

MUNICIPAL YEAR 2019/2020 REPORT NO. PL 19/189 P

ACTION TO BE TAKEN UNDER DELEGATED AUTHORITY

PORTFOLIO DECISION OF:
Cabinet Member for Environment

REPORT OF:
Director – Environment &
Operational Services

Agenda – Part:

Item KD5103

Subject:

**Borough Capital Programme 2020/21 –
Highways, Street Scene and Parks
Infrastructure.**

Approval of Programmes of Work

KD Num: 5103

Wards: All

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1. EXECUTIVE SUMMARY

This report provides details of schemes to be funded from the Borough Capital Programme 2020/21 for Highways, Street Scene and Parks. This comprises of programmes of works for highways, structures, flood prevention and playgrounds. It seeks the necessary financial and scheme approvals so that works can be undertaken.

2. RECOMMENDATIONS

That approval is given to the:

- 2.1 items of work and breakdown of funding, as shown in table 1 of this report and explained in paragraphs 4.1 to 4.13;
- 2.2 schedules of carriageway schemes contained in Appendix 1 of this report;
- 2.3 schedules of footway schemes contained in Appendix 2 of this report;

- 2.4 schedules of bridge maintenance schemes contained in Appendix 3 of this report;
- 2.5 schedules of watercourse schemes contained in Appendix 4 of this report,
- 2.6 schedules of flood risk management schemes contained in Appendix 5 of this report,
- 2.7 placing of orders through any existing relevant term contracts, or to invite and evaluate tenders/quotations and, where suitable tenders/ quotations are received, to award contracts for the works as appropriate.
- 2.8 That authority be given to the Director of Environment and Operational Services to amend the programme of works and funding allocations within the approved budgets as necessary for operational reasons.
- 2.9 That authority be given to the Head of Highway Services to adjust the approved estimated costs of individual schemes as a result of progressing the detailed designs, subject to costs being contained within the overall agreed programme allocations and to reporting of revised costs to the Director of Environment and Operational Services on a quarterly basis.

BACKGROUND

- 3.1 Cabinet, at its meeting on 28th January 2020, approved capital budgets for 2020/21 for the following: -
 - £6.45m for highways and street scene
 - £250k for match funding for flood risk management projects
 - £200k for bridge renewal projects
 - £200k for play areas and paths in parks
 - £80k for alley-gating
- 3.2 These allocations are also contained within the 10 year Capital Strategy and Capital Programme approved by Cabinet on 12th February 2020.
- 3.3 Cabinet also delegated authority to the Cabinet Member for Environment to approve programmes and schemes within the approved allocation for 2020/21.
- 3.4 At its meeting on 26th February 2019, Council confirmed the 2020/21 budget and 2020/21 to 2024/25 Medium Term Financial Plan.
- 3.5 A key recommendation of The Potholes Review – Prevention and a Better Cure, published in 2012, is that local highway authorities should adopt the principle that ‘prevention is better than cure’ in determining

the balance between structural, preventative and reactive maintenance activities in order to improve the resilience of the highway network and minimise the occurrence of potholes in the future. This is reinforced by the Well Maintained Highway Infrastructure Assets: A Code of Practice, which came into force in October 2018 and which all local highway authorities are expected to follow.

- 3.6 This portfolio report proposes, and seeks approval, to implement specific schemes in accordance with the funding identified against programme items shown in table 1 below and to place orders/award contracts for the works as appropriate.

Item Description	Allocation (£000)
Carriageways- Renewal / Resurfacing Programme	£2,450
Carriageways – Defect Repairs	£455
Footways – Renewal / Resurfacing Programme	£1,300
Footways – Defect Repairs	£1,360
Bridge Maintenance	£350
Watercourses	£200
Verge and Shrub Beds	£50
Highway Trees	£150
Street Nameplates	£25
Minor Highway Improvements	£110
Bridge Renewal Projects	£200
Flood Risk Management Projects	£250
Playgrounds and Parks Infrastructure	£200
Alley Gating	£80
Total	£7,180

Table 1

- 3.7 The planned maintenance of roads and pavements is prioritised for treatment, based on condition surveys and safety inspection feedback. They are those at such a state of deterioration which will lead to increased reactive maintenance and a higher risk of failure without planned maintenance intervention.
- 3.8 The planned maintenance of carriageways and footways will be undertaken in accordance with the principles set out in the Highway Maintenance Plan. The most appropriate treatments will be used in all improvements and maintenance works across all highway assets in

accordance with best practice, asset management principles and streetscape guidance.

