

## **EXHIBIT A SPECIAL PROVISIONS**

### **SCOPE OF WORK**

The Contractor shall provide all equipment, personnel, and supplies required to perform its underground locating services (potholing). "Locate" shall mean to obtain the horizontal and vertical position of a subsurface facility using approved prospect hole methods. The Contractor shall determine which equipment, personnel, and supplies are required to perform its locating services. The Contractor shall provide these services as requested in writing by the Engineer to aid in (1) the design of projects, and (2) to facilitate orderly construction of municipal utilities, etc.

The Engineer shall provide plans showing the alignment, centerline, profile (where available), benchmark data, and locations of the required test holes for the selected project.

The Contractor shall obtain all necessary permits from City, county, or other municipal jurisdictions to allow the Contractor to work in existing streets, roads, and rights of way for the purpose of marking, measuring, excavating, and recording the location of existing underground utilities. The Contractor shall not be responsible, however, for obtaining permits for digging, or other excavating work that is not to be performed by the Contractor pursuant to this Contract. The Contractor shall comply with the latest version of the "City of Tempe Utility Permit and Construction Manual".

The Contractor is responsible to apply for and obtain the required "Pothole Permit" for each Work Order. Fees for the Pothole Permit will be reimbursed to the Contractor through the Work Order for each project at the current rate outlined in the Tempe City Code - Appendix A - Schedule of Fees and Charges. The Contractor will use the Pothole Permit Number to apply for the Traffic Control Plan, which will be submitted at the Pre-Construction Meeting.

The Contractor shall comply with applicable underground utility damage prevention laws. The Contractor shall coordinate with utility company inspectors as required.

The Contractor shall excavate test holes to expose the utility to be measured in such a manner to ensure the safety of the excavation and the integrity of the utility to be measured. The maximum size opening within the roadway shall not exceed one (1) square foot.

The Contractor shall furnish and install color coded permanent markers directly above the centerline of the subsurface object and record the distance from the

concrete or pavement surface to the underground facility. When subsurface objects are not beneath sidewalk or asphalt surfaces, elevations (using the Tempe GIS base data) of the target object shall be established, or the Contractor may place a stable wood or steel stake near the prospect hole and provide differential elevations to that point, as directed by the Engineer. Markers are to be whiskers in soil, and brass washers and concrete nails in paved surfaces. All markers and brass washers shall be labeled with the Contractor name and year of excavation. Whiskers and ribbons shall be colored-coded per "Arizona 811" colors to appropriately identify the type of utilities located.

Where applicable, the Contractor shall provide permanent restoration of pavement within limits of the original cut. Restoration shall be per MAG Standard Detail 212 Type A as detailed per the City of Tempe Engineering & Transportation Maintenance Pavement Restoration Policy, December 1, 2020. Whenever test holes are excavated in areas other than roadway pavement, these disturbed areas shall be restored to as good or better condition than those which existed prior to excavation.

The Contractor shall conform to the approved traffic control plans and always have a copy of the approved traffic control plan on site.

The Contractor shall provide notification, when required, to adjacent property owners concerning locating activities on all projects.

The Contractor shall conform to Arizona 811 and any applicable Arizona Revised Statutes, to ensure the safety of the excavation and the integrity of such utilities.

### **TEST HOLE INFORMATION REQUIREMENTS**

The Contractor shall provide the following test hole information as requested by the City. Refer to sample test hole location sketch in Appendix.

### **PRIMARY LOCATING INFORMATION**

Primary locating information services is incidental to Items 1-9 in the proposal. The following applicable data shall be shown on a test hole sketch or exhibit (CAD, GIS, etc.) for each pothole if requested. At minimum, a digital file (.TXT, .XLSX, .CSV, etc.) with the below information shall be provided:

Horizontal location shall be referenced using clearly identified, accepted Tempe coordinates (NAD83 AZ State Plane Central, City of Tempe Coordinates, State Plane 2022 when available).

