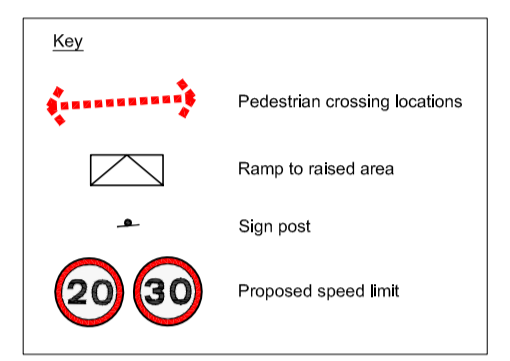


- General Notes:**
- DO NOT USE THIS DRAWING IN ISOLATION. This drawing has been prepared as part of a scheme and must therefore be read in conjunction with all other drawings. Any discrepancies must be reported to the engineer prior to commencing work.
 - The party information is used to prepare the engineering design (structural, architectural, landscape, ground investigation, existing utilities records, and landscape design items). The engineering design must therefore be read in conjunction with all other party information prior to commencing work. Generatory Design Ltd are not responsible for any third party information or data.
 - House type working drawings are to be used in conjunction with the plot setting out drawings.
 - Drainage details will remain valid only until full technical approval is received from local authority and sewerage undertaker. Works commenced prior to technical approval are done at the risk and may be subject to change.
 - The contractor is expected to prepare appropriate construction method statements for all aspects of proposed work. The method statements are to be approved by the engineer.
 - Land drainage is not permitted to discharge into the public sewer network. Any need for land drainage should be assessed for the ground water and landscaper design items. The engineering design must therefore be read in conjunction with all other party information prior to commencing work. Generatory Design Ltd are not responsible for any third party information or data.
 - The contractor is expected to cross check all drainage events prior to commencing work. This may include completion of flat levels if level books have been interrupted.
- Highways:**
- All highway works to be carried out in accordance with the current local authority design guide and specification.
 - All excavations below proposed and existing highways to be backfilled with granular Type 1 sub-base and well compacted layers not exceeding 100mm, unless otherwise agreed.
 - Highway authority to be notified by the contractor prior to the commencement of works.
- At-Grade Drainage:**
- All at-Grade drainage works to be in accordance with the water authorities publication - "Manual For Adoption BS 5388" issued as the approved drainage.
 - Precast concrete manhole rings to comply with the relevant provisions of BS5911 - Part 205.
 - All backfills to be Class B engineering complying with the relevant provisions of BS 3801. Concrete blocks prepared to the specifications for the same as Class B engineering blocks. Please seek approval from relevant water authority before using.
 - Manhole covers and frames shall comply with the relevant provisions of BS EN 124 and be of non-slippery, non-slippery design.
 - Ladders that are required in Type A manholes are to comply with "Timbers For Adoption BS 5388".
 - Concrete must be either C20 substrate resistant Portland cement with high strength concrete tested to the handling, or C20 substrate Portland cement.
 - 150mm Concrete curbs to be required around areas where the depth from finished surface to surface of pipe is less than 100mm. This may be reduced to 50mm where open space.
 - The location of existing drainage that is within close proximity to the proposed site works, which is not to be disturbed, should be confirmed by the contractor and reported to the developer to ensure it corresponds to that shown on the engineering layout and that no proposed works are affected.
- The position, size and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies must be reported to the engineer immediately.
- The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the local sewerage undertaker. The contractor is expected to notify the relevant service authorities prior to commencement of work.
- Existing Services:**
- Any existing services which may be affected by the proposed works should be located by means of a hand dig to clear lines with the relevant service authorities. The contractor shall inform the developer of any services that may affect the proposed design. Contractors to notify relevant service authorities prior to commencement of work.
- As Constructed Information:**
- The contractor responsible to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract:
 - Final as-built drawings of all at-grade manholes.
 - Final as-built drawings of all at-grade manholes.
 - Final as-built drawings and connections.
 - Position and depth of service ducts for water, gas, electric, BT, cable and street lighting, setting out and number of ducts.



Rev C: Drawing amended as per latest planning layout, KJH 22 09 15
 Rev B: Layout updated as per architect changes, KJH 15 09 15
 Rev A: Notes added along Luke's Lane at Client request. 20mph limits removed from Luke's Lane. Egress from site access's now marked as 30mph, KJH 03 09 15

PRELIMINARY

Title: **Barratt Homes & Taylor Wimpey Luke's Lane, Monkton Phase 2 Road Signing and Lining**

Scale: 1:500@A0 Date: August 2015

Drawn by: KJH email: ken.horn@queensberrydesign.co.uk

Checked by: QD1081-20-01 Revision: C

QUEENSBERRY DESIGN
 ENGINEERING & ARCHITECTURAL CONSULTANTS
 NORTH EAST OFFICE: NORTH EAST OFFICE, STAMINGTON NORTH, NEWCASTLE, NE4 6EP. T: 0191 77844
 NORTH WEST & YORKSHIRE OFFICE: 25 St Martin's Lane, York, YO1 1ET. T: 01904 200022
 www.queensberrydesign.co.uk