

	PIPE-1	
	UPSTREAM	DOWNSTREAM
EASTINGS:	462873.028	462922.649
NORTHINGS:	226496.509	226479.661
EXISTING DITCH LEVELS:	94.725	94.374
PIPE INVERT:	94.633	94.272
HEADWALL:	TYPE 1	TYPE 1
PIPE TYPE:	FILTER PIPE	
MINIMUM COVER:	300mm	

NOTES:

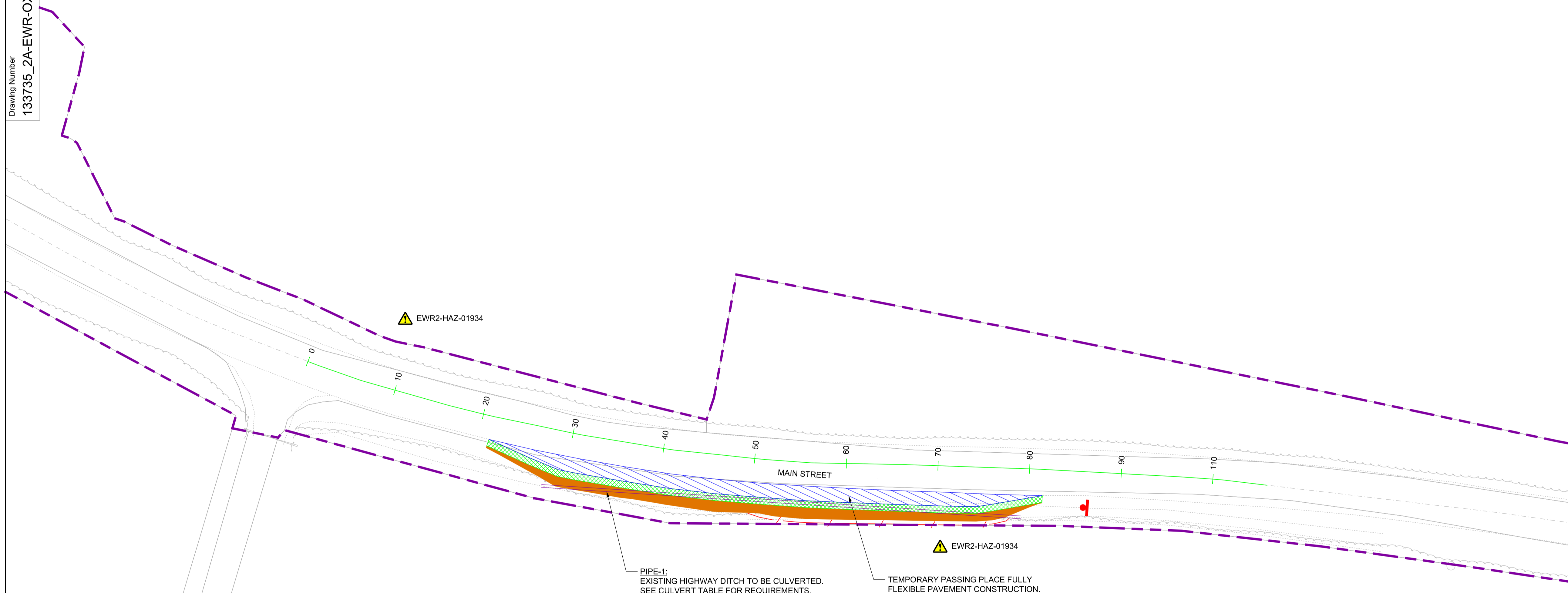
- PIPE PERFORATIONS ARE TO BE LAID FACING UPWARDS.
- REFER TO STANDARD DETAIL DRAWING 133735_RW-EWR-XX-XX-DR-CH-000131 FOR PIPE SURROUND AND BEDDING TYPES.
- THE EXISTING DITCH INVERT LEVELS ARE TAKEN FROM AVAILABLE TOPOGRAPHIC SURVEY INFORMATION, WHERE AVAILABLE. THE DELIVERY TEAM WILL NEED TO CONFIRM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

CULVERT REQUIREMENTS

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



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

TEMPORARY PASSING PLACE FULLY
FLEXIBLE PAVEMENT CONSTRUCTION.



Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	12/08/19	FOR INFORMATION				N.T. N.R. E.F.

Rev Status: SHARED - for Information Suitability: S2



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

Drawing Title
**PASSING PLACE A3_P_7
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	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_7-DR-CH-010001

KEY:

	HIGHWAY BOUNDARY
	EXISTING ROAD EDGE
	PROPOSED ROAD EDGE
	PROPOSED DRAINAGE CULVERT
	NEW PAVEMENT
	GRASS VERGE
	PROPOSED EARTHWORKS
	PROPOSED TRAFFIC SIGN
	PROPOSED POST & WIRE FENCE

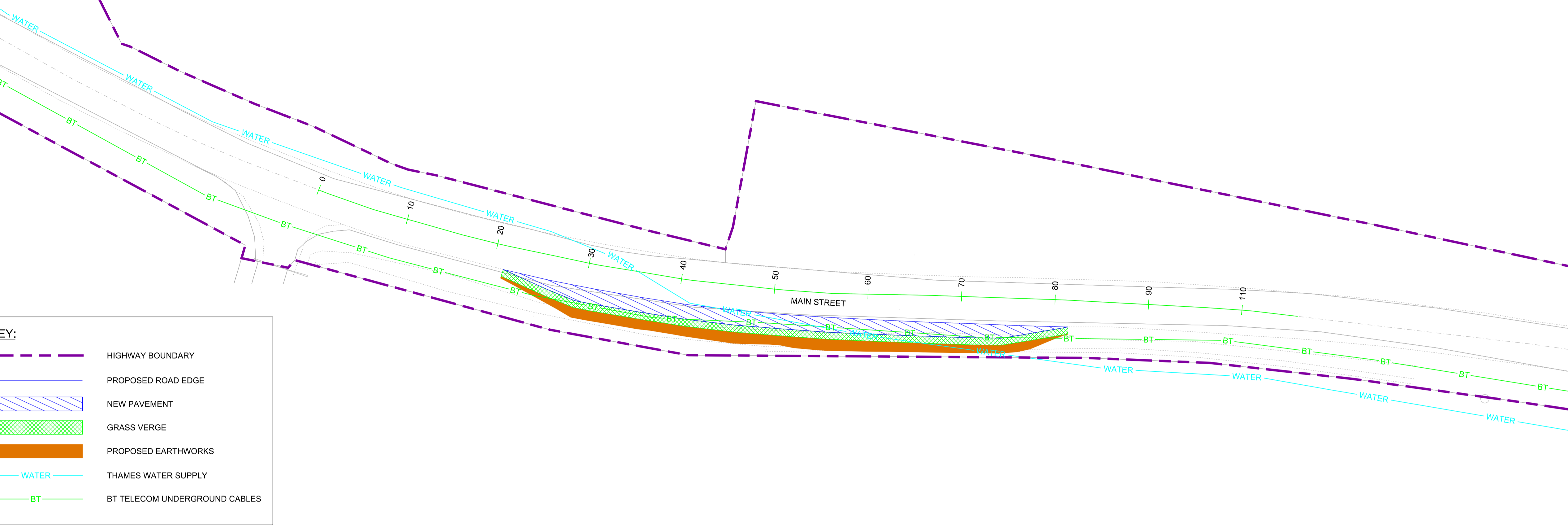
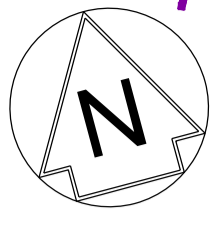
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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-01934	PRESENCE OF BURIED SERVICES/ UTILITIES

