

## 2022/23 Highway Maintenance Capital Programme: Approved 3<sup>rd</sup> March 2022

### Appendix A: Proposed Apportionment of Assumed 2022/23 Highway Maintenance Capital Programme Funding

<b>Proposed Apportionment of Assumed 2022/23 Highway Maintenance Capital Programme Funding</b>	<b>£m</b>
ABC	£2,000,000
Rural Unclassified	£2,000,000
Urban Unclassified	£4,267,000
Footways	£750,000
Moss Roads	£350,000
Localised Deterioration Fund	£250,000
Street Lighting	£1,000,000
Street Lighting (Risk Based)	£500,000
Bridges & Structures	£3,500,000
Bridges & Structures Inspections & Risk Based Assessments	£600,000
Drainage	£500,000
Vehicle Restraint Barriers	£100,000
Traffic Signals	£600,000
Planned additional maintenance of ad-hoc or other highway assets	£800,000
Future Design/Site investigations	£100,000
Structural Defects	£2,000,000
Geotech/Surveys	£100,000
Surveys & Coring for Capital Programme	£750,000
<b>TOTAL BUDGET</b>	<b>£20,167,000</b>

## Appendix B – 2022/23 Proposed Criteria to Determine Highway Maintenance New Starts Programme

### Highway Maintenance New Starts Programme

The proposed criteria for determining the countywide allocations and the projects to be included in the 2022/23 Highways Maintenance capital programme is set out below:

Asset Class	2022/23 Proposed Criteria
A, B, C Roads	<p>Committed level of investment as set out in the Transport Asset Management Plan (TAMP)</p> <p>Pre patching, surface dressing and resurfacing determined on a countywide prioritisation based condition survey data and local parameters which include life expectancy and deterioration modelling. Also includes the number of defects, claims and complaints received. Additionally, the strategic significance is assessed based upon priority gritting routes and higher risk routes.</p> <p>Surface dressing schemes have been ranked based on the principles set out in the TAMP. Carriageway and inlay schemes are ranked on condition (worst first), traffic (type) and use (volume).</p>
Urban Unclassified Roads	<p>Pre patching, surface dressing and resurfacing determined on a countywide prioritisation based on condition survey data and local parameters which include life expectancy and deterioration modelling. Also includes the number of defects, claims and complaints received. Additionally, the strategic significance is assessed based upon priority gritting routes and higher risk routes.</p> <p>Surface dressing schemes have been ranked based on the principles set out in the TAMP. Carriageway and inlay schemes are ranked on condition (worst first), traffic (type) and use (volume).</p>
Rural Unclassified Roads	<p>Pre patching, surface dressing and resurfacing determined on a countywide prioritisation based on condition survey data and local parameters which include life expectancy and deterioration modelling. Also includes the number of defects, claims and complaints received. Additionally, the strategic significance is assessed based upon priority gritting routes and higher risk routes.</p> <p>Surface dressing schemes have been ranked based on the principles set out in the TAMP. Carriageway and inlay schemes are ranked on condition (worst first), traffic (type) and use (volume).</p>
Footways	<p>A countywide allocation prioritisation based on condition survey data and the number of highway safety defects identified. Also includes the number of defects, claims and complaints received.</p>

Asset Class	2022/23 Proposed Criteria
Moss Roads	A strategy for Moss Roads has been approved and includes a prioritised hierarchy of need which has been used to determine the proposed 2022/23 programme
Drainage	Countywide prioritisation based on risk of flooding and potential impact on flooding to property and highway and developed to address drainage issues prior to undertaking carriageway maintenance.
Street Lighting	District Allocation: 70% on the basis of reduction of risk based on condition and 30% on the basis of unexpected failures based on inventory records.
Traffic Signals	Countywide prioritisation based on the age of units beyond their operational life, number of faults attended and vehicle accident records.
Bridges and Structures	Countywide prioritisation based on priority bridges as indicated by condition and strategic importance.
Structural Defects	All defects that meet the safety intervention criteria will be addressed and therefore the actual expenditure will reflect operational demand.
Surveys, coring, and Geotechnical investigations	This will allow an evidence base to be developed to ensure schemes are developed in line with TAMP principles. The programme of works will support the delivery of the 2022/23 capital programmes and the development of the 2023/24 capital programme
Localised Deterioration Fund	Small schemes determined on a countywide prioritisation based on condition, the number of defects, repeat visits to defects, claims and complaints received, along with the route strategic significance.
Planned Additional Maintenance	<p>The following projects are priorities that are currently unfunded and need to be delivered:</p> <ul style="list-style-type: none"> <li>• Network Rail Low Bridge Height Signing &amp; Canal Bridge Protection</li> <li>• Weather Stations (yr2)</li> <li>• Cattle Grid replacement in Lancaster District</li> <li>• Trashescreen Safety Work</li> <li>• Carriageway Localised Deterioration</li> <li>• Street lighting -replacement of columns that have failed testing</li> </ul>
Risk Based Condition Assessments	<p>This work will ensure that a targeted programme of maintenance can be developed that is evidence based;</p> <ul style="list-style-type: none"> <li>• Column testing</li> <li>• Vehicle restraint barrier assessments</li> <li>• Bridge risk-based assessments</li> </ul>
Future Design / Site Investigation	This funding will help to develop the 2023/24 capital programme

