
HEREFORDSHIRE PUBLIC REALM CONTRACT 2021/22

ANNEX 3 – END TO END NETWORK IMPROVEMENTS

SERVICE OVERVIEW

SERVICE SUMMARY

The purpose of the Design and Build “end to end” Network Improvement Service is to provide seamless service delivery of public realm improvements and support the Herefordshire Council (HC) Transportation and Major Projects Teams in the development of studies, design and delivery of major schemes. This will also include the delivery of the programme of improvement works (as established through the Core Strategy, Local Transport Plan, Highways Maintenance Plan and Transport Asset Management Planning) for all public realm assets. BBLP will be responsible for the whole lifecycle of each public realm improvement from scheme identification through to implementation. This includes the procurement, feasibility studies, project and budget management, design, consultation, development and construction of each scheme.

Under this Annex the types of services that are provided include:

- Project Management
- Preparation of feasibility Studies
- Support to the identification of schemes and procedure through planning;
- Support to funding applications
- Design of schemes
- Liaison with local Members and Parishes in identification, development, approval and construction of schemes
- Consultation on design and construction options and proposals
- Proactive communications
- Delivery in line with an annual programme
- Business Case development
- Budget Management
- Support to Procurement of prime contractors where appropriate
- Providing reports and presentations at liaison meetings
- Close out / monitoring /supervision / handover to asset
- Material selection process (Annex 8) / change process

This Annex provides details of the structured project management method to be adopted across all service areas. The method draws on best practice to provide a consistent framework for delivering project work. The Annex addresses the overarching organisational structure, roles and responsibilities, service methodology, programme, risk management, performance management, innovation and continuous

improvement. Design and Project Management Service also includes the setting of Target Cost for project delivery.

The Annual Plan through this Annex will support delivery of the Councils Core Strategy.

Figure 1: Scheme identification and packaging

The above schemes build on the progress as reported in the LTP Annual Progress Reports that allow for benchmarking of improvements or trends in travel habits. The key indicators show:

- Improvement in the Condition of Principal ‘A’ and Non Principal ‘B’ and ‘C’ Roads, but marginally short of the targets.
- Notable improvements in the Condition of Unclassified Roads, but a substantial number require further investigation.
- An increase in People Killed or Seriously Injured in Road Traffic Incidents
- Increased congestion in Hereford
- Continuing rise in cycle flows
- A decline in bus patronage

In relation to Road Safety on an annual basis Herefordshire’s AIP (Accident Investigation and Prevention) team review Personal Injury Accident (PIA) data for the preceding five year period to determine Accident Cluster sites within the County. This assessment identifies where action is appropriate based on the observed trends, past works and available funding.

SERVICE SUMMARY		
		Output
Capital Activities	Minor Safety Improvements	Minor Safety Improvements Loss of Control Sites
	Network Surfacing Programme	<ul style="list-style-type: none"> • Patch Pave Programme • CAT2C high benefit/priority defects • Safety barrier repairs • Lining and road marking repairs • Surface Dressing

	Active Travel	<ul style="list-style-type: none"> • Pedestrian / Footway Improvements • Programme to be developed working with ZOOM and fastershire project
	Network Resilience Schemes	<ul style="list-style-type: none"> • Wilton Road, Ross on Wye • How Caple • Symonds Yat East • Symonds Yat BOAT Homestead • Garway • Stockley • Jubilee Drive • Huntington Lane badger activity • Abbey Dore Badger activity • Storm Bella and Christophe repairs (currently being scoped and costed)
	Prior Street	<ul style="list-style-type: none"> - Liaison with Highways England (HE) - Costs for further information potentially required by HE - Implementation of interim sign and marking solution - Detailed Design - Scheme Implementation

Non LTP	HAM	<ul style="list-style-type: none"> Footways Patch Pave Programme
	Old Gore Cross	<ul style="list-style-type: none"> Completion of signalised junction design Construction of signalised junction
	Aspirational Safety Schemes	See embedded files

Performance Indicators		
	Indicator	Target
OPIs	Insert relevant OPI's and target/ threshold as per agreed	
OPIs	<p>OPI 12 Risk Management - Based on the RAG rating for risk where:</p> <ol style="list-style-type: none"> All Red risks must be reviewed monthly All amber risks every 6 weeks All yellow risks every 2 months <p>OPI13 Special Projects Management & Deliverables</p> <p>OPI14 Special Projects Communications</p>	100%
Strategic KPI	Public satisfaction with 'management of road works' – measured through NHT survey - forms part of SPI 15 Customer satisfaction	50%

