

**CITY COUNCIL AGENDA ITEM**  
CITY OF SHORELINE, WASHINGTON

<b>AGENDA TITLE:</b>	Authorize the City Manager to Execute an Amendment to the Professional Services Agreement with Perteet, Inc. in the Amount of \$1,591,698 for 60% Design of the 175 <sup>th</sup> Street (Stone to I-5) Project
<b>DEPARTMENT:</b>	Public Works
<b>PRESENTED BY:</b>	Tricia Juhnke, City Engineer
<b>ACTION:</b>	<input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Discussion <input type="checkbox"/> Public Hearing

**PROBLEM/ISSUE STATEMENT:**

The 2021-2026 Capital Improvement Plan identifies a project along N 175<sup>th</sup> Street from Stone Avenue N to Interstate 5. The project will maintain levels of service and promote safety by widening the roadway, constructing multi-modal improvements along the full length of the corridor, revising roadway channelization, and providing intersection improvements at N 175<sup>th</sup> Street and Meridian Avenue N.

The City's initial design services contract No. 9175 with Perteet Inc. provides scope for development of design to the 30% level. The 30% design milestone was achieved in summer 2021. The contract must be amended to provide additional scope to progress design to the 60% level and begin the right-of-way phase of the project.

Staff is requesting that City Council authorize the City Manager to execute Amendment No. 3 to Contract No. 9175 with Perteet Inc. to continue with design, environmental and right-of-way services related to the 175<sup>th</sup> Street (Stone to I-5) Project. The amendment will provide additional scope and funding for the City's agreement with Perteet. The proposed scope of work for this Amendment is attached to this staff report as Attachment A.

**RESOURCE/FINANCIAL IMPACT:**

The 2021-2026 Capital Improvement Program includes the summary of funding for the project:

## EXPENDITURES

### Design

Staff and Other Direct Expenses	\$533,000.00
Preliminary Design Contract - Perteeet No. 9175	\$1,483,824.00
Perteeet No. 9175.01	\$314,007.00
Perteeet No. 9175.02	\$0
<b>Perteeet No. 9175.03 – This amendment</b>	<b>\$1,591,698.00</b>
Final Design Contract	\$1,400,000.00

**Right of Way** \$6,000,000.00

**Construction** \$41,300,000.00 - \$51,000,000.00

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**TOTAL** **\$52,622,529.00 - \$62,322,529.00**

## REVENUE

### Design

WSDOT Surface Transportation Program	\$3,546,500.00
Transportation Impact Fees	\$6,076,498.96
Future Funds	\$42,999,530.04 - \$52,699,530.04

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**TOTAL** **\$52,622,529.00 - \$62,322,529.00**

*Note: Project expenditures and revenue are shown in 2021 dollars. Construction costs included in the financial table are presented in ranges. The low end of the range excludes utility undergrounding while the upper end of the range includes full utility undergrounding of the corridor. Staff will request guidance from the City Council on utility underground at a later date. The project design phase is fully funded by a federal Surface Transportation Program (STP) grant and the City's transportation impact fee (TIF) revenue. The STP grant provides 86.5% of the total cost, with TIF funding providing the required 13.5% match to STP funds. This amendment fits within the project budget for the design phase. Right-of-way costs are expected to be funded with TIF funds as well, while the construction phase is unfunded. TIF funds are also available to provide match for grants.*

## RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute Amendment No. 3 to Perteeet, Inc's professional services contract in the amount of \$1,591,698.00 for a total contract amount of \$3,389,529.00 for engineering design, right-of-way and environmental permitting services for progressing design from 30% to 60% for the 175<sup>th</sup> Street (Stone to I-5) Project.

Approved By: City Manager **DT** City Attorney **MK**

## **BACKGROUND**

The N 175<sup>th</sup> Street project, from Stone Avenue N to Interstate 5 (see Attachment B, Project Vicinity Map) is intended to support growth and promote safety by widening the roadway, constructing multi-modal improvements along the full length of the corridor, revising traffic channelization, and providing intersection improvements at N 175<sup>th</sup> Street and Meridian Avenue N. This project is also designated as one of seven growth projects in the City's Transportation Master Plan and is eligible to utilize transportation impact fees (TIF) for the required local funding match against the federal Surface Transportation Program (STP) grant funds.

The N 175<sup>th</sup> Street Project will provide mobility and safety improvements to pedestrians, cyclists and drivers using this corridor. Planned improvements include reconstruction of the existing street to provide two traffic lanes in each direction; medians and turn pockets; bicycle lanes; a shared-use path; curb, gutter, and sidewalk with planter strip where feasible; illumination; landscaping; and retaining walls.

### **Prior City Council Actions**

On June 4, 2018, the City Council authorized the City to enter into an agreement with the Washington State Department of Transportation (WSDOT) to accept \$3,456,500 in federal STP grant funds for the design of this project. The staff report for this Council action can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2018/staffreport060418-7d.pdf>.

On January 28, 2019, Council authorized the City Manager to enter into an agreement (contract No. 9175) for engineering consultant services with Perteet, Inc. for analysis, design, assistance in community outreach and stakeholder engagement, preparation of cost estimates, and identification and procurement of right-of-way. The staff report for this Council action can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staffreport012819-7d.pdf>.

On July 13, 2020, staff presented a project update to the City Council which include a summary of the initial phase of project public outreach (Phase 1 Public Outreach) and presentation of the draft design concepts. The staff report for this Council presentation can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2020/staffreport071320-9b.pdf>.

On February 1, 2021, staff presented the preferred design concept for the corridor to the City Council, which the Council approved. Staff also requested guidance from the City Council for the inclusion of utility undergrounding along the corridor. The Council directed staff to develop design for utility undergrounding to the 30% design level. Once 30% design is complete, staff will provide more accurate cost data for undergrounding and more refined data for how undergrounding may impact construction phasing and other project elements. Staff will provide more information about utility undergrounding at a later date. The February 1, 2021 staff report can be viewed at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2021/staffreport020121-8a.pdf>.

On April 5, 2021, Council authorized the City Manager to amend the design services contract (contract No. 9175) in the amount of \$314,007 for a total contract amount of \$1,797,831 for engineering design, right-of-way and environmental permitting services for 30% design development of the 175th Street (Stone to I-5) Project. The amendment provided additional scope required due to project delay, COVID-19, and utility undergrounding design. The April 5, 2021 staff report can be viewed at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2021/staffreport040521-7c.pdf>.

### **DISCUSSION**

The need for this amendment to the City's agreement with Perteet, Inc. is in step with the planned delivery strategy for the project. The original contract included progressing the design to the 30% level. This amendment is needed to proceed with design to 60%, complete the environmental review and documentation, and prepare for ROW acquisitions. A future amendment will be needed to progress to final design. The scope of work for this contract amendment can be found in Attachment A.

If Council does not authorize this amendment, the project will be placed on hold. If the project schedule is delayed, the City may risk losing federal STP grant revenue.

### **COUNCIL GOAL(S) ADDRESSED**

This project supports Council Goal 2: "Improve Shoreline's infrastructure to continue the delivery of highly-valued public service," and Council Goal 3: "Continue preparation for regional mass transit in Shoreline."

### **RESOURCE/FINANCIAL IMPACT**

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#### **EXPENDITURES**

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**REVENUE**

**Design**

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**RECOMMENDATION**

Staff recommends that Council authorize the City Manager to execute Amendment No. 3 to Perteet, Inc's professional services contract in the amount of \$1,591,698.00 for a total contract amount of \$3,389,529.00 for engineering design, right-of-way and environmental permitting services for progressing design from 30% to 60% for the 175<sup>th</sup> Street (Stone to I-5) Project.

**ATTACHMENTS**

- Attachment A – Perteet, Inc. Supplement #3 Scope of Services
- Attachment B – Project Vicinity Map

ATTACHMENT - A

**Supplement #3 Scope of Services**

175th Street – Stone Avenue to I-5 Improvement Project

August 2021

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City of Shoreline



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**EXHIBIT A****Supplement #3 – Scope of Services  
175th Street – Stone Avenue to I-5 Improvement Project  
City of Shoreline****INTRODUCTION**

Under the City of Shoreline’s 175th Street – Stone Avenue to I-5 Improvement Project, the City has requested the Consultant provide extra services which were not provided in the original Consultant’s Agreement. The Consultant will provide professional engineering services as detailed herein.

Extra services include additional coordination with the City, progressing the design of the project to a 60% level, additional franchise utility coordination, and the acquisition of four parcels. This phase of the project will be funded with a combination of federal (STP) and local funds.

