

Transport and Environment Committee

10.00am, Thursday, 1 March 2018

Road, Footway and Bridges Investment – Capital Programme for 2018/19

Item number	7.4
Report number	
Executive/routine	Executive
Wards	All Wards
Council Commitments	15 , 16 , 17 , 19

Executive Summary

This report seeks approval for the allocation of the Road, Footway, Street Lighting and Traffic Signals and Structures Capital budgets and programme of works for 2018/19.

The carriageway and footway schemes listed in this report were selected for capital investment using a scheme of prioritisation which uses condition assessment scores, prioritisation criteria and weightings.

The budget allocation and lists of maintenance schemes in this report aim to ensure that the condition of roads and footways improve, whilst fulfilling the objective that the prioritisation reflects and supports the Council's Local Transport Strategy objectives and, in particular, the Active Travel Action Plan.

Road structures assets are maintained in accordance with national standards and Government legislation. Excessively high maintenance costs are avoided, as far as possible, by undertaking regular condition inspections and prioritising required work.

Road, Footway and Bridges Investment – Capital Programme for 2018/19

1. Recommendations

- 1.1 It is recommended that the Transport and Environment Committee:
 - 1.1.1 notes the breakdown of the allocation of the capital budget for 2018/19 shown in [Appendix 1](#);
 - 1.1.2 approves the programme of proposed works for 2018/19, as detailed in section three of the report, and in Appendices [5](#), [6](#) and [7](#);
 - 1.1.3 approves the programme of proposed bridge works for 2018/19, as detailed in section three of this report, and in [Appendix 8](#);
 - 1.1.4 notes the use of external consultants to carry out Principal Bridge Inspections and design work as detailed in 3.39-3.49; and
 - 1.1.5 notes that a future report will be submitted to this Committee providing an overview of outstanding Infrastructure projects and investment.

2. Background

- 2.1 This report seeks approval for the proposed capital investment programme for road and footway improvements for 2018/19.
- 2.2 The capital budget of £14.805m for 2018/19 was agreed as part of the capital investment programme, in February 2018.
- 2.3 The report provides details of the Road and Footway Capital Investment Programme for 2018/19. The report also includes details of street lighting investment. This report proposes how the capital budget of £14.805m should be allocated across seven different work streams. These are: Carriageways and Footways, Street Lighting and Traffic Signals; Road Structures; Other Asset Management; Localities; Miscellaneous and Cycling Allocation. The Carriageway and Footways work accounts for £6.735m or 45% of the available funding. The Road Structures work accounts for £2.95m or 20% of the available funding. A scheme of prioritisation, approved by this Committee in [January 2016](#), is used to identify which projects should be included in this part of the programme.

- 2.4 A 10% budget commitment has been allocated for cycling improvements. This is in line with the Council commitment to allocate a percentage of the Transport budget to improve cycling facilities throughout Edinburgh.
- 2.5 The Council's carriageway and footway stock has a gross replacement cost of £2,284m. It is essential that the carriageways and footways are maintained to an acceptable standard. A new investment strategy for carriageways was agreed by this Committee in [October 2015](#), which will ensure improvements in the carriageway condition throughout the city.
- 2.6 The Council's Bridge Stock has a gross replacement cost of £1,340m. It is essential that these structures are inspected and adequately maintained to ensure that the road network can operate efficiently and safely.
- 2.7 Bridges are inspected at regular intervals and the work is prioritised based on these inspections. Structure Condition Indicators are calculated for the whole bridge and critical load bearing members, in line with national guidance, and a score is developed. These scores are used to help prioritise work.
- 2.8 It is necessary to present this report to Committee in March 2018 to ensure that the programme can start on time and comply with the Road Works Registration notice periods.

3. Main report

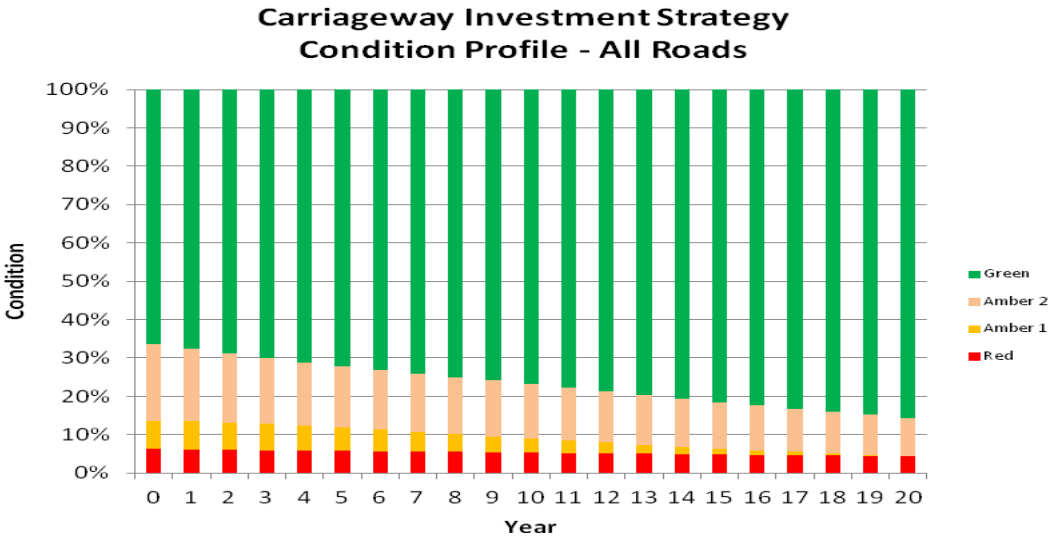
Capital Budget Provision 2017/18 – 2019/20

- 3.1 The current and projected capital allocation for Infrastructure, for 2017 to 2020 is shown in [Appendix 1](#).
- 3.2 Appendix 1 outlines how the proposed budget will be allocated across the eight elements in 2018/19.

Carriageway Investment

- 3.3 The carriageway and footway element of the capital programme is based on a scheme of prioritisation which uses condition assessment scores, prioritisation criteria and weightings to determine which projects should be prioritised for investment.
- 3.4 The condition of Edinburgh's roads is assessed annually as part of the Scottish Roads Maintenance Condition Survey (SRMCS), an independent survey of road conditions in all 32 Scottish local authorities. The survey provides each local authority with a Road Condition Index (RCI) which identifies the percentage of roads in need of maintenance.

- 3.5 The RCI consists of three categories of deterioration: Red, Amber 1 and Amber 2, with roads in the red category being in the worst condition. Roads in the Amber condition indicate that further investigation is required to establish if preventative treatment is required. Roads in the red category have deteriorated beyond preventative maintenance and will require more robust treatments in order to prolong its future.
- 3.6 As part of the modelling work for the Roads Asset Management Plan (RAMP), alternative scenarios for capital investment were developed. These scenarios were predicated on a more preventative approach, aimed at roads that are in the Amber condition categories. Investment on these roads require less expensive treatments (eg surface dressing, slurry sealing), which improve the condition of the carriageway or footway and delay the need for more expensive resurfacing or strengthening treatments. Owing to the cheaper cost of the treatments required on Amber condition roads, more roads can be treated each year. The chart below illustrates the impact of this preventative approach over a 20 year period, assuming levels of capital investment remain at current levels, with the percentage of roads requiring maintenance reducing to 14%.



- 3.7 The basis of this approach is to target investment into the categories of carriageway network, as shown in [Appendix 2](#), that require investment, to achieve an overall improvement in the condition of Edinburgh’s network. For example, the Unclassified and A Class roads contain the largest percentages of Red, Amber 1 and Amber 2. Therefore, the greatest percentage of investment needs to be targeted into these areas.
- 3.8 This preventative approach treats more roads within the Amber condition categories and less within the Red, thus significantly slowing their deterioration and negating the need for more robust, expensive treatments.

- 3.9 [Appendix 3](#) shows how funding will be distributed throughout the carriageway network in order to improve the overall condition of Edinburgh's carriageway condition.
- 3.10 The UK Pavement Management System (UKPMS) is the national standard for management systems for assessing the condition of the local road network and for planning the type of investment that is required.
- 3.11 The UKPMS is used for systematic collection and analysis of condition data, ie Scottish Road Maintenance Condition Survey. The UKPMS analyses specific types of defects ie cracking, texture, profile and rutting, to select which roads should be considered for preventative, resurfacing or strengthening treatments. [Appendix 4](#) shows the criteria used to determine the appropriate treatment required.
- 3.12 [Appendix 5](#) shows the carriageway schemes that have been prioritised for investment, using the new Investment Strategy.