- 3.9 During 2020/21 it is anticipated that a similar level of statutory utility works will be undertaken across the borough with the mains replacement programmes by Thames Water and National Grid Gas continuing across the borough. In addition, significant projects associated with Cycle Enfield will continue and increased building developments requiring new services and infrastructure upgrades. Effective coordination between all highway and utility works is a crucial aspect of programme delivery.

4. DETAILS OF ALLOCATIONS WITHIN THE CAPITAL PROGRAMME

- 4.1 Carriageways (£2,905,000): This allocation allows for the continuation of the Council's planned carriageway renewal/resurfacing programme (£2,450,000) and carriageway defect repairs (£455,000) to maintain and improve the condition of Enfield's roads. The carriageway schemes identified as being of highest priority for planned maintenance treatment during 2020/21 are listed in Appendix 1, table 1. Table 2 contains a list of reserve / future schemes which will be substituted for the programmed schemes if, for any reason, a scheme needs to be postponed for network management reasons. Additional schemes will also be implemented from the reserve list if scheme outturn costs result in savings within the main programme. In addition to the main schemes identified in Appendix 1, an allocation for partial resurfacing has been included, which allows for appropriate treatments to be undertaken at specific locations or short sections of resurfacing in order to target the worst areas of carriageway where treatment of the whole length of a longer road cannot be justified. This allows a cost effective approach to be taken, based on sound asset management principles, whereby specific defective lengths of carriageways are targeted.
- 4.2 Funding from TfL for planned maintenance works on principal roads has been substantially reduced in recent years and will continue for 2020/21. A prioritisation on a scheme by scheme basis will be undertaken London wide for available funding. Enfield has submitted a bid for two schemes as per TfL's guidance and the outcome of the bidding process is awaited. Any funding received from TfL will be in addition to the capital funding identified in table 1.
- 4.3 Footway Replacement Programme (£2,660,000). This allocation enables the continuation of the Council's planned footway renewal programme (£1,300,000) and footway defect repairs (£1,360,000) to maintain and improve the condition of the footways (both principal and non-principal roads), footpaths and rights of way network. Also included within this programme is the provision of dropped kerbs and tactile paving to improve ease of use. The footway schemes identified as being of highest priority for treatment during 2020/21 are listed in

Appendix 2, table 1 and include further phases to some larger schemes started in previous years. Appendix 2 also contains in table 2 a list of reserve schemes, which will be substituted for the programmed schemes if, for any reason a scheme needs to be postponed for network management reasons. Additional schemes will also be implemented from the reserve list if scheme outturn costs result in savings within the main programme.

- 4.4 Bridge Maintenance Programme (£350,000). This allocation enables the high priority structural repairs to be undertaken to bridges and culverts. This allocation also includes £85,000 for maintenance of bridges within the Council's parks. The schemes are identified in Table 1 of Appendix 3.
- 4.5 Watercourses (£200,000). These projects are listed in Appendix 4 and includes both feasibility studies and construction. In many cases the Council's capital funding attracts other contributions towards the total cost of the scheme and without the Council's capital input such funding would not be possible.
- 4.6 Verge and Shrub Beds (£50,000). This is for the continuation of a renewal programme for verges and shrub beds across the borough.
- 4.7 Highway Trees (£150,000). This will allow the continuation of a tree management programme for the removal of the deteriorating tree stock, and its replacement with young healthy trees. This is recognized as good arboricultural practice and, if maintained on an annual basis, will provide a constant stock of healthy, well maintained trees on the borough's highways, resulting in reduced maintenance costs and reduced potential claims against the borough.
- 4.8 Street Nameplates (£25,000). This allocation will allow for some renewal and improvement of the borough's street nameplates.
- 4.9 Minor Highway Improvements Programme (£110,000). This will be used to implement minor improvements where highway assets are continually being damaged and works are needed to implement schemes which deal with the cause of the problem. The allocation will also be used to improve the street scene through improvements to street furniture, signs and guard railing etc and on other enhancement initiatives such as a phased programme over several years to replace corroded sign posts.
- 4.10 Bridge Renewal Projects (£200,000). This will be used to undertake feasibility studies into a number of bridges and highway structures, which will require extensive repairs or replacement in future years, in order to ascertain the most appropriate course of action. Separate reports will be presented for individual projects in future years based on the outcome of this work. A priority list is identified in Table 2 of Appendix 3.