The City of Shoreline Public Works Department proposes to improve the N 175th Street corridor between Stone Avenue N and I-5. To accommodate anticipated growth, improve pedestrian and cyclist accessibility and safety, and support future light rail stations, the City of Shoreline proposes to:

- Reconstruct the existing street to provide two traffic lanes in each direction with center medians
- Add bicycle facilities
- Add curb, gutter, sidewalk, and landscaped amenity zones
- Install retaining walls
- New signal at Meridian and two new pedestrian hybrid beacons
- Stormwater conveyance, detention, and water quality treatment
- Illumination

These improvements will require little change to the existing vertical and horizontal alignment of N 175th Street. Right-of-way will be acquired, including full and partial acquisitions and temporary construction easements. Environmental documentation and permitting will be in accordance to support NEPA and SEPA.

Consultant’s services will be limited to those expressly set forth herein. If the service is not specifically identified herein, it is expressly excluded. Consultant will have no other obligations, duties, or responsibilities associated with the project except as expressly provided in this Agreement.



Transferring Budget within Contract Maximum: The level of effort is specified in the scope of services. The budget may be transferred between discipline tasks at the discretion of the Consultant, provided that the total contracted amount is not exceeded. The Consultant will have the flexibility to manage budget within a given discipline on a subtask level.

## GENERAL SCOPE OF SERVICES

This scope of service provides extra services requested by the City. The following major tasks will be included and supplemented to the original Scope of Services and completed by the Consultant:

*(The task numbers below correspond to the original Scope of Services.)*

- Task 1 – Project Management – SUPPLEMENTED
- Task 2 – Community Engagement– SUPPLEMENTED
- Task 3 – Survey and Mapping – SUPPLEMENTED
- Task 4 – Geotechnical Investigations – SUPPLEMENTED
- Task 5 – Conceptual Design and Alternatives – COMPLETED
- Task 6 – Landscaping and Urban Design – SUPPLEMENTED
- Task 7 – Stormwater Design – SUPPLEMENTED
- Task 8 – Structural Engineering for Retaining Wall TS&L – SUPPLEMENTED
- Task 9 – Environmental Documentation and Coordination Support– SUPPLEMENTED
- Task 10 – Franchise Utility Design and Coordination – SUPPLEMENTED
- Task 11 – Right-of-Way Plans and Preliminary Costs – SUPPLEMENTED
- Task 12 – 30% Design and Design Memorandum – COMPLETED
- Task 13 – Concept Alternative Cost Estimates – COMPLETED
- Task 14 – Not Used
- Task 15 – Not Used
- Task 16 – Grant Application Preparation

NEW tasks added with this supplement:

- Task 17 – 60% Design and Design Report

With prior written approval by the City and written notice-to-proceed, work elements described in this scope of services as optional services (as directed) may be produced by the Consultant.

- D1 – Grant Application Preparation
- D2 – Sewer Main Design
- D3 – Wetland Buffer and Floodplain Mitigation Approach
- D4 – Additional Survey

This Scope of Services is defined in the tasks below.

## **SCOPE OF SERVICES DEFINED**

## **Task 1 – Project Management**

The assumed duration for the work defined in this supplemental scope of services is nine (9) months. Consultant will provide additional project management services related to this project.

Additional project management services include:

### **1.1 Coordination with City of Shoreline**

The Consultant will continue to coordinate with the City of Shoreline on a regular to basis to keep the City's project manager informed about project status of the additional services. Regular communication with the City will occur on a weekly basis, including meeting agendas and meeting minutes via OneNote.

The Consultant will attend bi-weekly one-hour online meetings. These meetings held under this work element will include the following participation by the Consultant team:

- Up to eighteen (18) additional meetings attended by the Consultants with up to three (3) staff from the Consultant team.
- Subconsultant attendance at meetings related to design work will be included under those individual design tasks.

### **1.2 Project Schedule, Budget, and Team Management**

The Consultant will update the project schedule monthly, up to nine (9) additional times, depending on the direction of the project. Under this task, the Consultant will continue to manage the Consultant budgets, monitor staff and subconsultant, manage change and prepare amendments, and monitor work progress under this subtask.

### **1.3 Progress Reports, Invoices, Underutilized Disadvantaged Business Enterprise (UDBE) Reporting**

The Consultant will prepare additional monthly progress reports for the extension of time.

Deliverables:

- Project schedule (Microsoft Project format) and up to nine (9) additional updates
- Project meeting agendas and notes/action items for up to eighteen (18) additional meetings
- Nine (9) additional monthly invoices and progress reports
- UDBE status report

## **Task 2 – Community Engagement**

The need for extra services has been identified as the project design is progressing.

## **2.6 Webpage Updates (*New Subtask*) (Perteet)**

Perteet will assist the City in providing webpage updates for the project webpage. Content could include text as well as supporting graphics.

Assumptions:

- Project webpage hosted on the City's website.
- Up to five (5) updates will be made as applicable through completion of the 60% design.

Deliverables:

- Review and provide up to five (5) updates

## **Task 3 – Survey and Mapping (1 Alliance)**

The need for additional survey data has been identified as the project design has progressed as shown in Exhibit A.

### **3.1 Survey PM, Admin, QA/QC**

This task includes extended survey project management, administrative duties, and quality control for additional survey.

### **3.2 Survey Control**

This task includes the recovery of previous survey control for use in this supplemental surveying effort.

### **3.3 Field Surveying and Mapping**

The Consultant shall locate and map visible features necessary for the creation of an updated engineering design basemap within and, in places, beyond the right-of-way as shown in Exhibit A.

Assumptions:

- The budget assigned for this work element shall not exceed the amount designated for this work element.

### **3.4 Utility Surveying and Pothole Surveying Services**

This task includes the additional mapping of utilities, the surveying of approximately 20 potholes (completed in Task 10), the arrangement for additional underground 'conductive' utility locating by a third-party utility locate service, as identified in Exhibit A.

### **3.5 Office Processing**

This task includes the office processing of the collected survey data, data extraction, field book note reductions, CADD drafting, and other duties required for the generation of the deliverable(s) for the additional survey as identified in Exhibit A.

## **Task 4 – Geotechnical Investigations (HWA)**

Geotechnical engineering will be completed in support of advancing the design from 30% to 60%. This will include the exploration and evaluation associated with subgrade stabilization near Ronald Bog. The level of efforts assumes excavation and replacement of unstable soils with lightweight cellular concrete (LWCC) in the vicinity of Ronald Bog. Work will include completing excavations within the vicinity of Ronald Bog to assess the thicknesses of peat material in the area of the proposed improvements, providing estimates of the extent of excavation required, recommendations, and guidance regarding costs associated with use of LWCC, and design specifications associated with the use of LWCC.

### **4.1 Geotechnical Project Setup**

HWA will initiate the new task and set up billing information in support of invoicing throughout the project management.

### **4.2 Geotechnical Exploration Program**

- **Plan the Geotechnical Field Exploration Program:** HWA will plan and coordinate the geotechnical exploration program for the project. The exploration program will consist of completing a series of Cone Penetration Tests (CPTs) and Limited Access Borings (LABs).
- **Conduct Utility Locates:** HWA will mark the proposed exploration locations and arrange for utility locates using the Utility Notification Center. HWA will make additional site visits to verify that the proposed locations of the borings are clear of utilities prior to finalizing the exploration plans and mobilizing the equipment. HWA will also utilize private utility locates on the day of drilling to further assure the clearance of the subgrade from buried public or private utilities.
- **Develop Traffic Control Plans for Geotechnical Explorations:** HWA will coordinate with the City and design team and develop site specific traffic control plans for each proposed geotechnical exploration.
- **Generate Geotechnical Exploration Work Plan Memo:** HWA will prepare a Geotechnical Work Plan Memoranda for the proposed exploration program. The work plan will be submitted to the design team and the City for review and approval. The work plan will detail the type, location, and extent of proposed field explorations along with logistics necessary to perform the work such as traffic control plans and staging areas. The work plans will also be used for utility locating clearances and for permitting that may be

necessary to access the exploration locations. We assume the City or Perteet will provide any required permits or rights of entry at no cost to HWA.

- **Conduct Geotechnical Explorations – CPTs (assume four [4] nights):** HWA proposes to advance four (4) nights of truck-mounted cone penetration tests (CPTs) within the vicinity of Ronald Bog to assess the thicknesses and extent of peat material in the area of the proposed improvements. The purpose of these borings is to determine the extent of the underlying peat material; as a result, the number of the CPTs will be dependent on the encountered extent at the time of our explorations. HWA will complete as many CPTs as deemed necessary within the allotted four (4) proposed work nights.

