

# A947 Multi-Modal Corridor Study

Outline Business Case – Financial Case

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Quality information

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# 1. The Financial Case

## 1.1 Introduction to Affordability

This chapter presents the Financial Case for the A947 Multi-Modal Corridor scheme. It considers the costs and affordability of the Outline Business Case (OBC) package, including potential funding arrangements. To support this, the Financial Case outlines an estimate of the capital costs for the individual options which comprise the package. A total package cost is presented for schemes costed to date, whilst noting that costing work remains to be completed for a select number of schemes. Consideration is also given to the operating, maintenance and renewal implications of the package.

The chapter concludes by setting out the forecast investment expenditure profile required to deliver the package, identifying when costs are expected to occur and potential funding sources. Further work is required beyond the OBC to enhance the robustness and confidence in the cost estimates; this will be completed alongside detailed design activities for individual elements of the package. The level of development to date is considered proportionate to inform a package level investment decision to progress to the next stage.

## 1.2 OBC Package Composition

As outlined in the Socio-Economic Case, a final OBC package was compiled comprising of Table 1 options (which progressed directly to detailed design with no further appraisal required) and Table 2 options (that were subject to further appraisal and public and stakeholder consultation). The options included in the OBC package are summarised in Table 1-1.

**Table 1-1: OBC Package**

Option reference	Description
<b>Table 1 Options (not subject to appraisal)</b>	
<b>AT4</b>	Implement measures to give active travel users priority over Burnside Drive when using the shared use path on Riverview Drive
<b>AT13</b>	Provide a formal pedestrian crossing point to the north of the A947/Riverview Drive Roundabout to facilitate movements to the Formartine and Buchan Way
<b>AT14</b>	Provide a formal pedestrian crossing point to the east of the A947/Riverview Drive Roundabout
<b>AT16</b>	Implement formal pedestrian crossing facilities on the arms of the Riverview Drive/Stoneywood Road Roundabout
<b>AT17</b>	Implement signalised crossing facility on Victoria Street adjacent to Tesco
<b>AT30</b>	Provide direct active travel link between Dyce Drive and Riverview Drive
<b>AT32</b>	Implement footways on the south side of the carriageway on Pitmedden Road
<b>AT59</b>	Widen the shared use path on the east side of the A947 to the north of Riverview Drive
<b>AT60</b>	Provide continuous footways on Riverview Drive for the duration of the route
<b>O15</b>	Introduce placemaking and gateway features on Victoria Street
<b>Table 2 Appraised Options</b>	
<b>AT35a</b>	Implement improvements to develop a mixed traffic street (which allows for safe, on-road cycling) on the local network west of the A947, incorporating Bankhead Road, Greenburn Road and Millhill Brae
<b>AT41a/b</b>	Improve active travel access to the retail park at the Bucksburn Roundabout
<b>O10</b>	Review layout of the A947/McDonalds access road junction

Option reference	Description
<b>AT31</b>	Improve active travel links between the Riverside Path and housing within Dyce
<b>AT33</b>	Provide improved active travel links between Dyce Rail Station and the A947 and the eastern section of Dyce, particularly along Station Road
<b>AT61a</b>	Implement package of active travel measures on Victoria Street
<b>O2</b>	Review the layout of the Victoria Street/Skene Place Junction
<b>O26</b>	Implement one-way restrictions for general traffic on Victoria Street
<b>AT51</b>	Implement with-flow segregated cycleway on Old Meldrum Road
<b>O7</b>	Review the layout of the A947/Stoneywood Road Junction at Co-Op/Marks and Spencer
<b>O8</b>	Review the layout of the A947/Stoneywood Brae Junction
<b>AT48a</b>	Implement active travel improvements to support highest practicable level of service on the A947 between the Bucksburn Roundabout and Riverview Drive Roundabout North
<b>AT58</b>	Implement shared use path on Dyce Drive between the A947 and Kirkhill Industrial Estate to the north of Aberdeen International Airport

## 1.3 Estimated Costs

### 1.3.1 Approach to Capital Costs Plan Development

Cost estimates have been prepared for the individual options from the OBC package, aligned to the scope identified in the Socio-Economic Case, including for Table 1 and Table 2 options. This is with the exception of the seven options as summarised in Table 1-2.

**Table 1-2: Options Excluded from Cost Estimate**

Option	Rationale
AT8 – Reconfigure the Auchmill Road/Old Meldrum Road junction to improve connections for pedestrians and cyclists	Junction proposals at this location will be progressed and consulted on as part of the A96 corridor study design with the A947 study proposals for Old Meldrum Road tying-in to what emerges from the A96 appraisal.
AT19 – Implement pedestrian crossing facilities at the Old Meldrum Road/Mugiemoss Road junction	Pedestrian crossing facilities have been developed as part of works under the Old Meldrum Road / Mugiemoss Road committed scheme. As a result, there was no design work undertaken for Option AT19 prior to the option being sifted.
AT30 – Provide direct active travel link between Dyce Drive and Riverview Drive	Improvements proposed for AT13, AT14 and AT59 support the fulfilment of this option – no specific design work has been carried out for AT30.
PT2 – Conduct a traffic signal review to consider bus priority at all traffic signals along the A947 corridor	Further development of this option would be necessary to determine cost. Detailed transport modelling would be required to understand impacts that implementing traffic signal priority (TSP) technology would have on the A947.
O15 – Introduce placemaking and gateway features on Victoria Street	Various Table 2 options have a direct impact on the opportunities available to deliver placemaking and gateway features on Victoria Street. Specific costing of this option is therefore not appropriate at this time.

Option	Rationale
O10 – Review layout of the A947/McDonalds access road junction	No design work has been carried out on this option as the existing junction radii meets DMRB CD 123 minimum requirements. Layout of the junction may be altered if AT41b is progressed but, in isolation, O10 has no associated cost.
O16 – Implement package of measures to support implementation of a 20-minute neighbourhood in Dyce	The area of the 20-minute neighbourhood is subject to further assessment and engagement with the local community.
O25 – Implement access only restrictions for general traffic on Victoria Street	No design work carried out to date. Option is subject to consultation and further development to determine impacts on stakeholders.
O26 – Implement one-way restrictions for general traffic on Victoria Street	No design work carried out to date. Option is subject to consultation and further development to determine impacts on stakeholders.
Option	Rationale
AT30 – Provide direct active travel link between Dyce Drive and Riverview Drive	Improvements proposed for AT13, AT14 and AT59 support the fulfilment of this option – no specific design work has been carried out for AT30.
O15 – Introduce placemaking and gateway features on Victoria Street	Various Table 2 options have a direct impact on the opportunities available to deliver placemaking and gateway features on Victoria Street. Specific costing of this option is therefore not appropriate at this time.
O10 – Review layout of the A947/McDonalds access road junction	No design work has been carried out on this option as the existing junction radii meets DMRB CD 123 minimum requirements. Layout of the junction may be altered if AT41b is progressed but, in isolation, O10 has no associated cost.
O26 – Implement one-way restrictions for general traffic on Victoria Street	No design work carried out to date. Option is subject to consultation and further development to determine impacts on stakeholders.

The scheme costs have been prepared using SPONS as the primary data source. Equivalent local authority framework rates have also been used, where known, to capture lessons learned from recent project delivery experience. Cost certainty is commensurate with the current level of design, which is at the initial concept stage. The base costs presented in this chapter represent Q3, 2023 values and adjustments for future inflation have also been made informed by the programme. There will be a requirement for further development of the scheme costs at the Full Business Case (FBC) stage as the scheme design matures and more is known about the specification, risks, delivery model and programme for delivery.

### 1.3.2 Capital Costs

Base capital cost estimates (Q3, 2023 prices) for each of the costed options in the package are presented in Table 1-3. It should be noted that Options AT41a and AT41b (Improve active travel access to the retail park at the Bucksburn Roundabout) are mutually exclusive and only one of the options would be delivered. Table 1-3 highlights a total package cost (in Q3, 2023 prices, excluding inflation) in the order of £13.9 million for delivery of all the costed options, including Option AT41b which represents the variant with higher costs.

Figure 1-1 separately compares the total base construction costs (inclusive of risk, contingency and overheads) for each of the costed options, demonstrating that the most expensive options are AT48a (Implement active travel improvements to support highest practicable level of service on the A947

between the Bucksburn Roundabout and Riverview Drive Roundabout North) (£5m) and AT58 (Implement shared use path on Dyce Drive between the A947 and Kirkhill Industrial Estate to the north of Aberdeen International Airport) (£3.5m), which together account for over half of the total package cost. Detailed Cost Plans are available for each option, providing further breakdown for the composite elements (**Appendix A**).