SERVICE OUTCOMES

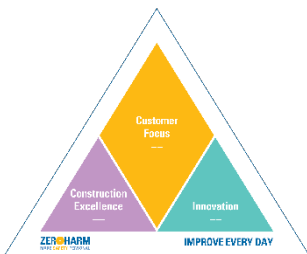
OUTCOMES	HOW WILL THE OUTCOME BE ACHIEVED
Enable economic growth	Building new roads linking new developments to the transport network and by reducing short distance car journeys
Provide a good quality transport network for all users	By being proactive in our asset management and by working closely with the public, Highways England and rail and bus companies

Promote healthy lifestyles	Making sure new developments maximise healthier and less polluting forms of transport including walking, cycling and bus use, by delivering and promoting active travel schemes and by reducing short distance single occupant car journeys on our roads
Make journeys safer, easier & healthier	Making bus and rail tickets compatible and easier to buy and use, by providing 'real time' information at well equipped transport hubs, by improving signage to walking and cycling routes and by helping people feel safe during their journeys
Ensure access to services for those living in rural areas	Improving the resilience of our road network and by working closely with all transport operators to deliver a range of transport options particularly for those without access to a car

ASSUMPTIONS

- Scheme specific risk registers developed during target costing process
- Changes to programme delivery will be managed through the change control process

OUR COMMITMENTS FOR 2021



Customer Focus First is our strategy, it is built on three pillars: Customer Focus, Construction Excellence and Innovation, all of which sit within a framework of safety first.

For 2021 we will make the following commitments to deliver tangible, positive outcomes to our customers, local communities, the public and our employees.

Customer Focus Aim: Do the right kind of business, exceed our customers' expectations, always deliver certainty and 'Get Left' through early engagement



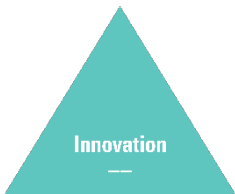
- Challenge ourselves to exceed customer expectations
- Collaborate with our supply chain partners
- Do what we say we will do
- Share our success with stakeholders to demonstrate our expertise & illustrate opportunity

Construction Excellence Aim: Create expert teams that deliver exemplar performance, empower our people to drive continuous improvement, be a trusted provider and engage with best in class partners



- Putting Safety and Zero Harm, first.
- Recognise & share best practise
- Do what we say we will do throughout the delivery cycle
- Be open & transparent, willingly sharing our knowledge & expertise

Innovation Aim: Deliver our 20 by 2025 commitments, motivate and upskill our people to use technology and innovate, and use data to inform improved decision making



- Focus safety, 'right first time' & on time delivery.
- Use appropriate technology to simplify & automate operations
- Host Improve Every Day workshops & innovation forums
- Create 'one version of the truth' data & develop automated reporting

Zero Harm Safety is our license to operate



Employees will follow four safety rules:

- Be fit for Work
- Always receive a briefing before starting work
- Report all unsafe events and conditions
- Stop Work if anything changes

THE SERVICE

SERVICE DELIVERY

	SERVICE	RESOURCE	DELIVERY
Capital Activities	Minor safety improvements	BBLP design & construction teams	Delivered as identified in 21/22 programme
	Network Surfacing Programme	BBLP construction delivery team supported by specialist surfacing contractors	Surfacing schemes will be delivered according to the list within the annex of this annual plan
	Active Travel	BBLP construction delivery team supported by specialist surfacing contractors	Surfacing schemes will be delivered according to the list within the annex of this annual plan
	Network Resilience Schemes	BBLP design / construction delivery team supported by specialist sub-contractors	Schemes continuing from 20/21 programme Additional schemes delivered throughout 2021/22 when identified
Non LTP	HAM Funding	BBLP Design & construction teams	Delivered as identified in 21/22 programme
	Old Gore Cross	BBLP construction delivery team supported by specialist surfacing contractors	Delivered as identified in 21/22 programme
	Aspirational Schemes	BBLP construction delivery team supported by specialist surfacing contractors	Schemes delivered if additional funding becomes available in year. HC Governance process to provide authority to deliver these schemes

