



**INTERLOCAL AGREEMENT  
BETWEEN eCITYGOV ALLIANCE AND THE CITY OF SHORELINE  
CONCERNING THE 2020 AERIAL MAPPING PROJECT**

This Interlocal Agreement (“Agreement”) is made by and between eCityGov Alliance (“Alliance”), a public nonprofit corporation organized in accordance with a multi-jurisdictional interlocal agreement pursuant to chapter 39.34 RCW Interlocal Government Act, and the City of Shoreline (“City”), a Washington State municipal corporation organized as a non-charter optional code city pursuant to RCW Title 35A. This Agreement is authorized by chapter 39.34 RCW Interlocal Corporation Act. The Alliance and the City may be referred to herein collectively as the “Parties” or individually as a “Party”.

**I. PURPOSE**

The Alliance is a public body and instrumentality of its members to jointly exercise essential government functions of its members pursuant to chapter 39.34 RCW. The Alliance has created programs and services for its members and offers these on a subscription basis to, among others, Washington municipal corporations.

The Alliance is facilitating an orthophotography imagery program that would provide aerial imagery for various planning purposes, including infrastructure, utilities, and community development.

The City has an interest in participating in the orthophotography imagery program because acquiring high quality aerial orthophotography imagery is critical to the City’s ability to perform, planning services, permitting services, code enforcement, asset management, and maintain parks and rights-of-way.

Accordingly, the Parties desire to entire into this Agreement, under the authority of chapter 39.34 RCW Interlocal Cooperation Act, to undertake the orthophotography imagery program.

Pursuant to and in accordance with the foregoing and the powers accorded to the Alliance and the City, the Parties enter into this Agreement as an exercise of their joint authority.

NOW, therefore, in consideration of the mutual benefits of this Agreement, the Alliance and the City agree as follows:

**II. ATTACHMENTS**

The following attachments are incorporated by reference and made a part of this Agreement:

- A. The Project scope of work and technical specifications are set forth in Attachment 1.
- B. The Project Fees are set forth in Attachment 2.
- C. The Project Area covered for the City is set forth in Attachment 3

### III. DEFINITIONS

In administering this Agreement, the following definitions shall apply. Any term or phrase is not expressly defined below it shall be given its usual and customary meaning.

#### **Administrative Fees**

Administrative Fees are incurred through the administrative tasks necessary to manage the Project. This includes the responsibilities of the Alliance Executive Director, Project Manager and Administrative Staff responsibilities such as contract drafting, invoicing, finance management, issue identification and resolution, and technical support.

#### **Aerial Imagery**

Photographs captured from a manned aircraft and geo-referenced to ground control points.

#### **Base Product**

The base product is the acquisition of aerial imagery suitable for production of high-quality digital elevation data, high-resolution color orthophotography, and map compilation for the agreed upon project area. The product will be used to produce new ortho imagery and optionally, to update existing impervious surface features and topographic contours.

#### **High-Resolution**

Imagery in which each pixel of the imagery shall represent no more than one quarter (1/4) square foot area.

#### **Impervious Surfaces**

Surfaces which are intended to include but not limited to, paved surfaces, building foot prints, paving tiles, sport courts, car ports.

#### **Project**

The Project is the orthophotography imagery program that will provide high-quality imagery to be used for various planning purposes including infrastructure, utilities, and community development.

#### **Project Manager**

An independent contractor selected by Alliance who will provide regular communications, schedule updates, coordination with the City, and some data quality control services for the Project through a contract with the Alliance.

#### **Supplemental Fees**

Supplemental fees are in addition to the Vendor Fees for supplemental products requested by the City and invoiced separately from the Vendor Fee invoices.

#### **Supplemental product**

A product, such as topographic contours and impervious surface mapping, that are not part of the Base Product.

#### **Topographic Contours**

GIS dataset representing continuous elevation lines.

## **Vendor**

An expert aerial mapping firm, or team of firms, selected by Alliance to enter into a professional services agreement (PSA) covering the duration of the Project, who will have the responsibility of completing the scope of work (SOW) attached to this Agreement (see Attachment 1).

## **Vendor Fees**

Vendor fees will be based on a per-map cost negotiated with the Vendor, with City's totals varying depending on project area extents and adjacent agency project area overlaps. The Alliance will distribute a Project pricing spreadsheet to the City as a summary of what these costs will be.

