

## ABERDEEN CITY COUNCIL

|                           |   |
|---------------------------|---|
| <b>COMMITTEE</b>          | City Growth & Resources   |
| <b>DATE</b>               | 25 <sup>th</sup> April 2019   |
| <b>EXEMPT</b>             | No, but appendices are exempt under Paragraph 10 –<br><br>'This report refers to the acquisition or supply of goods/services where disclosure to the public of the amount to be spent would be likely to give an advantage to a person or organisation seeking to enter a contract with the Council.' |
| <b>CONFIDENTIAL</b>       | No  |
| <b>REPORT TITLE</b>       | Roads and Transport Related Budget Programme 2019-2020  |
| <b>REPORT NUMBER</b>      | OPE/19/217  |
| <b>DIRECTOR</b>           | Rob Polkinghorne  |
| <b>REPORT AUTHOR</b>      | Doug Ritchie  |
| <b>TERMS OF REFERENCE</b> | Purpose 1 & 3   |

### 1. PURPOSE OF THE REPORT

- 1.1 This report brings together the proposed roads and transportation programme from the approved capital budgets for 2019/2020. This is presented as a provisional programme. Members are asked to approve the specific schemes where detailed and the addition provisional programmes for 2020/21. This report should be read in conjunction with the exempt agenda section of the committee reports.

### 2. RECOMMENDATIONS

That the Committee:-

- 2.1 Approve the schemes listed in the appendices as the detailed proposals for expenditure within budget heading;
- 2.2 Instruct the Chief Officer - Operations and Protective Services to implement the detailed programme;
- 2.3 Instruct the Chief Officer - Operations and Protective Services to undertake or instruct appropriate procedures in accordance with the council's procurement regulations to procure the works referred to in the exempt appendices for the roads capital budget programme for the financial year 2019/20 and award contracts relating thereto;
- 2.4 Instruct the Chief Officer - Operations and Protective Services in consultation with the Chief Officer - Commissioning to award contracts on receipt of a valid tender submission subject to necessary funding in the approved capital budgets;
- 2.5 Approve as estimated expenditure in terms of the procurement regulation 4.1.1, in order for work to commence on the capital programme, the sums shown against each

heading of the roads capital budget for the financial year 2019/20 set out in exempt appendices to this report; and

- 2.6 Note that approval of the procurement of these works contracts with estimated expenditure of £250,000 and above is sought within the Procurement Workplans and Business Cases report also presented to this committee.

### 3. BACKGROUND

- 3.1 This report brings together, for members' information, the proposed programme for capital funding spend for both Roads and Transportation for 2019 / 2020 together with provisional reserve list programme for 2020/2021.
- 3.2 The provisional reserve programme for 2020/2021 will allow substitution of schemes should it not be possible to implement any of the proposed 2019/2020 schemes.
- 3.3 The appendices set out the proposed programme of works which will be funded through the approved capital budgets of the council together with linkages to the community action plans.

A summary of the relevant appendices in relation to the individual schemes are as follows with further information detailed under item 10 below:

|     |   |                            |
|-----|---|----------------------------|
| A.  | Traffic lights and pedestrian crossings | £400,000                   |
| B.  | Lighting Improvements                   | £2,500,000                 |
| C.  | Reserve lighting improvements           | (For approval if required) |
| D.  | Cycling Walking safer Streets           | £374,000                   |
| E.  | Footway resurfacing                     | £588,000                   |
| F.  | Reserve footway resurfacing             | (For approval if required) |
| G.  | Carriageway resurfacing                 | £2,288,000                 |
| H.  | Reserve carriageway resurfacing         | (For approval if required) |
| J1. | Drainage                                | £90,000                    |
| J2. | Reserve drainage programme              | (For approval if required) |
| K.  | Weak & Major Bridge repairs             | £230,000                   |
|     | Road sign replacement                   | £30,000                    |
| L.  | Flooding and Coastal protection schemes | £1,360,000                 |
| N.  | Additional Capital allocation 2019/20   | £2,500,000                 |
| P.  | AWPR related repairs                    | £250,000                   |
|     | <b>Total</b>                            | <b>£10,610,000</b>         |

- 3.4 Estimated costs for the individual proposed works are included in the exempt appendices to the report which are contained in the exempt section of the agenda. These are exempt as some schemes may be put out to tender in the open market.
- 3.5 The proposals are in line with the transportation strategy to provide safe crossing, cycling and walking facilities and reduce traffic speeds thereby contributing to accident reduction across the city and improve safety for all road users.
- 3.6 The use of such funding will significantly enhance the council's ability to meet the aims and objectives of the emerging Aberdeen Local Transport Strategy 2015-2020.

#### 4. FINANCIAL IMPLICATIONS

- 4.1 Expenditure will be in accordance with the council's approved capital budgets for 2019 - 2020.

#### 5. LEGAL IMPLICATIONS

- 5.1 There are no direct legal implications arising from the recommendations of this report.

6. **MANAGEMENT OF RISK.** This represents a potential hazard and financial risk to the council. (Opportunity, Environmental and Customer/Citizen Risks).

|                  | Risk  | Low (L),<br>Medium<br>(M), High<br>(H) | Mitigation   |
|------------------|---|--|--|
| <b>Financial</b> | Footway and cycleway improvements recommended in this report have no identified maintenance budget of their own and may therefore impact on the council's maintenance budgets in the future<br><br>Increase in insurance claims     | M                                      | This will be minimised, however, by the use of high-quality design and installation materials to ensure longevity of new infrastructure<br><br>Inspection regime   |
| <b>Legal</b>     | There are risks in promoting traffic regulation orders due to possible public objection and this may delay the progression of some of the proposed schemes.<br>Lack of investment in roads will increase claims against the council | L                                      | Ensure that orders are progressed taking into account the longest possible time required to deliver.<br><br>Continue to prioritise spend in order to repair higher used higher damaged roads and footpaths   |
| <b>Employee</b>  | Staff resources   | H                                      | The approval of the budget spends will allow staff to control the programming of the works. There is a need to ensure that there are sufficient adequately trained staff resources to deliver the proposed programmes within the specified timescales. |
| <b>Customer</b>  | Increased perception of poor quality road infrastructure  | H                                      | The implementation of the programme will assist roads and footways within the city being maintained to an acceptable standard thus increasing ease of travel whilst reducing the risk to   |

|                     |  |   |   |
|---------------------|--|---|---|
|                     |  |   | all members of the travelling public  |
| <b>Environment</b>  | The risks of inaction (not improving and increasing pedestrian and cycle infrastructure) are also significant in terms of a poor quality environment, poor reputation for Aberdeen and a decline in active travel which would have significant implications for the health and wellbeing of the citizens of Aberdeen | M | Consideration of any potential environmental impacts during the implementation of the roads programme and the identification of appropriate mitigation in consultation with appropriate Council Officers and bodies |
| <b>Technology</b>   | Lack of asset management information to deliver annual work programme  | M | Carry out a digital asset survey of the city roads infrastructure in order to manage the spend over several years to continue to optimise our use of resources to continue to provide best value                    |
| <b>Reputational</b> | Lack of investment in roads will increase claims against the council and press involvement   | M | Continue to prioritise spend in order to repair higher used higher damaged roads and footpaths  |

## 7. OUTCOMES

| <b>Local Outcome Improvement Plan Themes</b> |                                |
|--|--------------------------------|
|  | <b>Impact of Report</b>        |
| <b>Prosperous Economy</b>                    | Investment in infrastructure   |
| <b>Prosperous Place</b>                      | Safe and resilient communities |

| <b>Design Principles of Target Operating Model</b> |  |
|--|--|
|  | <b>Impact of Report</b>  |
| <b>Customer Service Design</b>                     | <p>Improved Customer Experience City Voice, the panel of Aberdeen residents who are contacted on a regular basis and asked for their views on a range of issues, is used to develop a statistically analysed pattern of response to basic aspects of asset management.</p> <p>The views of affected residents and road users are sought on our performance on specific schemes. Records held in the Confirm (Roads Maintenance Management) System and records of claims by road users against alleged defects can be analysed to indicate areas of concern. Specific surveys may be carried out from time to time to address specific areas of concern. Results of these various analyses can be used in conjunction with inspection data to establish customers' areas of concern and expectations of the maintenance of the roads network.</p> |

|                                   |  |
|-----------------------------------|--|
| <b>Organisational Design</b>      | Our organisational structure is such that it reflects our services and the statutory duties we have to deliver.  |
| <b>Governance</b>                 | The asset management plan will be used to manage the allocated budget and spend over several years to continue to optimise our use of resources to continue to provide best value. |
| <b>Workforce</b>                  | Need to ensure that there are sufficient adequately trained staff resources to deliver the proposed programmes   |
| <b>Process Design</b>             | Required technical staff to understand improved innovative processes that will assist in an improved service delivery and best value.  |
| <b>Technology</b>                 | There is a need to modify the reporting systems from paper to digital in order that we can measure outputs.  |
| <b>Partnerships and Alliances</b> | Continue to improve on customer information relating to works delivery.  |

## 8. IMPACT ASSESSMENTS

| <b>Assessment</b>  | <b>Outcome</b>   |
|--|--|
| <b>Equality &amp; Human Rights Impact Assessment</b>                 | This report has no direct implications in relation to Equalities and Human Rights Impact Assessment. |
| <b>Privacy Impact Assessment</b>                                     | Not required   |
| <b><u>Children's Rights Impact Assessment/Duty of Due Regard</u></b> | Not applicable   |

## 9. BACKGROUND PAPERS

[http://www.audit-scotland.gov.uk/docs/central/2010/nr\\_110216\\_road\\_maintenance.pdf](http://www.audit-scotland.gov.uk/docs/central/2010/nr_110216_road_maintenance.pdf)  
<http://www.transportscotland.gov.uk/report/j234326-02.htm>  
RAMP Report to CH&I Committee 24 Jan 2017

## 10. APPENDICES

The full list of appendices A to V are detailed below:

Please note that the individual scheme costs have not been included as appendices A to P are included in the exempt section of the agenda. These are exempt as some schemes may be put out to tender in the open market.

**Appendix A: Traffic lights and pedestrian crossings.** A capital budget of **£400,000** has been allocated to allow the continued upgrade of the systems across Aberdeen, corridor delays are reduced by the upgrading of these outdated systems ensuring that there are no delays caused by the need to obtain outdated parts.

**Appendix B: Lighting improvements.** Planned lighting improvements have been allocated a capital budget of **£2,500,000**. **£1,000,000** will be used, in the majority, for the replacement of lighting columns that have been identified as potentially dangerous or beyond their design life. **£1,500,000** has been allocated to change the existing

lanterns to low energy and LED lighting, this will reduce the energy bill and CRC payments whilst also lowering Aberdeen City Council's carbon footprint.

**Appendix C: Reserve lighting improvements.** The provisional reserve programme for 2020/2021 will allow substitution of schemes should it not be possible to implement any of the proposed 2019 / 2020 schemes.

**Appendix D: Cycling Walking Safer Streets.** A grant of **£374,000** has been awarded by the Scottish Government for Cycling Walking Safer Streets (CWSS) projects in Aberdeen. The programme for these works are detailed in appendix D and will provide significant road safety benefits in an effort to achieve accident reduction as well as reduce the number and severity of injuries sustained in road traffic accidents across the city. All schemes will be implemented as soon as possible subject to the successful promotion of any required legislation. A requirement of this budget is that the spend on cycling schemes should be a minimum of 36% of the grant.

**Road safety schemes:** Included in CWSS budget.

**Appendix E: Footway resurfacing.** A budget of **£588,000** has been allocated for footway resurfacing. The programme has been formulated on the basis of detailed surveys and targeted at footways categorised as being in a bad or poor condition. The condition of sections of footway included in the programme are shown in the report under **Assessed condition**, in order to maintain a standard level of comparison all footways have been assessed by the same person.

**Appendix F: Reserve footway resurfacing** The provisional reserve programme for 2020/2021 will allow substitution of schemes should it not be possible to implement any of the proposed 2019/2020 schemes.

**Appendix G: Carriageway resurfacing.** The capital carriageway resurfacing programme has been allocated a budget of **£2,288,000**. The programme is generally prepared on the basis of the results of the road condition surveys of the existing infrastructure.