SERVICE SCOPE

SERVICE	SCOPE
<p>Minor safety improvements</p>	<p>Minor safety improvements on the network will be agreed in consultation with Herefordshire Council’s accident investigation team. Detailed briefs will be agreed when safety improvement sites have been identified. To identify the potential sites for consideration an early analysis of cluster sites is shown based on the most recently available data for the preceding last 4½ years at the time of preparation. This portrays the ranking of sites where no prior work has been undertaken or past works have been implemented but appear to require re-evaluation. It may not reflect the final list of sites where work is recommended to be carried out, but does provide an indication of the potential scale and scope. Following production of the final list based on the full 5 calendar year records, additional sites may be brought in, dependant on the most recent year-end collision information received.</p>
<p>Network Surfacing Programme</p> <ul style="list-style-type: none"> • Patch Pave Programme • CAT2C high benefit/priority defects • Safety Barrier Repairs • Lining & road marking repairs • Surface Dressing 	<p>Error! Reference source not found. sets out a detailed scope of network surfacing works to be delivered in the 2021/22.</p> <p>On an annual basis the quantum of works is managed to reflect the agreed headline budget for these works noting the backlog of schemes.</p> <p>The surfacing works programme monitors and manages potential areas on the strategic network that require works beyond minor repair. The programme of works is collated and prioritised using Horizons; our asset management programme.</p> <p>Horizons balances through a cost benefit process the immediate safety benefits of resurfacing scheme for roads at end of life with the realised long term safety benefits of life extending surface dressing schemes which prevent defects from forming.</p> <p>CAT2b high benefit and priority defects are those lower risk defects where early rectification once identified provides material benefit in arresting deterioration and preventing the defect from deteriorating into a more costly or higher risk defect.</p> <p>Consideration of aspirational safety schemes for inclusion within the network surfacing programme for 2021/22 will be through liaison with the HC accident team.</p>

<p>Active Travel</p> <ul style="list-style-type: none"> • Pedestrian / Footway Improvements 	<p>Appendix D: Programme of Works sets out a detailed scope of pedestrian / footway improvement works to be developed working with ZOOM & Fastershire project</p>
<p>Network Resilience Schemes</p> <p>Roads at Risk – Scheme Identification & Design</p>	<p>Error! Reference source not found.Sets out scope of network resilience schemes to be delivered in the 2021/22.</p> <p>On an annual basis the quantum of works is managed to reflect the agreed headline budget for these works noting the historic scale and financial demands of such schemes. A network risk register monitors and manages current and potential issues on the network that may require work beyond the financial capacity of the programmed maintenance works or routine/reactive service. These sites are listed in Table 6. The ranking system can be viewed in Annex 8.</p>
<p>HAM</p>	<p>Footways</p> <p>2021/22 Programme to be developed in parallel with ‘ZOOM’ network installation</p> <p>Patch Pave Programme developed following inspections identifying requirements.</p>
<p>Old Gore Cross</p>	<p>Completion of design & construction of new signalised junction</p>

RISK MANAGEMENT

High level risks will be managed through the Partnership risk management process and listed on the partnership risk register.

The development of scheme costs follows a Target Cost Approach. For each scheme a target cost will be developed which incorporates the costs of delivering the scheme, BBLP’s margin and an allowance for risks associated with delivering the scheme. The risks will be captured in a scheme specific risk register. The management of these risks will be the responsibility of the Project Manager for the scheme.

Changes to schemes will be managed through the contract mechanisms documented in Clause 17 and Clause 60 of the Contract:

- Early Warning Notices (EW) – issued by either client or contractor and servicing notice of perceived issues/performance that could:
 - increase the cost of providing the service;
 - affect the progress or performance of the service;
 - impair the performance of the Public Realm in use;
 - result in the aggregate of all amounts due exceeding budget.
- Compensation Events (CE) – a means of capturing and agreeing alterations to agreed costs and or programme, usually following an Early Warning Notice.

Below are examples of some operational key risks. The detailed generic schemes risk register is in **Error! Reference source not found.**

	KEY RISK	MITIGATION
Operational	Public do not buy in to scheme design and objectives	Develop Communications Protocol for Contract and Plan for individual schemes. Feedback from Locality Stewards to be considered. Pro-active approach to Consultation – early elected member involvement. Right Information to the Right People at the Right Time.
	Unforeseen Local Member involvement	Involve all relevant Local Members through liaison/regular updates in order to minimise any unforeseen involvement.
	External Designs do not meet HC objectives	Undertake robust checking procedure. Design responsibilities to be made clear during project briefing. Clear briefing to sub-Designers/suppliers.
	Design competence not available due to lack of skills / numbers	Use Competency Matrix to review design staff requirements. Utilise resource from other BB Design Partners or Supply Chain.
	Project management resources not available impacting project control	Implementation of enhanced project management structure should address capacity issues. Allocation of all projects to a dedicated senior project manager will support improved resource management. BBLP will keep the client informed of personnel changes such that any impacts on delivery can be understood and managed.
	Design tasks exceed budget and/or programme	Clear briefing of objectives and plan for joint agreement. Robust Project Management techniques to be followed. ECI and Consultation process to develop realistic programme.