## **IV. AGENCY COMMITMENTS – Roles and Responsibilities**

### **A. Alliance responsibilities.**

#### **1. Administration**

- a. The Alliance will serve as fiscal, administrative, coordinating and contracting agency on the Project through completion, estimated to be through January 31, 2021.
- b. The Alliance will engage or provide three individuals/vendors which include the following:
  - i. An aerial mapping vendor/vendor team ("Vendor") to utilize industry best practices and technology solutions to develop products meeting the City's business needs for the urban mapping environment.
  - ii. An experienced orthophotography coordinator who will act as the dedicated Project Manager who will monitor all Project phases and communicate effectively with Alliance, the City, and the Vendor.
  - iii. Alliance administrative staff who will assist with contract creation, financial transactions and other administrative support for the Project. The contract creation effort includes the Memorandum of Agreement, Professional Services Contracts and Scopes of Work for the Project Manager, as well as the Vendor.
- c. The Alliance will assign appropriate resources to manage the Project and act as managing agency with Alliance Executive Director as overall Project Administrator, who will also manage the staff providing administrative support and the Project Manager.
- d. Alliance will conduct the Project as contracting agent, coordinator, and overall manager.
- e. Alliance will develop a Project plan and timeline that will serve as the blueprint for all Project activities so as to ensure the Project is progressing satisfactorily through the various Project tasks and achieving a successful outcome.

#### **2. Project Manager**

- a. The Alliance shall select a Project Manager to manage Project tasks as an independent representative of the Alliance, working diligently to ensure timely completion and delivery of high-quality deliverables within the specified timeline and budget.
- b. Project Manager tasks include but are not limited to:
  - i. Communicating project status and other related information among the City and the Vendor(s),
  - ii. Attending all required meetings,

- iii. Updating the Project schedule as needed, and
- iv. Presenting project status reports.
- c. The Project Manager shall be retained by separate agreement to be executed by the Alliance, which shall state that the Project Manager is and shall act as an independent consultant and not as the employee, agent, or representative of the Alliance or the City in the performance of any services for the Alliance or the City .
- d. The Project Manager is expected to oversee an effective execution of Project tasks and activities, including regular interaction with both the City and Vendors.

3. Vendor

- a. The Alliance shall select a Vendor to perform and deliver Project deliverables as an independent entity from the Alliance or the City, working diligently to ensure timely completion and delivery of high-quality deliverables within the specified timeline and budget.
- b. Tasks to be performed by the Vendor are substantially defined in Attachment 1 to this Agreement.
- c. The Vendor shall be retained by separate agreement to be executed by the Alliance, which shall state that the Vendor is and shall act as an independent consultant and not as the employee, agent, or representative of the Alliance or the City in the performance of any services for the Alliance or the City.

4. Maintenance of Records

- a. The Alliance and its fiscal agent shall maintain books, records, documents and other evidence that sufficiently and properly reflect all direct and indirect costs expended in the performance of the Project and services related to the Project described herein.
- b. These records shall be subject to inspection, review or audit by personnel from the City, other personnel duly authorized by the City, the Office of the State Auditor, any person making a request for information under the Public Records Act, and federal officials so authorized by law.
- c. All books, records, documents, and other material relevant to this Agreement will be retained for six (6) years after expiration of the Agreement. The Office of the State Auditor, federal auditors, and any persons duly authorized by the City shall have full access and the right to examine any of these materials during this period. If any litigation, claim or audit is started before the expiration of the six (6) year period, the records shall be retained until all litigation, claims, or audit findings involving the records have been resolved.

**B. City Responsibilities**

- 1. Assign adequate staff or other resources to review Project deliverables within the indicated time constraints. Any deliverables returned to the Vendor for rework will also be subject to a redelivery/review/acceptance timeline.
- 2. Participate in all required meetings.
- 3. Timely issue payment for invoices.

## V. DELIVERABLES

- A. This Project is intended to provide an expedient data set to the City which has identified business needs for current aerial mapping products.
- B. The deliverables include aerial mapping products, and the Base Product will be high-resolution color orthophotography suitable for large-scale urban mapping applications as described in Attachment 1.
- C. The orthophotography will cover the area of interest indicated by the City in its entirety as shown Attachment 3.
- D. Supplemental Products, such as topographic contours and impervious surface mapping may be provided. These Supplemental Products will be accommodated as secondary priorities within the overall Project scope, with the color orthophotography being the primary deliverable.
- E. All data requested and paid for by the City will be provided to the City as the main deliverable, including both Base Product and Supplemental Product data.
- F. The City will own full legal title to such deliverables paid for and received pursuant to this Agreement. If the City terminates its participation in this Agreement, it will own any deliverables that it paid for and received, but it will not have any right to receive further deliverables relating to the Project under the terms of this Agreement.