## Appendix C: 2022/23 Maintenance of Highways Assets

The following allocations will be used across the ABC, urban and rural road programmes in-year as required:

	<b>Estimate</b>
Cats eyes	£27,383
Anti-skid	£180,980
Red safety surfacing	£108,448
Surface dressing drainage repairs	£90,000
<b>Total Estimate</b>	<b>£406,811</b>

### ABC Roads 2022/23 Capital Programme

<b>2022/23 Programme: A, B &amp; C Roads - Resurfacing</b>						
<b>Road No</b>	<b>Project Name</b>	<b>Division</b>	<b>District</b>	<b>Scheme Description</b>	<b>Treatment</b>	<b>Estimate</b>
A587	Rossall Road	Cleveleys East; Fleetwood West and Cleveleys West; Fleetwood East	Wyre	Two Sections; Manor Drive to outside number 75, and number 283 to Larkholme Parade	Resurfacing as part of a multi-treatment scheme	£258,238
A675	Higher Walton Road	South Ribble East	South Ribble	Barnflatt Close to outside number 241	Resurfacing as part of a multi-treatment scheme	£51,853
B5270	Lancaster Road	Wyre Rural Central	Wyre	Between St Oswalds Church and The Bethall Reform Church	Resurfacing	£59,613
C153	Tanhouse Road	Skelmersdale Central	West Lancashire	Roundabout and approaches	Resurfacing	£75,735
C638	Lower Gate Road	Accrington North	Hyndburn	Station Road/Altham Lane to Burnley Lane/Higher Gate Road	Resurfacing	£184,831
B5248	North Road	Chorley Rural West	Chorley	Doles Lane/Marlcop to Carr House Lane	Resurfacing	£228,996
<b>Total Estimate</b>						<b>£859,266</b>

2022/23 Programme: A, B & C Roads – Surface Dressing						
Road No	Project Name	Division	District	Scheme Description	Treatment	Estimate
A587	Rossall Road/ Broadway	Cleveleys East; Fleetwood West and Cleveleys West; Fleetwood East	Wyre	Rough Lea Road to Poulton Road	Surface dressing as part of a multi-treatment scheme	£220,299
A675	Higher Walton Road	South Ribble East	South Ribble	Kittling Bourne Brow to Chorley Road Petrol Station	Surface dressing as part of a multi-treatment scheme	£109,473
A5085	Blackpool Road	Preston South East; Preston East; Preston Central East	Preston	Garstang Road to Ribbleton Avenue	Surface dressing	£194,278
NA	Advanced ABC road pre-patching for 2023/24 surface dressing	As required	As required	ABC road pre-patching in 2022/23 for 2023/24 surface dressing programme	Pre-patching	£450,000
<b>Total Estimate</b>						<b>£974,050</b>

## Appendix D: 2022/23 Maintenance of Highways Assets

### Unclassified Roads 2022/23 Capital Programme

#### Urban Unclassified

<b>2022/23 Programme: Urban Unclassified – Resurfacing</b>						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U20133	Brunswick Street	Nelson East	Pendle	Bradshaw Street to Boston Street	Resurfacing as part of a multi-treatment scheme	£223,258
U8797	Pilling Lane	Chorley Central	Chorley	Factory Way to the A6	Resurfacing as part of a multi-treatment scheme	£37,435
U8247	Roads surrounding Shirley Lane	South Ribble West	South Ribble	Hambelton Close; the junction to the block paving. Arkholme Drive; the junction to the block paving. Full lengths of Lower Hey, Broadcroft, and The Croft. Clifford Avenue; the junction of Shirley Lane to Seven Sands. Seven Sands; the junction of Clifford Avenue to block paving	Resurfacing as part of a multi-treatment scheme	£90,667
U19948	Regent Street, Corporation Street and Rakeshouse Road/Regent Street 4-way Roundabout	Brierfield and Nelson West	Pendle	Rakeshouse Road/Regent Street 4-way Roundabout. Regents Street; Cravendale Avenue to Whitewalls Drive. Corporation Street; Regent Street to Burnley Road	Resurfacing as part of a multi-treatment scheme	£334,248
U40565	Lyndhurst Road	Burnley Central East	Burnley	Brunshaw Avenue to Todmorden Road	Resurfacing as part of a multi-treatment scheme	£107,907
U8392	Rookwood Avenue	Chorley Central	Chorley	Chorley Hall Road to the end at the factory gates	Resurfacing as part of a multi-treatment scheme	£31,048
U13504	Birch Avenue	Penwortham West	South Ribble	Beechway to lighting column number 9	Resurfacing	£37,285