**Appendix H: Reserve carriageway resurfacing.** The provisional reserve programme for 2020/2021 will allow substitution of schemes should it not be possible to implement any of the proposed 2019/2020 schemes.

**Appendix J1: Drainage.** A capital budget of **£90,000** has been allocated for the drainage works.

**Appendix J2: Reserve drainage programme.** The provisional reserve programme for 2020/2021 will allow substitution of schemes should it not be possible to implement any of the proposed 2019/2020 schemes.

**Appendix K: Weak & major bridge repairs.** A capital budget of **£50,000** has been allocated for weak bridge repairs and **£180,000** for major bridge works.

**Road sign replacement:** A capital budget of **£30,000** has been allocated for the road sign replacement programme.

**Appendix L: Flooding and coastal protection schemes.** A capital budget of **£1,360,000** has been allocated for the initial design works for flood prevention and coastal protection schemes.

**Appendix N: Additional capital allocation.** An additional capital budget of **£10 million** has been allocated to the roads service to be spent over years 2018-19 through to 2022-23. This additional capital funding is split as follows:

2018-19 - £500K - Completed

**2019-20 - £2.5 Million**

2020-21 - £3.0 Million

2021-22 - £4.0 Million

The proposed schemes for implementation during 2019-20

|  |                   |
|--|-------------------|
| Carriageway Resurfacing Repairs                      | £1,545,550        |
| Junctions / Utility Tracks / Recurring Pothole Areas | £577,274          |
| Additional Investment in Footways                    | £377,176          |
| <b>Total</b>   | <b>£2,500,000</b> |

**Appendix O: AWPR contribution for damage to our road network.** This sum of money highlights the roads still to be repaired following damage caused by the AWPR contractor during the construction of the works. This sum was agreed as **£250,000**

**Appendix P:** is a summary of the proposed capital spend.

**Appendix Q & R:** provides an explanation of the road condition index.

**Appendix S:** is copy of the table showing the RCI for all councils across Scotland.

**Appendix T & U** shows the road condition index for the single year

**Appendix V** shows the movement in the road condition index between 2004 and 2019.

The condition of sections of carriageway included in the programme are shown in the report under **Assessed condition**, in order to maintain a standard level of comparison for all road surfaces having been assessed to the same criteria. Due to many road surfaces have suffered continued deterioration since the road condition survey was carried out staff will continue to reassess all roads, this reassessment could necessitate changes to the proposed programme during the financial year.

## 11. REPORT AUTHOR CONTACT DETAILS

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## Appendix A - Traffic Lights and Pedestrian Crossings Programme 2019/20

### Refurbishment programme 2019/20

| Site                           | Budget  | Installation | Type     | Code | Allocation   | Estimated Cost  |
|--------------------------------|---------|--------------|----------|------|--------------|-----------------|
| John Street / Loch Street      | capital | Refurb'      | Junction | N/A  | N/A          | exempt          |
| Queens Road / Groats Road      | capital | Refurb'      | Junction | N/A  | N/A          | exempt          |
| Queens Road / Springfield Road | capital | Refurb'      | Junction | N/A  | N/A          | exempt          |
| West North St / Mealmarket St  | capital | Refurb'      | Junction | N/A  | N/A          | exempt          |
| Schoolhill @ Backwynd          | capital | Refurb'      | Puffin   | N/A  | N/A          | exempt          |
| Queens Road near Groats Road   | capital | Refurb'      | Puffin   | N/A  | N/A          | exempt          |
|                                |         |              |          |      | <b>Total</b> | <b>£400,000</b> |

### Reserve list 2019/20

| Site                                     | Budget  | Installation | Type        | Code | Allocation   | Estimated Cost  |
|--|---------|--------------|-------------|------|--------------|-----------------|
| George Street / ST Andrew Street         | capital | Refurb'      | Junction    | N/A  | N/A          | exempt          |
| Rosemount Place / Esslemont Avenue       | capital | Refurb'      | Junction    | N/A  | N/A          | exempt          |
| ST Machar Drive / High Street / Chanonry | capital | Refurb'      | Junction    | N/A  | N/A          | exempt          |
| Westburn Road / Forresterhill Road       | capital | Refurb'      | Junction    | N/A  | N/A          | exempt          |
| Great Southern Road at Bridge of Dee     | capital | Refurb'      | Dual Puffin | N/A  | N/A          | exempt          |
| Beach Esplanade at fun beach             | capital | Refurb'      | Puffin      | N/A  | N/A          | exempt          |
| Garthdee Road at Sainsburys              | capital | Refurb'      | Puffin      | N/A  | N/A          | exempt          |
| Queens Road at Albyn school              | capital | Refurb'      | Puffin      | N/A  | N/A          | exempt          |
|  |         |              |             |      | <b>Total</b> | <b>£400,000</b> |



## Appendix B - Proposed Lighting Capital Programme 2019/20

| SCHEME  | ESTIMATE £      | COMMENTS   |
|---|-----------------|------------|
| <b>Corroded column replacement</b>              |                 |            |
| Peterculter corroded columns                    | exempt          | 65 columns |
| Milltimber corroded columns                     | exempt          | 20 columns |
| North Deeside Road corroded columns             | exempt          | 81 columns |
| Cults/ Bielside corroded columns                | exempt          | 75 columns |
| Mannofield/ Braeside/ Airyhall corroded columns | exempt          |            |
| Ferryhill corroded columns                      | exempt          |            |
| Garthdee/ Ruthrieston corroded columns          | exempt          |            |
| Immediate replacements of corroded columns      | exempt          | 75 columns |
| <b>Corroded Replacement Total</b>               | <b>£520,000</b> |            |

|                      |                 |            |
|----------------------|-----------------|------------|
| <b>Testing</b>       |                 |            |
| Electrical testing   | exempt          | 5500 units |
| Structural testing   | exempt          | 3000 units |
| <b>Testing Total</b> | <b>£140,000</b> |            |

|                                    |        |  |
|------------------------------------|--------|--|
| <b>Column / cable replacements</b> |        |  |
| <i>8 / 10 m Height</i>             |        |  |
| Mounthooly roundabout              | exempt | whole street - 18No cols   |
| Cloverhill Road                    | exempt | 3 columns  |
| Wellington Street                  | exempt | 2 columns  |
| Groats Road                        | exempt | 9 columns  |
| Countesswells Avenue area          | exempt | Countesswells Avenue - 20 No.,<br>Countesswells Terrace - 13no,<br>Countesswells Place - 6no,<br>Countesswells Crescent - 12no,<br>Pinewood Place - 5No,<br>Pinewood Road - 5no,<br>Pinewood Avenue - 4no,<br>Pinewood Terrace - 4 no.<br>(72no total) |
| West Tullos Road                   | exempt |  |

|  |                 |                             |
|--|-----------------|-----------------------------|
| <i>5 / 6 m Height</i>                    |                 |                             |
| Lane Hamilton Pace I/ Carden Place       | exempt          | strainer column replacement |
| FP Samphrey Road to Groats Road          | exempt          | whole street - 18No columns |
| Concrete Column replacement - various    | exempt          |                             |
| Footways / resurfacing contract          | exempt          |                             |
| <b>Column / cable replacements Total</b> | <b>£340,000</b> |                             |

|                      |                   |  |
|----------------------|-------------------|--|
| <b>Capital Total</b> | <b>£1,000,000</b> |  |
|----------------------|-------------------|--|

### **Energy/carbon savings**

|  |            |  |
|--|------------|--|
| Replacement of inefficient lanterns with LED | £1,500,000 |  |
|--|------------|--|

|                              |                   |  |
|------------------------------|-------------------|--|
| <b>Energy / carbon total</b> | <b>£1,500,000</b> |  |
|------------------------------|-------------------|--|

## Appendix C - Proposed Lighting Reserve Capital Programme 2019/20

| SCHEME   | ESTIMATE £      | COMMENTS           |
|--|-----------------|--------------------|
| <b>Corroded column replacement</b>                         |                 |                    |
| Kincorth/ Tullos corroded columns                          | exempt          |                    |
| Cove/ Altens corroded columns                              | exempt          |                    |
| Torry corroded columns                                     | exempt          |                    |
| Dubford – Phase 2 - corroded columns                       | exempt          |                    |
| Middleton - Phase 2 - corroded columns                     | exempt          |                    |
| <b>Corroded replacement total</b>                          | <b>£367,000</b> |                    |
| <b>Column/cable Replacement</b>                            |                 |                    |
| <i>8 / 10 m Height</i>                                     |                 |                    |
| King Street/ St Machar roundabout                          | exempt          | 11 columns         |
| Beach Boulevard roundabout                                 | exempt          | 4 columns          |
| A947, roundabout @ Marriott, Dyce                          | exempt          | 5 columns          |
| Concrete column replacement - various                      | exempt          | Kings Gate         |
| <i>5 / 6 m Height</i>                                      | exempt          |                    |
| Concrete column replacement - various                      | exempt          | Phase 1            |
| Mearns Street  | exempt          | additional columns |
| Laurel Grove   | exempt          | additional columns |
| Fittick Place lane, Cove                                   | exempt          | additional columns |
| <b>Column / cable replacement total</b>                    | <b>£340,000</b> |                    |
| <b>Capital Total</b>                                       | <b>£707,000</b> |                    |
| <b>Budget pressure funding corroded column replacement</b> | <b>£395,000</b> |                    |

### **Concrete Columns 8 to 10m**

|                                  |                      |
|----------------------------------|----------------------|
| Hilton Drive                     | Greenfern Road       |
| Hilton Road                      | Long Walk Road       |
| Springfield Road                 | Provost Fraser Drive |
| Provost Rust Drive               | Springhill Road      |
| A947 - Polo Gardens to           |                      |
| Stoneywood Park                  | Upper Mastrick Way   |
| Victoria Street Dyce             | Union Grove          |
| Countesswells Road               | Westburn Drive       |
| Manor Ave- Provost Rust to Logie |                      |
| Terrace                          |                      |
| Rosehill Drive                   |                      |
| Cairncry Road                    |                      |

### **Concrete columns up to 6m**

|                      |                       |                    |
|----------------------|-----------------------|--------------------|
| Birkhall Parade      | Arnage Crescent       | Invercauld Gardens |
| Cairnwell Drive      | Arnage Drive          | Invercauld Place   |
| Colonsay Crescent    | Arnage Gardens        | Isla Place         |
| Dinbaith Place       | Burnbrae Place        | Mastrick Drive     |
| Jura Place           | Cairnwell Avenue      | Muirfield Road     |
| Kingsford Road       | Craigendarroch Avenue | N.A.D. inset @155  |
| Lewis Road car parks | Craigendarroch Place  | Privet Hedges      |
| Maidencraig Place    | Croft Place           | Spey Road          |
| Mull Way             | Fernhill Road         | Stocket Parade     |
| Sheddocksley Drive   | Gairnshiel Avenue     | Tay Road           |
| Stroma Terrace       | Gairnshiel Place      | Teviot Road        |
| Tiree Crescent       | Gillahill Place       |                    |
| Windford Road        | Gillahill Road        |                    |
| Windford Square      | Hawthorn Crescent     |                    |
| Whinhill Gardens     |                       |                    |



