



- Key**
- Beamy Kerb - See design document DR10635 for info
 - Dropped Beamy Kerb
 - Beamy outfall point
 - Beamy Access Cover
 - Beamy Access Cover & End Cap
 - Existing road gully to remain
 - Existing road gully to be removed
 - Proposed road gully
 - Existing highway drain to remain
 - Assumed route of highway drain
 - Existing drain to be grouted up or removed
 - Proposed gully lead (150mm ϕ Type Z)
 - Proposed carrier drain (150mm ϕ Type S)
 - Proposed SW MH (1200mm ϕ HMS/05/12)

- Drainage Specification**
1. All drainage works shall be carried out in accordance with the current water services association "Sewers for Adoption" and adopting water authority/Severage agency requirements and specifications.
 2. Contractor to establish position, size & depth of all existing sewers, services prior to commencement on site.
 3. The contractor shall allow for the protection, temporary and permanent support, and temporary and permanent diversion works, as necessary to all existing services.
 4. The contractor shall allow for keeping sewer trenches and excavations as dry as practicable by pumping from temporary sumps and dewatering as appropriate. The point and method of discharge is to be agreed with the drainage authority.
 5. All plastic surface water pipes to be twin wall EBA approved.
 6. Inlets and precast concrete units shall have sulphate resisting Portland cement to BS 4027, unless agreed otherwise.
 7. Precast concrete products shall comply with the relevant provisions of BS 5911 and to be kilnmarked. Concrete pipes to be Class II unless noted otherwise.
 8. Manhole covers and frames shall comply with the relevant provisions of BS EN124; have minimum 675 x 675 clear openings with 150mm deep frames unless specified. Manhole covers and frames to be of a non-rocking design without cushion inserts and be kilnmarked. Load class D400 in vehicular trafficked areas and road class B125 in footways and pedestrian areas.
 9. Gully grates and frames shall comply with the relevant provisions of BS EN124 and be of a non-rocking design with captive hinge access and be kilnmarked. Load class B400.
 10. Class 2 bedding detail shall be provided where cover to the pipe barrel is less than 1.2m in vehicular trafficked areas and 0.9m elsewhere, to all road gully connections where the depth doesn't exceed 1.2m and within areas of deep rooting vegetation.
 11. Where class 2 trench bedding detail is used, the concrete bed and surround shall be discontinued at each pipe joint over the full cross section by means of a shaped compressible filler.
 12. Selected backfill material shall consist of uniform material free from stones larger than 40mm, clay lumps larger than 75mm, tree roots, organic matter and frozen soil. Selected backfill material to be placed in layers not exceeding 225mm, each layer compacted to form a stable trench backfill.
 13. General Backfill material to be free from stones larger than 40mm. General backfill material to be placed in layers not exceeding 150mm thickness and each layer compacted by hand. No mechanical compaction of fill material shall be permitted within 300mm above the crown/barrel of the pipe.
 14. Backfilling and reinstatement to trenches in public highways shall be to Detail A.
 15. Backfill to drainage trenches in hard paved areas shall be G.S.B Type 1.
 16. All road gullies are to be trapped gullies. (formed per gully detail)
 17. All gully leads to be 150mm diameter.
 18. All redundant existing drainage to be grubbed up or grouted, any existing live drainage should be reported to the engineer and reconstructed.
 19. All road gullies & leads to be cleared of debris upon completion of works.
 20. The contractor must ensure that any of the existing drainage which is live is kept clear of debris and should allow for jetting through the new & existing drainage upon completion.

- Health & Safety**
1. Contractor should be aware of general construction risks to prevent slips, trips & Falls and take necessary precautions without special instruction.
 2. Contractor to provide trench supports as appropriate and ensure that plant remains a safe distance from trenches prior to installing drainage.
 3. The time that excavations are open on site should be to a minimum and all trenches should be surrounded by a barrier in accordance with H50150.
 4. Connections to existing sewers to be made by MML Approved contractor only.
 5. Contractor to conduct toolbox talks to make operatives aware of associated dangers to health such as Leptospirosis (Weils Disease) and recommend precautions. Adequate welfare facilities and protective clothing to be provided as required.
 6. Unfinished manholes must be covered with load bearing materials and surrounded with barrier.

Rev/Amnt	Date	Initial	Chk'd	Details

INFORMATION

Durham County Council
 CORPORATE DIRECTOR
 REGENERATION & LOCAL SERVICES
 COUNTY HALL
 DURHAM
 DH1 5 UD
 Tel: 03000 261000 www.Durham.gov.uk

Project
 A167 CENTRAL AVENUE
 NEWTON AYCLIFFE

Drawing
 DRAINAGE LAYOUT
 SHEET 2 OF 2

Drawn : DT	Date: 08.02.2022
Designed : DT	Date: 08.02.2022
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Revision PO2
 Newton Aycliffe
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 DO NOT SCALE FROM DRAWING

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