PART 2

ORGANISATION

KEY DELIVERY INTERFACES

	Who the Highways Schemes Team will liaise with	Why we will liaise
Public Realm BBLP Partnership	Network Manager	Understanding scheme timetables/programmes and arranging TROs
	Programme Manager	Two-way flow of information to keep IWP updated and identify programme efficiencies. Identify any Category 2 defects within roads on the investment programme which can be repaired as part of these works
	Asset Management Team	Identification of schemes for highway, drainage and structures. Feedback of information and 'as-builts' to update the asset model with changes on the network. Sharing asset model with Herefordshire Council through GIS
	NRSWA Team	Issuing of S58 notices and co-ordinating road booking and works with utilities
	Customer Liaison Manager	Communication of road closures, advice on stakeholder engagement activities
	Performance & Improvement Manager	On-going feedback/ review of service performance
	Locality Teams	Identifying asset improvement requirement. Inspection of assets, to support the management of guarantee periods and ensure asset life.
	Countywide Amenity Teams	Coordination of works, utilisation of road space
Herefordshire Council	Cabinet / Local Members	Keeping them abreast of scheme development
	HC Transportation and Major Projects Teams	Carry out work in accordance with Service Orders and co-ordination with BB managed schemes
	HC Legal Services	Promotion of Temporary TROs and engagement in land acquisition
	HC Governance	To advise on Council reporting processes
	HC Contact Centre	Provision of Scheme information for handling customer enquiries
	HC Communications Team	Develop Communications Protocol for Contract and Plan for individual schemes.
	HC Waste Management	Coordinating activities to minimise impact on waste collection from scheme construction

	HC Passenger / School Transport Team	Consultation on temporary impact on operation.
	HC Planning Team	To lead and liaise on planning issues
	HC Forward Planning Team	Liaison on the development of the forward plan.
	HC Property Team	Land acquisition for schemes work with land take Completion of Land Searches
External Organisations	Statutory Undertakers	Noticing and agreement of temporary works and diversions, location and information on services
	Local Businesses (inc schools and hospitals)/Chambers of Commerce/Transport Operators	Minimising impact on business activities
	Land Owners	Minimising impact on activities and use of land for schemes (temporary or permanent)
	Special interest groups (accessibility groups, cycling etc.)	Consultation on scheme proposals
	Neighbouring local authorities	Coordinating cross boundary works
	Bus Companies, Transport Operators	Consultation on temporary impact on operations
	Highways England and agents	Coordination with trunk road works in the County
	Police and other Emergency Services	Consultation on TROs, abnormal routes, traffic management proposals
	Government Agencies	Consultation on scheme proposals
	Environment Agency and Natural England	Secure approvals for completing works at protected sites. Consult on scheme solution.
	Safer Roads Partnership	Respond to requests for schemes as a result of safety concerns on the network.

- Additional stakeholders may be identified throughout the 2021/22 period and will be incorporated in the above list

APPENDICES

APPENDIX A: POLICY & PROCESSES

PROCESSES

APPENDIX B: REFERENCE DOCUMENTS

LEGISLATIVE DOCUMENTATION

- Highways Act, 1980
- Traffic Management Act, 2004
- New Roads & Street Works Act, 1991
- National Planning Policy Framework (NPPF) 2012
- Town and Country Planning Act 1992 subsequent revisions and additions
- DMRB – Design Manual Roads and Bridges
- Manual for Highway Works Spec for Highway Works
- Manual For Streets/Manual For Streets 2
- Sustrans Design Manual – Handbook for cycle friendly design (April 2014)
- Cycling Infrastructure Design (DfT 2008)
- Shared Use Routes for Pedestrians & Cyclists (DfT 2012)
- Safety - HD 19/05.
- CIHT Road Safety Audit guidelines
- Guidelines for Providing for Journeys on Foot (CIHT 2000)
- Accessibility Action Plan (Draft August 2017)
- Understanding Walking and Cycling (UWAC project 2011)
- Active Transport for Healthy Living Coalition (June 2014)
- Working together to promote active travel: a briefing for local authorities (May 2016)
- ICE State of the Nation Infrastructure 2014
- ICE Walking & Cycling topic page
- Collision investigation techniques identified in the RoSPA manual and collision statistics from
- DfTs Reported Road Casualties Great Britain annual publication (provided by HC)
- Highways Maintenance Efficiency Programme (HMEP) Lifecycle Planning Toolkit

HEREFORDSHIRE COUNCIL DOCUMENTATION

- Herefordshire Highway Maintenance Plan
- Herefordshire Local Transport Plan/Strategy and Policy
- Transport Asset Management Plan
- Highways Design Guide for New Developments (Herefordshire Council 2006)
- Herefordshire design guides
- Accident cluster site list
- Local cycling and walking infrastructure plans technical guidance (April 2017)

CONTRACT DOCUMENTATION

- Herefordshire Council Highways & Public Realm Contract

BBLP DOCUMENTATION

- Surfacing Operations – Procedure: OPS-PR-2512-LP – (Draft document for review/inclusion in BBLP BMS / Herefordshire Contract)

Additional specific definitions will be agreed as part of each project proposal.

