CITY OF WOLVERHAMPTON COUNCIL

Highways and Transportation

Technical Guidance Note

Part 6: Working on existing highways - Section 278 and Section 184 procedures Section 50 Road Opening License

- <u>Section WEH1: Introduction</u>
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Section WEH1: Introduction

General

- 6.1 This part details our requirements for the construction of works on the existing public highway under Section 278 of the Highways Act. It covers what we will require from you in terms of:
 - technical details, including safety audits and drawings, to enable us to approve your proposed highway works;
 - completing a Section 278 legal agreement, to provide for the construction of your highway works
 - you constructing and maintaining the highway works before we take over their maintenance; and
 - our fees and other payments relating to the construction and maintenance of the road.

Or, you may be able to carry out works in the highway under S184 of the Highways Act, which deals with constructing new vehicle crossings over footways and verges. If you think that this might be more appropriate for your works, please contact us prior to proceeding with preparing your proposals. Our Section 278 procedures are shown in Figure WEH1.

6.2 You should consult both us and the planning authority at an early stage of preparing your development proposals, especially if the proposed highway works are extensive and have potentially significant environmental impacts, for example removal of trees and hedges. This will give an opportunity to resolve any potential problems relating to the works before you submit any planning application.

Notes

• Wherever 'the Act' is mentioned in this Part, it refers to the Highways Act 1980 unless otherwise stated.

About Section 278 of the Act

- 6.3 Where development requires works to be carried out on the existing highway, you will need to complete an agreement with us under Section 278 of the Act.
- 6.4 Section 278(1) of the Act (as amended by the New Roads and Street Works Act 1991) says: "A highway authority may, if they are satisfied it will be of benefit to the public, enter into an agreement with any person-
 - (a) for the execution by the authority of any works which the authority are or may be authorised to execute, or
 - (b) for the execution by the authority of such works incorporating particular modifications, additions or features, or at a particular time or in a particular manner, on terms that that person pays the whole or such part of the cost of the works as may be specified or determined in accordance with the agreement."

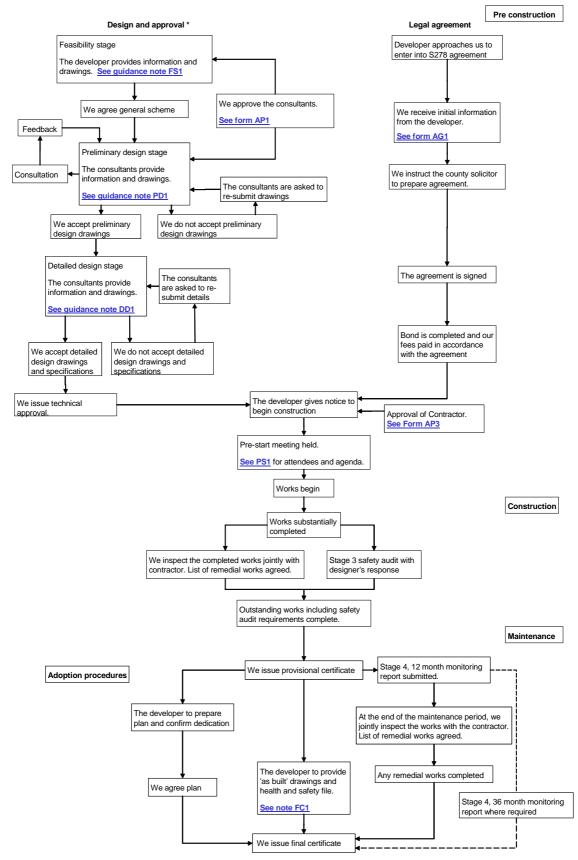


Figure WEH1: Section 278 Procedures

^{*} Note on Design and Approval: If you want us to carry out design and approval work before you have completed the Section 278 legal agreement with us, we will normally ask you for an 'abortive costs' letter. In this letter, you must agree to pay our costs if you do not proceed

with your development proposals for any reason. We will not normally carry out design checking and approval unless we have received this letter or the Section 278 agreement is complete.

- 6.5 In Wolverhampton, we normally use this section of the Act to allow you, the developer, to employ a contractor and for that contractor to work on the existing public highway in the same way as if we, the highway authority, were carrying out the works instead. You are normally responsible for all aspects of the works on the public highway, from their design, through supervising construction and ensuring that the works are fully and finally completed to our satisfaction.
- 6.6 Section 278(3) of the Act, says: "The agreement may also provide for the making to the highway authority of payments in respect of the maintenance of the works to which the agreement relates and may contain such incidental and consequential provisions as appear to the highway authority to be necessary or expedient for the purposes of the works."
- 6.7 This section of the Act entitles us to seek expenses for future maintenance and we intend to do this through commuted sums. This will allow us greater flexibility to adopt non-standard layouts and materials without placing undue burdens on our maintenance budget or Council Tax payers. However, even if you offer a commuted sum payment, we may still not approve your proposals and allow you to work on the highway if we consider them to be inappropriate or unacceptable on highway-safety grounds. (Please refer to paragraph 6.65 onwards for further details on commuted sums.)
- 6.8 Section 278 agreements are often used together with an agreement under Section 106 of the Town and Country Planning Act 1990. Such agreements, between a planning authority, us (where highway works are covered) and a landowner and developer, are used to regulate developments where using planning conditions would not be appropriate. Granting planning consent depends on the landowner or developer entering into a Section 106 agreement. Section 106 agreements may cover a number of matters such as securing off-site highway works, landscaping, phasing the development, paying sums of money and so on.
- 6.9 Both Section 278 and Section 106 agreements operate in the same way in relation to highway works. They follow the procedures involved in the approximate order they occur from initial consultations through to final completion of the highway works.

