Historic Willamette and 10th Street Interchange Streetscape Improvements
City of West Linn, Oregon

Statement of Work
Delivery Schedule and Summary of Estimate for Services

November 16, 2018

The purpose of this contract is to complete preliminary and final design for improvements along Willamette Falls Drive, 10th Street, Salamo Road and Blankenship Road. Harper Houf Peterson Righellis Inc. (Consultant) shall provide consulting engineering services for design and construction.

Project Description

The City of West Linn is requesting the design and construction administration of streetscape improvements along Willamette Falls Drive in the historic Willamette area from 10th Street to 16th Street and the 10th Street interchange with I-205 from Willamette Falls Drive up to and including parts of Salamo Road and Blankenship Road as identified in the conceptual streetscape plans of both areas. The design of the area will need to review and verify the concepts shown in the conceptual plans (Conceptual Streetscape Master Plan dated April 2017 and 10th Street / Salamo Road Conceptual Design Plan dated August 2018) will meet current and future needs of the area and all applicable state, regional, and local laws.

Multimodal pedestrian and bike facilities in the project area are defined as substandard or completely lacking in areas of the project. Deficiencies and traffic needs in the corridor are identified in the West Linn Transportation System Plan (TSP). The purpose of this project is to provide separated bike and pedestrian facilities consistent with the TSP as well as improve overall safety of the corridor while accommodating vehicle traffic, parking, and access needs of the area.

Following the 30% design, the project will be broken into three construction packages. The following is a summary of the three projects:

1. **Willamette Falls Drive Streetscape (includes up to 8th Ct. on 10th St.)**
   This segment includes the streetscape improvements along Willamette Falls Drive including the intersection of Willamette Falls Drive and 10th Avenue.
2. **10th Street Interchange and Salamo Road Multi-Use Path**
   This segment includes protected bicycle facility improvements along both sides of 10th Street through the I-205 interchange, Intersection Improvements at 10th/Salamo/Blankenship, and a multi-use path along Salamo Road up to Barrington Drive.
3. **Blankenship Road Bicycle Facility Improvements**
   This segment includes protected bicycle facility improvements along both sides of Blankenship Road from 10th Street up to the future Tannler Drive intersection adjacent to the vacant grocery store entrance.

Final Design of the Blankenship Road Bicycle Facility Improvements final design along with construction services for all three phases will be part of a future contract amendment.

Preliminary Schedule

Topographic Survey	January-February 2019
Geotechnical Investigations	February 2019
Natural Resources Review	January 2019
30% Design	January 2019 – March 2019

Willamette Falls Drive Streetscape

60% Design	May 2019
90% Design	July 2019
Final Design	August 2019
Construction	November 2019 – June 2020

10th Street Interchange and Salamo Road Multi-Use Path

60% Design	January 2020
90% Design	March 202
Final Design	May 2020
Construction	July 2020 – December 2020

Blankenship Road Bicycle Facility Improvements

60% Design	TBD
90% Design	TBD
Final Design	TBD
Construction	TBD

HHPR has assembled a team of in-house professional engineers and surveyors, public involvement and environmental specialists, complimented with traffic and geotechnical subconsultants to complete the preliminary design analysis, final design and construction support. The following team task leads are planned for this project:

Role	Name
Project Manager	Ben Austin, PE
Project Engineer	Jimmy Houf, P.E.
Public Involvement	Stefanie Slyman, AICP
Project Surveyor	John Campbell, PLS
Wetland Scientist	Ivy Watson
Traffic Engineer	Brian Copeland, P.E.
Geotechnical Engineer	Krey Younger, P.E., G.E.

Task 1 – Project Management

1.1 Project Management and Administration

The Consultant shall provide monthly project updates and invoices, and weekly coordination with the City, as requested by the City's Project Manager to ensure that the Consultant is meeting the project objectives and requirements of the City. The Consultant shall provide coordination and project team management by communicating with sub-consultants and staff, maintaining files, preparing correspondence, preparing deliverables, and providing guidance to the team. This task includes review of subconsultant deliverables. The Consultant shall prepare and update a schedule of tasks and contract deliverables. The Consultant shall prepare summary of work updates that include documented resolved items; and team and City action item lists. For the purpose of this scope the duration of this phase of work is anticipated to be twenty four (24) months.

