

	PIPE-1	
	UPSTREAM	DOWNSTREAM
EASTINGS:	178975.968	176973.487
NORTHINGS:	141706.979	141716.530
EXISTING DITCH LEVELS:	70.151	69.792
PIPE INVERT:	69.383	69.354
HEADWALL:	TYPE 1	TYPE 1
PIPE TYPE:	FILTER PIPE	
MINIMUM COVER:	350mm	

- NOTES:
1. PIPE PERFORATIONS ARE TO BE LAID FACING UPWARDS.
 2. REFER TO STANDARD DETAIL DRAWING 133735_RW-EWR-XX-XX-DR-CH-000131 FOR PIPE SURROUND AND BEDDING TYPES.
 3. THE EXISTING DITCH INVERT LEVELS ARE TAKEN FROM AVAILABLE TOPOGRAPHIC SURVEY INFORMATION, WHERE AVAILABLE. THE DELIVERY TEAM WILL NEED TO CONFIRM DITCH LEVELS BEFORE INSTALLING CULVERT. ANY DISCREPANCIES IN LEVEL WILL NEED TO BE DISCUSSED WITH THE DESIGNER.

CULVERT REQUIREMENTS

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

PLEASE REFER TO SIGN DIA 612 WITH NO BACKING BOARD.

PIPE-1:
REPROFILED HIGHWAY DITCH TO BE CULVERTED.
SEE CULVERT TABLE FOR REQUIREMENTS.

⚠ EWR2-HAZ-02599

⚠ EWR2-HAZ-02599

⚠ EWR2-HAZ-02599

⚠ EWR2-HAZ-02599

⚠ EWR2-HAZ-02599

KEY:

	HIGHWAY BOUNDARY
	APPLICATION SITE BOUNDARY
	EXISTING ROAD EDGE
	PROPOSED ROAD EDGE
	PROPOSED DRAINAGE CULVERT
	NEW PAVEMENT
	GRASS VERGE
	PROPOSED EARTHWORKS
	PROPOSED DITCH
	BULL NOSED KERB
	CDKU KERB
	REPROFILED CYCLE TRACK
	PROPOSED TRAFFIC SIGN
	PROPOSED GULLY

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-02599	PRESENCE OF BURIED SERVICES / UTILITIES
	INDICATES PROJECT RISKS (EWR2-DRIS-.....)
	INDICATES H&S RISKS (EWR2-HAZ-.....)



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	13/02/20	FOR INFORMATION				S2



Project
East West Rail (Western Section) Phase 2

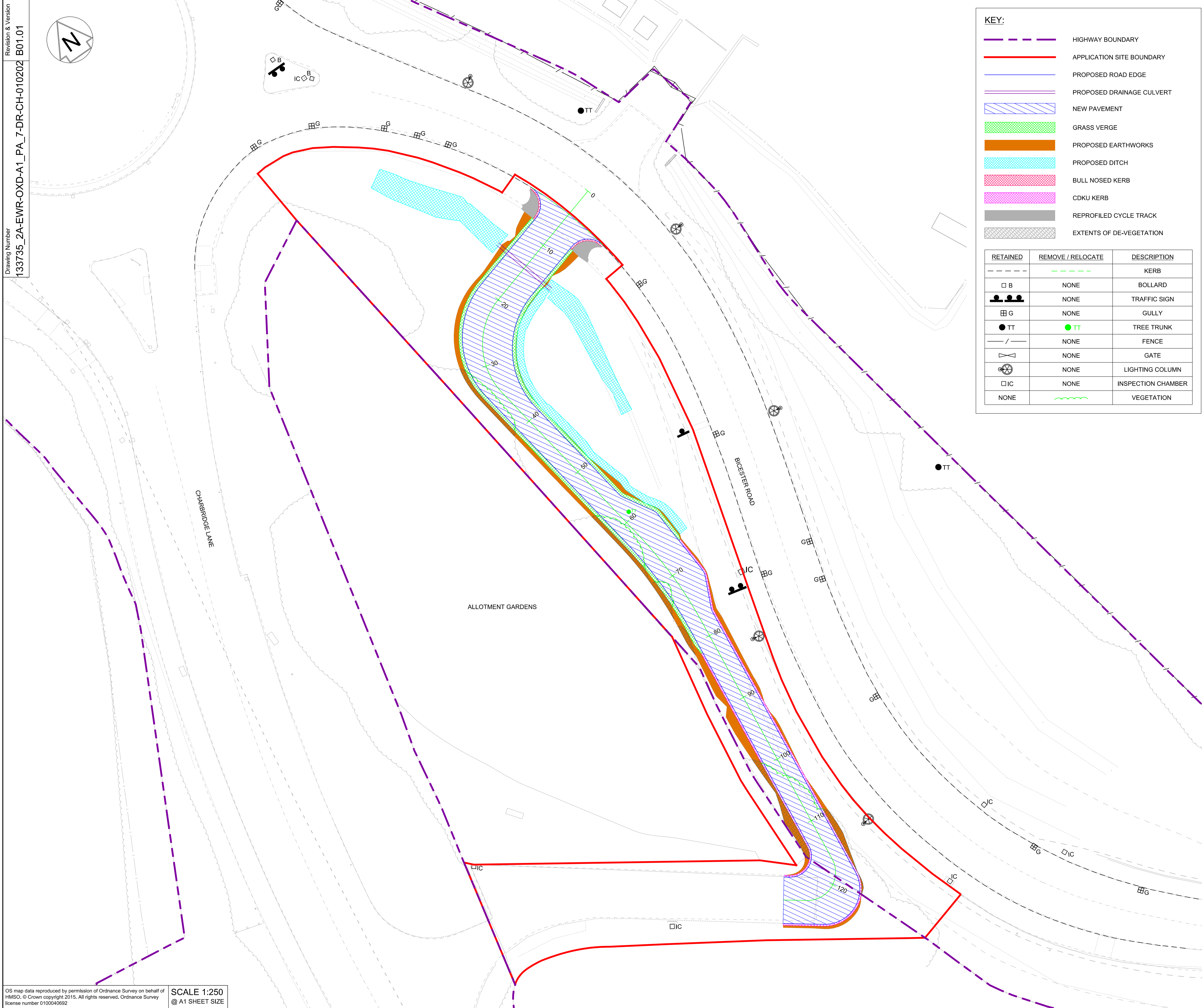
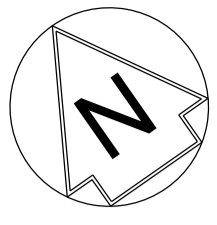
Drawing Title
ALTERNATIVE ACCESS TO CHARBRIDGE LANE ALLOTMENTS SITE PLAN - PROPOSED

