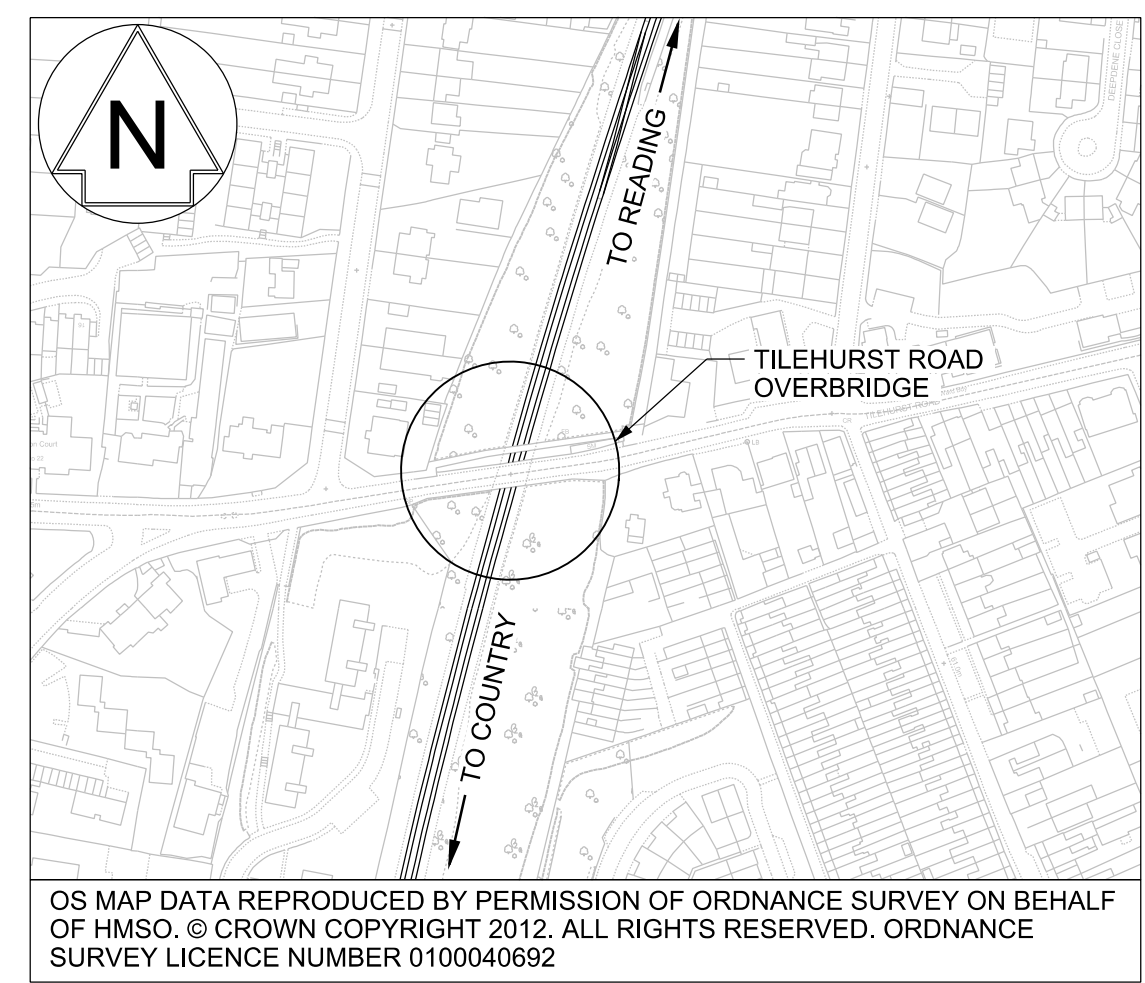
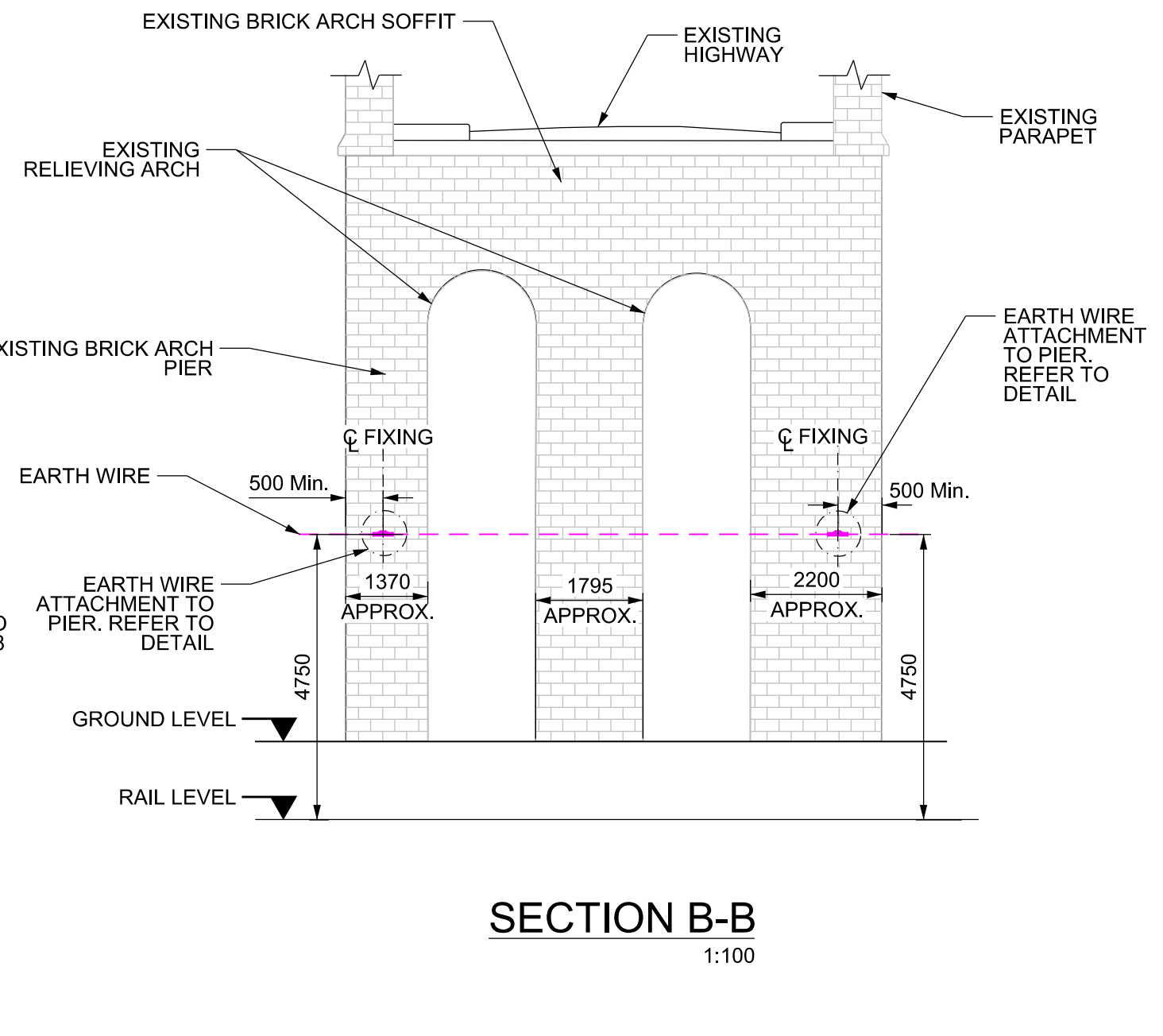
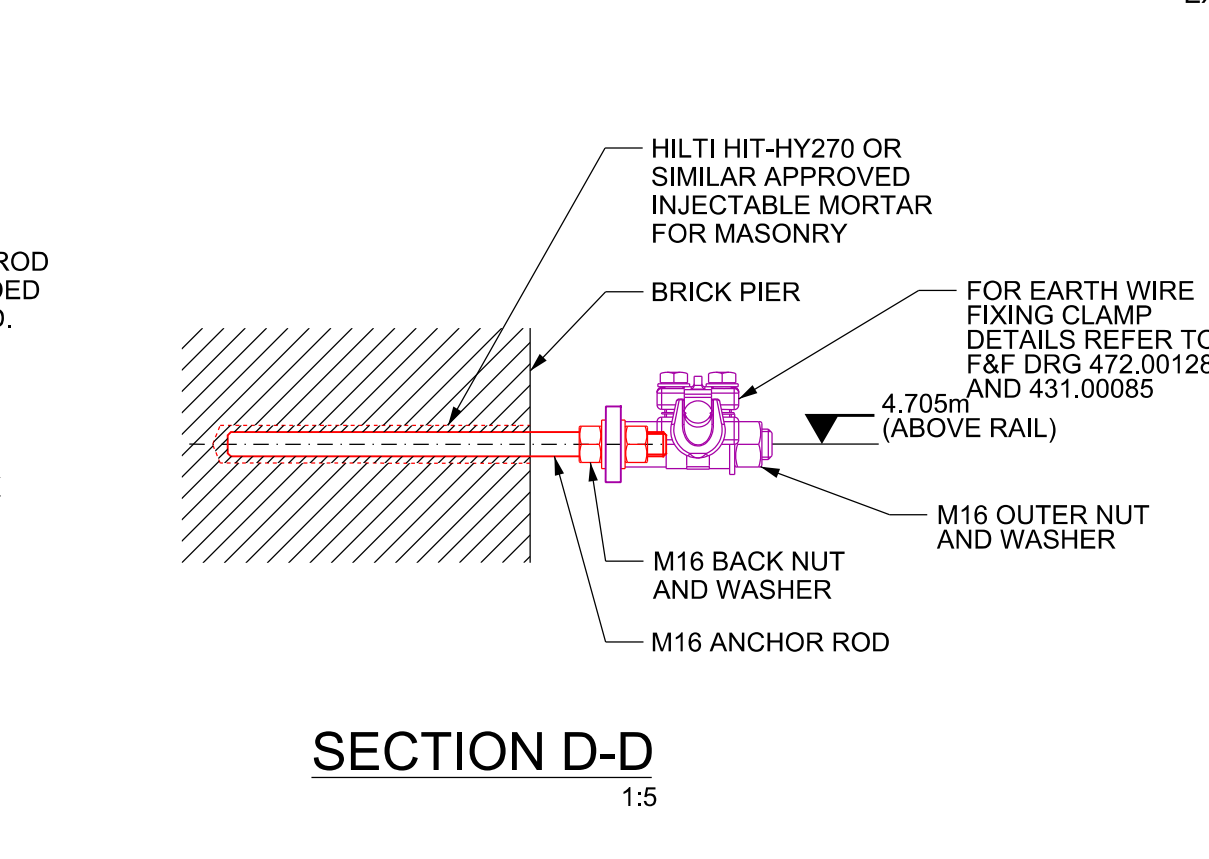
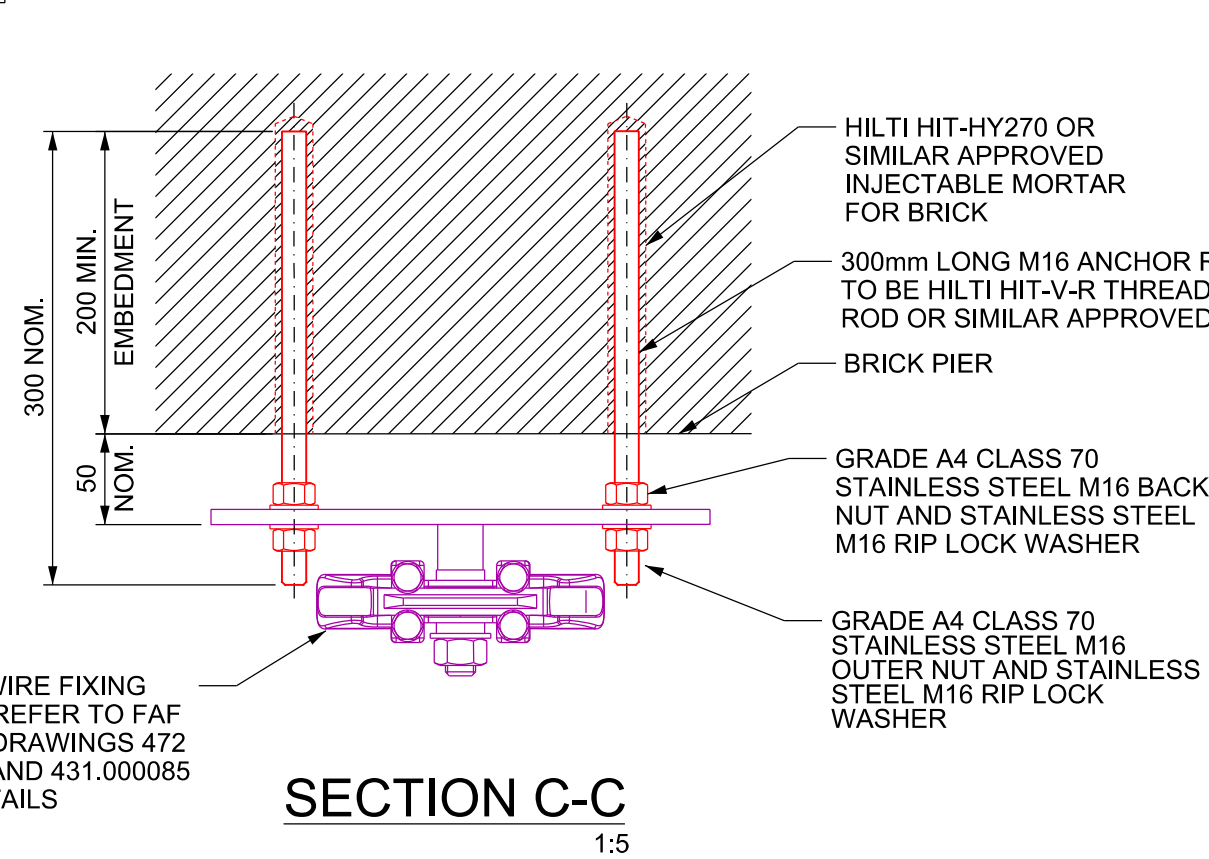