Given anticipated utility obstructions, we anticipate that the CPT locations will have to be shifted to miss utilities and will require a single-lane closures. CPTs will be completed in the eastbound and westbound directions along N 175th Street and the northbound and southbound directions of Meridian Avenue. CPTs will be spaced approximately 75 feet apart in the outer travel lane. The explorations will be abandoned in accordance with Ecology requirements to the base of pavement section. When used, bentonite will be pre-wet to reduce expansion. Pavement cores, at each CPT, will be patched with rapid set concrete. Work will be completed during the night to limit the impact on traffic at the project intersection.

A geotechnical engineer or a geologist from HWA will log each exploration and record all pertinent information including pavement type and depth, sample depths, stratigraphy, soil engineering characteristics, pavement type, pavement thickness, and groundwater occurrence at the time of drilling. It is important to note that the ground water encountered at the time of the CPTs could be substantially different from the actual groundwater elevations.

- **Clear Vegetation for Limited Access Borings (assume one [1] day):** HWA will clear paths in the vegetation between the project intersection and Ronald Bog in order to allow access and adequate workspace to complete the proposed limited access geotechnical explorations. Vegetation will be cleared with brush trimmers and will be limited to near surface brush. No large trees will be removed.
- **Conduct Limited Access Geotechnical Explorations (assume [1] day):** HWA proposes to advance two (2) machine-drilled limited access borings (LABs), designated LAB-1 and LAB-2, towards the shore of Ronald Bog to assess the thicknesses of peat material in the area of the proposed improvements. Each proposed exploration will be drilled with a limited access Acker drill rig outside of the travel lanes. The explorations will be abandoned in accordance with Ecology requirements.

A geotechnical engineer or a geologist from HWA will log each exploration and record all pertinent information including pavement type and depth, sample depths, stratigraphy, soil engineering characteristics, pavement type, pavement thickness, and groundwater occurrence at the time of drilling. It is important to note that the groundwater encountered at the time of drilling could be substantially different from the actual groundwater elevations.

- **Generate Boring Logs and Assign Laboratory Testing:** HWA will prepare summary



boring logs and perform laboratory testing to evaluate relevant physical properties of the site soils. Laboratory testing will include moisture content, unit weight, hydrometers, grain-size distribution, and organic content.

### 4.3 Geotechnical Engineering Design Services

- **Evaluate Field and Laboratory Data:** Based on the CPTs, borings, and the laboratory test results, HWA will generate estimates of the soil strength and other properties needed to evaluate the effects the subsurface conditions will have on the proposed improvements.
- **Develop Geologic Cross-Sections:** HWA will construct geologic cross-sections, as needed, to assist with design of the lightweight cellular concrete in the vicinity of Ronald Bog. These cross-sections will show near surface soil conditions and will be provided in a geotechnical report.
- **Evaluate Liquefaction Potential:** HWA will evaluate the susceptibility of the subsurface soils to liquefaction at the location of the new geotechnical borings and CPTs, to assess the potential impacts to the proposed improvements.
- **Develop Final Design Level Retaining Wall Recommendations:** HWA will provide final design recommendations for retaining structures along the project alignment.
- **Develop Final Design Level Compressible Soils Mitigation Recommendations:** HWA will evaluate the results of the supplementary explorations and develop geotechnical design recommendations for the use of light weight cellular concrete to mitigate settlements in the vicinity of Ronald Bog. The recommendations will include geometry, material type and constructability.
- **Develop Lightweight Cellular Concrete Specifications:** HWA will develop light weight cellular concrete specification for use in the project specifications.
- **HWA QA/QC:** All design calculations and recommendations will be reviewed by a senior principal prior to distribution to the design team or the City of Shoreline. A geotechnical report will be prepared by a certified soils scientist, professional engineer, geologist, or hydrogeologist licensed in the State of Washington.
- **Project Coordination Meetings (assume 12 meetings):** HWA will attend up to twelve (12) meetings with the City of Shoreline and the design team. HWA assumes that this meeting will take place virtually.
- **Revise Draft Geotechnical Engineering Report:** HWA will revise our draft geotechnical report for the project. This report will contain the results of the explorations and analyses performed to date, including descriptions of surface and subsurface conditions; a site plan showing exploration locations and other pertinent features; summary coring and boring logs; and laboratory test results. The report will provide geotechnical recommendations for each of the proposed improvements. HWA's revised report will also provide updated recommendations associated with use of LWCC based on additional exploration completed.

### 4.4 Geoenvironmental Support (*New Subtask*)

HWA will provide up to 20 hours of miscellaneous geoenvironmental support for the project as it advances to 60 percent design.

#### 4.5 Conduct Plan and Specification Review (*New Subtask*)

HWA will conduct a 60% plan, specification, and opinion of cost review to evaluate that the geotechnical aspects of the project have been incorporated into the project plans.

#### 4.6 HWA Project Management (*New Subtask*)

**Invoice Generation and Processing:** HWA will prepare monthly invoices, and progress reports for the duration of the design phase of the project.

**Geotechnical Task Management:** HWA will provide geotechnical task management to all geotechnical related aspects of the project. HWA will correspond with the City and the design team in the form of emails, fax, and telephone calls, as necessary.

Assumptions:

- All pavement cores to facilitate CPTs, conducted through the roadway will be patched with rapid set concrete . No saw cuts and hot mix asphalt patches will be required.
- The final geotechnical report will be generated in a future phase of the project, as the project approaches 100 percent design.
- HWA assumes that the compressible soil mitigation method will include the use of lightweight cellular concrete.
- The subsurface explorations will not be used to assess site environmental conditions. However, visual and/or olfactory observations regarding potential contamination will be noted. Analysis, testing, storage, and handling of potentially contaminated soil and groundwater (either sampled or spoils from drilling) are beyond this scope of services. If contaminated soils and/or groundwater are encountered, the material will be properly contained on-site for disposal as mutually agreed upon without additional cost to HWA.
- All non-contaminated drilling spoils and related debris will be drummed on site and transported off site for disposal by the drilling subcontractor.
- All required rights-of-way and street use permits will be prepared by the Consultant and permitted by the City at no cost.
- The borehole and CPT locations will be surveyed by others.
- Soil samples will be collected from the borings using the Standard Penetration Test (SPT) at intervals of 2.5 feet to a depth of 20 feet and at intervals of five feet to the depth of termination, if necessary, for the LABs. No soil samples will be collected for the CPTs.
- CPTs will be completed during nighttime work hours. Anticipated work hours will be from 10PM to 6AM. LABs will be completed during daylight weekday work hours.

Anticipated work hours will be from 8AM to 5PM. The Consultant will prepare and provide noise variance documentation to the City for approval.

- Geotechnical explorations will not require WSDOT approval.

Deliverables:

- Exploration Plan
- Traffic Control Plan
- Revised Draft Geotechnical Engineering Report

## **Task 6 – Landscaping and Urban Design (HBB)**

### **6.5 60% Design (New Subtask)**

Develop 60% construction documents for planting, irrigation, and the urban design elements.

#### **6.5.1 Coordination**

Assumptions:

- Up to four (4) meetings with City of Shoreline
- Up to sixteen (16) design team coordination meetings
- Up to two (2) art coordination meetings
- Up to two (2) design workshops to discuss results of phase 3 public engagement and determine final concepts for urban design including gateway sign

Deliverables:

- Meeting notes

#### **6.5.2 Planting, Irrigation, and Urban Design Plans**

Planting Plans, Irrigation, and Urban Design plans will include:

- Planting plans and photo cut sheets for street trees, shrubs, and groundcover options. Planting design to meet City of Shoreline Standards.
- Irrigation design to meet City of Shoreline standards. Irrigation design limited to irrigation point of connection and irrigation schedule and details.
- Urban design plans, enlargements and details for gateway sign, permeable paving, freestanding wall in medians, structural soil cells, railings, and site furnishings. Site furnishings include benches, recycle/litter receptacles, bike racks, tree grates, as applicable. Gateway sign limited to layout plan, elevation, and sections. Grading, lighting, and sign details not included in this submittal.
- Urban design recommendations for retaining wall finishes, pedestrian lighting, art locations, bioretention hardscape, railing, and paving. Recommendations will be

provided in cut sheets or sketch drawn format. Paving recommendations at intersections and crosswalks will be provided in CAD format.

**Assumptions:**

- Landscape design for four (4) acquisition parcels limited to erosion control hydroseed.
- Back of sidewalk landscape restoration limited to bark mulch or seed.
- Detailed planting and restoration for private property is not include in 60% submittal.
- Off-street multi-use sidewalk and bike path per City standards detail.