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	12/02/20
Drawn	Ravikumar KN	Signed	R. KN	Date	28/11/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	12/02/20
Approved	Stephen Abe	Signed	S. Abe	Date	13/02/20

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

Design Package Risk Classification
Normal

Alternative Reference
Drawing Number
133735_2A-EWR-OXD-A1_PA_7-DR-CH-010201



KEY:

- 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

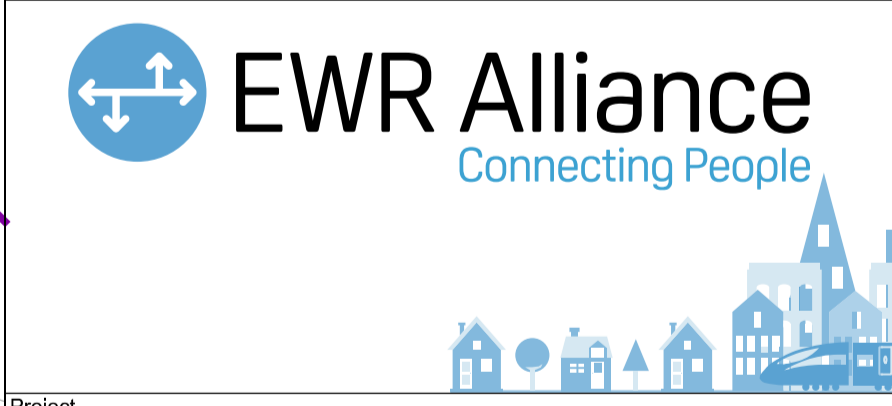
RETAINED	REMOVE / RELOCATE	DESCRIPTION
		KERB
	NONE	BOLLARD
	NONE	TRAFFIC SIGN
	NONE	GULLY
		TREE TRUNK
	NONE	FENCE
	NONE	GATE
	NONE	LIGHTING COLUMN
	NONE	INSPECTION CHAMBER
NONE		VEGETATION

- 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 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.
 - 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	Dend	Chkd	Appr	S.A.
B01	13/02/20	FOR INFORMATION				

Rev Status: **SHARED - for Information** S2



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

Drawing Title
**ALTERNATIVE ACCESS TO
 CHARBRIDGE LANE ALLOTMENTS
 SITE CLEARANCE**

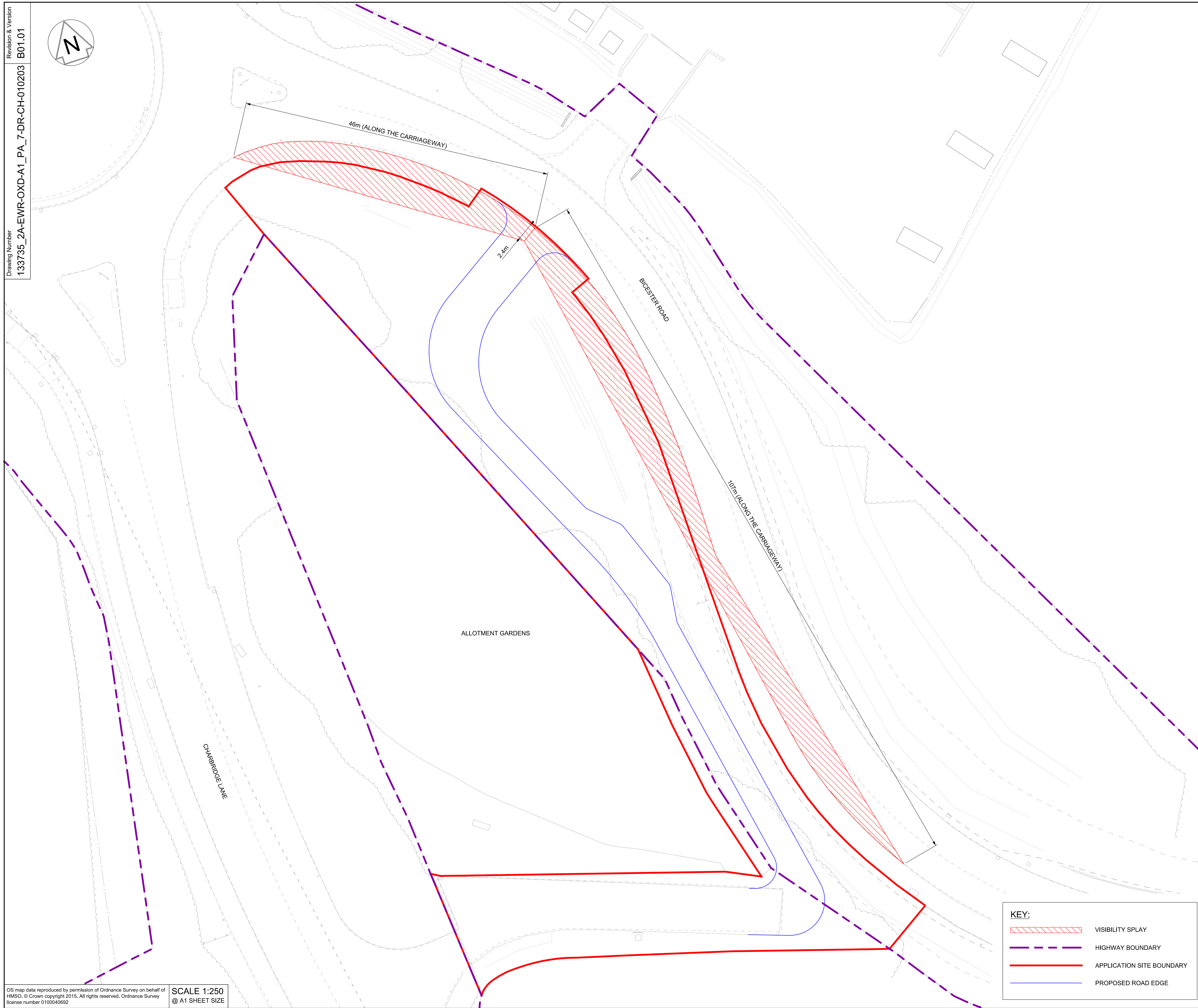
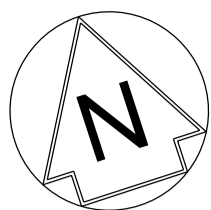
Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	12/02/20
Drawn	Ravikumar KN	Signed	R. KN	Date	28/11/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	12/02/20
Approved	Stephen Abe	Signed	S. Abe	Date	13/02/20