1.2 Project Meetings

The Consultant shall attend project meetings as outlined below. Meetings will generally be scheduled and facilitated by the Consultant unless requested otherwise by the City. Meetings are generally assumed to be two hours in duration. Project team meetings will be held at the City of West Linn and include travel to and from the meetings.

- Project Kickoff Meeting
- Project Team Meetings (Up to 24 meetings)
- ODOT Coordination Meetings (Up to 4 meetings)

Task 1 Deliverables:

- Task and Deliverables Schedule – Within 30 days of notice to proceed.
- Up to twenty four (24) schedule updates to City as part of each project invoice.
- Up to twenty four (24) summary of work updates as part of each project invoice.
- Up to twenty four (24) monthly progress reports and invoices.
- Meeting minutes for all meetings except the Project Team Meetings

Task 2 - Public Involvement

The Consultant shall prepare and implement a public involvement plan for the development of the final design. The process is anticipated to include the following elements.

2.1 Public Meetings/Open Houses

The Consultant shall plan, prepare for and facilitate up to four (4) public meetings and/or open houses (one during preliminary design and one open house for each design phase of construction) in proximity to the project area, working closely with the City of West Linn to plan these meetings. Consultant will provide agenda, meeting notices, exhibits, graphics, and staff to host the event.

2.2 Stakeholder Outreach

The Consultant shall conduct up to twelve (12) meetings of small group or individual stakeholders to discuss specific issues or segments of the project with the appropriate consultant City staff. Stakeholders may include property owners, tenants, ODOT, elected officials, and other key interest holders.

Task 2 Deliverables:

- Public Meeting/Open House notices, meeting materials, and summaries
- Public Involvement Documentation

Task 3 - Survey and Basemapping

3.1 Records Research
The Consultant will research available Clackamas County survey records, ODOT records, and any utility "as-built" records that are obtained from website sources prior to the start of work on the topographic survey. This task also includes requesting public utility locates. City will provide copy of available as-built or construction plan information from prior Projects.

3.2 Control Survey
The Consultant will establish horizontal control using the Oregon State Plane Coordinate System, North Zone. English units will be used. Project control will be based on a Local Datum Plane coordinate system in which Oregon State Plane coordinates are scaled to closely match ground distances. Vertical datum will be based upon NAVD88 utilizing GPS methods.

3.3 Right of Way Location
The Consultant shall conduct right of way surveys of the project area. Limits as shown in Exhibit A. Limits include :

- Blankenship Road from 450' west of Tannler Drive, east to 10th Street interchange.
- Salamo Road from 10th Street Interchange, east to Haskins Road.
- 10th Street interchange from Salamo Road, south to Willamette Falls Drive.
- Willamette Falls Drive from 10th Street, west to 16th Street.

The following right of way items are included within these limits:

- Using the records research identified in Task 3.1 the Consultant will identify existing survey monuments that may be disturbed or destroyed by the Project.
- In addition to those monuments that may be disturbed or destroyed by the construction of this project, the Consultant will perform a field survey of existing monuments needed to resolve existing roadway right-of-way centerline and widths, and calculate property lines.
- Resolve the existing centerline and right-of-way and incorporate into topographic base mapping described below.
- In areas where the existing right-of-way lines are located a significant distance from the proposed improvements, right-of-way lines will be calculated based upon available survey information.

No title reports will be obtained as part of the right of way location.

3.4 Topographic Survey and Base Map
A full topographic survey of the project area will be completed. The survey limits are as described above in Task 3.3 and depicted in Exhibit A.

The following items are included within the specified limits:

Complete a topographic survey consisting of data from field-shot survey, including terrain and all man-made physical features within the specified limits. Features to be shown include all street

trees and development landscaping trees, trees that are 5 inches or more in diameter (DBH), known utilities as disclosed by a standard utility locate request or utility-provided as-built, fences, area lights, culverts, wetland flags, driveways, walks, curbs, traffic and other permanent signs, striping, and structures (as accessible to surveyors). Scan underside of I-205 bridges (2 total) to confirm bridge clearance.