**Deliverables:**

- Planting plans (1" = 20' full size – 11 sheets)
- Planting schedule, details, and notes (2 sheets)
- Plant material cut sheets
- Irrigation plans (1" = 20' full size – 11 sheets)
- Irrigation schedule, details, and notes (1 sheet)
- Urban design plans (1" = 20' full size – 4 sheets)
- Urban design schedule, typical paving enlargements, details, and notes (2 sheets)
- Urban design material memo (update 30% urban design memo)
- Develop urban design CAD file for paving pattern layout at intersections and crosswalks. CAD file will be provided to Perteet for inclusion into paving plans.

### **6.5.3 Opinion of Cost**

Prepare landscape, irrigation, and urban design opinion of cost. The engineer's opinion of cost will include the cost of new service connections including permitting and connection fees from SPU, where required.

### **6.5.4 Specifications**

Prepare special provision specifications for planting, irrigation, and urban design.

### **6.5.5 QA/QC Review**

Interdisciplinary review and QA/QC review performed by licensed senior staff person.

### **6.5.6 Artist Selection**

Assist City with the advertising and selecting an artist for project. Identify possible art locations within median, gateway sign and/or railing locations and develop Scope of Services for artist selection.

### 6.5.7 Arborist Report

Building upon the tree survey completed in the prior phase of work, the Consultant will review existing trees that will be impacted by construction and provide recommendations for tree protection. Tree protection and tree removal mitigation calculations will be shown on civil site preparation plans. Work will include field tagging trees with identification numbers, identifying tree species with common and botanical names, identifying tree size DBH, analyzing tree health per International Society of Arborist standards, and providing tree protection recommendations.

Deliverables:

- Arborist Report including tree assessment site plans, tree assessment matrix, and tree protection guidelines

## Task 7 – Stormwater Design (WSP)

### 7.4 60% Stormwater Design (*New Subtask*)

Develop 60% construction documents for stormwater design elements.

Assumptions:

- 
- It is assumed that no drainage improvement work including outfalls or stormwater BMPs installations will occur within Ronald Bog Park.
- The 60% design work will be for a single City project similar in extent of the project footprint developed during 30% design work.
- 60% design work of stormwater management systems on newly acquired parcels that are either non-contiguous or outside of 30% project limits are outside of this scope of services (i.e., new parcels separate from the project limits or non-contiguous with the limits are assumed not to be considered).
- Modeling the Ronald Bog and its outlet system is not included. All analysis of the Ronald Bog water levels will be based upon existing documents and information (i.e., prior modeling by others). Should continuous hydrologic modeling of Ronald Bog be needed, it will be considered extra work.
- Assessing quantitative impacts of the project on downstream flows and water surface elevations is not included as part of this task. It is assumed that meeting the City's published flow control requirements for the project area is sufficient.
- No treatment, detention, or conveyance improvements are needed at the west end of the project in the Boeing Creek Basin.
- Scope of work and level of effort assumes no HPA (Hydraulic Project Approval) will be required for this project.

- It is assumed that providing stormwater treatment or detention beyond that required to mitigate for the project to meet City standards will not be considered.
- Structural design drawings associated with stormwater BMPs including detention vaults or retaining walls will be considered extra work.

### **7.4.1 Confirmation of BMP Options**

Following review of the updated survey and new geotechnical reports (including infiltration tests), subconsultant will review concept (30%) design and assess earlier project recommendations for both treatment, detention, and infiltration. Subconsultant will provide an analysis of previously identified options including pros, cons, and order of magnitude estimates based on updated survey materials, geotechnical information, and City comments on 30% design. Subconsultant will meet with City and present the information with a goal of selecting which BMPs to advance to 60% design. The assessment will be documented in a brief Drainage Design Confirmation Memo to capture the different City's stakeholder requirements and direction as well as project-specific permit requirements and environmental commitments related to stormwater management. The meeting will also discuss whether to attempt to treat any areas beyond the minimum required for the project.

Should the City want to consider a "stormwater park" to either meet project stormwater requirements or to provide treatment beyond those required for the project, this will be considered additional work and conducted under a supplement.

Deliverables:

- Drainage Design Confirmation Memo (up to 15 pages, including attachments)

### **7.4.2 60% Stormwater Design Plans, Specifications, and Cost Estimate**

Building upon the 30% design and the work of Task 7.4.1, subconsultant will advance the project plans, specifications, and cost estimate to a 60% level. The design, where applicable, will comply with City of Shoreline Engineering Design Manual – Division 3 Surface Water. Based on the 30% design, the design and related engineering effort is assumed to include the following:

- New inlets and conveyance piping
- Two (2) underground detention vaults
- One (1) treatment vault (Modular Wetland systems)
- Bioretention cells for on-site treatment

The subconsultant will update the inlet spacing analysis from the 30% design. It is assumed the roadway profile will not substantively change.

Deliverables:

- 60% Drainage Plan, Profiles, and Drainage Details (up to 27 sheets)
- Review and comment on the 60% TESC Plans and Details
- 60% project special provisions (submitted with Task 17.2)
- 60% opinion of cost (submitted with Task 17.3)

### **7.5 Surface Water Report (*New Subtask*)**

A draft Surface Water Report will be prepared for the project. The report will be prepared to be in compliance with the City's drainage design standards and surface water requirements as well as updating the previous report prepared in the 30% design phase. Supporting analysis such as conveyance sizing, inlet sizing, and BMP sizing will be included as attachments. The report will document the basis of selection and sizing for stormwater BMPs. A site visit will be performed to complete the qualitative downstream analysis. A preliminary draft report will be prepared for internal team review. Subconsultant will incorporate internal team comments and update the report and prepare a draft report for City review. Subconsultant will meet with the City to review the City comments on the report if needed.

Subconsultant will prepare a final report to address City comments.

Assumptions:

- This effort does not include quantitative off-site and downstream analysis.
- The Surface Water Report will not include a CSWPP/TEESC section.

Deliverables:

- Internal Draft Surface Water Report
- Draft Surface Water Report associated with the 60% design
- Revised Surface Water Report to include City comments

## **Task 8 – Structural Engineering for Retaining Wall TS&L (WSP)**

### **8.1 Wall Type Technical Reports**

For structural walls, the subconsultant shall prepare an updated Wall Type Technical Report in response to client review comments.

Deliverables:

- Final Wall Type Technical Report

### **8.2 Structural Solution for Compressible Soil Mitigation**

It has been determined that a lightweight cellular concrete will be used along portions of Meridian Avenue N and portions of N 175th Street in the vicinity of Ronald Bog as means of mitigating the compressible soils within the project limits. The structural team will coordinate with the geotechnical engineer on limits of compressible soils within the project corridor and will collaborate to advance the structural solution within these limits that can accommodate the compressible soils and adequately support the project elements. Work associated with this effort is limited to the associated budget for this task as shown in the attached budget sheet.

### **8.4 60% Submittal Retaining Wall Plans and Details (*New Subtask*)**



Develop 60% construction documents for wall design elements.

Assumptions:

- One (1) Wall may include a cantilevered sidewalk
- Wall Structural Pile Layout sheets shall describe the approximate number and length of piles for pile-supported walls.
- Wall Structural Detail Sheets and the supporting design shall be consistent with wall type to be used and will include details views without reinforcing sizes defined.
- Summary of quantities table, including wall face and pile quantities, shall be prepared and included in the Wall Structural Detail Sheets. Quantities shall be based on preliminary foundation design sizes.
- The total number of walls for this task is seventeen, and the assumed wall types are as follows:
  - Seven (7) Pile-supported
  - Seven (7) Gravity block
  - One (1) Structural earth wall
  - Two (2) Cast-in-place concrete cantilever on soldier pile (TBD)

Deliverables:

- 60% Wall Structural Pile Layout Sheet, and Wall Structural Details (up to 12 sheets) (submitted with Task 14.1 deliverables)
- 60% project special provisions (submitted with Task 14.2)
- 60% opinion of cost (submitted with Task 14.3)

## **Task 10 – Franchise Utility Design and Coordination (Perteet)**

### **10.2 Relocation Coordination, Design, PS&E**

#### **10.2.1 Franchise Utility Design Coordination**

This includes additional coordination to resolve utility conflicts by email and telephone regarding design questions, and coordination of items during the 60% design process. The Consultant will set up meeting times and locations, prepare meeting agendas, and prepare meeting minutes.

Assumptions:

- Franchise utilities will provide a record drawing to the Consultant.
- The Consultant will attend up to five (5) virtual meetings and will be attended by up to two (2) Consultant staff members per meeting, for design coordination.

**Deliverables:**

- Meeting Agenda for coordination meetings, submitted via email
- Meeting Minutes from coordination meetings, submitted via email in PDF format

**10.3 Conflict Identification and Potholing**

The Consultant will coordinate with the applicable utility franchises to perform potholing explorations during the 60% design phase. It is assumed that each utility franchise has an agreement with the City and will use a utility locate service or its own forces for potholing of their own facilities.