## **Appendix D - Cycling Walking Safer Streets 2019/20.**

(Requirement of Grant Offer to spend minimum 36% but preferably 50 % on cycling schemes)

| <b>LOCATION / PROPOSALS</b>            | <b>DESCRIPTION OF WORK</b>   | <b>ESTIMATED COSTS</b>   | <b>OVERALL BUDGET</b> | <b>ELEMENT</b>   |
|--|--|--|-----------------------|------------------|
| Walking network                        | Where review/ investigation show a requirement for small improvements to pedestrian routes, including tactile paving, additional path network, pedestrian guard-rails, toucans or pelican crossings  | Budget of £95,000 for implementation at various locations city wide. Local councillors to be kept appraised.   | exempt                | Walking          |
| Road safety around schools             | Measures to support and encourage walking and cycling to school including missing path network, parking measures and educational events  | Small scale measures at schools throughout the city. Support of road safety educational programmes   | exempt                | Walking/ cycling |
| Cycling infrastructure                 | Cycling facilities, links, parking, lining & signing throughout the City to improve and expand the network   | Budget of £150,000 for implementation at various locations city wide. Schemes include £50,000 continuation of Dyce Drive Cycle/ Pedestrian provisions, £10,000 i-bike officer contribution and small scale measures as advised by Aberdeen Cycle Forum. ( Requirement of grant offer to spend minimum 36% but preferably 50 % on cycling schemes). | exempt                | Cycling          |
| Traffic management measures            | Small scale improvements to signing & lining and new works associated with traffic management and traffic regulation orders.   | Budget of £30,000 for implementation at various locations city wide. Local members to be kept appraised.   | exempt                | Safer Streets    |
| Road safety general                    | Route action work on various routes and locations citywide that have been identified for improvements from the annual accident scan.   | Signing, lining and ancillary works as identified.   | exempt                | Safer Streets    |
| Campaigns and events                   | Publicity in relation to Road Safety Campaigns & Community Safety including Safe Drive - Stay Alive Campaign and publicity in relation to Promotion of Bike Week, Cycle Map, Rider Refinement, Other Cycling Initiatives across the city, Green Transport Week & European Mobility week. | Budget of £15,000 for Aberdeen City contribution Local Transport Strategy Policy / Proposal SP1.   | exempt                | All              |
| Parking Improvements                   | Small scale or minor amendments to or updating of CPZs.  | Foresterhill CPZ introduction of pay by phone option, upgrade of signage £20,000   | exempt                | Safer Streets    |
| Aberdeen City Council Road Safety Plan | Bi-annual review and publication of the Road Safety Plan (Statistical update only - Aberdeen city)   | Budget of £2,000 Road Safety Action Plan   | exempt                | All              |
| <b>TOTAL:</b>                          |  |  | <b>£374,000</b>       |                  |

## **Appendix E - Capital Footway: Main List 2019/20**

### **Capital Budget Planned**

| <b>Name of Road</b>                           | <b>Location and Description of Works</b>  | <b>Assessed condition</b> | <b>Area (m<sup>2</sup>)</b> | <b>Cost</b>     |
|---|---|---------------------------|-----------------------------|-----------------|
| Various locations                             | Tree removals and footway reinstatements  | 10                        | N/A                         | exempt          |
| Various locations                             | Tree stump removals and footway reinstatements  | 10                        | N/A                         | exempt          |
| Various locations                             | Small capital schemes individually under £10000 in value - both bitmac and slabbed / paviour locations  | 10                        | N/A                         | exempt          |
| Various locations                             | Grind tree stumps and reinstate footway in bitmac or slabs  | 10                        | N/A                         | exempt          |
| Various locations                             | Removal of old disintegrating (vibrated stone) kerbs and renew with concrete kerbs in footways in reasonable condition. Minimum amount of reinstatement to rear and front of kerbs. | 10                        | N/A                         | exempt          |
| Various locations, city centre                | Install city centre bollards and resurface footway in slabs   | 10                        | N/A                         | exempt          |
| Upperkirkgate                                 | North Side from Bon Accord Centre towards Gallowgate. Resurface footway with slabs. Install city centre bollards, additional to include for Caithness slabs                         | 10                        | 329                         | exempt          |
| Upperkirkgate                                 | South from St Nicholas Centre to Flourmill Lane. Resurface footway with slabs. Install city centre bollards, additional to include for Caithness slabs                              | 10                        | 84                          | exempt          |
| Gallowgate                                    | West side number 17 to St Paul Street, additional to include for Caithness slabs  | 10                        | 95                          | exempt          |
| Kinaldie Crescent                             | Kildrummy Road northwards both sides. Renew concrete kerbs and reconstruct footway in bitmac.   | 10                        | 660                         | exempt          |
| Woodburn Gardens                              | Both sides Woodburn Place to number 67. Relay stone kerbs and resurface footways with bitmac.   | 10                        | 560                         | exempt          |
| Kildrummy Road                                | Outer footway from Craigiebuckler Avenue to Number 18, Renew kerbs and reconstruct footway with bitmac.   | 10                        | 180                         | exempt          |
| Kaimhill Circle                               | Phase 3 outer section from Kaimhill Road to Garthdee Drive. (2 sections) Relay stone kerbs and replace slabs with bitmac.   | 9                         | 347                         | exempt          |
| Dunbar Street                                 | West Side from 59 to 73. Resurface footway with precast concrete slabs. Install bollards.   | 9                         | 164                         | exempt          |
| Cairnwell Drive                               | North Side from opposite Derry Avenue to Long Walk Road. (Phase 2 of 2) Renew kerbs and resurface footway in bitmac.  | 9                         | 470                         | exempt          |
| Hilton Road                                   | Number 45-53, Renew kerbs and reconstruct footway with bitmac.  | 9                         | 120                         | exempt          |
| Deansloch Crescent                            | Between Byron Avenue and Quarry Road renew bad sections of kerb and footway at various locations  | 9                         | 810                         | exempt          |
| <b>Total capital budget planned footways:</b> |   |                           |                             | <b>£588,000</b> |

## **Appendix F - Capital Footway: Reserve List 2019/20**

| <b>Name of Road</b>              | <b>Location and Description of Works</b>   | <b>Assessed condition</b> | <b>Area (m<sup>2</sup>)</b> | <b>Cost</b> |
|----------------------------------|--|---------------------------|-----------------------------|-------------|
| Auchinyell Road - Broomhill Road | West side from bridge to opposite 324 Broomhill Road. Renew kerbs and resurface footways with bitmac.  | 8                         | 225                         | exempt      |
| Holburn Street                   | East side. Entance to Talisman Oil to Holburn Bar excluding section recently completed outside Tesco Express. Relay stone kerbs and resurface footway with precast concrete slabs. Install bollards.         | 8                         | 200                         | exempt      |
| Endrick Place                    | Renew kerbs and resurface footways with bitmac including removal of two trees.   | 8                         | 269                         | exempt      |
| Wellbrae Terrace                 | East side. Relay stone kerbs and resurface footway in bitmac.  | 8                         | 770                         | exempt      |
| Hopecroft Avenue                 | West side from Hopetown Grange to Hopetown Drive. (excludes driveways at Nos 15 / 17) Renew kerbs and resurface footways with bitmac.  | 8                         | 298                         | exempt      |
| Wellwood Terrace                 | North side. Renew concrete kerbs and resurface footway in bitmac.  | 8                         | 272                         | exempt      |
| Craigievar Place                 | South side, Aboyne Gardens to Craigievar Crescent. Renew kerb and resurface footway with bitmac.   | 8                         | 156                         | exempt      |
| Ardbeck Place                    | North side. Renew kerbs and resurface footways with bitmac.  | 8                         | 336                         | exempt      |
| Ardbeck Place                    | South side. Renew kerbs and resurface footways with bitmac.  | 8                         | 342                         | exempt      |
| Manor Walk                       | West and North side from opposite 17 to Manor Drive. Relay stone kerbs and replace slabs with bitmac.  | 8                         | 559                         | exempt      |
| Girdleness Roads (Phase 3)       | Gregness Gardens West to Lane at bus shelter (at No 122) on south side. Remote footway - Relay whin kerbs (North side only) where necessary. New edging kerbs on south side and resurface footway in bitmac. | 8                         | 330                         | exempt      |
| Girdleness Roads (Phase 4)       | Lane at bus shelter (at No 122) to Ladywell Place on south side. Remote footway - Relay whin kerbs (North side only) where necessary. New edging kerbs on south side and resurface footway in bitmac.        | 8                         | 235                         | exempt      |
| Cattofield Place                 | North side from Back Hilton Road to No 24. Relay stone kerbs and resurface footway with precast concrete slabs.  | 8                         | 1,083                       | exempt      |
| Cattofield Place                 | South side from Cattofield Terrace to Cattofield Gardens. Relay stone kerbs and resurface footway with precast concrete slabs. Remove 3 semi-mature trees.(Not Elms)   | 8                         | 305                         | exempt      |
| Auchinyell Terrace               | East side from Auchinyell Road to Garthdee Drive, reset kerbs and reconstruct footways with bitmac.  | 8                         | 265                         | exempt      |
| Cattofield Place                 | South side from Cattofield Gardens to Back Hilton Road. Relay stone kerbs and resurface footway with precast concrete slabs.   | 8                         | 489                         | exempt      |
| Harlaw Terrace                   | East side. Relay stone kerbs and resurface footway with bitmac. Remove four large mature trees.  | 8                         | 216                         | exempt      |

|   |  |   |      |                   |
|---|--|---|------|-------------------|
| Gardner Road                                | East side from Heatherwick Road to entrance to 145. Renew kerbs and resurface footways with bitmac.  | 8 | 299  | exempt            |
| Auchinyell Gardens                          | Both sides from Auchinyell Road to Garthdee Drive, reset kerbs and reconstruct footways with bitmac. | 8 | 780  | exempt            |
| Countesswells Crescent                      | Inner circle from Countesswells Avenue to o/p 53/55. Renew kerbs and resurface footway in bitmac.    | 7 | 139  | exempt            |
| Stewart Crescent                            | South side from Longlands Place to Whin Park Road. Renew kerbs and resurface footway in bitmac       | 7 | 300  | exempt            |
| Great Southern Road                         | West side from opposite number 119 to Riverside Drive, reset granite kerbs and resurface in bitmac   | 7 | 640  | exempt            |
| Crown Street                                | West side, Springbank Street - Springbank Terrace, renew slabs, reset kerbs, install bollards.       | 7 | 126  | exempt            |
| Dee Street                                  | Union Street to Dee Place, renew slabs and reset kerbs.  | 7 | 1340 | exempt            |
| Kings Gate                                  | South side Angusfield Road to Springfield Road, renew kerbs and resurface footway in bitmac.         | 7 | 340  | exempt            |
| Castle Street                               | At numbers 55-57 renew in labs and setts, both sides of road.  | 7 | 120  | exempt            |
| King Street                                 | West side of road from West North Street to Castle Street reset kerbs and resurface in slabs.        | 7 | 620  | exempt            |
| Skene Street                                | South side Summer Street to Rosemount Viaduct, renew kerbs and resurface footway in slabs            | 7 | 175  | exempt            |
| <b>Capital footways reserve list Total:</b> |  |   |      | <b>£1,167,010</b> |

## **Appendix G - Capital Works Resurfacing: Main List 2019/20**

| <b>Capital budget planned</b>                     |   |                           |                             |             |
|---|---|---------------------------|-----------------------------|-------------|
| <b>Name of Road</b>                               | <b>Location and Description of Works</b>  | <b>Assessed condition</b> | <b>Area (m<sup>2</sup>)</b> | <b>Cost</b> |
| Union Terrace                                     | Slip Road off Rosemount Viaduct - resurface carriageway                                   | Red                       | 450                         | exempt      |
| Malcolm Road                                      | Areas between A93 and The Bush  | Red/Amber/Green           | 900                         | exempt      |
| Old Ferry Road                                    | North Deeside Road toward Main of Newton Dee, carriageway resurfacing                     | Visual Inspection         | 1040                        | exempt      |
| Wellington Road                                   | Souter Head Road roundabout (Altens roundabout) carriageway resurfacing                   | Red/Amber/Green           | 2570                        | exempt      |
| Wellington Road -                                 | Northbound section from Nigg roundabout to Altens roundabout, carriageway reconstruction. | Red/Amber/Green           | 6250                        | exempt      |
| South Esplanade West                              | Resurface carriageway   | Amber                     | 4400                        | exempt      |
| Park Street                                       | Frederick Street - Park Place   | Red/Amber                 | 1100                        | exempt      |
| West North Street                                 | St Clair Street to Mounthooly roundabout  | Visual Inspection         | 3060                        | exempt      |
| Waverley Lane                                     | Resurface and drainage at rear number 22 Waverley Place                                   | Visual Inspection         | 895                         | exempt      |
| Powis Circle                                      | Resurface carriageway   | Red/Amber/Green           | 1800                        | exempt      |
| B999 Tarves Road                                  | Mundurno to Denmore Road carriageway resurfacing  | Red/Amber                 | 5540                        | exempt      |
| Fairley Road Kingswells,                          | Old Skene Road to link road, resurface carriageway  | Visual Inspection         | 825                         | exempt      |
| Kings Gate/Queens Road Roundabout                 | Carriageway resurfacing   | Red/Amber                 | 2150                        | exempt      |
| Westburn Road                                     | Bonnymuir Place to number 181, carriageway resurfacing                                    | Red/Amber/Green           | 3425                        | exempt      |
| Willowpark Crescent                               | Loop no.12 to 44, resurface carriageway   | Visual Inspection         | 1060                        | exempt      |
| Burnieboozle Crescent                             | Number 60 to Craigiebuckler Drive, carriageway resurfacing                                | Red/Amber/Green           | 2300                        | exempt      |
| West / East Craibstone Street + Bon Accord Square | Carriageway repairs.  | Red/Amber                 | 400                         | exempt      |
| Countesswells Road                                | Blacktop Road to Countesswells Avenue - structural repairs                                | Visual Inspection         | 730                         | exempt      |
| Thorn Grove Avenue                                | Great Western Road to Seafield Road, carriageway resurfacing                              | Red/Amber/Green           | 3100                        | exempt      |
| Grampian Road - Phase 1 of 2                      | Victoria Road to Grampian Place.  | Visual Inspection         | 4300                        | exempt      |
| Gallowgate Car Park                               | Resurface carriageway   | Visual Inspection         | 3240                        | exempt      |
| Shapinsay Road                                    | Resurface carriageway   | Visual Inspection         | 1136                        | exempt      |
| Forest Avenue                                     | Queens Road to Cromwell Road, Reconstruct carriageway                                     | Red/Amber/Green           | 3700                        | exempt      |
| St Machar Road                                    | Resurface carriageway   | Red/Amber/Green           | 2800                        | exempt      |
| Linkfield Road                                    | Ardarroch Place to King Street  | Red/Amber                 | 1950                        | exempt      |
| Golf Road   | North Deeside Road-Golf Road bridge-16 Golf Road, carriageway resurfacing                 | Visual Inspection         | 690                         | exempt      |