Request utility locate markings and record maps from all affected utility companies using standard public utility locate request. Provided utility locate markings and record map information will be combined with field ties to visible structures in order to map utilities, including utility access holes, drain inlets, utility valves, culverts, utility poles, and underground utility lines (alignment, size, invert elevations, and depths). Other underground features such as fuel tanks, wells, septic tanks, and drain fields will be shown by extrapolating from surface features and information from the public jurisdictions involved.

Incorporate the field topographic data into the project base map and prepare an Autocad Civil 3D digital terrain model. The base map scale will be 1 inch = 20 feet.

The Consultant will coordinate with the City and ODOT for work within roadways that will require flagging and a traffic control plan. Flagging for survey crew safety will be sub-contracted. Eight (8) days of flagging is included in the estimated task budget.

Task 3.5 Pre-Construction Record of Survey
The Consultant shall prepare and file a Pre-Construction Record of Survey with the Clackamas County Surveyor's Office in compliance with ORS 209.155.

Task 3 Deliverables/Schedule:

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- Existing right of way base map.
- Topographic Survey with one foot contours.
- Filed Preconstruction Record of Survey with resolved centerline and right-of-way lines for the roadway and side streets

<u>Task 4 –Utility Coordination</u>
HHPR will facilitate the relocation of any utilities that may conflict with the proposed improvements. Installing utilities underground that are currently overhead is not within the scope of this Project.

HHPR assumes that the utility companies with conflicting design elements will prepare the design for the utility relocation. The Utility providers will be confirmed with survey recognizance.

4.1 Utility Coordination Kickoff meeting
The Consultant will facilitate a utility coordination kickoff meeting with the utility companies and the Agency. The purpose of the meeting will be to identify any critical issues and to make the utility companies aware of the Project and its timelines.

4.2 Identify and Document Utility Conflicts
HHPR will prepare a preliminary utilities conflict list based upon the 60% plan submittal. HHPR will coordinate with the respective utility company(s) to find resolution.

4.3 Coordinate Relocation Plans and Specifications

HHPR will coordinate a meeting with the utility companies to assist in relocation of the utility(s) to avoid conflict with the proposed improvements. Following the utility coordination meeting, HHPR will coordinate design changes as directed by the City for the purpose of minimizing utility relocations.

HHPR will prepare a final utilities conflict list based on the 90% plan submittal. The utility company(s) will be responsible for preparing relocation plans and relocating the utility(s). HHPR will work with the utility company and prepare specifications that properly identify this work in the bid documents.

Task 4 Deliverables:

- Prepare Existing Conditions Utility Strip Map
- Utility kickoff meeting agenda and minutes
- Utility coordination meeting agenda and minutes
- Preliminary Utility Conflict List and Letters with the 60% plan submittal
- Final Utility Conflict List and Letters with the 90% plan submittal

Task 5 –Geotechnical Investigation

5.1 Retaining Wall and Signal Pole Foundation Exploration

This includes the following elements:

- Signal pole foundation at five intersections: Blankenship Road/Realigned Tannler Drive, at Blankenship/Salamo Rd /10th St, at the northbound ramps for I-5 on 10th Street, at the southbound ramps for I-5 on 10th Street and at 10th Street and Willamette Falls Drive.
- Retaining walls associated with widening for the Salamo multiuse path.

