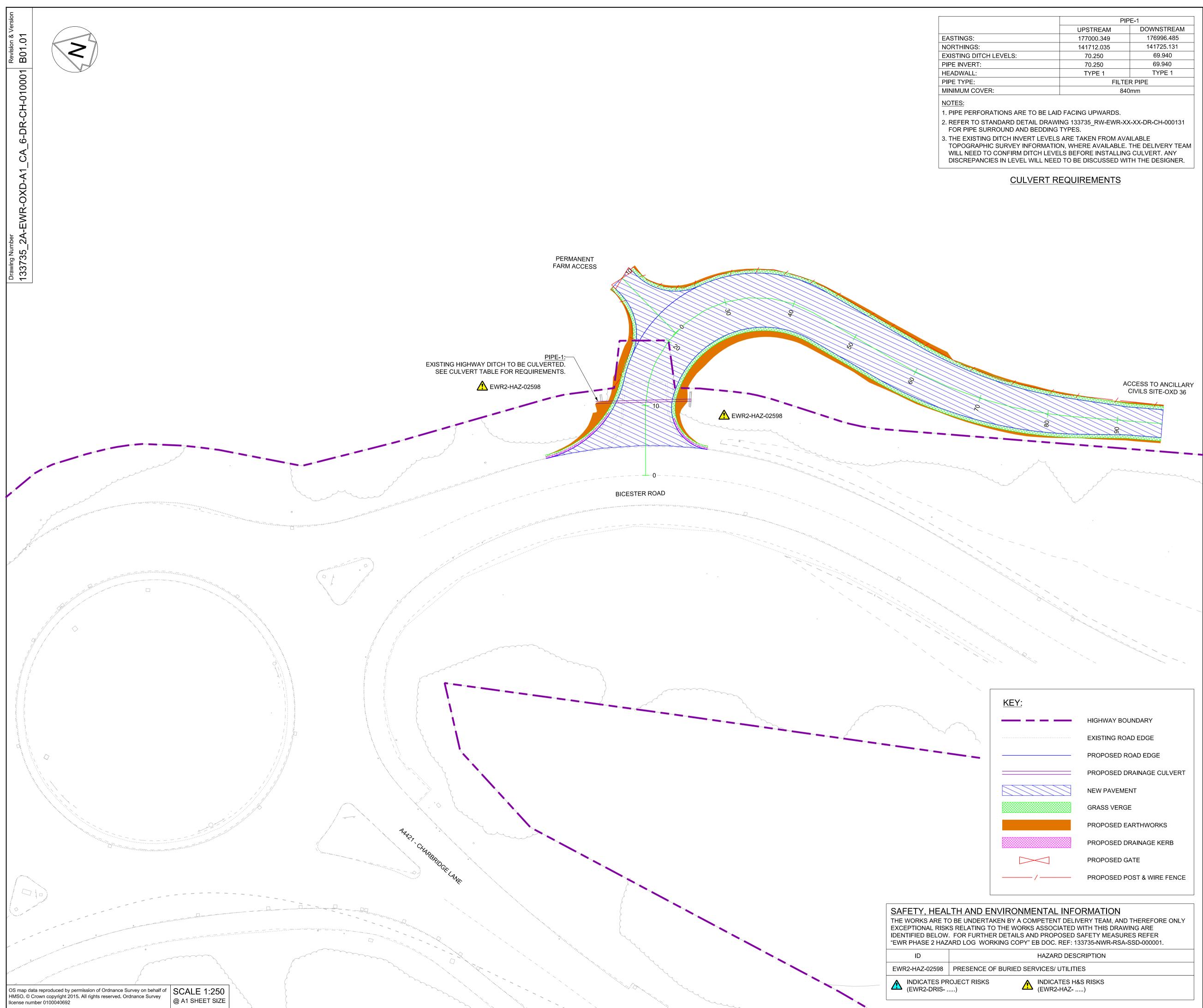
For completion by Local Highway Authority Representative

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2	Approved with comments*	
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Name	Position	Signed	Date

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Note: Where comments impact upon a design decision or have multidiscipline impacts, they will be entered into BIMCollab the projects online issues management system.



EASTINGS:	
NORTHINGS:	
EXISTING DITCH LEVELS:	
PIPE INVERT:	
HEADWALL:	
PIPE TYPE:	
MINIMUM COVER:	

PIPE-1				
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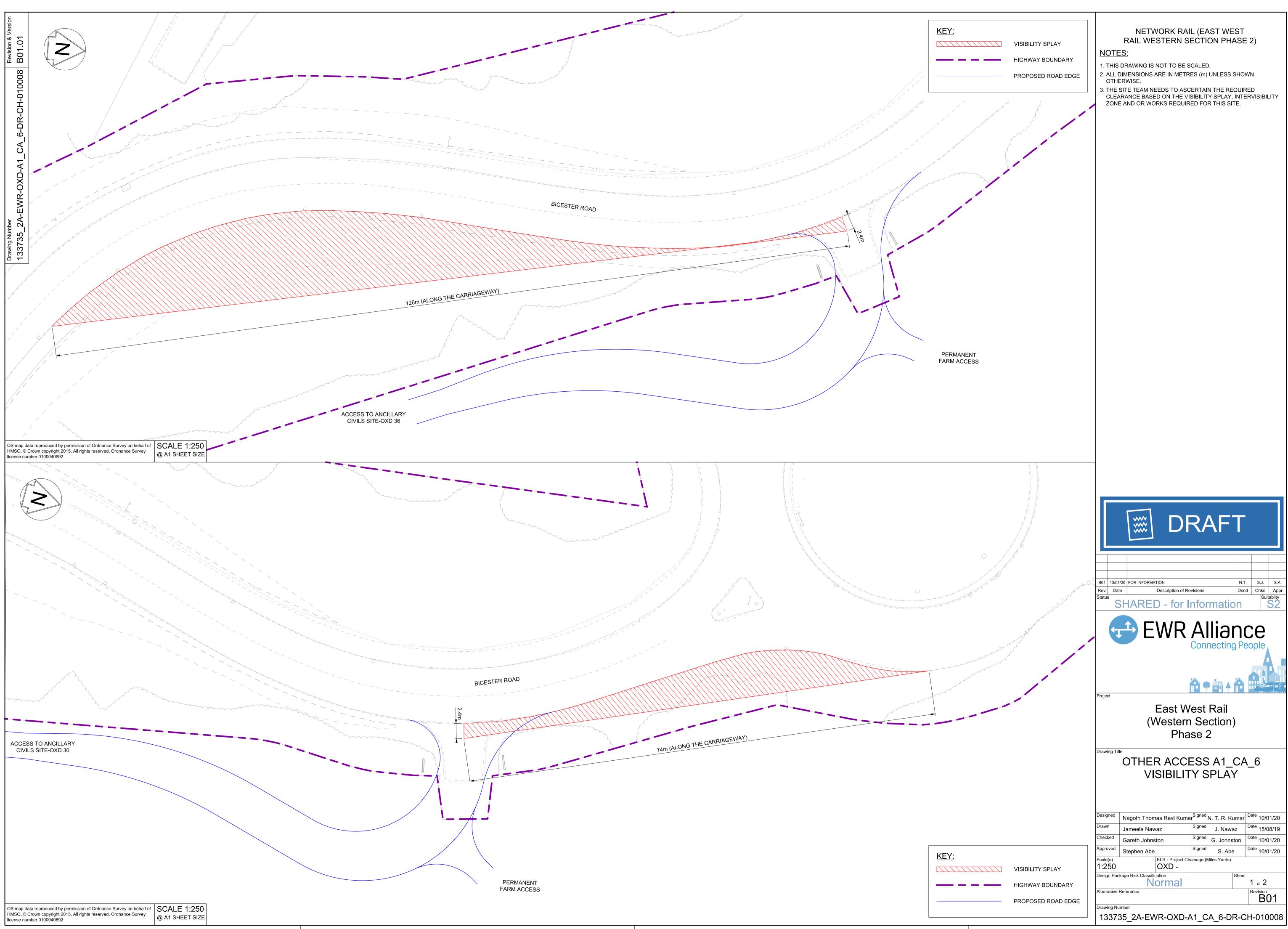