|  |  |                   |      |                   |
|--|--|-------------------|------|-------------------|
| Charleston Road, Cove                            | Charleston Crescent to Wellington Crescent west side only, carriageway resurfacing.  | Visual Inspection | 1860 | exempt            |
| Deeview Road South                               | Resurface carriageway  | Visual Inspection | 1200 | exempt            |
| Links Road                                       | Urquhart Road to Beach Ballroom car park   | Red/Amber         | 1750 | exempt            |
| Crown Crescent                                   | Loop from Coronation Road Including St Ronans Drive Junction, resurface carriageway. | Red/Amber/Green   | 2350 | exempt            |
| <b>Total capital budget planned resurfacing:</b> |  |                   |      | <b>£2,288,000</b> |

## Appendix H - Capital Resurfacing: Reserve List 2019/20

| Name of Road                       | Location and Description of Works                                      | Assessed condition | Area (m <sup>2</sup> ) | Cost   |
|------------------------------------|--|--------------------|------------------------|--------|
| Elphinstone Road and Meston Walk   | Carriageway repairs  | Red/Amber/Green    | 1525                   | exempt |
| Kirk brae                          | Kirk Place to Burnbank, resurface carriageway                          | Red/Amber          | 3450                   | exempt |
| Kirk brae                          | Burnbank to Countesswells Road, resurface carriageway                  | Red/Amber          | 8120                   | exempt |
| Roundabout at Beach Ballroom       | Resurface carriageway  | Visual Inspection  | 1270                   | exempt |
| Old Stonehaven Road -              | From boundary northwards, resurface carriageway                        | Amber              | 4800                   | exempt |
| Great Southern Road                | Murray Terrace to Windhill Road, north bound, reconstruct carriageway  | Red/Amber/Green    | 1600                   | exempt |
| Binghill Crescent, eastern section | Eastern section  | Visual Inspection  | 1500                   | exempt |
| Pittodrie Place                    | From Ardarroch Road to no. 30, resurface carriageway                   | Visual Inspection  | 750                    | exempt |
| Hammersmith Lane                   | Rear of Broomhill School   | Visual Inspection  | 515                    | exempt |
| Milltimber Brae East               | Resurface carriageway  | Visual Inspection  | 1150                   | exempt |
| Manse Road - structural repairs    | Carriageway repairs  | Visual Inspection  | 780                    | exempt |
| Greyhope Road                      | Structural repairs   | Visual Inspection  | 900                    | exempt |
| Albyn Lane                         | Structural repairs   | Visual Inspection  | 920                    | exempt |
| North Deeside Road                 | Rob Roy Bridge to boundary, carriageway resurfacing                    | Amber              | 3200                   | exempt |
| Mansefield Road                    | Glenbervie Road to Balnagask Road                                      | Amber              | 2250                   | exempt |
| Kirkhill Place                     | Ladywell Place eastwards.  | Visual Inspection  | 1150                   | exempt |
| Shielhill Road                     | B997-B999, carriageway repairs   | Visual Inspection  | 1250                   | exempt |
| Earlswells Road                    | Earlswell Drive eastwards, carriageway resurfacing                     | Visual Inspection  | 1165                   | exempt |
| Loirsbank Road                     | Deeview Road South to Inchgarth Road - West end,                       | Visual Inspection  | 2100                   | exempt |
| Wellington Road                    | Grampian Place to Balnagask Road, south bound, carriageway resurfacing | Amber              | 3300                   | exempt |
| Colthill Circle                    | Carriageway repairs  | Visual Inspection  | 1225                   | exempt |
| Cults Avenue                       | Sections near Hilltop Avenue, carriageway repairs.                     | Visual Inspection  | 850                    | exempt |
| Hutcheon Low Drive / Place         | Car Park access road to number 93                                      | Visual Inspection  | 1635                   | exempt |
| Inchbrae Drive and Inchbrae Road   | Carriageway resurfacing  | Red/Amber/Green    | 3530                   | exempt |
| Cranford Road                      | Great Western Road to Broomhill Road, carriageway resurfacing          | Red/Amber/Green    | 4500                   | exempt |
| Westburn Road                      | A90 to Raeden Park Road westbound lanes carriageway resurfacing        | Red/Amber/Green    | 5300                   | exempt |

|                              |   |                   |      |        |
|------------------------------|---|-------------------|------|--------|
| Hutcheon Street-             | George Street to Berryden Road, carriageway resurfacing               | Red/Amber/Green   | 3600 | exempt |
| Great Western Place          | Carriageway resurfacing, excluding parking area on north side.        | Red/Amber/Green   | 1200 | exempt |
| Hareness Road                | South of Minto Road, resurface carriageway                            | Amber/Green       | 1650 | exempt |
| Guild Street                 | Resurface carriageway, south lane-Market Street to Bus Station.       | Visual Inspection | 410  | exempt |
| Queen Street.                | Great Northern Road to Clifton Road, carriageway resurfacing          | Visual Inspection | 850  | exempt |
| Broomhill Road               | Number 126 to 20m west of Gray Street.                                | Visual Inspection | 1660 | exempt |
| Beaconsfield Place           | Carriageway resurfacing   | Visual Inspection | 3600 | exempt |
| Walker Lane Torry            | Carriageway resurfacing   | Visual Inspection | 650  | exempt |
| Granville Place              | Great Western Road south to Great Western Lane, resurface carriageway | Red/Amber/Green   | 535  | exempt |
| Grampian Road - Phase 2 of 2 | Grampian Place to Polwarth Road                                       | Visual Inspection | 2300 | exempt |
| St Swithin Street            | Queen Road to Union Grove, carriageway resurfacing                    | Red/Amber/Green   | 4000 | exempt |
| Lee Crescent North           | Carriageway resurfacing   | Visual Inspection | 8100 | exempt |
| Great Southern Road          | Provost Watt Drive to Stonehaven Road, carriageway reconstruction     | Red/Amber/Green   | 3600 | exempt |
| Union Street Bus Lane        | Union Row to Diamond Street, reconstruct carriageway                  | Amber/green       | 870  | exempt |
| Market Street                | North Esplanade West to Poynerook Road, resurface carriageway         | Red/Amber/Green   | 2350 | exempt |
| Riverview Drive              | Overton Circle to Netherview Avenue                                   | Red/Amber/Green   | 6975 | exempt |
| Hilton Drive                 | Hilton Road to Rosehill Drive, carriageway resurfacing                | Red/Amber/Green   | 8900 | exempt |
| Albyn Grove                  | Albyn Place to Union Grove, carriageway resurfacing                   | Red/Amber/Green   | 1950 | exempt |
| Albyn Place                  | Union St to Albyn Grove, carriageway resurfacing                      | Red/Amber/Green   | 1300 | exempt |
| Summer Street Car Park       | Resurfacing   | Visual Inspection | 635  | exempt |
| Victoria Road, Torry         | Mansefield Road to Sinclair Road, carriageway resurfacing             | Amber/Green       | 6100 | exempt |
| St Fitticks Road             | Greyhope Road to Greyhope Road, carriageway repairs                   | Red/Amber/Green   | 1900 | exempt |
| Ivanhoe Road                 | Carriageway repairs, odd numbers side strip only                      | Visual Inspection | 1400 | exempt |
| Kings Gate                   | Gordondale Road to Oakhill Road, carriageway resurfacing              | Red/Amber         | 3425 | exempt |
| Polmuir Road                 | Devanha Gardens to Polmuir Avenue, carriageway resurfacing            | Visual Inspection | 2540 | exempt |
| Rosemount Place              | Westfield Road to Eden Place, carriageway resurfacing                 | Red/Amber/Green   | 5100 | exempt |
| Old Lang Stracht Road U205C  | Lang Stracht westwards, carriageway resurfacing                       | Visual Inspection | 5600 | exempt |
| Kings Gate                   | A90 to Westholm Avenue, carriageway resurfacing                       | Red/Amber/Green   | 4200 | exempt |

|   |   |                   |      |                   |
|---|---|-------------------|------|-------------------|
| North Anderson Drive, Service Roads           | Carriageway repairs   | Visual Inspection | 3250 | exempt            |
| Viewfield Avenue                              | Carriageway repairs   | Visual Inspection | 1300 | exempt            |
| Seafield Avenue                               | Carriageway repairs   | Visual Inspection | 1230 | exempt            |
| Summer Street                                 | Huntly Street Skene Street, carriageway resurfacing                   | Visual Inspection | 1400 | exempt            |
| Skene Street                                  | Rosemount viaduct junction, resurface carriageway                     | Visual Inspection | 1900 | exempt            |
| Invercauld Gardens                            | Resurface carriageway pothole areas                                   | Visual Inspection | 265  | exempt            |
| Six Roads roundabout and lead in roads        | Resurface carriageway   | Amber             | 3940 | exempt            |
| C55C Pitmedden Road                           | Phase 1 of 2, various locations, structural carriageway strengthening | Visual Inspection | 2980 | exempt            |
| U058C Caskieben Road                          | Phase 1 of 2, various locations, structural carriageway strengthening | Visual Inspection | 2500 | exempt            |
| U149C Anguston Road                           | Various locations, structural carriageway strengthening               | Visual Inspection | 800  | exempt            |
| Dee Street                                    | Union St to Dee Place carriageway resurfacing                         | Visual Inspection | 3200 | exempt            |
| Grandholm Drive/Balgownie Drive               | Various locations, structural carriageway strengthening               | Visual Inspection | 850  | exempt            |
| C150C Landerberry Road                        | Various locations, structural carriageway strengthening               | Visual Inspection | 1560 | exempt            |
| U149C Linmoor Road                            | Various locations, structural carriageway strengthening               | Visual Inspection | 800  | exempt            |
| U090C Tulloch Road                            | Phase 2 of 3, various locations, structural carriageway strengthening | Visual Inspection | 2940 | exempt            |
| U182C Christie Grange Road                    | Various locations, structural carriageway strengthening               | Visual Inspection | 500  | exempt            |
| <b>Capital resurfacing reserve list total</b> |   |                   |      | <b>£6,468,480</b> |

## **Appendix J1 - Capital Drainage: Programme 2019/20**

| <b>Name of Road</b>           | <b>Location &amp; Description of Works</b>                | <b>Estimated Cost</b> |
|-------------------------------|---|-----------------------|
| Derry Place                   | Outside number 12, additional gully and drainage.         | exempt                |
| Seafield Drive West           | Outside number 23 additional gully and drainage           | exempt                |
| Garthdee Road                 | Ponding near ASDA bus stop, reshape road and gullies.     | exempt                |
| Holburn Street                | Junction of Ruthrieston Road                              | exempt                |
| Westburn Road                 | Junction with Mount Street                                | exempt                |
| Donstreet Woodside            | Various ponding issues                                    | exempt                |
| Contlaw Road                  | Drainage refurbishment                                    | exempt                |
| Various locations             | Unallocated to resolve serious flooding or ponding issues | exempt                |
| Various locations             | Replacement of gullies                                    | exempt                |
| <b>Capital drainage total</b> |   | <b>£90,000</b>        |