Footway Investment

- 3.13 The footway element of the capital programme is based on a scheme of prioritisation which uses condition assessment scores, prioritisation criteria and footfall weightings to determine which projects should be prioritised for investment.
- 3.14 The prioritisation system for the capital programme is designed to ensure that the strategic road and footway network is maintained in line with the Local Transport Strategy and the Active Travel Action Plan.
- 3.15 It is proposed to maintain the allocation of £200k for Local Footways in 2018/19. This will allow resurfacing works to be carried out on rural and residential footways that would be unlikely to feature in a capital programme of works, due to their low prioritisation score.
- 3.16 It is proposed to treat local footways with surfacing procedures ie slurry sealing. This is a preventative treatment and will allow a far greater number of footways to be treated each year.
- 3.17 The programme of proposed carriageway and footway works is shown in [Appendix 6](#). Whilst the aim of the footway improvement schemes is to improve the surface condition, these schemes will also result in improved facilities for walking in Edinburgh's streets.

Co-ordination

- 3.18 Any proposed scheme on arterial routes or in the city centre will be considered by the City Wide Traffic Management Group to determine whether or not the works can be carried out and what conditions could be put in place (phasing, off peak working, etc) to minimise disruption.

Public Realm

- 3.19 The Roads and Footways Capital Programme also supports public realm projects identified by the Streetscape Delivery Group. A new Public Realm Strategy is being developed and will include procedures for prioritising investment in public realm which will be reported to a future Committee
- 3.20 A number of the carriageway and footway renewal schemes will contribute to public realm improvements, through use of high specification materials such as natural stone slabs and setts, as well as improvements in design and layout, utilising the Street Design Guidance.

Street Lighting and Traffic Signals

- 3.21 In common with many other authorities across the UK, Edinburgh has a large number of street lighting columns that are over 30 years old and require replacement. Where individual columns fail a structural test, they are replaced on a one for one basis. Where the number of columns requiring urgent replacement in any particular street exceeds 40%, it is more efficient and practical to renew the lighting stock of the whole street and this forms the basis of the street lighting programme. The test-failed street lighting columns are prioritised in the programme with the worst columns being replaced first. The budget for street lighting works in 2018/19 is £0.5m. The programme of Street Lighting works is shown in [Appendix 7](#).
- 3.22 On [27 October 2015](#), the Transport and Environment Committee approved, in principle, the business case for the roll out of Light Emitting Diode (LEDs) lanterns across the city and the report was referred to Council on [19 November 2015](#) where the prudential borrowing was approved.
- 3.23 [On 23 January 2018](#), the Finance and Resources Committee approved the award of the contract for these works.
- 3.24 The business case supported the roll out of 54,000 LED lanterns over a three-year programme, and the introduction of a Central Management System, at a total cost, including financing, of £40.132m. The forecast energy, Carbon Reduction Commitment and maintenance savings/cost avoidance over 20 years resulting from this project is £54.157m.
- 3.25 Work to roll out LED lanterns is programmed to start in August 2018.
- 3.26 Edinburgh's traffic signal assets are maintained by in-house staff with assistance from Siemens Intelligent Traffic Systems, the current maintenance contractor. Each asset is electrically and mechanically inspected on an annual basis with preventative maintenance taking place as part of the inspection process.

- 3.27 The average age of the traffic signals asset is in excess of 25 years and is prioritised for replacement using ten separate criteria, with higher weighting placed on age, condition and availability of pedestrian facilities.

Other Asset Management

- 3.28 It is proposed to invest £0.3m in other asset renewals. This programme of asset replacement or renewals is carried out in conjunction with footway schemes that are included in the carriageway and footway programme and involves the replacement of street furniture, street lighting and traffic signals. In the case of street lighting, where the lighting columns on a footway improvement scheme are more than 30 years old (ie exceeds their design life), it is more efficient to replace the lighting columns at the same time as the footway works.

Localities

- 3.29 All footway reconstruction schemes incorporate dropped crossings at all junction points, if not already existing. Further to this, an allocation of £20k is given to each Locality to install dropped crossings at various locations throughout the city on footpaths that are not included in the capital list of footway schemes.
- 3.30 It is proposed to allocate £180k for drainage repairs (approximately £45k per Locality). This will be used to repair failed gully tails and frames throughout Edinburgh.
- 3.31 In addition to the budget set aside for dropped kerbs and drainage improvements within Localities, a further element of the programme is top-sliced each year for the Neighbourhood Environment Programme (NEP) to enable Locality Managers to respond to the local issues identified by the Neighbourhood Partnerships. It is proposed to allocate £600k (£50k per Neighbourhood Partnership) in 2018/19.
- 3.32 It is proposed to allocate £240k for Bus Stop Maintenance. This will provide the Localities with £60k each to carry out extensive repairs in and around bus stops that have deteriorated as a result of the continuous, repetitive, wear.

Inspection, Design and Supervision

- 3.33 Inspection, design and supervision is a large element of work that is required when delivering the capital carriageway and footway schemes. It is proposed to allocate £1.10m from the carriageway and footway budget, for this work. The inspection, design and supervision budget will be closely monitored and, if the costs are lower than expected, then the funding will be re-allocated and used to bring forward additional carriageway and footway schemes.

- 3.34 The majority of the schemes selected for investment will be designed by Transport's in-house design teams. However, if required, external professional services may be procured to assist with the delivery of the capital investment programme. There are currently a number of vacant posts within the design team and staff retention has been an issue over the past two years. It is likely that consultants will have to be used to assist with the design process.

Contingencies

- 3.35 It is proposed to allocate £300k for contingencies in 2018/19. Contingencies are used to fund any emergency and unforeseen situations that arise throughout the year.
- 3.36 The contingencies budget will be closely monitored and, if contingencies or emergency works do not arise as the year progresses, then the funding will be re-allocated on a quarterly basis and used to bring forward additional carriageway and footway schemes.

Cycling Improvements

- 3.37 The Council has a commitment to allocate a percentage of the Transport revenue and capital budgets to improve cycling facilities throughout Edinburgh. This was introduced in 2012/13, when 5% was allocated with a commitment to increase this by 1% each year, up to 10%. 10% of capital budgets will be allocated for cycling related improvements in 2018/19.
- 3.38 The 10% budget commitment will enable the Council to deliver new cycling infrastructure, including the creation of links between existing off-road routes and upgrading the facilities that are available on-road.
- 3.39 The full detail of cycle improvements and spend has still to be determined for all of Transport Services. This may mean that funding is allocated from other areas within Transport and the full allocation of £1.305m is not required from this budget in order to achieve the 10% budget commitment from Transport. Once the allocation that will be taken from the Carriageway and Footway budget is known, this Committee will be updated.

Bridges

- 3.40 There are 474 bridges in the city with a span greater than 1.5m. This includes bridges, footbridges underpasses etc on the road network only. These bridges receive a General Inspection (GI) over a two-year cycle. This is a visual inspection from ground level of parts of the bridge that are readily accessible.
- 3.41 Now that funding has been made available, a Principal Bridge Inspection Programme has been developed and inspections have been undertaken. A Principal Bridge Inspection (PBI) is an inspection which entails the inspecting engineer being within touching distance of every part of the bridge. There may also be the need for intrusive inspections including testing of materials and specialist support such as divers, to inspect parts of the structure.

- 3.42 The Risk Based PBI Programme has been reviewed and more structures have been included and the frequency of inspection reduced to six years. There are 142 bridges in this programme and 43 bridges have now received a PBI.
- 3.43 From the GIs and PBIs, bridges are given scores based on their condition and individual parts of the structure requiring repair are highlighted. These scores are used to develop the programme of work and other factors such as volume of use, location, relationship with other parties and other work in the vicinity are also considered.
- 3.44 The scores for all bridges are totalled and averaged and this helps provide an indication of the condition of the Bridge Stock. The average indicator for the Bridge Stock in Edinburgh was 79.89 in 2016/17, placing Edinburgh 29th out of the 32 Scottish local authorities. There is also a concern that the score for Edinburgh may drop further now that funding is available to do more detailed inspections of the Bridge Stock.
- 3.45 There are 73.9 km of retaining walls with a retained height over 1.5m associated with the road and these are to receive a GI in 2018/19. The ownership of these walls has not been established. Scores will be calculated for retaining walls in a similar manner to bridges. There are insufficient internal resources to undertake the planned 24 number PBI'S and Retaining Wall GI's. Therefore, external professional services will be procured to undertake this work.
- 3.46 It was necessary to reprofile some of the identified work to be undertaken in 2017/18. This was due to internal resources needing to undertake reactive works particularly to North and Burnshot Bridges. This work will be carried forward into 2018/19. The work on St Mark's Bridge that was due to be carried out in 2017/18 has also been delayed and is now programmed to take place in the summer of 2018.
- 3.47 Design work has progressed in relation to North Bridge and this will be the subject of a separate report to this Committee.
- 3.48 All public utilities at Burnshot Bridge have been diverted to a newly constructed service bridge and the existing road bridge demolished. A new cycleway/footpath has been provided now that the bridge has been removed. The form of a new bridge has been identified and the design is now being progressed. Funding has been allocated in 2018/19 with further funding to be allocated in 2019/20. Construction of a new Burnshot Bridge will start in 2018/19.
- 3.49 The bridge stock was assessed to ensure that the load carrying capacity of bridges was not exceeded and it is now necessary to review these results. Accordingly, a programme has been developed to undertake the structural review of bridges which will be supported by the PBI programme. This review will take into consideration the current condition of bridges and if there have been any changes to the bridge usage.

