

EXHIBIT A

CITY OF SNOQUALMIE SNOQUALMIE PARKWAY REHABILITATION PROJECT PRELIMINARY AND FINAL DESIGN SERVICES

PROJECT NO. 09SNO01XXXXX

SCOPE OF WORK

August 30, 2022

A. PROJECT DESCRIPTION / BACKGROUND

Snoqualmie Parkway is a four-lane boulevard/arterial. The project limits extend from approximately 50 LF south of SE 99th St intersection to the southwest side of the railroad crossing train tracks at the SR-202 (Railroad Ave) signalized intersection. The project length is approximately 18,150 LF along centerline, or 3.44 roadway miles. There are seven signalized intersections and an additional ten non-signalized intersections and driveway entrances onto the Parkway within the project limits. The asphalt has aged to varying degrees of deterioration and needs rehabilitation. ADA ramps and push buttons that are within grind and overlay limits that do not meet current ADA requirements will be identified and replaced or documented to maximum extent feasible, as required. Traffic Loops will need to be replaced in accordance with King County Standards.

This project has State Funds for both design and construction from the State's Move Ahead Washington (MAW) Capital Projects Program and the City of Snoqualmie.

The goal is to advertise the Project for Bids in February 2023.

B. ASSUMPTIONS

The following are project assumptions:

- This project will not make changes to the vehicle signals within the corridor. The only impact will be in-kind signal loop replacement. During construction, signals will be placed on designated timers and controlled by King County. This scope does not include temporary video detection design.
- Project pavement grind and overlay rehabilitation limits will stop at the southwest side of the train tracks and Railroad Crossing at the SR-202 (Railroad Ave) Intersection.
- Design and construction activity for pavement grind and overlay rehabilitation shall remain between curb to curb and/or edge of pavement when no curb and sidewalk present.
- WSDOT Channelization Plans adhering to NW Region Channelization Checklist will not be required for this Project.
- The City will provide final typical section including depth, grade, and paving section for this project utilizing existing as built information and visual surface inspection. A pavement design analysis, pavement cores, and deliverable geotech report are not included in this project scope.
- The City will create and coordinate all public outreach efforts for this project.
- The City will create and coordinate all franchise utility efforts for this project.

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- Horizontal and vertical datums utilized will be NAD83/2011 and NAVD88 respectively.
- The City will coordinate all efforts for WSDOT approval of the contract documents.
- If this Project scope stays within mill and overlay, it does not count as replaced impervious surface. If the project results in 2,000 sf or more of replaced impervious surface with replaced subgrade, then a full drainage review is required and a technical memo will be completed per the 2011 Snoqualmie Addendum to the 2009 adopted King County Stormwater Design Manual. A stormwater evaluation and technical memo are not included in this scope of work.

C. KPG PSOMAS DELIVERABLES

Deliverables prepared by the Consultant are identified at the end of each work element.

D. CITY OF SNOQUALMIE PROVIDED ITEMS:

The City of Snoqualmie will provide / prepare the following:

- Traffic Counts, or other existing information available
- Any adjacent development permits, plans, consultations, reports available through public records.
- Submittal reviews, comments, and approvals (one (1) compiled set per submittal)
- As-built plans, GIS maps, or other existing mapping available
- Boiler plate specifications (word format)

E. SCOPE OF WORK

WORK ELEMENT 1 – MANAGEMENT / COORDINATION / ADMINISTRATION

- 1.1. The Consultant will provide continuous project management for the project duration through the final design phase (estimate 8 months) and will prepare and update the project schedule using Microsoft Project (estimate 2 updates).
- 1.2. The Consultant will provide continuous management and administration of all subconsultants included in this scope of work.
- 1.3. The Consultant will set-up and facilitate monthly check-in meeting between KPG Psomas, City staff, and subconsultant using Microsoft Teams (estimate 8 meetings).
- 1.4. The Consultant will provide quality assurance / quality control (QA/QC) reviews of all work products and ensure the project meets City guidelines prior to submittal for City review.

Work Element 1 Deliverables:

- *Monthly Progress Reports*

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- *Monthly Invoices*
- *Critical Path Project Schedule (Anticipated Ad Feb 2023) (Electronic PDF)*

WORK ELEMENT 2 – SURVEY AND BASE MAPPING

2.1. The Consultant will provide mapping work to prepare 1"=20' topographic base map and digital terrain model (DTM) in AutoCAD Civil 3D format of the project within the limits described below. The survey will be oriented to horizontal and vertical datums of NAD83/2011 and NAVD88 respectively.