## **Capital Drainage: Reserve Programme 2019/20**

| <b>Name of Road</b>                   | <b>Location &amp; Description of Works</b>                  | <b>Estimated Cost</b> |
|---------------------------------------|---|-----------------------|
| Dunbar Street                         | Additional gullies to resolve ponding area                  | exempt                |
| Meston Walk                           | At College Bounds additional gullies.                       | exempt                |
| Wellington Road                       | Ponding at Argyll   | exempt                |
| Airyhall Drive                        | Near number 18 additional gully and drainage                | exempt                |
| Howes Road                            | Additional drainage and gullies to resolve drainage issues. | exempt                |
| Various locations                     | Unallocated to resolve serious flooding or ponding issues   | exempt                |
| Various locations                     | Replacement of gullies                                      | exempt                |
| <b>Capital drainage reserve total</b> |   | <b>£128,000</b>       |

## **Appendix K - Capital Works: Major Bridge Repairs 2019/20**

| <b>Location &amp; Description of Works</b> | <b>Estimated Cost</b> |
|--|-----------------------|
| Charleston culvert                         | exempt                |
| Parkhill Armco culvert                     | exempt                |
| <b>Total</b>                               | <b>£180,000</b>       |

### **Capital Works Other Un-Programmed Budgets**

| <b>Location &amp; Description of Works</b>         | <b>Estimated Cost</b> |
|--|-----------------------|
| Road sign replacement                              | exempt                |
| Weak bridge repairs (Victoria Bridge re-surfacing) | exempt                |
| <b>Total</b>                                       | <b>£80,000</b>        |

## **Appendix L - Flooding and Coastal Protection Capital Works 2019/20**

| <b>Project</b>                               | <b>Estimated Cost</b> |
|--|-----------------------|
| Integrated Catchment/SWMP                    | exempt                |
| Peterculter - Study & detailed design        | exempt                |
| Inchgarth Hake installation                  | exempt                |
| Deeside Court – valve installation           | exempt                |
| Software purchase                            | exempt                |
| Sepa / Denburn match funding                 | exempt                |
| River Don flood plain study                  | exempt                |
| Jesmond - study                              | exempt                |
| Denburn - study                              | exempt                |
| Begin Project – match funding                | exempt                |
| Score Project –river gauging                 | exempt                |
| Langstracht Drainage / Summerhill            | exempt                |
| Various minor works                          | exempt                |
| Personal Flood Protection - Grant            | exempt                |
| Sea Wall – survey / study & minor repairs    | exempt                |
| Kingswells Old Skene Road                    | exempt                |
| Reinstatement coastal defences Greyhope Road | exempt                |
| <b>Total</b>                                 | <b>£1,360,000</b>     |

## Appendix N - Additional Investment in Roads 2019/20

| <b>Additional Capital Investment in Carriageway Resurfacing/Repairs</b> |  |                           |                             |                   |
|---|--|---------------------------|-----------------------------|-------------------|
| <b>Name of Road</b>   | <b>Location and Description of Works</b>   | <b>Assessed condition</b> | <b>Area (m<sup>2</sup>)</b> | <b>Cost</b>       |
| Kirk Brae   | North Deeside Road to Kirk Place, resurface carriageway                                      | Red/Amber/Green           | 3100                        | exempt            |
| College Bounds  | From University Road northwards for 50 metres.   | Red                       | 320                         | exempt            |
| Salisbury Terrace   | Broomhill Road - Great Western Road, resurface carriageway                                   | Red/Amber/Green           | 2300                        | exempt            |
| Deeside Park  | Resurface carriageway  | Visual Inspection         | 960                         | exempt            |
| Cairnaquheen Gardens  | Loops to the west of the road 4-20, 26-40, resurface carriageway                             | Visual Inspection         | 450                         | exempt            |
| The Meadows, western section  | Oldfold Walk- Oldfold Crescent, carriageway resurfacing                                      | Visual Inspection         | 1300                        | exempt            |
| Contlaw Road  | Phase 2 of 3 (West of Malcolm Road), various locations, structural carriageway strengthening | Visual Inspection         | 2430                        | exempt            |
| Western Road,   | Hilton Drive to Clifton Road, reconstruct carriageway  | Amber                     | 1800                        | exempt            |
| U131B Bishopdams Road   | Phase 1 of 2, various locations, structural carriageway strengthening                        | Visual Inspection         | 3150                        | exempt            |
| U090C Tulloch Road  | Phase 1 of 3, various locations, structural carriageway strengthening                        | Visual Inspection         | 2940                        | exempt            |
| Woodburn Avenue   | Springfield Road to Woodburn Place, resurface carriageway                                    | Visual Inspection         | 3600                        | exempt            |
| Mastrick Road   | No. 47 to A90  | Visual Inspection         | 770                         | exempt            |
| Golf Road   | From north of Regent Walk to Park Road, carriageway resurfacing                              | Red/Amber/Green           | 7350                        | exempt            |
| Ardarroch Road  | Resurface carriageway  | Visual Inspection         | 2589                        | exempt            |
| City wide works in conjunction with developers.                         | Various locations  | Visual Inspection         | 900                         | exempt            |
| City wide works in conjunction with utility companies                   | Various locations  | Visual Inspection         | 450                         | exempt            |
| Structural repairs at bus stops   | Various locations  | Visual Inspection         | 950                         | exempt            |
| Structural repairs at Traffic Calming                                   | Various locations  | Visual Inspection         | 1100                        | exempt            |
| Structural repairs at Junctions   | Various locations  | Visual Inspection         | 1400                        | exempt            |
| <b>Total:</b>   |  |                           |                             | <b>£1,545,550</b> |

| <b>Additional Capital Investment in Junctions, Utility Tracks, Recurring Pothole areas</b> |   |                           |                             |             |
|--|---|---------------------------|-----------------------------|-------------|
| <b>Name of Road</b>  | <b>Location and Description of Works</b>                        | <b>Assessed condition</b> | <b>Area (m<sup>2</sup>)</b> | <b>Cost</b> |
| Victoria Street, Dyce  | Junction with Farburn Terrace, resurface carriageway            | Amber                     | 1220                        | exempt      |
| North Deeside Road   | Junction with Cairn Road, resurface carriageway                 | Red                       | 900                         | exempt      |
| North Deeside Road   | Junction with Quarry Road, resurface carriageway                | Amber                     | 920                         | exempt      |
| North Deeside Road   | Junction with Bailliewells Road, resurface carriageway          | Amber                     | 1130                        | exempt      |
| Greenfern Road   | Fernhill Drive eastwards for 100m, resurface carriageway        | Visual Inspection         | 750                         | exempt      |
| Beach Boulevard  | Esplanade / junction (southbound), resurface carriageway        | Visual Inspection         | 1680                        | exempt      |
| Elmbank Terrace  | Canal Road junction, resurface carriageway                      | Red                       | 700                         | exempt      |
| Stoneywood Road  | Wellheads Avenue roundabout at BP access, resurface carriageway | Visual Inspection         | 375                         | exempt      |



|                       |   |                     |      |                 |
|-----------------------|---|---------------------|------|-----------------|
| Stoneywood Road       | Junction with A947 (area extends underneath rail bridge), resurface carriageway   | Visual Inspection   | 550  | exempt          |
| Marchburn Drive       | Junction with Granitehill Road towards Provost Rust drive, resurface carriageway  | Visual Inspection   | 450  | exempt          |
| Derry Avenue          | At Condovan Terrace, resurface carriageway  | Visual Inspection   | 890  | exempt          |
| Provost Graham Avenue | At Queens Road approach to signals, resurface carriageway                         | Visual Inspection   | 300  | exempt          |
| Clova Park            | Junction with Kingswells Drive pas Clova Crescent, resurface carriageway          | Visual Inspection   | 310  | exempt          |
| Queens Den            | From Queens Road junction to passed Denseat Court junction, resurface carriageway | Amber               | 575  | exempt          |
| Viewfield Road -      | Viewfield Gardens to Number 18 and Leg to Seafield Avenue, resurface carriageway  | Red/Amber/<br>Green | 2403 | exempt          |
| Holburn Street        | South Anderson Drive Roundabout, resurface carriageway                            | Visual Inspection   | 230  | exempt          |
| Viewfield Crescent    | Countesswells road junction, resurface carriageway                                | Visual Inspection   | 340  | exempt          |
| <b>Total:</b>         |   |                     |      | <b>£577,274</b> |

### Additional Investment in Footways

| Name of Road               | Location and Description of Works   | Assessed condition | Area (m <sup>2</sup> ) | Cost            |
|----------------------------|---|--------------------|------------------------|-----------------|
| Girdleness Roads (Phase 1) | Gregness Gardens West to Lane at bus shelter (at No 66) on south side. Remote footway - Relay whin kerbs (North side only) where necessary. New edging kerbs on south side and resurface footway in bitmac. | 9                  | 305                    | exempt          |
| Girdleness Roads (Phase 2) | Fernie Brae to Lane at bus shelter (at no 66) on south side. Remote footway - Relay whin kerbs (North side only) where necessary. New edging kerbs on south side and resurface footway in bitmac.           | 9                  | 320                    | exempt          |
| Kildrummy Road             | Inner footway from number 1 to Kinkell Road. Renew kerbs and reconstruct footway with bitmac.   | 9                  | 440                    | exempt          |
| Crown Crescent             | Both sides Coronation Road to Crown Crescent renew kerbs and resurface in bitmac.   | 8                  | 852                    | exempt          |
| Orchard Road               | West side from Orchard Walk to Orchard Street. Relay stone kerbs and resurface footway in bitmac.   | 8                  | 332                    | exempt          |
| Craigielea Avenue          | East side. Renew kerbs and resurface footways with bitmac   | 8                  | 141                    | exempt          |
| Windford Road              | South side Renew kerbs and resurface footway in bitmac  | 8                  | 346                    | exempt          |
| Corndavon Terrace          | Middle Section south side from Derry Place to Derry Avenue including end corners. Renew kerbs and resurface footway with bitmac.  | 8                  | 425                    | exempt          |
| Seamount Place             | Remove top surface and overlay with 50mm bitmac. (Alternative is to retread depending on rates)   | 8                  | 412                    | exempt          |
| Moray Place                | West side from Carnegie Crescent to Rubislaw Den North. Renew kerbs and resurface footways with bitmac.   | 8                  | 305                    | exempt          |
| Orchard Road               | East side from University Road to lane. Relay stone kerbs and replace slabs with bitmac.  | 8                  | 113                    | exempt          |
| Strathmore Drive           | North side (East) from No 22 to 40. Renew kerbs and resurface footway in bitmac.  | 8                  | 137                    | exempt          |
| Countesswells Road         | In front of 209 - 219. Resurface footway in bitmac.(No kerbing required)  | 8                  | 126                    | exempt          |
| Arnage Place               | East side from Arnage Drive to Mastrick Road.Renew kerbs and resurface footways with bitmac.  | 8                  | 129                    | exempt          |
| North Deeside Road         | Various location, renew surface in bitmac   | 6                  | 400                    | exempt          |
| <b>Total:</b>              |   |                    |                        | <b>£377,176</b> |

## Summary

|   |                   |
|---|-------------------|
| <b>Additional capital investment in carriageways:</b> | <b>£2,122,824</b> |
| <b>Additional capital investment in footways:</b>     | <b>£377,176</b>   |
| <b>Total additional capital investment in roads:</b>  | <b>£2,500,000</b> |

**Appendix O: AWPR Contribution to resurfacing and repair works. C / F from 2018-19**

| <b>Name of Road</b>                 | <b>Location and Description of Works</b>                | <b>Assessed condition</b> | <b>Area (m<sup>2</sup>)</b> | <b>Cost</b> |
|-------------------------------------|---|---------------------------|-----------------------------|-------------|
| B999 Tarves Road                    | Crannies Neuk to Mundurno                               | Red/Amber/Green           | 5200                        | exempt      |
| C133C Culterhouse Road east section | Various locations, structural carriageway strengthening | Visual Inspection         | 150                         | exempt      |

**Total AWPR related resurfacing**

**£250,000**

Works to Contlaw and Culterhouse Roads included in additional investment projects.