## VI. CONTINGENCY

- A. In the event that a suitable leaf-off weather window (February 1 – April 1) is unavailable, the City will be asked to indicate to the Alliance its preference to one of the following:
  - 1. Cancel the Project and Terminate this Agreement (with partial payment of Vendor flight mobilization fees and Alliance expenses), OR
  - 2. Defer the flight either until:
    - a. The next suitable weather window, but no later than July 1, 2020, or
    - b. Spring 2021 (with partial payment of Vendor flight mobilization fees and Alliance expenses).

## VII. FINANCIAL TERMS AND PAYMENT PROCESS

- A. The Alliance agrees to serve as contracting agent for this Project, executing and administering a professional services agreement with its selected Vendor. The funding for the Project shall be as follows:
  - 1. Vendor fees. Alliance will distribute a Project pricing spreadsheet to the City as a summary of what these costs will be as shown in Attachment 2. These amounts will be based on a per-map cost negotiated with the Vendor.
  - 2. Administrative fees. Alliance will also include an administrative fee as part of the total costs as shown in Attachment 2. These amounts are based on costs incurred by Alliance to pay for the contracted Project Manager and the administrative work associated with

the Project. Administrative work includes contract creation and management, financial management and transactions, contractor management and general Project oversight.

3. Supplemental fees. If the City requests supplementary mapping products such as topographic contours and impervious surface mapping, these products will be invoiced as those deliverables. These fees will be set based on the contract with the Vendor to conduct this additional work and will be invoiced by the Alliance to pay the Vendor.

B. Alliance will invoice the City for progress payments using the following milestones/schedule:

1. Flight preparation (target January 31, 2020) – 50%
2. Orthophotography submission for review (target June 1, 2020) – 30%
3. Orthophotography final acceptance (target September 1, 2020) – 20%

The dates above are for Alliance accounting purposes only and are not the dates of the actual deliverable milestones from the vendor's work. These are dates to allow for up to 60 days of invoice collection in preparation for payment to the vendor closer to the actual deliverable dates.

- C. Since Vendor payment by Alliance is contingent on the City's payment to Alliance, prompt payment of each of these invoice cycles is required, in no case more than 60 calendar days from invoice receipt by the City. It is the City's responsibility to conduct deliverable reviews and acceptance within these time constraints so that Alliance can process Vendor payments as quickly as possible.
- D. If this Agreement is terminated as provided in Section VII(D), partial payment may be utilized if a Vendor Deliverable has not been completed/accepted according to the Agreement.

#### **VIII. EFFECTIVE DATE, AMENDMENT, DURATION, and TERMINATION**

- A. **Effective Date:** This Agreement shall be effective following the approval of the Agreement by the official action of the governing bodies of each of the Parties and the signing of the Agreement by duly authorized representatives of each Party. The Effective Date shall be the date of the last such signature as set forth below.
- B. **Amendment.** Any amendments to this Agreement shall be in writing and executed in the same manner as provided for the execution of this Agreement.
- C. **Duration.** This Agreement shall remain in full force and effect from the Effective Date through completion of the Project, or January 31, 2021, whichever comes first, unless terminated earlier as provided in Section VII(D).
- D. **Termination.**
  1. This Agreement may be terminated, in whole or in part, by mutual written agreement between the Parties with fourteen (14) days written notice to the other Party.
  2. Each Party shall have the right to terminate this Agreement for cause by giving fourteen (14) days' notice to Alliance in writing.
  3. In the event of such termination, all finished or unfinished documents, data, studies, worksheets, models and reports, or other material prepared by the Alliance pursuant to

this Agreement shall be submitted to the City. In the event this Agreement is terminated by City the Alliance shall be entitled to payment for all hours worked and products produced. This provision shall not prevent the City from seeking any legal remedies it may have for violation or nonperformance of any of the provision of this Agreement and any such charges due the City shall be deducted from the final payment due the Alliance.

4. Either Party shall have the right to terminate this Agreement if the other Party is in material breach of any term of this Agreement pursuant to Section XXX.

