

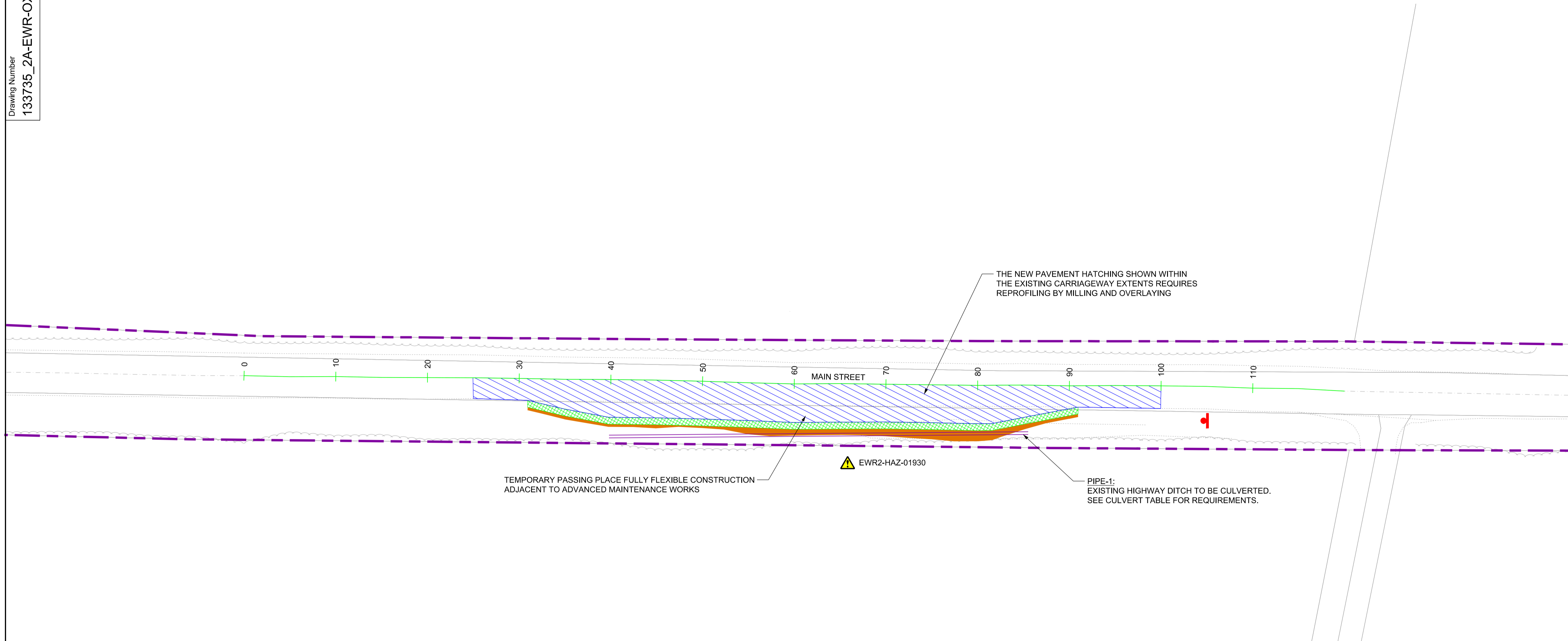
	PIPE-1	
	UPSTREAM	DOWNSTREAM
EASTINGS:	462206.641	462250.823
NORTHINGS:	226786.891	226775.440
EXISTING DITCH LEVELS:	98.983	98.062
PIPE INVERT:	98.844	97.615
HEADWALL:	TYPE 1	TYPE 1
PIPE TYPE:	FILTER PIPE	
MINIMUM COVER:	300mm	

NOTES:

- PIPE PERFORATIONS ARE TO BE LAID FACING UPWARDS.
- REFER TO STANDARD DETAIL DRAWING 133735,RW-EWR-XX-XX-DR-CH-000131 FOR PIPE SURROUND AND BEDDING TYPES.
- 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

- 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)'.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	12/08/19	FOR INFORMATION				S2



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

Drawing Title
**PASSING PLACE A3_P_3
GENERAL ARRANGEMENT**

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	08/08/19
Drawn	Ravikumar KN	Signed	R. KN	Date	22/01/19
Checked	Nadeem Rashid	Signed	N. Rashid	Date	08/08/19
Approved	Edward Findlay	Signed	E. Findlay	Date	08/08/19