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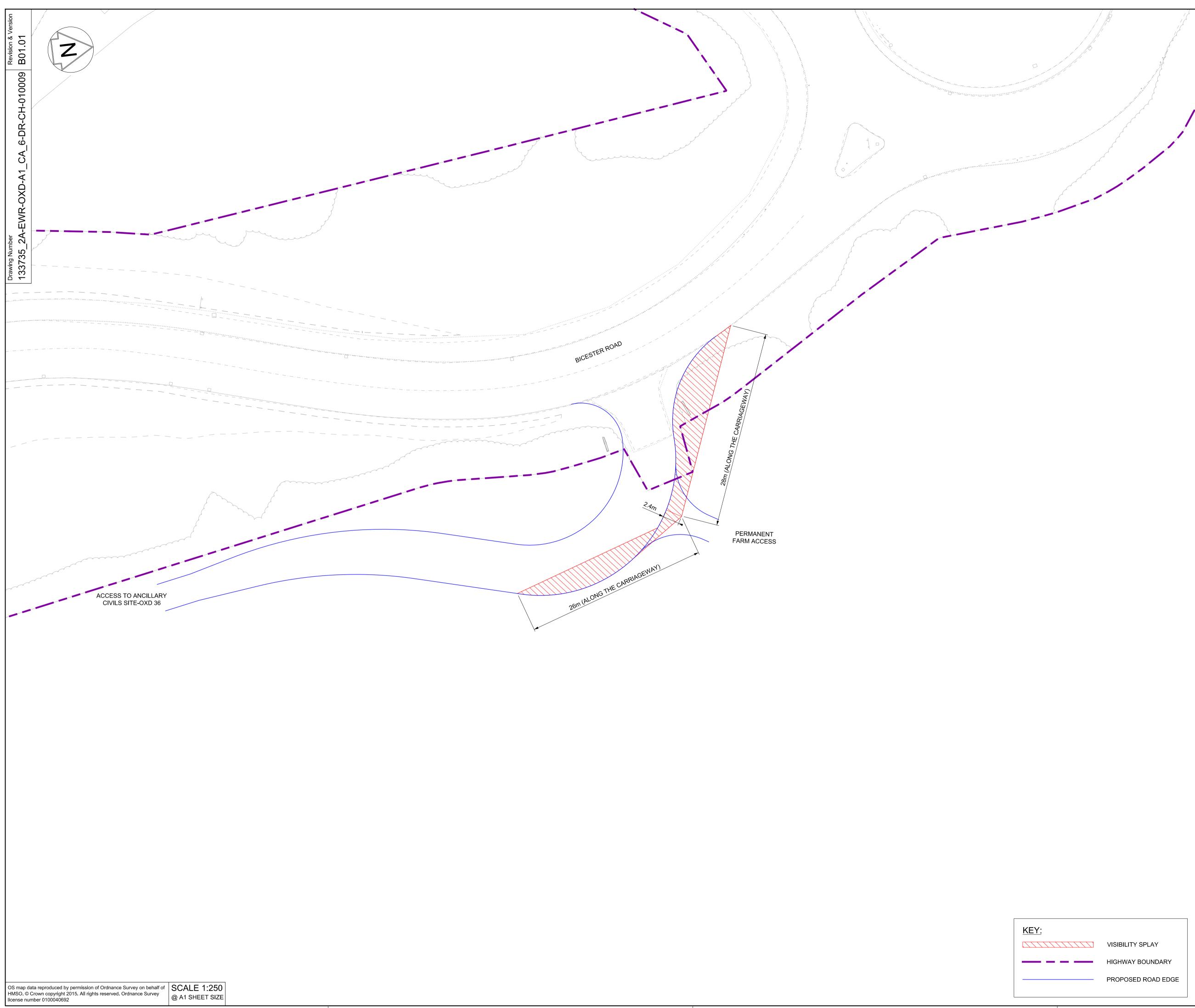
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Drawn	Jameela Nawaz	Signed J. Nawa		^{Date} 02/08/
Checked	Gareth Johnston	Signed G. Johns		Date 10/01/2
Approved	Stephen Abe	Signed S. Abe	- Ir	^{Date} 10/01/2
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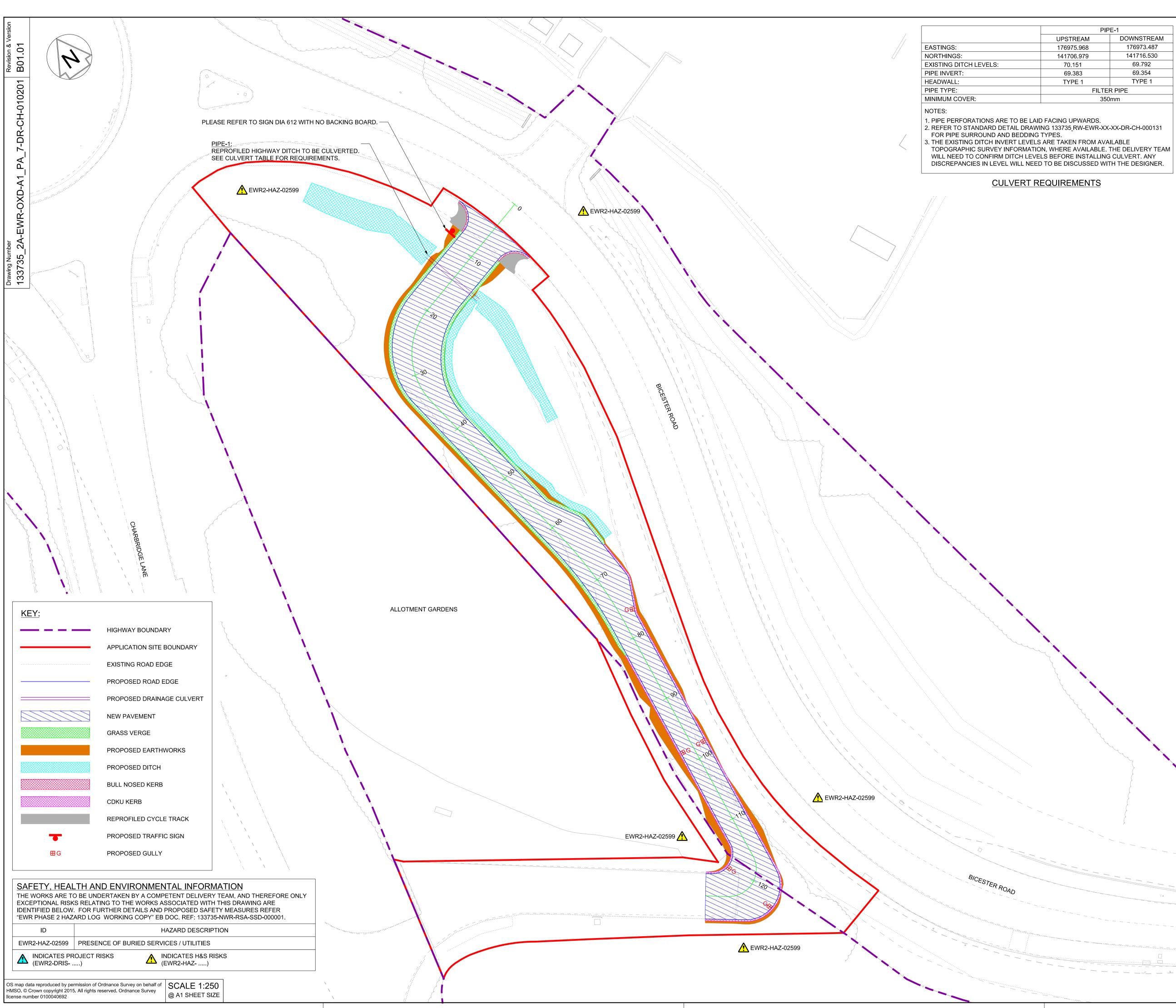


<u>KEY:</u>

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- 3. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY, INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.