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

Revision & Version
B01.01
Drawing Number
133735_2A-EWR-OXD-A3_P_7-DR-CH-010002



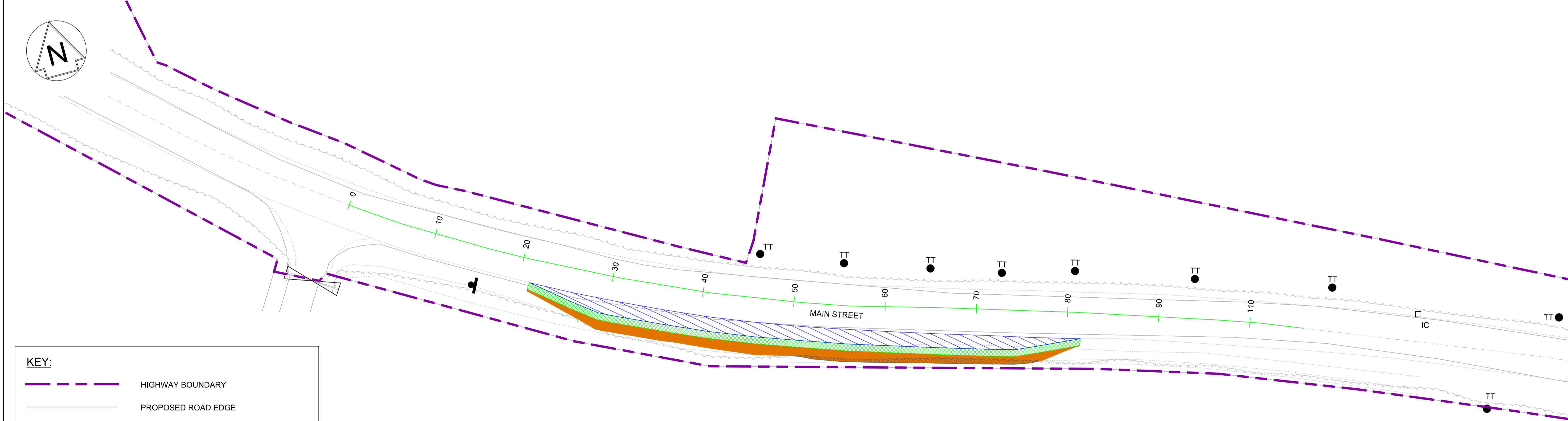
EXISTING UTILITIES

KEY:

- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- THAMES WATER SUPPLY
- BT TELECOM UNDERGROUND CABLES

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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.
 - 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 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.



SITE CLEARANCE

KEY:

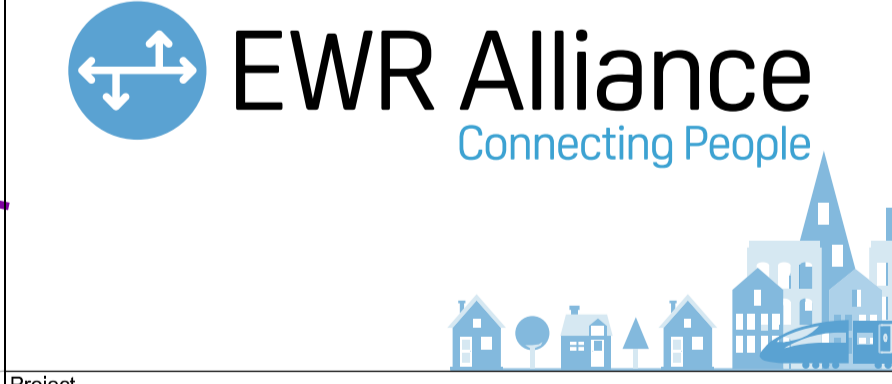
- HIGHWAY BOUNDARY
- PROPOSED ROAD EDGE
- NEW PAVEMENT
- GRASS VERGE
- PROPOSED EARTHWORKS
- EXTENTS OF DE-VEGETATION