Scale(s)
1:250

Design Package Risk Classification
Normal

Alternative Reference

Drawing Number
133735_2A-EWR-OXD-A3_P_3-DR-CH-010001

Sheet
1 of 1

Revision
B01

KEY:

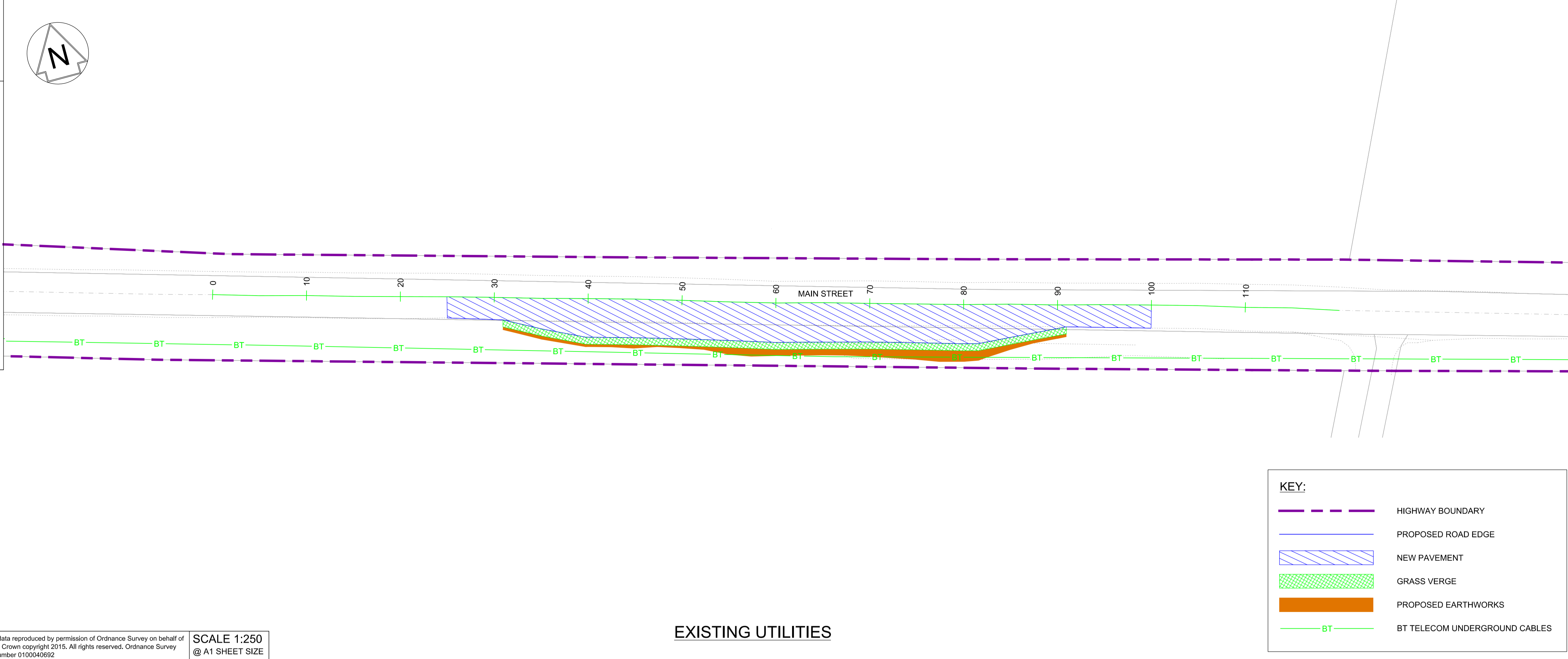
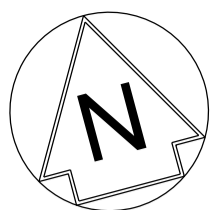
- HIGHWAY BOUNDARY
- EXISTING ROAD EDGE
- PROPOSED ROAD EDGE
- ===== PROPOSED DRAINAGE CULVERT
- ▨ NEW PAVEMENT
- ▨ GRASS VERGE
- █ PROPOSED EARTHWORKS
- ⊕ PROPOSED TRAFFIC SIGN

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-01930	PRESENCE OF BURIED SERVICES/ UTILITIES