- 3.50 [Appendix 8](#) details the proposed budget and Capital works for 2018/19. It will be necessary to appoint consultants to assist in the design of refurbishment works to Market Street and Great Junction Street bridges in order to achieve this programme.

Street Design Guidance

- 3.51 This Committee approved Edinburgh's new [Street Design Guidance](#) at its meeting on [25 August 2015](#). This Guidance sets out the City of Edinburgh Council's design expectations and aspirations for streets within the Council area.
- 3.52 The guidance will be embedded in the design process for all carriageway and footway schemes detailed in this report.

4. Measures of success

- 4.1 The assessment of the condition of the city's roads is measured annually by the Scottish Road Condition Measurement Survey (SRCMS). This survey shows the percentage of roads that should be considered for maintenance intervention. Edinburgh's Road Condition Index (RCI) has improved from 42.3% in 2005/6 to 36.4% in 2016/18. However, this is an increase from 34.6% in 2015/17. A continual gradual improvement in Edinburgh's RCI will be a measure of the success of the Roads Capital Programme.
- 4.2 The Road Asset Management Plan is being prepared which will, in time, result in a long term strategy for the maintenance of all Council owned infrastructure assets. Now that funding has been made available, Principal Bridge Inspections are being undertaken which will ensure bridges are in a safe condition and that maintenance funding can be better directed.

5. Financial impact

- 5.1 The cost of improvement works, listed in Appendices 2 and 3, will be funded from the approved capital allocation for roads and footway investment.
- 5.2 The report outlines total Infrastructure expenditure plans of £14.805m of infrastructure investment. If this expenditure were to be funded fully by borrowing, the overall loan charges associated with this expenditure over a 20-year period would be a principal amount of £14.805m and interest of £9.638m, resulting in a total cost of £24.443m based on a loans fund interest rate of 5.10%. The annual loan charges would be £1.222m.
- 5.3 The loan charges outlined above are allowed for within the current long term financial plan.

- 5.4 It should be noted that the Council's Capital Investment Programme is funded through a combination of General Capital Grant from the Scottish Government, Developers and Third-Party Contributions, capital receipts and borrowing. The borrowing required is carried out in line with the Council's approved Treasury Management Strategy and is provided for on an overall programme basis rather than for individual capital projects.
- 5.1 The loan charge estimates above are based on the assumption of borrowing in full for this capital project.

6. Risk, policy, compliance and governance impact

- 6.1 The recommendations in this report will improve the condition of the roads, footways and structures listed. The capital programme of works will be monitored on a monthly basis to reduce the risk of not delivering the schemes detailed in this report.
- 6.2 There are no significant compliance, governance or regulatory implications expected as a result of approving the recommendations in this report.

7. Equalities impact

- 7.1 A full impact assessment will be carried out on a scheme by scheme basis. The schemes recommended in this report for maintenance have been identified using the prioritisation method and will only require consultation with specific groups prior to the design being carried out.
- 7.2 The investment in the city's roads, footways, gullies and street lighting improves the accessibility and safety of the road and footway network and therefore has a positive impact for all users, particularly older people and those with a disability. All footway reconstruction schemes incorporate new dropped crossings at all junction points, if not already existing.

8. Sustainability impact

- 8.1 There is potential for positive impact on the environment by improving vehicle and bicycle ride quality on carriageway surfacing works and improved pedestrian passage on footway reconstruction schemes.
- 8.2 Street Lighting capital will continue to implement agreed programmes for the implementation of energy efficient lamps to reduce energy consumption and carbon footprint. The continuing use of extruded aluminium lighting columns provides a more sustainable solution when compared to previously used materials (steel and concrete).

- 8.3 The proposals in this report will increase carbon emissions as a result of the construction plant and materials that will be utilised during the works.
- 8.4 Adopting a proactive approach to inspection and maintenance will ensure that the road network is not compromised and will help to avoid excessively high costs associated with unplanned maintenance so enhancing economic wellbeing and promoting environmental stewardship.
- 8.5 Successful implementation of the Council's Active Travel Action Plan (ATAP) will produce positive environmental benefits. The 10% budget for cycling will assist in the delivery of the ATAP actions relating to cycling.

9. Consultation and engagement

- 9.1 The revised methodology for prioritising roads and footways for capital investment, agreed by the Transport, Infrastructure and Environment Committee in [November 2010](#), was the subject of extensive consultation with Neighbourhood Partnerships and interest groups. A review of these procedures was agreed by this Committee in [October 2013](#). A further review of these procedures was agreed by this Committee in [January 2016](#).
- 9.2 The revised timeline, also introduced in 2010, for the development of the annual capital programme allows time for consultation with Locality Roads Teams and builds in the ability for proposed schemes to be considered by Neighbourhood Partnerships.

10. Background reading/external references

- 10.1 [Carriageway and Footway Investment Strategy 2016](#)
- 10.2 [Road, Footway and Bridges Investment – Capital Programme for 2016/17](#)

Paul Lawrence

Executive Director of Place

Contact: Cliff Hutt, Service Manager - Infrastructure

E-mail: cliff.hutt@edinburgh.gov.uk | Tel: 0131 469 3751

11. Appendices

[Appendix 1](#) Capital Budget Allocation

[Appendix 2](#) Road Condition Index

[Appendix 3](#) Full Investment Strategy – Annual Options Report

[Appendix 4](#) SRMCS Defect Criteria for Treatment Types

[Appendix 5](#) Proposed Capital Carriageway Programme – April 2018 – March 2019

[Appendix 6](#) Proposed Capital Footway Programme – April 2018 – March 2019

[Appendix 7](#) Proposed Capital Street Lighting Programme – April 2018 – March 2019

[Appendix 8](#) Proposed Bridges Allocation and Programme – April 2018 – March 2019

Capital Budget Allocation

Current and Predicted Capital Allocation

	2017/18	2018/19	2019/20
£m	16.019	14.805	16.085

Proposed Budget Allocation for 2018/19

<u>Carriageways & Footways</u>	£m	
Budget for Carriageway Works	3.965	
Budget for Setted Carriageways	0.750	
Budget for Footway Works	1.820	
Budget for Local Footways	0.200	
TOTAL		-6.735
<u>Street Lighting & Traffic Signals</u>	£m	
Street Lighting	0.500	
Traffic Signals	0.400	
TOTAL		-0.900
<u>Road Structures</u>	£m	
TOTAL	2.950	-2.950
<u>Other Asset Management</u>	£m	
Asset replacement ¹	0.300	
TOTAL		-0.300
<u>Localities</u>	£m	
Drop crossings (£20,000 per Locality)	0.080	
Drainage improvements (£30,000 per Locality)	0.120	
NEP - (£50,000 per Partnership)	0.600	
Bus Stop Maintenance	0.240	
TOTAL		-1.040
<u>Miscellaneous</u>	£m	
Budget for Inspection, Design & Supervision costs, including TTRO's	1.100	
Contingencies	0.300	
TOTAL		-1.400
<u>Cycling Allocation</u>	£m	
10% Allocation	1.480	
TOTAL		-1.480
TOTAL SPEND		-14.805

¹ Other asset replacement within schemes i.e. footway schemes involving street lighting replacement of columns over 30 years old, street furniture, sign renewal etc.

Road Condition Index

The current RCI percentages for Edinburgh's carriageway network are:

Category	U-R	Length (m)	Width (m)	Area (sqm)	Red		Amber 1		Amber 2		Green	
					RCI %	Area (sqm)	RCI %	Area (sqm)	RCI %	Area (sqm)	RCI %	Area (sqm)
Principal (A) Roads	Urban	129000	10.6	1367400	4.22	57704	6.77	92573	18.52	253242	70.48	963744
	Rural	44000	9.6	422400	1.52	6420	3.35	14150	13.79	58249	81.34	343580
Classified (B) Roads	Urban	41000	9.9	405900	2.36	9579	5.14	20863	14.35	58247	78.16	317251
	Rural	12000	8.8	105600	1.82	1922	2.16	2281	8.83	9324	87.19	92073
Classified (C) Roads	Urban	75000	9.7	727500	5.27	38339	5.91	42995	22.46	163397	66.36	482769
	Rural	45000	6.6	297000	2.86	8494	3.13	9296	18.00	53460	76.01	225750
Unclassified Roads	Urban	1110000	7.2	7992000	7.00	559440	7.68	613786	24.07	1923674	61.25	4895100
	Rural	55000	4.7	258500	11.31	29236	8.72	22541	28.75	74319	51.22	132404

Overall Road Condition Index: 36.4%

Full Investment Strategy - Annual Options Report

Next 4 years spend based on projected carriageway allocation.