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

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SCALE 1:250 @ A1 SHEET SIZE



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



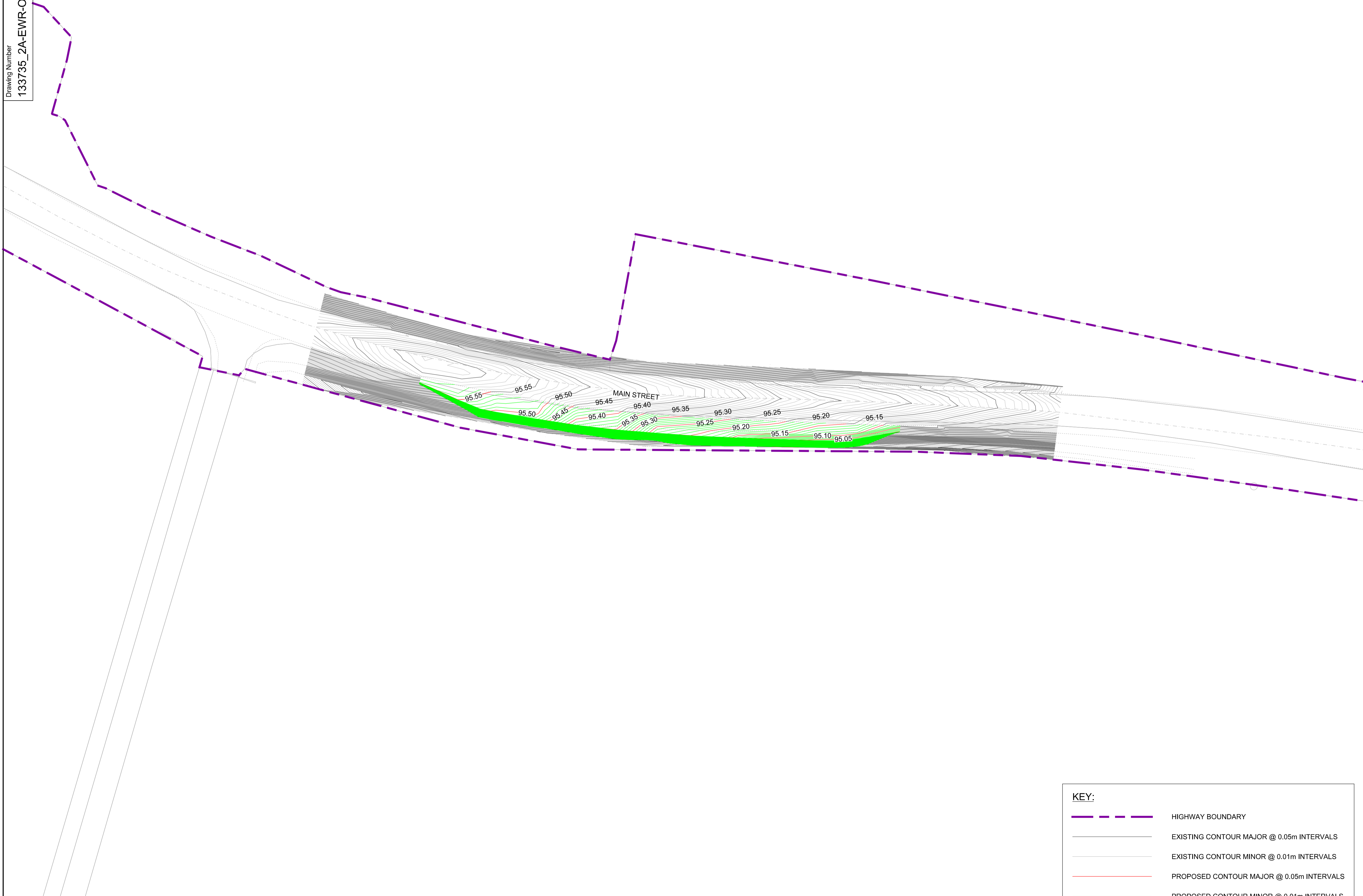
Project
East West Rail (Western Section) Phase 2

PASSING PLACE A3_P_7 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_7-DR-CH-010002



 **DRAFT**

Rev	Date	Description of Revisions	Desd	Chkd	Appr	Suitability
B01	12/08/19	FOR INFORMATION				
						N.T. N.R. E.F.
Status						S2








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

Drawing Title
**PASSING PLACE A3_P_7
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