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

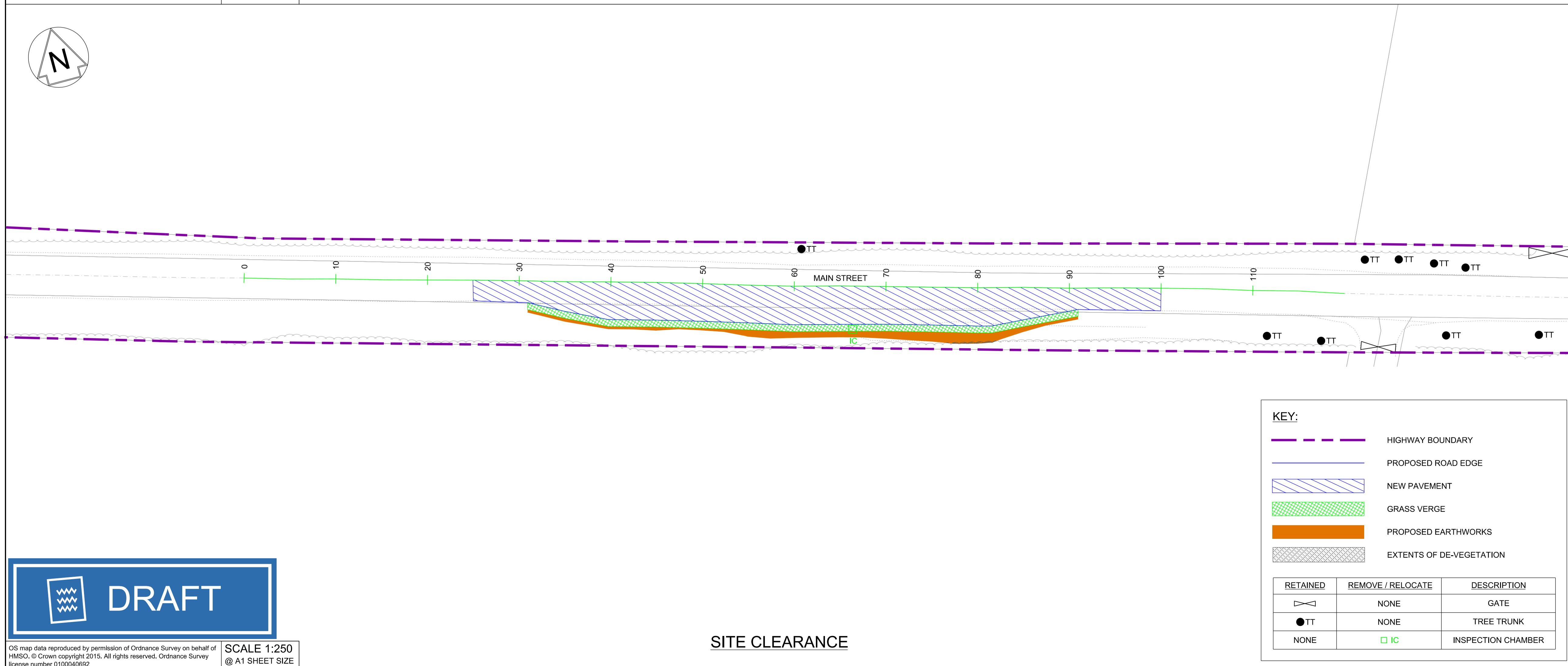


EXISTING UTILITIES

KEY:

	HIGHWAY BOUNDARY
	PROPOSED ROAD EDGE
	NEW PAVEMENT
	GRASS VERGE
	PROPOSED EARTHWORKS
	BT TELECOM UNDERGROUND CABLES

OS map data reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright 2015. All rights reserved. Ordnance Survey license number 0100040692
SCALE 1:250 @ A1 SHEET SIZE



SITE CLEARANCE

KEY:

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

RETAINED	REMOVE / RELOCATE	DESCRIPTION
	NONE	GATE
	NONE	TREE TRUNK
NONE		INSPECTION CHAMBER

OS map data reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright 2015. All rights reserved. Ordnance Survey license number 0100040692
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.
- 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.
- 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.
- 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.
- 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.
- 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	Dsmd	Chkd	Appr	Suitability
B01	12/08/19	FOR INFORMATION				