Depth from surface to top of utility measured in decimal feet (to the hundredth) or geoid elevation in decimal feet (to the hundredth). Pothole surveys shall show and reference a known City of Tempe benchmark with the surveyed elevation.

Outside diameter of pipe or width and thickness of duct banks and configuration of non-encased multi- conduit systems. When pipe diameter can be interpreted, it shall be included.

When possible, to discern, approximate direction (cardinal direction, azimuth, or bearing, etc.) of pipe/duct bank/underground utility at pothole shall be noted.

Utility structure material composition, when reasonably ascertainable.

Paving thickness and type, and where applicable, the general soil type, site conditions, and depths of any notable horizontal changes.

Current Tempe geodetic standards are:

Horizontal Control: City of Tempe Low Distortion Projection as defined by “Tempe, Arizona Survey Control,” dated 09-19-2013, located at <https://www.tempe.gov/government/public-works/engineering/land-services-survey-floodplain-management>

North American Datum 1983, Arizona State Plane Central Zone, FIPS 0202

Vertical Control: NGVD 1929

### **DURATION OF CONTRACT**

The duration of the Contract shall be from the date of the Notice to Proceed until one year thereafter, unless earlier terminated pursuant to Section 108.11 of the MAG Specifications.

### **CONTRACT EXTENSION**

By mutual written contract amendment, any resultant contract may be extended for supplemental periods of up to a maximum of twenty-four (24) months. Any single extension period is to be in an increment of not more than twelve months each.

### **FIRM EXPERIENCE**

The bidder shall provide a summary of their prior experience using vacuum excavating techniques with the bid. The firm is required to have an office within Maricopa County. Bidders not meeting these requirements will be considered non-responsive.

## **USE OF INFORMATION**

The Engineer understands and agrees that all reports, forms, drawings, memoranda, computations, and other information, whether recorded or unrecorded, provided by the Contractor (all of the foregoing are hereinafter collectively referred to as the "Information") are provided only as a service to the Engineer. The Engineer understands that the Contractor's services and the information are not substitutes for full compliance with all applicable underground utility damage prevention laws, for any notice that must be given under the applicable "on-call" notification system, nor for any notification that must be given directly to any utility owner.

## **ENGINEER'S RIGHTS IN THE INFORMATION**

The information delivered to the Engineer in accordance with the terms of this Contract shall become and remain the property of the Engineer upon termination or expiration of this Agreement provided the Engineer has complied with all terms, covenants, and conditions contained herein. Except as otherwise provided herein, the Engineer shall have the right to use the information for purposes consistent with the terms, covenants, and conditions hereof without additional compensation to this Contractor.

## **RESPONSE**

Seventy-two (72) hour response time is required. The City reserves the right to contact other vacuum excavating companies for emergency locating should the Contractor not be immediately available for such work following a request for service.

## **EXTENSION OF BID PRICES**

Other utilities may request and use service through Tempe's contract at unit rates established when so authorized by the Engineer.

## **MEASUREMENT AND PAYMENT**

Payment will be made at the unit bid price for each pothole and for each pothole repaired complete.

Payments will be made within fourteen (14) days of acceptance of Pay Request by the City Engineer with no retention held. Payment for various items in the Bid shall be compensation in full for furnishing all materials, labor, tools, equipment, primary locating information services, and appurtenances necessary to complete the work in a satisfactory manner as specified.

No additional payment will be made for work related to any item unless specifically called for in the bid.

Materials placed without approval of the inspector or materials rejected due to improper placing, improper proportions of materials, or materials found to be defective, will not be paid for and shall be replaced by the Contractor prior to submittal of the request for payment.