Section WEH2: Completing a Section 278 agreement and providing surety

The Section 278 agreement

- 6.10 Before you can enter into a Section 278 agreement you must normally obtain full planning permission for the development from the planning authority. This must include approval of any reserved matters relating to the highway works.
 - Note: If you want to start the Section 278 procedures before you receive planning consent, we will only consider this if you agree to refund all of our costs if planning consent is not given or the development does not proceed for any other reason.
- 6.11 Our Section 278 agreements are in a standard format. However, at times it will be necessary to make amendments, for example to allow for specific structures and commuted sums.
- 6.12 You will need to supply certain information before our solicitors can begin preparing the agreement. The information required is listed on guide AG1. This will include, where appropriate, a letter confirming that you will be responsible for all our costs if planning permission is not given or the development does not proceed for any other reason.
- 6.13 Once we have received the correct information, we will instruct our solicitors to prepare the agreement. You will be charged a fee for us preparing the agreement. Please see Section WEH7.

The Construction (Design and Management) Regulations

6.14 Before we sign the Section 278 agreement, you must provide us with written proof that you have informed the Health and Safety Executive in writing that you are appointed client for the works for the purposes of the 'Construction (Design and Management) Regulations' (CDM Regulations). We will **not** sign the agreement until you have provided this proof.

(**Note:** As defined in the CDM Regulations, "client means any person for whom a project is carried out, whether it is carried out by another person or is carried out in-house." The regulations go on to state: "Where the person appointed [as client for the works] makes a declaration [to the HSE that he will act as client for the works for the purposes of these regulations], from the date of the receipt of the declaration by the [HSE]), such requirements and prohibitions as are imposed by these Regulations upon a client shall apply to the person so appointed (as long as he remains as such) as if he were the only client in respect of that project." In other words, as client for the works, you will be responsible for meeting the Regulations and making sure that the works are designed and constructed in line with the Regulation. This is not our responsibility.)

Surety

6.15 We must be protected against the risk of unforeseen expenditure if you leave the highway works unfinished for any reason. So, we will calculate the cost of the highway works, including any highway structures, highway drainage, works to

service providers equipment (for example, gas, water, cable TV) and commuted sums (where applicable) and you must provide us with an appropriate surety equal to the cost that we calculate. This may be in the form of:

- a bond with a recognised financial institution; or
- the equivalent sum of monies lodged with us.
- 6.16 For information on the other fees we charge for highway works covered by Section 278 agreements and on commuted sums, please see Section WEH7.

Section WEH3: Designing your highway works

General requirements

- 6.17 The works should normally be designed in line with the standards set out in this document, including Part 3, Part 4 and our Specification. Our standard conditions applying to highway works for new development provides additional advice, for example on utility equipment (such as gas, water, electricity, and so on).
- 6.18 It is in everyone's interest that the highway works are designed by reputable chartered consulting engineers with experience in designing highway works. So, we must approve the consulting engineers who you choose to design the highway works. At the appropriate time, you must give us details of the consultants you want to use.
- 6.19 We will require safety audits for all highway works covered by Section 278 agreements. They must be carried out by an accredited safety audit team that is independent from the designers. You will be responsible for commissioning and paying for all safety audits. Please see appendix D for further details on safety audits.
- 6.20 You must comply with all aspects of the Construction (Design and Management) Regulations 1994 and indemnify us (protect us from legal responsibility) against all claims, liabilities and actions if you fail to do so.
- 6.21 **Feasibility stage:** You should agree the need for any off-site highway works and their general nature with us before you submit a planning application. We will need to be satisfied that any proposed highway works:
 - will off-set the highways and transportation impacts of your development; and
 - are possible within the land constraints of the development;
 - before we recommend to the planning authority that the development is acceptable.
- 6.22 You will be required to supply key information at the feasibility stage so we can be satisfied that the proposed highway works are possible. You can find a list of the information required in guide FS1.
- 6.23 **The preliminary design stage:** When we have agreed the general scheme layout at the feasibility stage, we will need your approved consultants to submit a preliminary design. This should minimise the need for a lot of design changes at the later, detailed design stage. You can find a list of the required documentation we need on guide PD1. Once we have received confirmation that you will be responsible for all the costs if planning permission is not given or your development does not proceed for any other reason, we will check your design.
- 6.24 At this stage, you or your consultants should talk to other parties who could have an influence on the design of the works, for example utility providers (for example gas, water, cable TV) or the Environment Agency. Working with us, you or your consultants should also carry out consultations with the parish council, the local county councillor and nearby residents. You should then analyse any comments you receive and forward them to us (together with your response) for a decision.