**Table 1-3: Base Capital Costs for OBC Package Option (rounded to nearest thousand)**

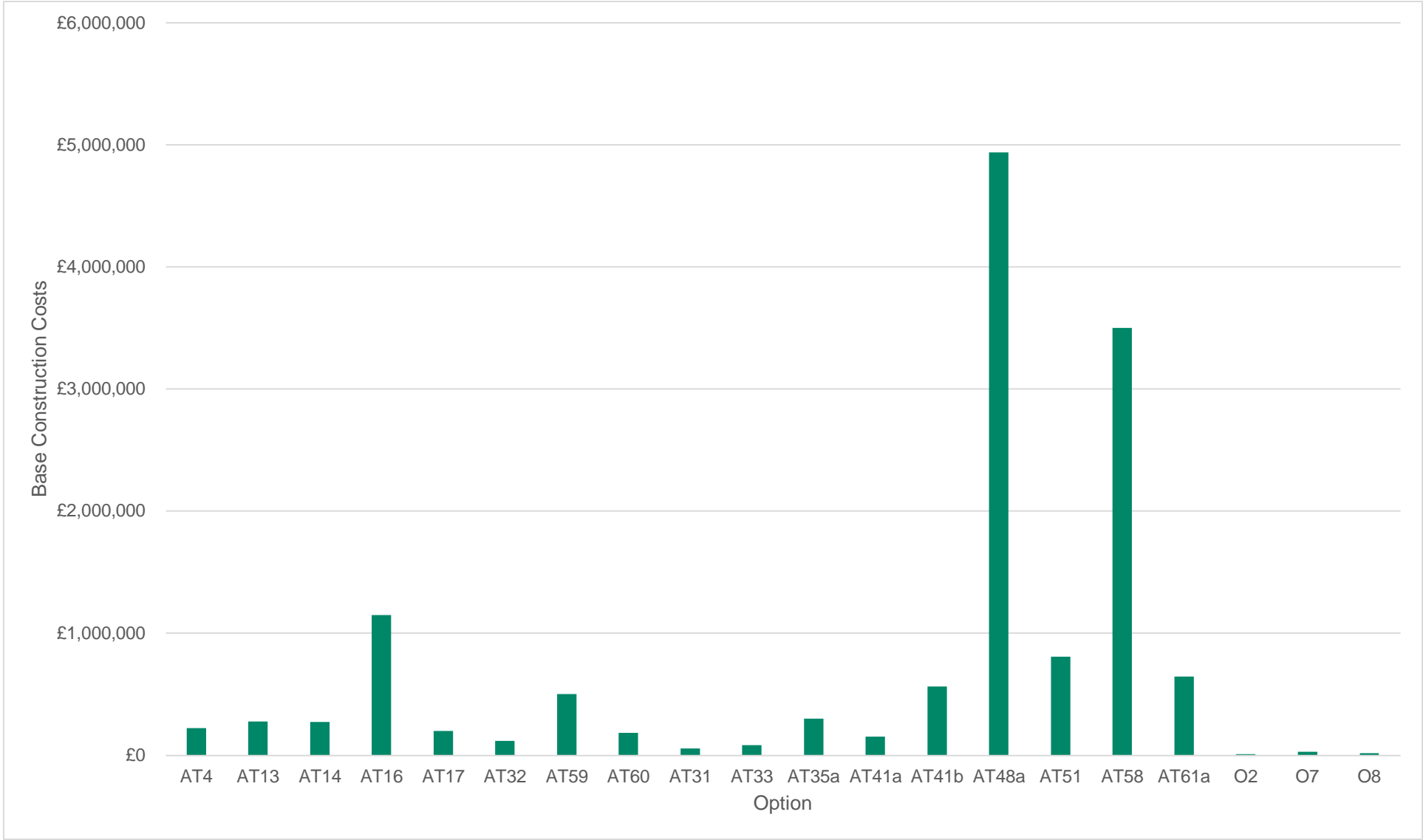
Option	Construction Costs Sub-Total	Risk and Contingency	Design	Placemaking	Site Supervision and Project Management	Traffic Management	Monitoring and Evaluation	Base Construction Costs Total (inclusive of Risk, Contingency and Overheads)
Table 1 Options								
AT4	£114,000	£50,000	£16,000	£8,000	£8,000	£16,000	£8,000	<b>£221,000</b>
AT13	£143,000	£63,000	£21,000	£10,000	£10,000	£21,000	£10,000	<b>£278,000</b>
AT14	£140,000	£62,000	£20,000	£10,000	£10,000	£20,000	£10,000	<b>£272,000</b>
AT16	£591,000	£260,000	£85,000	£43,000	£43,000	£85,000	£43,000	<b>£1,149,000</b>
AT17	£102,000	£45,000	£15,000	£7,000	£7,000	£15,000	£7,000	<b>£198,000</b>
AT32	£61,000	£27,000	£9,000	£4,000	£4,000	£9,000	£4,000	<b>£119,000</b>
AT59	£258,000	£114,000	£37,000	£19,000	£19,000	£37,000	£19,000	<b>£502,000</b>
AT60	£93,000	£41,000	£13,000	£7,000	£7,000	£13,000	£7,000	<b>£182,000</b>
Table 2 Options								
AT31	£29,000	£13,000	£4,000	£2,000	£2,000	£4,000	£2,000	<b>£56,000</b>
AT33	£44,000	£19,000	£6,000	£3,000	£3,000	£6,000	£3,000	<b>£84,000</b>
AT35a	£154,000	£68,000	£22,000	£11,000	£11,000	£22,000	£11,000	<b>£299,000</b>
AT41a <sup>1</sup>	£78,000	£35,000	£11,000	£6,000	£6,000	£11,000	£6,000	<b>£153,000</b>
AT41b	£288,000	£127,000	£42,000	£21,000	£21,000	£42,000	£21,000	<b>£562,000</b>
AT48a	£2,540,000	£1,118,000	£366,000	£183,000	£183,000	£366,000	£183,000	<b>£4,939,000</b>
AT51	£415,000	£182,000	£60,000	£30,000	£30,000	£60,000	£30,000	<b>£807,000</b>
AT58	£1,801,000	£793,000	£259,000	£130,000	£130,000	£259,000	£130,000	<b>£3,502,000</b>
AT61a	£331,000	£146,000	£48,000	£24,000	£24,000	£48,000	£24,000	<b>£645,000</b>
O2	£3,000	£2,000	£1,000	£300	£300	£1,000	£300	<b>£8,000</b>
O7	£16,000	£7,000	£2,000	£1,000	£1,000	£2,000	£1,000	<b>£30,000</b>
O8	£9,000	£4,000	£1,000	£1,000	£1,000	£1,000	£1,000	<b>£18,000</b>
<b>Total<sup>2</sup></b>	<b>£7,132,000</b>	<b>£3,141,000</b>	<b>£1,027,000</b>	<b>£514,300</b>	<b>£514,300</b>	<b>£1,027,000</b>	<b>£514,300</b>	<b>£13,871,000</b>

Base cost estimate year: Q3, 2023

<sup>1</sup> Options AT41a and AT41b are mutually exclusive and only one of the options would be delivered.<sup>2</sup> Total includes Option AT41b, which is the more expensive of the AT41a / AT41b variants.



Figure 1-1: Base Construction Costs Total (inclusive of Risk, Contingency and Overheads)



Base cost estimate year: Q3, 2023

To inform the financial ask for the package, there is a requirement to also consider inflation. Table 1-4 therefore presents an initial estimate of the outturn costs for the costed options in the package (inclusive of inflation), based on the proposed delivery programme for the works. This highlights a potential ask in the order of £15.1 million for delivery of all costed options, including Option AT41b.

**Table 1-4: Estimated Outturn Costs (inclusive of inflation)**

Option	Base Construction Costs Total (inclusive of Risk, Contingency and Overheads)	Inflation	Total Capital Costs (Q3 2028)
AT4	£221,000	£22,000	£243,000
AT13	£278,000	£26,000	£304,000
AT14	£272,000	£26,000	£298,000
AT16	£1,149,000	£104,000	£1,253,000
AT17	£198,000	£19,000	£217,000
AT32	£119,000	£12,000	£131,000
AT59	£502,000	£47,000	£549,000
AT60	£182,000	£19,000	£201,000
AT31	£56,000	£7,000	£63,000
AT33	£84,000	£11,000	£95,000
AT35a	£299,000	£29,000	£328,000
AT41a	£153,000	£15,000	£168,000
AT41b	£562,000	£53,000	£615,000
AT48a	£4,939,000	£439,000	£5,378,000
AT51	£807,000	£75,000	£882,000
AT58	£3,502,000	£313,000	£3,815,000
AT61a	£645,000	£61,000	£706,000
O2	£8,000	£4,100	£12,000
O7	£30,000	£4,000	£34,000
O8	£18,000	£4,000	£22,000
<b>Total<sup>3</sup></b>	<b>£13,871,000</b>	<b>£1,276,000</b>	<b>£15,146,000</b>

Base cost estimate year: Q3, 2023

### Key Assumptions

Key capital cost assumptions are set out below:

#### *Construction Works costs*

- Costs reflect the core intervention associated with each option – extras that would likely be considered in more detailed scoping of design schemes for delivery, such as general carriageway resurfacing have not been accounted for;
- 15% allowance of the construction works costs has been allowed for preliminaries; and
- 10% of construction costs has been added for the utility diversions.

#### *Risk and Contingency*

- Commensurate with the current design stage, a 44% risk and contingency allowance based on the construction works costs has been included. This is currently supported by a qualitative risk register. It is expected that this value will reduce over time as the capital costs mature during their project lifecycle. To support this, it will be important that risks continue to be identified and managed with involvement from all appropriate. It is recommended that a quantified cost risk assessment (QCRA) is included at the next design / business case stage – the value from the

<sup>3</sup> Total includes Option AT41b, which is the more expensive of the AT41a / AT41b variants.

QCRA would largely replace the current risk and contingency value, with a lower contingency value for unknown risks (not covered as part of the QCRA).

#### *Overheads*

- Design fees: assumed as a 10% allowance of the construction works cost, inclusive of risk and contingency;
- Placemaking and landscaping: assumed as a 5% allowance of the construction works cost, inclusive of risk and contingency;
- Site Supervision and project management: assumed as a 5% allowance of the construction works cost, inclusive of risk and contingency;
- Traffic management: assumed as a 10% allowance of the construction works cost, inclusive of risk and contingency for all options; and
- Monitoring and Evaluation: a 5% allowance of the construction works cost, inclusive of risk and contingency has been included at this stage. A bottom-up estimate is recommended for the proposed monitoring and evaluation tasks at the next stage – depending on specific requirements, it is expected that this allocation will most likely reduce.

#### *Inflation*

- Based on a construction mid-point of Q3, 2028, inflation has been calculated as a 9% uplift to the total project costs (from the Q3, 2023 base year).
- Inflation has been applied using AECOM's Tender Price Index between Q3, 2023 and Q3, 2026, with the Building Cost Information Service (BCIS) index applied beyond this period up to Q3, 2028.
- This leads to a £1.3 million uplift to the costs. ACC is however conscious that several factors have had a significant impact on the UK construction market and inflation, impacting the viability of many planned projects. Whilst the UK and Scottish Governments are seeking to ensure both fiscal and monetary policy work together to bring down inflation, there remains a significant risk to the package estimated costs in the short to medium term. Given this, there will be a need for careful management with respect to inflation planning. At this stage, it is assumed that inflation increases in excess of the current allowance would be covered by the risk and contingency allocation.

#### *Exclusions*

Commensurate with the current stage of design, there are a number of exclusions to the Cost Plan which are set out below. There is a requirement to revisit these areas at the next stage to develop greater cost certainty for the proposed package. The OBC seeks to mitigate the risk to the project, through inclusion of 44% risk and contingency (as discussed above) which may, in part, provide coverage for the exclusions.

- Costs do not include price of land acquisition, further investigation / survey, detailed earthworks, structures, retaining walls or enhanced drainage.

Furthermore, as previously stated, there are a select number of options that have not been costed – some of these will be subject to further scheme development work prior to committing to an estimated cost. Such schemes sit outside the current funding ask and are not covered by the existing risk and contingency allocation.

### **1.3.3 Operating and Maintenance / Renewal Costs**

To support a lifecycle costs assessment for the project, operating and maintenance / renewal costs have also been considered.

It is anticipated that maintenance costs would be incurred, which would cover the requirement to maintain signing/lining associated with, for example, the footways and cycleways. There will separately be the need for occasional cycleway and footway sweeping and general repairs. Cycleways and footways would also require winter maintenance. It is assumed that these costs could largely be covered through existing maintenance programme budgets for cycleways and footway schemes in the city; however, a detailed analysis of such costs is still to be undertaken.

In addition, there may be a requirement for carriageway repairs where new pedestrian crossings or junction reconfiguration is required. Carriageway repairs are already currently undertaken for the existing road network. For those parts of the road network where additional lining is required, for example to demarcate crossings or cycleways, there will be the occasional need for refreshing / renewing of these lines. It is considered, however, that the costs could also largely be built into existing maintenance regimes, given the extent of the options proposed compared to the current situation.

At the next stage, there will be a requirement for ACC to formally approve respective maintenance requirements and budgets to ensure they are factored into long-term planning considerations.

## 1.4 Budgets and Funding Cover

### 1.4.1 Spend to Date

The development of the A947 Multi-Modal Corridor scheme has been funded by Nestrans. To date approximately £157,106 has been spent on the project in total, including scheme development, detailed appraisal, business case, public and stakeholder engagement and project management.

