



# City of Dublin

## Request for Services

### Pavement Condition Testing

January 20, 2023

The City of Dublin respectfully requests that a quote for the professional services described below. All quotes must be received by **February 10, 2023**.

#### **A. Project Identification**

The City of Dublin is seeking additional pavement data for our Annual Street Maintenance Program to help us better design, plan, prioritize and estimate our work.

#### **B. Services Requested Overview**

Determine pavement thickness by ground penetrating radar (GPR) and / or mechanical coring techniques. Perform non-destructive pavement deflection testing and analyze the data to provide recommended treatments to predefined segments of roadway in order to provide the most cost effective method of rehabilitation.

#### **C. Detailed Description**

Determine pavement thickness by ground penetrating radar (GPR) and / or mechanical coring; GPR shall follow ASTM D4748-10 *Standard test Method for Determining the Thickness of Bound Pavement Layers Using Short Pulse Radar*. GPR testing shall be performed on each segment, or as determined appropriate by the Consultant. Core pavement to verify pavement condition, thickness and composition. All pavement cores shall follow ODOT standards and shall be backfilled with suitable asphaltic concrete material. A minimum of one core per segment shall be performed, or as determined appropriate by the Consultant.

A heavy-duty falling weight deflectometer (FWD) shall be used to calculate stiffness-related parameters of the pavement structure. The moduli of individual layers are calculated based on surface deflections induced by the FWD machine and the pavement layer thickness. These moduli provide critical information regarding the pavement's structural condition. The subgrade Resilient Modulus (Mr) is used in MEPDG pavement design. The consultant shall determine the number of tests

performed per segment, but a minimum of one test shall be performed on each pavement segment

The Consultant shall evaluate all of the collected data as well as any existing information by others to assess the current pavement condition and deficiencies to determine a matrix of rehabilitation options in order to provide the most cost effective method of rehabilitation for each pavement segment defined in Attachment A and identified in the referenced web map.

#### **D. Attachments**

Attachment A – 2024 Street Program (estimated 11.74 miles)

Web map address: <https://arcg.is/1mnKLR>

#### **E. Deliverables**

A report listing all pertinent data for each roadway segment including but not limited to pavement thickness and recommended pavement treatment. The data shall be delivered in both PDF and Microsoft Excel format.

#### **F. Project Completion Time**

The completion time for this project shall be 45 days from the execution of the Contract, but no later than **July 31, 2023**.

#### **G. Project Contact**

Robert Taylor, P.E., Director – Asset Management & Quality Assurance  
[rjtaylor@dublin.oh.us](mailto:rjtaylor@dublin.oh.us)  
614.410.4775

Sincerely,

*Robert J Taylor*

Robert Taylor, P.E.  
Director, Asset Management & Quality Assurance

Attachment A

Project Number	LSN	Miles	Avg. 2023PCI
AT241	Abbie Glen Blvd	0.04052	63
	Alimoore Grn	0.18192	75
	Aryshire Dr	0.05817	67
	Avemore Ct	0.21274	93
	Baronscourt Loop	0.5766	67
	Baronscourt Way	0.39249	73
	Blunden Rd	0.10994	62
	Bowles Ct	0.08553	57
	Bryne Ct	0.09562	60
	Cara Ct	0.08718	72
	Charmonte Ct	0.05402	58
	Clifton Ct	0.13044	63
	Conquistador Ct	0.06994	71
	Cosgray Rd	0.25545	67
	Coventry Woods Dr	0.13294	56
	Crosshaven Ln	0.05871	82
	Dale Dr	0.05404	69
	Davington Dr	0.15885	88
	Drury Rd	0.07289	62
	Dublin Rd	0.18189	84
	Enterprise Ct	0.10794	62
	Frantz Rd	1.12486	73
	Green Stone Loop	0.24647	69
	Greenland Pl	0.17507	67
	Hathaway Ct	0.15506	72
	Hyland-Croy Rd	0.33777	67
	Kildoon Ct	0.07298	57
	Killilea Ct	0.09498	57
	Killilea Dr	0.07819	65
	Leith Dr	0.37467	71
	Mcgreevy Dr	0.17822	73
	Mcneven Ct	0.08309	72

Memorial Dr	0.68454	66
Myrtlestone St	0.10322	70
N High St	0.30344	89
Nolon Ct	0.07876	69
Norn St	0.2007	50
Oak Meadow Dr	0.40396	61
Oak Park Blvd	0.12621	74
Oak View Ave N	0.09476	55
Oak View Ave S	0.09476	59
Oaktree Dr N	0.11626	-5
Oaktree Dr S	0.11719	-5
Perimeter Dr	0.49628	50
Pleasant Dr	0.2784	64
Preswick Dr	0.15548	81
Primrose Ct	0.07801	69
Red Stone Loop	0.20366	77
Shamrock Blvd	0.281	67
Sharp Ln	0.35741	54
Shier-Rings Rd	0.56713	71
Snowdrop Ct	0.07798	71
Summerhouse Dr E	0.29733	72
Summerhouse Dr W	0.42998	78
Sweeny Ct	0.05833	74
Wicklown Ct	0.09424	61
	11.7382	