Year 1	£3,965,000		
Category	Red	Amber 1	Amber 2
A Road (Urban)	£50,000	£372,000	£540,000
A Road (Rural)	£10,000	£22,000	£200,000
B Road (Urban)	£46,000	£22,000	£147,000
B Road (Rural)	£10,000	£10,000	£40,000
C Road (Urban)	£30,000	£45,000	£263,000
C Road (Rural)	£10,000	£11,000	£111,000
U Road (Urban)	£450,000	£403,000	£1,000,000
U Road (Rural)	£80,000	£18,000	£75,000
Treatment Totals	£686,000	£903,000	£2,376,000

Year 2	£5,282,000		
Category	Red	Amber 1	Amber 2
A Road (Urban)	£50,000	£372,000	£640,000
A Road (Rural)	£10,000	£22,000	£200,000
B Road (Urban)	£46,000	£22,000	£147,000
B Road (Rural)	£10,000	£10,000	£40,000
C Road (Urban)	£30,000	£45,000	£263,000
C Road (Rural)	£10,000	£11,000	£111,000
U Road (Urban)	£550,000	£574,000	£1,946,000
U Road (Rural)	£80,000	£18,000	£75,000
Treatment Totals	£786,000	£1,074,000	£3,422,000

Year 3	£5,282,000		
Category	Red	Amber 1	Amber 2
A Road (Urban)	£50,000	£372,000	£640,000
A Road (Rural)	£10,000	£22,000	£200,000
B Road (Urban)	£46,000	£22,000	£147,000
B Road (Rural)	£10,000	£10,000	£40,000
C Road (Urban)	£30,000	£45,000	£263,000
C Road (Rural)	£10,000	£11,000	£111,000
U Road (Urban)	£550,000	£574,000	£1,946,000
U Road (Rural)	£80,000	£18,000	£75,000
Treatment Totals	£786,000	£1,074,000	£3,422,000

Year 4	£5,282,000		
Category	Red	Amber 1	Amber 2
A Road (Urban)	£50,000	£372,000	£640,000
A Road (Rural)	£10,000	£22,000	£200,000
B Road (Urban)	£46,000	£22,000	£147,000
B Road (Rural)	£10,000	£10,000	£40,000
C Road (Urban)	£30,000	£45,000	£263,000
C Road (Rural)	£10,000	£11,000	£111,000
U Road (Urban)	£550,000	£574,000	£1,946,000
U Road (Rural)	£80,000	£18,000	£75,000
Treatment Totals	£786,000	£1,074,000	£3,422,000

SRMCS Defect Criteria for Treatment Types

Criteria to be used when selecting the appropriate treatment type on Edinburgh Carriageway Network:

	Strengthening	A Roads		B Roads		C Roads		U Roads	
Criteria No:	Defect	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
1	Rut Depth (mm)	Max	8	Max	10	NA	NA	NA	NA
2	Rut Depth %>10mm	NA	NA	NA	NA	100%	40%	100%	50%
3	LPV (3m) (mm ²)	Max	10	Max	10	NA	NA	NA	NA
4	LPV (3m) (mm ²) (%>10mm ²)	NA	NA	NA	NA	100%	40%	100%	50%
5	Cracking (>4)	100%	30%	100%	40%	NA	NA	NA	NA

	Resurfacing	A Roads		B Roads		C Roads		U Roads	
Criteria No:	Defect	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
1	Rut Depth (mm)	8	4	10	7	NA	NA	NA	NA
2	Rut Depth %>8mm	NA	NA	NA	NA	100%	40%	100%	50%
3	LPV (3m) (mm ²)	10	6	10	8	NA	NA	NA	NA
4	LPV (3m) (mm ²) (%>8mm ²)	NA	NA	NA	NA	100%	40%	100%	50%
5	Cracking (>4)	30%	10%	40%	20%	100%	40%	100%	40%

	Surface Dressing	A Roads		B Roads		C Roads		U Roads	
Criteria No:	Defect	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
1	Texture Depth (mm)	0.5	0	0.5	0	0.5	0	0.3	0
2	High Texture (mm)		1.5		1.5		1.5		1.5
3	Rutting / LPV (3m)	NA	NA	NA	NA	NA	NA	25%	0%
4	Cracking (>1)	100%	50%	100%	50%	100%	20%	100%	20%

Proposed Capital Carriageway Programme

April 2018 – March 2019

Strengthening

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Newhaven Road	Newhaven Road to Park Road	4	Forth	U Urban	Strengthening	Red	604	1.30	1.00	1.00
Parkhead Drive	Parkhead Loan to Sighthill Drive	7	Sighthill/ Gorgie	U Urban	Strengthening	Red	2,883	1.60	1.00	1.00
Craigour Drive	Craigour Place to Craigour Crescent	16	Liberton/ Gilmerton	U Urban	Strengthening	Red	1,101	1.30	1.10	1.05
Greenside Lane	Greenside Row to Greenside Place	11	City Centre	U Urban	Strengthening	Red	724	1.00	1.00	1.00
Leamington Terrace	Upper Gilmore Place to Bruntsfield Place	10	Meadows/ Morningside	U Urban	Strengthening	Red	2,428	1.00	1.00	1.05
West Port	East Fountainbridge to Lauriston Street	11	City Centre	C Urban	Strengthening	Amber 1	264	1.80	1.10	1.00
Charlotte Square	Glenfinlas Street to North Charlotte Street	11	City Centre	C Urban	Strengthening	Amber 1	918	1.80	1.00	1.05
Melville Drive	Marchmont Road To Meadow Place	10	Meadows/ Morningside	U Urban	Strengthening	Amber 1	341	1.80	1.00	1.00
Craigentiny Road	Nantwich Drive to Sydney Terrace	14	Craigentiny/ Dudd'n	U Urban	Strengthening	Amber 1	1,314	1.60	1.10	1.05
Oxgangs Farm Drive	Oxgangs Farm Avenue to Oxgangs Farm Grove	8	Colinton/ Fairmilehead	U Urban	Strengthening	Red	462	1.30	1.00	1.00
Belford Road	Bell' Mills to Belford Terrace	11	City Centre	U Urban	Strengthening	Amber 1	256	1.60	1.10	1.00
Muirhouse Parkway	Service road from Pennywell Medway to roundabout	1	Almond	U Urban	Strengthening	Amber 1	2,123	1.60	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Ferry Road	Bangholm Place to Bonar Place	4	Forth	A Urban	Strengthening	Amber 2	4,120	1.80	1.10	1.00
Bonnington Road	Bonnington Road to Cliftonhall Road	2	Pentland Hills	B Rural	Strengthening	Amber 2	3,014	1.60	1.00	1.00
Eastfield Road	Park and Ride to Hilton Roundabout	1	Almond	C Rural	Strengthening	Amber 2	5,823	1.30	1.25	1.00
Stevenson Road	Balgreen Road to Stevenson Avenue	7	Sighthill/ Gorgie	C Urban	Strengthening	Amber 2	476	1.80	1.25	1.00
Brandon Street	Henderson Row to Glenogle Road	5	Inverleith	C Urban	Strengthening	Amber 2	1,029	1.80	1.10	1.00
Bread Street	Spittal Street to West Port	11	City Centre	C Urban	Strengthening	Amber 2	757	1.80	1.10	1.00
Craigentiny Road	Restalrig Drive to Sydney Terrace	14	Craigentiny/ Dudd'n	U Urban	Strengthening	Amber 2	3,969	1.60	1.25	1.05
Dumbryden Gardens	Dumbryden Gardens to cul-de-sac	2	Pentland Hills	U Urban	Strengthening	Amber 2	1,292	1.00	1.00	1.00

