

- KEY:**
- Existing Highway Gully and Connection
  - ⊠ Existing gully and connection to be abandoned. Existing connection to be utilised where annotated. Any resulting voids to be filled with approved in-situ concrete.
  - New gully pol, grate, frame and 150mm Ø connection to be provided in accordance with Kirklees Council Standard Details and Specification
- NOTES:**
- All works shall be carried out in accordance with Appendix 5/1 and 5/5 standard specification for highway works and standard details, unless otherwise instructed by the local inspecting officer.
  - All new gullies to utilise existing gully connections where possible.
  - Gully connection pipes shall be either flexible or rigid; the angle of connection to chambers and drain should be no greater than 60 degrees to the direction of flow.
  - Except where otherwise indicated gully gratings and frames are to be set at a level 6mm below finished carriageway level.
  - The minimum depth from the top of grating to the top of gully outlet is to be 750mm when connecting pipe is under carriageway and 600mm elsewhere.
  - All statutory undertakers equipment in footway and carriageway to be located and diverted before work commences.
  - Abandoned gullies to be back filled with class ST2 concrete in accordance with CL506 of MCHW. A stopper is to be provided to prevent concrete entering the pipe run. Existing cover and frame to be taken up and removed. New gully to connect into existing connection where possible.
  - A pedestrian route through the works shall be maintained at all times and clearly defined by suitable barriers and lights where necessary.
  - The contractor is obliged to obtain necessary road opening and/or sewer connection licences from the appropriate governing authority prior to commencement of the works.
  - One vertical joint per course of brick work shall be left open to allow drainage during construction.
  - All existing gullies, sewers, manholes and drain runs to be cleaned of detritus and high pressure water jetted prior to commencement of works in accordance with Clause 560AR of the specification.
  - All pipe runs under carriageway that do not achieve 1.2m of cover shall have a 150mm ST4 concrete surround. All gully connections to have a 150mm class ST4 concrete surround.
  - Anti-slip coating to be applied to all new and existing covers in the carriageway unless otherwise instructed by the inspecting officer.
  - Backfilling of trenches above the pipe cover material shall be undertaken using only Class 1 material complying with Table 6/1 and the 600 series of the Specification.
  - Existing manholes to be surveyed to determine correct location for the proposed gully connections and existing gully connection points plotted prior to completion of detailed design of drainage scheme.
  - For drainage details, refer to the latest revision of Kirklees Council standard details drawing HD/SD/05/01 to 22.
  - Double gullies to utilise a single 225mm dia pipe connection, to avoid the need for 2 connections, and mitigate the potential for weakening of carriageway material between areas of excavation.

NOTICE: THESE, NETWORK and the Traffic Signs are trademarks of Traffic, Inc. in the USA. LEEDS, the LEEDS logo, the M logo and M60 are registered trademarks or trademarks of Lilliput Corporation and its affiliates in the United States and/or other countries.

**Bryan G Hall Ltd. Registered in England & Wales Co No. 4104802**

This drawing is copyright and shall not be reproduced nor used for any other purpose without the written permission of the Bryan G Hall Ltd. This drawing must be read in conjunction with all other related drawings and documentation.

It is the contractor's responsibility to ensure full compliance with the Building Regulations. Do not scale from this drawing, use figured dimensions only. It is the contractor's responsibility to check and verify all dimensions on site. Any discrepancies to be reported immediately. **IF IN DOUBT ASK.**

Materials not in conformity with relevant British or European Standards/Codes of practice or materials known to be deleterious to health & safety must not be used or specified on this project.

Bryan G Hall Limited has not checked or verified, and shall therefore not be liable for any inaccuracies which may be attributable to any base plan(s) reports, data or information provided by the client, or purchased by the consultant on the client's behalf, that may have been utilised within this drawing.

Bryan G Hall Limited shall not be liable for the use of this or any associated document, for any purpose, by any person other than that for which they were provided.