- The survey base mapping limits shall include ADA facilities within the signal and non-signalized intersections from the curb radius returns along existing curb to the back of sidewalk or facility to capture all existing and proposed ADA modifications and documentation. Mapping shall extend up to 50 feet past each existing facility within sidewalk or shoulder to ensure drainage concerns and tie-ins are properly addressed. The existing vehicle lane widths and channelization configuration, utility castings in overlay limits, and loops and junction boxes for loops shall be incorporated using GIS data and field measurement verification.
- The Following items shall be mapped during field survey:
 - Curbs, edge of pavement and flow line
 - Face of walk and back of walk
 - Curb ramps
 - Utility castings in sidewalk and ramps
 - Driveways, stairs, bus shelters, utility poles, and other visible features in sidewalk and radius returns
 - Signal poles and cross arms, push button and pedestals
 - Trees (greater than 8" DBH) within the limits of work
 - Utility locates shall be mapped – per private utility locate consultant from curb to back of walk
- The Intersections to be survey mapped include:
 - SE Jacobia St / Snoqualmie Parkway (Signalized) – 8 ramps
 - SE Swenson Dr / Snoqualmie Parkway (Signalized) – 8 ramps
 - SE Douglas St/Douglas Ave SE / Snoqualmie Parkway (Signalized) – 8 ramps
 - SE Center St/Center Blvd SE / Snoqualmie Parkway (Signalized) – 8 ramps
 - Fairway Ave SE / Snoqualmie Parkway (Signalized) – 4 ramps
 - Fisher Ave SE / Snoqualmie Parkway (Non-Signalized) – 8 ramps
 - Orchard Ave SE / Snoqualmie Parkway (Non-Signalized) – 3 ramps
 - Allman Ave SE / Snoqualmie Parkway (Non-Signalized) – 4 ramps
 - Better Way SE / Snoqualmie Parkway (Signalized) – 8 ramps
 - Railroad Ave/SR202 / Snoqualmie Parkway – NW and SW curb returns only. (Signalized) - (3 ramps outside limits)

- One-foot contours generated from the DTM.

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Work Element 2 Deliverables:

- *Electronic basemap in KPG AutoCAD Civil 3D 2022 format*

WORK ELEMENT 3 – PRELIMINARY OVERLAY DESIGN

- 3.1. The Consultant shall prepare Project Prospectus documentation required per the Lag Manual Chapter 21. City will submit documentation and coordinate with WSDOT Local Programs.
- 3.2. The Consultant will perform a background review of all existing information along the corridor including but not limited to, traffic counts, adjacent parcel development plans, and record drawings of Snoqualmie Parkway. Existing information will be incorporated into Plans and work approach, as feasible.
- 3.3. Field verify pavement rehabilitation grind and overlay limits and potential pavement repair areas, lane widths and scope with City Staff. (assume 1 visit to document pavement grind and overlay limits, castings, and channelization review and 1 visit for traffic loops review to create base maps from GIS and Aerials)
- 3.4. Prepare 60% Plans, Specifications, and Engineer's Cost Estimate for **Overlay Design**. The 60% Plans will be formatted to provide sufficient detail for convenient field layout of all proposed improvements and will set the horizontal project envelope baseline. The project basemap will be produced from GIS, Aerials, and site visit inspection and measurements. City Standard Details and WSDOT Standard Plans will supplement the project specific details as required. Plans will include:
 - Title and Index sheet with a vicinity map (1 sheet)
 - Legends, Abbreviations, Survey Control and General Notes (4 sheets)
 - Typical Sections and Details (2 sheets)
 - Temporary Erosion and Sediment Control (TESC) Plan & Details (2 sheets)
 - Roadway, Loops, and Channelization Plans (15 sheets) – 40 scale
 - Signal Loop Details (Loop replacements) (2 sheets)
 - Temporary Traffic Control Plans (6 sheets) – 40 scale

32 Total Sheets

Assumptions:

- *Aerial, GIS, and Field visit measurements are adequate to layout the overlay limits and does not require survey basemapping and vertical datum values.*
- *Survey basemapping in Work Element 2 will be used for any ADA and intersection modifications.*

Work Element 3 Deliverables:

- *60% Submittal: Half-size (11"x17") Plans, Specifications, and Engineer's Construction Cost estimate (Electronic PDF)*
- *Project Prospectus per Lag Manual Ch 21*

WORK ELEMENT 4 – ENVIRONMENTAL PERMITTING

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- 4.1. The Consultant and their subconsultant ESA will provide support, exhibits, and coordination efforts to prepare cultural resources review and define the proposed Area of Potential Effects (APE). ESA will also prepare and Inadvertent Discovery Plan (IDP) that will address the procedures if cultural resources are disturbed during project construction.
- The Cultural Resources Literature Review will document the existing conditions and potential for Historic Properties (i.e., NRHP-eligible archaeological sites, historic buildings/structures, and Traditional Cultural Properties) within the proposed APE, incorporate results of background archival research, and provide recommendations regarding further cultural resources that may be required for compliance with state and federal law.
 - The Cultural Resources Literature Review and IDP will be included as part of the SEPA submittal in addition to submittal to the Washington State Department of Archaeology and Historic Preservation (DAHP).