### 2022/23 Programme: Urban Unclassified – Resurfacing

Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U11836 & U8491	Beaconsfield and Sycamore Road	Chorley North	Chorley	Beaconsfield Road; Wordsworth Terrace to Harpers Lane. Sycamore Road; Shakespeare Terrace to Coltsfoot Drive	Resurfacing	£56,254
U16672	Hollins Lane	Accrington South	Hyndburn	Newton Drive to Royds Avenue	Resurfacing	£47,383
U11362	Hargreaves Road and surrounding streets	Oswaldtwistle	Hyndburn	Full lengths of Hargreaves Road, Brookside View, Calico Close, Rushes Farm Close and New Bury Close	Resurfacing	£200,609
U21701	Mayfield Avenue Estate	Cleveleys East	Wyre	Full lengths of Wigeon Close, Teal Close, Partridge Avenue, Picmere Close and Shore Green	Resurfacing	£47,805
U7475	Lomas Lane	Rosendale South	Rosendale	Bury Road to Cherry Crescent	Resurfacing	£40,282
U20298	Grafton Street	Nelson East	Pendle	Hallam Road to Glenfield Road	Resurfacing	£100,936
U6666	St Albans Road	St Annes South	Fylde	From 12A St Albans Road to the dead end	Resurfacing	£25,449
U18974	Wyresdale Avenue	Heysham	Lancaster	Kingsway to Bowland Road	Resurfacing	£64,496
U19023	Levens Drive	Morecambe Central	Lancaster	Outside number 36 to Lordsome Road	Resurfacing	£112,745
U5635	Wheelton Lane Phase 2	Moss Side & Farrington, Leyland Central	South Ribble	Grasmere Avenue to Golden Hill Lane	Resurfacing	£61,412
U19045	Hampton Road	Morecambe Central	Lancaster	Back Granville Road East to Westminster Road	Resurfacing	£93,120
U40750	Waterbarn Street	Burnley North East	Burnley	Pratt Street to Newman Street	Resurfacing	£130,693

2022/23 Programme: Urban Unclassified – Resurfacing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U673	Martins Lane	Skelmersdale East	West Lancashire	From number 346 east to the car park area at the end	Resurfacing	£22,153
U20796	High Street	Pendle Central	Pendle	Windy Bank to Buck Street	Resurfacing	£68,517
U23016	Albion Street	Clitheroe	Ribble Valley	Junction with York Street to just past number 12 (near the Tesco entrance)	Resurfacing	£38,731
U45679	Ribble Road and junction area on Welsby Road	Leyland South	South Ribble	From Welsby Road to Lower House Road, including the junction area on Welsby Road	Resurfacing	£22,750
U20057	Leamington Street	Nelson East	Pendle	Full length	Resurfacing	£52,089
U41175	Kipling Place	Great Harwood, Rishton and Clayton-le-Moors	Hyndburn	Full length	Resurfacing	£37,548
U595	Gillibrands Road	Skelmersdale Central	West Lancashire	From the junction to beyond the arrow markings	Resurfacing	£30,074
U18506	Elmsdale Close	Skerton	Lancaster	Full length	Resurfacing	£33,816
U42600	Plover Street	Burnley Central West	Burnley	Full length	Resurfacing	£32,707
NA	22/23 Contingency Budget	As required	As required	Budget to deal with arising issues in-year	NA	£18,310
<b>Total Estimate</b>						<b>£2,199,727</b>



2022/23 Programme: Urban Unclassified – Surface Dressing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U20133	Brunswick Street and Surrounding Roads	Nelson East	Pendle	Chapel House Road: Mini roundabout at Brook Street to Halifax Road. Springfield Road: Halifax Road to St Pauls Road. Ethersall Road: Outside number 26 to Langholme Street. St Pauls Road: Outside number 2 to the junction with Ethersall Road. Langholme Street: Chapel House Road to Waidshouse Road. Rikard Road: Langholme Street to Beaufort Street. Beaufort Street: Chapel House Road to Waidshouse Road	Surface dressing as part of a multi-treatment scheme	£104,876
U8797	Pilling Lane	Chorley Central	Chorley	House number 84 to Carr Lane roundabout	Surface dressing as part of a multi-treatment scheme	£24,368
U8247	Shirley Lane Estate	South Ribble West	South Ribble	Full lengths of Shirley Lane; including West Square, Lanedale Avenue, Clifford Avenue, Applesyke, Manorcroft and Grangefield. Back Lane; number 53 to Shirley Lane. Meadow Way: Back Lane to the end. Orchard Lane; Meadow Way to the bollards. Tarndale: Back Lane to Meadow Way	Surface dressing as part of a multi-treatment scheme	£93,173
U19948	Charles Street Estate	Brierfield and Nelson West	Pendle	Charles Street: Reedyford Road to Cravendale Avenue. Cravendale Avenue: The end outside number 90 to Regent Street. Bevan Place: Cravendale Avenue to the end outside number 22. Highfield Crescent: Outside number 1 at Cravendale Avenue to outside number 37 at Cravendale Avenue. Rakeshouse Road: Section 1, Leeds Road to Regent Street roundabout. Section 2 – Regent Street roundabout to Charles Street. Regent Street – Section 1; from Reedyford Road roundabout to Rakeshouse Road/Regent Street	Surface dressing as part of a multi-treatment scheme	£141,829