The following task items are included for our geotechnical scope of services:

- Coordinate and manage the field investigation, including locating utilities, access preparation, and scheduling of contractors and Consultant.
- Prepare traffic control plans and obtain right-of-way permits from ODOT and the City of West Linn.
- Project management including attendance at a project kick-off meeting and discussions with the project team.
- Provide traffic control during field explorations through our subcontractor.
- Drill eight (10) soil borings to depths of approximately 30 feet below ground surface using mud rotary methods for use in signal pole design at the five intersections identified above. Obtain soil samples at 2.5- and 5-foot intervals. Note, rock coring, if required to achieve the required depth, is considered a contingency.
- Drill seven (7) soil borings to depths of approximately 15 feet below ground surface using mud rotary methods for use in retaining wall design for the multiuse path on Salamo. Obtain soil samples at 2.5- and 5-foot intervals. Note, rock coring, if required to achieve the required depth, is considered a contingency.
- Maintain a detailed log of each exploration, visually classify the soil encountered, obtain soil samples as appropriate for the soil conditions encountered, and observe groundwater conditions in each exploration.
- Conduct the following laboratory tests using soil samples obtained from the explorations:
    - Consolidation tests in general conformance with ASTM D 2435
    - Moisture Content tests in general conformance with American Society for Testing and Materials (ASTM) D 2216

    - Direct Shear tests in general conformance with ASTM D 3080
    - Atterberg limit tests in general conformance with ASTM D 4318
    - Unit Weight tests in general conformance with ASTM D 2937
    - Grain size determinations, combined sieve and hydrometer, in general conformance with ASTM D422
    - Organic content tests in general conformance with ASTM D 2974
- Geotechnical engineering construction recommendations for site preparation, structural fill compaction criteria, and wet/dry weather earthwork procedures.
- Geotechnical engineering recommendations for the design and construction of retaining walls including foundation type, allowable bearing capacity, and lateral earth pressures. Provide slope stability analysis of embankment fill areas that will be retained by walls.
- Provide geotechnical engineering soil properties related to signal pole foundation design.
- Provide recommendations for proposed construction materials and practices
- Complete a draft report of our findings.
- Complete a final report based on comments from the City and design team.

5.2 Utility Trench and Pavement Design
This includes the following elements:

- Utility trench for a new storm sewer expected to a max depth of eight feet.
- Pavement design for widening.

The following task items are specific to the pavement and utility trenching:

- Drill eleven (11) soil borings to depths of up to 9.0 feet below ground surface using solid stem auger methods for use in pavement widening and utility trenching on 10th Street and Willamette Falls Drive. Obtain soil samples at 2.5- and 5-foot intervals. Note, rock coring, if required to achieve the required depth, is considered a contingency.
- Pavement recommendations will be based on existing pavement thicknesses and City typical pavement sections based on roadway classification. No pavement design is included in this scope of work.
- Utility trench recommendations including expected materials

Assumptions:

- Environmental permitting will not be required for the geotechnical field work, except coordination of field activities with USDA/APHIS/Wildlife Services for nest monitoring depending on when field activities occur.
- The drill cuttings are not contaminated and may be disposed of off-site by our drilling subcontractor. If the drill cuttings appear to be contaminated, the team will be informed immediately, and the necessary action will be taken upon authorization.
- Infiltration testing will not be required.
- Pavement analysis of existing structures will not be required.
- Rock coring will not be required and is included as a contingency.

5.3 Rock Coring Contingency
The following task items are a contingency in the event that bedrock is encountered, and coring is required to complete the excavation to the required depth:

- Up to 60 feet of rock coring is assumed.
- Provide recommendations for signal pole, utility trenching, and/or retaining wall design and construction parameters specific to rock excavation.
- Unconfined compression tests if intact rock is encountered

Task 5 Deliverables:

- Summary of Geotechnical Recommendations for Retaining Wall and Signal Pole Design
- Summary of Geotechnical Recommendations for Utility Trenches and Pavement section.

Task 6 - Environmental Reconnaissance

The Consultant shall review available data for the project area, including National and Local Wetland Inventories, previous wetland delineations, soil survey data, and topographic maps. The Consultant shall conduct a visual survey of the project area. From this data, the Consultant will confirm the absence of wetlands or identify potential wetlands, if present. Results will be summarized in a brief memorandum. No wetland delineation will be completed as part of this scope of work.