APPENDIX C: DEFINITIONS

ATM	Active Travel Measures
BBLP	Balfour Beatty Living Places
CDM	Construction Design & Management
DfT	Department for Transport
DMRB	Design Manual for Roads and Bridges
ES	Environmental Statement
HC	Herefordshire Council
LCWIP	Local Cycling & Walking Infrastructure Plan
LTP	Local Transport Plan
LDF	Local Development Framework
KPI	Key Performance Indicator

NRSWA New Roads and Street Works Act

OPI Operational Performance Indicator

RSA Road Safety Audit

SMOTS Sustainable Method of Travel to School Strategy

TRO Traffic Regulation Order

Additional specific definitions will be agreed as part of each project proposal.

APPENDIX D: PROGRAMME OF WORKS:

A summary programme for all scheme work delivered in this annex will be provided during development of target cost proposals.

CAPITAL ACTIVITIES

Minor Safety Improvements

Table 1: Minor Safety Improvements

Road Name / Location	Treatment
Ridgeway Cross	Completion of 2020/21 options report (traffic survey dependant on relaxation of C19 restrictions)
Accident Cluster Sites	As listed in report pending April 21

Table 2: Loss of Control Sites

Road Name / Location	Treatment
Schemes generated from 'Confirm' & is a live active programme & will be reviewed on a quarterly basis	

Network Surfacing Programme

Key	
	Budget allocated
	Aspirational scheme pending budget availability

Table 1: Patch Pave Programme

Road Name / Location	Treatment
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Asperton	
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Table 2: CAT2C high priority

Road Name / Location	Treatment

Table 3: Safety Barrier Repairs

Road Name / Location	Treatment
Burcott Rd Junction w/ C1127 Canal Side	
B4347 Kentchurch	
Cusop Hill	
Cusop (Near Hay on Wye)	
Chances Pitch	
Hampton Park Road	
Burcott Rd at the junction w/ C1127 end of Railway Bridge	
Ledbury Rail VRS	
Massington Rail Bridge SW	
Llangua Bridge Upstream West	
Llangua Bridge Downstream East	
Jays Green NW	
Jays Green SW	
Fromes Hill Section 1 - SW	
Fromes Hill Section 2 - NE	
Kynaston	
C1196 Junction	
Stretton Sugwas Village	
Rhydspence Inn North	
Bridge Sollers SE	
Bromyard Tenbury Rd	
Ledbury Bypass	
Aldi Hereford	
Little Marcle Road S	
Transco Barrier	
Brampton Road, Ross	
Fiddlers' Green Retaining Wall	
Nr Withies Rd Junction, Withington	

Table 4: Lining & Road Marking repairs

Table 5: Surface Dressing

Road Name / Location	Treatment
A417 Stretton Grandison	Patch & Surface Dress
A4110 Jack Stewart Bend to Bush Bank	Patch & Surface Dress
A4111 A4112 towards Eardisley	Patch & Surface Dress
B4224 A40 to County Boundary, Lea	Patch & Surface Dress
B4222 B4224 to A40, Lea	Patch & Surface Dress
C1203 Craswall	Patch & Surface Dress
C1203 Craswall	Patch & Surface Dress
C1203 Great Blackhill Farm to Little Cwm Farm	Patch & Surface Dress
C1208 B4348 to Millbrooke Farm, Dorstone	Patch & Surface Dress
C1200 Church Road, Clehonger	Patch & Surface Dress
C1218 Hunthouse Lane, Cloddock	Patch & Surface Dress
C1162 Ham Green, Mathon	Patch & Surface Dress
C1181 Evedine Lane, Colwall	Patch & Surface Dress
C1248 A466 to Gwenherrion Cross, Welsh Newton	Patch & Surface Dress
C1261 Hoarwithy Village	Patch & Surface Dress
C1062 B4214 to Upper Wacton	Patch & Surface Dress
C1261 C1261 Aconbury Court through Little Dewchurch Village	Patch & Surface Dress
22/23 Prepatching	

Active Travel

Table 1: Pedestrian / Footway Improvements

Road Name / Location	Treatment
Schemes identified from 'HAM' funding list within budget available	