“Pre-pothole” and “post-pothole” meetings will be held for each round of potholing. In the “pre-pothole” meetings with vendors and franchises, expectations related to traffic control and restoration of pothole locations will be discussed. “Post-pothole” meetings will be held as necessary to discuss the findings of the potholes with the utility owners and discuss any design and/or relocations approaches that may be necessary as a result of the potholing findings.

**The work elements in this task include:**

- Coordinate and attend up to two (2) “pre-pothole” meetings with applicable utility franchises, utility locate service vendor and City staff as well as two (2) “post-pothole” meetings if needed, to discuss facility conflicts and relocations.
- Identifying potential utility conflicts and pothole locations based on the 30% plans (note: potholing will be accomplished by the utility franchises or designated utility locate service vendor)
- Manage pothole program on behalf of franchise utilities and City. The Consultant will identify potholing needs, on the utility conflicts spreadsheet, and also prepare an exhibit of potholing locations.
- Prepare and maintain the utility coordination log, utility conflict and potholing plans, utility conflict and resolution matrix, and distribution of potholing results to utilities. Utilize a utility potholing service for those locations that will not be provided by a franchise utility.

**Assumptions:**

- There will be up to 20 pothole locations.
- The budget assigned for this work element will be limited to the amount designated for this work element.

**Deliverables:**

- Meeting agendas and notes (four [4] potholing meetings)
- Utility conflict exhibits and resolution log
- Utility information updated according to pothole results at the 60% design phase

- Pothole location exhibits and results log

### **Task 11 – Right-of-Way Plans and Preliminary Costs (UFS)**

Based on the preliminary preferred alignment design, feasibility studies, and discussions with Perteet and City staff, it is assumed the project will require the total fee acquisition of four (4) separate tax parcels of real property. The total fee acquisition parcels impacted and real property rights required from each are shown in Table A below.

This scope of work includes Administration, Ownership and Title Report Review(s), Appraisal and Appraisal Review, Acquisition Negotiations, Residential Relocation, and Right-of-Way Certification services for the full acquisition of four (4) parcels as described in the table below. Acquisition of remaining impacted parcels will be performed under a supplement.

**Table A. Parcel Impacts**

No.	Tax Parcel No.	Full Fee Simple	Relocation	Valuation Type (see Note 1)
1	0390100035	X	Residential	Appraisal and Review
2	0390100040	X	Residential	Appraisal and Review
3	3073500047	X	Residential	Appraisal and Review
4	3073500058	X	Residential	Appraisal and Review

**Assumptions:**

- City shall approve designation of the title/escrow company used for this project. The title/escrow company will bill the City directly for all services provided.
- City shall provide form approval, in electronic format, of all legal conveyance documents and relocation documents and forms prior to use (i.e., offer letters, purchase and sale agreements, escrow instructions, easements, deeds, leases, and permits).
- City shall review and approve of all determinations of value, established by the project appraisers, and provide written authorization prior to offers being made to property owners.
- The actual filing of condemnation and subsequent litigation are not included.
- Closing costs such as recording fees, escrow services, title insurance fees, title reports, transfer taxes, etc., penalty costs for pre-payments; costs of a pre-existing mortgage; the prorated share of real property taxes paid subsequent to vesting title to the City shall be paid by the City directly.
- Continued negotiation services during condemnation or work associated in preparing and/or obtaining possession and use agreements are not included.
- Additional appraisal and appraisal review fees are not included.

**11.1 Parcel/Ownership Research**

Consultant shall review additional right-of-way and ownership information, review special exceptions described in each title report to determine the City's acceptance of title at closing, and provide the City with up to four (4) Title Review Summary Memos listing ownership, title exceptions, etc.

**Assumptions:**

- Consultant shall provide four (4) title reports for full acquisition parcels.

Deliverables:

- Up to four (4) Title Review Summary Memos

## 11.2 Right-of-Entry Agreements

Obtain additional right of entry permits (ROE) for the purpose of surveying, utility locates, geotechnical explorations, etc., from up to thirty-five (35) property owners. (Services provided by UFS to obtain the right of entries will be the same as identified in the original scope of services in task 11.2.)

Deliverables:

- Thirty-five (35) signed ROE permits

## 11.5 Preliminary Right-of-Way Acquisition Cost Estimate

UFS has previously provided a Right-of-Way Funding Estimate (RWFE) for preliminary alignments and the Preferred Alignment. Upon completion of Right-of-Way Plans, UFS will update the RWFE if necessary and transmit the RWFE to the City for WSDOT review. All four of the impacted parcels will require narrative appraisal reports.

Deliverables:

- Updated Right-of-Way Funding Estimate (RWFE)

## 11.6 ROW Acquisition (*New Subtask*)

The City intends to use local funding for this phase. Authorization of FHWA funds for the right-of-way phase does not apply. Due to federal funding in the design phase of the project, all right-of-way acquisition will follow the uniform relocation act and is subject to WSDOT review.

### 11.6.1 Right-of-Way Exhibits (Perteet)

The development of informational exhibits to facilitate the acquisition of property for the project.

Assumptions:

- Right-of-Way Plans are not required to start or complete the acquisition of the full acquisition parcels and will be completed with a supplement after 60% design.
- Parcel exhibits will be prepared for appraisals, negotiations with property owners, and WSDOT review.
- The purpose of the parcel exhibits for the full acquisition parcels is to illustrate the need for the parcel to be a total fee acquisition
- Exhibits shall include aerial photo with proposed project improvements and may include driveway profiles if required.

Deliverables:

- Draft and final parcel exhibits for four (4) separate parcels submitted via email in PDF format

### **11.6.2 Legal Descriptions and Depictions (1 Alliance Geomatics)**

The Legal Descriptions and Depictions work element includes the efforts necessary to draft the depictions and write the legal descriptions required by the engineer for property takes and/or easements.

Assumptions:

- Title Reports will be provided by the City.
- One (1) draft and one (1) revised, final Right-of-Way Acquisition Legal Description and Depiction per parcel is anticipated.

Deliverables:

- Four (4) Draft and Final Right-of-Way Acquisition Legal Descriptions and Depictions

### **11.6.3 Relocation Plan (UFS)**

UFS will prepare a Relocation Plan per WSDOT and federal guidelines and transmit it to the City for WSDOT review and approval.

Deliverables:

- One (1) Relocation Plan

### **11.6.4 Appraisal and Appraisal Review (UFS)**

UFS will subcontract and manage the Appraisal and Appraisal Review process with appraisal firms previously qualified by WSDOT and certified by the State of Washington. The Appraisal reports will be prepared in accordance with the Uniform Standards of Professional Appraisal Practices, Washington State Department of Transportation (WSDOT) Local Agency Guidelines, current WSDOT Right of Way Manual (in particular, Chapters 4 and 5), and the URA. Appraisal content and related expenses for specialty studies of hazardous materials (ESA Phase 1, 2, or 3), etc. are excluded. It is assumed properties to be appraised are clean of hazardous materials.

It is assumed four (4) Appraisal and four (4) Appraisal Review reports will be required on this project.

Deliverables:

- Four (4) appraisal reports
- Four (4) appraisal review reports

### **11.6.5 Acquisition Negotiation**

Appraisals and Appraisal Reviews completed in Subtask 11.6.4 above will be submitted to the City for written approval establishing the amount of Just Compensation to the property owner. Upon written approval from the City, UFS will prepare the offer package(s) and promptly submit offer packages to the City for their presentation to WSDOT according to the City's approved policies and procedures. When approved, UFS will present offers to purchase all the required real property interests and negotiate in good faith to reach a settlement with each property owner(s). Offers will be presented in person when at all possible.

Acquire real property rights from four (4) separate tax parcels as shown in Table A above. Additional parcels or real property rights other than those shown in Table A will require an amendment to this Scope of Work and related Fee Estimate.

Negotiations will be conducted in accordance with statutory and regulatory requirements and will include coordination of administrative settlement approvals with the City; negotiate as necessary with lien holders; assist escrow in the closing process; prepare and maintain parcel files to include fair offer letters and acquisition documents; a standard diary form indicating all contacts with owner(s); and other items necessary for negotiations.

Negotiations shall not be deemed to have failed until at least three significant meaningful contacts have been made and documented with each owner and/or their representative through direct personal contacts. Out-of-area owner(s) will be contacted by telephone, email, and certified mail. If negotiations reach an impasse, UFS will provide the City with written notification. The filing and cost of condemnation proceedings shall be the responsibility of the City.