Task 6 Deliverables:

- Wetland Reconnaissance Memorandum

Task 7 – Traffic Analysis

Consultant shall collect turn movement count data and analyze traffic operations at the following intersections during the AM and PM peak periods:

- Blankenship Rd/Tannler Drive
- Blankenship Rd/Salamo Rd/10th St

In addition, 16-hour turn movement count data will be collected at the intersection Salamo Rd/Barrington Drive to evaluate potential pedestrian crossing treatments.

Traffic count data shall include pedestrian and bicycle activity. Traffic operations shall be evaluated for existing (2018) no-build, existing build, and future (2040) build scenarios at the intersections of Blankenship Road/Tannler Drive and Blankenship Road/Salamo Road/10th St. For intersections that do not meet current relevant (ODOT or West Linn) standards, Consultant shall identify potential mitigations. Consultant shall develop future year 2040 volume forecasts using Metro's 2040 Travel Demand Model.

Consultant shall apply the 2010 Highway Capacity Methodology (HCM) to perform level of service (LOS) analysis using Synchro. Consultant shall perform a 95th percentile queuing analysis for the exiting build scenario using SimTraffic to determine turn lane storage needs.

NCHRP 562 pedestrian crossing analysis shall be completed for the intersection of Salamo Rd and Barrington Drive. The objective of this evaluation is to determine the appropriate pedestrian crossing treatment. A signal warrant analysis shall also be conducted at this location.

Traffic analysis findings shall be summarized in a technical memorandum.

Consultant shall conduct up to four (4) meetings with ODOT and/or the City of West Linn at important milestones of developing the analysis as well as after completing the tasks to review findings, finalize analysis and discuss results. DKS shall respond to one unified, compiled set of comments from ODOT and the City on the draft memorandum, and shall incorporate these comments into the final memorandum.

Assumptions:

- It is assumed since we are not proposing to change lane configurations or operations at the intersections of 10th Street/I-205 Southbound Ramps and 10th Street/I-205 Northbound Ramps, no traffic data will be collected and no traffic analysis will be performed at these intersections.
- Aside from the three intersection locations shown above, no traffic data will be collected as part of this scope.

Task 7 Deliverables:

- Traffic Analysis Memorandum (Draft and Final)

Task 8 – Preliminary Engineering

The Consultant shall provide final engineering of the roadway. This task shall include the following elements.

8.1 30% PS&E

Construction Plans

The Consultant shall produce 30% construction plans consistent with the plan sheet checklist at the end of this section. The design will include design information such as horizontal and vertical alignment including street (curb line) layout for the project corridor. Plans will include profile and preliminary section information to determine the limits of impacts including slopes and retaining walls.

Traffic Signal Design

New or modified traffic signal designs shall be included at the following intersections:

- Blankenship Rd/Realigned Tannler Drive
- Blankenship Rd/Salamo Rd/10th St
- 10th Street/I-205 SB Ramps
- 10th Street/I-205 NB Ramps
- 10th Street/Willamette Falls Drive

Existing traffic signal interconnect shall be maintained to the extent possible as part of these signal design efforts.

Illumination Design

Illumination design shall be provided for the following areas:

- At all signalized intersections (where poles are being installed)
- Along Blankenship Rd between realigned Tannler Dr and10th St
- At the intersection of Salamo Rd/Barrington Dr
- At the intersection of 10th St/Willamette Falls Drive
- Along Willamette Falls Drive between 10th St and 15th St
- At the intersection of 8th Ave/10th St

Cobra-head style luminaires shall be installed as feasible on all new signal poles. Luminaires and poles along Blankenship Road and Willamette Falls Drive will be selected by the City of West Linn from the PGE-approved product list. Consultant shall perform lighting analysis using AGI lighting software to determine appropriate lighting layout needed to meet current ODOT and IES guidelines. Duplex electrical outlets shall be provided at the base of street trees along Willamette Falls Drive.

Assumptions:

- Lighting design will not be included for the new shared-use path along Salamo Road nor along 10th Street (except at intersections).
- No duplex electrical outlets or associated circuits will be provided on illumination poles.
- City will provide assumptions for electrical loads for use in designing duplex outlet circuits on Willamette Falls Drive.
- No hanging baskets on light poles.