### 1.4.2 Funding Sources

Funding for the ongoing development and delivery of the scheme has not yet been confirmed. However, the OBC will provide the basis for the scheme to be considered for future funding opportunities. Potential funding sources for implementation include Scottish Government's Active Travel Transformation Fund, the Nestrans capital budget and Aberdeen City Council internal funding. There may also be opportunities via Network Rail or ScotRail for the options that connect to Dyce railway station. There are however significant risks in realising these opportunities and it is likely that a combination of these funding sources would be required to fund a package of measures for the corridor.

### 1.4.3 Expenditure Profile

Table 1-5 presents an initial forecast of the total capital costs expenditure, which is shown over seven years, with the main construction works estimated for completion between 2027/2028 and 2029/2030. Expenditure between 2024/2025 and 2026/2027 relating to design would be dependent on a decision from ACC to proceed with further development work. This estimate will be refined through further development of the programme at the next stage.

**Table 1-5: Expenditure Profile – Capital Costs (inclusive of inflation)**

	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	Total
%	2%	2%	2%	18%	36%	36%	4%	100%
Capital Costs	£374,000	£374,000	£374,000	£2,693,000	£5,386,000	£5,386,000	£562,000	£15,146,000

## Appendix A – Outline Cost Estimates - Breakdown

**A947 Table 1 Options - Outline Cost Estimate  
Summary**

Option	Estimated Construction Cost
AT4 - Implement measures to give active travel users priority over Burnside Drive when using the shared use path on Riverside Drive	<b>£221,000</b>
AT13 - Provide a formal pedestrian crossing point to the north of the A947/Riverview Drive Roundabout to facilitate movements to the Formartine and Buchan Way	<b>£278,000</b>
AT14 - Provide a formal pedestrian crossing point to the east of the A947/Riverview Drive Roundabout	<b>£272,000</b>
AT16 - Implement formal pedestrian crossing facilities on the arms of the Riverview Drive/Stoneywood Road Roundabout	<b>£1,149,000</b>
AT17 - Implement signalised crossing facility on Victoria Street adjacent to Tesco	<b>£198,000</b>
AT32 - Implement footways on the south side of the carriageway on Pitmedden Road	<b>£119,000</b>
AT59 - Widen the shared use path on the east side of the A947 to the north of Riverview Drive	<b>£502,000</b>
AT60 - Provide continuous footways on Riverview Drive for the duration of the route	<b>£182,000</b>

**A947 Table 1 Options - Outline Cost Estimate  
Summary**

	AT4	AT13	AT14	AT16	AT17	AT32	AT59	AT60
<b>Construction Costs Sub-Total</b>	<b>£114,000</b>	<b>£143,000</b>	<b>£140,000</b>	<b>£591,000</b>	<b>£102,000</b>	<b>£61,000</b>	<b>£258,000</b>	<b>£93,000</b>
Risk and Contingency (44%)	£50,000	£63,000	£62,000	£260,000	£45,000	£27,000	£114,000	£41,000
<b>Construction Costs Sub-Total (inclusive of Risk and Contingency)</b>	<b>£164,000</b>	<b>£206,000</b>	<b>£202,000</b>	<b>£851,000</b>	<b>£147,000</b>	<b>£88,000</b>	<b>£371,000</b>	<b>£134,000</b>
Design	£16,000	£21,000	£20,000	£85,000	£15,000	£9,000	£37,000	£13,000
Placemaking	£8,000	£10,000	£10,000	£43,000	£7,000	£4,000	£19,000	£7,000
Site Supervision and Project Management	£8,000	£10,000	£10,000	£43,000	£7,000	£4,000	£19,000	£7,000
Traffic Management	£16,000	£21,000	£20,000	£85,000	£15,000	£9,000	£37,000	£13,000
Monitoring and Evaluation	£8,000	£10,000	£10,000	£43,000	£7,000	£4,000	£19,000	£7,000
<b>Base Construction Costs Total (inclusive of Risk, Contingency and Overheads)</b>	<b>£221,000</b>	<b>£278,000</b>	<b>£272,000</b>	<b>£1,149,000</b>	<b>£198,000</b>	<b>£119,000</b>	<b>£502,000</b>	<b>£182,000</b>

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£14,840.49	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.03	ha	£7,513.37	£8,106.93	£243.21	SPONS 2023 - Urban Area		
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings	52	m	£11.71	£12.64	£657.02	SPONS 2023		
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	3	no.	£93.01	£100.36	£301.07	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	1	no.	£142.75	£154.03	£154.03	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	0.3	m³	£152.31	£164.34	£49.30	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	15	m³	£4.31	£4.65	£69.76	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	32	m	£35.40		£1,132.80	Similar Local Authority Framework Rates		
	Precast concrete edging kerb	79	m	£18.90		£1,493.10	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	12	m²	£22.38	£24.15	£289.78	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	84	m²	£69.37	£74.85	£6,287.42	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	121	m²	£24.85	£26.81	£3,244.39	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard		no.	£210.59	£227.23	£0.00	SPONS 2023 p457		
	Removal of existing road markings	158	m	£3.80	£4.10	£647.83	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	90	m	£2.23	£2.41	£216.56	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	1	no.	£144.65	£156.08	£156.08	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)	1	no.	£75,000.00		£75,000.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£8,994.23	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£113,777.07			
	Optimism Bias	44%	%	-		£50,061.91			
	Construction Sub-Total (Inclusive of Optimism Bias)					£163,838.97			
	Design	10%	%	-		£16,383.90			
	Placemaking and Landscaping including road verges	5%	%	-		£8,191.95			
	Site Supervision and Project Management	5%	%	-		£8,191.95			
	Traffic Management	10%	%	-		£16,383.90			
	Monitoring and Evaluation	5%	%	-		£8,191.95			
	Total					£221,182.62			

Items are based on AECOM drawing number:

Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path. Please review the risk register to see the status of these risks.

**Notes:**

Assume no new drainage required due to geometry changes at the junction

Existing precast kerbing will not be useable following removal therefore replaced with new

Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)



A947 Table 1 Options - High Level Costing  
AT13 - Provide a formal pedestrian crossing point to the north of the A947/Riverview Drive Roundabout to facilitate movements to the Formartine and Buchan Way

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£18,624.89	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.2	ha	£7,513.37	£8,106.93	£1,621.39	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings	12	m	£11.71	£12.64	£151.62	SPONS 2023		
	Take up or down and set aside for reuse: Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	3	no.	£93.01	£100.36	£301.07	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00	£0.00	£0.00	Similar Local Authority Framework Rates		
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	2	no.	£805.00	£868.60	£1,737.19	SPONS 2023 p417		Proposed 2 x new gully at each side of crossing with 5m pipe each
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	10	no.	£142.03	£153.25	£1,532.50	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	125	m³	£4.31	£4.65	£581.31	SPONS 2023 p427		Value for footway extents only - not earthworks
	Imported acceptable material in embankments and other areas of fill (Dft Class 1 A/B/C) + compaction of fill	1762.2	m³	£32.48	£35.05	£61,757.92	SPONS 2023 p431		Based on indicative 2D footprint of earthworks assuming 1/3 slope and with additional factor of 1.2 included to account for
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings	20	m²	£64.85	£69.97	£1,399.46	SPONS 2023 p444 and 447 (combined rate)		Resurfacing at island crossing
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	44	m	£35.40		£1,557.60	Similar Local Authority Framework Rates		Edging kerb proposed at back of new footway construction
	Precast concrete edging kerb	120	m	£18.90		£2,268.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	28	m²	£22.38	£24.15	£676.14	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	488	m²	£69.37	£74.85	£36,526.91	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings		m²	£24.85	£26.81	£0.00	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	3	no.	£210.59	£227.23	£681.68	SPONS 2023 p457		Costing for all Old Meldrum Road centreline road markings
	Removal of existing road markings		m	£3.80	£4.10	£0.00	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	874	m	£2.23	£2.41	£2,102.99	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	3	no.	£44.33	£47.83	£143.50	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£11,126.63	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£142,790.81			
	Optimism Bias	44%	%	-		£62,827.96			
	Construction Sub-Total (Inclusive of Optimism Bias)					£205,618.77			
	Design	10%	%	-		£20,561.88			
	Placemaking and Landscaping including road verges	5%	%	-		£10,280.94			
	Site Supervision and Project Management	5%	%	-		£10,280.94			
	Traffic Management	10%	%	-		£20,561.88			
	Monitoring and Evaluation	5%	%	-		£10,280.94			
	Total					£277,585.34			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage  
Please review the risk register to see the status of these risks.

Notes:  
Existing precast kerbing will not be useable following removal therefore replaced with new  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Acceptable ground assumed for earthwork costing

A947 Table 1 Options - High Level Costing  
AT14 - Provide a formal pedestrian crossing point to the east of the A947/Riverview Drive Roundabout

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£18,271.48	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.15	ha	£7,513.37	£8,106.93	£1,216.04	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings	78	m	£11.71	£12.64	£985.54	SPONS 2023		
	Take up or down and set aside for reuse: Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00	£0.00	£0.00	Similar Local Authority Framework Rates		
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	1	no.	£805.00	£868.60	£868.60	SPONS 2023 p417		New drainage gully proposed at crossing
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	5	no.	£142.03	£153.25	£766.25	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		Removal of old path makeups and monoblock strip on South side
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	17.5	m³	£152.31	£164.34	£2,875.99	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	41.25	m³	£4.31	£4.65	£191.83	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	131	m	£35.40		£4,637.40	Similar Local Authority Framework Rates		New footway buildouts and cycletrack
	Precast concrete edging kerb	71	m	£18.90		£1,341.90	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	28	m²	£22.38	£24.15	£676.14	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	244	m²	£69.37	£74.85	£18,263.46	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	76	m²	£24.85	£26.81	£2,037.80	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		Cycle symbols included
	Removal of existing road markings	136	m	£3.80	£4.10	£557.63	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	279	m	£2.23	£2.41	£671.32	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	4	no.	£44.33	£47.83	£191.33	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard, non-illuminated		no.	£283.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)	1	no.	£75,000.00		£75,000.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£10,873.48	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£140,081.36			
	Optimism Bias	44%	%	-		£61,635.80			
	Construction Sub-Total (Inclusive of Optimism Bias)					£201,717.16			
	Design	10%	%	-		£20,171.72			
	Placemaking and Landscaping including road verges	5%	%	-		£10,085.86			
	Site Supervision and Project Management	5%	%	-		£10,085.86			
	Traffic Management	10%	%	-		£20,171.72			
	Monitoring and Evaluation	5%	%	-		£10,085.86			
	Total					£272,318.16			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage  
Please review the risk register to see the status of these risks.