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

Design Package Risk Classification
Normal

Sheet
 1 of 1

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

DRAFT

Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	13/02/20	FOR INFORMATION				S2



Project
East West Rail (Western Section) Phase 2

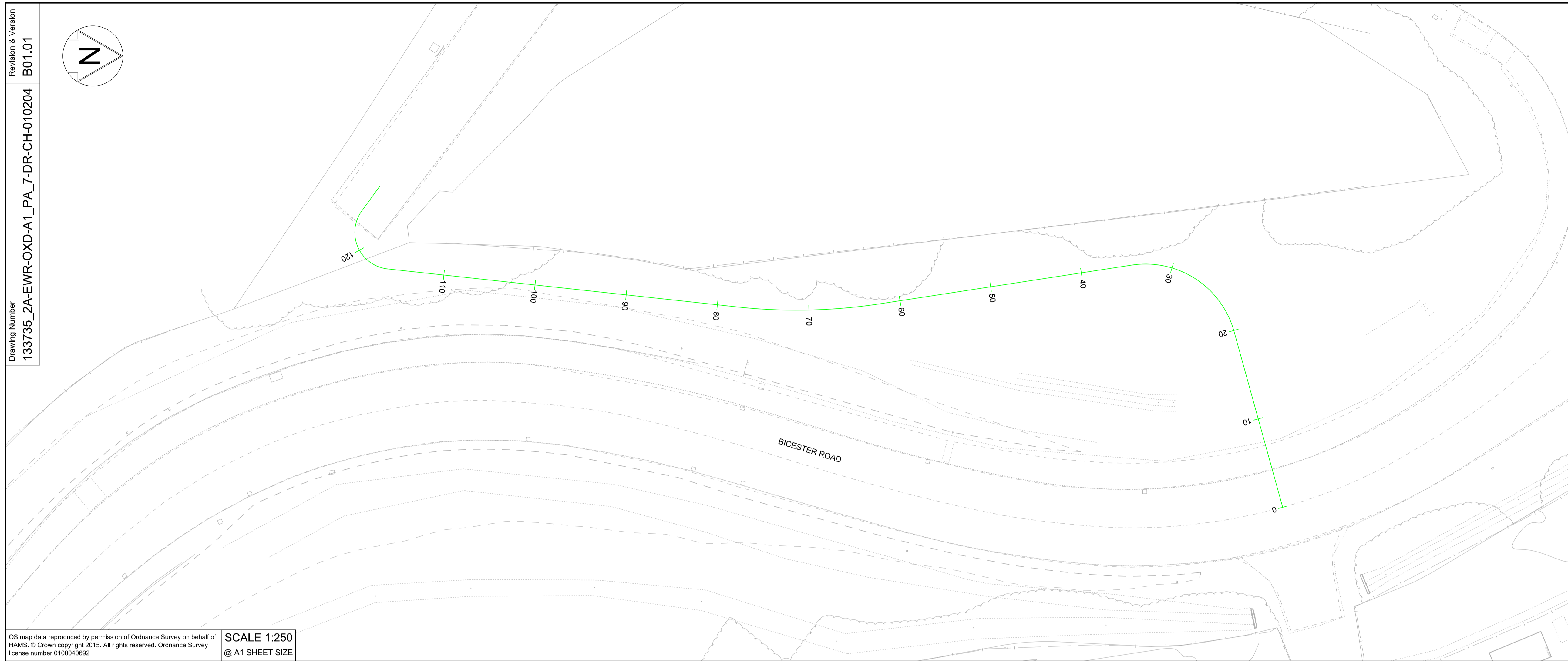
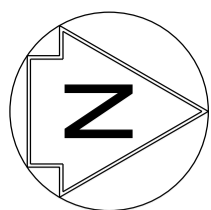
Drawing Title
ALTERNATIVE ACCESS TO CHARBRIDGE LANE ALLOTMENTS VISIBILITY SPLAY