**Item No. 1 Underground Utility Locating - Arterial Street 1-5 Holes**

**Item No. 2 Underground Utility Locating - Arterial Street - 6-10 Holes**

**Item No. 3 Underground Utility Locating - Arterial Street – 11 or more Holes**

Shall include vacuum excavation services for locating utilities in Arterial Streets at varying depths below ground on pavement surface, including asphalt/concrete removal and disposal, excavation, replacement bedding, temporary backfill, compaction and paving if needed.

Restoration of potholes in vehicular traffic areas shall be per requirements of Item 10 through Item 12 below.

Restoration of potholes in non-vehicular traffic areas shall include bedding as shown in the Utility Pothole Repair detail with compacted native soil allowed above the bedding and surface material to match existing in type and thickness.

Payment will be made at the contract unit cost for each pothole including survey, traffic control.

**Item No. 4 Underground Utility Locating - Local/Collector Street - 1-5 Holes**

**Item No. 5 Underground Utility Locating - Local/Collector - 6-10 Holes**

**Item No. 6 Underground Utility Locating - Local/Collector - 11 or More Holes**

Shall include vacuum excavation services for locating utilities in Arterial Streets at varying depths below ground on pavement surface, including asphalt/concrete removal and disposal, excavation, replacement bedding, temporary backfill, compaction and paving if needed.

Restoration of potholes in vehicular traffic areas shall be per requirements of Item 10 through Item 12 below.

Restoration of potholes in non-vehicular traffic areas shall include bedding as shown in the Utility Pothole Repair detail with compacted native soil allowed above the bedding and surface material to match existing in type and thickness.

Payment will be made at the contract unit cost for each pothole including survey, traffic control.

**Item No. 7 - Underground Utility Locating - Signalized Arterial Intersection 1-5 Holes**

**Item No. 8 - Underground Utility Locating - Signalized Arterial Intersection - 6-10 Holes**

**Item No. 9 - Underground Utility Locating - Signalized Arterial Intersection - 11 or more Holes**

Shall include vacuum excavation services for locating utilities in Arterial Streets at varying depths below ground on pavement surface, including asphalt/concrete removal and disposal, excavation, replacement bedding, temporary backfill, compaction and paving if needed.

Restoration of potholes in vehicular traffic areas shall be per requirements of Item 10 through Item 12 below.

Restoration of potholes in non-vehicular traffic areas shall include bedding as shown in the Utility Pothole Repair detail with compacted native soil allowed above the bedding and surface material to match existing in type and thickness.

Payment will be made at the contract unit cost for each pothole including survey, traffic control.

**Item No. 10 - Permanent Utility Pothole Repair-MAG Std Det 212 Type A - Asphalt**

Restoration shall be per MAG Standard Detail 212 Type A as detailed and per Section 6 of the City of Tempe Engineering & Transportation Maintenance Pavement Restoration Policy, December 1, 2020.

Pavement will be made at the unit cost bid per each for asphalt restoration.

**Item No. 11 - Permanent Utility Pothole Repair-MAG Std Det 212 Type A - Concrete**

Boring restoration shall be per MAG Standard Detail 212 Type A as detailed and per Section 6 of the City of Tempe Engineering & Transportation Maintenance Pavement Restoration Policy, December 1, 2020.

Boring/cutting into Portland cement concrete pavement, sidewalk, or other concrete flatwork shall require complete joint-to-joint replacement of damaged panels unless an alternative repair is required by contract documents or is authorized in writing by the Engineer.

Replacement of concrete disturbed by the vacuum excavation shall be in accordance with Section 340 of the MAG Specifications.

Payment will be made at the unit cost bid per each for concrete restoration.

**Item No. 12 - Permanent Utility Pothole Repair-MAG Std Det 212 Type A – Native Material**

Restoration of boring shall be per MAG Standard Detail 212 Type A as detailed and per Section 6 of the City of Tempe Engineering & Transportation Maintenance Pavement Restoration Policy, December 1, 2020.

Preservation and restoration of landscaped/native soil area shall be per MAG 107.9

Payment will be made at the unit cost bid per each for native material restoration.