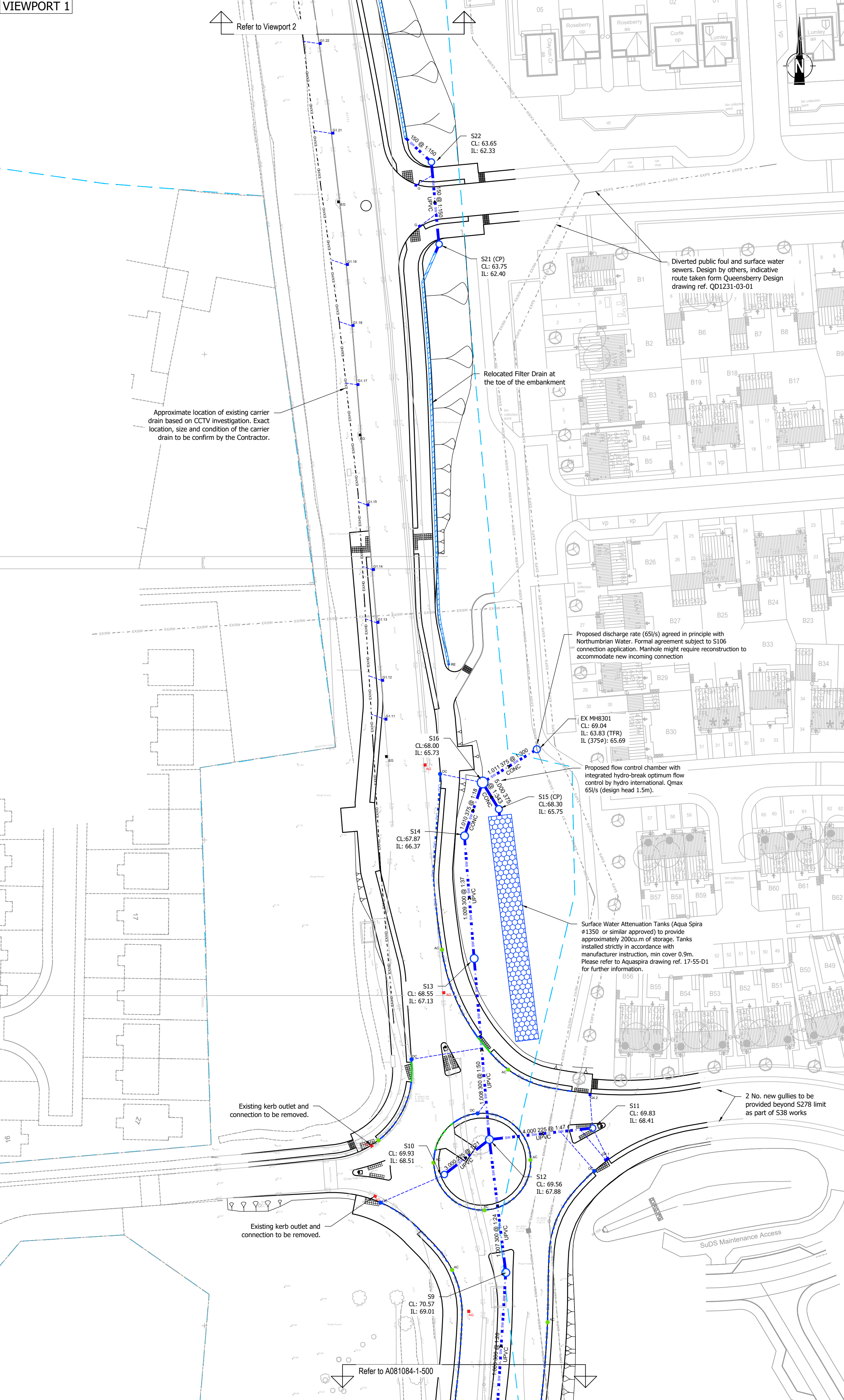


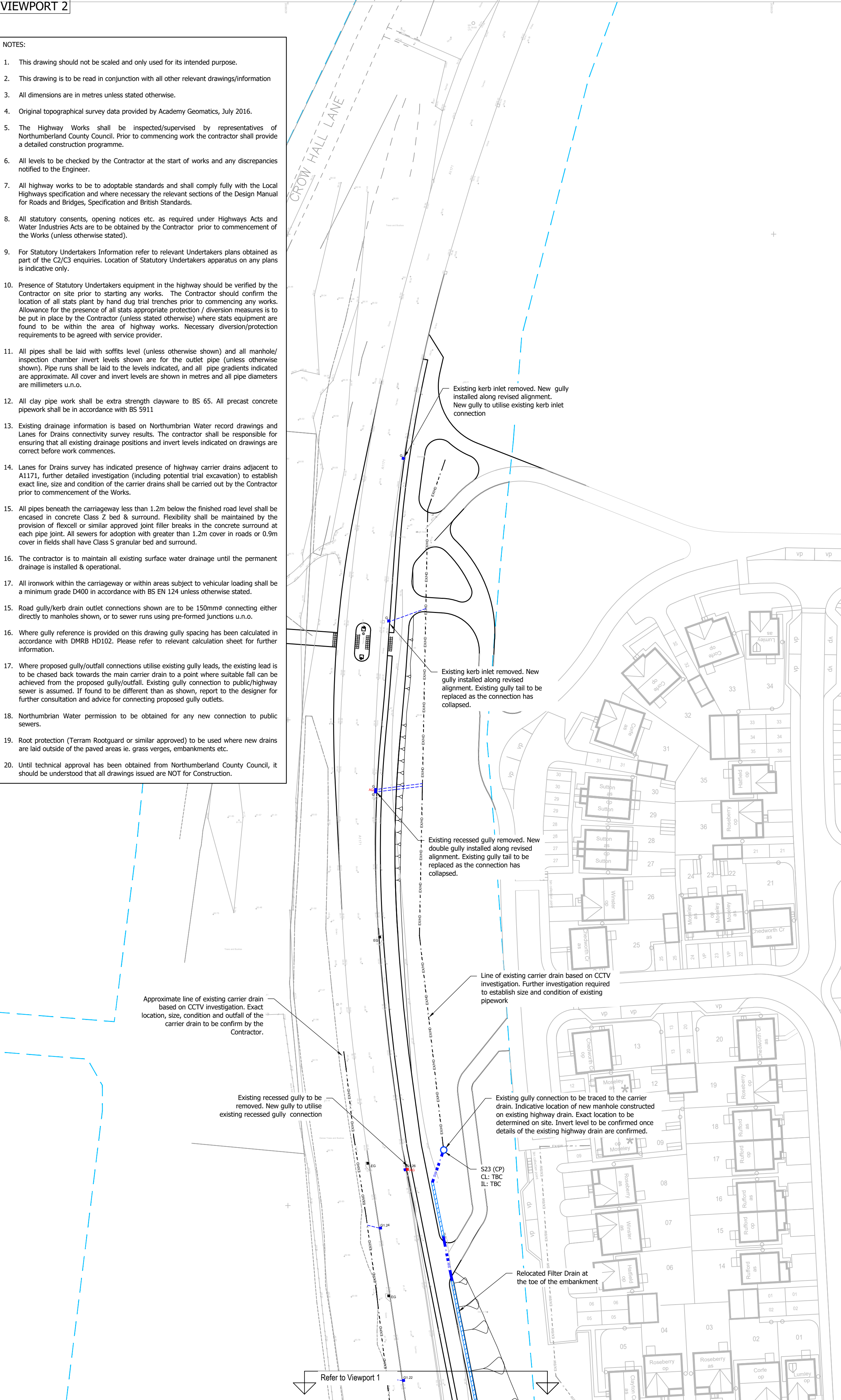
FILENAME : J:\2016\A081084-1 CENTREPORT, CRAWLINGTON\CAD\WVG DRAWINGS\A081084-1-500K 501L.DWG | PLOTTED BY : BARAN, LUKASZ | PLOTTED DATE : 06 July 2021 16:28:33