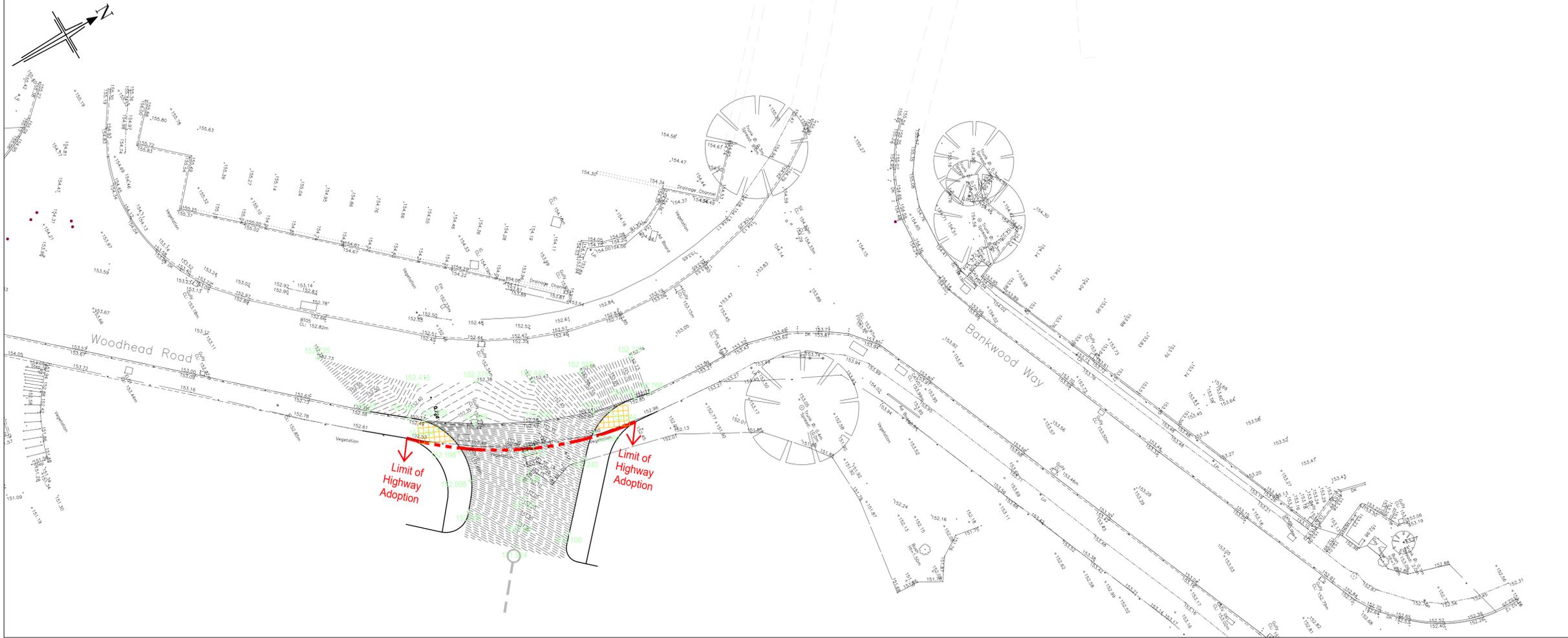
It remains the client's and/or its appointed contractor's responsibility to check for any discrepancies. Any anomalies discovered must be reported immediately to Bryan G Hall Limited for verification.

The locations of utilities apparatus, if shown, have been reproduced from plans supplied to Bryan G Hall Limited. Although care has been taken when duplicating this information, these locations are approximate only. No guarantee can be given by Bryan G Hall Limited for their accuracy. It is the client's or its appointed agent/contractor's responsibility to verify the exact locations on site by appropriate means prior to mechanical excavation.

**THE SITE LAYOUT SHOWN ON THIS PLAN IS TAKEN FROM SMR ARCHITECTS PROPOSED SITE LAYOUT REF: 7319-SMR-00-ZZ-DR-A-8014-S3-P20**

**THE TOPOGRAPHICAL SURVEY SHOWN ON THIS PLAN IS TAKEN FROM TECHNICS UTILITY AND TOPOGRAPHICAL SURVEY REF: 5038/1120-01A DATED 13 NOVEMBER 2020**

RESIDUAL HAZARDS - DRAINAGE	
<b>High</b>	THE DESIGNERS WOULD LIKE TO DRAW ATTENTION TO KEY RESIDUAL CONSTRUCTION HEALTH & SAFETY HAZARDS THAT MAY NOT BE ELIMINATED FROM THE WORKS BY THE DESIGN PROCESS. THESE HAZARDS ARE IDENTIFIED BELOW & ON THE DRAWING
<b>Med</b>	
<b>Low</b>	
<b>A</b>	LIVE SERVICES - ENSURE WORKS ARE PROTECTED BY THE APPROPRIATE MEANS AND SIGNED CORRECTLY. OPERATIVES TO HAND DIG WHERE SERVICES ARE KNOWN TO BE PRESENT.
<b>B</b>	CONTAMINATION - IF ANY CONTAMINATED MATERIAL IS FOUND IT SHALL BE REMOVED AND PLACED IN AN APPROPRIATE AREA AND BARRIRED OFF, UNTIL SUCH TIME AS IT CAN BE TAKEN AWAY TO A REGISTERED TIP.
ANY PERSONNEL UNDERTAKING CONSTRUCTION WORKS ASSOCIATED WITH THE DETAILS SHOWN ON THIS DRAWING SHOULD BE FULLY BRIEFED BY THE PRINCIPLE CONTRACTOR AND SHOULD BE MADE AWARE AND HAVE SIGHT OF THE FOLLOWING DOCUMENTS:	
- THE DEVELOPMENT CONSTRUCTION PHASE HEALTH & SAFETY PLAN	
- THE CONTRACTORS CONSTRUCTION METHOD STATEMENTS	
- ANY REQUIREMENT FOR PERMIT TO WORK ASSOCIATED WITH ANY ACTIVITY	



Rev:	Date:	Amendment:	DRN	CHK	APR
------	-------	------------	-----	-----	-----

**BRYAN G HALL**

CONSULTING CIVIL & TRANSPORTATION PLANNING ENGINEERS

<b>LEEDS</b> T 0113 246 1555	<b>NEWCASTLE</b> T 0191 249 5100	<b>LONDON</b> T 0203 5532336
Suite E15   Josephs Well Hanover Walk   LEEDS   LS3 1AB		
W <a href="http://www.bryanghall.co.uk">www.bryanghall.co.uk</a> E <a href="mailto:transportleeds@bryanghall.co.uk">transportleeds@bryanghall.co.uk</a>		

Client: Lidl

Status:

Scale: 1:200  
Size: A1 - 841 x 594  
Drawn: MM  
Chkd: BR  
Appvd: JP

Project: Proposed Store, Woodhead Road, Birstall, Kirklees

Title: S184 General Arrangement Highway Drainage and Proposed Levels

Drawing No: 23/435/S184/100/001  
Job No: 23-435  
Revision: 05.05.21  
Date:

Copyright Reserved Bryan G Hall Ltd.