- 6.25 In the case of traffic-calming schemes, we will carry out consultations with interested parties in accordance with paragraph 6.31. After we have received and analysed comments, we will forward our decision to you. You must incorporate any changes to the design we ask for as a result of the consultations.
- 6.26 **The detailed design stage:** When we have approved the preliminary design, we will need your consultants to submit the detailed design. You can find a full list of the requirements on guide DD1.
- 6.27 At this stage we will:
 - serve the appropriate notices to the utility companies under the New Roads and Streetworks Act;
 - carry out noise assessments if appropriate; and
 - design the streetlighting.
- 6.28 When we have accepted the detailed design, we will issue conditional approval.
- 6.29 The agreement will state that we must approve the detailed design before any construction work starts.

Traffic regulation orders

6.30 Where a development requires changes to an existing traffic regulation order (TRO) or a new order is required, you will normally be required to pay all costs associated with this, including all consultation and legal costs. TROs are subject to statutory procedures and *consultations*. This can be a very lengthy process and a successful outcome is not guaranteed. You should get advice on the likely timescale and take this into account when you programme your proposals.

Traffic calming and other traffic management schemes

- 6.31 Where the works involve traffic calming, we will consult with interested parties, such local councillors and residents, about the traffic-calming schemes in line with our normal practice. This may include a public exhibition and other consultations beyond minimum statutory requirements. We also carry out consultations on other traffic management schemes, in line with our normal policies and procedures (which we will advise you of during the design process).
- 6.32 After we have received and analysed comments, we will forward our decision to you. You must incorporate any changes to the design we ask for as a result of the consultations.
- 6.33 You must pay the costs of this consultation whether or not the outcome is successful. You should remember that the consultation procedure can be lengthy which will have implications on the programme of works.

Structures

6.34 Where the highway works involve structures please refer to Part 4, Section MC15 for design requirements.

Traffic-signal equipment

- 6.35 In Wolverhampton we will normally design traffic-signal equipment based on detailed road-layout drawings you have supplied. On some occasions and with prior agreement we may allow your consultants to design the equipment.
- 6.36 We will normally supply and install all permanent traffic-control equipment which forms part of the highway works. You must pay the reasonable cost to us for supplying and installing the equipment (plus 10% for our design costs).
- 6.37 You must normally pay us a commuted sum towards the future maintenance of the traffic-signal equipment. Please also see Part 4, Section MC18 for further details on our commuted sums policy.
- 6.38 You must allow us access at all reasonable times to any part of the site on which cables, pipes, ducts or other apparatus associated with the traffic-signal equipment is to be installed or is located. This will enable us to carry out any works we need to do to install and maintain the cables, pipes ducts or other apparatus.

Section WEH4: Obtaining our approval for your highway works

6.39 We will only issue a technical approval when:

- we have completed all design checks;
- the stage 1 and 2 safety audit processes have been satisfactorily completed;
 and
- you have supplied any amended details we require.

Section WEH5: Constructing the highway works

Before you begin

- 6.40 Where works are being carried out under a Section 278 agreement, you must not begin construction unless and until:
 - we have given you technical approval;
 - the Section 278 agreement has been completed and signed and an appropriate surety is set in place;
 - you have provided us with written confirmation that you have notified the Health and Safety Executive that you are client for the works for the purposes of the Construction (Design and Management) Regulations (see paragraph 6.14 for further details);
 - all necessary fees have been paid to us; and
 - the following requirements have also been satisfactorily completed
- 6.41 **Notification of start:** You must normally give us at least five weeks' notice in writing of your intention to begin construction work or begin it again.
- 6.42 **Approving your contractor:** Your highway works must be constructed by a contractor (including any sub-contractor) who has relevant experience and capabilities. You must not start construction of the highway works until we have approved your contractor. So, you must supply information about the contractor you want to use. You can find a list of the information we need on guide AP3.
- 6.43 Where you are unable to supply us with satisfactory details, or where we have previously experienced problems with a contractor (for example with quality of workmanship) we will not approve that contractor.
- 6.44 **The contractor's insurance:** You must indemnify us (protect us from legal responsibility) against any claims by third parties arising from the highway works. Before we will approve your contractor they must provide us with written evidence that they have, as a minimum, £5 million public liability insurance with no limit on the number of claims.
- 6.45 **Pre-start meeting:** You must arrange a 'pre-start' meeting with the appropriate area office. You can find a list of people who should be present at the meeting, and a typical agenda, in PS1.

Health and safety

6.46 You must comply with all aspects of the Construction (Design and Management) Regulations 1994 and indemnify us (protect us from legal responsibility) against all claims, liabilities and actions if you fail to do so. You are also required to submit full details of any traffic management proposals for the construction of the highway works for approval by the appropriate area office inspector.