Resurfacing

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Swanston Place	Swanston Avenue to Swanston Gardens	8	Colinton/ Fairmilehead	U Urban	Resurfacing	Red	1,683	1.00	1.00	1.00
Craighouse Road	Morningside Drive to Craiglockhart Entrance	10	Meadows/ Morningside	U Urban	Resurfacing	Red	880	1.30	1.10	1.00
Bingham Broadway	Duddingston Row rbt to Bingham Crescent	17	Portobello/ Craigmillar	U Urban	Resurfacing	Red	2,655	1.00	1.00	1.05
Swanston View	Swanston Gardens to cul-de-sac	8	Colinton/ Fairmilehead	U Urban	Resurfacing	Red	1,143	1.00	1.00	1.00
Maurice Place	Charterhall Road to Ladysmith Road	15	Southside/ Newington	U Urban	Resurfacing	Red	525	1.00	1.00	1.00
Wakefield Avenue	Inchview Terrace to Bryce Avenue	14	Craigentenny/ Dudd'n	U Urban	Resurfacing	Red	2,627	1.60	1.10	1.05
Brougham Place	Brougham Street to Tarvit Street	11	City Centre	U Urban	Resurfacing	Red	405	1.80	1.10	1.00
Orchard Brae Gardens	Full Length	5	Inverleith	U Urban	Resurfacing	Red	2,641	1.00	1.00	1.00
Craigleith Crescent	Craigleith View to Craigleith Avenue North	6	Corstorphine/ Murrayf'd	U Urban	Resurfacing	Red	859	1.30	1.10	1.00
Silverknowes Drive	Lauriston Farm Road to Silverknowes Road	1	Almond	U Urban	Resurfacing	Red	3,720	1.00	1.00	1.00
Dean Path	Dean Path to Belgrave Mews	5	Inverleith	U Urban	Resurfacing	Red	1,541	1.00	1.00	1.00
Farrer Terrace	Parker Avenue to Farrer Grove	14	Craigentenny/ Dudd'n	U Urban	Resurfacing	Amber 1	348	1.00	1.00	1.00
Belford Road	Ravelston Dykes Junction	6	Corstorphine/ Murrayf'd	U Urban	Resurfacing	Amber 1	156	1.60	1.10	1.00
Dumbryden Road	Dumbryden Drive to playing field entrance	2	Pentland Hills	U Urban	Resurfacing	Amber 1	476	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Craigmillar Castle Loan	Craigmillar Castle Avenue to Castlepark Gait	17	Portobello/ Craigmillar	U Urban	Resurfacing	Amber 1	1,264	1.00	1.00	1.00
Craigour Drive	Craigour Crescent to Craigour Gardens	16	Liberton/ Gilmerton	U Urban	Resurfacing	Amber 1	1,541	1.30	1.00	1.00
Whitehouse Loan	Strathearn Place to Greenhill Terrace	10	Meadows/ Morningside	U Urban	Resurfacing	Amber 1	1,576	1.30	1.00	1.05
Morningside Drive	Craighouse Road to Plewlands Terrace	10	Meadows/ Morningside	U Urban	Resurfacing	Amber 1	1,271	1.30	1.10	1.00
Fillyside Road	Nantwich Drive to Seafield Road East	14	Craigentinny/ Dudd'n	U Urban	Resurfacing	Amber 1	1,349	1.30	1.10	1.00
Pleasance	Brown Street to Gilmour Street	15	Southside/ Newington	U Urban	Resurfacing	Amber 2	667	1.60	1.10	1.00
Torphin Road		8	Colinton/ Fairmilehead	U Rural	Resurfacing	Amber 2	3,344	1.30	1.10	1.00
Restalrig Avenue	Moirra Terrace to Britwell Crescent	14	Craigentinny/ Dudd'n	U Urban	Resurfacing	Amber 2	1,037	1.60	1.10	1.05
Muirhouse Parkway	Silverknowes Parkway to end of central reserve	1	Almond	U Urban	Resurfacing	Amber 2	1,377	1.60	1.25	1.00
Clermiston Road	Caroline Terrace to Cairnmuir Road	6	Corstorphine/ Murrayf'd	U Urban	Resurfacing	Amber 2	568	1.60	1.00	1.05
Ratho Park Road	Lidgate Shot to West Croft	2	Pentland Hills	U Urban	Resurfacing	Amber 2	738	1.00	1.00	1.00
Oxgangs Farm Drive	Oxgangs Farm Grove to Oxgangs Farm Terrace	8	Colinton/ Fairmilehead	U Urban	Resurfacing	Amber 2	1,505	1.30	1.00	1.00
Abercromby Place	Heriot Row to Nelson Street	11	City Centre	U Urban	Resurfacing	Amber 2	1,214	1.60	1.00	1.00
Dreghorn Loan	Woodhall Road to Redford Drive	8	Colinton/ Fairmilehead	U Urban	Resurfacing	Amber 2	2,748	1.00	1.00	1.00
Cargil Terrace	Netherby Road to Stirling Road	4	Forth	U Urban	Resurfacing	Amber 2	788	1.30	1.00	1.00
Calton Road	Calton Hill Stairs to Lochend Close	11	City Centre	U Urban	Resurfacing	Amber 2	1,051	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Montgomery Street	Haddington Place to Windsor Street	12	Leith Walk	U Urban	Resurfacing	Amber 2	795	1.30	1.00	1.00
Muirhouse Parkway	Pennywell Road to turning link	1	Almond	U Urban	Resurfacing	Amber 2	355	1.00	1.00	1.00
Fishwives Causeway	Farrer Grove to no 33	14	Craigentenny/ Dudd'n	U Urban	Resurfacing	Amber 2	1,590	1.00	1.00	1.05
Polwarth Grove	Polwarth Terrace to Polwarth Gardens	10	Meadows/ Morningside	C Urban	Resurfacing	Amber 2	1,003	1.60	1.10	1.00
Portobello High Street	Brighton Place to Regent Street	17	Portobello/Craig millar	B Urban	Resurfacing	Red	1,104	1.80	1.25	1.00
Inverleith Row	Bangholm Terrace to Warriston Gardens	5	Inverleith	B Urban	Resurfacing	Red	1,469	1.80	1.10	1.00
Portobello High Street	St Mark's Place to Hope Lane North	17	Portobello/ Craigmillar	B Urban	Resurfacing	Amber 1	883	1.80	1.25	1.00
Portobello High Street	Brighton Place to Beach Lane	17	Portobello/ Craigmillar	B Urban	Resurfacing	Amber 1	1,066	1.80	1.25	1.00
Dalkeith Road	Queen's Crescent to Prestonfield Gardens	15	Southside/ Newington	A Urban	Resurfacing	Amber 1	3,749	1.80	1.25	1.00
Niddrie Mains Road	Niddrie Marischal Road to bus turning area	17	Portobello/ Craigmillar	A Urban	Resurfacing	Amber 1	968	1.80	1.10	1.05
Dalziel Place	Full Length	14	Craigentenny/ Dudd'n	A Urban	Resurfacing	Amber 1	2,019	1.80	1.25	1.00
Moat Place	Moat Drive To Jewson entrance	9	Fountainbridge/ C'hart	A Urban	Resurfacing	Amber 2	361	1.80	1.25	1.00
Meadowbank Road	Clockmill Lane to Parson Green Terrace	14	Craigentenny/ Dudd'n	A Urban	Resurfacing	Amber 2	1,164	1.80	1.25	1.00
Liberton Gardens	Alnwickhill Road to Little Road	16	Liberton/ Gilmerton	A Urban	Resurfacing	Amber 2	3,863	1.80	1.10	1.00
Roseburn Terrace	Roseburn Street to Wester Coates Terrace	6	Corstorphine/ Murrayf'd	A Urban	Resurfacing	Amber 2	1,288	1.80	1.25	1.05

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Gorgie Road	Westfield Street to Wheatfield Road	7	Sighthill/ Gorgie	A Urban	Resurfacing	Amber 2	494	1.80	1.25	1.00
Hillhouse Road	Marchfield Park Lane to Craigcrook Road	5	Inverleith	A Urban	Resurfacing	Amber 2	711	1.80	1.10	1.00
Gorgie Road	Chesser Avenue to Balgreen Road	9	Fountainbridge/ C'hart	A Urban	Resurfacing	Amber 2	5,026	1.80	1.25	1.00
Sir Harry Lauder Road	Ped crossing after signalised junction to coach park entrance	17	Portobello/ Craigmillar	A Urban	Resurfacing	Amber 2	6,541	1.80	1.10	1.00
Peffermill Road	Craigmillar Castle Gardens to King s Haugh	17	Portobello/ Craigmillar	A Urban	Resurfacing	Amber 2	2,822	1.80	1.25	1.05
Queensferry Road	Parkgrove Avenue to Drum Brae North	3	Drum Brae/ Gyle	A Urban	Resurfacing	Amber 2	2,915	1.80	1.25	1.00
Eastfield	Brunstane Mill Road to cash and carry junction	17	Portobello/ Craigmillar	A Urban	Resurfacing	Amber 2	1,761	1.80	1.10	1.05
Lanark Road West	Stewart Road to Curriehill Road	2	Pentland Hills	A Urban	Resurfacing	Amber 2	8,096	1.80	1.10	1.00