2022/23 Programme: Urban Unclassified – Surface Dressing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
				Roundabout. Section 2; from Rakeshouse Road/Regent Street roundabout to the junction with Cravendale Avenue		
U40565	Irene Street Estate	Burnley Central East	Burnley	<p>Athletic Street – Morse Street to Mitella Street</p> <p>Olympia Street; Section 1 Morse Street to Lebanon Street.</p> <p>Section 2, Lebanon Street to Mitella Street.</p> <p>Brockenhurst Street Section 1, Morse Street to Lebanon Street.</p> <p>Section 2; Lebanon Street to Mitella Street</p> <p>Morse Street; Lyndhurst Road to Athletic Street. Irene Street</p> <p>Section 1; Athletic Street to Olympia Street. Section 2; Olympia Street to Brockenhurst Street. Section 3; Brockenhurst Street to Lyndhurst Street.</p> <p>Lebanon Street Section 1; Athletic Street to Lyndhurst Road. Section 2; Lyndhurst Road to Brunshaw Road. Mitella Street; Brunshaw Road to Lyndhurst Road. Celia Street; Prescott Street to Lyndhurst Road. Prescott Street; Mitella Street to Higgin Street.</p> <p>Holmsley Street; Section 1 Higgin Street to Lyndhurst Road.</p> <p>Section 2, Lyndhurst Road to Thursfield Road.</p> <p>Hinton Street; Section 1, Higgin Street to Lyndhurst Road.</p> <p>Section 2; Lyndhurst Road to Thursfield Road.</p> <p>Admiral Street; Section 1; Higgin Street to Lyndhurst Road.</p> <p>Section 2; Lyndhurst Road to Thursfield Road.</p> <p>Linby Street; Lyndhurst Road to Thursfield Road.</p> <p>Linden Street; Lyndhurst Road to Thursfield Road</p>	Surface dressing as part of a multi-treatment scheme	£113,125

2022/23 Programme: Urban Unclassified – Surface Dressing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U8392	Astley Road Estate	Chorley Central	Chorley	Full lengths of Astley Road, Millwood Glade, Woodfield Road, Highfield Road South, Chorley Hall Road and Millfield Road. Rookwood Avenue; Astley Road to Chorley Hall Road	Surface dressing as part of a multi-treatment scheme	£110,288
U2637	Central Avenue	Leyland South; Euxton, Buckshaw & Astley	South Ribble/Chorley	Euxton Lane traffic lights to Dawson Lane traffic lights	Surface dressing	£106,586
U2610	Buckshaw Avenue	Euxton, Buckshaw & Astley	Chorley	Central Avenue to Ordnance Road roundabout	Surface dressing	£35,210
U2610	Buckshaw Avenue	Euxton, Buckshaw & Astley	Chorley	Ordnance Road to Horseshoe Drive roundabout	Surface dressing	£23,146
U2610	Buckshaw Avenue	Euxton, Buckshaw & Astley	Chorley	Horseshoe Drive roundabout to TVS traffic lights	Microasphalt	£101,153
U2610	Buckshaw Avenue	Euxton, Buckshaw & Astley; Clayton with Whittle; Chorley Central	Chorley	TVS traffic lights to A6/Seaview traffic lights	Microasphalt	£47,883
U3639	Ordnance Road	Euxton, Buckshaw & Astley	Chorley	Buckshaw Avenue to end of adopted extents just past train station entrance	Microasphalt	£43,755

**2022/23 Programme: Urban Unclassified – Surface Dressing**

Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U41008	Burleigh Street and Surrounding Roads	Burnley Central East	Burnley	<p>Burleigh Street; Section 1; March Street to Brougham Street. Section 2; Brougham Street to Burns Street.</p> <p>Folds Street; Section 1; March Street to Brougham Street. Section 2 Brougham Street to Burns Street. March Street; Burleigh Street to Princess Way.</p> <p>Clive Street; Section 1; Oswald Street to Folds Street Section 2; Folds Street to Burleigh Street.</p> <p>Cromwell Street, Section 1; Oswald Street to Folds Street Section 2; Folds Street to Burleigh Street.</p> <p>Gordon Street; Section 1; Oswald Street to Folds Street Section 2; Folds Street to Burleigh Street. Section 3; Burleigh Street to Canning Street. Hubie Street; Canning Street to the end.</p> <p>Canning Street; Section 1; Gordon Street to Hubie Street Section 2; Hubie Street to March Street.</p> <p>Burns Street; Brougham Street to Burleigh Street.</p> <p>Belford Street Section 1; Burns Street to Folds Street. Section 2; Folds Street to Burleigh Street.</p> <p>Merton Street; Burleigh Street to Kent Street. Kent Street; Merton Street to Brougham Street</p>	Surface dressing	£115,027
U23110	Littlemoor Road	Clitheroe	Ribble Valley	Littlemoor Road; Whalley Road to Highfield Road. Hayhurst Street; Highfield Road to Pendle Road	Surface dressing	£56,629
U11908	Palatine Avenue and Surrounding Roads	Lancaster South East	Lancaster	Full lengths of Palatine Avenue, Rutland Avenue, Gloucester Avenue, Addle Street, Wakefield Drive, Emerson Street, Devon Place, Durham Avenue, Warwick Avenue, Bedford Place, Chester Place and Kenilworth Place	Surface dressing	£152,896