SHARED - for Information S2

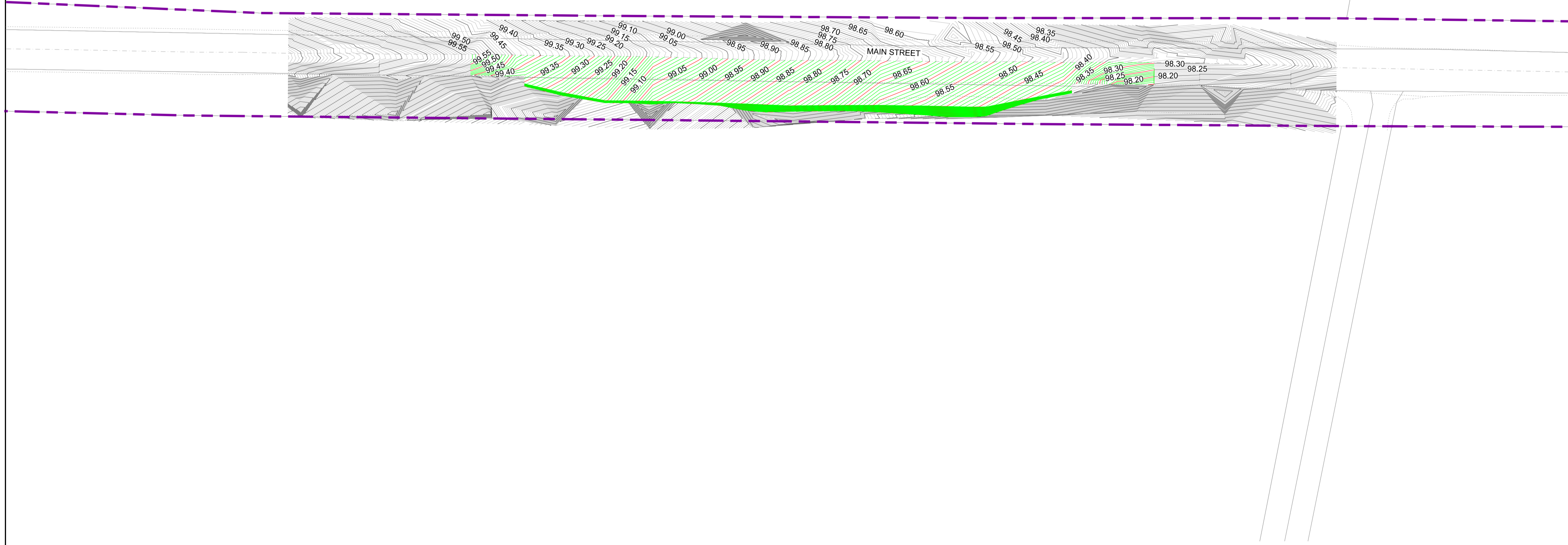
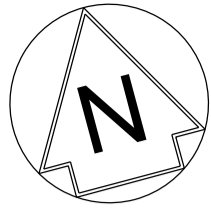


Project
East West Rail (Western Section) Phase 2

Drawing Title
PASSING PLACE A3_P_3 EXISTING UTILITIES AND SITE CLEARANCE

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	08/08/19	
Drawn	Ravikumar KN	Signed	R. KN	Date	22/01/19	
Checked	Nadeem Rashid	Signed	N. Rashid	Date	08/08/19	
Approved	Edward Findlay	Signed	E. Findlay	Date	08/08/19	
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-A3_P_3-DR-CH-010002					





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.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	12/08/19	FOR INFORMATION				