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	12/02/20
Drawn	Ravikumar KN	Signed	R. KN	Date	28/11/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	12/02/20
Approved	Stephen Abe	Signed	S. Abe	Date	13/02/20

Scale(s)
 1:250
 ELR - Project Chainage (Miles Yards)
 OXD -
 Design Package Risk Classification
Normal
 Alternative Reference
 Drawing Number
 133735_2A-EWR-OXD-A1_PA_7-DR-CH-010203

KEY:

	VISIBILITY SPLAY
	HIGHWAY BOUNDARY
	APPLICATION SITE BOUNDARY
	PROPOSED ROAD EDGE



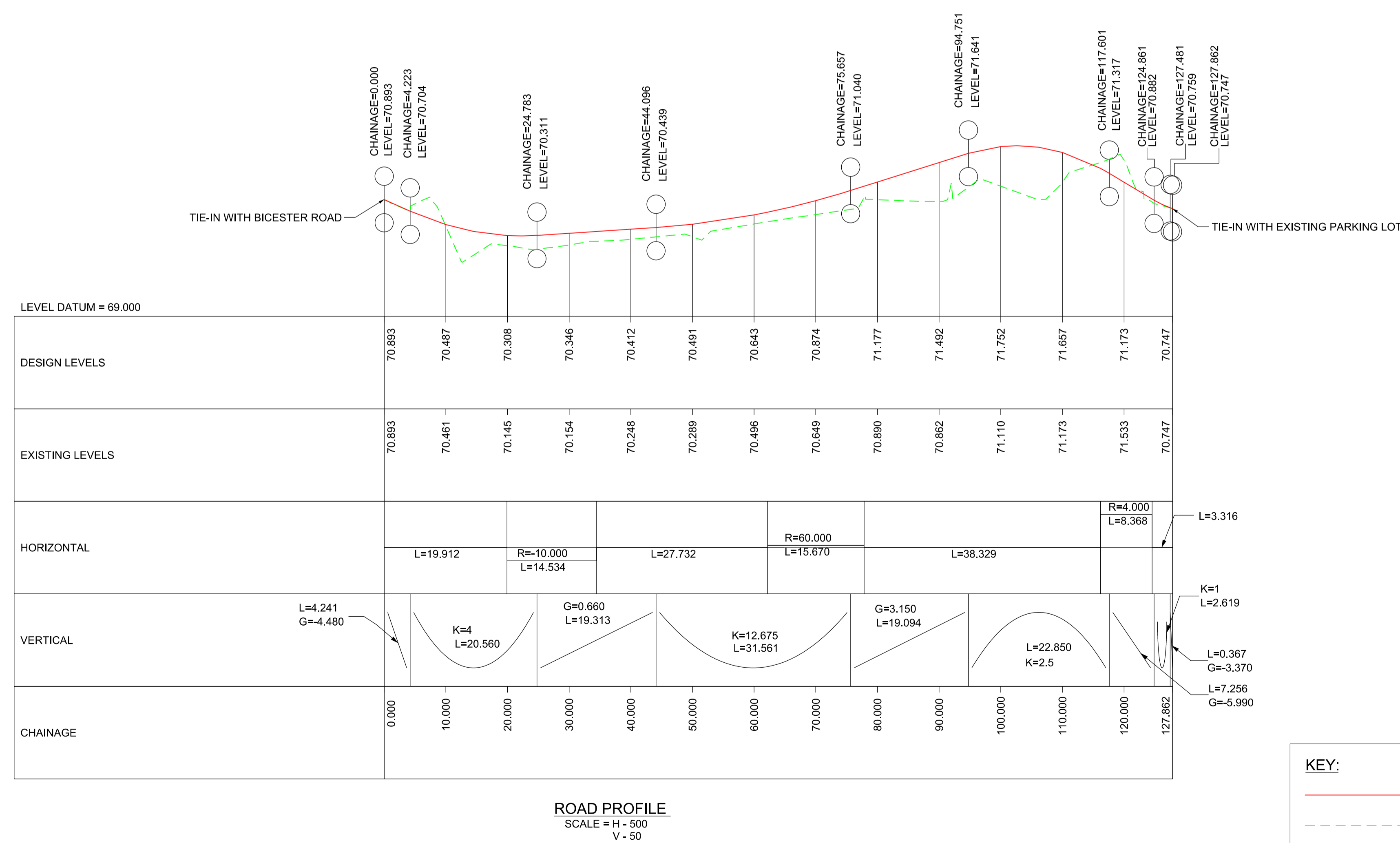
OS map data reproduced by permission of Ordnance Survey on behalf of
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license number 0100040692

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 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.