2022/23 Programme: Urban Unclassified – Surface Dressing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U20894	Venables Avenue Estate	Pendle Rural, Pendle Central	Pendle	<p>Venables Avenue; Castle Road to Byron Road</p> <p>Langdale Rise; Section 1; Windermere Avenue to outside number 7. Section 2; adjacent to number 2 to outside number 12.</p> <p>Buttermere Avenue; Langdale Rise to the end outside number 12. Coniston Grove; Windermere Avenue to the end. Hawes Drive; Coniston Grove to the end. Thirlmere Avenue; Coniston Grove to Venables Avenue.</p> <p>Derwent Close; Thirlmere Avenue to the end.</p> <p>Grasmere Close; Thirlmere Avenue to adjacent the side of number 2. Rydal Place; Grasmere Close to the end</p>	Surface dressing	£88,278
NA	Advanced urban road pre-patching for 2023/24 surface dressing	As required	As required	Urban road pre-patching in 2022/23 for 2023/24 surface dressing programme	Pre-patching	£700,000
<b>Total Estimate</b>						<b>£2,058,222</b>

## Rural Unclassified

2022/23 Programme: Rural Unclassified – Resurfacing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U5301	Back Lane	West Lancashire East	West Lancashire	From and including 3-way junction near Forest View Holiday Park, to the junction with Deans Lane	Resurfacing as part of multi-treatment scheme	£31,416
U286	Hillock Lane	Burscough and Rufford	West Lancashire	Hall Road to the end	Resurfacing	£40,758
U455	Beechfield	West Lancashire East	West Lancashire	Chorley Road to Chorley Road	Resurfacing	£24,227
U954	Queens Green	West Lancashire West	West Lancashire	School Lane to the end	Resurfacing	£37,162
U10964	Mill Lane	Fylde West	Fylde	Lodge Lane to end of the adopted extents	Overlay	£24,586
U49726	Linaker Drive	West Lancashire West	West Lancashire	Carr Moss Lane to the end	Resurfacing	£37,454
U5327	Wheat Lane	West Lancashire East	West Lancashire	Carr Lane to the cobbled area at the canal bridge	Resurfacing	£89,867
U4858 U4803	Gilbert Street and William Street	Rossendale South	Rossendale	Full lengths of both	Resurfacing	£64,111
U22433	Smithy Lane	Wyre Rural Central	Wyre	Two patches outside Beech House and Round House	Resurfacing	£16,414
U284	Hillcrest Drive	Burscough and Rufford	West Lancashire	Full length	Resurfacing	£20,855
U50410	Barker Lane	Ribble Valley South West	Ribble Valley	From Barker Lane to the end	Resurfacing	£37,597

2022/23 Programme: Rural Unclassified – Resurfacing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U835	Holker Lane	Chorley Rural West	Chorley	Leyland Lane to Nook Farm	Resurfacing	£47,038
U4892	Hothersall Lane	Longridge with Bowland	Ribble Valley	Hothersall Lane to Butcher Fold Farm	Resurfacing	£67,606
U8756	Troutbeck Road	Chorley South	Chorley	Lakeland Gardens to Scawfell Road	Resurfacing	£15,854
U40448	Howgill Lane	Pendle Rural; Ribble Valley North East	Pendle and Ribble Valley	A682 Burnley Road to Coal Pit Lane	Resurfacing	£158,485
U2610	Buckshaw Avenue	Chorley	Chorley Central	Sea View Pub to the Buckshaw Avenue junction	Resurfacing	£30,534
U21549	Midgery Lane	Preston	Preston Rural	Starting 10m after junction with D'Urton Lane to Guild Wheel Gate	Resurfacing	£16,377
U19038	Moss Road	Lancaster	Heysham	The Cattle Grid to Cattle Grid prior to Downlands	Resurfacing	£125,094
<b>Total Estimate</b>						<b>£885,435</b>

### 2022/23 Programme: Rural Unclassified – Surface Dressing

Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
U5301 U477	Hallowford Lane and Back Lane	West Lancashire East	West Lancashire	Ring O Bells Lane to Course Lane	Surface dressing as part of multi-treatment scheme	£42,827
U10991	Greenhalgh Lane	Fylde West	Fylde	Full length between Back Lane and Fleetwood Road	Surface dressing	£44,642
U294 U3611 U296	Martin Lane, Merscar Lane and Gorst Lane	Burscough and Rufford	West Lancashire	Merscar Lane; Drummersdale Lane to Martin Lane. Martin Lane; Merscar Lane to Gorst Lane. Gorst Lane; Martin Lane to New Lane	Surface dressing	£85,594
U399 U471	School Lane and Carr Lane	Burscough and Rufford & West Lancashire East	West Lancashire	A59 Liverpool Road North to Ring O Bells Lane	Surface dressing	£89,368
U5042	Higher Road	Longridge with Bowland	Ribble Valley	From junction with Forty Acre Lane to Stoney Gate Lane	Surface dressing	£125,411
U905 U5325 U5290	Dark Lane, Blythe Lane and Hobcross Lane	Ormskirk, West Lancashire East	West Lancashire	B5240 Hall Lane to Greetby Hill Lane	Surface dressing	£145,004
U22868 U22863	Pendleton Road and Wiswell Shay	Ribble Valley North East	Ribble Valley	Pendleton Road; from joining Wiswell Shay at the adjacent junction of Old Back Lane, through Wiswell Village to 30 metres before Wiswell Eaves Farm Entrance (at the previous surface dressing finishing point). Wiswell Shay; from A671 Whalley Bypass onto Pendleton Road	Surface dressing	£50,643