Notes:  
Existing precast kerbing will not be useable following removal therefore replaced with new  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Extents include crossing and small section of shared use to existing path. SU covered by AT59

A947 Table 1 Options - High Level Costing  
AT16 - Implement formal pedestrian crossing facilities on the arms of the Riverview Drive/Stoneywood Road Roundabout

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£77,101.31	Assumed at 15% of construction works.		
200	Site clearance							<a href="#">Construction output price indices - Office for National Statistics</a>	
	General - Urban Area	0.51	ha	£7,513.37	£8,106.93	£4,134.53	SPONS 2023 - Urban Area		3400m2 cumulative area * 1.5 factor as a buffer
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings		m	£11.71	£12.64	£0.00	SPONS 2023		
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels	0	m	£6.36	£6.86	£0.00	SPONS 2023 p388		Existing heel kerbs being retained for relay following resurfacing
	Precast concrete edgings	437	m	£4.94	£5.33	£2,329.32	SPONS 2023 p388		
	traffic sign including post	9	no.	£93.01	£100.36	£903.22	SPONS 2023 p388		
	bollard	0	no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals	0	no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	13	no.	£142.75	£154.03	£2,002.35	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	6	no.	£805.00	£868.60	£5,211.57	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	30	no.	£142.03	£153.25	£4,597.51	SPONS 2023 p407		2 new gullies per crossing and 5m per gully
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	58.5	m³	£152.31	£164.34	£9,614.04	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		Removal of existing crossing points and vehicle access to abandoned property
	Excavation of grass, topsoil or other reusable material	144.25	m³	£4.31	£4.65	£670.83	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	680	m	£35.40		£24,072.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb	640	m	£18.90		£12,096.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	100	m²	£22.38	£24.15	£2,414.80	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	1442	m²	£69.37	£74.85	£107,934.03	SPONS 2023		Locations where footways being widened into carriageway and verge
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	2140	m²	£24.85	£26.81	£57,380.14	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign or post or bollard	9	no.	£210.59	£227.23	£2,045.04	SPONS 2023 p457		
	Removal of existing road markings	239	m	£3.80	£4.10	£979.95	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	787	m	£2.23	£2.41	£1,893.66	SPONS 2023 p459 (average rate)		New markings at crossings + roundabout approach new alignment
	New road marking arrows or give-way triangles	8	no.	£44.33	£47.83	£382.66	SPONS 2023 p459		Cycle symbols not included in SPONS - alternative used
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	13	no.	£284.80	£307.30	£3,994.89	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalled road crossing (All components included)	3	no.	£75,000.00		£225,000.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£46,352.20	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£591,110.06			
	Optimism Bias	44%	%	-		£260,088.43			
	Construction Sub-Total (Inclusive of Optimism Bias)					£851,198.48			
	Design	10%	%	-		£85,119.85			
	Placemaking and Landscaping including road verges	5%	%	-		£42,559.92			
	Site Supervision and Project Management	5%	%	-		£42,559.92			
	Traffic Management	10%	%	-		£85,119.85			
	Monitoring and Evaluation	5%	%	-		£42,559.92			
	Total					£1,149,117.95			

Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
Existing precast road kerbing will not be useable following removal therefore replaced with new  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Existing heel kerbs where resurfacing only being done have been put down as set aside for reuse - these may not be suitable for relay and new heel kerbs would be required  
Assumed roundabout chevron markings retained

A947 Table 1 Options - High Level Costing  
AT17 - Implement signalised crossing facility on Victoria Street adjacent to Tesco

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£13,288.08	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban Area	0.025	ha	£7,513.37	£8,106.93	£202.67	SPONS 2023 - Urban Area		
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings		m	£11.71	£12.64	£0.00	SPONS 2023		
	Take up or down and set aside for reuse: Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post		no.	£93.01	£100.36	£0.00	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals	2	no.	£132.00		£264.00	Similar Local Authority Framework Rates		
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.80	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material		m³	£4.31	£4.65	£0.00	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb		m	£35.40		£0.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	140	m²	£24.85	£26.81	£3,753.84	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard		no.	£210.59	£227.23	£0.00	SPONS 2023 p457		
	Removal of existing road markings	150	m	£3.80	£4.10	£615.03	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	160	m	£2.23	£2.41	£384.99	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post	2	no.	£153.70	£165.84	£331.68	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)	1	no.	£75,000.00		£75,000.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£8,034.95	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
Construction Sub-Total						£101,875.25			
Optimism Bias		44%	%	-		£44,825.11			
Construction Sub-Total (Inclusive of Optimism Bias)						£146,700.35			
Design		10%	%	-		£14,670.04			
Placemaking and Landscaping including road verges		5%	%	-		£7,335.02			
Site Supervision and Project Management		5%	%	-		£7,335.02			
Traffic Management		10%	%	-		£14,670.04			
Monitoring and Evaluation		5%	%	-		£7,335.02			
Total						£198,045.48			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
Assume no new drainage required  
Removed existing markings and updated/refreshed nearby  
Assumed no new kerbing required and existing will be retained  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)

2 X "NEW TRAFFIC SIGNALS AHEAD" signs

A947 Table 1 Options - High Level Costing  
AT32 - Implement footways on the south side of the carriageway on Pitmedden Road

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£7,984.24	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban Area	0.075	ha	£7,513.37	£8,106.93	£608.02	<a href="#">Construction output price indices - Office for National Statistics</a> SPONS 2023 - Urban Area		
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings	30	m	£11.71	£12.64	£379.05	SPONS 2023		
	Take up or down and set aside for reuse: Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	4	no.	£93.01	£100.36	£401.43	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	3	no.	£142.75	£154.03	£462.08	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	37.5	m³	£152.31	£164.34	£6,162.84	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	78.75	m³	£4.31	£4.65	£366.23	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	30	m	£35.40		£1,062.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb	230	m	£18.90		£4,347.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	37	m²	£22.38	£24.15	£893.48	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	425	m²	£69.37	£74.85	£31,811.35	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings		m²	£24.85	£26.81	£0.00	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	4	no.	£210.59	£227.23	£908.91	SPONS 2023 p457		
	Removal of existing road markings		m	£3.80	£4.10	£0.00	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	50	m	£2.23	£2.41	£120.31	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	3	no.	£284.80	£307.30	£921.90	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£4,783.66	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£61,212.49			
	Optimism Bias	44%	%	-		£26,933.49			
	Construction Sub-Total (Inclusive of Optimism Bias)					£88,145.98			
	Design	10%	%	-		£8,814.60			
	Placemaking and Landscaping including road verges	5%	%	-		£4,407.30			
	Site Supervision and Project Management	5%	%	-		£4,407.30			
	Traffic Management	10%	%	-		£8,814.60			
	Monitoring and Evaluation	5%	%	-		£4,407.30			
	Total					£118,997.07			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
 Assume no new drainage required  
 Patch of vegetation to be retained as existing  
 Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)



A947 Table 1 Options - High Level Costing  
AT59 - Widen the shared use path on the east side of the A947 to the north of Riverview Drive

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£33,649.58	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban Area	0.4	ha	£7,513.37	£8,106.93	£3,242.77	SPONS 2023 - Urban Area		<a href="#">Construction output price indices - Office for National Statistics</a>
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings		m	£11.71	£12.64	£0.00	SPONS 2023		
	Take up or down and set aside for reuse: Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	11	no.	£93.01	£100.36	£1,103.94	SPONS 2023 p388		
	bollard	1	no.	£38.89	£41.96	£41.96	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	2	no.	£142.75	£154.03	£308.05	SPONS 2023 p388		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	83.75	m³	£152.31	£164.34	£13,763.68	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	396.25	m³	£4.31	£4.65	£1,842.76	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	150	m	£35.40		£5,310.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	61	m²	£22.38	£24.15	£1,473.03	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	2040	m²	£69.37	£74.85	£152,694.47	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	790	m²	£24.85	£26.81	£21,182.39	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	11	no.	£210.59	£227.23	£2,499.49	SPONS 2023 p457		
	Removal of existing road markings	65	m	£3.80	£4.10	£266.51	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	65	m	£2.23	£2.41	£156.40	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	2	no.	£160.41	£173.08	£346.16	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£20,098.89	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£257,980.08			
	Optimism Bias	44%	%	-		£113,511.24			
	Construction Sub-Total (Inclusive of Optimism Bias)					£371,491.32			
	Design	10%	%	-		£37,149.13			
	Placemaking and Landscaping including road verges	5%	%	-		£18,574.57			
	Site Supervision and Project Management	5%	%	-		£18,574.57			
	Traffic Management	10%	%	-		£37,149.13			
	Monitoring and Evaluation	5%	%	-		£18,574.57			
	Total					£501,513.28			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
Assume no new drainage required  
Assumed 1.5m consistent width for existing footway north of Parkhill Bridge due to lack of OS basemap here  
Relocation of VRS not priced  
Road markings included only for give way markings at junction. Refresh of carriageway centre lines not included  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)

A947 Table 1 Options - High Level Costing  
AT60 - Provide continuous footways on Riverview Drive for the duration of the route

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£12,179.11	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban Area	0.1	ha	£7,513.37	£8,106.93	£810.69	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site: Precast concrete paving, kerbs or edgings		m	£11.71	£12.64	£0.00	SPONS 2023		
	Take up or down and set aside for reuse: Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	4	no.	£142.75	£154.03	£616.11	SPONS 2023 p388		Relocating existing LC to rear of footway
500	Precast concrete trapped road gully with Class D400 Cover and Frame	1	no.	£805.00	£868.60	£868.60	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	5	no.	£142.03	£153.25	£766.25	SPONS 2023 p407		1 x new gully to capture increased runoff
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	207.5	m³	£4.31	£4.65	£964.98	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	8	m	£35.40		£283.20	Similar Local Authority Framework Rates		
	Precast concrete edging kerb	185	m	£18.90		£3,496.50	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	8	m²	£22.38	£24.15	£193.18	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	830	m²	£69.37	£74.85	£62,125.69	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	70	m²	£24.85	£26.81	£1,876.92	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		
	Removal of existing road markings		m	£3.80	£4.10	£0.00	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings		m	£2.23	£2.41	£0.00	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	4	no.	£284.80	£307.30	£1,229.20	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£7,307.58	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
MISC.	Hot applied red resin based surface treatment (Cycle Lane)		m²	£15.00		£0.00	Similar Local Authority Framework Rates		
	Cycle track - Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Cycle track - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85	£0.00	SPONS 2023		
	Bitumen emulsion tack coat		m²	£1.40	£1.51	£0.00	SPONS 2023		
	Breaking out pavement or footways exceeding 40mm depth but not exceeding 100mm		m²	£9.27	£10.00	£0.00	SPONS 2023		
	Cycle track - Mill out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Mill Out Carriageway		m²	£2.04	£2.20	£0.00	SPONS 2023		
	Carriageway Resurfacing		m²	£28.12	£30.34	£0.00	SPONS 2023		
	Carriageway Reconstruction		m²	£144.22	£155.61	£0.00	SPONS 2023		
	Construction Sub-Total					£93,373.18			
	Optimism Bias	44%	%	-		£41,084.20			
	Construction Sub-Total (Inclusive of Optimism Bias)					£134,457.37			
	Design	10%	%	-		£13,445.74			
	Placemaking and Landscaping including road verges	5%	%	-		£6,722.87			
	Site Supervision and Project Management	5%	%	-		£6,722.87			
	Traffic Management	10%	%	-		£13,445.74			
	Monitoring and Evaluation	5%	%	-		£6,722.87			
	Total					£181,517.45			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