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Drawn	Ravikumar KN	Signed R. KN		^{ate} 03/12/19
Checked	Gareth Johnston	^{Signed} G. Johns	ton	^{ate} 10/01/20
Approved	Stephen Abe	Signed S. Abe	, D	^{ate} 10/01/20
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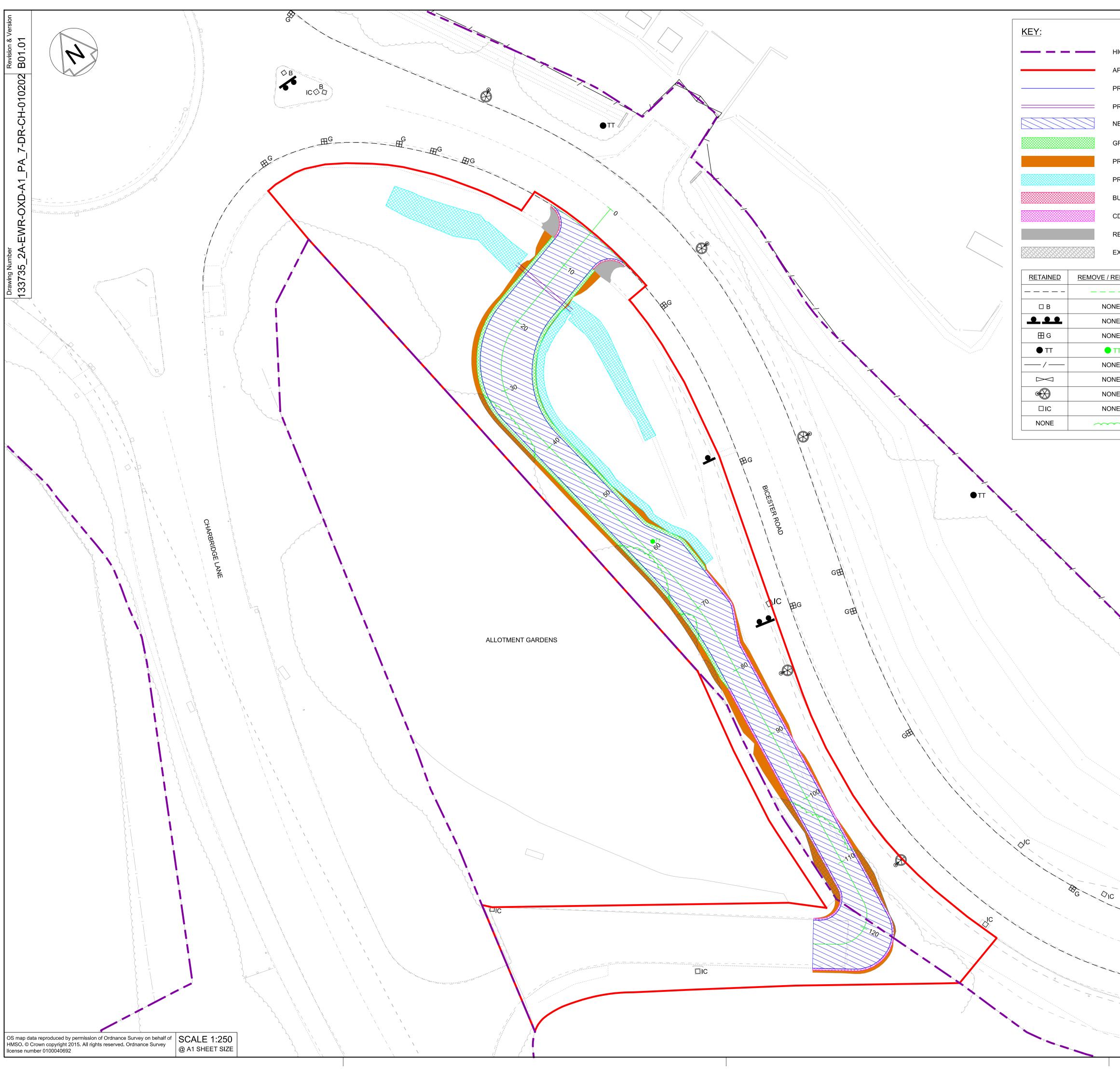
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NOTES:

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- 5. GULLY POSITIONS SHOWN ARE INDICATIVE ONLY. REFER DRAINAGE DRAWINGS FOR THEIR FINAL LOCATIONS.

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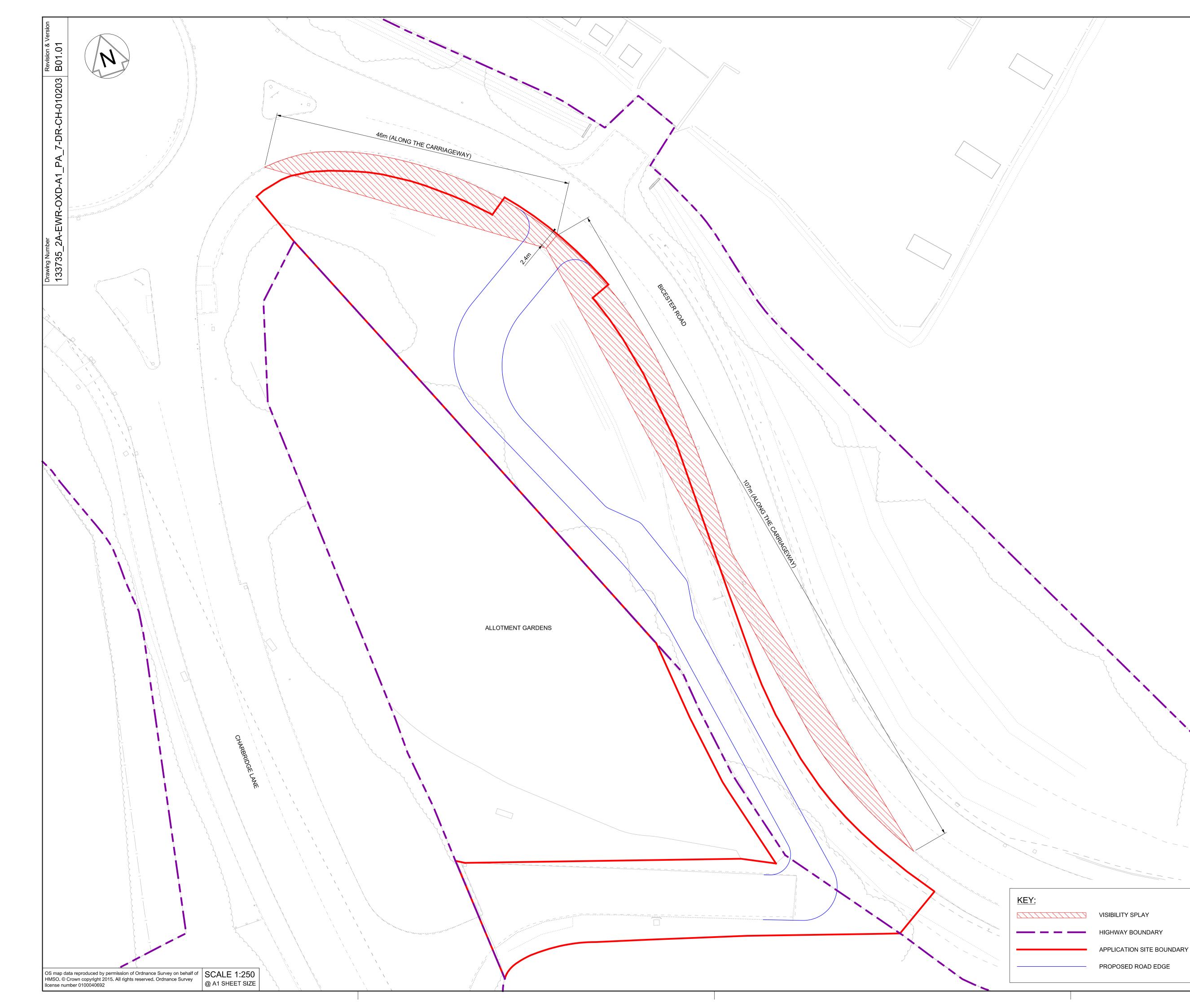


