



Bernard C. "Jack" Young
Mayor

Project #1295 – On Call Design, Construction and Program Management Services for Transportation Projects

Baltimore City Department of Transportation

**Note: Baltimore City Office of Boards and Commissions (OBC) prequalification list is as follows: engineering, architecture, landscape architecture, surveying, property line surveying, land surveying, and construction management. If a firm has not been prequalified by OBC to perform work in the applicable discipline the firm is submitting for, the firm is required to submit a Standard Form 254 (inclusive of five references with telephone contact information) and a Standard Form 255 with their proposal. The Standard Form 254 can be found at the following:*

<https://publicworks.baltimorecity.gov/Contractor-Consultant-Prequalification>

Below are general Scope of Services Descriptions for all sixteen (16) Categories included in the advertisement. The listing is intended to provide potential applicants with expectations of Baltimore City Department of Transportation and services should be considered as “to include but not limited to”:

1) Roadway & Streetscape Design

- Horizontal and Vertical Profile Establishment
- Geometric Design / Safety Improvements
- Roadway Signage and Pavement Marking Design
- Multimodal Access / Improvement Design
- Streetscape Design
- Cost Estimating
- Pavement Design
- Maintenance of Traffic Design
- Hardscape and Landscape Design
- Concept Roadway Design
- Contract Specification Development
- CADD Services, Microstation, InRoads, Etc.
- Constructability Review
- Stormwater Management Design
- Utility Design
- Lighting Design
- Erosion and Sediment Control
- Surveying
- Right-of-Way Services
- ADA Compliance

2) Bridge Design

- Structural Condition Evaluations / Inspections, Emergency Inspections (inclusive of appurtenant electrical and mechanical systems) with Recommendations
- Type, Size, and Location Design
- Preparation, Development & Review of Architectural Drawings, Preliminary Structural Analysis
- Concept Design
- Retaining Wall Design
- Culvert Design
- Bridge Lighting Design
- Maintenance of Traffic Design
- Cost Estimating
- Foundation Design
- Superstructure Design
- Constructability Review
- Bridge Maintenance Engineering / Evaluation / Recommendation
- Utility Design on Structures and Approaches
- Stormwater Management Design
- Erosion and Sediment Control Design
- Traffic Design
- Surveying
- Right-of-Way Services
- Historical Impact Analysis

3) Conduit Duct and Manholes Design

- Conduit Alignment Design
- Existing Manhole Evaluations
- New Manhole Design
- Program Evaluation / Management
- Utility Coordination
- Constructability Review / Management

4) Construction Engineering and Management

- Construction Inspection Services
- Construction Project Management Services
- Submittal and Material Tracking / Management
- Management of Change Orders, Claim Review, Requests for Information, Construction Estimates and Payments, and Schedules
- Supplying Equipment for Surveying, Testing, Communication, and Office Services Related to Construction
- Constructability Review
- Assistance in Monitoring of Construction Contractor Performance