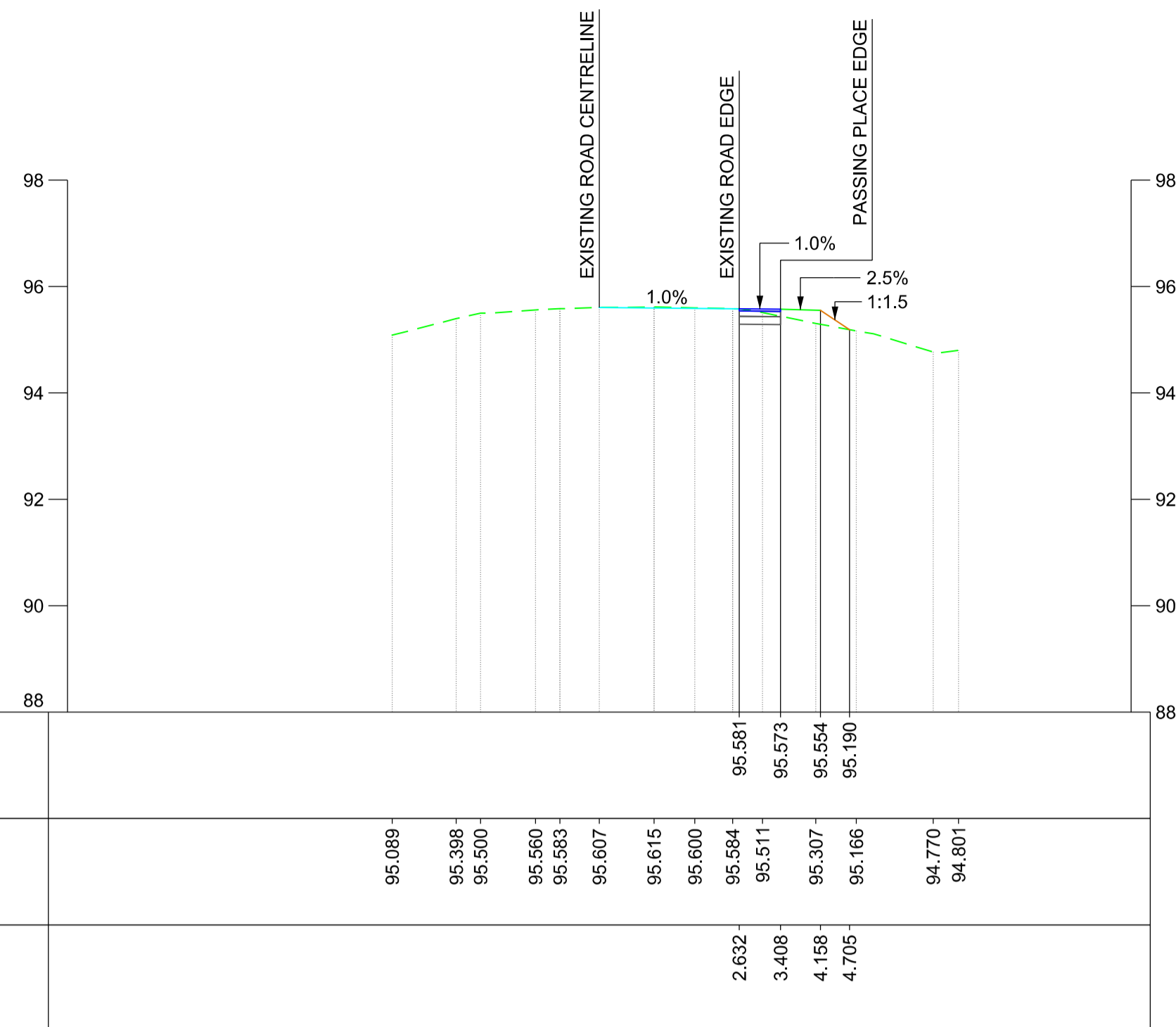
KEY:

	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

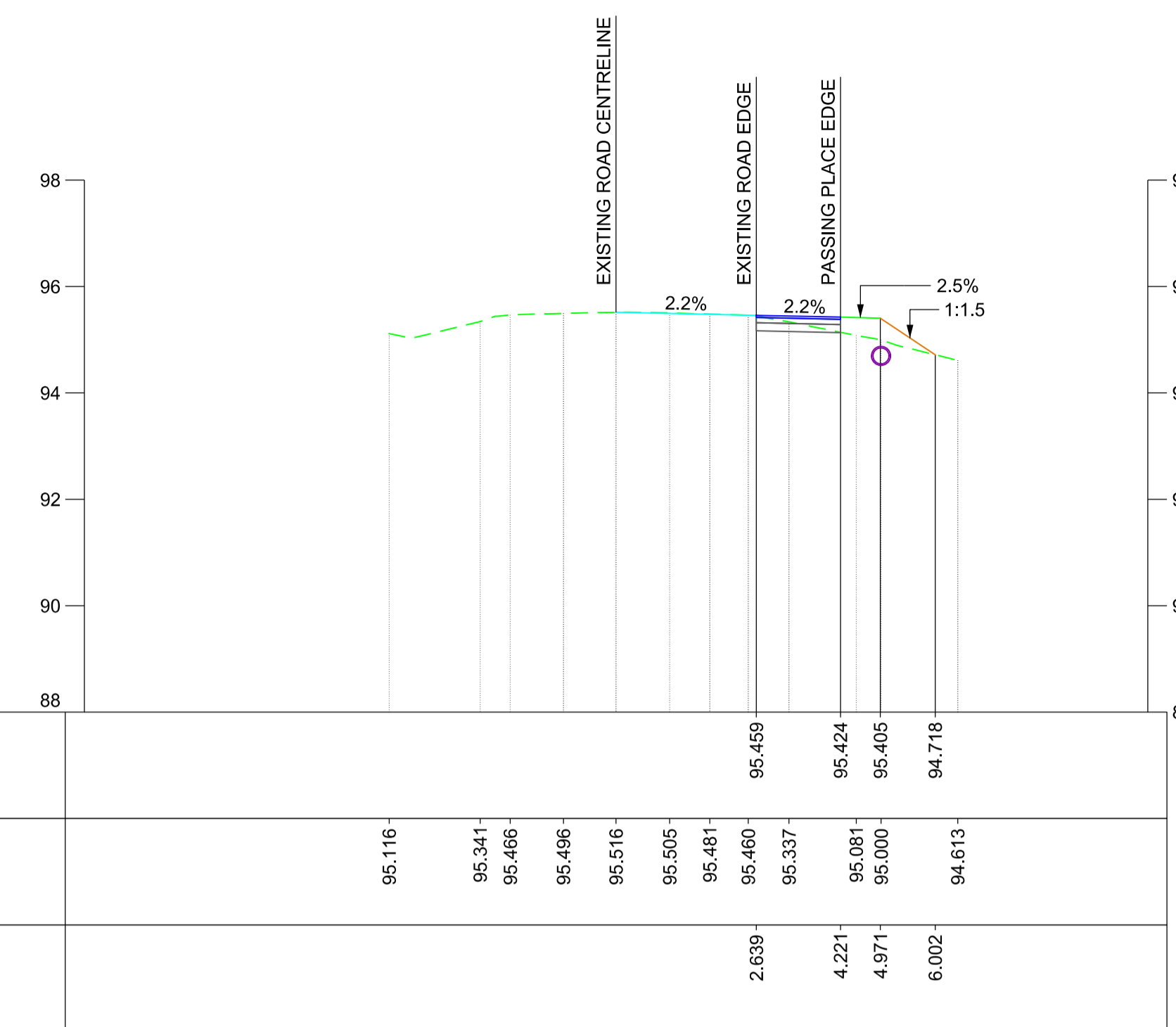
NETWORK RAIL (EAST WEST
RAIL WESTERN SECTION PHASE 2)

NOTES:

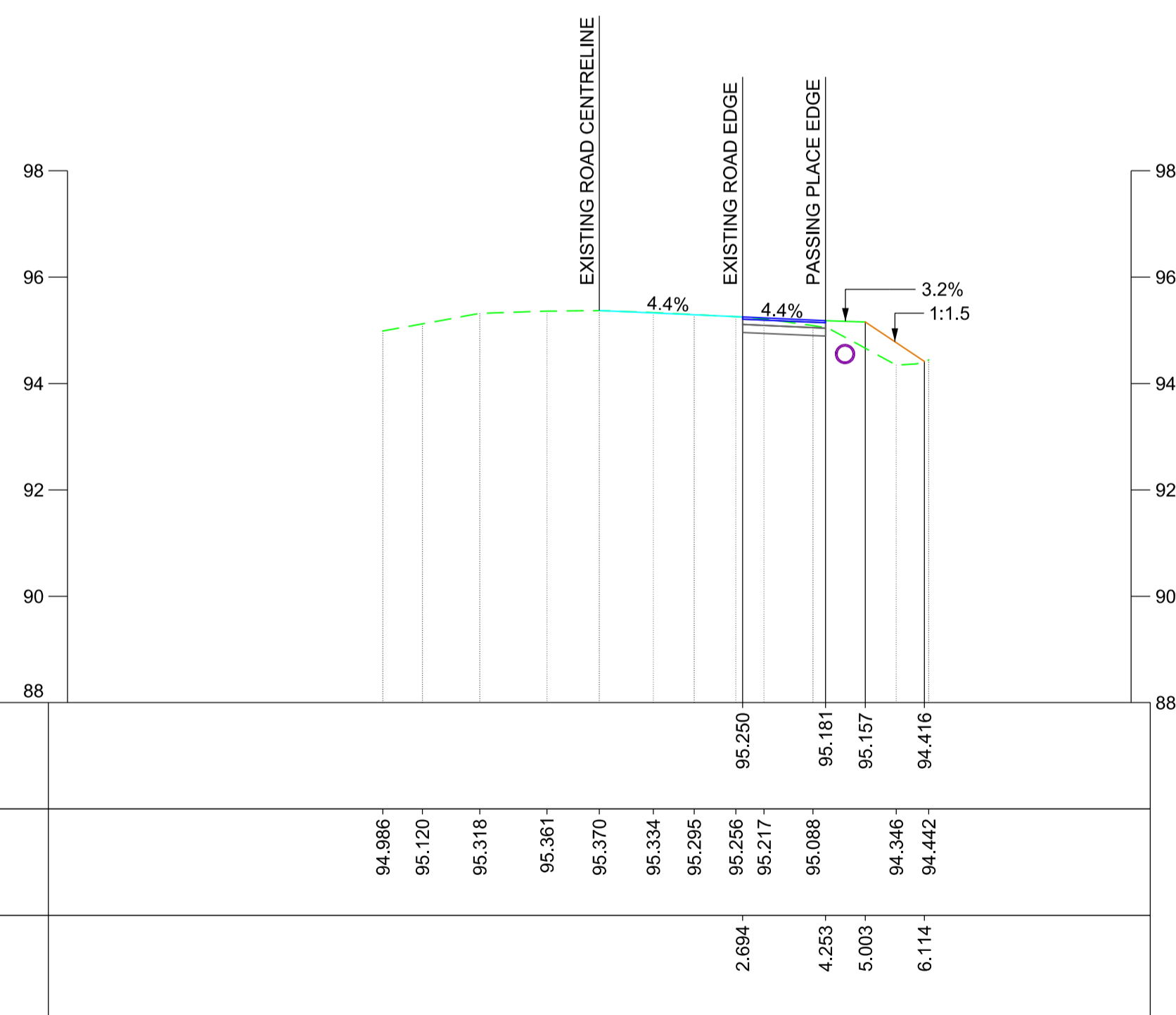
1. THIS DRAWING IS NOT TO BE SCALED.
2. ALL DIMENSIONS ARE IN METRES (m) UNLESS SHOWN OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE HIGHWAY DESIGN PACKAGE OF DRAWINGS AND DOCUMENTS.
4. CHAINAGES SHOWN ON THIS DRAWING ARE ALONG THE ROAD CENTRELINE AS SEEN ON GENERAL ARRANGEMENT DRAWING.