- HIGHWAY BOUNDARY
- APPLICATION SITE BOUNDARY
- PROPOSED ROAD EDGE
- PROPOSED DRAINAGE CULVERT
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- PROPOSED DITCH
- BULL NOSED KERB
- CDKU KERB
- REPROFILED CYCLE TRACK
- EXTENTS OF DE-VEGETATION

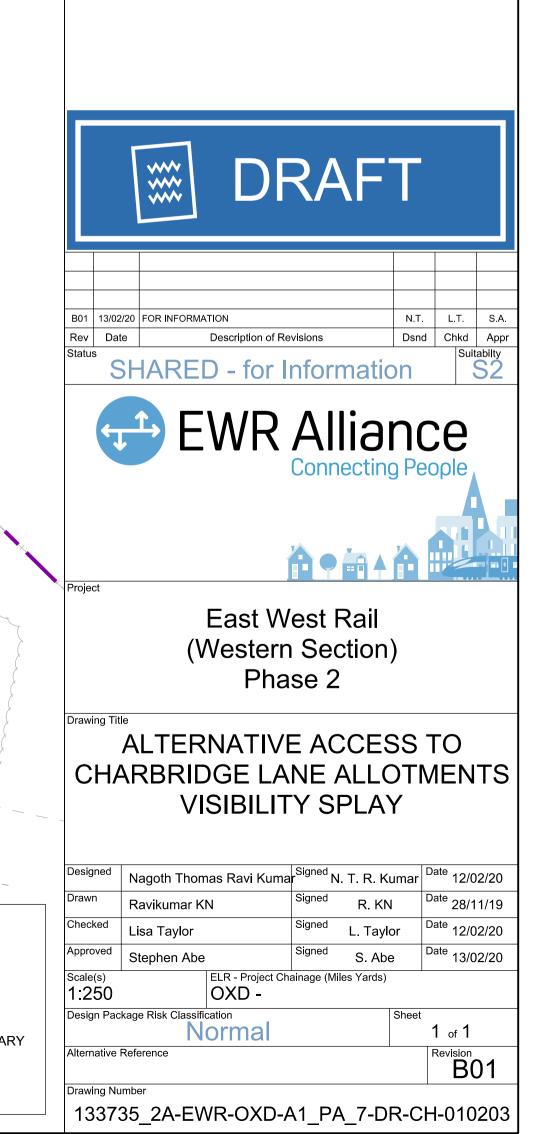
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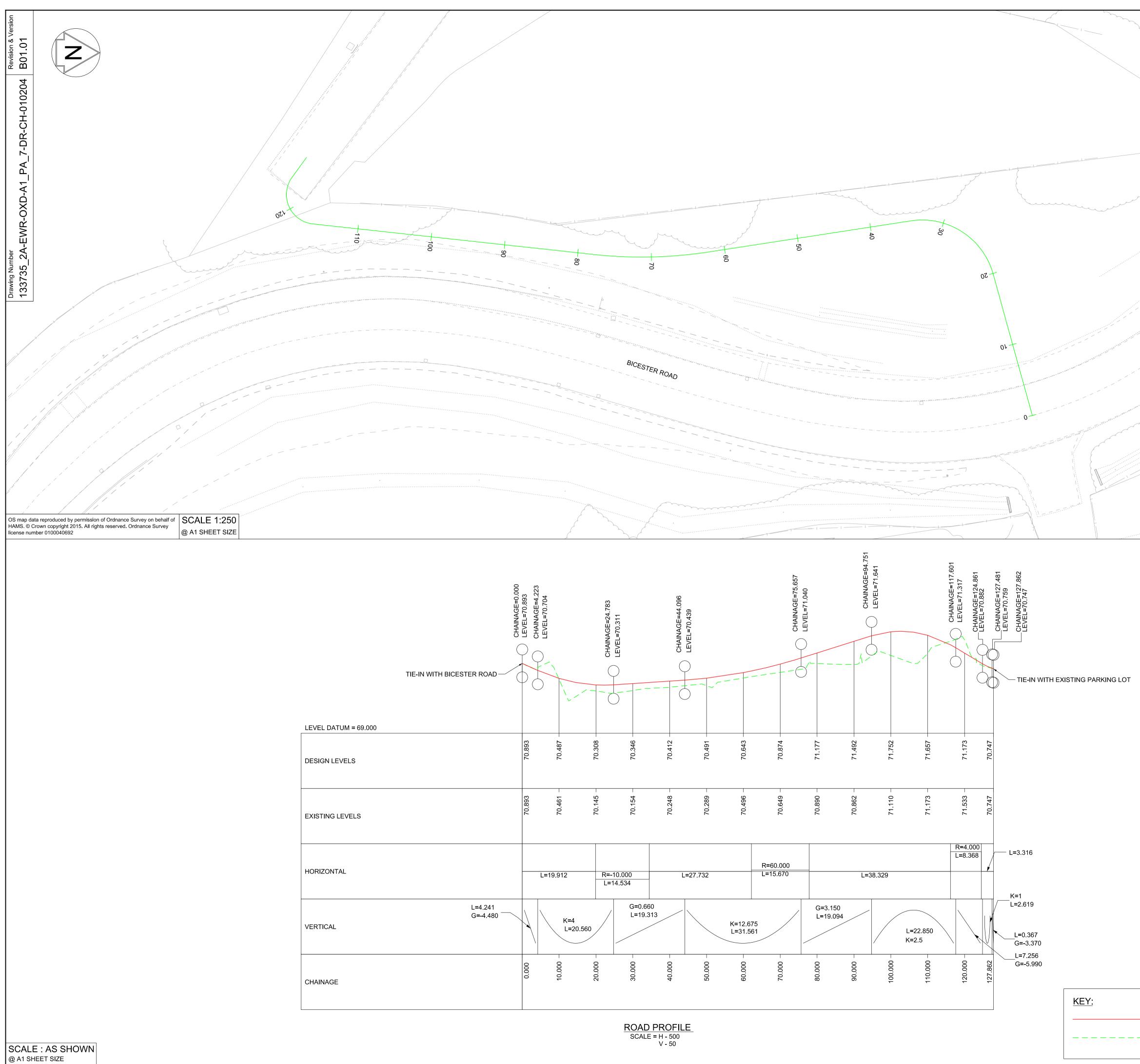
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- 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
- 4. PRIOR TO THE COMMENCEMENT OF WORKS, A SUITABLY QUALIFIED ECOLOGIST SHALL INSPECT THE SITE FOR THE PRESENCE OF PROTECTED SPECIES AND HABITAT. THE ECOLOGIST SHALL THEN ADVISE EWR ALLIANCE ON THE REQUIRED PRECAUTIONARY METHODS AND AREAS OF EXCLUSION.
- 5. WHERE SITE CLEARANCE WORKS HAVE THE POTENTIAL TO IMPACT TREES OR HEDGES WHICH ARE TO BE RETAINED, AN ARBORICULTURIST 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.
- 6. SITE CLEARANCE, WHERE THERE IS PROXIMITY TO HABITAT OF PROTECTED SPECIES, SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A SUITABLY QUALIFIED ECOLOGIST.
- 7. 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.
- 8. 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.
- 9. 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.
- 10.FOR CLARITY ONLY THE TRUNKS OF EXISTING TREES ARE SHOWN, FOR CANOPY EXTENTS THE TREE SURVEY MODEL AND MASTER SCHEDULE ARE TO BE REFERED TO.