Deliverables:

- Acquisition Negotiation services with owners of up to four (4) separate tax parcels
- Completed parcel files, including necessary records of all Right-of-Way Acquisition services

#### **11.6.6 Relocation Assistance**

UFS will provide Occupancy Surveys of displaced persons; General Notice of Eligibility Letters to displacees; draft and provide City's relocation assistance brochure, if needed; research of residential comparable sales that include any special relocation needs identified in the Occupancy Surveys; coordinate commercial move bids and determine maximum commercial move entitlement for City's review and approval; prepare relocation eligibility notice to include an explanation of displacees' relocation entitlements and 90 day assurances; assist displacees in search of replacement site(s); provide listings of available sites; coordinate purchase/rent of replacement site(s) with real estate agents and escrow companies/landlords or property management companies; complete Decent Safe and Sanitary (DSS) inspections; determine recommendations for actual relocation entitlements and prepare Recommendations for City's



approval; coordinate move with commercial movers/displacees and monitor moves; confirm displacees have vacated the subject sites and all personal property has been removed; assist displacees in filing relocation claims; create and maintain necessary records to support audit of project; and provide a closing report of any outstanding relocation claims or issues.

Deliverables:

- Relocation/advisory services for four (4) displacees
- Four (4) completed relocation files

#### **11.6.7 Parcel Closeout – Escrow Closing**

As part of Task 11.6.4 above and upon securing required acquisition agreements, UFS will submit the necessary acquisition documents and closing instructions to the designated Title/Escrow Company. UFS will work with the title/escrow company in order to obtain release documentation from the encumbrance(s) of public record that are not acceptable to the City in order to provide clear title to the property being acquired, subject to the City's title clearing guidelines. The escrow company shall prepare and obtain the owner(s) signature on the necessary closing documents. UFS will coordinate signatures on closing documents for submittal to the City and payment(s) to the owner(s), and coordinate with the escrow/title company in filing documents with King County.

Deliverables:

- Deliver completed original Acquisition parcel files to the City

### 11.6.8 Preparation and Administration

Discuss, strategize, and plan overall process with project team via video conference. Attend up to twelve (12) progress meetings which can be facilitated by video conference if preferred. Provide up to twelve (12) monthly progress reports indicating the work completed for the invoiced month, anticipated work for the following month, and identify issues requiring Perteet's and/or the City's input or assistance. UFS will provide sample acquisition documents for the City's review and approval for use. The City's pre-approved forms will be used when provided. Prepare acquisition parcel files to include fair offer letters; recording and ancillary documents; a standard diary form indicating all contacts with owner(s); and other items necessary for negotiations. Prepare relocation files to include all required notices and forms, a standard relocation diary indicating all contacts with displaces, and other items necessary to provide relocation assistance services. UFS will provide parcel acquisition and relocation files to City for WSDOT review according to the City's approved Right-of-Way Policies and Procedures.

#### Deliverables:

- Attend kick-off meeting
- Attend twelve (12) Progress Meetings
- Provide twelve (12) Monthly Progress Reports
- Coordinate with the City, approved Acquisition and Relocation forms for project use
- Prepare parcel acquisition files
- Prepare relocation files
- Submit parcel files to City for WSDOT review

### Task 17 – 60% Plans Design (*New Task*)

The Consultant will prepare 60% plans, specification outline, and opinion of costs for the construction contract, and incorporate applicable comments received from the City based on the 30% submittal deliverables. The 60% design work will be for a single City project similar in extent of the project footprint developed during 30% design work. The plans, specifications, opinion of cost, and decision record will be submitted to the City for review and comment.

### 17.0 Preliminary Curb Ramp Design

The Consultant will propose and design ADA compliant solutions to the maximum extent feasible for each of the identified curb ramps within the project limits, as well as for the pedestrian signals located at each of the signalized intersections. The curb ramp locations and pedestrian signals will be identified and agreed upon before any curb ramp design work is performed.

The work for this task includes the design and layout for 31 identified curb ramps. It is anticipated that the location and total number of curb ramps to be designed are as follows:

- Five (5) at Midvale Ave N
- Six (6) at Ashworth Ave N
- Four (4) at Densmore Ave N
- Four (4) at Wallingford Ave N
- Eight (8) at Meridian Ave N
- One (1) at N 176th St & Meridian Ave N
- One (1) at N 177th St & Meridian Ave N
- Two (2) at Corliss Ave N

The Consultant will prepare exhibits (1-in = 10-ft scale) showing existing conditions and proposed improvements for discussion. The Consultant will attend up to two (2) coordination meetings with the City regarding curb ramp designs.

The purpose of the exhibits is to have a review of the horizontal curb ramp layouts and gain concurrence by the City of the ramp types, locations, and alignment of the curb ramps prior to the development 60% plans. The Consultant will perform minimal design needed to propose ADA compliant solutions for the curb ramps. Dimensions and details will not be provided at this level. The exhibits will be to scale so that the extent of the impacts can be approximated at the time of review.

Deliverables:

- Draft Curb Ramp Exhibits (PDF)
- Revised Curb Ramp Exhibits to be submitted with 60% design

### **17.1 60% Plans**

It is anticipated that the 60% plans will consist of the following sheets (203 sheets):

- Cover Sheet w/Vicinity Map and Index (1 sheet)
- Legend and Abbreviations (1 sheet)
- Site Preparation/Temporary Erosion and Sediment Control Plans (11 sheets)
- Typical Roadway Sections (3 sheets)
- Roadway Plan (11 sheets)
- Miscellaneous Roadway Details (2 sheets)
- Drainage Plan (11 sheets) – WILL BE PREPARED UNDER TASK 7.4
- Drainage Profile (11 sheets) – WILL BE PREPARED UNDER TASK 7.4
- Drainage Details (5 sheets) – WILL BE PREPARED UNDER TASK 7.4
- Wall Civil Plan and Profile (15 sheets) – Perteet
- Wall Structural Pile Layout Plans (7 sheets) – WILL BE PREPARED UNDER TASK 8.4
- Wall Structural Details (5 sheet) – WILL BE PREPARED UNDER TASK 8.4

- Stormwater Detention Vault Structural General Arrangement (2 Sheets) – WILL BE PREPARED UNDER TASK 8.4
- Driveway Profiles (6 sheets)
- Driveway Details (1 sheet)
- Channelization and Signing Plans (11 sheets)
- Channelization and Signing Details (5 sheets)
- Traffic Signal Plans and Details (6 sheets) – WILL BE PREPARED UNDER TASK 17.4
- Temporary Traffic Signal Plan (1 sheet) – WILL BE PREPARED UNDER TASK 17.4
- Pedestrian Signal Plans and Details (4 sheets) – WILL BE PREPARED UNDER TASK 17.4
- Illumination Plans and Details (15 sheets) – WILL BE PREPARED UNDER TASK 17.5
- Urban Design Plans (11 sheets) – WILL BE PREPARED UNDER TASK 6.5
- Urban Design Details (3 sheets) – WILL BE PREPARED UNDER TASK 6.5
- Landscaping Plans (11 sheets) – WILL BE PREPARED UNDER TASK 6.5
- Landscaping Details (3 sheets) – WILL BE PREPARED UNDER TASK 6.5
- Irrigation Plans (11 sheets) – WILL BE PREPARED UNDER TASK 6.5
- Irrigation Details (3 sheets) – WILL BE PREPARED UNDER TASK 6.5
- Franchise Utility Plan (11 sheets) – WILL BE PREPARED UNDER TASK D1
- Franchise Utility Details (5 sheets) – WILL BE PREPARED UNDER TASK D1
- Sanitary Sewer Utility Plan and Profiles (8 sheets) – WILL BE PREPARED UNDER TASK D2
- Sanitary Sewer Utility Details (3 sheets) – WILL BE PREPARED UNDER TASK D2

Assumptions:

- Note that 60% plans will not include curb return elevations, curb ramp details, construction sequencing plans, traffic control plans, pedestrian traffic control plans, or intersection grading plans. These will be provided at 90% level.

Deliverables:

- Electronic copy of the 60% plan set in PDF format via email

### 17.2 60% Opinion of Costs

The Consultant will calculate 60% level quantities and opinion of construction costs based upon the approved 60% construction plans and current unit bid prices. The Consultant will address applicable 30% review comments and make revisions as necessary.

Deliverables:

- Electronic copy of the 60% opinion of cost summary submitted in PDF format via email

### 17.3 60% Specifications

The Consultant will prepare an outline of the Contract Provisions ("Specifications") for the 60% submittal. This outline will include essential sections of the Special Provisions for specialty materials specific to this project that are not covered by the current WSDOT/APWA Standard Specifications, or Shoreline General Special Provisions. Essential specification sections may include urban design items, lightweight cellular concrete, precast concrete stormwater detention vaults, temporary construction signal system, or temporary construction illumination system. Front end contract documents, full specifications, appendices, and bid forms will not be included in the 60% submittal.