- 4.11 Flood Risk Management Projects (£250,000). The Council has a statutory duty to inspect and maintain reservoirs within the borough. A budget of £20k is therefore being provided for priority reservoir maintenance schemes within this allocation. £230k is being provided for flood alleviation projects including the Enfield Chase Restoration Project and other wetlands/SUDS projects, as listed in Appendix 5. These projects attract much larger levels of funding from external sources.
- 4.12 Playgrounds and Parks Infrastructure (£200,000). It is envisaged that this will fund essential repairs to playground equipment in various parks (£100,000) and replacement of fencing and repairs to paths (£100,000)
- 4.13 Alley Gating (£80,000). This will allow for completion of commitments to the alleyway gating programme which enhances community safety. There is strong evidence that alley gating reduces burglary and disorder and increases the perception of safety and satisfaction within the area of residence.

5. ALTERNATIVE OPTIONS CONSIDERED

Any alternative to sustained levels of capital funding would go against prevention and proper asset management principles, resulting in greater reactive maintenance and continued deterioration of the highway network and other associated assets, for which even greater capital funding will be required in the future.

6. REASONS FOR RECOMMENDATIONS

- 6.1 Confirmation of the capital budget, allocated to the items of work shown in table 1 will allow the Council to continue with its programme of maintaining the condition of its carriageways, footways and associated highway assets.
- 6.2 A sustained level of capital funding is essential to maintain the highway network and avoid potentially more costly maintenance in future years.
- 6.3 The Appendices identify specific schemes that have been prioritised for treatment. These schemes have been identified as having the highest urgency for treatment or where it is considered that intervention this year will prevent further and more costly deterioration in future years.

7. COMMENTS OF THE DIRECTOR OF FINANCE, RESOURCES AND CUSTOMER SERVICES, AND OTHER DEPARTMENTS

7.1 Financial Implications

On the 12th Feb 2020, Cabinet recommended that Council approve the 10-year Capital programme, which included £6.45m for highways and street scene, £250k for flood risk management projects, £200k for bridge renewal projects, £200k for play areas and paths in parks and £80k for alley-gating. These projects will be funded from borrowing and this report is seeking approval to allocate £7.2m so that works can be undertaken in 20/21.

7.2 Legal Implications

- 7.2.1 Section 111 of the Local Government Act 1972 gives a local authority power to do anything which is calculated to facilitate, or is conducive or incidental to, the discharge of any of its functions. The Council has various statutory obligations pertinent to the schedules of works described in this report including: the Highways Act 1980 which places a duty on the Council to maintain highway that is maintainable at public expense; a statutory duty of care to maintain play areas and outdoor exercise areas; and duties arising pursuant to the provisions of the Reservoirs Act 1975 and the Flood and Water Management Act 2010.
- 7.2.2 The Council also has a general power of competence in section 1(1) of the Localism Act 2011. This states that a local authority has the power to do anything that individuals generally may do provided it is not prohibited by legislation. The proposed works and services the Council wishes to provide within this report are in accordance with its powers.
- 7.2.3 The Council must ensure compliance with its Constitution. Where required, the Council shall carry out any procurement exercises in accordance with its Contract Procedure Rules and the Public Contracts Regulations 2015 (where procurements are caught by these Regulations) seeking assistance from the Council's Procurement & Commissioning Hub and Legal Services where required.
- 7.2.4 The Council must ensure value for money in accordance with the Best Value principles under the Local Government Act 1999.
- 7.2.5 As this is a Key Decision the Council must comply with the Key Decision procedure.
- 7.2.6 Any legal agreements (and ancillary documents where relevant) arising from the matters described in this report must be approved in advance of contract commencement by the Director of Law and Governance.
- 7.2.7 Under Section 15 (6) of the Local Government Act 2000, where any function may be discharged by a member of the Cabinet, the member may arrange for discharge of any such function by an officer of the

authority. The delegation must be in accordance with the Council's Constitution.