Surface Treatment

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Stevenson Road	Westfield Court to Westfield Avenue	7	Sighthill/ Gorgie	C Urban	Surface Treatment	Amber 2	1,071	1.80	1.25	1.00
Crewe Road South	Grigor Gardens to Grigor Avenue	5	Inverleith	C Urban	Surface Treatment	Amber 2	1,394	1.60	1.25	1.00
Morningside Road	Cluny Aveue to Cluny Gardens	10	Meadows/ Morningside	U Urban	Surface Treatment	Red	547	1.80	1.25	1.00
Saughtonhall Drive	Saughton Crescent to Saughtonhall Drive	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Red	391	1.30	1.10	1.00
Dalkeith Road	Lutton Place to Parkside Terrace	15	Southside/ Newington	U Urban	Surface Treatment	Red	667	1.60	1.10	1.00
Murrayfield Road	Kinellan Road to Ravelston Dykes Road	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Red	1,456	1.60	1.10	1.00
Pleasance	Cowgate to New Arthur Place	11	City Centre	U Urban	Surface Treatment	Amber 1	817	1.60	1.00	1.00
Swanston View	Swanston Avenue to Swanston Gardens	8	Colinton/ Fairmilehead	U Urban	Surface Treatment	Amber 1	490	1.00	1.00	1.00
South Gyle Crescent	South Gyle Crescent Lane to South Gyle Trade Park	3	Drum Brae/ Gyle	U Urban	Surface Treatment	Amber 1	2,016	1.60	1.25	1.05
Bankhead Medway	Bankhead Avenue to Bankhead Place	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 1	1,122	1.30	1.00	1.00
Prospect Bank Road	Prospect Bank Place to Pirniefield Place	13	Leith	U Urban	Surface Treatment	Amber 1	1,129	1.00	1.00	1.00
Sydney Park	Vandeleur Avenue to Sydney Terrace	14	Craigentenny/ Dudd'n	U Urban	Surface Treatment	Amber 1	667	1.00	1.00	1.00
Sighthill Drive	Murrayburn Approach to Sighthill Crescent	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 1	1,101	1.30	1.00	1.00
Keith Row	Craigcrook Road to Craigcrook Road	5	Inverleith	U Urban	Surface Treatment	Amber 1	241	1.30	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Murrayfield Road	Campbell Avenue to Stair Park	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 1	1,086	1.60	1.10	1.00
Inverleith Place	Arboretum Road to Inverleith Avenue South	5	Inverleith	U Urban	Surface Treatment	Amber 1	3,117	1.00	1.00	1.00
Colinton Road	Mid Gillsland Road to Polwarth Terrace	10	Meadows/ Morningside	U Urban	Surface Treatment	Amber 1	3,344	1.60	1.10	1.00
Belford Road	Lynedoch Place to Hawthornbank Lane	11	City Centre	U Urban	Surface Treatment	Amber 1	2,123	1.60	1.00	1.00
Whitehouse Terrace	Grange Loan to Kilgraston Road	15	Southside/ Newington	U Urban	Surface Treatment	Amber 1	3,436	1.30	1.00	1.00
Main Street, Ratho	Craigpark Avenue to Baird Road	2	Pentland Hills	U Urban	Surface Treatment	Amber 1	3,046	1.30	1.10	1.00
Braid Road	Braid Hills Road to hotel junction	10	Meadows/ Morningside	U Urban	Surface Treatment	Red	1,456	1.30	1.00	1.05
Restalrig Circus	Full Length	14	Craigenlinny/ Dudd'n	U Urban	Surface Treatment	Amber 1	2,016	1.00	1.00	1.00
Sighthill Drive	Sighthill Avenue to Sighthill Grove	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 1	1,278	1.30	1.00	1.00
Boswall Terrace	Boswall Avenue to Square	4	Forth	U Urban	Surface Treatment	Amber 1	724	1.00	1.00	1.00
Drum Brae Drive	No 176 to No 148	3	Drum Brae/ Gyle	U Urban	Surface Treatment	Amber 1	689	1.30	1.25	1.00
Stenhouse Gardens	Stenhouse Gardens North to Stevenson Drive	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 1	1,172	1.00	1.00	1.05
Manse Road	Featherhall Terrace to car park entrance	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	291	1.30	1.00	1.00
Brougham Street	West Tollcross to Brougham Place	11	City Centre	U Urban	Surface Treatment	Amber 2	1,157	1.80	1.10	1.00
Nantwich Drive	Craigenlinny Road to Fillyside Terrace	14	Craigenlinny/ Dudd'n	U Urban	Surface Treatment	Amber 2	2,123	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Broomhouse Drive	Broomhouse Avenue to roundabout	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	234	1.60	1.25	1.05
Craigcrook Road	Hillpark Terrace to Hillpark Road (plus Craigcrook Gardens to Jeffrey Avenue)	5	Inverleith	U Urban	Surface Treatment	Amber 2	3,266	1.30	1.00	1.00
Caiyside	First cul-de-sac to end	8	Colinton/ Fairmilehead	U Urban	Surface Treatment	Amber 2	3,124	1.00	1.00	1.00
Russell Road	Roseburn Street to cycle path ramp	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	2,485	1.60	1.00	1.05
Sighthill Drive	Sighthill Gardens to Murrayburn Approach	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	2,847	1.30	1.00	1.05
Bankhead Drive	Bankhead Way to Bankhead Crossway North	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	2,293	1.60	1.00	1.00
Bankhead Terrace	Bankhead Drive to Bankhead Place	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	3,138	1.30	1.00	1.00
Saughtonhall Drive	Balgreen Road to Saughtonhall Crescent	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	3,926	1.60	1.10	1.00
Lochend Road	Hermitage Park to Lochend Park	13	Leith	U Urban	Surface Treatment	Amber 2	1,732	1.60	1.10	1.05
Caiystane Crescent	East Camus Road to Caiystane Hill	8	Colinton/ Fairmilehead	U Urban	Surface Treatment	Amber 2	1,250	1.00	1.00	1.00
Drum Brae Drive	Drum Brae North to Clermiston Gardens	3	Drum Brae/ Gyle	U Urban	Surface Treatment	Amber 2	3,373	1.30	1.25	1.00
Redford Avenue	Redford Loan to Thorburn Road	8	Colinton/ Fairmilehead	U Urban	Surface Treatment	Amber 2	2,847	1.00	1.00	1.05
Saughton Mains Drive	Saughton Mains Grove to Saughton Mains Avenue	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	824	1.00	1.00	1.05
Dalkeith Road	Parkside Terrace to Dalkeith Road	15	Southside/ Newington	U Urban	Surface Treatment	Amber 2	362	1.60	1.10	1.00
Broomhouse Place North	Broomhouse Walk to Shop junction	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	1,136	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
South Gyle Broadway	Gyle roundabout to Gogarloch Road roundabout	3	Drum Brae/ Gyle	U Urban	Surface Treatment	Amber 2	3,607	1.60	1.00	1.05
Strachan Road	Craigcrook Road to March Road	5	Inverleith	U Urban	Surface Treatment	Amber 2	3,365	1.30	1.10	1.00
Gordon Terrace	Lady Road To Esslemont Road	15	Southside/ Newington	U Urban	Surface Treatment	Amber 2	476	1.30	1.25	1.00
Murrayfield Road	Kinellan Road to Campbell Avenue	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	1,299	1.60	1.10	1.00
Newbattle Terrace	Pitsligo Road to Whitehouse Loan	15	Southside/ Newington	U Urban	Surface Treatment	Amber 2	1,867	1.30	1.00	1.00
Ross Gardens	Savile Place to Ross Place	15	Southside/ Newington	U Urban	Surface Treatment	Amber 2	149	1.00	1.00	1.00
Station Road	Bankhead Road to The Loan	1	Almond	U Urban	Surface Treatment	Amber 2	7,057	1.30	1.00	1.00
West Caiystane Road	Caiystane Crescent to Caiystane Avenue	8	Colinton/ Fairmilehead	U Urban	Surface Treatment	Amber 2	1,101	1.00	1.00	1.00
Linden Avenue	Gracemount Drive to Fala Place	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	604	1.00	1.00	1.00
Main Street, Ratho	Dalmahoy Road to North Street	2	Pentland Hills	U Urban	Surface Treatment	Amber 2	483	1.30	1.10	1.00
Murrayburn Road	Wester Hailes Road to Murrayburn Motors entrance	2	Pentland Hills	U Urban	Surface Treatment	Amber 2	746	1.60	1.25	1.00
Colinton Road	Mid Gillsland Road to Abbotsford Crescent	10	Meadows/ Morningside	U Urban	Surface Treatment	Amber 2	2,726	1.60	1.10	1.00
Chapel Street	Crichton Street to Windmill Street	15	Southside/ Newington	U Urban	Surface Treatment	Amber 2	362	1.80	1.10	1.05
Silverknowes Road East	Silverknowes Brae to Silverknowes Southway	1	Almond	U Urban	Surface Treatment	Amber 2	2,812	1.00	1.00	1.00
Gogarloch Road	South Gyle Broadway to Gogarloch Haugh	3	Drum Brae/ Gyle	U Urban	Surface Treatment	Amber 2	1,399	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
South Morton Street	Milton Road East to Queens Bay Crescent	17	Portobello/ Craigmillar	U Urban	Surface Treatment	Amber 2	1,314	1.00	1.00	1.00
Niddrie Marischal Road	Niddrie Marischal Crescent to cul-de-sac	17	Portobello/ Craigmillar	U Urban	Surface Treatment	Amber 2	1,441	1.00	1.00	1.05
Saughton Crescent	Saughton Loan to Saughtonhall Drive	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	1,967	1.00	1.00	1.05
Bellevue Crescent	East Scotland Street Lane to Bellevue	11	City Centre	U Urban	Surface Treatment	Amber 2	1,676	1.00	1.00	1.00
Saughton Park	Saughton Gardens to Saughton Loan	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	1,058	1.00	1.00	1.00
Prospect Bank Road	Claremont Road to Prospect Bank Place	13	Leith	U Urban	Surface Treatment	Amber 2	902	1.00	1.00	1.00
Harvest Road	Cliftonhall Road to Harvest Wynd	1	Almond	U Rural	Surface Treatment	Amber 2	3,848	1.30	1.00	1.00
Parkhead Drive	Parkhead Loan to Murrayburn Road	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	312	1.00	1.00	1.05
Gordon Road	Belgrave Gardens to Kaimes Road	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	1,534	1.00	1.00	1.05
Brunstane Bank	Brunstane Crescent to Brunstane Crescent	17	Portobello/ Craigmillar	U Urban	Surface Treatment	Amber 2	809	1.00	1.00	1.00
Kaimes Road	Old Kirk Road to Corstorphine Hill Avenue	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	1,186	1.30	1.00	1.00
Chesser Loan	Full Length	9	Fountainbridge/ C'hart	U Urban	Surface Treatment	Amber 2	2,371	1.00	1.00	1.00
Peniel Road	Overton Farm Road to underpass	1	Almond	U Rural	Surface Treatment	Amber 2	7,704	1.00	1.00	1.00
Wester Coates Terrace	Wester Coates Avenue to Wester Coates Gardens	11	City Centre	U Urban	Surface Treatment	Amber 2	717	1.00	1.00	1.00
Corbiehill Avenue	Corbiehill Gardens to Corbiehill Road	5	Inverleith	U Urban	Surface Treatment	Amber 2	1,590	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Silverknowes Southway	Silverknowes Road East to Silverknowes View	1	Almond	U Urban	Surface Treatment	Amber 2	1,186	1.00	1.00	1.00
Silverknowes Gardens	Silverknowes Brae to cul-de-sac	1	Almond	U Urban	Surface Treatment	Amber 2	320	1.00	1.00	1.00
South Gyle Crescent	South Gyle Broadway roundabout to South Gyle Trade Park	3	Drum Brae/ Gyle	U Urban	Surface Treatment	Amber 2	1,385	1.60	1.25	1.00
Lennox Row	Trinity Road to Russell Place	4	Forth	U Urban	Surface Treatment	Amber 2	618	1.30	1.00	1.00
Craigour Crescent	Craigour Grove To Craigour Loan	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	1,179	1.00	1.00	1.00
Robb's Loan	Eltringham Gardens to Chesser Crescent	9	Fountainbridge/ C'hart	U Urban	Surface Treatment	Amber 2	781	1.00	1.00	1.00
Magdala Crescent	Eglington Crescent to West Coates	11	City Centre	U Urban	Surface Treatment	Amber 2	1,030	1.00	1.00	1.05
Silverknowes View	Silverknowes Green to Silverknowes Southway	1	Almond	U Urban	Surface Treatment	Amber 2	1,505	1.00	1.00	1.00
Rossie Place	Alva Place to Pitlochry Place	12	Leith Walk	U Urban	Surface Treatment	Amber 2	561	1.00	1.00	1.00
Warriston Road	No 17 to crematorium junction	12	Leith Walk	U Urban	Surface Treatment	Amber 2	2,918	1.00	1.00	1.00
Restalrig Road	Ryehill Terrace to Restalrig Park	13	Leith	U Urban	Surface Treatment	Amber 2	2,876	1.60	1.10	1.00
Orchard Terrace	Orchard Drive to Orchard Bank	5	Inverleith	U Urban	Surface Treatment	Amber 2	589	1.00	1.00	1.00
Pirniefield Place	Prospect Bank Place to Prospect Bank Road	13	Leith	U Urban	Surface Treatment	Amber 2	888	1.00	1.00	1.00
New Mart Road	New Market Road to The Risk Factory entrance	9	Fountainbridge/ C'hart	U Urban	Surface Treatment	Amber 2	2,925	1.30	1.00	1.00
Stirling Road	Zetland Place to Lennox Row	4	Forth	U Urban	Surface Treatment	Amber 2	1,484	1.30	1.10	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Dovecot Road	Saughton Road North to Ladywell Avenue	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	2,506	1.00	1.00	1.05
Glendevon Place	Glendevon Avenue to Glendevon Park	6	Corstorphine/ Murrayf'd	U Urban	Surface Treatment	Amber 2	1,392	1.00	1.00	1.00
Saughton Road Service Road	Saughton Mains Place to Saughton Mains Grove	7	Sighthill/ Gorgie	U Urban	Surface Treatment	Amber 2	1,782	1.00	1.00	1.00
Gilmerton Dykes Place	Gilmerton Dykes Crescent to Gilmerton Dykes Grove	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	1,441	1.00	1.00	1.00
Gilmerton Dykes Crescent	No 122 to Gilmerton Dykes Gardens	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	2,180	1.00	1.00	1.00
Gilmerton Dykes Gardens	Gilmerton Dykes Crescent to Gilmerton Dykes Crescent	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	1,200	1.00	1.00	1.00
Swanston Gardens	Swanston Avenue to Swanston View	8	Colinton/ Fairmilehead	U Urban	Surface Treatment	Amber 2	2,357	1.00	1.00	1.00
Hallhead Road	Esslemont Road Lane to Mayfield Road	15	Southside/ Newington	U Urban	Surface Treatment	Amber 2	1,640	1.00	1.00	1.00
Wauchope Place	Niddrie Mains Drive to Niddrie Mains Road	17	Portobello/ Craigmillar	U Urban	Surface Treatment	Amber 2	959	1.00	1.00	1.00
Zetland Place	Stirling Road To Lomond Road	4	Forth	U Urban	Surface Treatment	Amber 2	760	1.00	1.00	1.00
Silverknowes Grove	Silverknowes Eastway To Silverknowes Bank	1	Almond	U Urban	Surface Treatment	Amber 2	1,314	1.00	1.00	1.00
Northfield Circus	Full Length	14	Craigenlinny/ Dudd'n	U Urban	Surface Treatment	Amber 2	1,576	1.00	1.00	1.00
Murrayburn Gardens	Murrayburn Road to Murrayburn Park	2	Pentland Hills	U Urban	Surface Treatment	Amber 2	1,150	1.00	1.00	1.00
Gilmerton Dykes Grove	Gilmerton Dykes Crescent to Gilmerton Dykes Place	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	852	1.00	1.00	1.00