**Appendix P - Summary Capital Works 2019/20**

|   |                    |
|---|--------------------|
| <b>Traffic signal refurbishment programme:</b>                      | <b>£400,000</b>    |
| <b>Lighting Programme:</b>  | <b>£2,500,000</b>  |
| <b>CWSS Capital Grant: Road Safety programme &amp; 20mph signs:</b> | <b>£374,000</b>    |
| <b>Footway resurfacing programme:</b>                               | <b>£588,000</b>    |
| <b>Carriageway resurfacing programme:</b>                           | <b>£2,288,000</b>  |
| <b>Drainage programme:</b>  | <b>£90,000</b>     |
| <b>Major bridge repairs:</b>  | <b>£180,000</b>    |
| <b>Road sign replacement:</b>                                       | <b>£30,000</b>     |
| <b>Weak bridge repairs:</b>   | <b>£50,000</b>     |
| <b>Flooding and coastal protection:</b>                             | <b>£1,360,000</b>  |
| <b>Additional capital investment in roads:</b>                      | <b>£2,500,000</b>  |
| <b>Total</b>  | <b>£10,360,000</b> |
| <b>AWPR related repairs: C / F from 2018-19</b>                     | <b>£250,000</b>    |
| <b>Total</b>  | <b>£10,610,000</b> |

## **Appendix Q - Road Condition Index**

From 2004, a carriageway condition Statutory Performance Indicator (SPI) was introduced across Scotland. This indicator is:

**“The percentage of the road network that should be considered for maintenance treatment.”**

The Road Condition Index (RCI) is the figure reported for the SPI and is produced from a Scotland wide survey. The SRMCS survey information is collected and processed centrally by an independent contractor engaged by SCOTS. Surveys are undertaken annually by means of machine-based measurement on a specified sample of each council's road network. All survey vehicles are independently calibrated by the Transport Research Laboratory including periodic calibration checks during the survey season.

Survey coverage of the road network is detailed in the SPI and Audit Scotland has approved both the survey methodology and the agreed percentages of road surveyed to ensure a statistically reliable SPI. Survey coverage is carried out as follows:

- **A Class Roads** are surveyed in both directions every two years that is one direction in one year and the opposite direction the next year.
- **B and C Class Roads** in both directions over a four year period; that is 50% of the B and C Class network is surveyed in one direction in one year; 50% in one direction in year two; then the first 50% in the opposite direction in year three and so on.
- **Unclassified Roads** have a 10% random sample undertaken on an annual basis selected by the survey contractor. Short sections of such roads are excluded from the survey.

Following some refinements to the road condition assessment system a number of technical parameters were revised in 2008. While the surveys are undertaken on an annual basis, the RCI is now calculated over a two year rolling period to minimise the effect of sampling errors on the results.

In relation to the RCI, 'considered for maintenance treatment' means there is likely to be some defect in the condition of the road, but authorities will need to carry out more detailed investigations and prioritisation of need in the development of their future road maintenance programmes.

The results are categorised into Green, Amber and Red condition bands where:

- **Green** indicates the carriageway is generally in a good state of repair.
- **Amber** indicates the carriageway has some deterioration which should be investigated to determine the optimum time for planned maintenance treatment.
- **Red** indicates the carriageway has lengths in poor overall condition which are likely to require planned maintenance soon.

The RCI figure includes both the Amber and Red categories. An increase in the figure indicates deterioration and a decrease indicates improvement.

**Appendix R** shows the Road Condition Index for 2016 - 2018 taking into account the four year unclassified roads condition.

Road Condition Index for this period is 30.3%. This mean that approx. 271km of roads within the city were in need of some form of repair.

The chart shows that Aberdeen City was 6<sup>th</sup> in Scotland for this two year period

**Appendix S** shows the Road Condition Index for 2017 - 2019 taking into account the four year unclassified roads condition.

Road Condition Index for this period is 30.2%. This mean that approx. 270km of roads within the city are in need of some form of repair. The chart shows that Aberdeen City was 7<sup>th</sup> in Scotland for this two year period The comparison of these two figures shows that the road condition broadly steady. improved.

**Appendix T & U** shows the Road Condition Index for the single year

Road Condition Index for this period is 29.9%. This means that approximately 250km of roads within the city were in need of some form of repair. This figure is considered to give some inaccuracies and is not used in the annual SPI Index although it will be used in future calculations.

**Appendix V** shows the movement in the Road Condition Index between 2004 and 2019.

The graphs show the movement in each road classification along with a comparator to the whole Scottish network. These graphs show that, in the main, the roads in Aberdeen are above the national average but "A" class roads have dropped in Red and Amber, with "B" class remaining the same and "C" class rising.

# Appendix R

RCI Results 2016\_18 (4 years data for Unclassified Roads)

| Authority          | Random No.     | A Roads     |              |              |             | B Roads     |              |              |             | C Roads     |              |              |             | All Classified Roads |              |              |             | U Roads     |              |              |             |             |              |              |             |
|--------------------|----------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|----------------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|
|                    |                | Red         | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         | Red                  | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         |             |              |              |             |
|                    | 19             | 1.75        | 18.03        | 80.21        | 19.8        | 2.02        | 20.37        | 77.61        | 22.4        | 2.77        | 18.14        | 79.08        | 20.9        | 2.14                 | 14.11        | 83.76        | 16.2        | 2.35        | 17.60        | 80.05        | 19.9        | 1.07        | 18.54        | 80.39        | 19.6        |
|                    | 30             | 3.27        | 22.08        | 74.65        | 25.3        | 1.56        | 13.62        | 84.82        | 15.2        | 0.62        | 16.32        | 83.06        | 16.9        | 1.17                 | 13.26        | 85.58        | 14.4        | 1.23        | 13.60        | 85.17        | 14.8        | 4.30        | 26.36        | 69.33        | 30.7        |
|                    | 15             | 3.36        | 22.81        | 73.83        | 26.2        | 3.14        | 23.48        | 73.38        | 26.6        | 2.39        | 21.65        | 75.96        | 24.0        | 2.40                 | 19.61        | 77.99        | 22.0        | 2.56        | 21.03        | 76.41        | 23.6        | 4.36        | 25.05        | 70.58        | 29.4        |
|                    | 10             | 3.68        | 24.23        | 72.09        | 27.9        | 2.97        | 22.90        | 74.13        | 25.9        | 2.03        | 21.46        | 76.51        | 23.5        | 2.84                 | 22.04        | 75.11        | 24.9        | 2.57        | 22.00        | 75.43        | 24.6        | 4.90        | 26.70        | 68.39        | 31.6        |
|                    | 26             | 3.82        | 25.57        | 70.61        | 29.4        | 2.16        | 19.45        | 78.39        | 21.6        | 3.98        | 26.72        | 69.29        | 30.7        | 8.62                 | 36.44        | 54.94        | 45.1        | 4.67        | 26.79        | 68.54        | 31.5        | 3.28        | 24.81        | 71.91        | 28.1        |
| <b>Aberdeen</b>    | <b>7</b>       | <b>5.10</b> | <b>25.18</b> | <b>69.71</b> | <b>30.3</b> | <b>3.14</b> | <b>19.51</b> | <b>77.36</b> | <b>22.6</b> | <b>3.03</b> | <b>19.41</b> | <b>77.55</b> | <b>22.4</b> | <b>5.07</b>          | <b>22.35</b> | <b>72.58</b> | <b>27.4</b> | <b>4.08</b> | <b>20.91</b> | <b>75.01</b> | <b>25.0</b> | <b>5.41</b> | <b>26.45</b> | <b>68.14</b> | <b>31.9</b> |
|                    | 32             | 4.40        | 26.13        | 69.47        | 30.5        | 3.23        | 25.06        | 71.71        | 28.3        | 1.71        | 19.74        | 78.55        | 21.5        | 2.09                 | 18.19        | 79.71        | 20.3        | 2.45        | 20.93        | 76.61        | 23.4        | 5.10        | 28.00        | 66.90        | 33.1        |
|                    | 22             | 4.96        | 26.82        | 68.22        | 31.8        | 2.23        | 21.76        | 76.01        | 24.0        | 4.65        | 31.21        | 64.13        | 35.9        | 4.56                 | 25.62        | 69.81        | 30.2        | 4.08        | 26.28        | 69.64        | 30.4        | 5.93        | 27.43        | 66.64        | 33.4        |
|                    | 1              | 4.09        | 27.71        | 68.20        | 31.8        | 4.37        | 25.54        | 70.09        | 29.9        | 5.26        | 28.52        | 66.22        | 33.8        | 2.79                 | 25.56        | 71.65        | 28.3        | 4.10        | 26.53        | 69.37        | 30.6        | 4.08        | 28.57        | 67.35        | 32.6        |
|                    | 28             | 4.44        | 27.37        | 68.18        | 31.8        | 2.55        | 20.34        | 77.11        | 22.9        | 2.53        | 21.94        | 75.53        | 24.5        | 5.48                 | 31.62        | 62.90        | 37.1        | 3.88        | 25.87        | 70.25        | 29.7        | 4.87        | 28.49        | 66.64        | 33.4        |
|                    | 11             | 4.40        | 27.49        | 68.10        | 31.9        | 3.24        | 23.58        | 73.18        | 26.8        | 1.36        | 17.20        | 81.44        | 18.6        | 4.25                 | 26.33        | 69.42        | 30.6        | 3.34        | 23.69        | 72.97        | 27.0        | 4.78        | 28.85        | 66.37        | 33.6        |
|                    | 5              | 4.61        | 28.13        | 67.26        | 32.7        | 1.90        | 18.45        | 79.65        | 20.3        | 3.06        | 21.27        | 75.67        | 24.3        | 3.46                 | 24.20        | 72.34        | 27.7        | 2.88        | 21.70        | 75.42        | 24.6        | 5.57        | 31.70        | 62.73        | 37.3        |
|                    | 25             | 4.73        | 28.11        | 67.16        | 32.8        | 3.31        | 21.70        | 74.99        | 25.0        | 3.78        | 26.68        | 69.54        | 30.5        | 4.48                 | 28.67        | 66.85        | 33.2        | 3.87        | 25.80        | 70.33        | 29.7        | 5.37        | 29.85        | 64.77        | 35.2        |
|                    | 27             | 6.06        | 27.84        | 66.10        | 33.9        | 2.96        | 20.80        | 76.24        | 23.8        | 2.72        | 23.26        | 74.02        | 26.0        | 8.49                 | 29.05        | 62.46        | 37.5        | 5.80        | 25.70        | 68.51        | 31.5        | 6.19        | 28.90        | 64.91        | 35.1        |
|                    | 2              | 4.59        | 29.56        | 65.86        | 34.1        | 2.96        | 26.31        | 70.73        | 29.3        | 5.97        | 34.33        | 59.70        | 40.3        | 4.23                 | 29.31        | 66.46        | 33.5        | 4.59        | 30.47        | 64.94        | 35.1        | 4.58        | 28.52        | 66.89        | 33.1        |
|                    | 24             | 6.20        | 28.97        | 64.83        | 35.2        | 3.69        | 23.90        | 72.41        | 27.6        | 3.87        | 26.20        | 69.93        | 30.1        | 3.10                 | 23.01        | 73.88        | 26.1        | 3.60        | 24.49        | 71.91        | 28.1        | 7.15        | 30.62        | 62.23        | 37.8        |
|                    | 21             | 5.44        | 29.85        | 64.71        | 35.3        | 1.47        | 17.31        | 81.23        | 18.8        | 6.23        | 28.00        | 65.77        | 34.2        | 3.25                 | 27.81        | 68.95        | 31.1        | 3.39        | 23.83        | 72.78        | 27.2        | 8.05        | 37.51        | 54.44        | 45.6        |
|                    | 31             | 5.97        | 30.40        | 63.63        | 36.4        | 2.49        | 22.58        | 74.93        | 25.1        | 3.07        | 26.32        | 70.61        | 29.4        | 4.28                 | 26.48        | 69.24        | 30.8        | 3.12        | 24.72        | 72.17        | 27.8        | 7.81        | 34.08        | 58.11        | 41.9        |
|                    | 16             | 6.38        | 30.00        | 63.62        | 36.4        | 3.54        | 23.22        | 73.24        | 26.8        | 2.24        | 17.56        | 80.20        | 19.8        | 4.37                 | 25.66        | 69.98        | 30.0        | 3.62        | 23.20        | 73.18        | 26.8        | 7.20        | 32.02        | 60.78        | 39.2        |
| <b>Scotland LA</b> | <b>Average</b> | <b>6.99</b> | <b>29.70</b> | <b>63.31</b> | <b>36.7</b> | <b>4.43</b> | <b>25.73</b> | <b>69.84</b> | <b>30.2</b> | <b>6.47</b> | <b>29.43</b> | <b>64.10</b> | <b>35.9</b> | <b>6.91</b>          | <b>29.25</b> | <b>63.84</b> | <b>36.2</b> | <b>6.06</b> | <b>28.27</b> | <b>65.68</b> | <b>34.3</b> | <b>7.90</b> | <b>31.09</b> | <b>61.01</b> | <b>39.0</b> |
|                    | 4              | 6.05        | 31.14        | 62.81        | 37.2        | 7.03        | 31.92        | 61.05        | 38.9        | 6.65        | 33.60        | 59.75        | 40.2        | 6.39                 | 31.61        | 62.00        | 38.0        | 6.65        | 32.20        | 61.15        | 38.9        | 5.27        | 29.74        | 65.00        | 35.0        |
|                    | 23             | 5.34        | 31.92        | 62.73        | 37.3        | 3.16        | 26.14        | 70.70        | 29.3        | 6.66        | 35.43        | 57.91        | 42.1        | 5.94                 | 34.28        | 59.77        | 40.2        | 5.17        | 31.74        | 63.09        | 36.9        | 5.44        | 32.02        | 62.55        | 37.5        |
|                    | 13             | 7.61        | 29.83        | 62.57        | 37.4        | 1.80        | 15.22        | 82.99        | 17.0        | 4.08        | 27.52        | 68.40        | 31.6        | 8.00                 | 26.47        | 65.53        | 34.5        | 5.61        | 24.66        | 69.74        | 30.3        | 8.70        | 32.64        | 58.66        | 41.3        |
|                    | 29             | 7.09        | 30.80        | 62.11        | 37.9        | 2.68        | 21.42        | 75.90        | 24.1        | 5.08        | 31.05        | 63.87        | 36.1        | 7.50                 | 32.12        | 60.39        | 39.6        | 5.82        | 29.37        | 64.81        | 35.2        | 7.57        | 31.34        | 61.09        | 38.9        |
|                    | 9              | 8.79        | 30.01        | 61.21        | 38.8        | 3.88        | 25.01        | 71.10        | 28.9        | 6.27        | 29.39        | 64.34        | 35.7        | 9.40                 | 30.88        | 59.72        | 40.3        | 6.58        | 28.36        | 65.06        | 34.9        | 11.64       | 32.15        | 56.21        | 43.8        |
|                    | 18             | 8.48        | 30.53        | 60.99        | 39.0        | 2.38        | 17.40        | 80.22        | 19.8        | 6.00        | 29.65        | 64.36        | 35.6        | 8.28                 | 32.17        | 59.54        | 40.5        | 6.00        | 27.72        | 66.28        | 33.7        | 10.79       | 33.16        | 56.05        | 43.9        |
|                    | 17             | 7.63        | 31.51        | 60.86        | 39.1        | 8.36        | 27.86        | 63.78        | 36.2        | 6.22        | 33.03        | 60.75        | 39.2        | 13.14                | 38.15        | 48.71        | 51.3        | 9.77        | 34.19        | 56.04        | 44.0        | 5.87        | 29.31        | 64.82        | 35.2        |
|                    | 3              | 7.97        | 32.99        | 59.04        | 41.0        | 6.21        | 32.00        | 61.79        | 38.2        | 7.92        | 32.79        | 59.29        | 40.7        | 8.12                 | 33.24        | 58.65        | 41.4        | 7.65        | 32.81        | 59.54        | 40.5        | 8.26        | 33.15        | 58.60        | 41.4        |
|                    | 20             | 10.19       | 32.28        | 57.52        | 42.5        | 3.97        | 25.55        | 70.48        | 29.5        | 6.98        | 33.40        | 59.61        | 40.4        | 8.63                 | 33.12        | 58.25        | 41.7        | 6.32        | 30.25        | 63.43        | 36.6        | 14.71       | 34.66        | 50.63        | 49.4        |
|                    | 8              | 7.17        | 36.27        | 56.56        | 43.4        | 7.23        | 28.83        | 63.94        | 36.1        | 5.30        | 31.72        | 62.98        | 37.0        | 6.77                 | 42.04        | 51.19        | 48.8        | 6.65        | 33.09        | 60.26        | 39.7        | 7.81        | 40.25        | 51.94        | 48.1        |
|                    | 6              | 11.79       | 35.53        | 52.68        | 47.3        | 5.49        | 29.44        | 65.06        | 34.9        | 5.56        | 30.42        | 64.01        | 36.0        | 10.64                | 35.67        | 53.69        | 46.3        | 8.04        | 32.79        | 59.17        | 40.8        | 16.96       | 39.28        | 43.76        | 56.2        |
|                    | 12             | 10.17       | 38.37        | 51.45        | 48.5        | 6.21        | 31.77        | 62.02        | 38.0        | 8.61        | 37.77        | 53.62        | 46.4        | 8.47                 | 36.06        | 55.47        | 44.5        | 7.95        | 35.54        | 56.51        | 43.5        | 13.70       | 42.88        | 43.41        | 56.6        |
|                    | 14             | 16.62       | 38.87        | 44.52        | 55.5        | 8.91        | 34.58        | 56.51        | 43.5        | 21.51       | 42.35        | 36.14        | 63.9        | 20.23                | 41.83        | 37.94        | 62.1        | 17.06       | 39.68        | 43.27        | 56.7        | 15.67       | 37.13        | 47.19        | 52.8        |