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	Checked	Lisa Taylor	N	Signed	L. Taylor	^{Date} 12/02/20
	Approved	Stephen Abe		Signed	S. Abe	Date 13/02/20
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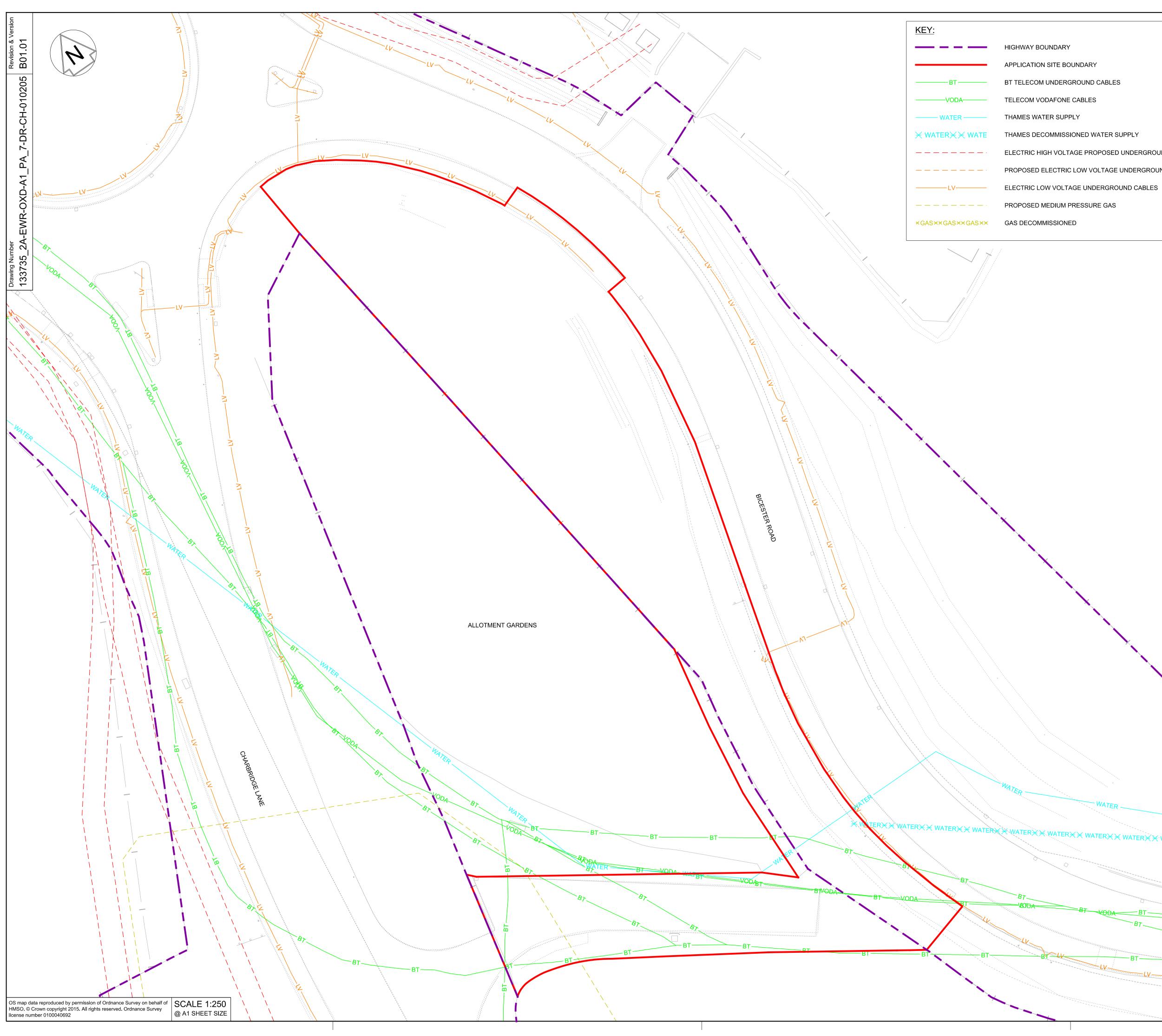
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	NETWORK RAIL (EAST WEST RAIL WESTERN SECTION PHASE 2)
	 NOTES: THIS DRAWING IS NOT TO BE SCALED. ALL DIMENSIONS AND LEVELS ARE IN METRES (m) UNLESS SHOWN OTHERWISE. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
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	EWR Alliance Connecting People
	Project East West Rail (Western Section)
	Phase 2 Drawing Title ALTERNATIVE ACCESS TO CHARBRIDGE LANE ALLOTMENTS EXISTING AND PROPOSED ROAD PLAN AND PROFILE
	Designed Nagoth Thomas Ravi Kumar Signed N. T. R. Kumar Date 12/02/20 Drawn Ravikumar KN Signed R. KN Date 17/12/19 Checked Lisa Taylor Signed L. Taylor Date 12/02/20 Approved Stephen Abe Signed S. Abe Date 13/02/20 Scale(s) ELR - Project Chainage (Miles Yards) OXD - OXD - Date 13/02/20
NEW ROAD EDGE LEVEL EXISTING SURFACE LEVEL	Design Package Risk Classification Sheet 1 of 1 Alternative Reference Revision B01 Drawing Number 133735_2A-EWR-OXD-A1_PA_7-DR-CH-010204

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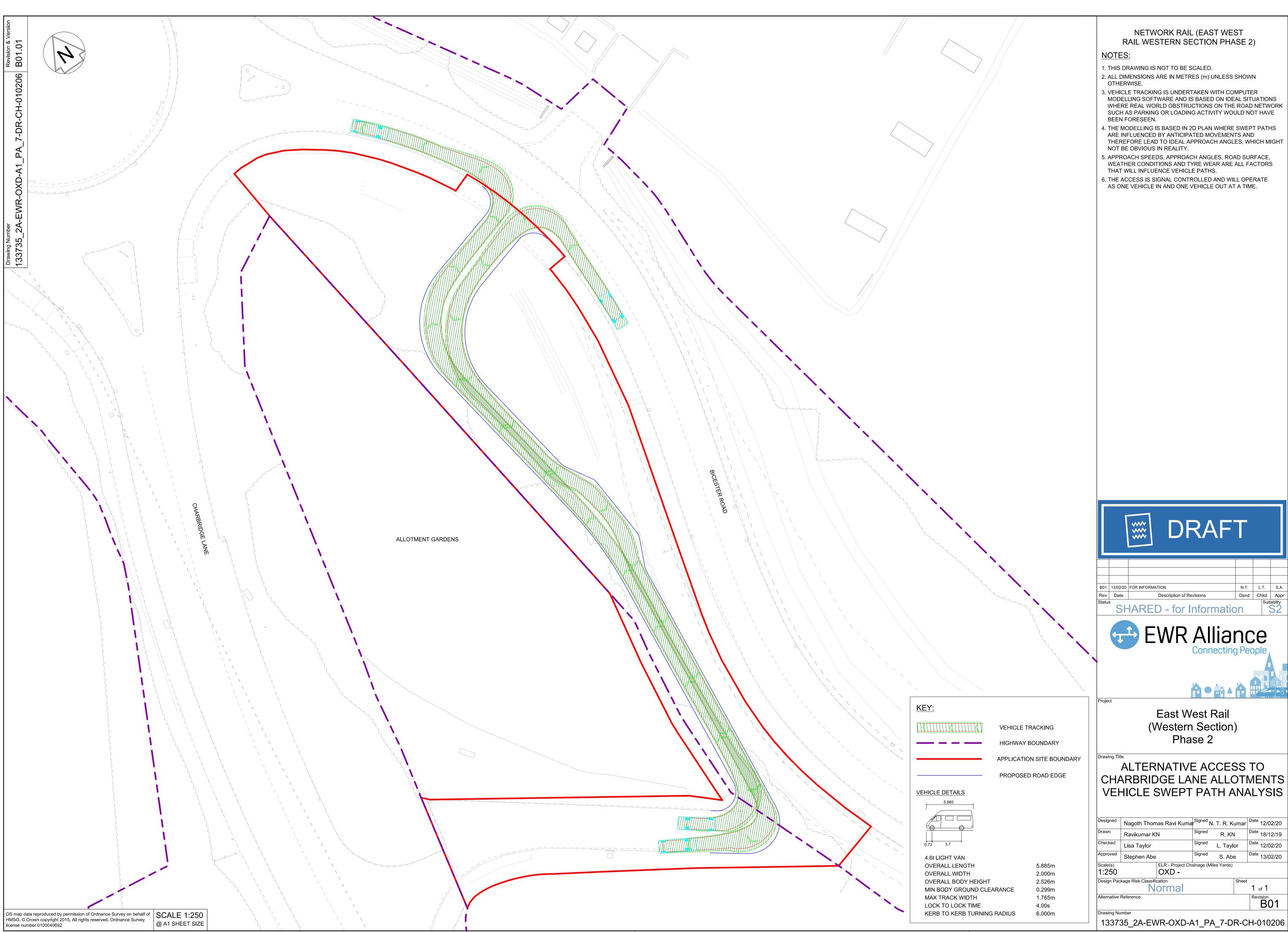