SCALE : AS SHOWN
@ A1 SHEET SIZE

ROAD PROFILE
SCALE = H - 500
V - 50

KEY:

— NEW ROAD EDGE LEVEL

- - - EXISTING SURFACE LEVEL

DRAFT

B01	13/02/20	FOR INFORMATION	N.T.	L.T.	S.A.
Rev	Date	Description of Revisions	Dnd	Chkd	Appr
Status	SHARED - for Information				S2



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)
AS SHOWN

ELR - Project Chainage (Miles Yards)
OXD -

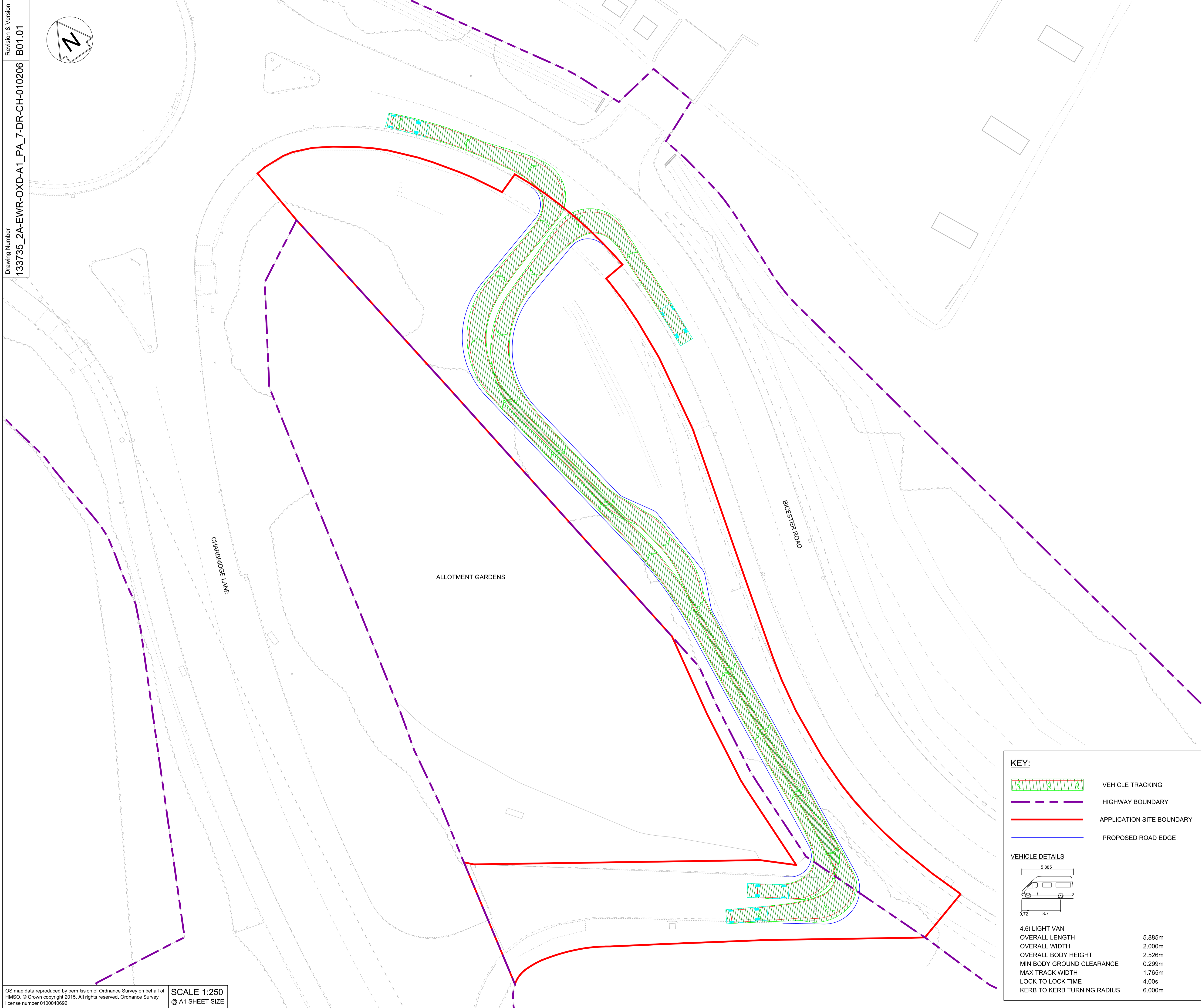
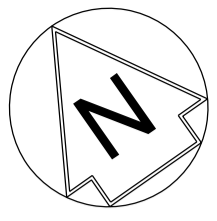
Design Package Risk Classification
Normal

Alternative Reference

Drawing Number
133735_2A-EWR-OXD-A1_PA_7-DR-CH-010204

Sheet
1 of 1

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. 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.
 6. THE ACCESS IS SIGNAL CONTROLLED AND WILL OPERATE AS ONE VEHICLE IN AND ONE VEHICLE OUT AT A TIME.

DRAFT

Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	13/02/20	FOR INFORMATION				S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
ALTERNATIVE ACCESS TO CHARBRIDGE LANE ALLOTMENTS VEHICLE SWEEPED PATH ANALYSIS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	12/02/20
Drawn	Ravikumar KN	Signed	R. KN	Date	18/12/19
Checked	Lisa Taylor	Signed	L. Taylor	Date	12/02/20
Approved	Stephen Abe	Signed	S. Abe	Date	13/02/20

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-A1_PA_7-DR-CH-010206

KEY:

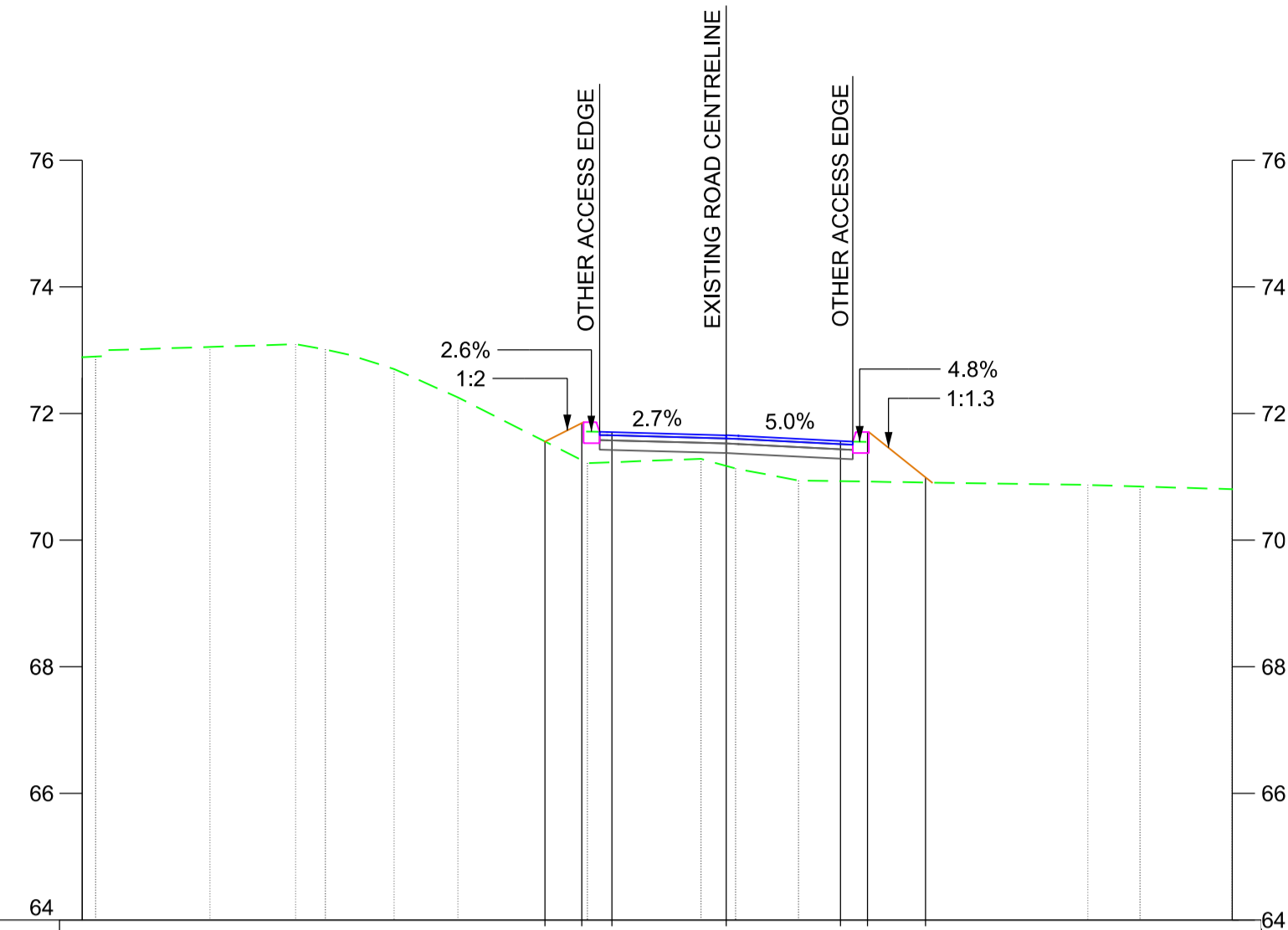
- VEHICLE TRACKING
- HIGHWAY BOUNDARY
- APPLICATION SITE BOUNDARY
- PROPOSED ROAD EDGE

VEHICLE DETAILS

4.6t LIGHT VAN
 OVERALL LENGTH 5.885m
 OVERALL WIDTH 2.000m
 OVERALL BODY HEIGHT 2.526m
 MIN BODY GROUND CLEARANCE 0.299m
 MAX TRACK WIDTH 1.765m
 LOCK TO LOCK TIME 4.00s
 KERB TO KERB TURNING RADIUS 6.000m

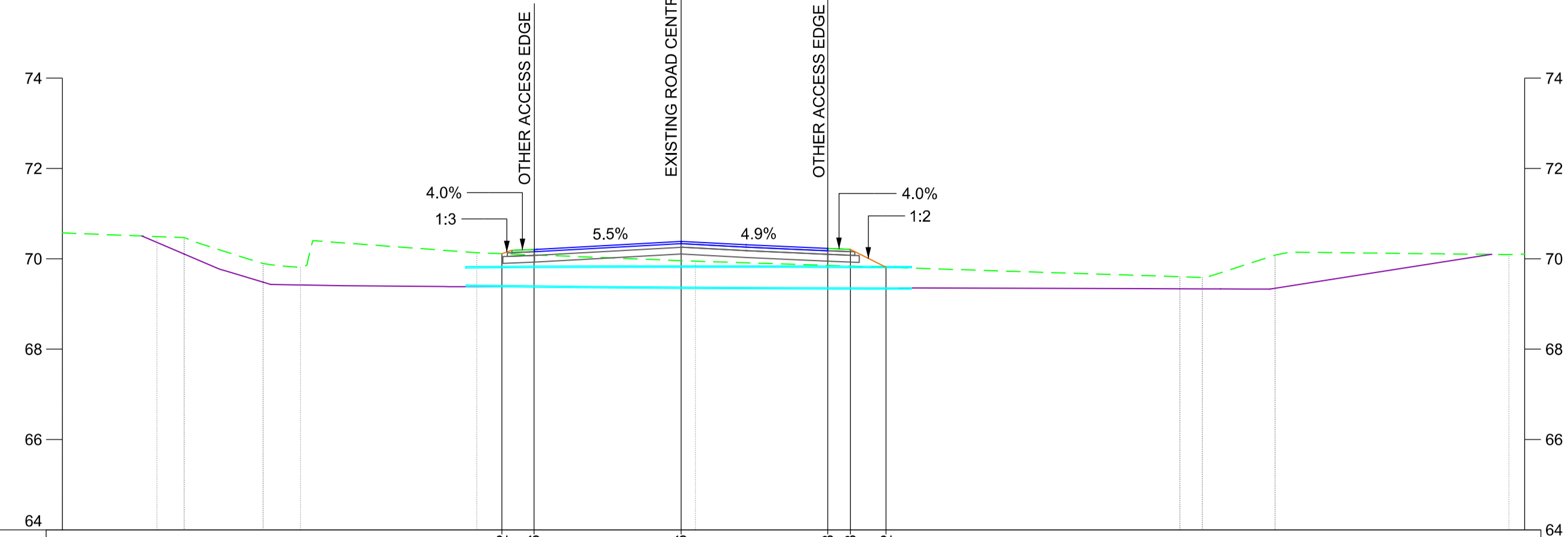
NOTES:

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.