## Appendix S

### RCI Results 2017\_19 (4 years data for Unclassified Roads)

| Authority<br>Random No | Network     |              |              |             | A Roads     |              |              |             | B Roads     |              |              |             | C Roads     |              |              |             | Classified Roads |              |              |             | U Roads     |              |              |             |
|------------------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|------------------|--------------|--------------|-------------|-------------|--------------|--------------|-------------|
|                        | Red         | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         | Red              | Amber        | Green        | RCI         | Red         | Amber        | Green        | RCI         |
| 19                     | 1.86        | 18.59        | 79.55        | 20.4        | 2.25        | 22.41        | 75.34        | 24.7        | 3.00        | 20.31        | 76.69        | 23.3        | 2.11        | 13.15        | 84.74        | 15.3        | 2.50             | 18.78        | 78.73        | 21.3        | 1.13        | 18.37        | 80.49        | 19.5        |
| 30                     | 3.55        | 22.95        | 73.50        | 26.5        | 1.59        | 18.73        | 79.68        | 20.3        | 2.08        | 21.18        | 76.74        | 23.3        | 1.15        | 12.68        | 86.17        | 13.8        | 1.37             | 15.23        | 83.40        | 16.6        | 4.39        | 25.91        | 69.70        | 30.3        |
| 15                     | 3.61        | 23.46        | 72.92        | 27.1        | 3.05        | 23.91        | 73.04        | 27.0        | 2.60        | 21.94        | 75.45        | 24.5        | 2.57        | 20.26        | 77.17        | 22.8        | 2.69             | 21.53        | 75.78        | 24.2        | 4.77        | 25.90        | 69.33        | 30.7        |
| 10                     | 4.00        | 25.08        | 70.92        | 29.1        | 3.42        | 25.14        | 71.44        | 28.6        | 2.34        | 23.28        | 74.38        | 25.6        | 3.73        | 24.33        | 71.94        | 28.1        | 3.16             | 24.11        | 72.73        | 27.3        | 4.93        | 26.15        | 68.91        | 31.1        |
| 32                     | 4.06        | 25.21        | 70.73        | 29.3        | 3.42        | 25.87        | 70.71        | 29.3        | 1.92        | 18.14        | 79.94        | 20.1        | 2.44        | 17.91        | 79.65        | 20.4        | 2.75             | 21.13        | 76.11        | 23.9        | 4.48        | 26.54        | 68.98        | 31.0        |
| 26                     | 4.23        | 25.65        | 70.13        | 29.9        | 2.28        | 18.93        | 78.80        | 21.2        | 4.05        | 25.89        | 70.06        | 29.9        | 10.91       | 35.70        | 53.39        | 46.6        | 5.42             | 26.10        | 68.48        | 31.5        | 3.53        | 25.38        | 71.09        | 28.9        |
| <b>Aberdeen</b>        | <b>4.74</b> | <b>25.44</b> | <b>69.82</b> | <b>30.2</b> | <b>3.66</b> | <b>21.13</b> | <b>75.21</b> | <b>24.8</b> | <b>3.27</b> | <b>17.63</b> | <b>79.09</b> | <b>20.9</b> | <b>4.42</b> | <b>21.95</b> | <b>73.63</b> | <b>26.4</b> | <b>3.96</b>      | <b>20.79</b> | <b>75.26</b> | <b>24.7</b> | <b>4.97</b> | <b>26.82</b> | <b>68.21</b> | <b>31.8</b> |
| 5                      | 4.20        | 26.26        | 69.54        | 30.5        | 1.71        | 16.33        | 81.96        | 18.0        | 2.84        | 19.61        | 77.55        | 22.5        | 3.30        | 22.82        | 73.88        | 26.1        | 2.70             | 20.01        | 77.29        | 22.7        | 5.03        | 29.70        | 65.27        | 34.7        |
| 28                     | 4.29        | 26.95        | 68.76        | 31.2        | 2.55        | 20.76        | 76.70        | 23.3        | 2.65        | 22.39        | 74.97        | 25.0        | 5.55        | 31.10        | 63.35        | 36.6        | 3.93             | 25.87        | 70.19        | 29.8        | 4.55        | 27.76        | 67.69        | 32.3        |
| 1                      | 4.31        | 27.58        | 68.11        | 31.9        | 5.15        | 25.59        | 69.25        | 30.7        | 6.06        | 28.77        | 65.17        | 34.8        | 3.73        | 27.56        | 68.71        | 31.3        | 4.95             | 27.33        | 67.72        | 32.3        | 3.84        | 27.76        | 68.40        | 31.6        |
| 22                     | 5.15        | 27.54        | 67.31        | 32.7        | 2.75        | 23.78        | 73.47        | 26.5        | 5.50        | 31.92        | 62.57        | 37.4        | 4.77        | 26.74        | 68.48        | 31.5        | 4.53             | 27.48        | 67.99        | 32.0        | 5.84        | 27.60        | 66.56        | 33.4        |
| 11                     | 4.88        | 28.64        | 66.48        | 33.5        | 3.94        | 24.53        | 71.52        | 28.5        | 1.68        | 20.05        | 78.27        | 21.7        | 4.97        | 28.42        | 66.60        | 33.4        | 4.00             | 25.21        | 70.79        | 29.2        | 5.20        | 29.86        | 64.94        | 35.1        |
| 24                     | 5.65        | 28.35        | 66.00        | 34.0        | 3.67        | 23.09        | 73.24        | 26.8        | 2.92        | 22.63        | 74.45        | 25.6        | 3.79        | 22.53        | 73.68        | 26.3        | 3.44             | 22.79        | 73.78        | 26.2        | 6.47        | 30.40        | 63.14        | 36.9        |
| 31                     | 5.34        | 28.97        | 65.70        | 34.3        | 2.29        | 21.97        | 75.73        | 24.3        | 2.13        | 20.12        | 77.75        | 22.2        | 4.76        | 25.64        | 69.61        | 30.4        | 2.86             | 22.32        | 74.82        | 25.2        | 6.94        | 33.26        | 59.80        | 40.2        |
| 2                      | 4.93        | 30.06        | 65.01        | 35.0        | 3.83        | 27.95        | 68.22        | 31.8        | 7.14        | 35.58        | 57.28        | 42.7        | 4.19        | 30.09        | 65.72        | 34.3        | 5.15             | 31.58        | 63.27        | 36.7        | 4.68        | 28.33        | 67.00        | 33.0        |
| 27                     | 7.07        | 27.97        | 64.96        | 35.0        | 2.90        | 20.13        | 76.97        | 23.0        | 2.30        | 22.37        | 75.33        | 24.7        | 9.88        | 28.05        | 62.07        | 37.9        | 6.41             | 24.80        | 68.79        | 31.2        | 7.40        | 29.53        | 63.07        | 36.9        |
| 25                     | 5.79        | 29.83        | 64.38        | 35.6        | 3.96        | 23.48        | 72.55        | 27.4        | 4.79        | 27.87        | 67.33        | 32.7        | 5.96        | 32.44        | 61.60        | 38.4        | 4.93             | 28.06        | 67.00        | 33.0        | 6.44        | 31.16        | 62.40        | 37.6        |
| 4                      | 5.61        | 30.26        | 64.13        | 35.9        | 7.04        | 30.09        | 62.88        | 37.1        | 5.27        | 30.91        | 63.82        | 36.2        | 4.54        | 29.20        | 66.26        | 33.7        | 5.49             | 29.90        | 64.61        | 35.4        | 5.77        | 30.72        | 63.51        | 36.5        |
| 23                     | 5.64        | 30.25        | 64.11        | 35.9        | 2.82        | 22.82        | 74.37        | 25.6        | 5.35        | 29.93        | 64.72        | 35.3        | 6.19        | 30.35        | 63.46        | 36.5        | 4.75             | 27.57        | 67.68        | 32.3        | 6.10        | 31.65        | 62.25        | 37.7        |
| 21                     | 5.70        | 30.44        | 63.86        | 36.1        | 1.35        | 16.12        | 82.53        | 17.5        | 7.02        | 28.57        | 64.41        | 35.6        | 3.45        | 29.18        | 67.37        | 32.6        | 3.63             | 24.00        | 72.37        | 27.6        | 8.29        | 38.54        | 53.16        | 46.8        |
| <b>Scotland LA</b>     | <b>6.88</b> | <b>29.42</b> | <b>63.70</b> | <b>36.3</b> | <b>4.40</b> | <b>25.62</b> | <b>69.97</b> | <b>30.0</b> | <b>6.45</b> | <b>29.26</b> | <b>64.29</b> | <b>35.7</b> | <b>6.98</b> | <b>29.27</b> | <b>63.75</b> | <b>36.3</b> | <b>6.07</b>      | <b>28.19</b> | <b>65.74</b> | <b>34.3</b> | <b>7.65</b> | <b>30.59</b> | <b>61.75</b> | <b>38.2</b> |