7.3 Property Implications

The proposed work programmes will help prevent the progressive deterioration of corporate assets which in addition will also help to reduce potential Corporate Liability and is seen as good asset management practice

8 KEY RISKS

<i>Risk Category</i>	<i>Comments/Mitigation</i>
Strategic	<p>Risk: Approved schemes do not maximise prevention of deterioration of the highway network.</p> <p>Mitigation: The schemes are the result of surveys, inspections and analysis to prioritise schemes and optimise treatment.</p>
Operational	<p>Risk: Disruption during works.</p> <p>Mitigation: Works are planned, and residents / businesses informed. Works will also be co-ordinated to take account of other work in the area.</p>
Financial	<p>Risk: Cost escalation / underspend</p> <p>Mitigation: Contracts in place to deliver the works at agreed rates. Reserve schemes identified to ensure full spend if some approved schemes cannot be programmed.</p>
Reputational	<p>Risk: Poor delivery of the programme</p> <p>Mitigation: Experienced contractors employed under direct supervision and management of council officers.</p>
Regulatory	<p>Risk: Failure to comply with statutory requirements.</p> <p>Mitigation: Experienced contractors used, ensuring compliance with all environmental, street works and health and safety requirements.</p>

9 IMPACT ON COUNCIL PRIORITIES – CREATING A LIFETIME OF OPPORTUNITIES IN ENFIELD

- 9.1 Enfield's highway network is probably the largest and most visible community asset for which Enfield is responsible. It is used daily by the majority of people in Enfield and keeping it in good condition is fundamental to the economic, social and environmental well-being of the community. A well managed and maintained highway network is essential to:

- promote new growth and regeneration in the borough;
- to ensure the safety of our highway users, whether vehicular traffic or pedestrian traffic;
- to maintain and improve customer satisfaction with the Council (previous Mori Polls have demonstrated that well maintained highways rank highly in what residents feel is most important to them);
- reduce the potential for complaints and for third party liability claims;
- to shape the character and quality of a local area (eg by greening up areas, planting trees, incorporating sustainable drainage features etc);
- to comply with our legal obligations as set out in the Highways Act where we have a 'duty to maintain' the highway.

9.2 These benefits support all three of the Council's priorities –

Good homes in well-connected neighbourhoods

Sustain strong and healthy communities

Build our local economy to create a thriving place

10 EQUALITY IMPACT IMPLICATIONS

10.1 It is important to consider the needs of the diverse groups with protected characteristics when designing and delivering services or budgets so people can get fairer opportunities and equal access to services. An Equalities Impact Assessment has been undertaken and identified that the activities within this capital programme make a significant contribution to improving access to the highway for different types of users. Where appropriate, further Predictive Equalities Impact Assessments will be carried out for specific schemes to ensure compliance to the Equalities Act 2010

10.2 Planned maintenance also has social and qualitative benefits. Deterioration of facilities for pedestrians and cyclists on local roads is likely to increase the level of risk and some groups may be adversely impacted by a reduction in maintenance that affects visual amenity and environmental quality.

11 PERFORMANCE MANAGEMENT IMPLICATIONS

The delivery of these works will be managed from inception to completion in accordance with the Council's processes for programme and project management. The contractor's delivery will be managed

through appropriate contract monitoring and management arrangements.

12 HEALTH AND SAFETY IMPLICATIONS

Enfield has a duty under s41 of the Highways Act to maintain a safe and usable highway for all users. Having a sustained programme of highway maintenance is an essential part of the overall maintenance strategy. Surveys and prioritisation models ensure that those schemes in greatest need are treated to ensure acceptable levels of safety across all asset groups, where neglect could lead to significant consequences. The consequences of potholes and paving trips are widely reported whereas the potential safety implications associated with the management of trees or bridges can be particularly catastrophic.