Assumptions:

- *Delineation of wetland or stream features is not included in this scope.*
- *Surveys for fish, wildlife, or rare plants are not included in this scope.*
- *The project will not result in impacts to the critical areas and therefore no mitigation will be required.*
- *There will be no ROW take or expansion of the roadway and no modification of riparian vegetation.*
- *The project will not increase pollution generating impervious surfaces or modify the stormwater treatment system.*
- *No archaeological site/isolate forms, or Historic Property Inventory Forms will be needed or prepared and is not part of this scope. The APE will not include any buildings or structures that are already or will be 45 years or older at the time of project construction. If ESA determines that historic buildings or structures are present within the APE, an amendment will be required to document and record the buildings/structures on Historic Property Inventory Forms.*
- *Unless otherwise stated, the SEPA lead agency (City) will provide coordination with DAHP for project set up in the WISAARD system.*
- *Floodplain analysis will not be required as the project will not generate additional fill within the floodplain boundary.*
- *The project is exempt from the City's Critical Area review per Municipal Code Section 19.12.040 (5).*
- *The project is exempt from the City's Shoreline requirements per Chapter 19.08.65(A), This section references RCWs 90.58.355 (3) and 90.58.356(1a) which exempt transportation maintenance projects. A development permit or variance will not be required.*
- *This project will be categorized as maintenance and therefore be exempt from minimum requirements for drainage according to the City's Stormwater Program.*

Work Element 4 Deliverables:

- *Cultural Resources Literature Review and APE Correspondence, Draft and Final (electronic PDF)*

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- *Inadvertent Discovery Plan, Draft and Final (electronic PDF)*
- *On behalf of the SEPA lead agency (City), ESA can upload the Final Cultural Resources Literature Review and Inadvertent Discovery Plan to DAHP's WISAARD platform.*

WORK ELEMENT 5 – FINAL OVERLAY DESIGN

- 5.1. The Consultant will prepare 100% (Draft Bid) Plans, Specifications and Estimate for the **Overlay Design**. The 100% Plans will incorporate comments from the City and WSDOT 60% Submittal review. Plans will be formatted to provide sufficient detail for convenient field layout of all proposed facilities. City Standard Details and WSDOT Standard Plans will be supplemented with specific details as required. Plan information will include:

- Title and Index sheet with a vicinity map (1 sheet)
- Legends, Abbreviations, Survey Control and General Notes (4 sheets)
- Typical Sections and Details (2 sheets)
- Temporary Erosion and Sediment Control (TESC) Plan & Details (2 sheets)
- Roadway, Loops, and Channelization Plans (15 sheets) – 40 scale
- Signal Loop Details (Loop replacements) (2 sheets)
- Temporary Traffic Control Plans (6 sheets) – 40 scale

32 Total Sheets

- 5.2. The Consultant will prepare a WSDOT Traffic Control Plan (TCP) at 60% Submittal for the SR-202 and Snoqualmie Parkway intersection. (2 sheets – 20 scale)
- 5.3. The Consultant will prepare Contract Documents for Bid and upload to BXWA on behalf of the City.

Assumptions:

- *The existing roadway profile and cross section will not be modified; no profile elevation sheets will be provided.*
- *Vehicle Signal modifications will be limited to loop replacement. City and King County will coordinate traffic signals on regulated timers for Construction duration.*
- *Traffic Control and Channelization Plans that adhere to WSDOT Checklist Requirements for entire project limits will not be required and is not part of this scope besides the specific traffic control plan location described in Work Element 5.2. The City will submit Work Element 5.2 deliverable and coordinate with WSDOT for documentation review and acceptance.*

Work Element 5 Deliverables:

- *100% (Draft Bid) Check Set Submittal: Half-size (11"x17") Plans, Specifications, and Engineer's Construction Cost estimate (Electronic PDF)*
- *Contract Bid Documents: Half-size (11"x17") Plans, Specifications, and Engineer's Construction Cost estimate (Electronic PDF) and uploaded to BXWA*

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- *Traffic Control Plan (11"x17") 20 scale that meets WSDOT TCP Standard for the intersection of SR-202 and Snoqualmie Parkway (Electronic PDF)*