Notes:  
Accounted for 1 extra drainage gully to capture additional water runoff onto Riverview Drive  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)

**A947 Table 2 Options - Outline Cost Estimate  
Summary**

Option	Estimated Construction Cost (Q3/2023)
AT31 - Improve active travel links between the Riverside Path and housing within Dyce	<b>£56,000</b>
AT33 - Provide improved active travel links between Dyce Rail Station and the A947 and the eastern section of Dyce, particularly along Station Road	<b>£84,000</b>
AT35a – Implement active travel improvements on the local road network to the west of the A947 via Bankhead Road and Wellheads Drive	<b>£299,000</b>
AT41a – Improve active travel access to the retail park at the Bucksburn Roundabout (SU Option)	<b>£153,000</b>
AT41b – Improve active travel access to the retail park at the Bucksburn Roundabout (Segregated Option)	<b>£562,000</b>
AT48a – Implement active travel improvements to support the highest practical level of service on the A947 between AWPR Junction and A947/A96 Junction	<b>£4,939,000</b>
AT51 – Implement with-flow segregated cycleway on Old Meldrum Road	<b>£807,000</b>
AT58 - Implement shared use path on Dyce Drive between the A947 and Kirkhill Industrial Estate to the north of Aberdeen International Airport	<b>£3,502,000</b>
AT61a - Implement package of active travel measures on Victoria Street	<b>£645,000</b>
O2 - Review the layout of the Victoria Street/Skene Place Junction	<b>£8,000</b>
O7 - Review the layout of the A947/Stoneywood Junction at Co-Op/ Marks and Spencer	<b>£30,000</b>
O8 - Review the layout of the A947/Stoneywood Brae Junction	<b>£18,000</b>



**A947 Table 2 Options - Outline Cost Estimate  
Summary**

	AT31	AT33	AT35a	AT41a	AT41b	AT48a	AT51	AT58	AT61a	O2	O7	O8
<b>Construction Costs Sub-Total</b>	<b>£29,000</b>	<b>£44,000</b>	<b>£154,000</b>	<b>£78,000</b>	<b>£288,000</b>	<b>£2,540,000</b>	<b>£415,000</b>	<b>£1,801,000</b>	<b>£331,000</b>	<b>£3,000</b>	<b>£16,000</b>	<b>£9,000</b>
Risk and Contingency (44%)	£13,000	£19,000	£68,000	£35,000	£127,000	£1,118,000	£182,000	£793,000	£146,000	£2,000	£7,000	£4,000
<b>Construction Costs Sub-Total (inclusive of Risk and Contingency)</b>	<b>£42,000</b>	<b>£63,000</b>	<b>£222,000</b>	<b>£113,000</b>	<b>£415,000</b>	<b>£3,658,000</b>	<b>£597,000</b>	<b>£2,594,000</b>	<b>£477,000</b>	<b>£5,000</b>	<b>£23,000</b>	<b>£13,000</b>
Design	£4,000	£6,000	£22,000	£11,000	£42,000	£366,000	£60,000	£259,000	£48,000	£1,000	£2,000	£1,000
Placemaking	£2,000	£3,000	£11,000	£6,000	£21,000	£183,000	£30,000	£130,000	£24,000	£300	£1,000	£1,000
Site Supervision and Project Management	£2,000	£3,000	£11,000	£6,000	£21,000	£183,000	£30,000	£130,000	£24,000	£300	£1,000	£1,000
Traffic Management	£4,000	£6,000	£22,000	£11,000	£42,000	£366,000	£60,000	£259,000	£48,000	£1,000	£2,000	£1,000
Monitoring and Evaluation	£2,000	£3,000	£11,000	£6,000	£21,000	£183,000	£30,000	£130,000	£24,000	£300	£1,000	£1,000
<b>Base Construction Costs Total (inclusive of Risk, Contingency and Overheads)</b>	<b>£56,000</b>	<b>£84,000</b>	<b>£299,000</b>	<b>£153,000</b>	<b>£562,000</b>	<b>£4,939,000</b>	<b>£807,000</b>	<b>£3,502,000</b>	<b>£645,000</b>	<b>£8,000</b>	<b>£30,000</b>	<b>£18,000</b>

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£3,803.60	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.025	ha	£7,513.37	£8,106.93	£202.67	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	72	m	£11.71	£12.64	£909.73	SPONS 2023		
	Lighting column - 5m	1	no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post		no.	£93.01	£100.36	£0.00	SPONS 2023 p388		
	bollard	1	no.	£38.89	£41.96	£41.96	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	1	no.	£142.75	£154.03	£154.03	SPONS 2023 p388		LC on existing footway may need to be removed for resurfacing works
500	Precast concrete trapped road gully with Class D400 Cover and Frame	1	no.	£805.00	£868.60	£868.60	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	5	no.	£142.03	£153.25	£766.25	SPONS 2023 p407		1 x new gully + 5m pipe per gully
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	2	m³	£152.31	£164.34	£328.68	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	135	m³	£4.31	£4.65	£627.82	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings	5	m²	£64.85	£69.97	£349.87	SPONS 2023 p444 and 447 (combined rate)		Extents of carriageway resurfacing at old island location
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	89	m	£35.40		£3,150.60	Similar Local Authority Framework Rates		
	Precast concrete edging kerb	12	m	£18.90		£226.80	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	12	m²	£22.38	£24.15	£289.78	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	164	m²	£69.37	£74.85	£12,275.44	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	20	m²	£24.85	£26.81	£536.26	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	1	no.	£210.59	£227.23	£227.23	SPONS 2023 p457		
	Removal of existing road markings	296	m	£3.80	£4.10	£1,213.66	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	347	m	£2.23	£2.41	£834.94	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	1	no.	£44.33	£47.83	£47.83	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
2700	Statutory Undertaker Diversions					£2,305.21	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£29,160.96			
	Optimism Bias	44%	%	-		£12,830.82			
	Construction Sub-Total (Inclusive of Optimism Bias)					£41,991.78			
	Design	10%	%	-		£4,199.18			
	Placemaking and Landscaping including road verges	5%	%	-		£2,099.59			
	Site Supervision and Project Management	5%	%	-		£2,099.59			
	Traffic Management	10%	%	-		£4,199.18			
	Monitoring and Evaluation	5%	%	-		£2,099.59			
	Total					£56,688.90			

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**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Assumed only 1 new gully will be required on Northern side as existing gully located approx 6m east of south crossing point  
No drainage provision included for new footpath down towards Riverside Path

A947 Table 2 Options - High Level Costing  
AT33 - Provide improved active travel links between Dyce Rail Station and the A947 and the eastern section of Dyce, particularly along Station Road

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes		
100	Preliminaries					£5,716.73	Assumed at 15% of construction works.				
200	Site clearance										
	General - Urban area	0.05	ha	£7,513.37	£8,106.93	£405.35	SPONS 2023 - Urban Area				
	Take up or down and remove to tip off site:							<a href="#">Construction output price indices - Office for National Statistics</a>			
	Precast concrete paving, kerbs or edgings	12	m	£11.71	£12.64	£151.62	SPONS 2023				
	Take up or down and set aside for reuse:										
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388				
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388				
	traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388				
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388				
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates				
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388				
	gully grating and frame	3	no.	£5.82	£6.28	£18.84	SPONS 2023 p388				
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417				
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407				
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402				
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414				
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	3	m	£87.20	£94.09	£282.27	SPONS 2023 p402		Relocation of existing footway gullies on southern side of carriageway		
	Brick construction: 750 x 700 chamber 500 depth to invert	3	no.	£1,154.47	£1,245.67	£3,737.02	SPONS 2023 p408				
	Remove from store and reinstall covers: 600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron	3	no.	£333.78	£360.15	£1,080.45	SPONS 2023 p418				
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)				
	Excavation of grass, topsoil or other reusable material		m³	£4.31	£4.65	£0.00	SPONS 2023 p427				
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431				
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)				
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings	175	m²	£64.85	£69.97	£12,245.30	SPONS 2023 p444 and 447 (combined rate)				
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)	165	m²	£28.90	£31.18	£5,145.21	SPONS 2023 p447				
1100	Precast concrete road kerb	18	m	£35.40		£637.20	Similar Local Authority Framework Rates				
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates				
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454				
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	10	m²	£69.37	£74.85	£748.50	SPONS 2023				
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	250	m²	£24.85	£26.81	£6,703.29	SPONS 2023 p444 and 447 (combined rate)				
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457				
	Removal of existing road markings	270	m	£3.80	£4.10	£1,107.05	SPONS 2023 p390				
	New white or yellow road markings/reinstatement of road markings	277	m	£2.23	£2.41	£666.51	SPONS 2023 p459 (average rate)		Cycle symbols included		
	New road marking arrows or give-way triangles	7	no.	£44.33	£47.83	£334.82	SPONS 2023 p459				
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460				
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457				
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		No entry + cycle lane signs		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m	3	no.	£224.98	£242.75	£728.26	SPONS p457 (combined rate)				
						£0.00					
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)				
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)				
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)				
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)				
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)				
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)				
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage				
2700	Statutory Undertaker Diversions					£3,464.69	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses				
Construction Sub-Total						£43,828.27					
Optimism Bias		44%	%	-		£19,284.44					
Construction Sub-Total (Inclusive of Optimism Bias)						£63,112.72					
Design		10%	%	-		£6,311.27					
Placemaking and Landscaping including road verges		5%	%	-		£3,155.64					
Site Supervision and Project Management		5%	%	-		£3,155.64					
Traffic Management		10%	%	-		£6,311.27					
Monitoring and Evaluation		5%	%	-		£3,155.64					
Total						£85,202.17					

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path  
Please review the risk register to see the status of these risks.