Street	Location	Ward Number	Ward	Classification	Surfacing Method	Defect Category	Area (sqm)	Road Type Weighting	Bus use	Cycle use
Gilmerton Dykes Drive	Cul de sac to cul de sac	16	Liberton/ Gilmerton	U Urban	Surface Treatment	Amber 2	710	1.00	1.00	1.00
Comiston Drive	St Ronan s Terrace to St Fillan s Terrace	10	Meadows/ Morningside	U Urban	Surface Treatment	Amber 2	845	1.00	1.00	1.00
Sleigh Drive	Lochend Square to Lochend Road South	14	Craigeninny/ Dudd'n	U Urban	Surface Treatment	Amber 2	1,832	1.60	1.00	1.05

Setted Streets

Street	Scheme Location	Ward Number	Council Ward	M ²	Raw Score	Road Type Multiplier	Bus Use Multiplier	Cycle Use Multiplier	Prioritisation Score
Brighton Place	TBC	17	Craigeninny/Dudd'n	TBC	18	1.6	1.10	1.05	33.26

Proposed Capital Footway Programme

April 2018 – March 2019

Main Footways

Footway Schemes	Ward Number	Council Ward	Area (sqm)	Raw Score	Usage Multiplier	Prioritisation Score
Westside Plaza Wester Hailes	7	Sighthill/Gorgie	2384	18.00	1.8	32.40
Queen Street	11	City Centre	1,119	19.00	1.6	30.40
Magdala Crescent	11	City Centre	714	19.00	1.6	30.40
Chalmers Crescent	15	Southside/Newington	569	18.00	1.6	28.80
Warriston Road	12	Leith Walk	605	18.00	1.6	28.80
East Crosscauseway	15	Southside/Newington	987	18.00	1.6	28.80
Norton Park	12	Leith Walk	158	18.00	1.6	28.80
Learmonth Gardens	5	Inverleith	802	18.00	1.6	28.80
Anchor Close - f/way (steps)	11	City Centre	20	18.00	1.6	28.80
Beaverhall Road	12	Leith Walk	243	17.00	1.6	27.20
Spey Terrace	12	Leith Walk	736	17.00	1.6	27.20
Hillside Crescent	12	Leith Walk	562	17.00	1.6	27.20
Cornwallis Place & Summerbank	11	City Centre	427	17.00	1.6	27.20
Forth Street	11	City Centre	361	17.00	1.6	27.20