Site inspection

- 6.47 You are responsible for the day-to-day supervision of the highway works construction. We will only inspect the works to check that they are being constructed in accordance with the approved drawings and our requirements.
- 6.48 It is in everyone's interests that the works are supervised by a competent engineer who is experienced in site supervision of highway works. So we must approve the supervising engineer. The level of supervision you must provide will depend on the nature and scale of the works. For larger schemes, you must provide supervision at all times. We will discuss and agree the level of supervision you must provide at the pre-start meeting.
- 6.49 You must give our representatives access to the works in progress at all times. These visits do not free you from your responsibility for supervising the work and making sure that it is carried out in a proper and safe manner, and in line with the specification. The agreement will state that you must carry out the highway works to our satisfaction and you must comply with any reasonable requests made by our representatives.

Timescale for completing the highway works

- 6.50 Once you have begun work on site it is your responsibility to complete the highway works to our satisfaction and within a 'reasonable' period to minimise any potential disruption to highway users.
- 6.51 We impose a time limit on completing highway works. Normally, the works must be completed, that is we have issued a provisional certificate, not later than 12 months after their construction started.
- 6.52 Where you do not complete the highway works within the specified time limit and we agree an extension of time, we will charge you extra fees towards our additional administrative and inspection costs. Please see paragraph 6.63 onwards for further details. We may call on the bond or use the surety monies that you lodged with us to complete the works.

Section WEH6: Maintaining and adopting the highway works

Issuing a provisional certificate

- 6.53 We will issue a provisional certificate of completion once:
 - you have substantially completed the highway works to our satisfaction;
 - you have completed all street lighting to our satisfaction;
 - any planted landscaping areas, grassed areas, trees, shrubs and so on that we are to adopt have been fully planted and established;
 - the works (including any existing and new planted landscaping and so on)
 have been jointly inspected (that is by us, you and your contractor) and no
 significant defects have been identified, or where they have, you have agreed
 to remedy them to our satisfaction;
 - the stage 3 safety audit has been completed and all changes that we require have been made satisfactorily; and
 - you have supplied us with a plan showing any areas of land that are to be dedicated as highway and you must provide any highway boundary markers.
- 6.54 When we issue a provisional certificate the amount of bond can be reduced, usually to 10% of the original amount. The exception to this is where you are paying us a commuted sum in which case the bond cannot be reduced to a value less than the 'provisional' commuted sums that we have calculated.
- 6.55 You will then be responsible for maintaining the highway works for a minimum period, usually twelve months. This allows any defects in the works to become apparent after they are brought into use.

Issuing a final certificate

- 6.56 We will issue a final certificate of completion when the following actions have taken place.
 - You must contact us at the end of the maintenance period to arrange a further joint inspection of the highway works (including any landscape planting, trees, grassed areas and so on). We will issue you with a list of any outstanding remedial works we require you to do, which you must then complete to our satisfaction.
 - You must have maintained the highway works to our satisfaction during the maintenance period.
 - You must have maintained any existing or new landscape planting, trees, shrubs, grasses areas and so on to our satisfaction during the highway works' maintenance period.
 - You must pay us any commuted sums that are required
 - You must pay us any other charges that are required, for example to cover the bulk clean and lamp change for illuminated signs (see Part 4, paragraph 4.114) or to cover similar for street lighting (see Part 4, paragraph 4.129).

- Stage 4 safety audit must have been completed to our satisfaction. We will
 decide whether to issue the final certificate once the Stage 4 12-month report
 has been completed. (Please see appendix D for further information on safety
 audits).
- You must provide us with 'as built' drawings, preferably in an electronic form on CD, for example Autocad file. See guide FC1.
- You must provide us with the health and safety file, on CD, produced in line with the Construction (Design and Management) Regulations 1994 (CDM).
- The land dedication plan must be agreed.
- 6.57 After all of the above has been done to our satisfaction, we will:
 - issue a final certificate of completion;
 - inform you that the bond can be cancelled; and
 - adopt any areas dedicated to us as highway to be maintained at public expense.

Section WEH7: Payments to us

Our fees

- 6.58 We make a charge for the work involved in:
 - preparing and managing the Section 278 agreement;
 - checking the design of the highway works, any associated structures and any highway drainage; and
 - inspecting the works on site.
- 6.59 The charge for administration, design checking and site inspection is normally a fixed percentage. It is based on the estimated cost of the total highway works, as agreed with us, and excludes any associated structures (see below) and SUDS and 'non-standard' drainage systems, but includes any alterations to service providers' equipment (water, gas, cable TV and so on). The fee is normally calculated as:
 - 7.5% of the first £750,000 of the cost of the highway works; plus
 - 6.5% of the cost over £750,000;

with a minimum charge of £2500 for each agreement.

- 6.60 We will make additional charges for design checking and site inspection of highway structures based on 'actual' costs. (Please see Part 4, Section MC15 for further details on structures.) We will also charge additional fees, based on 'actual' costs, for SUDS and 'non-standard' drainage systems. (Please see Part 4, Section MC8 for further details on drainage.)
- 6.61 There is also an additional fixed fee for each agreement plus disbursements (money we pay on your behalf) to cover legal costs. This fee is fixed by the Legal Department and we review it every year.