13. PUBLIC HEALTH IMPLICATIONS

There is increasing evidence that the public realm has a profound effect on behaviour and lifestyle influencing how people travel, how much time they wish to spend in the public realm and how they feel about where they live. How these budgets are spent will therefore have a significant effect on the health of the borough.

Appendix 1

Carriageways Programme 2020/21 (Allocation for Planned Maintenance: £2,450,000)

Table 1: Proposed Schemes

Road Name	Extent (Whole road unless otherwise stated)	Area (m2)	Estimated Cost
Cadogan Gardens		1412	£31,700
Monks Close		1300	£29,250
Crescent Road N9		1450	£79,750
Old Park View		2910	£65,500
Pickets Lock Lane	Meridian Way to Montagu Rd	4643	£146,250
Eastbury Avenue		1425	£32,000
Newdales Close		870	£19,500
Avondale Road N13		900	£49,500
Ashley Gardens N13		1350	£74,500
Arnos Road N11		2250	£63,250
Wickham Close EN1		750	£21,000
Ringwood Way N21		3450	£97,000
Conway Gardens EN2		1060	£24,000
Woodend Gardens		800	£18,000
Kent Drive		2250	£22,500
Beechdale		2100	£115,500
Mayfield Road		1300	£72,050
Normans Way		900	£49,500
Lytton Avenue		1500	£34,500

New Park Avenue		4750	£107,000
Onslow Gardens		2600	£58,500
Kenilworth Crescent		2650	£59,500
Eversley Crescent		3700	£104,000
Chase Green Avenue		3150	£88,500
Raleigh Road		1770	£49,750
Lancaster Avenue	No. 18 to No. 56	2800	£78,750
Drayton Gardens		1700	£93,500
Kingsmead Avenue		1180	£33,250
Chase Side EN2	Windmill Hill – Chase Green Ave	2800	£81,000
Culloden Road		1840	£51,750
Wolverton Way		1275	£28,500
The Vinneries		650	£16,750
Suffolk Road		1600	£54,000
Partial Resurfacing			£500,000
TOTAL			£2,450,000

Table 2: Reserve Schemes 2020/21 / Forward Plan Schemes 2021/22

Road Name	Extent (Whole road unless otherwise stated)
Minchenden Crescent	Chandos Ave to Arnos Grove
Pine Close	
Adlington Close	
Broadway Mews	
Clifton Gardens	
Chiltern Dene	
St Paul's Rise	
Walsingham Road	
Newsholme Drive	
Picketts Lock Lane	No.26a to Eastern end
Doveridge Gardens	

Bouvier Road	
The Chine	
Westbury Road	
Illingworth Way	
Derwent road	
Aldbury Mews	
Rosemary Avenue N9	
Exeter Road N9	Monmouth Rd – Bounces Rd
Waterfall Close	
Hoppers Road	Fernleigh Rd – Compton Rd

Appendix 2

Footways Programme 2020/21 (Allocation for Planned Maintenance: £1,300,000)

Table 1 Proposed Schemes

Road Name	Extent	Area (m2)	Estimated Cost	Existing Surface Treatment	Proposed Surface Treatment
Bounces Road	Eldon Road to St Peter's Rd - North Side	200	£20,000	Paving	Asphalt
Bury St	From No.182 to 234 - South Side	500	£50,000	Paving	Asphalt
Bury St West	Front of Stag and Hounds – North Side	70	£7,000	Paving	Asphalt
Carpenter Gardens	Green Lanes to No.62 - Both Sides	500	£50,000	Paving	Asphalt
Carterhatch Lane	Myddelton Ave to Russell Rd – Both Sides	830	£83,000	Paving	Asphalt
Churchbury Lane	St Andrew's Rd to Fyfield Rd- South Side	180	£18,000	Paving	Asphalt
Enfield Road	Link Side to Bincote Rd - Both Sides	450	£45,000	Paving	Asphalt
Farndale Avenue	No.17 to 33 – North Side	260	£26,000	Paving	Asphalt
Galliard Road	Oaklands Avenue to 58A – East Side	330	£33,000	Paving	Asphalt
Green Dragon Lane	Green Lanes to Myddelton Gardens - South Side No.2 to No.56 - North Side	1200	£120,000	Paving	Asphalt