Notes:  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Assumed existing drainage along Station Road does not need upgraded  
1m of additional pipe assumed per relocated gully  
Number of gullies being relocated estimated due to parked vehicles blocking online imagery

AT35a – Implement active travel improvements on the local road network to the west of the A947 via Bankhead Road and Wellheads Drive

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£20,050.05	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.2	ha	£7,513.37	£8,106.93	£1,621.39	SPONS 2023 - Urban Area		<a href="#">Construction output price indices - Office for National Statistics</a>
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	395	m	£11.71	£12.64	£4,990.86	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	5	no.	£93.01	£100.36	£501.79	SPONS 2023 p388		
	bollard	10	no.	£38.89	£41.96	£419.62	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	2	no.	£142.75	£154.03	£308.05	SPONS 2023 p388		2 x existing beacons on refuge islands
	gully grating and frame	3	no.	£5.82	£6.28	£18.84	SPONS 2023 p388		
400	High visibility pedestrian guardrail	15	m	£385.39	£415.84	£6,237.54	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	12	no.	£805.00	£868.60	£10,423.14	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	60	no.	£142.03	£153.25	£9,195.02	SPONS 2023 p407		2 new gullies per ramp + 5m connection per gully
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	3	m	£87.20	£94.09	£282.27	SPONS 2023 p402		
	Brick construction:								
	750 x 700 chamber 500 depth to invert	3	no.	£1,154.47	£1,245.67	£3,737.02	SPONS 2023 p408		Relocation of existing carriageway gullies where there is footway widening
	Remove from store and reinstall covers:								
	600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron	3	no.	£333.78	£360.15	£1,080.45	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material	3	m³	£152.31	£164.34	£493.03	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		Removal of refuge island outside Bankhead Inn
	Excavation of grass, topsoil or other reusable material		m³	£4.31	£4.65	£0.00	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings	110	m²	£139.64	£150.67	£16,573.87	SPONS 2023 p444 (combined rate)		Construction of 3 x raised tables
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings	20	m²	£64.85	£69.97	£1,399.46	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	353	m	£35.40		£12,496.20	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	26	m²	£22.38	£24.15	£627.85	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	145	m²	£69.37	£74.85	£10,853.28	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	1150	m²	£24.85	£26.81	£30,835.12	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	15	no.	£210.59	£227.23	£3,408.40	SPONS 2023 p457		
	Removal of existing road markings	650	m	£3.80	£4.10	£2,665.13	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	860	m	£2.23	£2.41	£2,069.31	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	21	no.	£44.33	£47.83	£1,004.47	SPONS 2023 p459		Give way triangles, arrows on RT ramps and cycle symbols
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated	1	no.	£253.34	£273.35	£273.35	SPONS p457		Missing "Keep left" bollard on existing island to be reinstated
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalled road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£12,151.55	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£153,717.06			
	Optimism Bias	44%	%	-		£67,635.51			
	Construction Sub-Total (Inclusive of Optimism Bias)					£221,352.57			
	Design	10%	%	-		£22,135.26			
	Placemaking and Landscaping including road verges	5%	%	-		£11,067.63			
	Site Supervision and Project Management	5%	%	-		£11,067.63			
	Traffic Management	10%	%	-		£22,135.26			
	Monitoring and Evaluation	5%	%	-		£11,067.63			
	Total					£298,825.96			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
 Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
 Assumed that locations where footway being widened into carriageway will have resurfacing works  
 Assumed that all existing traffic islands will be retained as existing with no resurfacing/reconstruction required - expect island outside Bankhead Inn which will be removed as part new signal crossing  
 1m of additional pipe assumed per relocated gully

**A947 Table 2 Options - High Level Costing**  
**AT41a – Improve active travel access to the retail park at the Bucksburn Roundabout**

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£10,231.45	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.3	ha	£7,513.37	£8,106.93	£2,432.08	SPONS 2023 - Urban Area		<a href="#">Construction output price indices - Office for National Statistics</a>
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	145	m	£11.71	£12.64	£1,832.09	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	1	no.	£93.01	£100.36	£100.36	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals	1	no.	£132.00		£132.00	Similar Local Authority Framework Rates		
	lighting column	4	no.	£142.75	£154.03	£616.11	SPONS 2023 p388		
	gully grating and frame		no.	£5.82	£6.28	£0.00	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.		m	£87.20	£94.09	£0.00	SPONS 2023 p402		
	Brick construction:								
	750 x 700 chamber 500 depth to invert		no.	£1,154.47	£1,245.67	£0.00	SPONS 2023 p408		
	Remove from store and reinstall covers:								
	600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron		no.	£333.78	£360.15	£0.00	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material	43.5	m³	£152.31	£164.34	£7,148.90	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	90	m³	£4.31	£4.65	£418.54	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb		m	£35.40		£0.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb	150	m	£18.90		£2,835.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	450	m²	£69.37	£74.85	£33,682.80	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	415	m²	£24.85	£26.81	£11,127.46	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		
	Removal of existing road markings		m	£3.80	£4.10	£0.00	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings		m	£2.23	£2.41	£0.00	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	4	no.	£284.80	£307.30	£1,229.20	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£6,200.88	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£78,441.11			
	Optimism Bias	44%	%	-		£34,514.09			
	Construction Sub-Total (Inclusive of Optimism Bias)					£112,955.20			
	Design	10%	%	-		£11,295.52			
	Placemaking and Landscaping including road verges	5%	%	-		£5,647.76			
	Site Supervision and Project Management	5%	%	-		£5,647.76			
	Traffic Management	10%	%	-		£11,295.52			
	Monitoring and Evaluation	5%	%	-		£5,647.76			
	Total					£152,489.53			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting  
Please review the risk register to see the status of these risks.

**Notes:**  
 Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
 Extents of works are footway widening to west of A947 and entrance to bucksburn retail park  
 Retail park raised table is costed to be retained and upgraded rather than replaced  
 1m of additional pipe assumed per relocated gully



A947 Table 2 Options - High Level Costing
AT41b – Improve active travel access to the retail park at the Bucksburn Roundabout

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source	Assumptions/Notes
100	Preliminaries					£37,602.26	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.275	ha	£7,513.37	£8,106.93	£2,229.40	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	218	m	£11.71	£12.64	£2,754.45	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals	2	no.	£132.00		£264.00	Similar Local Authority Framework Rates		Priced for relocation of 2 x traffic signal post + head
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388		
	gully grating and frame	6	no.	£5.82	£6.28	£37.68	SPONS 2023 p388		
400	High visibility pedestrian guardrail	5	m	£385.39	£415.84	£2,079.18	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	16	no.	£805.00	£868.60	£13,897.52	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	80	no.	£142.03	£153.25	£12,260.03	SPONS 2023 p407		2 new gullies per ramp + 5m connection per gully (1 gully per cycletrack ramp)
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	6	m	£87.20	£94.09	£564.53	SPONS 2023 p402		
	Brick construction: 750 x 700 chamber 500 depth to invert	6	no.	£1,154.47	£1,245.67	£7,474.04	SPONS 2023 p408		Relocation of existing carriageway gullies where there is footway widening
	Remove from store and instal covers: 600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron	6	no.	£333.78	£360.15	£2,160.89	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material	88.75	m³	£152.31	£164.34	£14,585.40	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	38.75	m³	£4.31	£4.65	£180.21	SPONS 2023 p427		0.25m depth assumed for full construction
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings	150	m²	£139.64	£150.67	£22,600.73	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)	985	m²	£28.90	£31.18	£30,715.35	SPONS 2023 p447		
1100	Precast concrete road kerb		m	£35.40		£0.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	1350	m²	£69.37	£74.85	£101,047.81	SPONS 2023		Cycle track construction included
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	300	m²	£24.85	£26.81	£8,043.95	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		
	Removal of existing road markings	557	m	£3.80	£4.10	£2,283.81	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	971	m	£2.23	£2.41	£2,336.39	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	36	no.	£44.33	£47.83	£1,721.95	SPONS 2023 p459		Cycle symbols included. Estimated additional 6 x markings for cycletrack
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard: non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalled road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£22,789.25	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£288,284.01			
	Optimism Bias	44%	%	-		£126,844.96			
	Construction Sub-Total (Inclusive of Optimism Bias)					£415,128.97			
	Design	10%	%	-		£41,512.90			
	Placemaking and Landscaping including road verges	5%	%	-		£20,756.45			
	Site Supervision and Project Management	5%	%	-		£20,756.45			
	Traffic Management	10%	%	-		£41,512.90			
	Monitoring and Evaluation	5%	%	-		£20,756.45			
	Total					£560,424.11			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
 Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
 Option AT 41B = segregated cycletrack between roundabout and new toucan crossing  
 Retail park raised table is costed to be retained and upgraded rather than replaced  
 1m of additional pipe assumed per relocated gully

A947 Table 2 Options - High Level Costing  
AT48a – Implement active travel improvements to support the highest practical level of service on the A947 between AWPR Junction and A947/A96 Junction

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries					£331,320.39	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	2.305	ha	£7,513.37	£8,106.93	£18,686.46	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	3125	m	£11.71	£12.64	£39,484.66	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	28	no.	£93.01	£100.36	£2,810.02	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00	£0.00	£0.00	Similar Local Authority Framework Rates		
	lighting column	55	no.	£142.75	£154.03	£8,471.50	SPONS 2023 p388		
	gully grating and frame	85	no.	£5.82	£6.28	£533.78	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	58	no.	£805.00	£868.60	£50,378.51	SPONS 2023 p417		New gullies along segregated cycletrack
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	290	no.	£142.03	£153.25	£44,442.61	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	85	m	£87.20	£94.09	£7,997.55	SPONS 2023 p402		Relocation of existing carriageway gullies where there is footway widening or new segregation
	Brick construction: 750 x 700 chamber 500 depth to invert	85	no.	£1,154.47	£1,245.67	£105,882.22	SPONS 2023 p408		
	Remove from store and reinstall covers: 600 x 600 x 100 mm, Group 2, medium duty single seal B125 cast iron	85	no.	£333.78	£360.15	£30,612.63	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material	37	m³	£152.31	£164.34	£6,080.67	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	7070	m³	£4.31	£4.65	£32,878.96	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA	650	m²	£139.64	£150.67	£97,936.51	SPONS 2023 p444 (combined rate)		New carriageway widening along Riverview Drive
	30/14F surf 40/60 with 20mm coated chippings								
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings	100	m²	£64.85	£69.97	£6,997.32	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)	5590	m²	£28.90	£31.18	£174,313.53	SPONS 2023 p447		
1100	Precast concrete road kerb	3460	m	£35.40		£122,484.00	Similar Local Authority Framework Rates		Heel kerb on widened SU footways and kerbing along segregated cycletrack
	Precast concrete edging kerb	1430	m	£18.90		£27,027.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	118	m²	£22.38	£24.15	£2,849.47	SPONS 2023 p454		New Tactiles along Riverview Dr + Stoneywood Rd
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	12935	m²	£69.37	£74.85	£968,187.73	SPONS 2023		Includes overlay construction
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	8060	m²	£24.85	£26.81	£216,113.99	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	28	no.	£210.59	£227.23	£6,362.35	SPONS 2023 p457		
	Removal of existing road markings	2100	m	£3.80	£4.10	£8,610.42	SPONS 2023 p390		Removal of existing centre lines where carriageway width is being altered
	New white or yellow road markings/reinstatement of road markings	4175	m	£2.23	£2.41	£10,045.76	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	40	no.	£44.33	£47.83	£1,913.28	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	55	no.	£284.80	£307.30	£16,901.46	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£200,800.24	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£2,540,123.00			
	Optimism Bias	44%	%	-		£1,117,654.12			
	Construction Sub-Total (Inclusive of Optimism Bias)					£3,657,777.12			
	Design	10%	%	-		£365,777.71			
	Placemaking and Landscaping including road verges	5%	%	-		£182,888.86			
	Site Supervision and Project Management	5%	%	-		£182,888.86			
	Traffic Management	10%	%	-		£365,777.71			
	Monitoring and Evaluation	5%	%	-		£182,888.86			
	Total					£4,937,999.11			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Exterits include: new segregated cycletrack at Bucksburn roundabout, widened footways + segregation between Stoneywood Brae and Stoneywood Roundabout @ Wellheads Ave & Riverview Drive segregated cycletrack  
New drainage gullies shown for segregated cycletrack