Assumptions:

- It is assumed that the City will provide the Consultant with any Shoreline General Special Provisions and Requirements to be used on the project.
- Front end contract documents, full specifications, appendices, and bid forms will not be included in the 60% submittal.

Deliverables:

- Electronic copy of the 60% specification outline in Microsoft Word format via email

#### **17.4 60% Traffic Signal Design (WSP)**

The subconsultant will prepare traffic signal plans and pedestrian signal plans that will show all existing and proposed hardware locations, including signal pole locations and mast arm lengths; vehicular and pedestrian signal head locations; vehicle detection, pedestrian push buttons, and proposed junction box locations; conduit runs; and pole schedules. Conduit layout and wiring diagrams will be included, in addition to preliminary wire schedules and pole schedules. Cabinet termination schematics and diagrams will not be shown on at this level of design to allow for revisions following City review or changes in the design before future submittals.

A temporary signal plan at NE 175th Street/Meridian Avenue N with appropriate notes and schedules will be developed if determined necessary due to construction staging on the east leg.

Deliverables:

- 60% Traffic Signal Plans (up to one [1] sheet) and Details (up to five [5] sheets) (submitted with Task 14.1 deliverables)
- 60% Temporary Traffic Signal Plan (up to one [1] sheet) (submitted with Task 14.1 deliverables)
- 60% Pedestrian Signal Plans and Details (up to four [4] sheets) (submitted with Task 14.1 deliverables)
- 60% project special provisions (submitted with Task 14.2)
- 60% opinion of cost (submitted with Task 14.3)

#### **17.5 60% Illumination Design (WSP)**

The subconsultant will prepare illumination plans that will show all existing and proposed pole locations, junction box locations, conduit runs, electrical service locations, and light standard schedules. Illumination light levels will be checked in AGi32 lighting analysis software. Conduit layout and wiring diagrams will be included, in addition to preliminary wire schedules and pole schedules. Electrical service details will not be shown at this level of the design to allow for design changes following City review.

Assumptions:

- Temporary illumination plans are not included in the 60% submittal. If it is determined the temporary illumination may be needed, a appropriate note will be included in the plans with a rough estimate in the Opinion of Cost.

Deliverables:

- Draft AGi32 light level analysis roll plot with calculation grids and output summary (one (1) electronic PDF)
- 60% Illumination Plans and Details (up to 15 sheets) (submitted with Task 14.1 deliverables)
- 60% project special provisions (submitted with Task 14.2)
- 60% opinion of cost (submitted with Task 14.3)

### **17.6 60% PS&E QA/QC and Constructability Review of Deliverables (Perteet)**

An internal Consultant quality assurance/quality control review of deliverables will be conducted, as well as confirmation that comments received have been addressed. A record of comments received will be maintained. Response to each comment received will be tracked to confirm that they have been addressed.

The Consultant will also perform a preliminary constructability review of the 60% PS&E under this task, including a site visit. This will be done by a member of the Consultant's construction inspection team.

### **17.7 Construction Sequencing Memorandum (Perteet, WSP)**

The subconsultant will participate in internal working meetings and provide input to the Construction Sequencing Memorandum that will evaluate potential construction sequencing options to take into consideration different maintenance of traffic options during construction. The subconsultant will prepare maintenance of traffic (MOT) concept level graphic exhibits that will identify the various phases for each construction contract phase up to three [3] options) that will be included in the Memorandum.

Assumptions:

- Attendance at up to two (2) workshops with the City.

**Deliverables:**

- Construction Sequencing Memo
- Opinion of Costs for up to three (3) options
- MOT concept level exhibits (for up to three [3] options)

**17.8 60% Decision Record and Risk Matrix (Perteet, WSP, HBB)**

- The Consultant will maintain a log of major design decisions made up to this point in the design in an excel spreadsheet.
- The Consultant will maintain a risk matrix in an Excel spreadsheet that incorporates risk impact, probability, effect, and risk response recommendations for risks identified up to this point in the design.

**17.9 Response to 60% Comments (Perteet, WSP, HBB)****Assumptions:**

- 60% plan review comments from City staff will be consolidated by the City and conflicting comments will be resolved by City staff prior to transmitting to the Consultant.
- The Consultant will document the City's comments received in an Excel spreadsheet.
- The Consultant's draft responses will be provided on the Consultant-developed spreadsheet.
- The Consultant will attend two (2) virtual comment review meetings.
- There will be less than 300 comments.
- Actual revisions to the 60% design will be included in a separate supplement.

**Deliverables:**

- Written responses to 60% comments (PDF)

**DIRECTED SERVICES**

The following tasks have been identified as potential Directed Services. If it is determined that these services will be required, before work begins these services will require authorization from the City prior to commencing any work.

**D1 – Grant Application Preparation****D1.2 WSDOT, TIB, and Federal Grant Assistance (*New Subtask*)**

The purpose of this task is to provide grant writing assistance to the City as requested. During the course of the work, the Consultant will provide assistance to the City in the form of grant writing and preparation of grant application materials, as directed and approved by the City. The Consultant will provide a support role and will provide specific input and sections as requested. The City will compile and submit the grant applications.

The Consultant's project manager will coordinate with the City on schedule and status of grant applications, and alignment with the City's goals.

Potential Grants to be researched and pursued:

- Federally funded programs through the PSRC and countywide administrators
- Transportation Improvement Board (TIB)
- Department of Ecology
- WSDOT Safe Routes to School
- Unified Hazard Mitigation Grant Program (HMGP)

Assumptions:

- Grant writing and application assistance are budgeted on a time and materials and is limited to the fee shown on the Consultant's Fee Worksheet.
- No guarantees are made by the Consultant that funding from identified sources will result in actual monetary award, due to the competitive nature of grant funding.
- City will provide the following for each grant, if required:
  - Current vehicle and pedestrian crash data
  - Current traffic volumes (ADT)
  - General schedule goals
  - Review of draft grant application and (one) consolidated set of comments
  - Funding commitment from funding partners (if any)
  - List of businesses, high density housing, industrial areas, schools, and public facilities within 2-3 blocks of project corridor
  - Excerpt from adopted Six-Year TIP showing project
  - Excerpt from City's Comprehensive Plan defining agency CBD and Urban Activity Center(s)
  - Other information that is not typically developed by the Consultant for a typical engineering project as described under the Scope of Services, or that is not typical data that is readily available to the Consultant

## **D2 – Sewer Main Design**

As the project design progresses, if it is determined that the project team shall design sewer improvements, the Consultant will prepare a 60% sewer design.



As part of Perteet’s contract with the City for the 175th Avenue N roadway design, Perteet staff are currently performing utility coordination tasks with the associated utility franchises. This on-going work does not include coordination with the City on its specific sewer improvements. Work performed in this task will be for utility coordination specific to the sewer improvements by the City, as defined within this directed task.

The Consultant will prepare 60% level plans and opinion of costs for sewer improvements between Meridian and I-5. Plans will include plan view alignments and profiles. The intent of the plan sheets will be to illustrate the proposed sewer alignment and design solutions and identify potential utility conflicts.

Items in this task shall include:

- New sewer main and connections on 175<sup>th</sup> Avenue NE between Meridian and I-5.
- Participate in four (4) project coordination meetings with the City. Assist in the preparation of meeting agendas and prepare meeting notes as requested.
- The Consultant will coordinate with the various public and private utilities along the route to identify and verify their facilities within the project limits. Coordination will include working with the identified utilities to allow for each to be updated about the sewer improvements throughout the project’s duration.
- Preparing and maintaining a utility coordination contact log.
- Track potential utility conflicts and track the resolution and determination of those conflicts throughout the project.
- Provide a relocation summary, if necessary, to be reviewed and confirmed with each of the utility owners after the potholing is performed.
- Prepare and provide utility owners with utility plan sheets with potential conflict locations.
- Attendance at up to two (2) utility coordination meetings.
- Attendance at one (1) comment review meeting to review and discuss the 60% comments provided by the City.