2022/23 Programme: Rural Unclassified – Surface Dressing						
Road No	Project Name	Division	District	Scheme Extents	Treatment	Estimate
NA	Advanced rural road pre-patching for 2023/24 surface dressing	As required	As required	Rural road pre-patching in 2022/23 for 2023/24 surface dressing programme	Pre-patching	£300,000
<b>Total Estimate</b>						<b>£883,489</b>

**Appendix E: 2022/23 Maintenance of Highways Assets**  
**Moss Roads 2022/23 Capital Programme**

<b>2022/23 Programme: Moss Roads</b>						
<b>Road No</b>	<b>Project Name</b>	<b>Division</b>	<b>District</b>	<b>Scheme Description</b>	<b>Treatment</b>	<b>Estimate</b>
C164	Hoscar Moss Road Phase 1	West Lancashire East	West Lancashire	Ring 'O'Bells Lane to Level Crossing	Investigation and remedial works	£13,640
C106	Segars Lane Phase 2	West Lancashire West	West Lancashire	Fine James Brook to Headbolt Lane	In-situ recycling	£97,055
U342	Green Lane Phase 3	West Lancashire North	West Lancashire	From A59 for 350m	Resurfacing	£70,120
C414	Woods Lane Phase 2	Wyre Rural Central	Wyre	Skitham Lane to New Lane (excluding recently reconstructed passing places)	Resurfacing	£144,302
U18 / U1033	Plex Moss Lane	West Lancashire East	West Lancashire	Full length from Sefton boundary to A5147 Southport Road/New Street	Investigatory works	£24,883
<b>Total Estimate</b>						<b>£350,000</b>

## Appendix F: 2022/23 Maintenance of Highways Assets

### Footway 2022/23 Capital Programme

<b>2022/23 Programme: Footways</b>						
Road No	Project Name	Division	District	Scheme Description	Treatment	Estimate
B6241	Watling Street Road	Preston Central East	Preston	Both sides between Eastway and Sir Tom Finney Way	Footway Reconstruction	£303,453
C383	West Drive	Cleveleys East, Cleveleys South and Carleton	Wyre	Both sides between North Drive and Amounderness Way	Footway Reconstruction	£212,538
U10536	Lowdnes Street	Preston Central East	Preston	Both sides from Trafford Street to Eldon Street	Footway Reconstruction	£63,279
U13703	Martinfield Road and surrounding footways	Penwortham East and Walton le Dale	South Ribble	Martinfield Road, Bishopsway, Pope Lane, Pope Walk, Abbey Walk, Woodlands Avenue, Padway, Hawksbury Drive, Leyfield, Moss Acre Road, New Lane, Stud Holme Crescent, Lilac Avenue	Footway preventative works	£53,938
U8188	Ribble Avenue and surrounding footways	Fylde South	Fylde	Ribble Avenue, Sagar Drive, Westway, Lamaleach Drive, Hodgson Avenue, Orchard Close, Eastway, Derwent Drive, Douglas Drive	Footway preventative works	£43,570
U8728	Collingwood Road and surrounding footways	Chorley Central	Chorley Central	Collingwood Road, Yeadon Grove, Manston Grove, Lydd Grove, Ringway, Walgarth Drive, Lindsay Drive, Isleworth Drive, Chelmsford Place, Hornchurch Drive	Footway preventative works	£38,384
NA	Footway patching for slurry sealing	As necessary	As necessary	Footway patching for slurry sealing	Pre-patching	£34,838
<b>Total Estimate</b>						<b>£750,000</b>

**Appendix G: 2022/23 Maintenance of Highways Assets**  
**Bridges 2022/23 Capital Programme**

<b>2022/23 Programme: Bridges</b>				
<b>Project Name</b>	<b>Division</b>	<b>District</b>	<b>Project Description</b>	<b>Estimate</b>
22/23 9308 Mallard Footbridge	Morecambe North	Lancaster	Scheme Development	£20,000
22/23 608 White Horse Railway	Wyre Rural East/Preston Rural	Wyre	Construction	£30,000
22/23 6602 Peel Road	Fylde	Fylde	Design and reconstruction	£330,000
22/23 4410 Maudland Canal Bridge	Preston Central West	Preston	Maintenance repairs	£120,000
22/23 946 Enfield Canal Bridge	Accrington North/Great Harwood, Rishton and Clayton-le-Moors	Hyndburn	Maintenance Painting	£250,000
22/23 6511 Hapton Station	Padiham and Burnley West	Hyndburn	Maintenance Painting	£180,000
22/23 1020 Pendle Water	Pendle Hill/Brierfield and Nelson West	Pendle	Bridge Maintenance	£180,000
22/23 5650 Balcony Footbridge	Skelmersdale East	West Lancashire	Bridge Maintenance	£200,000
22/23 9661 Lark Hill Lane	Mid Rossendale	Rossendale	Bridge Replacement	£125,000
22/23 1165 Bradford Bridge	Clitheroe/Ribble Valley North East	Ribble Valley	Scheme Development	£20,000
22/23 4009 Houghtons Road	Skelmersdale West/Skelmersdale Central	West Lancashire	Bridge Maintenance	£250,000
22/23 4008 Hospital Subway	Skelmersdale West	West Lancashire	Bridge Maintenance	£250,000
22/23 1008 Carr Road Canal	Briefield and Nelson West	Pendle	Bridge Maintenance	£145,000
22/23 4661 Yorkshire Street Aqueduct	Burnley Central East/Burnley North East	Burnley	Maintenance Painting	£145,000