Network Resilience Schemes

Table 1 : Network Resilience

Road Name / Location	
Wilton Road	
How Caple	
Symonds Yat East	
Symonds Yat BOAT Homestead	
Garway	
Stockley	
Jubilee Drive	
Huntingdon Lane	
Abbey Dore	
Storm Bella/ Christophe repairs	
Storm Bella / Christophe Repairs	

HAM

Table 1: Footways

Reference	SECTION
LEDBURY IND ESTATE :C1308 :U67256	LEDBURY IND ESTATE
WHITBOURNE SCHOOL RD :U65026 :C1066	WHITBOURNE SCHOOL ROAD BROMYARD
ROSS ROAD S/R SPEED LIMIT A4137	ROSS ROAD S/R
ROSS ROAD S/R SPEED LIMIT A4137	ROSS ROAD S/R
ROSS ROAD S/R B4164 SPEED LIMIT	ROSS ROAD S/R
B4234 SPEEDLIMIC1274	B4234 SPEEDLIMIT - C1274
WILLOWBROOK :U70635 :CDS	WILLOWBROOK
RIDGEWAY CRESCENT	RIDGEWAY CRESCENT
FX465/182	A465
FX465/120	A465
FX465/182	A465
FX465/116	A465
FX465/182	A465
FX465/182	A465
FX1212/11	C1212
FX1127/123	C1127

FX81216/114	U81216
FX81216/115	U81216
FX465/121	A465
FX4103/151	A4103
F91001/125	F91001/125
MERRIVALE CRESCENT :U70720 :U70729	MERRIVALE CRESCENT ROSS
BLAKE AVENUE	BLAKE AVENUE
SUSSEX AVENUE B4234 : CDS	SUSSEX AVENUE
ALTON RD IND ESTATE :U70723 :CDS	ALTON RD IND ESTATE
KENT AVENUE B4234 : C1279	KENT AVENUE
ALTON RD IND ESTATE :U70723 :CDS	ALTON RD IND ESTATE
MERRIVALE ROAD :U70729 :U70720	MERRIVALE ROAD ROSS
EASTFIELD ROAD :B4234 :U70717	EASTFIELD ROAD
MERRIVALE LANE :C1279 :U70727	MERRIVALE LANE ROSS
EASTFIELD ROAD :B4234 :U70717	EASTFIELD ROAD
KENT AVENUE B4234 : C1279	KENT AVENUE
SUSSEX AVENUE B4234 CDS	SUSSEX AVENUE
B4260 S LIM 30 B4234	B4260 SPEED LIMIT - B4234
B4260 S LIM 30 B4234	B4260 SPEED LIMIT - B4235
B4164 Junc - Roundabout Whitchurch	B4164 Junc - Roundabout Whitchurch
SCHOOL LANE A40 CDSS	SCHOOL LANE
WESTON UNDER PENYARD TO DERESTRICTION SIGN	WESTON UNDER PENYARD TO DERESTRICTION SIGN
WESTON UNDER PENYARD TO DERESTRICTION SIGN	WESTON UNDER PENYARD TO DERESTRICTION SIGN
FX80111/13	U80111
FX81015/12	U81015
FX81015/12	U81015
BIDDULPH WAY A449 CDS	BIDDULPH WAY
FX465/129	A465
FX80309/18	U80309
QUEEN WAY LEDBURY :U67211 :U67215	QUEEN WAY LEDBURY
QUEEN WAY LEDBURY :U67211 :U67215	QUEEN WAY LEDBURY
BIDDULPH WAY A449 CDS	BIDDULPH WAY LEDBURY
CALLOW END U67201 CDS	CALLOW END
KNAPP RIDGE LEDBURY :U67005 :CDS	KNAPP RIDGE LEDBURY
BANNUT TREE BROMYARD:U65416 :CDS	BANNUT TREE BROMYARD
HUNTINGDON CRADLEY :U65621 :CDSS	HUNTINGDON CRADLEY
BALLHURST ROAD B4214 CDSS	BALLHURST ROAD
LODON AVENUE BROM :U65423 :U65419	LODON AVENUE BROMYARD