Footway Schemes	Ward Number	Council Ward	Area (sqm)	Raw Score	Usage Multiplier	Prioritisation Score
Bruntsfield Place	10	Meadows/Morningside	316	17.00	1.6	27.20
Broughton Road	12	Leith Walk	251	17.00	1.6	27.20
Montrose Terrace	11	City Centre	408	16.50	1.6	26.40
Potterrow Port	11	City Centre	460	16.50	1.6	26.40
Niddry Street	11	City Centre	67	16.50	1.6	26.40
Dundas Street	11	City Centre	516	16.00	1.6	25.60
Promenade Terrace (Portobello)	14	Craigeninny/Dudd'n	5,186	16.00	1.6	25.60

Local Footways

Footway Schemes	Ward Number	Council Ward	Area (sqm)	Raw Score	Usage Multiplier	Prioritisation Score
Clermiston Grove	3	Drum Brae / Gyle	1,119	21.00	1.2	25.20
Sighthill Loan	7	Sighthill/Gorgie	717	20.00	1.2	24.00
Broomhouse Court	7	Sighthill/Gorgie	446	19.00	1.2	22.80
Craigmount Terrace	3	Drum Brae / Gyle	1,013	19.00	1.2	22.80
Craigs Gardens	3	Drum Brae / Gyle	648	19.00	1.2	22.80
Clermiston Drive	3	Drum Brae / Gyle	943	19.00	1.2	22.80
Clermiston Hill & park	3	Drum Brae / Gyle	365	19.00	1.2	22.80
Craigs Crescent & Grove	3	Drum Brae / Gyle	1470	19.00	1.2	22.80
Henderland Road	6	Costorphine/Murrayf'd	1,049	19.00	1.2	22.80
Craigs Avenue	3	Drum Brae / Gyle	1,304	19.00	1.2	22.80
Crewe Road North	4	Forth	730	19.00	1.2	22.80
Hillview Cottages	2	Pentland Hills	537	18.50	1.2	22.20
Cammo Hill	1	Almond	677	18.00	1.2	21.60
Sighthill Gardens	7	Sighthill/Gorgie	1,297	18.00	1.2	21.60
Ferry Road rear of No 681	5	Inverleith	308	18.00	1.2	21.60
Craigeleith Avenue North	6	Costorphine/Murrayf'd	763	18.00	1.2	21.60
Hillview Terrace	6	Costorphine/Murrayf'd	2,453	18.00	1.2	21.60
Drum Brae Place	3	Drum Brae / Gyle	629	18.00	1.2	21.60

Footway Schemes	Ward Number	Council Ward	Area (sqm)	Raw Score	Usage Multiplier	Prioritisation Score
Durar Drive	3	Drum Brae / Gyle	2,266	18.00	1.2	21.60
Beaufort Road	10	Meadows/Morningside	239	18.00	1.2	21.60
Comiston Road	10	Meadows/Morningside	1,062	18.00	1.2	21.60
Ross Gardens	15	Southside/Newington	74	18.00	1.2	21.60
Wilkieston Road	2	Pentland Hills	108	18.00	1.2	21.60
Crewe Road North	4	Forth	1101	18.00	1.2	21.60
Clermiston Gardens	3	Drum Brae / Gyle	659	17.50	1.2	21.00
Drum Brae Avenue	3	Drum Brae / Gyle	539	17.50	1.2	21.00
Russell Place	4	Forth	384	17.50	1.2	21.00
Zetland PI / Spencer PI Ph1	4	Forth	1004	17.50	1.2	21.00
Dalkeith Street	17	Portobello/Craigmillar	800	17.50	1.2	21.00
Restalrig Crescent	14	Craigentiny/Dudd'n	1139	17.50	1.2	21.00
Craigmount View	3	Drum Brae / Gyle	842	17.00	1.2	20.40
Pentland View	2	Pentland Hills	775	17.00	1.2	20.40
Woodhall Bank Ph1	8	Colinton/Fairmilehead	765	17.00	1.2	20.40
Woodhall Bank Ph2	8	Colinton/Fairmilehead	729	17.00	1.2	20.40
East Caiystane Road	8	Colinton/Fairmilehead	410	17.00	1.2	20.40
Winton Terrace	8	Colinton/Fairmilehead	829	17.00	1.2	20.40
Belford Avenue	5	Inverleith	1,242	17.00	1.2	20.40
Sighthill Street	7	Sighthill/Gorgie	524	17.00	1.2	20.40

Footway Schemes	Ward Number	Council Ward	Area (sqm)	Raw Score	Usage Multiplier	Prioritisation Score
Swanston Road	8	Colinton/Fairmilehead	378	17.00	1.2	20.40
Barony Terrace	6	Costorphine/Murrayf'd	499	17.00	1.2	20.40
Glendevon Road	6	Costorphine/Murrayf'd	483	17.00	1.2	20.40
Lady Menzies Place	12	Leith Walk	270	17.00	1.2	20.40
Colinton Road	9	Fountainbridge/C'hart	672	17.00	1.2	20.40
Lennel Avenue	6	Costorphine/Murrayf'd	1,022	17.00	1.2	20.40
Craigmount Grove	3	Drum Brae / Gyle	1,019	17.00	1.2	20.40
Kingsknowe Crescent	2	Pentland Hills	886	17.00	1.2	20.40
South Gyle Road	3	Drum Brae / Gyle	694	17.00	1.2	20.40
Clermiston Drive/Park Grove	3	Drum Brae / Gyle	1,131	17.00	1.2	20.40
Caroline Terrace	6	Costorphine/Murrayf'd	1,004	17.00	1.2	20.40
Parkhead Street	7	Sighthill/Gorgie	241	17.00	1.2	20.40
Craigeleith Crescent	6	Costorphine/Murrayf'd	3,514	17.00	1.2	20.40
Barony Terrace	6	Costorphine/Murrayf'd	1,029	17.00	1.2	20.40
Stenhouse Cottages	7	Sighthill/Gorgie	159	17.00	1.2	20.40
Clermiston Green	3	Drum Brae / Gyle	454	17.00	1.2	20.40
Lauriston Farm Road	1	Almond	1,576	17.00	1.2	20.40
Featherhall Grove	6	Costorphine/Murrayf'd	169	17.00	1.2	20.40
Swanston Gardens	8	Colinton/Fairmilehead	1,575	17.00	1.2	20.40
Caroline Terrace	6	Costorphine/Murrayf'd	2,815	17.00	1.2	20.40

Footway Schemes	Ward Number	Council Ward	Area (sqm)	Raw Score	Usage Multiplier	Prioritisation Score
Strathalmond Park	1	Almond	1122	17.00	1.2	20.40
West Caiystane Road	8	Colinton/Fairmilehead	494	17.00	1.2	20.40
East Caiystane Place	8	Colinton/Fairmilehead	442	17.00	1.2	20.40
Dreghorn Park	8	Colinton/Fairmilehead	981	17.00	1.2	20.40
Blinkbonny Terrace	6	Corstorphine/Murrayf'd	690	17.00	1.2	20.40
Corstorphine Bank Terrace	6	Corstorphine/Murrayf'd	463	17.00	1.2	20.40
Baberton Mains Hill	2	Pentland Hills	765	17.00	1.2	20.40
Downie Terrace	6	Corstorphine/Murrayf'd	458	17.00	1.2	20.40
St John's Gardens	6	Corstorphine/Murrayf'd	148	17.00	1.2	20.40
Standingstone Road	1	Almond	743	17.00	1.2	20.40

Proposed Capital Street Lighting Programme

April 2018 – March 2019

Area	Location	Comments
City Wide	Various ancillary works	Revenue Column/Lantern replacements transferred to Capital
West	South Queensferry - replacement of 5th core cable network	Commitment to local Councillor due to Scottish Power faults
City Centre	Royal Mile Closes	General improvement scheme linked to obsolete equipment.
City Wide	Parks Lighting	General improvement scheme linked to obsolete equipment.
City Wide	City wide - street lighting renewal schemes	General improvement scheme linked to obsolete equipment and poor lighting levels.
City Wide	Illuminated traffic islands and traffic signage	General improvement scheme linked to obsolete equipment.
City Wide	Replacement of Test Failed Columns	Structurally deficient lighting and traffic signage columns.

Proposed Bridges Budget Allocation & Programme

April 2018 – March 2019

Structure Name	Work Required
ST MARKS BRIDGE	Bearing replacement, grouting of post tensioned tendons, deck waterproofing and structural repairs
Market Street	Repairs to structure
Great Junction Street	Principal Bridge Inspection, Intrusive Investigations, Assessment of load carrying capacity and recommendations for repairs
Belford Walkway	Replacement of Structure
Morrison Street	Bridge refurbishment