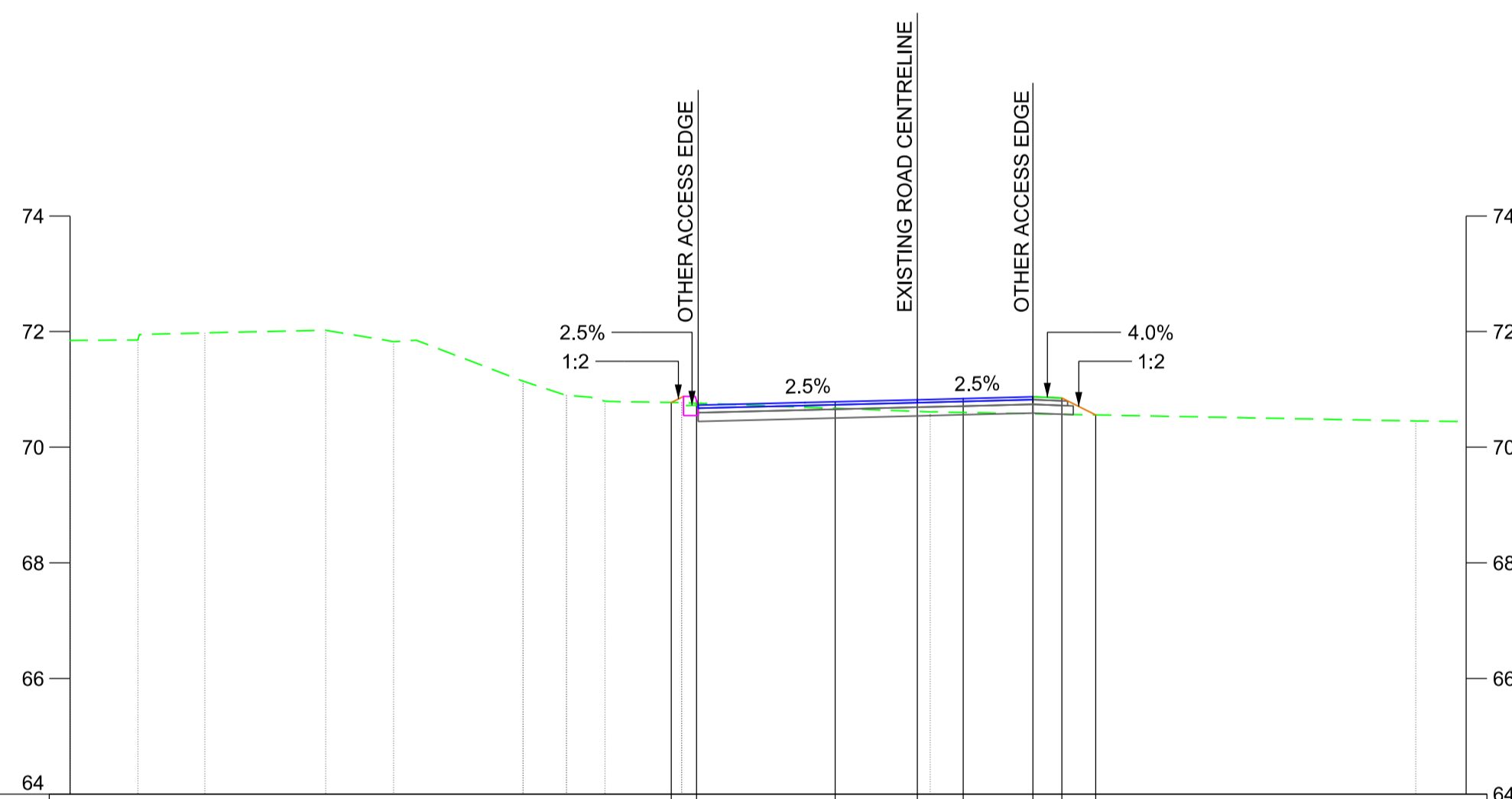
DESIGN LEVELS					71.557	71.848	71.705	71.656	71.566	71.709	70.991		
EXISTING LEVELS	72.899	73.052	73.095	73.012	72.703	72.255	71.216	71.283	71.131	70.940	70.872	70.846	
DESIGN OFFSET							-2.865	-2.283	-1.807	-0.000	1.807	2.235	3.152