F67202/115	F67202/115
A417 - C1308	A417 - C1308
WHITCHURCH VILLAGE B4164 C1250	WHITCHURCH VILLAGE
FX465/178	A465
FX465/182	A465
FX93222/13	U93222
ARKWRIGHT CLOSE A44 CDS	ARKWRIGHT CLOSE
B4222 TO B4224	B4222 TO B4224
EASTFIELD ROAD :B4234 :U70717	EASTFIELD ROAD
MERRIVALE CRESCENT :U70720 :U70729	MERRIVALE CRESCENT ROSS
KENT AVENUE B4234 : C1279	KENT AVENUE ROSS
MERRIVALE CRESCENT :U70720 :U70729	MERRIVALE CRESCENT ROSS
MILL ORCHARD U70208 CDS	MILL ORCHARD
C1274 30mph - B4234	C1274 30mph - B4234
WOODLEIGH RD LEDBURY:C1308 :B4216	WOODLEIGH ROAD LEDBURY
VALLEY VIEW C1062 CDS	VALLEY VIEW
VALLEY VIEW C1062 CDS	VALLEY VIEW
WOODFIELD RD LEDBURY:U67233 :CDSS	WOODFIELD ROAD LEDBURY
FIELD DRIVE LEDBURY :U67206 :CDS	FIELD DRIVE LEDBURY
WOODFIELD RD LEDBURY:U67233 :CDSS	WOODFIELD ROAD LEDBURY
VALLEY VIEW C1062 CDS	VALLEY VIEW
BROCKHILL RD COLWALL C1165 : TR	BROCKHILL ROAD COLWALL
MABELS FURLONG LEDB :A449 :CDS	MABELS FURLONG LEDBURY
QUEEN WAY LEDBURY :U67211 :U67215	QUEEN WAY LEDBURY
ORLIN RD COLWALL :U66606:CDS	ORLIN ROAD COLWALL
ROBINSONS MEADOW LED:U67261 :CDS	ROBINSONS MEADOW LEDBURY
CHURCHILL MEADOW U67217 CDS	CHURCHILL MEADOW
HOMEND CRES LEDBURY:U67005 :U67208	HOMEND CRESENT LEDBURY
HUNTINGDON CRADLEY :U65621 :CDSS	HUNTINGDON CRADLEY
HUNTINGDON CRADLEY :U65621 :CDSS	HUNTINGDON CRADLEY
VICTORIA RD LEDBURY:U67218 :C1308	VICTORIA RD LEDBURY
HOMEND CRES LEDBURY:U67005 :U67208	HOMEND CRESENT LEDBURY
HOMEND CRES LEDBURY:U67005 :U67208	HOMEND CRESENT LEDBURY
WHITBOURNE SCHOOL RD :U65026 :C1066	WHITBOURNE SCHOOL RD BROMAYRD
LITTLE MARCLE RD LED:C1308 :B4216	LITTLE MARCLE RD LEDBURY
LEDBURY IND ESTATE :U67256 :U67256	LEDBURY IND ESTATE

ROBINSONS MEADOW LED:U67261 :CDS	ROBINSONS MEADOW LEDBURY
CLOVER TERRACE BROM:A44 :U65416	CLOVER TERRACE BROMYARD
LITTLE MARCLE RD LED:C1308 :B4216	LITTLE MARCLE RD LEDBURY
HIGHWELL AVE BROM:U65403 :CDS	HIGHWELL AVE BROMYARD
MASEFIELD CLOSE C1308 : U67210	MASEFIELD CLOSE
BANNUT TREE BROMYARD:U65416 :CDS	BANNUT TREE BROMYARD
MARGARET RD LEDBURY :U67211 :U67213	MARGARET RD LEDBURY
CHURCH LANE BROMYARD:B4203 :TR	CHURCH LANE BROMYARD
RUSSETT CL LEDBURY :U67246 :CDSS	RUSSETT CLOSE LEDBURY
VICTORIA RD LEDBURY:U67218 :C1308	VICTORIA RD LEDBURY
THE LANGLAND A438 U67201	THE LANGLAND
WOODLEIGH RD LEDBURY:C1308 :B4216	WOODLEIGH ROAD LEDBURY
WOODLEIGH RD LEDBURY:C1308 :B4216	WOODLEIGH ROAD LEDBURY
VICTORIA RD LEDBURY:U67218 :C1308	VICTORIA RD LEDBURY
WINSLOW ROAD A44 B4214	WINSLOW ROAD BROMYARD
HUNTINGDON CRADLEY :U65632 :CDS	HUNTINGDON CRADLEY
HIGHWELL AVE BROM:U65403 :CDS	HIGHWELL AVE BROMYARD
BROCKHILL RD COLWALL C1165 : TR	BROCKHILL ROAD COLWALL
U67302/105	U67302/105
BROCKHILL RD COLWALL C1165 : TR	BROCKHILL ROAD COLWALL
U67276/105	U67276/105
OAKLANDS DRIVE B4216 CDSS	OAKLANDS DRIVE
BIDDULPH WAY A449 CDS	BIDDULPH WAY LEDBURY
ORCHARD LANE U67214 A438	ORCHARD LANE
BANNUT TREE BROMYARD:U65416 :CDS	BANNUT TREE BROMYARD
RUSSETT CL LEDBURY :U67246 :CDSS	RUSSETT CLOSE LEDBURY
BELLE ORCH LEDBURY :U67211 :A438	BELLE ORCHARD LEDBURY
ROBINSONS MEADOW LED:U67261 :CDS	ROBINSONS MEADOW LEDBURY
CHURCHILL MEADOW U67259 CDS	CHURCHILL MEADOW
CHURCHILL MEADOW U67259 CDS	CHURCHILL MEADOW
CHURCHILL MEADOW U67217 CDS	CHURCHILL MEADOW
WINSTON CLOSE LEDB :U67236 :CDS	WINSTON CLOSE LEDBURY
FERNDOWN CLOSE U67233 CDS	FERNDOWN CLOSE
PUMP STREET A44 B4203	PUMP STREET BROMYARD
WINSLOW ROAD A44 B4214	WINSLOW ROAD BROMYARD

