**Development Control Detailed Design Checklist**

| **Item** | **Description** | **Submitted**  | **Comments** |
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|  | **Calculations / Reports** |  |  |
| 1 | Hydraulic calculations to support any proposed drainage design, where applicable. Details of contributing catchment areas, crossfalls/gradients, existing drainage system to be connected into including depths, pipe sizes etc. Details of gully design calculations. SUDs info (area wide impact where necessary). | Yes |  |
| 2 | Street Lighting calculations | Yes |  |
| 3 | Traffic flows and speeds for existing, construction phase and proposed design. Calculations and analysis for proposed junctions using the current accepted software e.g. ARCADY, PICADY, OSCADY, TRANSYT, SATURN, VISSIM | Yes |  |
| 4 | Vehicle Restraint Systems assessment | Yes |  |
| 5 | Ground Investigation Report, including soakaway tests, CBRs, etc. | Yes |  |
| 6 | Departures / Relaxations from Standard | Yes |  |
| 7 | Road Safety Audit, Design Response Report  | Yes |  |
| 8 | CCTV Survey of Existing Drainage | Yes |  |
| 9 | CDM Risk Register | Yes |  |
| 10 | S38 Agreement | Yes |  |
| 11 | S278 Agreement | Yes |  |
|  |  |  |  |
|  | **Drawings** |  |  |
|  | A full set of technical drawings at 1:500 scale (or larger) to enable the horizontal and vertical design to be checked. |  |  |
|  | *Highways* |  |  |
| 1 | Existing Layout including levels and highway boundary | Yes |  |
| 2 | Proposed Site General Arrangement including existing and proposed highway boundary | Yes |  |
| 3 | Proposed Levels at 5m centres along the centre line & channels and FFLs of any houses/garages/outbuildings | Yes |  |
| 4 | Proposed contours at maximum 50mm intervals, gradients & direction of fall. Note interval can be changed to suit each site. Gully locations to also be shown. | Yes |  |
| 5 | Cross Sections at 10m centres across the public highway | Yes |  |
| 6 | Longitudinal Sections of channel and centre line with geometric information (radii, lengths, alignment, etc.) | Yes |  |
| 7 | Visibility Splays (forward, junction, traffic signal, signs, roundabouts, etc.) | Yes |  |
| 8 | Vehicle Swept Path of all design vehicles to include as a minimum the following vehicles: Articulated Lorry – 16.48m in length 2.55m in width, Pantechnicon – 9.57m in length 2.52m in width, Large Family Car – 4.89m in length 1.94m in width, Single Decker Bus – 12.00m in length 2.55m in width, Large Refuse Vehicle – 11.30m in length, 2.53m in width, Fire Tender 7.50m in length, 2.45m width.Vehicle tracking speeds are to be annotated next to each vehicle manoeuvre. | Yes |  |
| 9 | Road Geometry General Arrangement (radii, lane widths, footway widths, dimensions, etc.) | Yes |  |
| 10 | Site Clearance General Arrangement | Yes |  |
| 11 | Fencing General Arrangement & Details | Yes |  |
| 12 | Vehicle Restraint Systems & Pedestrian Guardrail General Arrangement & Schedule | Yes |  |
| 13 | Earthworks General Arrangement & Details | Yes |  |
| 14 | Pavement General Arrangement & Details | Yes |  |
| 15 | Kerbs General Arrangement & Details | Yes |  |
| 16 | Footway/Service Strip General Arrangement & Details | Yes |  |
| 17 | Road Markings General Arrangement & Details | Yes |  |
| 18 | Signs General Arrangement, Details & Schedule | Yes |  |
| 19 | Street Lighting General Arrangement & Details | Yes |  |
| 20 | Street Lighting Schedule (Column type/height, lantern type, special requirements, etc.) | Yes |  |
| 21 | Electric Vehicle Charge Points General Arrangement | Yes |  |
| 22 | Landscaping General Arrangement | Yes |  |
| 23 | Proposed Parking General Arrangement to include driveways, garages, on-street, communal parking, key dimensions (widths, lengths, etc.) | Yes |  |
| 24 | General Arrangement and Details of non-standard structures | Yes | Structural calculations, maintenance / inspection proposals required. |
|  | *Drainage & Utilities* |  |  |
| 1 | Existing Public Sewers General Arrangement | Yes |  |
| 2 | Proposed SW General Arrangement (include contours) & Longitudinal Sections | Yes |  |
| 3 | Proposed FW General Arrangement & Longitudinal Sections | Yes |  |
| 4 | SW Manhole Schedule (pipe diameter/types/bedding & surround, MH dimensions/type/plan/ILs, etc.) | Yes |  |
| 5 | FW Manhole Schedule (pipe diameter/types/bedding & surround, MH dimensions/type/plan/ILs, etc.) | Yes |  |
| 6 | SUDs General Arrangement & Details | Yes |  |
| 7 | Drainage Undertakers s104 Technical Approval Letter/Statement | Yes |  |
| 8 | Existing Statutory Undertakers Plant and Apparatus General Arrangement | Yes |  |
| 9 | Proposed Statutory Undertakers Plant and Apparatus General Arrangement | Yes |  |