- 5) Streetlight and Traffic Signal Design
 - Photometric Analysis and Design
 - Development of Plans, Specifications, and Estimates
 - Design Installation, Relocation, and Removal of Streetlighting (Roadway, Pedestrian, Architectural, Landscape and Facility Lighting)
 - Tunnel, Underpass, and Underdeck Lighting Design
 - Conduit Design
 - New Traffic Signal Installation Design,
 - Modification of Existing Traffic Signal Design (Relocation, Removal, Upgrading, Etc.)
 - Traffic Signal System Communication Design
 - Intelligent Transportation System Services
 - Various type of studies pertaining to signals & ITS
 - Data Collection and analysis which may include but not limited to travel time, signal performance measures, counts etc.
 - Capacity Analysis, Level of Service of signalized intersections, and Evaluation of signal operation and recommendation for improvements.
 - Signal warrant analysis
 - Signal timing modeling/simulation
- 6) Traffic Engineering (Operations and Safety)
 - Collection and Evaluation of Traffic Data
 - Crash Data Collection and Analysis
 - Capacity Analysis, Level of Service, and Evaluation of Existing Traffic Conditions with Recommendation of Improvement to the Roadway Network
 - Traffic Simulation
 - Traffic Calming and Corridor Studies
 - High Level of MOT design including temporary signal timing modeling/optimization.
 - Evaluation and design of signs & marking
 - Stop sign warrant analysis
- 7) Geotechnical Investigations and Studies
 - Soil Borings, Boring Logs
 - Test Cores
 - Test Pitting
 - Laboratory Tests, Analysis and Recommendation
 - Geotechnical Investigation Reports and Foundation Reports
 - Ground Penetrating Radar (GPR)
- 8) Environmental Engineering Investigations and Studies
 - Air Quality, Water Quality, Noise, Neighborhood Impact Studies
 - Cultural Resource Evaluation and Impact Studies
 - National Environmental Policy Act (NEPA), Section 106 of the National Historic Preservation Act, Executive Order on Environmental Justice, and Section 4(f) requirements
 - Mapping, Reports, Impact Statements, Mitigation Recommendations, Draft and Final Environmental Reports

- Public Involvement for Environmental Studies
 - Watershed Assessments and Studies
 - NPDES Permitting Support
 - Field Data Collection
- 9) Transportation Planning Studies
- Parking Evaluation and Plans
 - Truck and Freight Management Plans
 - Traffic Impact Studies
 - Multimodal Transit Plans
 - Scenario Planning, Strategic Planning
 - RFP Development
 - Transportation Demand Modeling, Management, Alternatives Analysis
 - Development Review and Analysis
 - GIS Services
 - Graphic Design
 - Bus Transit Planning and Operational Services
 - Maritime Transit Planning and Operation Services
 - Grant Assistance
 - Concept Development Studies
 - Corridor Studies
- 10) Public Participation and Partnering
- Public Participation Work Plans
 - Rendering Development, Presentation Materials for Public Meetings, Mapping, Brochures, Videos, PowerPoint Presentations
 - Website Development and Maintenance
 - Educational Campaign Services
 - Partnering / Stakeholder Activities
- 11) Bicycle and Pedestrian Studies, Planning, and Design
- Collection of Data Related to Bicycle / Pedestrian
 - Bicycle Trail Design
 - Bicycle Infrastructure Design
 - Bicycle and Pedestrian Studies
- 12) Pavement Management & Infrastructure Data Collection
- Pavement Condition Data Collection and Analysis
 - Asset Data Collection, Inventory, and Analysis
 - Recommendation Development, Program Establishment
- 13) Materials Testing
- Construction Material Testing
 - Furnish and Maintain Testing Equipment, Accessories, Sampling Devices, and Personnel
 - Concrete
 - Asphalt
 - Soils

- Aggregates
- Metals
- AASHTO Accredited, AASHTO / ASTM Standards (Lab Requirements)
- Test Reports
- Hazardous Material Analysis, Contaminate Material Analysis, Soil Analysis

14) Building Design

- General Multi-purpose buildings
- Building Code Upgrades and Retrofits
- HVAC, Electrical, Plumbing, Power, and Lighting Control Systems

15) Program Management

- Financial, Scheduling, and Strategic Planning
- Project Budget Analysis
- Program Development
- Public Policy Support and Public Relations
- External Stakeholder Coordination
- Utility Coordination
- Project Scheduling and Payment Coordination
- Document Control
- Project Close-Out Assistance
- Electronic Data Collection Management and Support

16) Stormwater Management and Green Infrastructure Design

- Preparation of Plans, Specifications, and Estimates
- Design of Stormwater Management Facilities
- Hydrologic and Hydraulic Analysis
- Development of Reports
- Planting and Landscape Plans
- Closed and Open System Drainage Infrastructure
- Floodplain Studies, Flood Control Analysis
- ESD and Stormwater Management BMPs