WINSLOW ROAD A44 B4214	WINSLOW ROAD BROMYARD
BELLE ORCH LEDBURY :U67211 :A438	BELLE ORCHARD LEDBURY
HUNTINGDON CRADLEY :U65632 :CDS	HUNTINGDON CRADLEY
LONG ACRES C1308 U67214	LONG ACRES
CHAPEL LN CRADLEY :B4220 :S/L	CHAPEL LANE CRADLEY
F67202/115	F67202/115
LOWER THORN BROMYARD:B4214 :CDSS	LOWER THORN BROMYARD
ROBINSONS MEADOW LED:U67211 :CDSS	ROBINSONS MEADOW LEDBURY
U65452/105	U65452/105
U67012/105	U67012/105
B4234 SPEEDLIMIC1276	B4234 SPEED LIMIT - C1278
B4234 SPEEDLIMIC1276	B4234 SPEED LIMIT - C1277
WILTON LANE A40 U71026	WILTON LANE ROSS
B4234 SPEEDLIMIC1276	B4234 SPEED LIMIT - C1276
FX4348/142	B4348
FX4224/117	B4224
FX465/18	A465
FX1095/151	U93680 MATILDA CLOSE LEOMINSTER
FX80162/12	U80162 QUEENS WOOD DRIVE HEREFORD
FX80322/16	U81214 COLERIDGE CRESCENT HEREFORD
FX81227/11	U81227
FX4348/140	B4348
FX465/115	A465
FX465/18	A465
FX1221/11	C1221
FX465/125	A465
FX1095/151	U93672 GLOVER ROAD LEOMINSTER
FX80322/12	U81030 SANDOWN DRIVE HEREFORD
FX80329/14	U73018 ROMAN WAY
FX81030/15	U93652 SAND PIT LEOMINSTER
FX4348/143	B4348
FX80148/11	U80148 KNIGHTSWOOD HEREFORD
FX438/1120	U80323 QUEENSWAY HEREFORD

FX81227/11	U81227
FX4348/142	B4348
FX438/1121	U81010 MOSTYN STREET HEREFORD
FX4347/113	B4347
FX80323/13	U81217 MARLOWE DRIVE HEREFORD
FX81010/13	U81227 COTTERELL STREET HEREFORD
FX465/110	A465
FX4352/13	U80322 KINGSWAY HEREFORD
FX80322/15	U81045 BANGOR CLOSE HEREFORD
FX4347/116	B4347
FX81023/13	U81039 REDCAR AVENUE HEREFORD
FX81039/12	U93653 WESTFIELD WALK LEOMINSTER
FX81214/14	U93658 RIDGEMOOR ROAD LEOMINSTER
FX81217/11	U93609 SOUTHERN AVENUE LEOMINSTER
FX4349/115	U82015 BEATTIE AVENUE HEREFORD
FX465/179	U80322 KINGSWAY HEREFORD
FX465/110	A465
FX81045/11	U93658 RIDGEMOOR ROAD LEOMINSTER
FX465/110	A465
FX1319/17	U93671 BUCKFIELD ROAD LEOMINSTER
FX73018/12	U81227 COTTERELL STREET HEREFORD
FX93658/133	U93658
FX93653/11	U93653
FX44/144	A44
FX44/121	A44
FX93671/12	U93671
FX4361/153	B4361
FX4361/128	B4361
FX1044/15	C1044
FX1105/120	C1105
FX93658/134	U93658

Old Gore Cross

Table 1: Old Gore Cross

Scheme	
Old Gore Cross	Completion of signalised design & construction

APPENDIX E: SUPPORTING DOCUMENTATION

RISK REGISTER – To be provided in conjunction with development of Target cost

PART 2