<b>2022/23 Programme: Bridges</b>				
<b>Project Name</b>	<b>Division</b>	<b>District</b>	<b>Project Description</b>	<b>Estimate</b>
22/23 9436 Old Sol's Bridge	Ribble Valley South West/Ribble Valley North East	Ribble Valley	Maintenance Painting	£15,000
22/23 6376 Barrowford Road Culvert	Pendle Central	Pendle	Bridge Maintenance	£75,000
22/23 9880 Heys Footbridge	Great Harwood, Rishton and Clayton-le-Moors	Hyndburn	Maintenance Painting	£145,000
22/23 9285 Hargreaves Railway Footbridge	Leyland South/Leyland Central	South Ribble	Scheme Development and Bridge Maintenance	£145,000
22/23 6573 Wildmans Culvert	Ribble Valley South	Ribble Valley	Bridge Maintenance	£45,000
22/23 4696 Gillians Lane	Pendle Rural	Pendle	Bridge Maintenance	£45,000
22/23 6604 Bay Gate Cottage bridge and retaining wall	Ribble Valley North East	Ribble Valley	Bridge Maintenance	£45,000
22/23 Bridges Structural Maintenance West	Countywide as necessary	Countywide as necessary	Structural maintenance to bridges, footbridges and retaining walls	£395,000
22/23 Bridges Structural Maintenance East	Countywide as necessary	Countywide as necessary	Structural maintenance to bridges, footbridges and retaining walls	£345,000
<b>Total Estimate</b>				<b>£3,500,000</b>

## Appendix H: 2022/23 Maintenance of Highways Assets

### Traffic Signals 2022/23 Capital Programme

<b>2022/23 Programme: Traffic Signals</b>				
<b>Project Name</b>	<b>Division</b>	<b>District</b>	<b>Project Description</b>	<b>Estimate</b>
Glasson Dock Swing Bridge, Lancaster	Lancaster Central	Lancaster	Traffic Signal Asset Replacement Scheme Controller replacement; low voltage to extra low voltage. Replacement of all traffic signal heads from Halogen to LED. Review to ensure installation is fully operational	£60,000
Tag Lane, Ingol, junction near Dovedale Avenue, Preston	Preston West	Preston	Traffic Signal Asset Replacement Scheme Controller replacement; low voltage to extra low voltage. Replacement of all traffic signal heads from Halogen to LED. Review to ensure installation is fully operational	£30,000
Blackpool Road, Lea, junction near Aldfield Avenue, Preston	Preston South West	Preston	Traffic Signal Asset Replacement Scheme Controller replacement; low voltage to extra low voltage. Replacement of all traffic signal heads from Halogen to LED. Review to ensure installation is fully operational	£30,000
Torrisholme Road West of St Chads Drive (Eastbound), Lancaster	Skerton	Lancaster	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
Torrisholme Road West of St Chads Drive (Westbound), Lancaster	Lancaster Skerton	Lancaster	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
Lytham Road, at its junction with Haddon Place (Eastbound), Preston	Preston Central West	Preston	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000

2022/23 Programme: Traffic Signals				
Project Name	Division	District	Project Description	Estimate
Lytham Road, at its junction with Haddon Place (Westbound), Preston	Preston Central West	Preston	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
Burnley Road, South of its junction with Honey Holme Lane (Northbound), Burnley	Burnley Rural	Burnley	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
New Road, West of its junction with Todmorden Road (Eastbound), Burnley	Burnley Rural	Burnley	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
Todmorden Road, North of its junction with New Road (Southbound), Burnley	Burnley Rural	Burnley	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
Bacup Road, South of its junction with Burnley Road (Northbound), Burnley	Burnley Rural	Burnley	Over height Detection System Refurbishment Scheme Full refurbishment of the existing over height detection installation including, new controller, LED signs, over height detection, poles, ducting, loops and cabling	£60,000
<b>Total Estimate</b>				<b>£600,000</b>

## **Appendix I: 2022/23 Maintenance of Highways Assets**

### **Carbon Statement for 2022/23 Proposed Carriageway Capital Programme**

An assessment of the scope 3 emissions of the proposed carriageway capital programme for 2022/23 has been undertaken. This shows a carbon footprint of approximately 1324 tonnes of carbon dioxide equivalence (CO<sub>2</sub>e) from the programmes' activities, with a saving of 267 tonnes of CO<sub>2</sub>e, representing a 16.8% saving. This has been achieved through the use of warm mix asphalt on the majority of resurfacing and reconstruction schemes and the continued development and use of in-situ and ex-situ recycling. The savings are equivalent to over 1.3million miles driven by an average passenger car, which equates to taking 116 cars off the road for a year.