VIEWPORT 1

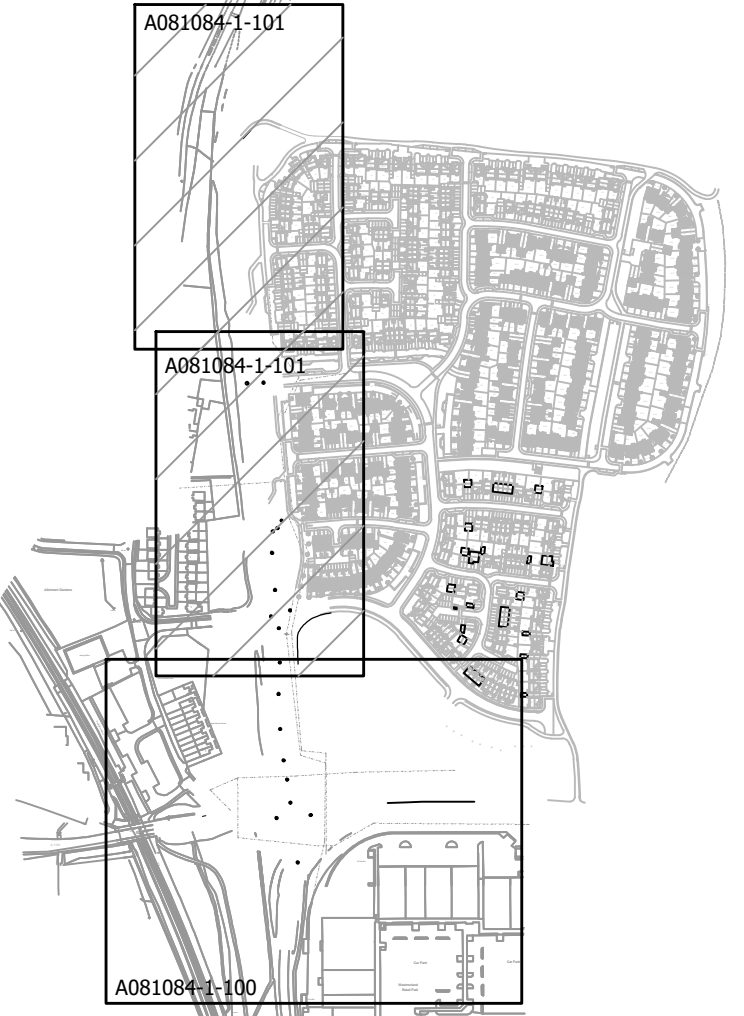


VIEWPORT 2

- NOTES:
- This drawing should not be scaled and only used for its intended purpose.
 - This drawing is to be read in conjunction with all other relevant drawings/information
 - All dimensions are in metres unless stated otherwise.
 - Original topographical survey data provided by Academy Geomatics, July 2016.
 - The Highway Works shall be inspected/supervised by representatives of Northumberland County Council. Prior to commencing work the contractor shall provide a detailed construction programme.
 - All levels to be checked by the Contractor at the start of works and any discrepancies notified to the Engineer.
 - All highway works to be to adoptable standards and shall comply fully with the Local Highways specification and where necessary the relevant sections of the Design Manual for Roads and Bridges, Specification and British Standards.
 - All statutory consents, opening notices etc. as required under Highways Acts and Water Industries Acts are to be obtained by the Contractor prior to commencement of the Works (unless otherwise stated).
 - For Statutory Undertakers Information refer to relevant Undertakers plans obtained as part of the C2/C3 enquiries. Location of Statutory Undertakers apparatus on any plans is indicative only.
 - Presence of Statutory Undertakers equipment in the highway should be verified by the Contractor on site prior to starting any works. The Contractor should confirm the location of all stats plant by hand dug trial trenches prior to commencing any works. Allowance for the presence of all stats appropriate protection / diversion measures is to be put in place by the Contractor (unless stated otherwise) where stats equipment are found to be within the area of highway works. Necessary diversion/protection requirements to be agreed with service provider.
 - All pipes shall be laid with soffits level (unless otherwise shown) and all manhole/inspection chamber invert levels shown are for the outlet pipe (unless otherwise shown). Pipe runs shall be laid to the levels indicated, and all pipe gradients indicated are approximate. All cover and invert levels are shown in metres and all pipe diameters are millimeters u.n.o.
 - All clay pipe work shall be extra strength clayware to BS 65. All precast concrete pipework shall be in accordance with BS 5911
 - Existing drainage information is based on Northumbrian Water record drawings and Lanes for Drains connectivity survey results. The contractor shall be responsible for ensuring that all existing drainage positions and invert levels indicated on drawings are correct before work commences.
 - Lanes for Drains survey has indicated presence of highway carrier drains adjacent to A1171, further detailed investigation (including potential trial excavation) to establish exact line, size and condition of the carrier drains shall be carried out by the Contractor prior to commencement of the Works.
 - All pipes beneath the carriageway less than 1.2m below the finished road level shall be encased in concrete Class Z bed & surround. Flexibility shall be maintained by the provision of flexcell or similar approved joint filler breaks in the concrete surround at each pipe joint. All sewers for adoption with greater than 1.2m cover in roads or 0.9m cover in fields shall have Class 5 granular bed and surround.
 - The contractor is to maintain all existing surface water drainage until the permanent drainage is installed & operational.
 - All ironwork within the carriageway or within areas subject to vehicular loading shall be a minimum grade D400 in accordance with BS EN 124 unless otherwise stated.
 - Road gully/kerb drain outlet connections shown are to be 150mm² connecting either directly to manholes shown, or to sewer runs using pre-formed junctions u.n.o.
 - Where gully reference is provided on this drawing gully spacing has been calculated in accordance with DMRB HD102. Please refer to relevant calculation sheet for further information.
 - Where proposed gully/outfall connections utilise existing gully leads, the existing lead is to be chased back towards the main carrier drain to a point where suitable fall can be achieved from the proposed gully/outfall. Existing gully connection to public/highway sewer is assumed. If found to be different than as shown, report to the designer for further consultation and advice for connecting proposed gully outlets.
 - Northumbrian Water permission to be obtained for any new connection to public sewers.
 - Root protection (Terram Rootguard or similar approved) to be used where new drains are laid outside of the paved areas i.e. grass verges, embankments etc.
 - Until technical approval has been obtained from Northumberland County Council, it should be understood that all drawings issued are NOT for Construction.



DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS



- KEY
- G Proposed road gully and 150mm connection
 - AG Gully/Kerb Inlet to be removed and connection abandoned unless otherwise noted on this drawing
 - EG Existing gully/kerb inlet to remain
 - RE Proposed rodding eye
 - SK Proposed surface water highway drain and manhole
 - ACO Proposed ACO Kerb Drain, access cover & outlet. Refer to dwg ref.A081084-1-510 for information regarding ACO units sizing
 - Proposed ACO Kerb Drain flush centre stone units (with transition units), size to match adjacent units
 - Proposed ACO Kerb 405 Drain bus stop kerb unit with 180mm upstand. Bus stop transition units to be used where kerb face alters
 - Aqua Spira (or similar approved) Surface Water Attenuation Tanks.
 - Proposed filter drain (1504)
 - EXIST Existing highway drain (location taken from Lanes for Drains Survey)
 - EXIST Existing FW sewer (location taken from topographical survey & NW records)
 - EXIST Existing SW sewer (location taken from topographical survey & NW records)
 - EXIST Existing Combined Water sewer (location taken from topographical survey & NW records)
 - Approximate extent of adopted highway in the vicinity of the highway works (based on Northumberland County Council plan ref. Highway Search Centre Point/Station Road provided on 07/11/16 and subsequent plan provided on 15/11/16)

RESIDUAL DESIGN HAZARDS

Underground services present in the works area!

The Contractor is advised of the presence of MV cables and gas mains in area of works. Trial holes to be undertaken prior to any construction work to establish exact route of the cables and confirm cover depth

FOR APPROVAL

L	Design amended to take into account Bemical/Bellway site development	JG	LB	LB	06.07.21
K	Following NCC Comments	IW	LB	LB	07.04.20
J	Following NCC Comments	IW	LB	LB	10.03.20
REV	DESCRIPTION	BY	CHK	APP	DATE

Client

LEEBELL DEVELOPMENTS LTD

QUAY WEST at MediaCity UK
TRAFFORD WHARF ROAD
TRAFFORD PARK
MANCHESTER
M17 1HH
TEL: +44 (0)161 872 3223
FAX: +44 (0)161 872 3193
e-mail: manchester@wyg.com



Project:

CENTREPORT, CRAWLINGTON

Drawing Title:

S278 WORKS
DRAINAGE PLAN
SHEET 2 OF 2

Scale @	A1	Drawn	Date	Checked	Date	Approved	Date
1:500	LB	26/06/17	LB	29/06/17	MD	30/06/17	
Project No.	Office	Type	Drawing No.	Revision			
A081084-1	27	C	A081084-1-501	L			

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