Commuted sums

6.62 For some time we have normally required commuted sums to cover maintenance of such items as highway structures, noise fencing, traffic signals and 'heritage' street lighting where they are to be adopted as part of a publicly maintained highway, We have now broadened this requirement to give us greater flexibility to adopt 'innovative' layouts and 'non-usual' materials without placing undue burdens either on our budgets or on Council Tax payers.

- 6.63 So, where in principle we are prepared to adopt them, you will normally also have to pay commuted sums on:
 - additional areas exceeding usual highway design standards and which are not required for the safe functioning of the highway;
 - materials outside our usual Specifications;
 - non-usual or additional street furniture;
 - any new landscaping within the highway, including trees; and
 - sustainable drainage systems (SUDS), for example, flow-attenuation devices, swales and storage areas).

Note: Where you are proposing SUDS, you must hold discussions with all relevant parties at an early stage (and certainly before you submit your planning application) to agree ownership and responsibility for the facility.

This is not an exhaustive list. There are other occasions detailed throughout this document where we require the payment of commuted sums, for example vertical traffic calming.

6.64 Part 4, Section MC18 gives more details on commuted sums and how we calculate them.

Section WEH8: The Land Compensation Act 1973 and the Noise Insulation Regulations 1975

6.65 Under the Land Compensation Act 1973 people can claim compensation if the value of their property is depreciated by noise and other specified physical factors arising from the use of a new or altered highway. The Noise Insulation Regulations 1975 require us to offer noise insulation or grants to occupiers of dwellings subjected to noise at or above the specified level due to the use of a new or altered highway. The agreement contains a clause requiring you to indemnify us (protect us from legal responsibility) against the full costs of any payments we make under these regulations. We will notify you about any claim we receive and also about any offers of noise insulation we are making, if any.

Supporting guides to Part 6

- Guide FS1 Section 278 Agreements feasibility stage
- Guide AG1 Section 278 Agreements information to be supplied by developer
- Guide DD1 Section 278 Agreements information required at detailed design stage
- Guide AP3 Required contractor information
- Guide PS1 Pre-start meeting
- Guide FC1 Section 278 Agreements as-built drawing requirements
- Guide PD1 Section 278 Agreements information required at preliminary design stage

Feasibility Stage Guidance Notes - Guide FS1

Section 278 agreements - feasibility stage

The level of information we will require will depend, amongst other things, on the scale and location of your proposed works.

The information that we require must be submitted along with any other relevant supportive drawings and information to assess the proposed works and overall principals of the design prior to more detailed design being carried out. This will hopefully avoid any abortive design at a later stage.

Key Information - Feasibility Stage

Brief description of intended works/development

1:2500 (or appropriate) scale plan, showing provisional landtake/highway boundaries

Provisional longitudinal section (with k values) of centre line

Any known design constraints e.g. Statutory Undertakers, Land Issues, Structures, Tree Preservation Orders

Any known relaxation/departures from standard to be considered in the design

Design speed selection for each highway link

Justification of highway cross section (carriageway width etc for appropriate traffic flows)

Justification of junction type

Drainage strategy showing intended outfalls

Information on any structures required

Issues identified through the Transport Assessment and Travel Plan i.e. traffic calming, pedestrian requirements, infrastructure works

Pedestrian and cyclist facilities/strategy

Public transport facilities/strategy

Intended treatment of existing Rights of Way

Any special material consideration i.e. street furniture in conservation areas

Safety audit stage 1 (If available)

Environmental assessments

Accommodating works for persons with disabilities i.e. raised bus stops, tactiles

AADT (Annual Average Daily Traffic) figures for design purposes

Consideration for requirements for safety fence

Other specific information

Developer Agreement Form - Guide AG1

Section 278 agreements: Information to be supplied by the developer

- 1. Developer's full name and address
- 2. Contact details
- 3. Names and addresses of parties to the Agreement
- 4. Details of Solicitors
- 5. Proof of land title
- 6. Details of planning permission
- Location of site
- 8. 6 copies of plan showing application site
- 9. 6 copies of General Layout plan of works showing limit of works
- 10. Detailed description of the highway works
- 11. Estimated cost of the highway works (including Utility Company costs)
- 12. Whether a Bond or a Cash deposit will guarantee the Agreement
- 13. Letter to confirm the covering of reasonable (abortive) costs

Detailed Design Guidance Notes - Guide DD1

Section 278 agreements – Information required at detail design stage

The level of information we will require will depend, amongst other things, on the scale and location of your proposed works.

The information that we require must be submitted along with any other relevant supportive drawings and information to assess the proposed detailed design. This will enable the efficient consideration of your proposals and hopefully avoid any abortive work at a later stage.