Deliverables:

- Potential utility conflicts noted on 60% plans
- 60% Sewer Plans and Details (up to 4 plan, 4 profile, and 3 detail sheets) (submitted with Task 14.1 deliverables)
- 60% opinion of cost (submitted with Task 14.3)

### **D3 – Floodplain and Wetland Buffer Mitigation Approach**

Volume displacement impacts to the 100-year floodplain for Ronald Bog have been identified during 30% design as well as wetland buffer impacts associated with the Ronald Bog wetland. It is uncertain without further investigation what mitigation potential may be feasible in the context Ronald Bog to mitigate for floodplain fill volume or wetland buffer impacts. This task will consider proposed Sound Transit mitigation actions planned to occur in Ronald Bog Park for similar Sound Transit impacts and to evaluate if any residual mitigation potential may exist for the 175<sup>th</sup> project impacts. In addition, any drainage design work associated with compensating for lost surface water storage due to project fill and grading not associated with the regulated floodplains would also fall under this task. Specific services related to this task will be dependent on some the determinations made as this task progresses, therefore this effort is budgeted based on a time and materials and is limited to the fee shown on the Consultant's Fee Worksheet and may require a supplement to this task.

Items in this task shall include:

- Participate in up to four (4) project coordination meetings with the City or others under City direction.
- The Consultant may coordinate with Sound Transit or with consultants under contract with Sound Transit to investigate mitigation options on Ronald Bog park at the request of the City.
- Identify opportunities or conflicts with incorporating project mitigation in Ronald Bog Park and report to project team and City.

Deliverables:

- Correspondence and meeting summaries

### **D4 – Additional Survey**

This task includes additional survey to be identified at a future date. This task includes extended survey project management, administrative duties, and quality control for additional survey. This task includes the recovery of previous survey control for use in this supplemental surveying effort. The Consultant shall locate and map visible features necessary for the creation of an updated engineering design basemap within the right-of-way.

Assumptions:

- The budget assigned for this work element shall not exceed the amount designated for this work element.

### **ADDITIONAL (OPTIONAL) SERVICES**

The Consultant may provide additional services as directed by the City which are not identified in this Scope of Services. Additional services shall not commence without written authorization and approval from the City and a supplement to the contract.

## **SERVICES NOT INCLUDED IN THIS SCOPE OF SERVICES**

1. Preparation of PS&E Design beyond 60%
2. Additional traffic analysis
3. Permitting
4. Custom design of railings, wall form liners, and/or site furnishings not included. Products will be premanufactured and commercially available
5. Documentation for sustainability certifications
6. Possible construction documents for off-site tree mitigation location (planting and irrigation)
7. Wayfinding and signage design
8. Water main design
9. Bid support
10. Construction management services

## **DESIGN CRITERIA**

The design criteria shall remain the same at that established under the original Scope of Services.

Changes in any design standards or requirements after work has begun may result in extra services.

## **ITEMS TO BE FURNISHED BY THE CITY**

The City will provide the following items and services to Consultant that will facilitate the preparation of the plans and studies within the limits of the project. Consultant is entitled to rely on the accuracy and completeness of the data furnished by others.

- Coordination/scheduling of meetings with City staff.
- Timely reviews of design submittals (assumed to be three [3] weeks each).
- City standards for plant selection and irrigation products.
- Payment of any and all compensation payments to property owners, recording fees, legal services, condemnation costs and any incidental costs which may arise necessary to complete each transaction.

## **PROJECT DELIVERABLES**




The documents, exhibits, or other presentations for the work covered by this Agreement (“Documents”) shall be furnished by the Consultant to the City upon completion of the various phases of the work. Whether the Documents are submitted in electronic media or in tangible

format, any use of the Documents on another project or on extensions of this project beyond the use for which they were intended, or any modification of the Documents, or conversion of the Documents to an alternate system or format shall be without liability legal exposure to the Consultant: City shall assume all risks associated with such use, modifications, or conversions. Consultant may remove from the electronic Documents delivered to City all references to Consultant's involvement and will retain a tangible copy of the Documents delivered to City which shall govern the interpretation of the Documents and the information recorded. Electronic files are considered working files only – Consultant is not required to maintain electronic files beyond 90 days after final project billing and makes no warranty as to the viability of electronic files beyond 90 days from date of transmittal.













See deliverables under each task for those items the Consultant will provide.

# N 175th St Stone Ave N to I-5

## Map Feature

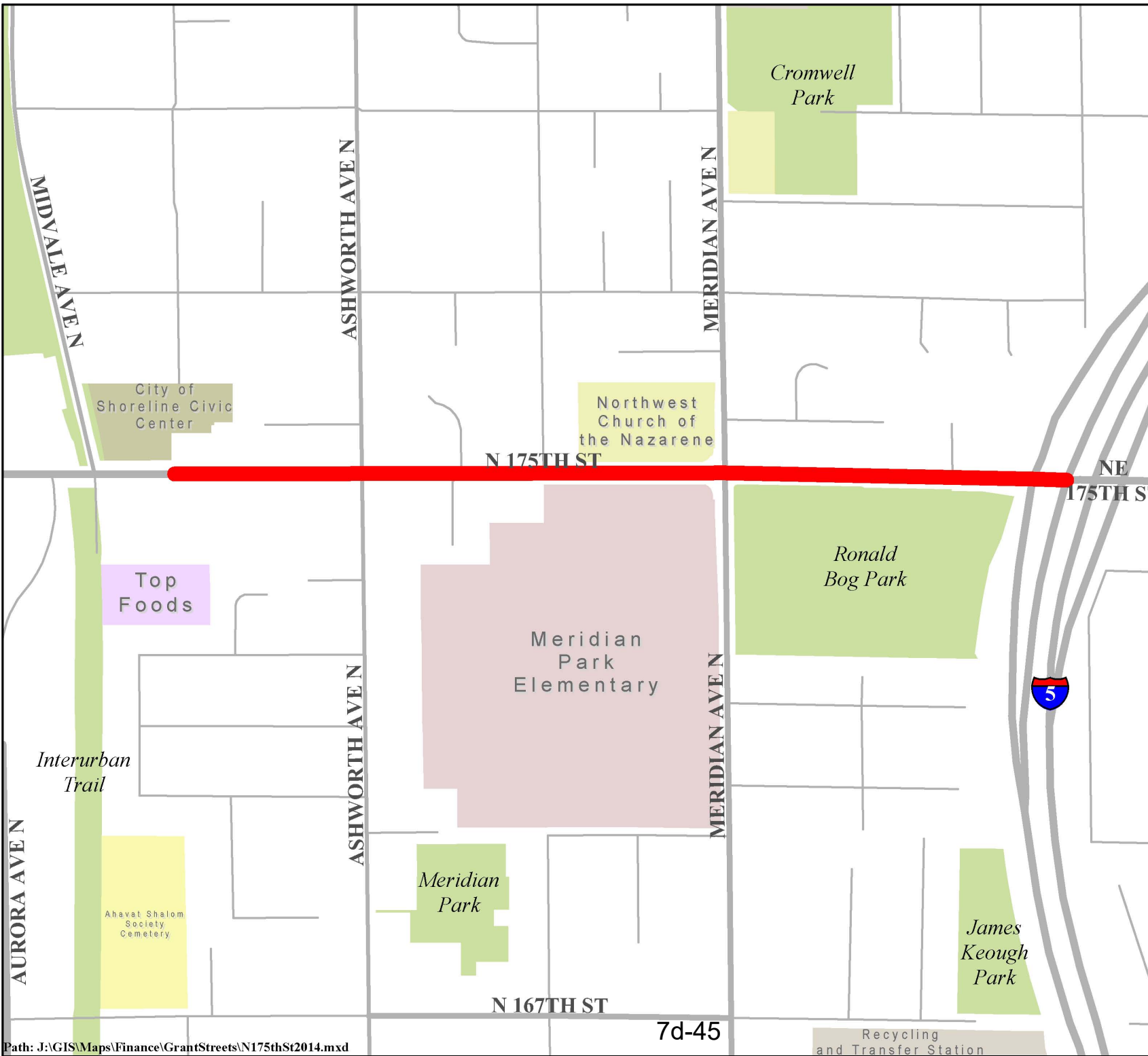
-  N 175th St Project
-  Other City Park
-  City of Shoreline Park

## Landmark

-  Cemetery
-  Commercial
-  Facility
-  Golf Course
-  Government
-  Library
-  Open Space
-  Other
-  Recreation
-  Religious
-  School
-  Transportation



User: jclark  
Date: 3/11/2014



Town of Woodway

City of Edmonds

City of Mountlake Terrace

Point Wells

Lake Ballinger

Echo Lake

City of Lake Forest Park

Puget Sound

7d-46

# N 175th St Stone Ave N to I-5

### Map Feature

- N175th St Project
- Other City Park
- City of Shoreline Park

### Landmark

- Cemetery
- Commercial
- Facility
- Golf Course
- Government
- Library
- Open Space
- Other
- Recreation
- Religious
- School
- Transportation

0 485 970 1,940 2,910 3,880 Feet



User: jclark  
Date: 3/11/2014