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

Drawing Title
**PASSING PLACE A3_P_3
EXISTING AND PROPOSED
CONTOURS**

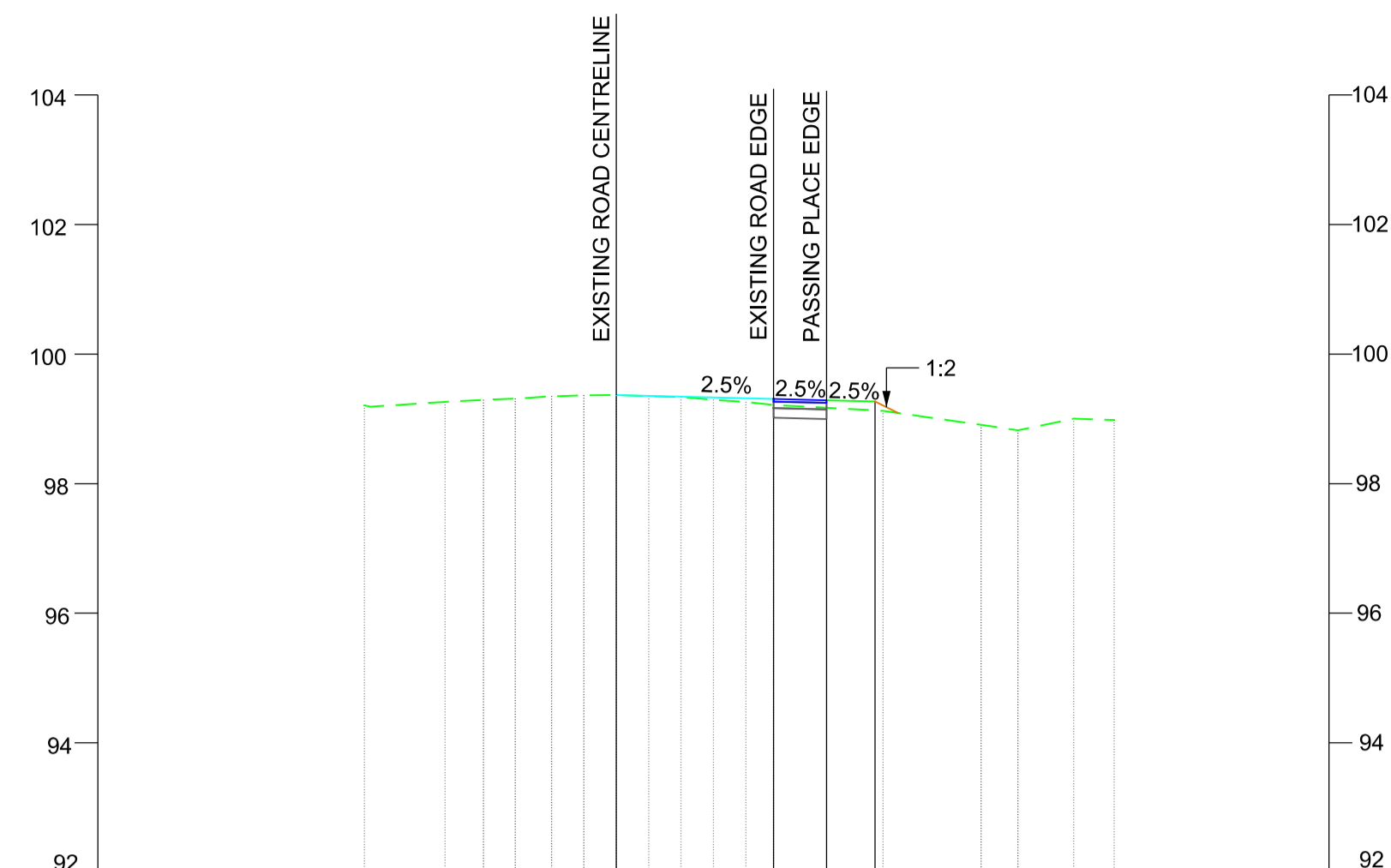
Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	08/08/19
Drawn	Ravikumar KN	Signed	R. KN	Date	22/01/19
Checked	Nadeem Rashid	Signed	N. Rashid	Date	08/08/19
Approved	Edward Findlay	Signed	E. Findlay	Date	08/08/19