- ELECTRIC HIGH VOLTAGE PROPOSED UNDERGROUND CABLES
- PROPOSED ELECTRIC LOW VOLTAGE UNDERGROUND CABLES

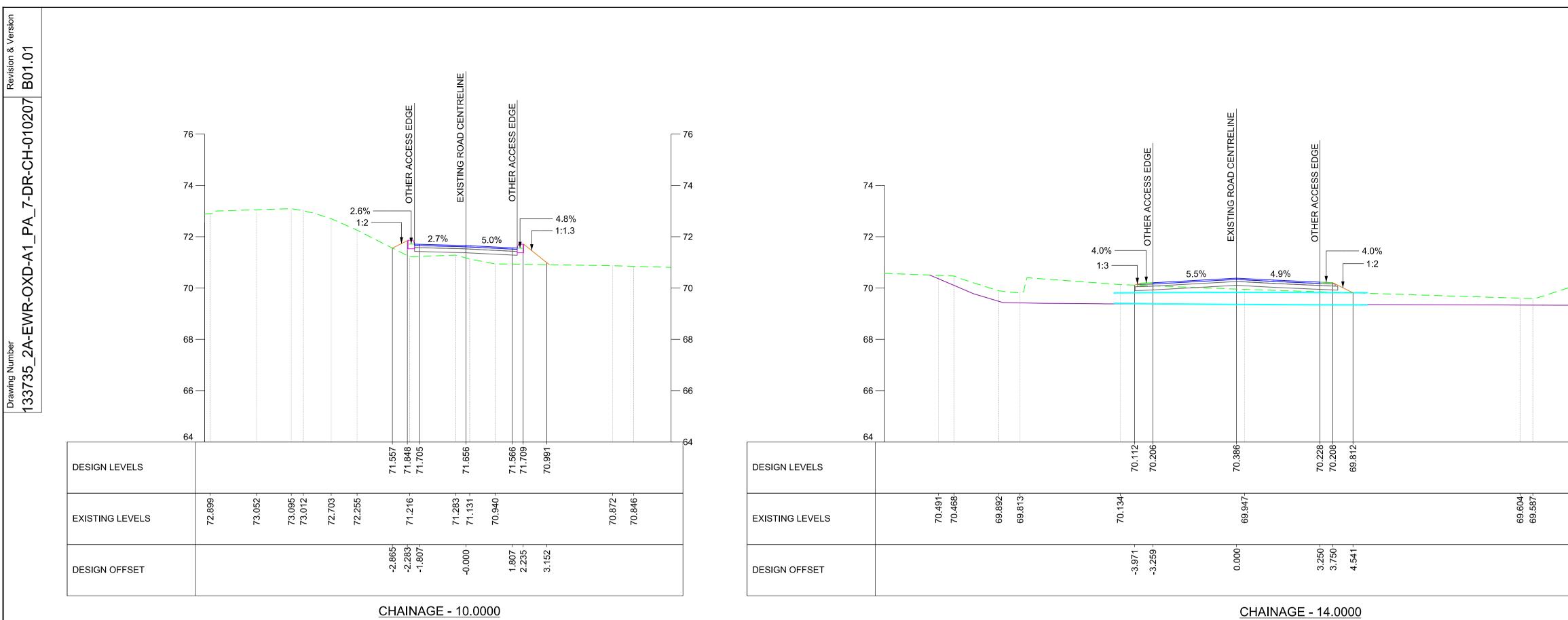
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- 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
- 3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
- 4. THE EXACT LOCATION AND EXTENT OF BURIED SERVICES SHALL BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. AGREEMENT WITH PRIVATE LAND OWNERS 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.