General

- 1:1250 plan showing scheme extents, and existing road network. (An alternative scale may be used to suit nature/size of scheme)
- If not already supplied at a preliminary design stage, provide all information normally required for a preliminary design check
- The design basis e.g. WCC Highway Requirements for Developments or DMRB

Detailed design layouts

1:500 Plans showing:

- Site clearance details
- Drainage layout: Pipe runs, manhole and gully positions. Pipes intended for adoption should be highlighted
- Earthwork details
- Carriageway and footway construction details indicating areas of different pavement types areas
 of overlay, reconstruction, planning etc.
- Kerbing and edging details
- Traffic sign positions and road markings. Each sign should have an accompanying schedule giving post sizes, mounting heights illumination details, foundation details etc.
- Landscaping proposals
- Road lighting positions
- Fencing proposals showing highway boundary positions and visibility splays
- Safety fence layout
- Structures position and orientation
- Electrical works i.e. trenches and cabling

Vertical design

- Longitudinal sections showing centreline and channels in relation to existing ground levels
- Proposed gradients and k values for sag and crest of curves, horizontal schematic showing curve radii, transitions
- Cross sections showing proposed levels and profile in relation to existing levels and proposed/existing
- Boundaries

Note: Appropriate exaggerated vertical scales should be adopted for longitudinal and cross sections

Detailed Design Guidance Notes - Guide DD1

Junction design

Roundabouts:

- Provide 1:200 or 1:500 plan showing proposed spot levels, contours and crown lines
- Provide design checklist to ensure geometric compliance with DMRB (Vol. 6) TD 16/93 Geometric Design of Roundabouts.
- Provide existing, generated & forecast turning flows for the morning and evening peak periods
- Provide traffic reserve capacity calculations for the AM & PM peak periods using the latest version of ARCADY
- Demonstrate deflection
- Show visibility lines
- Provide segregation for cyclists and pedestrians as required

Priority junctions:

- Provide 1:200 or 1:500 plan showing proposed spot levels, contours and crown lines
- Provide design checklist to ensure geometric compliance with DMRB (Vol. 6) TD 42/95 –
 Geometric Design of Major/Minor Priority junctions
- Provide design checklist to ensure geometric compliance with DMRB (Vol. 6) TD 41/95 –
 Geometric Design of Vehicular Access to All-Purpose Trunk Roads (where appropriate)
- Provide existing, generated & forecast turning flows for the morning and evening peak periods.
- Provide traffic reserve capacity calculations for the AM & PM peak periods using the latest version of PICADY
- Justification for the chosen specific layout
- Provide suitable routes for pedestrians and cyclists as required

Traffic signal junctions:

- Provide a 1:500 or 1:200 plan on a topographical base showing signal heads, pole position, ducting etc.
- Provide existing, generated and forecast turning flows for the morning and evening peak periods.
- Provide appropriate traffic reserve capacity calculations for AM and PM peak periods using LINSIG or TRANSYT (where appropriate)
- Ensure that design complies fully with DMRB (Vol 6) Standard TD 50/99 The Geometric Layout of Signal Controlled Junctions & Signalised Roundabouts

Pedestrian crossing facility

- Provide a 1:500 or 1:200 plan on a topographical base, showing signal heads, pole position, ducting etc.
- Ensure that design complies with the following standards/advisory notes (as appropriate):
 - a) Traffic Advisory Leaflet 1/02 The Installation of Puffin Pedestrian Crossings
 - b) Traffic Advisory Leaflet 04/98 Toucan Crossing Development
 - c) Traffic Advisory Leaflet -10/93 'Toucan' An unsegregated Crossing for Pedestrians and Cyclists
 - d) Statutory Instruments 1997 No.2400- Road Traffic The Zebra, Pelican and Puffin Pedestrian Crossings Regulations & General Directions 1997

Detailed Design Guidance Notes - Guide DD1

- e) Local Transport Note 2/95 The Design of Pedestrian Crossings
- f) Design Manual for Roads Bridges (DMRB) (Vol 8) TA 15/81 Pedestrian Facilities at Traffic Signal Installations
- g) DMRB (Vol 6) TA 86/03 Layout at Large Signal Controlled Crossings
- h) DMRB (Vol 8) TD 35/91 MOVA Traffic Control
- i) DMRB (Vol 8) TA 12/81 Signals on High Speed Roads
- j) DMRB (Vol 8) TA 16/81 General Principles of Control by Signals
- k) DMRB (Vol 8) TA 68/96 Assessment & Design of Pedestrian Crossings

Statutory Undertakers (for example gas, water, cable TV)

• Plans showing existing apparatus along with any diversion/protection proposals.

Structures

Design must comply with agreed Approval in Principle (AIP). All design/check certificates in accordance with BD2/02 shall be supplied to and endorsed by the Technical Approval Authority. The following drawings are required:

General arrangement:

- Detail design details should include: dimensions, levels, materials and finishes, drainage and service ducts, parapet details, earthwork details, foundation details.
- Reinforcement details showing cover to steel and reinforcement details in accordance with BS 8666:2000.