Green Road	De Bohun School Playground Entrance to Bramley Sprots Ground Entrance - West Side	430	£43,000	Paving	Asphalt
Hyde Park Gardens	Entire Road	280	£28,000	Paving	Asphalt
Hydethorpe Avenue	Hyde Way to Latymer All Saints School entrance- Both Sides	200	£20,000	Paving	Asphalt
Lodge Close	Entire Road	340	£34,000	Paving	Asphalt
Orchardleigh Avenue	Entire Road	700	£70,000	Paving	Asphalt
Queen Elizabeth Drive	No.52 to No.80 - Both Sides - Phase 3	730	£73,000	Paving	Asphalt
Rosemary Ave-Westminster Rd	Either side of junction	60	£6,000	Paving	Asphalt
St Peter's Road	From No.88A to 102 - Both Sides	190	£19,000	Paving	Asphalt
Station Road	No.3 to King's Avenue & Hazelgreen Close to Radcliffe Rd – Both Sides	690	£69,000	Paving	Asphalt
Tenby Rd	Entire Road	350	£35,000	Paving	Asphalt
The Alders	Wades Hill to No.23 - Both Sides	570	£57,000	Paving	Asphalt
The Bourne	Opp Tudor Way to No.38 - South Side	700	£70,000	Paving	Asphalt
The Coppice	Old Park Road South to No.18 – South Side & No.13 – North Side	180	£18,000	Paving	Asphalt
The Coppice	No.28 to No.36 – South Side	130	£13,000	Paving	Asphalt
The Lonning/Winnington Road	No.2 to 14 Winnington Road & No.48 to 60 The Loning – South Side	530	£53,000	Paving	Asphalt
The Ridgeway	No.101 to Hansart Way - East Side	290	£29,000	Paving	Asphalt
Tottenham Road	Princess Ave to Beale Close - North Side	500	£50,000	Paving	Asphalt
Victoria Road	Park Lane to Pycroft Way - East Side	430	£43,000	Paving	Asphalt
Windmill Rd	22 to Henley Rd – East Side	280	£28,000	Paving	Asphalt
Windsor Road	Larmans Rd to end - Phase 1 - West Side	700	£70,000	Paving	Asphalt
Pedestrian Dropped Kerbs	Various		£15,000		

Table 2 Reserve Schemes

Road	Extent	Area (m2)	Estimated Cost	Existing Surface Treatment	Proposed Surface Treatment
Bounces Road	Exeter Rd to Cornwallis Rd - South	800	£80,000	Paving	Asphalt

	Side				
Enfield Road	Enfield Rd - No.134 to No.146 - Service Rd	220	£22,000	Paving	Asphalt
Enfield Road	Enfield Rd - No.16 to No.80 - Service Rd	230	£23,000	Paving	Asphalt
Fox Lane	Grovelands Rd to Lakeside Rd - Both Sides	520	£52,000	Paving	Asphalt
Galliard Rd	No.10 to No.36 – East Side	300	£30,000	Paving	Asphalt
Nelson Road	Entire Road	210	£21,000	Paving	Asphalt
Queen Elizabeth Drive	No.80 to No.106 - Both Sides - Phase 4	880	£88,000	Paving	Asphalt
Station Road	Radcliffe Road to Ringwood Way – Both Sides - Phase 3	400	£40,000	Paving	Asphalt
The Lonning/Winnington Road	No.2 to 14 Winnington Road & No.48 to 60 The Loning – South Side	530	£53,000	Paving	Asphalt
Baker Street	No.103a to 119 – East Side	300	£30,000	Paving	Asphalt
Galliard Road	Park Entrance to No.34 - East Side	435	£43,500	Paving	Asphalt