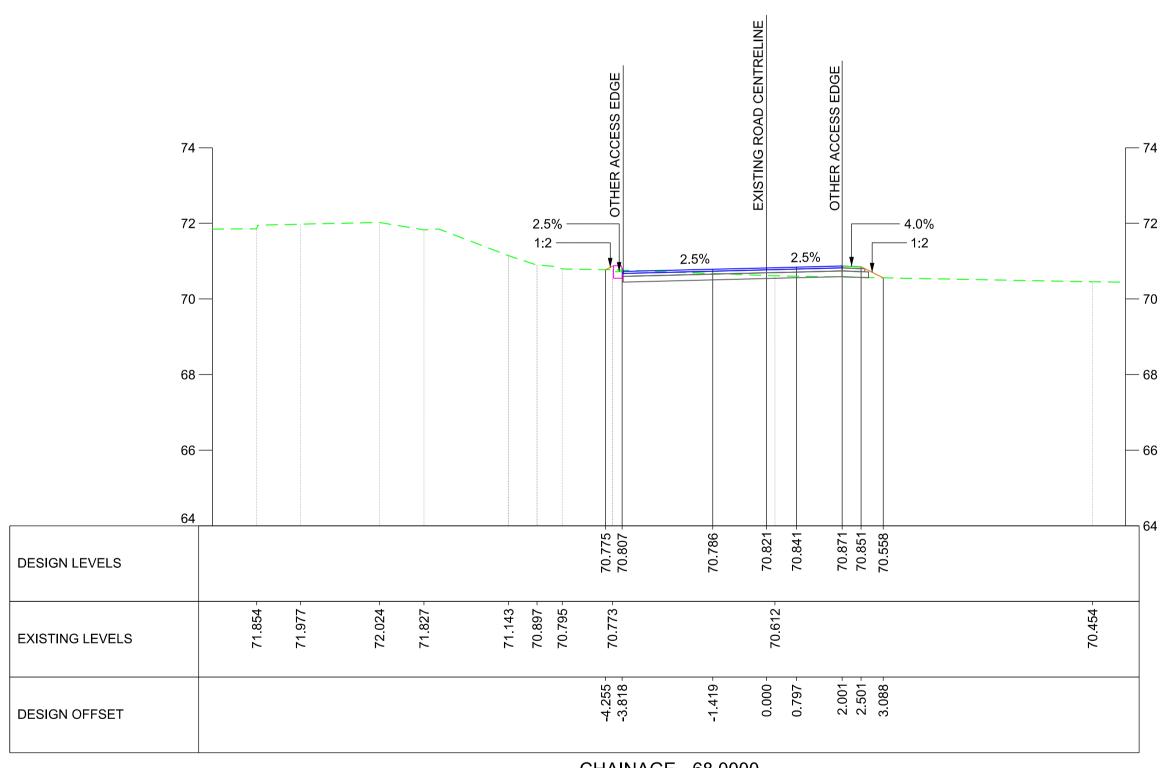
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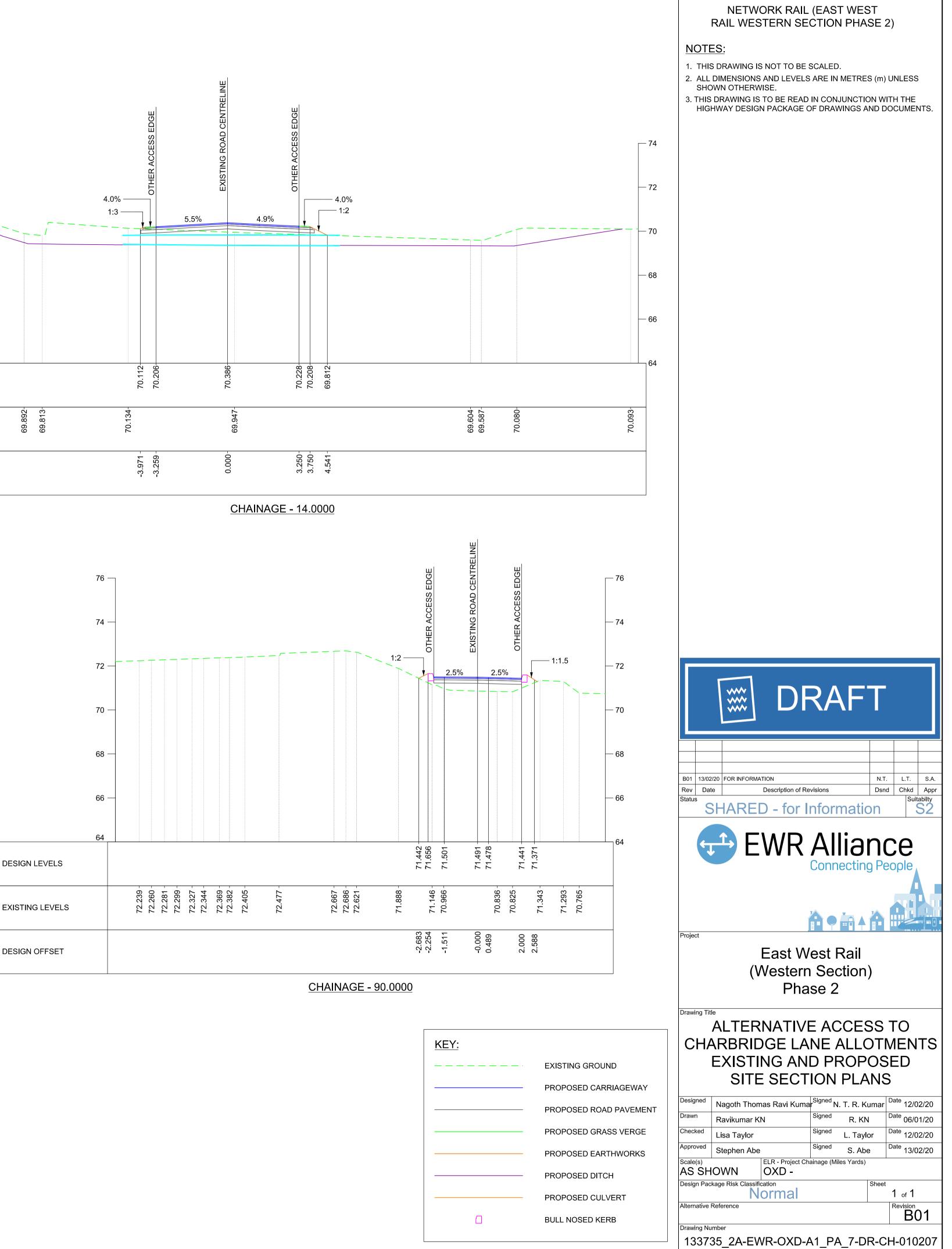
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East West Rail Phase 2 Departure N003 133735_RW-EWR-XX-XX-RP-CH-000108



Departure Reference:	N003	Departure Type:	General
Document File	133735_RW-EWR-XX-XX-RP-	Local Highway	Oxfordshire County Council
Name:	CH-000108	Authority:	

Departure Title:	Reduced visibility standard at the junction with the highway network at:
-	Other Access - A1_PA_7 (Bicester Road)
Departure Location:	ALPAT
Supporting Information:	General Arrangement Drawing Numbers 133735_2A-EWR-OXD-A1_PA_7-DR-CH-010001 Visibility Splay Drawing Numbers 133735_2A-EWR-OXD-A1_PA_7-DR-CH-010008
Consultations:	Oxfordshire County Council

DEPARTURE DETAILS

Relevant Standards:	DMRB, Volume 6, Section 2, Part 6, TD 41/95
Relevant Standards.	DMRB, Volume 6, Section 2, Part 6, TD 9/93
Clause/Paragraphs:	TD 41/95, Paragraph 2.22



	2.22 The "Y" distance along the major road, the all purpose trunk road, shall be determined from Table 2/1: Design speed of 120 100 85 70 60 50 major road (kph) "Y" Distance (m) 295 215 160 120 90 70 Table 2/1: Value of "Y" Distance Note, these figures correspond to the Desirable Minimum Stopping Sight Distances set out in Table 3 in TD9 (DMRB 6.1.1). Relaxations are not available on these figures.
Departure Description:	Visibility from minor arm along major road is sub-standard.
Associated Departures:	None
Reason for Departure:	It is not possible to provide the full visibility at the access listed above.

DESIGN DETAILS

Design Year Traffic Flow (AADT):	Unknown			
Flow (AADT): Design Speed:	A speed survey w locations North ar deemed to be the A1_CA_6. The 85th percent Mph (kph) Site 1 These figures are be applied in line	nd South of the promost appropriate tile speed survey Northbound 32.7 (52.7)	oposed tempora location given its results are as follo Southbound 35.5 (57.2) ulation of SSD. He ragraph 3.4, whic	 owever, a further reduction of 4kph is to
	and major/minor junc design methods are ba measurements are tak suitable. Measuremen covered. If different v dry weather spot spee correction factors sho For AP Dual	tions or accesses, and ased on the 85 percenti en and the timing is in its must be taken at boy alues are obtained the d of vehicles measured uld be used - carriageways deduc e carriageways deduc	for new major/minor ju le wet weather journey uportant. A point just b th ends of the scheme s higher speed value she d to the wet weather jo t 8kph het 4kph	of cars is required, for improvement of alignments inctions or accesses on existing roads, the normal y speed of vehicles. The precise point at which the efore the scheme length and a time of free flow are so that traffic approaching from both directions is build be used in the design process. To get from the arney speed used in design one of the following below.





JUSTIFICATION

	TD 41/95, Paragraph 2.21 states: 2.21 Normally, an "X" distance of 4.5m shall be provided for a direct access where use in the design year is forecast not to exceed 500 AADT. The choice of set back distance is related to the forecast
Safety:	traffic using the access. For lightly used accesses, for example those serving a single dwelling or a small cul-de-sac of a half a dozen dwellings, the set back "X" may be reduced to 2.4m. The 2.4m set back relates to normally only one vehicle wishing to join the trunk road at one time. The 4.5m covers the situation where two light vehicles may want to accept the same gap in the trunk road traffic. Where in the case of lightly used accesses the site conditions are particularly difficult, then the set back "X" may be reduced to 2.0m as a Relaxation. Any further reduction would be a Departure from Standard under para 1.15. The access has been designed with an 'x' distance of 2.4m, in line with TD41/95 Paragraph 2.21 which is deemed appropriate due to the low volumes of traffic that is anticipated to use this access.