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-A3_P_3-DR-CH-010003

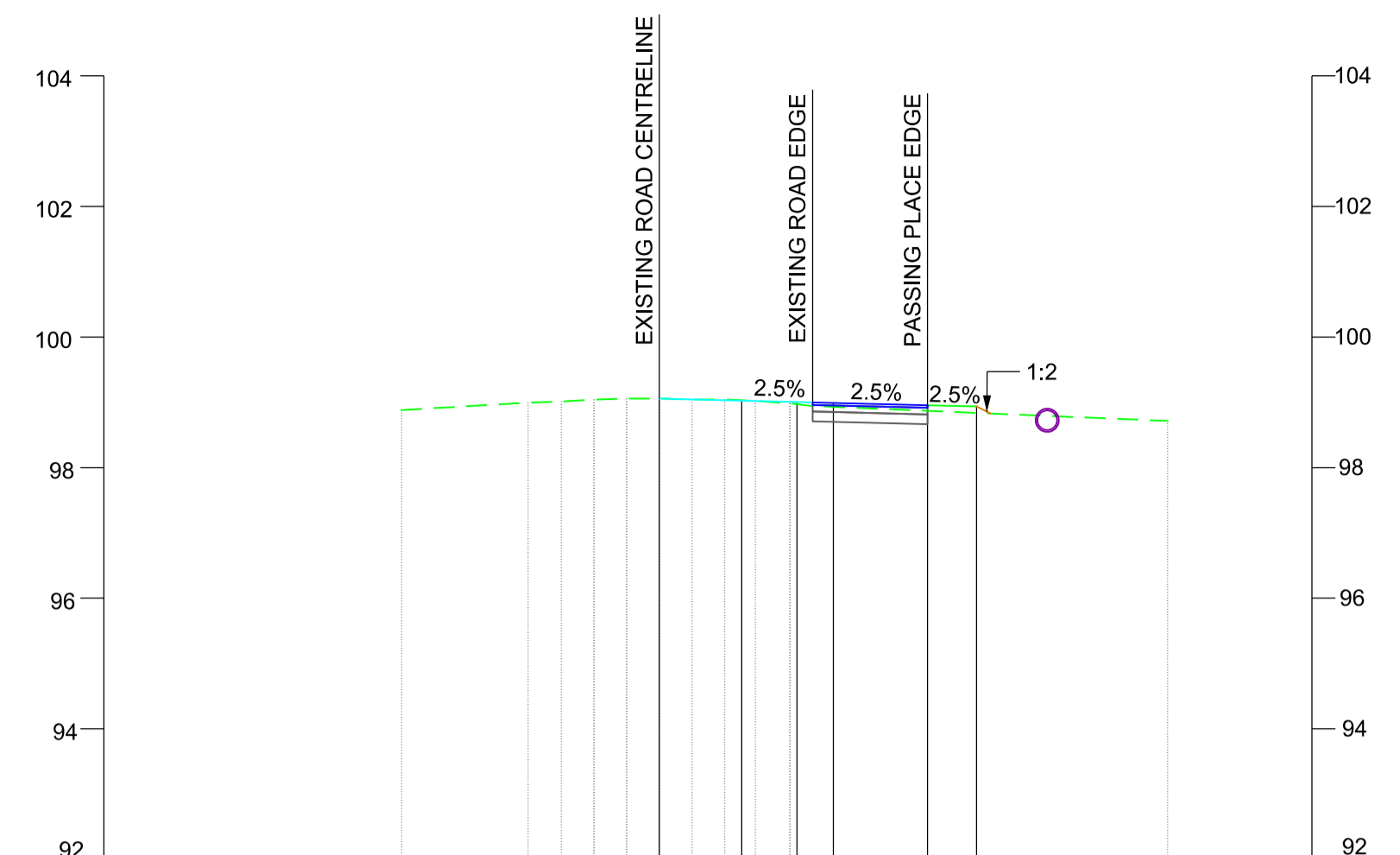
KEY:

	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



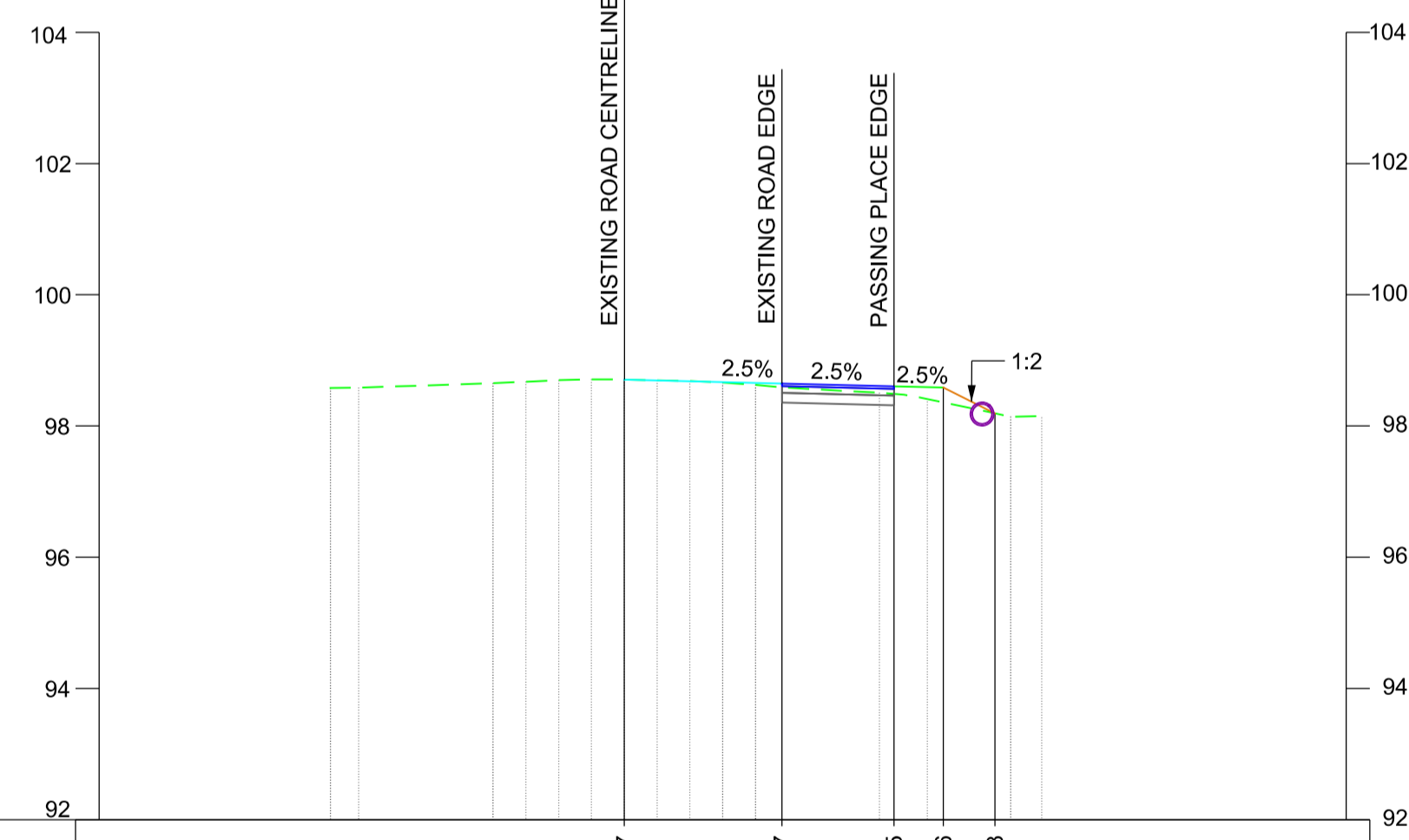
DESIGN LEVELS		99.367	99.306	99.286	99.267	
EXISTING LEVELS	99.208	99.262	99.292	99.313	99.348	99.363
DESIGN OFFSET		-0.000	2.427	3.244	3.994	