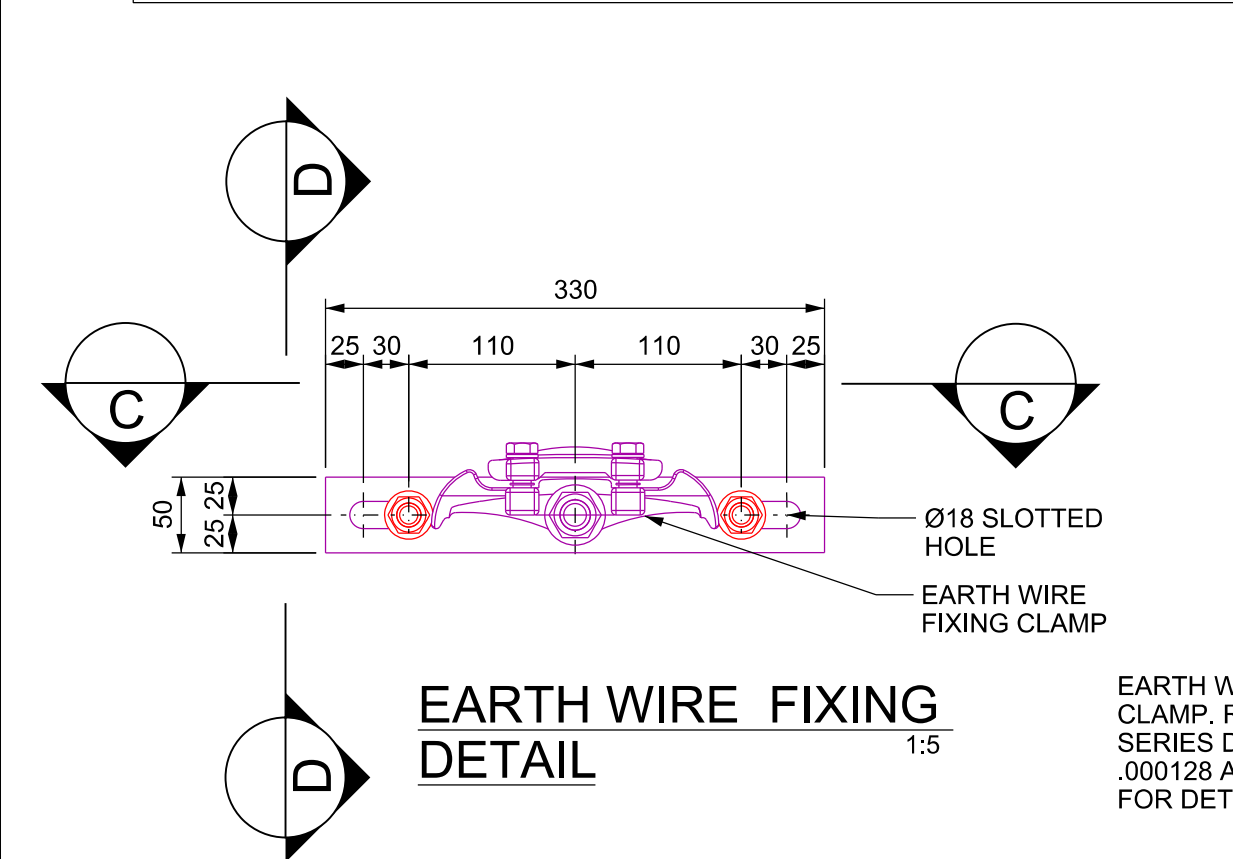
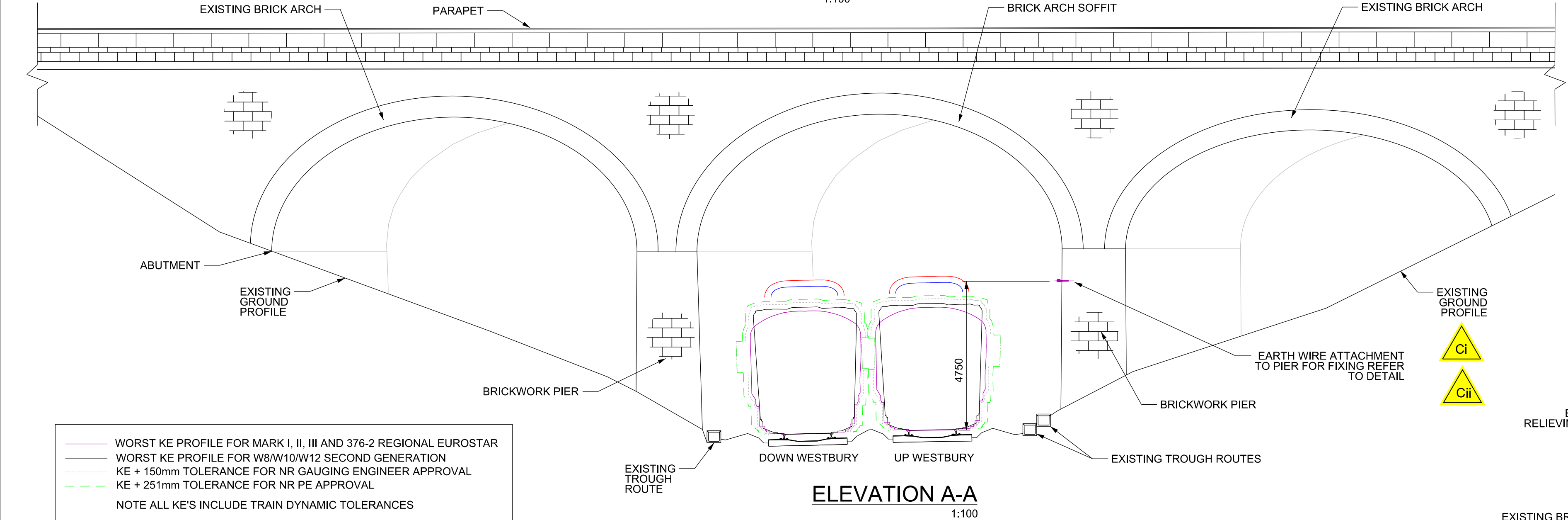
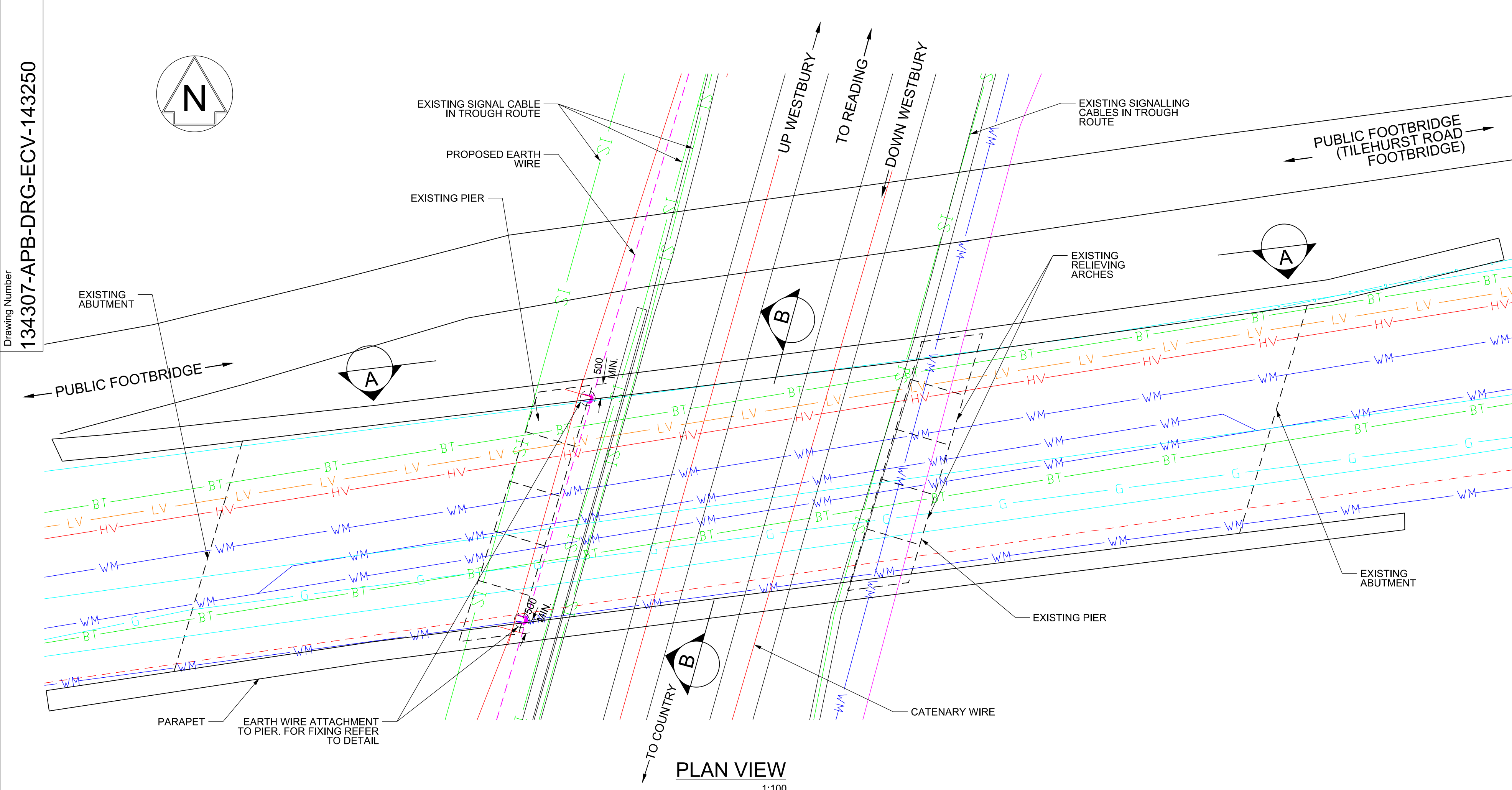




BURIED SERVICES KEY

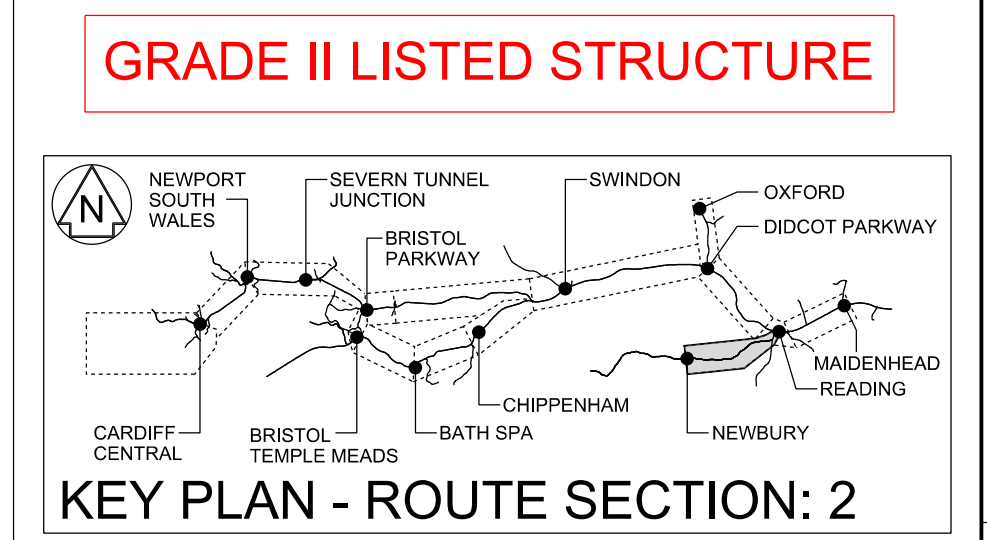
SIGNALLING CABLES	ST
BT (BRITISH TELECOMS)	BT
LOW VOLTAGE MAINS	LV
HIGH VOLTAGE MAINS	HV
GAS	G
WATER MAINS	WM
PUBLIC WATER SEWER	WS

BRIDGE CONSTRUCTION

PARAPET	BRICK
SOFFIT	BRICK
ABUTMENT, PIERS & WINGWALLS	BRICK

Safety, Health and Environmental Information
Notes below are additional to hazards/risks normally associated with this type of work:
Construction
Ci. - Working at height
Cii. - Falling tools
Operations
Oi. - None
Maintenance
Mi. - None
Dismantling/Demolition (Future)
Di. - None
These notes are based on the use of experienced and competent contractors carrying out the work using an approved safe method of working.

- Legend/Notes**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES AND ARE ABOVE ORDNANCE DATUM.
 - ALL CO-ORDINATES ARE GIVEN TO OSGB36 GRID AND ARE STATED IN METRES UNLESS NOTED OTHERWISE.