E. Continuing Obligations. Following any amendment or termination of this Agreement, each Party shall nonetheless fulfill all outstanding obligations or liabilities under this Agreement incurred or arising prior to the effective date of the amendment or termination.

#### **IX. INDEPENDENT CONTRACTOR**

In providing services under this Agreement, each Party is an independent contractor and neither it nor its officers, nor its agents nor its employees are employees of the other Party for any purpose, including responsibility for any federal or state tax, industrial insurance, or Social Security liability. Neither shall the provision of services under this Agreement give rise to any claim of career service or civil service rights, which may accrue to an employee of a Party under any applicable law, rule or regulation.

#### **X. HOLD HARMLESS AND INDEMNIFICATION**

A. To the extent permitted by state law, and for the limited purposes set forth in this Agreement, each Party to this Agreement shall protect, defend, hold harmless and indemnify the other Party, their officers, elected officials, agents and employees, while acting within the scope of their duties as such, from and against any and all claims (including demands, suits, penalties, liabilities, damages, costs, expenses, or losses of any kind or nature whatsoever) arising out of or in any way resulting from such Party's own negligent acts or omissions related to such Party's participation and obligations under this Agreement.

B. Each Party agrees that its obligations under this subsection extend to any claim, demand, and/or cause of action brought by or on behalf of any of its employees or agents. For this purpose, each Party, by mutual negotiation, hereby waives, with respect to the other Party only, any immunity that would otherwise be available against such claims under the industrial insurance act provision of Title 51 RCW. The provisions of this subsection shall survive and continue to be applicable to any Party exercising the right of termination.

#### **XI. DISPUTE RESOLUTION AND BREACH**

##### **A. Dispute Resolution.**

1. For the purpose of this Section, any written request or notice shall be sent to the Parties as set forth in Section XIII(H), Notices.
2. Performance of each Party's obligations and responsibilities of this Agreement, not subject to the dispute, shall continue during any dispute resolution or mediation proceedings.
3. If the Parties are unable to resolve the dispute after utilizing the methods set forth in this Section, then either Party may seek to enforce the provisions of this Agreement through any method afforded by law.

4. Methods of dispute resolution are as follows:
- a. Informal Resolution. It is the Parties' intent to work cooperatively and in good faith to resolve any disputes in an efficient and cost-effective manner. In the event of any dispute as to the interpretation or application of the terms or conditions of this Agreement, Alliance and the City, through their designated representatives, shall meet within ten (10) working days after the receipt of a written request from the other Party for the purpose of attempting, in good faith, the prompt resolution of the dispute. Such a meeting may be continued by mutual agreement of the Parties to a date certain to include other persons or parties, or to obtain additional information.
  - b. Mediation. In the event that such a meeting does not resolve the dispute, or the meeting is not held within ten (10) working days, prior to commencing any litigation, except for a request for a temporary restraining order or preliminary injunction, the Parties shall first attempt to mediate the dispute. The Parties shall mutually agree upon a mediator to assist them in resolving their differences. If the Parties cannot agree on a mediator, a mediator shall be designated by the American Arbitration Association. Any mediator so designated must be acceptable to the Parties. The mediation will be conducted in King County, Washington. Any Party may terminate the mediation at any time. All communications during the mediation shall be confidential and shall be treated as settlement negotiations for the purpose of applicable rules of evidence, including Evidence Rule 408. However, evidence that is independently admissible shall not be rendered inadmissible by nature of its use during the mediation process. The mediator may not testify for either Party in any subsequent legal proceeding related to the dispute. No recording or transcript shall be made of the mediation proceedings. The cost of any mediation proceedings shall be shared equally by the Parties. Any cost for a Party's legal representation during mediation shall be borne by the hiring Party.

B. Breach of Agreement.

1. If the Alliance fails to retain a Vendor and/or a Project Manager within the time period contemplated by this Agreement or fails to timely deliver the Base Products and Supplemental Products, if applicable, then the Alliance shall be considered in material breach of this Agreement. The Alliance shall cure this material breach within thirty (30) calendar days of the City's written request to perform. During this time, the City may without any and all payments due until such time as the Alliance cures this material breach.
2. If the Alliance fails to cure a material breach within thirty (30) calendar days of the request to perform, then this Agreement shall terminate and the Alliance shall not be entitled to any payments, invoiced or not invoiced.
3. Waiver of breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach and shall not be construed to be a modification of the terms of the Agreement unless stated to be such through written approval of the Parties.