Treatment areas and emissions are divided between the road classification programmes and treatments and are shown in tables 1 and 2 below. Table 3 provides an average of the cost and CO<sub>2</sub>e footprint per m<sup>2</sup> of each treatment across all road classification programmes.

Treatment Area (m <sup>2</sup> )	Ex-situ Recycling	In-Situ Recycling	Reconstruction	Resurfacing	Surface Dressing	Sub-total
ABC	0	2,700	13,162	24,128	71,613	<b>111,603</b>
Urban	540	0	26,479	31,299	173,911	<b>232,229</b>
Unclassified	5,910	0	10,788	8,517	92,176	<b>117,391</b>
Rural Unclassified						
<b>Sub-total</b>	<b>6,450</b>	<b>2,700</b>	<b>50,429</b>	<b>63,944</b>	<b>337,700</b>	<b>461,223</b>

Table 1: Total treatment areas by programme and by treatment

CO <sub>2</sub> e (tonnes)	Ex-situ Recycling	In-Situ Recycling	Reconstruction	Resurfacing	Surface Dressing*	Sub-total
ABC	0	26	125	108	89	<b>348</b>
Urban	4	0	232	158	269	<b>663</b>
Unclassified	43	0	98	39	133	<b>313</b>
Rural Unclassified						
<b>Sub-total</b>	<b>47</b>	<b>26</b>	<b>455</b>	<b>305</b>	<b>491</b>	<b>1,324</b>

Table 2: Total CO<sub>2</sub>e (tonnes) emissions by programme and by treatment

\*CO<sub>2</sub>e for surface dressing includes the footprint of the asphalt required for pre-patching

	Average kgCO <sub>2</sub> e consumption per m <sup>2</sup> treated	Average cost per m <sup>2</sup> treated
Surface Dressing	1.45	£7.30
Resurfacing	4.77	£25.21
Reconstruction	9.02	£43.26
Ex-situ Recycling	7.31	£53.81
In-situ Recycling	9.63	£35.95

Table 3: Average treatment CO<sub>2</sub>e emissions and cost per m<sup>2</sup>



The Transport Asset Management Plan (TAMP) introduced in 2014 moved away from a 'worst first' approach in favour of an approach whereby the underlying condition of the network was addressed via the use of early intervention preventative maintenance strategies. This approach enabled the council to make more efficient use of our resources and through the first phase of the TAMP, from April 2015 to March 2020 aimed to improve the condition of the ABC network. The second phase of the TAMP, April 2020 to March 2025 aims to maintain the condition of the ABC network by the use of preventative treatments such as surface dressing and improve the condition of the urban unclassified road network.

With regards to cost, the programme data in tables 1 to 3 show that preventative maintenance strategies such as surface dressing can treat large areas of the network at minimal cost: approximately a quarter of the cost per m<sup>2</sup> of resurfacing and less than sixth of the cost of reconstruction. Assessing the programme with regards to CO<sub>2</sub>e shows that surface dressing represents 73% of the proposed works programme by area but just 37% by CO<sub>2</sub>e emissions. As such surface dressing treatments result in the lowest CO<sub>2</sub>e footprint per m<sup>2</sup>, with the CO<sub>2</sub>e footprint of surface dressing being approximately just over a quarter of that of resurfacing, while nearly less than a seventh of reconstruction.

Reconstruction works account for 11% of the proposed works programme by area but 34% of the CO<sub>2</sub>e footprint. The majority of this reconstruction work is focused on the unclassified network, as identified as identified in Phase 2 of the TAMP and borne out by the condition of the network.

It is clear therefore from the assessment of the CO<sub>2</sub>e footprint of the programme that the TAMP approach not only provides the most efficient use of monetary resources but also allows significantly larger areas of the network to be maintained to a good standard at the lowest CO<sub>2</sub>e footprint.

The high CO<sub>2</sub>e footprint of reconstruction schemes can be reduced by approximately 25% by the use of ex-situ recycled materials instead of hot mix asphalt. Extending the use of ex-situ recycling to all reconstruction schemes would have provided an additional saving of 114 tonnes of CO<sub>2</sub>e. There are discrete operational differences and challenges to using ex-situ recycled material over traditional hot mix asphalt, which has limited its use to date. However, through its use of the last 2 years confidence is growing and will be eased by the commencement of a new framework contract for the supply of ex-situ recycled materials in the next financial year.

There may also be scope to combine ex-situ recycling and surface dressing to provide additional cost and CO<sub>2</sub>e savings, although again this has significant operational and technical challenges but is being investigated and progressed. In addition, if used on resurfacing schemes where just the top 40-50mm of surface is replaced this could also potentially provide an additional approximate 10% CO<sub>2</sub>e saving on top of those realised on resurfacing schemes via the use of warm mix asphalt.

Beyond the CO<sub>2</sub>e savings made through ex-situ recycling it is also important to consider that it reuses finite resources such as aggregate and bitumen, providing consequential benefits such as reduced environment impact through reduced quarrying and crude oil processing.