Geotechnical Information:

- Initial ground investigation proposals
- Desk study information including preliminary deep borehole work
- Ground investigation including detailed proposals with borehole locations, schedules, long sections and laboratory testing philosophy
- Factual report
- Interpretative report including calculations
- Earthworks design including drawings and specification
- Structural foundation design

'Buildability'

- Does the design allow for the contractor's input?
- Provide evidence that construction issues have been addressed in the design, for example 'Beany' blocks constructed to default radii, manholes positioned out of the carriageway

Detailed Design Guidance Notes - Guide DD1

Traffic management

- Are road closures required?
- Provide information for both local and heavy diversion routes (where appropriate)
- Give evidence on the provisions made for local transport services during the construction phase

Drainage design

- Drainage design calculations/output
- · Gully spacing design output
- Provide information on the depths of cover of lines
- Provide invert and chamber sizing of access chamber
- Provide discharge calculation at the outfalls
- Provide details of retention storage
- · Provide calculations and information on mechanical elements e.g. pumps and throttles
- Provide information on petrol interceptors

Landscaping

- Provide information on planting strategy
- Provide drawing of planting areas
- Provide planting specifications
- Give information on the preparation works and also soil types to be used
- · Provide listing of all species of plants and density
- Provide maintenance regime

Construction Design and Management Regulations

- Provide all risk assessment and a copy of the pre-tender health and safety plan
- Provide a copy of F10

Other Supporting Information Required

- Traffic flows
- Carriageway construction design calculation
- CCTV videos of any existing drainage used as outfall/connection
- Sign schedules
- Autotrak plots for HGV manoeuvres at appropriate locations
- Stage 2 safety audit problems, recommendations and designer's responses where appropriate
- WCC standard drawings: The WCC standard drawings should be used except where no
 appropriate detail covers the proposal. They are available on the WCC website
 http://website.wolverhampton.gov.uk/standard_drawings.htm. It is not necessary to import the
 drawings into a consultant's drawing frame, but simply collate them in a binder of booklet.

Required contractor information - Guide AP3

Contractor to supply the following information:

The level of information we will require will depend, amongst other things, on whether or not your intended contractor has worked before on a project of a similar scale and nature in Wolverhampton and whether or not we have been satisfied with the way that they have performed.

- 1. Company name
- 2. Head Office address, telephone and fax numbers
- 3. Local Office address, telephone and fax numbers
- 4. Website
- 5. Contact details
- 6. Name and address of insurance brokers
- 7. Employers liability insurance details
- 8. Public liability (third party) insurance details
- 9. Brief description of the firm's business
- 10. A statement of the company's tools, plant, technical equipment and manpower available to them for carrying out the works
- 11. Details of previous similar work (for each scheme give the following)
 - · title of scheme and date
 - brief description
 - cost of scheme
 - state whether main contractor of sub-contractor
 - name and address of client
 - name, address and position of engineer supervising the contract from whom a reference may be obtained
- 12. Details of Quality Assurance Accreditation to BS EN ISO 9000
- 13. A bankers address for references
- 14. Health and safety questions:
 - name and position of senior person within the company with responsibility for co-ordinating health and safety
 - copy of the most recent health and safety policy statement including the organisation in place, and a list of the arrangements in force (the contents page may suffice as a list of arrangements)
 - name, health and safety qualifications and experience of safety advisor
 - are formal systems in place to ensure that all plant, equipment and vehicles used on site are regularly inspected and adequately maintained? Enclose a recent example of an inspection/ maintenance report.
 - has the company developed permit to work systems, safe systems of works, safety procedures etc appropriate to the work undertaken by the company? Enclose a recent example
 - are specific resources allocated for safety supervision, training and safety equipment as appropriate to the work undertaken by the company? Give details.
 - are risks assessed, assessments recorded and control implemented as appropriate, prior to commencement of work?
 - has the company been prosecuted or served with a prohibition and/or improvement notice for any breach of health and safety in the last three years?

Pre-start meeting - Guide PS1

Pre-start meeting

The level of detailed to be discussed at the meeting will depend, amongst other things, on the scale and location of your proposed works.

Attendees:

Representatives from:

- Highways Development Control
- District Engineer/Highway Design
- Consultant
- Developer
- Contractor
- Police if appropriate

List of matters to be considered for the agenda

- 1. Who's who, including site representatives
- 2. Check if legal agreement completed, bond in place and fees paid
- 3. Completion of any necessary consents, easements or wayleaves
- 4. Daytime and out of hours contact telephone numbers
- 5. Contractor's insurance
- 6. Sub-contractors
- 7. Approved drawings
- 8. Clarification of any Specification queries
- 9. NRSWA matters (where appropriate)
- 10. Results of site investigations and tests
- 11. Date of commencement
- 12. Liaison with local residents and any advance signing/notice requirements
- 13. Programme of works
- 14. Working hours
- 15. Method of working
- 16. Traffic management, including any use/approval of temporary signals (where appropriate)
- 17. Temporary traffic regulation orders in place? (where appropriate)
- 18. Health and safety
- 19. CDM Regulations, including planning supervisor & health & safety file
- 20. Inspection
- 21. Notification of stages of construction (where appropriate)
- 22. Materials testing
- 23. Site accesses and storage areas
- 24. Setting out, including visibility splays and highway boundaries
- 25. Clearance of visibility splays
- 26. Effect on any existing Rights Of Way
- 27. Approval of any proposed direction signing
- 28. Any specified construction traffic routes
- 29. Mud, materials and equipment on the highway
- 30. Protection of existing trees and other features to be retained
- 31. Routine maintenance requirements

Section 278 Agreements: As-built drawing requirements - Guide FC1

Section 278 agreements - As built drawing requirements

The level of information we will require will depend, amongst other things, on whether or not your intended contractor has worked before on a project of a similar scale and nature in Leicestershire and whether or not we have been satisfied with the way that they have performed.