A947 Table 2 Options - High Level Costing  
AT51 – Implement with-flow segregated cycleway on Old Meldrum Road

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries					£54,068.36	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.5	ha	£7,513.37	£8,106.93	£4,053.46	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	755	m	£11.71	£12.64	£9,539.49	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	5	no.	£93.01	£100.36	£501.79	SPONS 2023 p388		
	bollard	3	no.	£38.89	£41.96	£125.89	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388		
	gully grating and frame	22	no.	£5.82	£6.28	£138.16	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	18	no.	£805.00	£868.60	£15,634.71	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	90	no.	£142.03	£153.25	£13,792.53	SPONS 2023 p407		New gullies located on cycletrack at base of ramps and dropped kerb openings to avoid water pooling on the track
	150mm internal diameter UPVC drain or sewer on bad Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	22	m	£87.20	£94.09	£2,069.95	SPONS 2023 p402		Relocation of existing carriageway gullies where there is new cycle track construction
	Brick construction:								
	750 x 700 chamber 500 depth to invert	22	no.	£1,154.47	£1,245.67	£27,404.81	SPONS 2023 p408		
	Remove from store and reinstall covers:								
	600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron	22	no.	£333.78	£360.15	£7,923.27	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material	103.75	m³	£152.31	£164.34	£17,050.53	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		Excavation of existing footway 250mm to allow cycletrack construction
	Excavation of grass, topsoil or other reusable material		m³	£4.31	£4.65	£0.00	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings	20	m²	£139.64	£150.67	£3,013.43	SPONS 2023 p444 (combined rate)		Small section of carriageway construction following reshaping of footway buildout
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)	1245	m²	£28.90	£31.18	£38,822.96	SPONS 2023 p447		
1100	Precast concrete road kerb	1323	m	£35.40		£46,834.20	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs	20	m²	£22.38	£24.15	£482.96	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	1350	m²	£69.37	£74.85	£101,047.81	SPONS 2023		New cycletrack construction + areas of widened footway
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	1295	m²	£24.85	£26.81	£34,723.03	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	8	no.	£210.59	£227.23	£1,817.81	SPONS 2023 p457		
	Removal of existing road markings		m	£3.80	£4.10	£0.00	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	530	m	£2.23	£2.41	£1,275.27	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	30	no.	£44.33	£47.83	£1,434.96	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£32,768.70	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
Construction Sub-Total						£414,524.10			
Optimism Bias						£182,390.60			
Construction Sub-Total (Inclusive of Optimism Bias)						£596,914.70			
Design						£59,691.47			
Placemaking and Landscaping including road verges						£29,845.73			
Site Supervision and Project Management						£29,845.73			
Traffic Management						£59,691.47			
Monitoring and Evaluation						£29,845.73			
Total						£805,834.84			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
1m of additional pipe assumed per relocated gully  
Tie in with Old Meldrum / Mugiemoss junction not designed yet due to lack of OS. Therefore not priced



A947 Table 2 Options - High Level Costing

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries					£234,933.96	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	2	ha	£7,513.37	£8,106.93	£16,213.85	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	200	m	£11.71	£12.64	£2,527.02	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	14	no.	£93.01	£100.36	£1,405.01	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	5	no.	£142.75	£154.03	£770.14	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
600	Excavation and disposal of footway, carriageway or other hard material	30	m³	£152.31	£164.34	£4,930.27	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	3000	m³	£4.31	£4.65	£13,951.47	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	200	m	£35.40		£7,080.00	Similar Local Authority Framework Rates		New dropper + dropped kerbing
	Precast concrete edging kerb	4870	m	£18.90		£92,043.00	Similar Local Authority Framework Rates		Max amount of edge kerbing along new construction footway. Scope for reduction if only kerbs at back of footway
	Precast concrete tactile paving slabs	68	m²	£22.38	£24.15	£1,642.07	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	15000	m²	£69.37	£74.85	£1,122,753.45	SPONS 2023		10k of footway + 5k of buffer (Assumed hard material similar to wellheads road) - Scope to reduce cost if grass verge/buffer chosen
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	200	m²	£24.85	£26.81	£5,362.63	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	14	no.	£210.59	£227.23	£3,181.17	SPONS 2023 p457		
	Removal of existing road markings	50	m	£3.80	£4.10	£205.01	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	100	m	£2.23	£2.41	£240.62	SPONS 2023 p459 (average rate)		Refreshing of existing road markings at junctions/crossovers
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	5	no.	£284.80	£307.30	£1,536.50	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erecton of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalled road crossing (All components included)	2	no.	£75,000.00		£150,000.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£142,384.22	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£1,801,160.38			
	Optimism Bias	44%	%	-		£792,510.57			
	Construction Sub-Total (Inclusive of Optimism Bias)					£2,593,670.95			
	Design	10%	%	-		£259,367.10			
	Placemaking and Landscaping including road verges	5%	%	-		£129,683.55			
	Site Supervision and Project Management	5%	%	-		£129,683.55			
	Traffic Management	10%	%	-		£259,367.10			
	Monitoring and Evaluation	5%	%	-		£129,683.55			
	Total					£3,501,458.79			

Items are based on AECOM drawing number:

Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting

Please review the risk register to see the status of these risks.

**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Relocation of power line post and associated equipment should be covered under SU diversions uplift but unclear on cost at this stage  
Drainage not included at this stage - assumed existing carriageway drainage system will capture new runoff  
Earthworks not included in cost - assessment required to understand locations and quantity prior to cost  
Acquisition of 3rd party land required but not included in cost estimate  
Current design is subject to change following topo information. Due to gradients, additional rest points may be required

A947 Table 2 Options - High Level Costing  
AT61a - Implement package of active travel measures on Victoria Street

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries					£43,165.15	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	1	ha	£7,513.37	£8,106.93	£8,106.93	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	745	m	£11.71	£12.64	£9,413.14	SPONS 2023		Removal of existing full height bullnose kerb
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals	1	no.	£132.00		£132.00	Similar Local Authority Framework Rates		
	lighting column	1	no.	£142.75		£154.03	SPONS 2023 p388		
	gully grating and frame	14	no.	£5.82	£6.28	£87.92	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	14	m	£87.20	£94.09	£1,317.24	SPONS 2023 p402		Relocation of existing carriageway gullies where there is footway widening
	Brick construction: 750 x 700 chamber 500 depth to invert	14	no.	£1,154.47	£1,245.67	£17,439.42	SPONS 2023 p408		
	Remove from store and reinstall covers: 600 x 600 x 100 mm, Group 2, medium duty single seal B125 cast iron	14	no.	£333.78	£360.15	£5,042.08	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	67.5	m³	£4.31	£4.65	£313.91	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	785	m	£35.40		£27,789.00	Similar Local Authority Framework Rates		Introduction of new full height kerbline and splay/seperation kerb
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	2145	m²	£69.37	£74.85	£160,553.74	SPONS 2023		Construction of segregated cycletrack and widened footway
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings	960	m²	£24.85	£26.81	£25,740.62	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		
	Removal of existing road markings	700	m	£3.80	£4.10	£2,870.14	SPONS 2023 p390		Removal and refresh of existing road centre markings along North Victoria Street
	New white or yellow road markings/reinstatement of road markings	700	m	£2.23	£2.41	£1,684.32	SPONS 2023 p459 (average rate)		Reinstatment of double yellow lines in western section
	New road marking arrows or give-way triangles		no.	£44.33	£47.83	£0.00	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	1	no.	£284.80	£307.30	£307.30	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£26,160.70	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
Construction Sub-Total						£330,932.81			
Optimism Bias						£145,610.44			
Construction Sub-Total (Inclusive of Optimism Bias)						£476,543.24			
Design						£47,654.32			
Placemaking and Landscaping including road verges						£23,827.16			
Site Supervision and Project Management						£23,827.16			
Traffic Management						£47,654.32			
Monitoring and Evaluation						£23,827.16			
Total						£643,333.38			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting etc.  
Please review the risk register to see the status of these risks.

**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Assumed current location of lighting columns at front of the footway will remain  
Number of existing road gullies being relocated due to widened footways is approx. number due to parked cars potentially covering gully locations  
1m of additional pipe assumed per relocated gully

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries						£453.62	Assumed at 15% of construction works.	
200	Site clearance								
	General - Urban area	0.05	ha	£7,513.37	£8,106.93		£405.35	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings		m	£11.71	£12.64		£0.00	SPONS 2023	
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86		£0.00	SPONS 2023 p388	
	Precast concrete edgings		m	£4.94	£5.33		£0.00	SPONS 2023 p388	
	Traffic sign including post		no.	£93.01	£100.36		£0.00	SPONS 2023 p388	
	bollard		no.	£38.89	£41.96		£0.00	SPONS 2023 p388	
	traffic signals		no.	£132.00			£0.00	Similar Local Authority Framework Rates	
	lighting column		no.	£142.75	£154.03		£0.00	SPONS 2023 p388	
	gully grating and frame		no.	£5.82	£6.28		£0.00	SPONS 2023 p388	
400	High visibility pedestrian guardrail		m	£385.39	£415.84		£0.00	SPONS 2023 p400	
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60		£0.00	SPONS 2023 p417	
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25		£0.00	SPONS 2023 p407	
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34		£0.00	SPONS 2023 p402	
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24		£0.00	SPONS 2023 p414	
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.		m	£87.20	£94.09		£0.00	SPONS 2023 p402	
	Brick construction:								
	750 x 700 chamber 500 depth to invert		no.	£1,154.47	£1,245.67		£0.00	SPONS 2023 p408	
	Remove from store and reinstall covers:								
	600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron		no.	£333.78	£360.15		£0.00	SPONS 2023 p418	
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34		£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)	
	Excavation of grass, topsoil or other reusable material		m³	£4.31	£4.65		£0.00	SPONS 2023 p427	
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02		£0.00	SPONS 2023 p431	
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67		£0.00	SPONS 2023 p444 (combined rate)	
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97		£0.00	SPONS 2023 p444 and 447 (combined rate)	
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18		£0.00	SPONS 2023 p447	
1100	Precast concrete road kerb		m	£35.40			£0.00	Similar Local Authority Framework Rates	
	Precast concrete edging kerb		m	£18.90			£0.00	Similar Local Authority Framework Rates	
	Precast concrete tactile paving slabs		m²	£22.38	£24.15		£0.00	SPONS 2023 p454	
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings		m²	£69.37	£74.85		£0.00	SPONS 2023	
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings		m²	£24.85	£26.81		£0.00	SPONS 2023 p444 and 447 (combined rate)	
1200	Reinstatement of stored traffic sign and post or bollard		no.	£210.59	£227.23		£0.00	SPONS 2023 p457	
	Removal of existing road markings	57	m	£3.80	£4.10		£233.71	SPONS 2023 p390	
	New white or yellow road markings/reinstatement of road markings	50	m	£2.23	£2.41		£120.31	SPONS 2023 p459 (average rate)	
	New road marking arrows or give-way triangles	1	no.	£44.33	£47.83		£47.83	SPONS 2023 p459	
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15		£0.00	SPONS 2023 p460	
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35		£0.00	SPONS p457	
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84		£0.00	SPONS p457	

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting  
Please review the risk register to see the status of these risks.