	2.22 The "Y all purpose trun Table 2/1: Design speed of major road (kpb) "Y" Distance (m) Table 2/1: Valu Note, these figur Minimum Stopp 3 in TD9 (DMR available on the The specified an in the table below rates in line with	120 295 res cor ing Si B 6.1 se figu d ach	shall 100 215 Y" Di rrespondent ight Di .1). R ures. ievab control of the state of the	stancelaxat	70 120 e the De es set (ions a D in e) has	60 90 sirabl out in re not	om 50 70 Table direct	tion based on t		
	Speed Distance Survey /					ce ('y')	ʻx' Distance			
	Locati	ION	TD22 De Speed (Desi	gn	Specified (m)	Achieved (m)	Achieved (m)	
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	A1_PA_7 (towards rou				:	57		74	46	2.4
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Congestion/Delay:	n/a									
Environment/ Sustainability:	It is not proposed clearance, includ						nce,	as this would i	nvolve heavy	vegetation
Accessibility:	n/a									
Maintenance:	Any vegetation to course of the wo									ned during the
Economic (whole life cost):	n/a									

MITIGATION

Risk Assessment Classification:

East West Rail Phase 2 Departure N003 133735_RW-EWR-XX-XX-RP-CH-000108



Other Options Considered:	n/a
Mitigation:	n/a

CONCLUDING COMMENTS

The design speed calculated along the Bicester Road is 57kph heading southbound and 53kph heading northbound using the speed survey data and TD22/81. The sub-standard 'y' distance at A1_PA_7 is due to its proximity to the roundabout. It is recognised at these locations; vehicles will be slower approaching the roundabout and also travelling slower on exit from the roundabout. Therefore, the proposed 'y' distance is commensurate with the road layout and vehicle movements at the roundabout.

ALLIANCE ASSURANCE

	Name	Signed	Date
Originator	Andrew Kirk	Andrew Kick	09/06/2020
Reviewer	Lisa Taylor	Let hope	09/06/2020
Authorised	Gareth Johnston	Goill Suits	09/06/2020

LOCAL HIGHWAY AUTHORITY RESPONSE

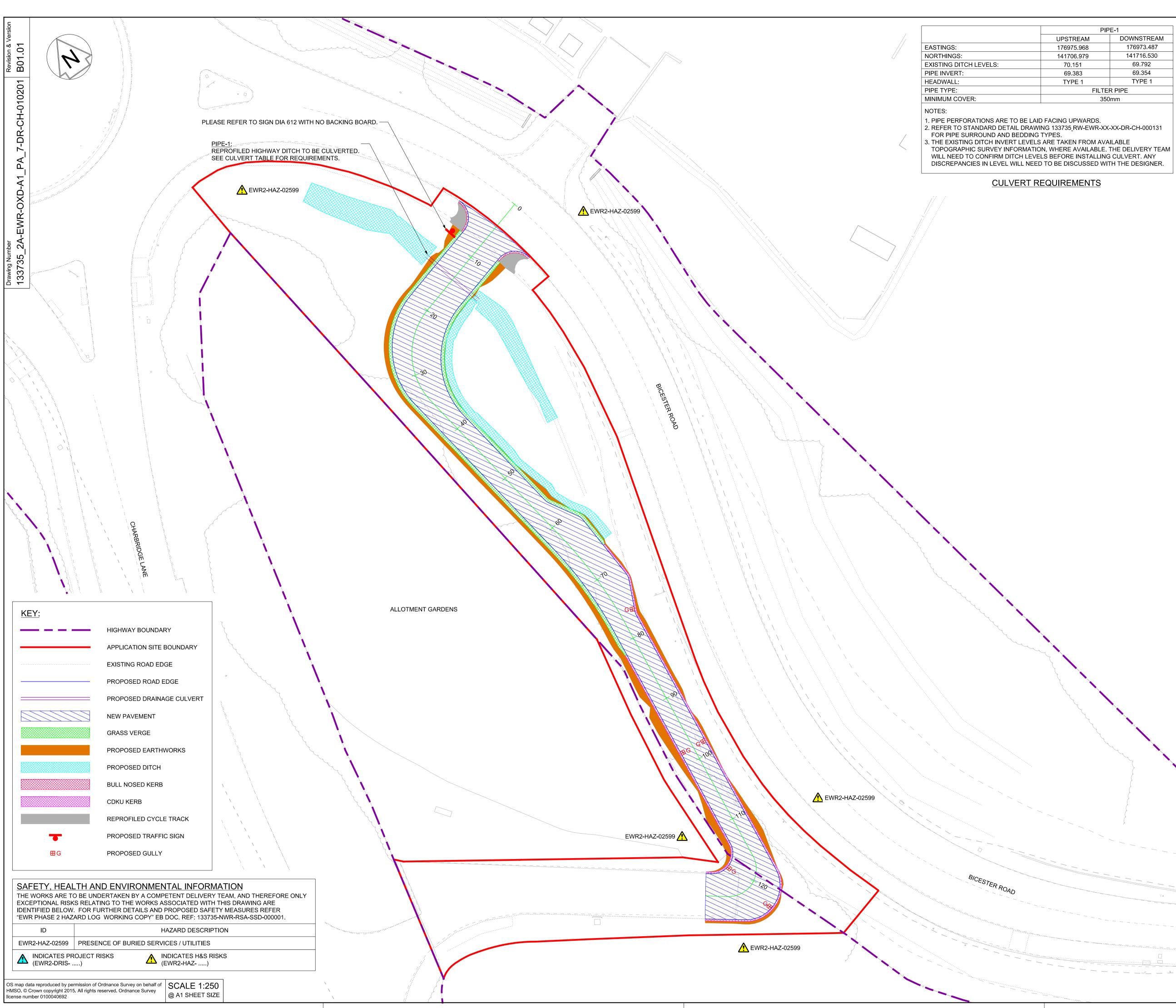
For completion by Local Highway Authority Representative

Category		Tick
1	Approved	
2	Approved with comments*	
3	Rejected with comments*	

Name	Position	Signed	Date

*comments are to be provided on the form provided. Responses will be provided back to the LHA on these forms and close out monitored. Link to template: <u>133735 RW-EWR-XX-XX-CM-CH-000002</u>

Note: Where comments impact upon a design decision or have multidiscipline impacts, they will be entered into BIMCollab the projects online issues management system.



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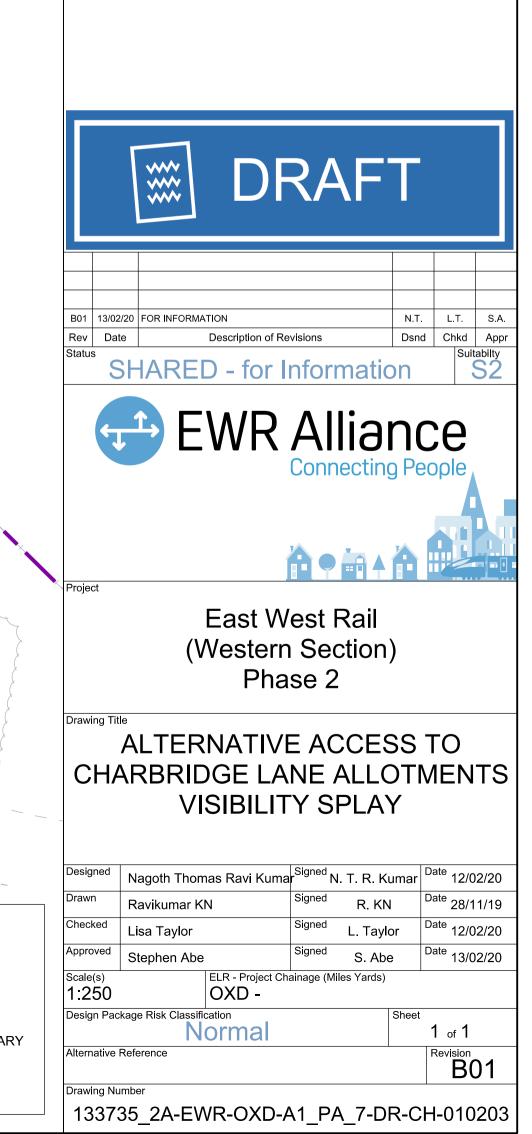
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- 1. THIS DRAWING IS NOT TO BE SCALED.
- 2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
- 3. THE SITE TEAM NEEDS TO ASCERTAIN THE REQUIRED CLEARANCE BASED ON THE VISIBILITY SPLAY, INTERVISIBILITY ZONE AND OR WORKS REQUIRED FOR THIS SITE.



Sheet Size A1 594 x 841

- VISIBILITY SPLAYHIGHWAY BOUNDARYAPPLICATION SITE BOUNDARY
- PROPOSED ROAD EDGE