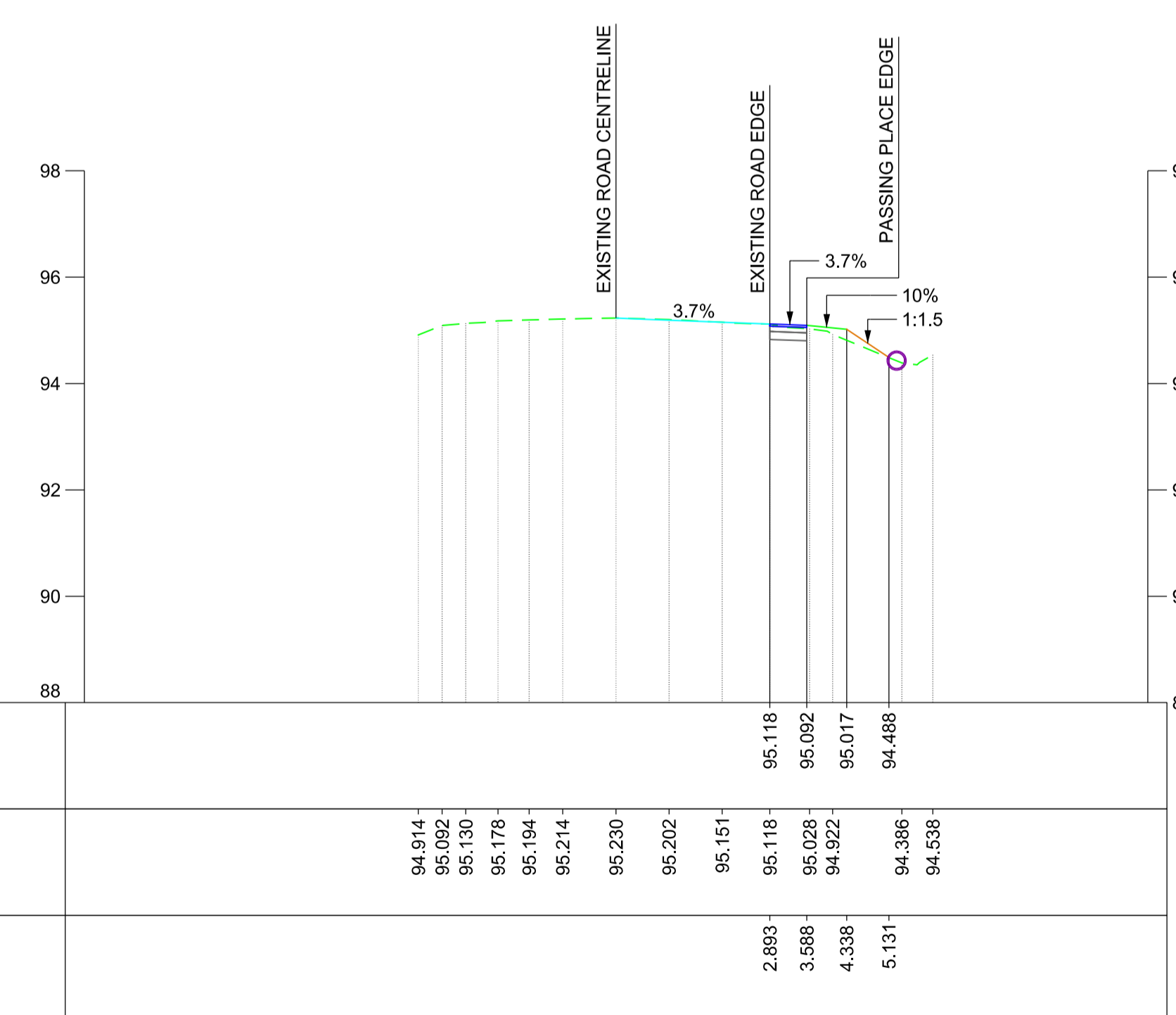
CHAINAGE - 25.0000



CHAINAGE - 40.0000



CHAINAGE - 60.0000



CHAINAGE - 78.0000

KEY:

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



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



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

Drawing Title
**PASSING PLACE A3_P_7
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)	Sheet	1 of 1
AS SHOWN	OXD -	Design Package Risk Classification	Normal
Alternative Reference		Revision	B01
Drawing Number	133735_2A-EWR-OXD-A3_P_7-DR-CH-030001		