 - SURVEY INFORMATION BASED ON FUGRO MODEL No: 118049-FGS-MOD-ETR-000101 AND TOPOGRAPHICAL SURVEY MODEL No: RSS(C)-ESU-MO-ANCR 000112.
 - LOCATION: OS GRID REF SU701730.
 - THIS DRAWING RELATES TO STRUCTURAL FIXINGS OF THE EARTH WIRE. REFER TO OLE DRAWINGS 134307-APB-DRG-EOH-100187, 120146 AND 120147 FOR OLE DESIGN.
 - FOR M16 EARTH WIRE FIXINGS 1 ANCHOR IN EACH PAIR IS TO BE PROOF LOAD TESTED TO A PULL OUT LOAD OF 2kN. APPLIED LOAD TO BE LIMITED TO TEST LOAD.
 - ELEVATION BASED ON TOPOGRAPHICAL SURVEY AND AERIAL POINT CLOUD. POINTCLOUD SURVEY No: 470000_173000.pod
 - THERE IS SUFFICIENT CLEARANCE TO PROPOSED EQUIPMENT, THEREFORE CLEARROUTE ANALYSIS NOT REQUIRED.
 - FOR EARTH WIRE FIXINGS, M16 BACK NUT BEHIND THE PLATE MUST BE HELD STATIONARY WHILE THE OUTER NUT IN FRONT OF THE PLATE IS TIGHTENED IN TWO STAGES TO THE SPECIFIED TORQUES OF 185Nm AND THEN 275Nm. FIRST STAGE TORQUE TO BE APPLIED TO BOTH NUTS IN THE FIXING PRIOR TO APPLYING THE SECOND STAGE OF TORQUE. NO LUBRICATION TO BE USED. THREADED STUD TO BE CLEANED PRIOR TO FIXING INSTALLATION.
 - ALL ANCHORS TO BE DRILLED INTO THE STRUCTURE USING DRILLING TECHNIQUES AS REQUIRED BY THE RESIN MANUFACTURER. DRILLED HOLES ARE TO BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.
 - OLE CONTACT WIRE HEIGHT IS 4760mm AND CATENARY WIRE HEIGHT IS 6060mm, BASED ON DRAWING 134307-APB-DRG-EOH-100187 REV C06.
 - THIS BRIDGE IS LOCATED IN CU H01.
 - NETWORK RAIL TO OBTAIN LISTED BUILDING CONSENT PRIOR TO CONSTRUCTING THE PROPOSED FIXINGS.
 - LOOSE OR WEAK BRICKWORK MAY NEED REPOINTING. ALL REPAIRS TO BE IN ACCORDANCE WITH NETWORK RAIL STANDARD DETAIL DRAWINGS NR/CIV/SD/101 TO NR/CIV/SD/116 AND CLAUSES NR/L2/CV/140.
 - ALL STAINLESS STEEL THREADED BAR (INCLUDING ANCHORS), NUTS AND WASHERS TO BE GRADE A4/1.4529 STRENGTH CLASS 70 TO BS EN ISO 3506 STAINLESS STEEL FIXINGS.



B01	20.10.17	FOR FORM 003 REVIEW			OM	DN	RS
Rev	Date	Description of Revisions			Drawn	Chkd	Appr
Status						Suitability	
FOR FORM 003 REVIEW						S3	

NetworkRail

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GREAT WESTERN ELECTRIFICATION GRIP STAGES 4 - 8

TILEHURST ROAD EARTH WIRE STRUCTURAL FIXING GENERAL ARRANGEMENT

Designed	PHILIP BLAMPID	Signed		Date	20.10.17
Drawn	OLLIE M. MASON	Signed		Date	20.10.17
Checked	DAVE NEWBOLD	Signed		Date	20.10.17
Approved	ROGER SQUANCE	Signed		Date	20.10.17

Scale(s): As Shown
Route Section: 2
ELR & Mileage: BKE 37M 09ch
Alternative Reference: Sheet 1 of 1
Drawing Number: 134307-APB-DRG-ECV-143250
Revision: B01