Appendix 3

**Table 1. Bridge Maintenance Programme 2020/21
(Allocation for Planned Maintenance: £350,000)**

Project	Estimated Cost	Comments
LBE 125 Whittington Road Bridge	£65,000	Design for bridge replacement
LBE 115 The Chine Road Bridge	£22,000	Parapet beam painting and revetment wall repairs
LBE 089 Firs Lane Bridge	£17,000	Concrete Beams Repairs
LBE C24-04 Knights Lane Corner Culvert	£12,000	Concrete Repairs & access improvements
LBE C11-01 Knights Lane Culvert	£10,000	Concrete Repairs
LBE 135 Mollison Avenue Bridge	£10,000	Special investigation of water seepage at SW corner
LBE 133 Mollison Avenue Bridge	£16,000	Special investigation of distorted bearings
LBE 071 Barrowell Green Bridge	£6,000	Special investigation (hammer tapping)
LBE 056 Lea Valley Road	£17,000	Concrete Repairs to main beams & abutments

LBE 058 Mollison Avenue Solar Way Piled Road	£12,000	Special investigation of possible damage of foundations & installation of demarcation posts
LBE 055 Lea Valley Road Bridge	£16,000	Special investigation of bearings
LBE 055 Lea Valley Road Bridge	£28,000	Re-paint main beams particularly at both ends
General Maintenance	£34,000	
Parks Bridge Inspections	£25,000	Bridge inspections.
LBE 838 Hillyfields Footbridge replacement project. Started in 2019, costs split over two years	£38,000	Bridge contract awarded last year.
LBE 880 Embankment stabilisation. Whitewebbs Park	£11,000	Essential works required to protect bridge foundations.
LBE 926 Embankment stabilisation Whitewebbs Park	£11,000	Essential works required to protect bridge foundations.

**Table 2. Bridge Renewal Programme 2020/21
(Allocation for bridge renewal projects: £200,000)**

Investigation to ascertain appropriate treatment options

Project	Estimated Cost	Comments
LBE 050 Lea Valley Road	£24,500	Water seepage, expansion joints & Deteriorated abutments & intermediate piers
LBE 074 Bullsmore Lane	£19,500	Bridge Replacement
LBE 904 Fox Lane Footbridge	£19,500	Footbridge Removal
LBE 914 Bourne Hill Footbridge	£19,500	Footbridge Removal - Proposal to decommission bridge (est £3m)
LBE 079 Cattlegate Road Bridge North	£19,500	Bridge Replacement
LBE 039 Kings Arms Bridge	£19,500	Bridge Replacement
LBE 089 Firs Lane Bridge	£19,500	Bridge Replacement
LBE 038 Deadmans Bridge	£19,500	Water seepage & bridge replacement thereafter
LBE 098 Melville Gardens Bridge	£19,500	Bridge Replacement
Bridport Road Retaining Walls (North and South)	£19,500	Retaining Walls Replacement

Appendix 4

Watercourses Programme 2020/21 (Allocation for Planned Maintenance: £200,000)

Project	Stage	Estimated Cost	Comments
Enfield Town FAS	Construction	£50,000	Required to support Enfield Town FAS (£167k EA funding)
Salmons Brook NFM	Construction	£50,000	Required to support SBNFM project (£52k TRFCC funding)
Albany Park River Restoration and FAS	Construction	£50,000	Required to support overall project (£346k GLA funding, £377k EA funding)
Grovelands Park	Construction	£20,000	Required to improve existing watercourse/FAS
Forty Hall Weir Repairs	Feasibility/ construction	£20,000	Required to repair damaged weir
Pymmes Brook Constructed Wetlands	Feasibility	£10,000	Review feasibility of using CW to reduce fluvial flood risk in the Pymmes Brook catchment

Appendix 5

Flood Risk Management Projects 2020/21 (Allocation for Planned Maintenance: £250,000)

Project	Stage	Estimated Cost	Comments
Maintenance of reservoirs	Construction	£20,000.00	Essential works identified from reservoir inspections
Wetlands/SuDS TBC (potentially Woodland Way, Prince George Avenue, Oaklands Park Wetlands)	Construction	£80,000.00	Required to support match-funding from EA/GLA/Thames Water
Enfield Chase	Construction	£150,000.00	Required to support the

Restoration Project			Enfield Chase Restoration Project (£750k of GLA funding)
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