**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Unclear if current gully location are located before or after junction narrowing. Included in costing incase these are affected. Topo info will clear this up

A947 Table 2 Options - High Level Costing  
07 - Review the layout of the A947/Stoneywood Junction at Co-Op/ Marks and Spencer

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries					£2,142.06	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.02	ha	£7,513.37	£8,106.93	£162.14	SPONS 2023 - Urban Area	<a href="#">Construction output price indices - Office for National Statistics</a>	
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	20	m	£11.71	£12.64	£252.70	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	Traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column	1	no.	£142.75	£154.03	£154.03	SPONS 2023 p388		
	gully grating and frame	1	no.	£5.82	£6.28	£6.28	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame		no.	£805.00	£868.60	£0.00	SPONS 2023 p417		
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres		no.	£142.03	£153.25	£0.00	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m² , 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	1	m	£87.20	£94.09	£94.09	SPONS 2023 p402		
	Brick construction:								
	750 x 700 chamber 500 depth to invert	1	no.	£1,154.47	£1,245.67	£1,245.67	SPONS 2023 p408		
	Remove from store and reinstall covers:								
	600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron	1	no.	£333.78	£360.15	£360.15	SPONS 2023 p418		Relocation of existing carriageway gullies where the junction is being altered
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material	5	m³	£4.31	£4.65	£23.25	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense bin 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings	20	m²	£139.64	£150.67	£3,013.43	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings	20	m²	£64.85	£69.97	£1,399.46	SPONS 2023 p444 and 447 (combined rate)		Added for potential areas impacted by excavation or new construction
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	60	m	£35.40		£2,124.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense bin 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	25	m²	£69.37	£74.85	£1,871.26	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings		m²	£24.85	£26.81	£0.00	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		
	Removal of existing road markings	188	m	£3.80	£4.10	£770.84	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	169	m	£2.23	£2.41	£406.64	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	6	no.	£44.33	£47.83	£286.99	SPONS 2023 p459		
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring	1	no.	£144.65	£156.08	£156.08	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalised road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£1,298.22	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
Construction Sub-Total						£16,422.46			
Optimism Bias		44%	%	-		£7,225.88			
Construction Sub-Total (Inclusive of Optimism Bias)						£23,648.34			
Design		10%	%	-		£2,364.83			
Placemaking and Landscaping including road verges		5%	%	-		£1,182.42			
Site Supervision and Project Management		5%	%	-		£1,182.42			
Traffic Management		10%	%	-		£2,364.83			
Monitoring and Evaluation		5%	%	-		£1,182.42			
Total						£31,925.26			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting  
Please review the risk register to see the status of these risks.

Notes:  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Priced to relocate corner gully at drainage  
Assumed existing road markings will be refreshed by removing and replaced with same markings

Series	Item	Quantity	Unit	Unit Cost (Q2 2022)	Unit Cost w/ Uplift (Q3 2023)	Total Cost	Unit Cost Source	Uplift Source (All)	Assumptions/Notes
100	Preliminaries					£1,161.60	Assumed at 15% of construction works.		
200	Site clearance								
	General - Urban area	0.01	ha	£7,513.37	£8,106.93	£81.07	SPONS 2023 - Urban Area		<a href="#">Construction output price indices - Office for National Statistics</a>
	Take up or down and remove to tip off site:								
	Precast concrete paving, kerbs or edgings	20	m	£11.71	£12.64	£252.70	SPONS 2023		
	Lighting column - 5m		no.	£201.93	£217.88				
	Take up or down and set aside for reuse:								
	Precast concrete kerbs and channels		m	£6.36	£6.86	£0.00	SPONS 2023 p388		Relocation of 40mph signage (setback)
	Precast concrete edgings		m	£4.94	£5.33	£0.00	SPONS 2023 p388		
	Traffic sign including post	2	no.	£93.01	£100.36	£200.72	SPONS 2023 p388		
	bollard		no.	£38.89	£41.96	£0.00	SPONS 2023 p388		
	traffic signals		no.	£132.00		£0.00	Similar Local Authority Framework Rates		
	lighting column		no.	£142.75	£154.03	£0.00	SPONS 2023 p388		
	gully grating and frame	1	no.	£5.82	£6.28	£6.28	SPONS 2023 p388		
400	High visibility pedestrian guardrail		m	£385.39	£415.84	£0.00	SPONS 2023 p400		
500	Precast concrete trapped road gully with Class D400 Cover and Frame	1	no.	£805.00	£868.60	£868.60	SPONS 2023 p417		Relocation of gully North junction kerbside
	Connection of 150mm internal dia pipe to existing 300mm internal dia drain, sewer or piped culvert depth to invert not exceeding 2 metres	5	no.	£142.03	£153.25	£766.25	SPONS 2023 p407		
	150mm internal diameter UPVC drain or sewer on bed Type Z in trench depth to invert not exceeding 2 metres, average depth to invert 1 metre		m	£82.80	£89.34	£0.00	SPONS 2023 p402		
	Raise or lower the level of chamber cover and frame not exceeding 0.25 m², 150mm or less in footway		no.	£41.00	£44.24	£0.00	SPONS 2023 p414		
	Vitrified clay pipes to BS 65, plain ends with push-fit polypropylene flexible couplings: 150 mm dia. drain or sewer in trench, depth to invert average 1.50 m deep.	1	m	£87.20	£94.09	£94.09	SPONS 2023 p402		Relocation of existing carriageway gullies where the junction is being altered
	Brick construction:								
	750 x 700 chamber 500 depth to invert	1	no.	£1,154.47	£1,245.67	£1,245.67	SPONS 2023 p408		
	Remove from store and reinstall covers:								
	600 x 600 x 100 mm; Group 2; medium duty single seal B125 cast iron	1	no.	£333.78	£360.15	£360.15	SPONS 2023 p418		
600	Excavation and disposal of footway, carriageway or other hard material		m³	£152.31	£164.34	£0.00	SPONS 2023 p427 + 428 + 429 (excavation of unacceptable material + extra over excavation + disposal to tip)		
	Excavation of grass, topsoil or other reusable material		m³	£4.31	£4.65	£0.00	SPONS 2023 p427		
	Imported acceptable material in embankments and other areas of fill		m³	£51.92	£56.02	£0.00	SPONS 2023 p431		
700	New carriageway construction comprising 210mm type 1 sub-base, 140mm AC32 dense base 40/60, 55mm AC20 dense base 40/60 and 45mm HRA 30/14F surf 40/60 with 20mm coated chippings		m²	£139.64	£150.67	£0.00	SPONS 2023 p444 (combined rate)		
	Plane and resurface carriageway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 30/14F surf 40/60 surface course with 20mm coated chippings		m²	£64.85	£69.97	£0.00	SPONS 2023 p444 and 447 (combined rate)		
	High friction surfacing to DfT Clause 924 Proprietary resin bonded surfacing system, colours (Buff, Grey, Red, Green)		m²	£28.90	£31.18	£0.00	SPONS 2023 p447		
1100	Precast concrete road kerb	20	m	£35.40		£708.00	Similar Local Authority Framework Rates		
	Precast concrete edging kerb		m	£18.90		£0.00	Similar Local Authority Framework Rates		
	Precast concrete tactile paving slabs		m²	£22.38	£24.15	£0.00	SPONS 2023 p454		
	Footway - paved area with 150mm thick Type 1 unbound mixture sub-base, 50mm thick dense asphalt concrete AC 20 dense base 40/60 rec binder course, 30mm thick hot rolled asphalt HRA 15/10 F surf 40/60 surface course with surface dressing of 10mm red or white chippings	15	m²	£69.37	£74.85	£1,122.75	SPONS 2023		
	Plane and resurface footway including cold milling 30mm - 50mm depth, bitumen emulsion bond coat to BBA/HAPAS BS 594987 : 2010 Cl. 920, and new HRA 15/10F surf 40/60 surface course with 10mm coated chippings		m²	£24.85	£26.81	£0.00	SPONS 2023 p444 and 447 (combined rate)		
1200	Reinstatement of stored traffic sign and post or bollard	2	no.	£210.59	£227.23	£454.45	SPONS 2023 p457		
	Removal of existing road markings	18	m	£3.80	£4.10	£73.80	SPONS 2023 p390		
	New white or yellow road markings/reinstatement of road markings	295	m	£2.23	£2.41	£709.82	SPONS 2023 p459 (average rate)		
	New road marking arrows or give-way triangles	2	no.	£44.33	£47.83	£95.66	SPONS 2023 p459		Included refreshing Stoneywood Brae junction
	New road marking letters or numbers 2.0m high		no.	£17.75	£19.15	£0.00	SPONS 2023 p460		
	New permanent road bollard; non-illuminated		no.	£253.34	£273.35	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on existing post		no.	£153.70	£165.84	£0.00	SPONS p457		
	Permanent retroreflective traffic sign face installed on new 76mm tubular steel post of length 3.5m - 4.0m		no.	£224.98	£242.75	£0.00	SPONS p457 (combined rate)		
						£0.00			
1300	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£284.80	£307.30	£0.00	SPONS p464 (12.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£1,336.16	£1,441.72	£0.00	SPONS p463 (12.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£160.41	£173.08	£0.00	SPONS p464 (6.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£585.42	£631.67	£0.00	SPONS p463 (6.0m nominal height)		
	Re-erection of galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£144.65	£156.08	£0.00	SPONS p464 (4.0m nominal height)		
	New galvanized steel road lighting column including all control gear, switching, fuses and internal wiring		no.	£279.89	£302.00	£0.00	SPONS p463 (4.0m nominal height)		
1400	New signalled road crossing (All components included)		no.	£75,000.00		£0.00	Suitable cost at high-level stage		
2700	Statutory Undertaker Diversions					£704.00	Assumed at 10% of quantified construction costs (excl. prelims) - % to be reviewed on receipt of C2 responses		
	Construction Sub-Total					£8,905.62			
	Optimism Bias	44%	%	-		£3,918.47			
	Construction Sub-Total (Inclusive of Optimism Bias)					£12,824.10			
	Design	10%	%	-		£1,282.41			
	Placemaking and Landscaping including road verges	5%	%	-		£641.20			
	Site Supervision and Project Management	5%	%	-		£641.20			
	Traffic Management	10%	%	-		£1,282.41			
	Monitoring and Evaluation	5%	%	-		£641.20			
	Total					£17,312.53			

Items are based on AECOM drawing number:  
Costs do not include price of further investigation / survey, land purchase, relocation of utilities, structures, retaining walls, enhanced drainage or path lighting  
Please review the risk register to see the status of these risks.

**Notes:**  
Uplifts shown based on SPONS 2023 (Q2 2022) against the latest figures on construction output price indices (Q3 2023)  
Gully at end of junction to be relocated following kerblane alterations on north side