Delays in providing the required information will delay issue of the final certificate and cancellation of the bond.

We require 1:500 (or other appropriate) scale as built drawings showing:

- drainage
- highway boundaries
- construction details
- visibility splays
- signing and lining,
- street lighting
- dedication drawings
- any features to be adopted with maintenance implication outside the highway boundary (e.g. outfalls)

In addition to drawings, you must provide the calculations for any structures.

Section 278 Agreements: information required at preliminary design stage - Guide PD1

The level of information we will require will depend, amongst other things, on the scale and location of your proposed works.

The information that we require must be submitted along with any other relevant supportive drawings and information to assess the proposed works and overall principals of the design prior to more detailed design being carried out. This will hopefully avoid any abortive design at a later stage.

Key Information - normally required at the Preliminary Design Stage

General

- Details of planning consent and conditions
- Current state of S278/S38 agreement where appropriate
- Details of any residential properties likely to result in Part 1 claims or noise insulation as part of Land Compensation Act
- Stage 1 safety audit with designers response
- Details of pedestrians/cyclist/public transport provision
- Intended treatment of existing Rights of Way
- Traffic flows or traffic study reports
- Evidence of public participation or meetings with relevant third parties
- If not already submitted provide information normally required at the feasibility stage

Layout

- Any known relaxations departures from design standards to be identified in the design
- Design speed selection for each highway link
- Justification of highway cross section (carriageway width etc) for appropriate traffic flows where not already agreed or approved (by us or the planning authority)
- Justification of junction type where not already agreed or approved (by us or the planning authority). Agree any traffic signal geometric requirements
- 1:1250/1:500 horizontal plans of existing and proposed layout
- Provisional highway boundary position ensuring that signage, street lighting, maintenance are provided for
- Areas intended for landscaping and provisional proposals
- Provisional longitudinal sections of centreline with k values
- New cross sections or typical cross sections showing relationship of proposed profiles with existing ground level
- Visibility splays
- Consideration for requirements for safety fence

Drainage

- Drainage strategy showing intended outfalls
- Environment Agency approval for discharge of drainage
- Easement if present or proposed
- Proposals for pumps or throttles and temporary storage areas
- Drainage longitudinal sections and indication of those pipes to be adopted by LCC

Earthworks

- Details of borrow pits and or temporary storage areas
- Sources of imported material
- Recycling or other environmental strategy
- Ground investigation reports and identification of any special features or geotechnical aspects

Section 278 Agreements: information required at preliminary design stage - Guide PD1

Key Information - normally required at the Preliminary Design Stage	
Signing	
- Direction signing strategy	
Structures	
- Structures. General arrangement of structures and AIP Document in accordance with BD 2/02	
Statutory undertakers (for example, gas, water, cable TV)	

Statutory undertakers (for example, gas, water, cable 1v)

- If it is appropriate at this stage to serve a provisional NRSWA Notice, provide 25 plans suitable for this purpose

Environmental aspects and heritage

- Identification
- Permit to work and licenses
- Reports and findings of surveys and searches

Section 184 - Advice for Developers - Guide s184

Section 184 of the Highways Act 1980 deals with the formation of vehicle crossings over footways and verges. There will be no changes in the existing procedure for domestic or minor accesses which are dealt with by completing the domestic footway crossing application form which can be obtained by calling City Direct on (01902) 551155 However, alterations to existing, and formation of new, vehicular crossings that cannot be covered by the Black Country Alliance standard drawing SD/700/09 will now be categorised as 'major'/non-domestic' for which at the present time a section 50 application will be required.

The reason for this is to provide a consistent approach throughout the City and to ensure fees are imposed which cover the time spent on the applications. We will ensure accesses are constructed fit for purpose and meet the requirements of any relevant planning conditions. 'Major/non-domestic' S50 applications will typically consist of:

- New access on industrial developments.
- Accesses that require tactile crossing points.
- Accesses to multiple properties or units.

What needs to be done before any works commence?

- Complete a section 50 application form with fee.
- Two detailed engineering plans which include details of on-site safety (Section 174 Highways Act 1980) scaled to 1250 are submitted to and technically approved by City of Wolverhampton Council Transportation Services.
- You must tell us which contractor you intend to use and the duration of the works.
- You must indemnify us (protect us from legal responsibility) against any claims by third parties arising from the highway works.
- Before we will approve your contractor they must provide us with an insurance certificate showing that they have a minimum, £5 million public liability with no limit on the number of claims and also proof of their accreditation of working on the public highway.
- Following technical approval a licence under section 50 New Roads and Street Works Act 1991 will be issued to execute the works.
- Statutory undertakers should be contacted to locate any issues with services.
- A pre-start meeting should be arranged with the relevant area inspector (details will be provided with notification of technical approval). At least 21 working days notice should be given before any works commence.

Please submit your application form to:

City of Wolverhampton Council Footway Crossing Requests Highway Assets Culwell Street Depot Culwell Street Wolverhampton WV10 0JN