## XII. FILING

A fully executed copy of this Agreement shall be filed with the Shoreline City Clerk and posted on the City of Shoreline website pursuant to RCW 39.34.040 within thirty (30) days of the Effective Date.



### XIII. ADDITIONAL TERMS

- A. **Governing Law and Venue.** This Agreement shall be governed by the laws of the State of Washington. The venue for any action hereunder shall be in the Superior Court of Washington for King County.
- B. **Compliance with laws.** In meeting the commitments encompassed by this Agreement, the Parties shall comply with all applicable state or local laws.
- C. **Interpretation.** This Agreement shall be interpreted to the extent possible in a manner consistent with all applicable laws and not strictly for or against either party.
- D. **Severability.** If any of the provisions contained in this Agreement are held illegal, invalid, or unenforceable, the remaining provisions shall continue in full force and effect. If any provision of this Agreement shall be held invalid, such invalidity shall not affect the other provisions of this Agreement which shall remain in effect without the invalid provision, if such remainder conforms to the requirements of applicable law and the fundamental purpose of this Agreement. To this end, the provisions of this Agreement are declared to be severable. Should the invalidated provision be necessary to accomplish the purpose of the Agreement, the Parties agree to negotiate a provision which will allow such purpose to be accomplished. If agreement cannot be reached on a replacement provision, the Agreement will be deemed terminated as of the date required by the invalidation.
- E. **Survival.** Terms of this Agreement, which by their nature would continue beyond termination, will survive termination of this Agreement for any reason, including without limitation, terms in Sections IV(1)(4), VIII(E), X, and XI(A)(b).
- F. **No Waiver.** The failure of any Party to exercise any rights or remedies under this Agreement shall not be a waiver of any obligation by that Party and shall not prevent any Party from pursuing the right at any future time.
- G. **No Third-Party Beneficiaries.** This Agreement is for the benefit only of the Parties and is not intended to benefit any other person or entity. No person or entity not a party to this Agreement shall have any third-party beneficiary or other rights whatsoever hereunder. This Agreement is not intended to and shall not be construed to benefit a particular class of persons or individuals.
- H. **Notice.** Any notice required by this Agreement is effective only if provided in writing to the individual designated in this section or to their successors. Notice shall be delivered electronically via email except a notice of amendment, termination, or breach shall be delivered both electronically via email and by U.S. Certified Mail.

eCityGov Alliance  
Attn: Executive Director  
PO Box 90012  
Bellevue, WA 98009-9012  
info@ecitygov.net

City of Shoreline  
Debbie Tarry, City Manager  
17500 Midvale Avenue N  
Shoreline, WA 98133  
dtarry@shorelinewa.gov

- I. Entire Agreement. This Agreement contains all the terms and conditions agreed upon by the parties. No other understandings, oral or otherwise, regarding the subject matter of this Agreement shall be deemed to exist or to bind any of the parties.
- J. Non-Discrimination. No Party shall discriminate against any person on the grounds of race, creed, color, religion, national origin, sex, age, marital status, political affiliation or belief or the presence of any sensory, mental or physical handicap in violation of any applicable federal law, Washington State Law Against Discrimination (RCW chapter 49.60) or the Americans with Disabilities Act (42 USC 12110 et seq.). In the event of the violation of this provision, the other Party may terminate this Agreement immediately.
- K. Legislative Changes. The parties intend this Agreement to remain effective in the event of legislative change to authority cited above. The provisions of this Agreement shall be deemed to change in a manner that is consistent with any changes to cited authority.
- L. No Joint Venture or Partnership. No joint venture, separate administrative or governmental entity, joint board, or partnership is formed as a result of this Agreement.
- M. Successors and Assigns. Neither the City nor the Alliance shall assign, transfer or encumber any rights, duties or interests accruing from this Agreement without the written consent of the other.
- N. Public Records Act. The Parties are both public agencies subject to Washington's Public Records Act, chapter 42.56 RCW, and that all documents produced in connection with this Agreement, including audit records, may be deemed a public record as defined in the Public Records Act and that if a public records request received, unless a statute exempts disclosure, the custodial party must disclose the record to the requestor.
- O. Headings and Construction. Section headings are intended as information only and shall not be construed with the substance of the section they caption. In construction of this Agreement, words used in the singular shall include the plural and the plural the singular, and "or" is used in the inclusive sense, in all cases where such meanings would be appropriate.
- P. Execution in Counterparts. This Agreement may be executed in several counterparts, each of which shall be deemed an original, and all counterparts together shall constitute but one and the same instrument.
- Q. Authority to Execute. Each individual executing this Agreement on behalf of the respective entity represents and warrants that he or she is duly authorized to execute and deliver this Agreement on behalf of such entity, and that this Agreement is binding upon that entity in accordance with its terms.