CHAINAGE - 10.0000



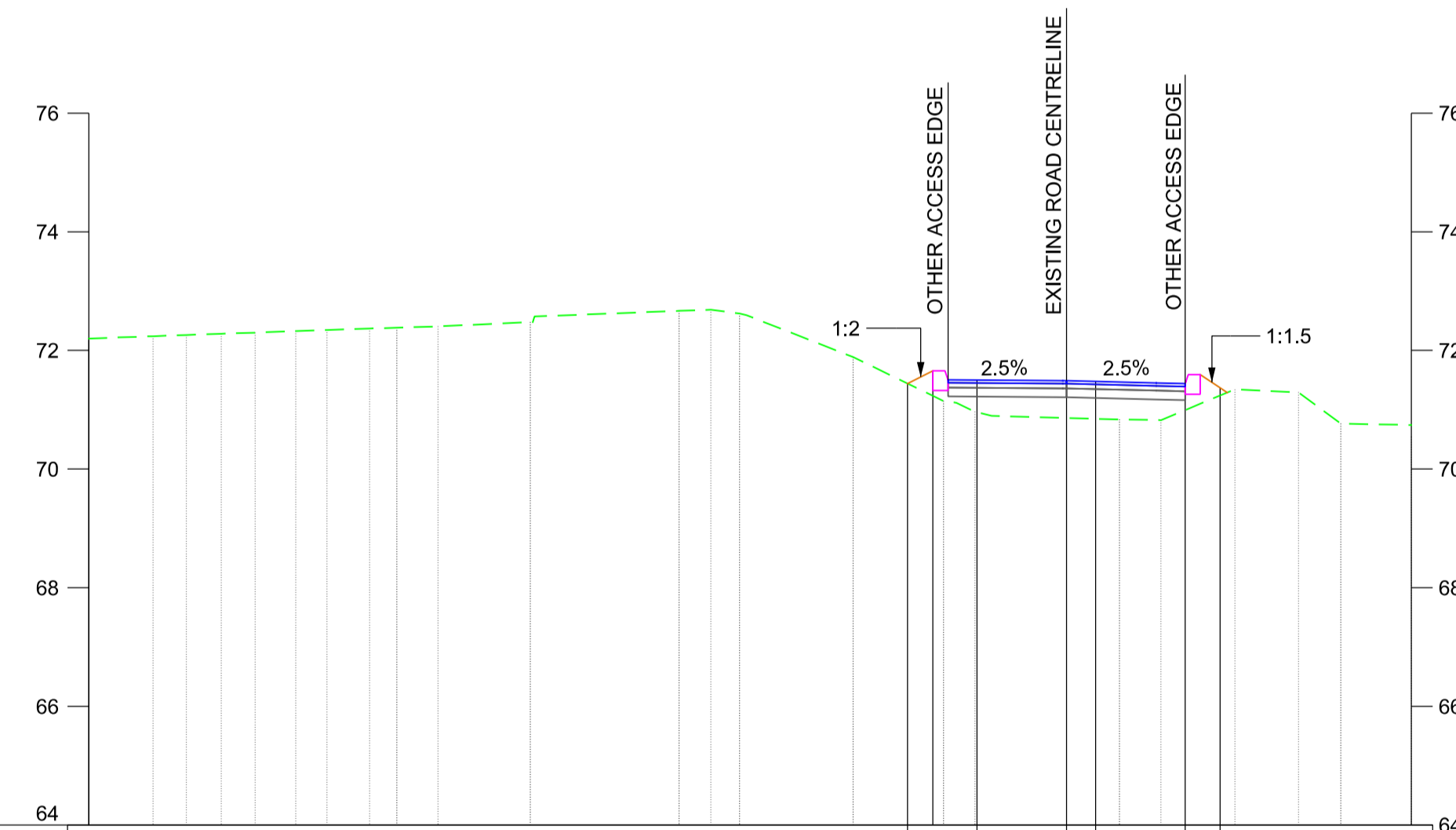
DESIGN LEVELS					70.112	70.206	70.386	70.228	70.208	69.812
EXISTING LEVELS	70.491	70.468	69.892	69.813	70.134	69.947	69.604	69.587	70.080	70.093
DESIGN OFFSET					-3.971	-3.259	0.000	3.250	3.750	4.541

CHAINAGE - 14.0000



DESIGN LEVELS									70.775	70.807	70.786	70.821	70.841	70.871	70.851	70.558
EXISTING LEVELS	71.854	71.977	72.024	71.827	71.143	70.897	70.795	70.773	70.612	70.454						
DESIGN OFFSET									-4.255	-3.818	-1.419	0.000	0.797	2.001	2.501	3.088

CHAINAGE - 68.0000



DESIGN LEVELS										71.442	71.656	71.501	71.491	71.475	71.441	71.371						
EXISTING LEVELS	72.239	72.260	72.281	72.299	72.327	72.344	72.369	72.382	72.405	72.477	72.667	72.686	72.621	71.888	71.146	70.966	70.836	70.825	71.343	71.283	70.765	
DESIGN OFFSET											-2.683	-2.294	-1.511	-0.000	0.469	2.000	2.588					

CHAINAGE - 90.0000

KEY:

- EXISTING GROUND
- PROPOSED CARRIAGEWAY
- PROPOSED ROAD PAVEMENT
- PROPOSED GRASS VERGE
- PROPOSED EARTHWORKS
- PROPOSED DITCH
- PROPOSED CULVERT
- BULL NOSED KERB



Rev	Date	Description of Revisions	Desd	Chkd	Appr
B01	13/02/20	FOR INFORMATION	N.T.	L.T.	S.A.
Status	SHARED - for Information				S2



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

Drawing Title
**ALTERNATIVE ACCESS TO
CHARBRIDGE LANE ALLOTMENTS
EXISTING AND PROPOSED
SITE SECTION PLANS**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	12/02/20
Drawn	Ravikumar KN	Signed	R. KN	Date	06/01/20
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)	Sheet	1 of 1
AS SHOWN	OXD -	Design Package Risk Classification	Normal
Alternative Reference		Revision	B01

Drawing Number
133735_2A-EWR-OXD-A1_PA_7-DR-CH-010207