| 16                     | 6.51        | 29.93        | 63.56        | 36.4        | 4.41        | 23.73        | 71.86        | 28.1        | 3.14        | 19.51        | 77.34        | 22.7        | 5.79        | 26.70        | 67.51        | 32.5        | 4.69             | 24.12        | 71.19        | 28.8        | 7.05        | 31.65        | 61.30        | 38.7        |
| 29                     | 7.44        | 30.02        | 62.54        | 37.5        | 1.96        | 17.08        | 80.97        | 19.0        | 3.44        | 26.24        | 70.32        | 29.7        | 9.87        | 32.80        | 57.33        | 42.7        | 6.56             | 27.62        | 65.82        | 34.2        | 7.77        | 30.92        | 61.31        | 38.7        |
| 17                     | 7.42        | 30.69        | 61.89        | 38.1        | 7.90        | 29.41        | 62.70        | 37.3        | 6.94        | 33.42        | 59.64        | 40.4        | 11.68       | 36.97        | 51.35        | 48.6        | 9.26             | 34.13        | 56.61        | 43.4        | 5.93        | 27.92        | 66.15        | 33.9        |
| 18                     | 8.72        | 29.71        | 61.57        | 38.4        | 2.96        | 18.26        | 78.78        | 21.2        | 4.72        | 27.52        | 67.76        | 32.2        | 8.99        | 31.61        | 59.40        | 40.6        | 5.90             | 26.88        | 67.23        | 32.8        | 11.36       | 32.36        | 56.28        | 43.7        |
| 9                      | 8.66        | 29.91        | 61.42        | 38.6        | 3.86        | 25.40        | 70.75        | 29.3        | 6.40        | 29.89        | 63.71        | 36.3        | 10.16       | 31.38        | 58.46        | 41.5        | 6.89             | 28.81        | 64.29        | 35.7        | 10.95       | 31.34        | 57.70        | 42.3        |
| 13                     | 8.39        | 30.69        | 60.92        | 39.1        | 2.10        | 15.14        | 82.76        | 17.2        | 4.03        | 25.59        | 70.37        | 29.6        | 8.10        | 26.38        | 65.52        | 34.5        | 5.71             | 24.00        | 70.29        | 29.7        | 9.85        | 34.33        | 55.82        | 44.2        |
| 3                      | 8.47        | 32.79        | 58.74        | 41.3        | 5.63        | 30.44        | 63.93        | 36.1        | 6.78        | 31.27        | 61.95        | 38.0        | 8.97        | 33.46        | 57.57        | 42.4        | 7.45             | 32.01        | 60.54        | 39.5        | 9.38        | 33.49        | 57.13        | 42.9        |
| 20                     | 10.34       | 31.21        | 58.45        | 41.6        | 3.67        | 24.85        | 71.48        | 28.5        | 5.82        | 32.43        | 61.75        | 38.3        | 8.00        | 31.70        | 60.30        | 39.7        | 5.66             | 29.24        | 65.10        | 34.9        | 15.80       | 33.52        | 50.69        | 49.3        |
| 8                      | 6.89        | 35.99        | 57.12        | 42.9        | 6.66        | 27.85        | 65.49        | 34.5        | 6.17        | 31.76        | 62.07        | 37.9        | 8.33        | 42.40        | 49.27        | 50.7        | 7.00             | 32.71        | 60.29        | 39.7        | 6.74        | 40.10        | 53.16        | 46.8        |
| 12                     | 8.52        | 36.83        | 54.65        | 45.3        | 5.69        | 32.19        | 62.12        | 37.9        | 7.86        | 36.57        | 55.57        | 44.4        | 6.29        | 33.86        | 59.85        | 40.2        | 6.66             | 34.33        | 59.01        | 41.0        | 11.48       | 40.81        | 47.71        | 52.3        |
| 6                      | 12.30       | 35.49        | 52.21        | 47.8        | 4.94        | 28.54        | 66.52        | 33.5        | 5.96        | 30.30        | 63.74        | 36.3        | 11.01       | 35.74        | 53.25        | 46.7        | 8.22             | 32.60        | 59.18        | 40.8        | 17.89       | 39.46        | 42.65        | 57.4        |
| 14                     | 16.34       | 38.08        | 45.58        | 54.4        | 8.86        | 32.94        | 58.20        | 41.8        | 20.68       | 41.98        | 37.34        | 62.7        | 18.93       | 41.35        | 39.71        | 60.3        | 16.35            | 38.87        | 44.79        | 55.2        | 16.33       | 36.41        | 47.25        | 52.7        |



## Appendix T

### ABERDEEN CITY SRMCS RCI 2018

System: WDM

PMS

System Version: 4.10.0

Run Identifier: SRMCS PI

Calculation Date: 14 November 2018

RP10.01

15 November 2018 - mikeb Page 1 of 1

From Date: 01 January 2018

To Date: 31 December 2018

Report Run Date: 15 November 2018 Rule Set ID:RP10.01

Weighting Set ID: WSAIIClassesv0202

### SPI CARRIAGEWAY CONDITION INDICATOR

|      |
|------|
| 29.9 |
|------|

#### Results from Network Lengths Surveyed

| Environment      | Class | Red   |      | Amber 1 |       | Green   |       | Coverage |        | Network |
|------------------|-------|-------|------|---------|-------|---------|-------|----------|--------|---------|
|                  |       | Km    | %    | Km      | %     | Km      | %     | Km       | %      | Km      |
| Urban            | A     | 2.008 | 4.14 | 11.028  | 22.73 | 35.480  | 73.13 | 48.516   | 94.94  | 51.100  |
|                  | B     | 0.268 | 3.08 | 1.359   | 15.62 | 7.072   | 81.3  | 8.699    | 30.1   | 28.900  |
|                  | C     | 1.055 | 3.72 | 5.983   | 21.08 | 21.351  | 75.21 | 28.389   | 64.37  | 44.100  |
|                  | U     | 3.368 | 4.47 | 19.877  | 26.4  | 52.049  | 69.13 | 75.294   | 11.65  | 646.100 |
| Rural            | A     | 0.115 | 1.4  | 0.957   | 11.63 | 7.159   | 86.98 | 8.231    | 114.32 | 7.200   |
|                  | B     | 0.370 | 3.92 | 1.950   | 20.69 | 7.107   | 75.39 | 9.427    | 61.61  | 15.300  |
|                  | C     | 0.355 | 3.6  | 2.538   | 25.73 | 6.970   | 70.67 | 9.863    | 16.89  | 58.400  |
|                  | U     | 0.359 | 6.65 | 1.596   | 29.56 | 3.445   | 63.8  | 5.400    | 12.22  | 44.200  |
| Overall By Class | A     | 2.123 | 3.74 | 11.985  | 21.12 | 42.639  | 75.14 | 56.747   | 97.34  | 58.300  |
|                  | B     | 0.638 | 3.52 | 3.309   | 18.26 | 14.179  | 78.22 | 18.126   | 41.01  | 44.200  |
|                  | C     | 1.410 | 3.69 | 8.521   | 22.28 | 28.321  | 74.04 | 38.252   | 37.32  | 102.500 |
|                  | U     | 3.727 | 4.62 | 21.473  | 26.61 | 55.494  | 68.77 | 80.694   | 11.69  | 690.300 |
| Urban            | All   | 6.699 | 4.16 | 38.247  | 23.77 | 115.952 | 72.07 | 160.898  | 20.89  | 770.200 |
| Rural            | All   | 1.199 | 3.64 | 7.041   | 21.39 | 24.681  | 74.97 | 32.921   | 26.32  | 125.100 |
| All              |       | 7.898 | 4.07 | 45.288  | 23.37 | 140.633 | 72.56 | 193.819  | 21.65  | 895.300 |

## Appendix U

### Results of Surveys Weighted Across Total Network Lengths

| Environment      | Class | Red    |        | Amber   |       | Green   |         | Coverage |   | Network |
|------------------|-------|--------|--------|---------|-------|---------|---------|----------|---|---------|
|                  |       | Km     | %      | Km      | %     | Km      | %       | Km       | % | Km      |
| Urban            | A     | 2.115  | 4.14   | 11.62   | 22.73 | 37.37   | 73.13   |          |   | 51.100  |
|                  | B     | 0.890  | 3.08   | 4.52    | 15.62 | 23.50   | 81.3    |          |   | 28.900  |
|                  | C     | 1.639  | 3.72   | 9.29    | 21.08 | 33.17   | 75.21   |          |   | 44.100  |
|                  | U     | 28.901 | 4.47   | 170.57  | 26.4  | 446.63  | 69.13   |          |   | 646.100 |
| Rural            | A     | 0.101  | 1.4    | 0.84    | 11.63 | 6.26    | 86.98   |          |   | 7.200   |
|                  | B     | 0.601  | 3.92   | 3.17    | 20.69 | 11.54   | 75.39   |          |   | 15.300  |
|                  | C     | 2.100  | 2 3.60 | 15.03   | 25.73 | 41.27   | 70.67   |          |   | 58.400  |
|                  | U     | 2.938  | 6.65   | 13.06   | 29.56 | 28.20   | 63.8    |          |   | 44.200  |
| Overall By Class | A     | 2.216  | 3.80   | 12.452  | 21.36 | 43.632  | 74.84   |          |   | 58.300  |
|                  | B     | 1.491  | 3.37   | 7.680   | 17.37 | 35.020  | 9 79.25 |          |   | 44.200  |
|                  | C     | 3.741  | 3.65   | 24.322  | 23.73 | 74.437  | 72.62   |          |   | 102.500 |
|                  | U     | 31.839 | 4.61   | 183.629 | 26.60 | 474.832 | 68.79   |          |   | 690.300 |
| Urban            | All   | 33.545 | 4.36   | 195.989 | 25.45 | 540.665 | 70.20   |          |   | 770.200 |
| Rural            | All   | 5.742  | 4.59   | 32.093  | 25.65 | 87.265  | 69.76   |          |   | 125.100 |
| All              |       | 39.287 | 4.39   | 228.083 | 25.48 | 627.931 | 70.14   |          |   | 895.300 |

**Appendix V**  
**Road Condition index 2004 - 2019**