CHAINAGE - 35.0000



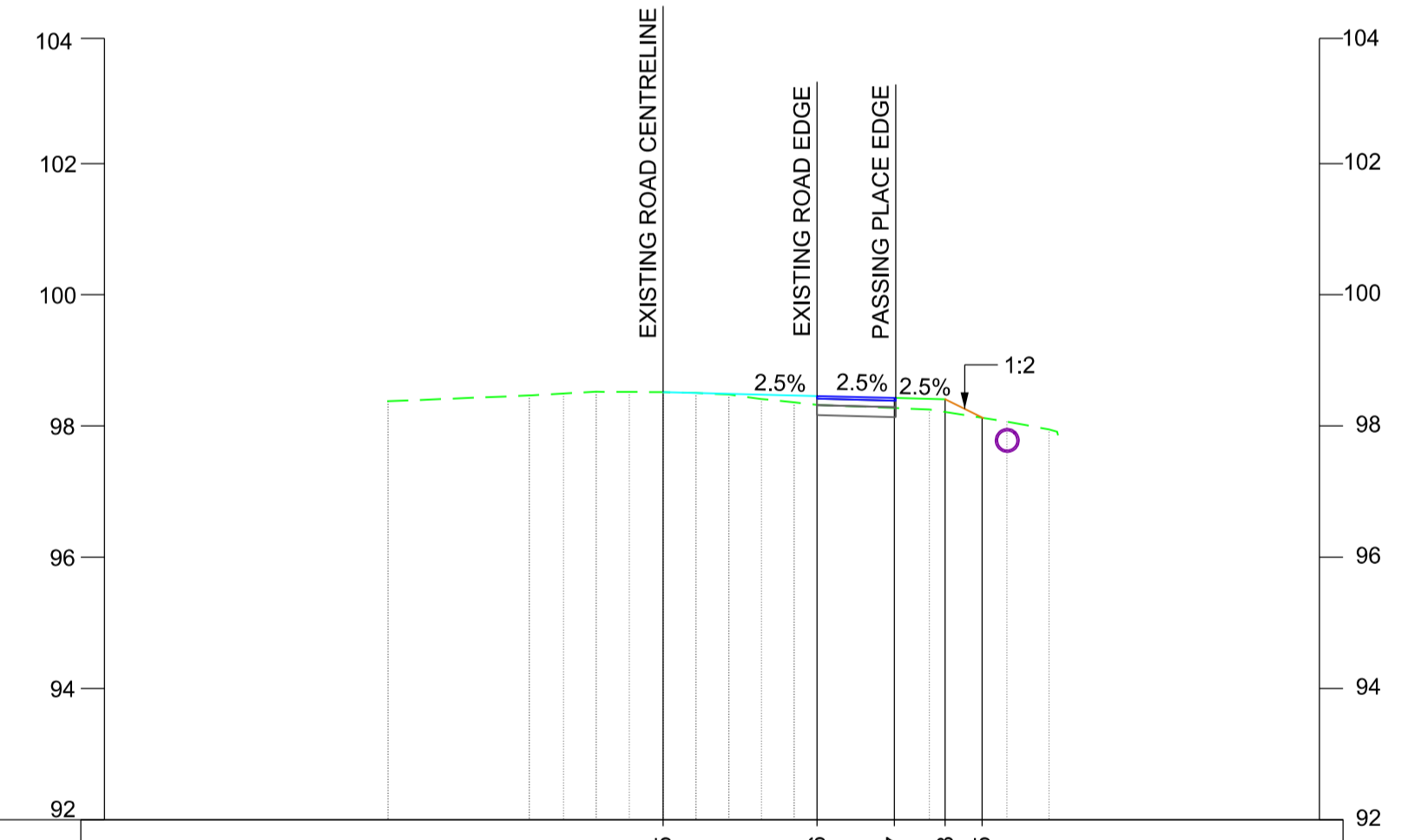
DESIGN LEVELS		99.057	99.025	99.004	98.990	98.954	98.936	
EXISTING LEVELS	98.882	98.894	99.012	99.042	99.056	99.042	99.021	98.982
DESIGN OFFSET		0.000	1.263	2.110	2.666	4.110	4.860	

CHAINAGE - 50.0000



DESIGN LEVELS		98.707	98.647	98.605	98.586	98.193
EXISTING LEVELS	98.578	98.584	98.653	98.676	98.698	98.712
DESIGN OFFSET		-0.000	2.401	4.111	4.861	5.648

CHAINAGE - 70.0000



DESIGN LEVELS		98.515	98.456	98.427	98.408	98.125
EXISTING LEVELS	98.377	98.465	98.495	98.522	98.520	98.515
DESIGN OFFSET		-0.000	2.345	3.522	4.295	4.861

CHAINAGE - 85.0000

KEY:

- EXISTING GROUND
- EXISTING CARRIAGEWAY
- PROPOSED CARRIAGEWAY
- PROPOSED ROAD PAVEMENT
- PROPOSED GRASS VERGE
- PROPOSED EARTHWORKS
- PROPOSED DRAINAGE CULVERT

SCALE H - 1:1000
V - 1:100
@ 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.
- CHAINAGES SHOWN ON THIS DRAWING ARE ALONG THE ROAD CENTRELINE AS SEEN ON GENERAL ARRANGEMENT DRAWING.



Rev	Date	Description of Revisions	Dsnd	Chkd	Appr
B01	12/08/19	FOR INFORMATION		N.T.	N.R.
Status	SHARED - for Information				S2



Project
East West Rail (Western Section) Phase 2

Drawing Title
PASSING PLACE A3_P_3 CROSS-SECTIONS

Designed	Nagoth Thomas Ravi Kumar	Signed	N. T. R. Kumar	Date	08/08/19
Drawn	Ravikumar KN	Signed	R. KN	Date	22/01/19
Checked	Nadeem Rashid	Signed	N. Rashid	Date	08/08/19
Approved	Edward Findlay	Signed	E. Findlay	Date	08/08/19

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-A3_P_3-DR-CH-030001