This Agreement is executed by:

eCityGov Alliance

Tyler Running Deer  
(Signature)

February 12, 2020  
(Date)

Tyler Running Deer, Executive Director  
(Print Name)

City of Shoreline

Debbie Tarry  
(Signature)

2/10/2020  
(Date)

Debbie Tarry, City Manager

Approved as to Form:

Attorney for eCityGov Alliance: \_\_\_\_\_

Attorney for City of Shoreline: [Signature] 2/10/20

This Agreement is executed by:

eCityGov Alliance

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Print Name)

City of Shoreline

*Debbie Tarry*  
\_\_\_\_\_  
(Signature)

*2/10/2020*  
\_\_\_\_\_  
(Date)

\_\_\_\_\_  
Debbie Tarry, City Manager

Approved as to Form:

Attorney for eCityGov Alliance: \_\_\_\_\_

Attorney for City of Shoreline: *[Signature]* *2/10/20*

ILA 9610.1



Proposal for Aerial Mapping Services

Date: 3/24/2020

Job # 200069

Submitted to: Ryn Nolet, IT Systems Analyst, GISP
City of Shoreline
17500 Midvale Ave N
Shoreline, WA 98133-4905
rnolet@shorelinewa.gov

Project Overview
Utilize 2020 eCityGov Alliance base products (stereo imagery, aerotriangulation, final rectified orthophotos, etc.) and other sources to develop new and/or updated supplemental deliverables. These may include impervious features, topographic contours, and enhanced derivative products such as resampled imagery mosaics. All such products will be delivered in appropriate GIS format including ArcMap file geodatabase, MrSID, etc. Delivery will be in 3rd-4th Quarters 2020.

Project Name: Shoreline New Impervious Features
Location: Shoreline, WA

Table with 3 columns: Item, Specification, Notes. Rows include Project Extent, Base Products, New Impervious Features, Ortho Supplementals, and Primary Delivery via.

- Deliverables:
\* Impervious Feature in Arc Geodatabase format.
\* 4-band (RGBIr) 2020 eCityGov Alliance orthos.
\* Project Metadata (technical details) in PDF Format

Estimated Schedule: By end of year for 2020 spring fight.

Table with 2 columns: Item, COST. Rows include New Impervious Features (\$33,900) and 4-Band Ortho Delivery (\$507). Includes Notes for each row.

Price Valid: For 12 months from receipt by client.

Total amount approved by City of Shoreline to include as supplemental products with 2020 eCityGov Alliance contract = \$34,407

Submitted by: GeoTerra
Leanne Mitchell
Project Coordinator
GeoTerra, Inc.
www.geoterra.us
541-914-1582

By: Debra S Parry
Name: Debra S Parry
Position: City Manager
Date: 4/16/2020



## City of Shoreline - Proposed Impervious Features

GeoTerra will generate a NEW impervious surface coverage. Impervious surfaces are defined as any surface that water cannot percolate; it does not typically include packed gravel or other similar surfaces. Additional cost for collection of packed gravel surfaces can be provided. GeoTerra will develop layers as shown below with closed-polygon areas defined in ArcGIS format. Topology checks will be performed to prevent slivers and gaps. Data can be updated and maintained in future years at a lower overall cost given the quality and structure of the new data set. We recommend updating the surface layers at least every 3 to 5 years. After this, the cost to “update” vs. all new data collection will rise and eventually be uneconomical vs. new mapping.

- Buildings / Structures, 100 square feet or larger (with 3D drip line of structure and max. height)
- Concrete Pads (10' x 10' or larger, non-private areas but does include commercial properties)
- Paved Roads\*
- Bridges & Overpass Structures
- Driveways\* (paved; non-private areas including commercial properties and multi-family apartment areas)
- Sidewalks (public, multifamily, and commercial areas)
- Parking lots\* / other large paved public areas like sports courts – commercial areas included

*\*(No collection of unpaved features)*