WORK ELEMENT 6 – ADA DESIGN

- 6.1. The Consultant will prepare an ADA assessment worksheet evaluating each existing curb ramp and crosswalk for slope, dimensional, and pedestrian push button (PPB) compliance. This evaluation will be based on the WSDOT 2012 ADA Fieldbook Guide using the WSDOT assessment worksheet.
- 6.2. Prepare 60% Plans, Specifications, and Cost Estimate for **ADA Design**. The 60% Plans will be formatted to provide sufficient detail for ADA improvement baseline. City Standard Details and WSDOT Standard Plans will supplement the project specific details as required. Intersections to be evaluated that may require ADA ramp and push button modifications are noted in Work Element 2.1. If the evaluated curb ramps are within ADA compliance, outside paving limits, or not feasible for modification to the maximum extent feasible, it will be documented.
- **Work Element 6.2 assumes that 50% or 27 of the 54 existing ramps identified will require replacement and the remaining ramps will be outside paving limits or are not feasible to replace within this project scope.**
 - **Work Element 6.2 assumes that 3 of the 7 signalized intersections identified in Work Element 2.1 will require all four crossing modifications to the existing pedestrian push buttons.**
- 6.3. The Consultant will prepare 100% (draft bid) Check Set Plans, Specifications, and Estimate for the ADA Design. The 100% Plans will incorporate comments from previous 60% submittal, as applicable. Plans will be formatted to provide sufficient detail for convenient field layout of all proposed facilities. City Standard Details and WSDOT Standard Plans will be supplemented with specific details as required. The number of ramps and pushbuttons to be replaced and included in this task is noted in Work Element 6.3. The Plan information will include:
- Intersection Plans and Details (27 curb ramps) (10 sheets) – 10 scale
 - Signal Modification Plan and Details (ADA pushbutton) (6 sheets) – 10 scale
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- 16 Total Sheets
- 6.4. The Consultant will prepare draft and final Maximum Extent Feasibility (MEF) documentation for ADA facilities that do not meet ADA guidelines that are within paving limits and project prospectus. Draft MEFs to be included at the 60% submittal review. Final MEFs will be included in the appendices of the Contract Document Specifications.

Assumptions:

- *Survey basemapping in Work Element 2 will be used for any ADA modifications.*

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- *Final Contract Document preparation package for ADA design is combined Work Element 5.4.*
- *Signal modifications will be limited to new pedestrian push buttons (PPBs), and pedestrian heads, as needed. City and King County will coordinate traffic signals on regulated timers for Construction duration.*
- *Proposed design will be limited to the roadway prism, back of curb to back of curb, and ADA curb ramp upgrades within signalized intersections. (no additional sidewalk or driveway upgrades will be included with this project).*
- *KC Metro bus stops are not included in scope for ADA compliant landings that are outside footprint of pushbutton and ADA ramp and landing.*

Work Element 6 Deliverables:

- *Curb ramp assessment worksheet (Electronic PDF)*
- *60% Submittal: Half-size (11"x17") Plans, Specifications, and Engineer's Construction Cost estimate (Electronic PDF)*
- *100% (Draft Bid) Check Set Submittal: Half-size (11"x17") Plans, Specifications, and Engineer's Construction Cost estimate (Electronic PDF)*
- *MEF documentation per City forms, Draft and Final (Electronic PDF)*

WORK ELEMENT 7 – BID PHASE SERVICES AND SUPPORT

- 7.1. Consultant will assist the City Project Manager in advertisement of the contract documents.
- 7.2. Consultant will prepare addenda and respond to bidders questions relayed through the City. It is assumed that the Consultant will prepare up to two (2) addenda.
- 7.3. The Consultant will prepare Conformed Documents (to include all Project Addenda) for the City to be provided to the Contractor.

Work Element 7 Deliverables:

- *Prepare responses for up to (5) bidder questions (incl. with Addenda)*
- *Prepare up to two (2) Addendum Packages.*
- *Prepare Bid Tabulation and evaluation*
- *Conformed Documents: (5) hard copies of half-size (11x17) and Specifications, and (1) full-size (22x34) Bid Plans.*

MANAGEMENT RESERVE

Included in this Contract's Management Reserve is:

- *Coordination with WSDOT for jurisdiction changes of the project limits between City of Snoqualmie and WSDOT.*
- *Coordination with King County if loop replacement is revised to include temporary and/or permanent video detection at signalized intersections.*
- *Any additional ADA ramp or pedestrian push button replacements outside the limit assumed in Work Element 6.*
- *Any additional services requested from the City.*

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The above work activities will require written authorization from City to access management reserve funds.

ADDITIONAL SERVICES

The City may require additional services of the Consultant in order to advance the project through final design and construction. This work may include items identified in the current task authorizations as well other items, which may include, but are not necessarily limited to the following:

- Additional survey.
- Geotechnical reconnaissance and investigation for pavement section considerations.
- Additional design for sidewalk, stormwater, traffic signal and illumination evaluation and design, and additional documentation for WSDOT Intersection Control Evaluation.
- Construction management and inspection services.
- Record Drawings at construction closeout.
- Any additional services requested from the City.

These services will be authorized under a future contract supplement if necessary. At the time these services are required, the Consultant shall provide a detailed scope of work and an estimate of costs. The Consultant shall not proceed with the work until the City has authorized the work and issued a notice to proceed.