Construction Cost Estimate

The Consultant shall prepare a preliminary construction cost estimate for the proposed improvements. Estimate will be broken down by anticipated bid packages described below.

Construction Plans

The Consultant shall prepare a 30% design memorandum documenting the design, any key design decisions and next steps for each phase.

Quality Control

An internal quality control review of all documents prior to submission to the City.

Plan Sheet Check List

Plan sheet	30%
Title Sheet	X
Typical Section	X
Paving Plan	
Details (street, storm, etc.)	
Erosion Control	
Temporary Traffic Control During Construction Plans	
Horizontal Geometry	X
Grading Details	
Plan and Profile – Street/Storm Design	X
Pipe Data Sheet	
Landscape Plans	
Signing and Striping Plans	X*
Street Lighting Plans	X
Traffic Signal Plans	X
Traffic Signal Interconnect	

Utility Relocation Plans	
Retaining Wall Plans	
Roadway Sections	X
Standard Drawings (ODOT/APWA)	

* 30% Submittal will include striping only

Note: Landscape plans will consist for preliminary layout of trees, planting and seeding areas. No specific plant species will be identified. The purpose of these plans are for a placeholder for City design-building landscaping following construction.

8.2 Preliminary Stormwater Management Report

The Consultant shall prepare a preliminary stormwater management report documenting the stormwater management concepts for the project and compliance with City of West Linn standards.

Task 8 Deliverables:

- 30% Plans and Cost Estimate
- Preliminary Stormwater Management Report

Following the development of the 30% design, the project will be phased into three bid packages:

4. **Willamette Falls Drive Streetscape (includes up to 8th Ct. on 10th St.)**
5. **10th Street Interchange and Salamo Road Multi-Use Path**
6. **Blankenship Road Bicycle Facility Improvements**

Task 9 – Final Engineering – Willamette Falls Drive Streetscape

The Consultant shall provide final engineering for the improvements outlined in the preliminary design. This task shall include the following elements.

9.1 60% PS&E

Construction Plans

The Consultant shall produce 60% construction plans consistent with the plan sheet checklist at the end of this section. The design will expand on the 30% design and include driveway design, storm drainage plan and profile, side street transitions, preliminary retaining wall profiles, signing and striping, traffic signals, illumination, and temporary traffic control.

Construction Specifications

The Consultant shall prepare outline special provisions. The special provisions will be based on the ODOT 2018 Specifications for Construction. Outline specifications will consist of compilation of the appropriate sections required for the project work.

Construction Cost Estimate

The Consultant shall prepare a 60% construction cost estimate for the proposed improvements.

Quality Control
An internal quality control review of all documents prior to submission to the City.

30% Review Comments
The Consultant will review and provide written response to all City comments from the 30% documents.

9.2 Final Stormwater Management Report

The Consultant shall prepare a final stormwater management report documenting the stormwater management for the project and demonstrating compliance with City of West Linn standards. The report will build upon the concepts in from the 30% design.

9.3 90% PS&E

Construction Plans
Consultant will produce 90% complete design plans consistent with the plan sheet checklist at the end of this section. Design will include detailed grading of ramps and curb returns, construction notes, construction details, and wall design information and details.

Construction Specifications
The Consultant shall prepare draft special provisions. The special provisions will be based on the ODOT 2018 Specifications for Construction.

Construction Cost Estimate
The Consultant shall prepare a 90% construction cost estimate for the proposed improvements.

Quality Control
An internal quality control review of all documents prior to submission to the City.

60% Review Comments
The Consultant will review and provide written response to all City comments from the 60% documents.

9.4 Final PS&E

Construction Plans
The Consultant shall produce final construction plans consistent with the plan sheet checklist at the end of this section.

Construction Specifications
The Consultant shall prepare final special provisions. The special provisions will be based on the ODOT 2018 Specifications for Construction.

Construction Cost Estimate
The Consultant shall prepare a final engineers construction cost estimate for the proposed improvements.

Construction Schedule
The Consultant shall prepare a construction schedule to address project duration by stage and any specific sequencing of construction. The schedule will be prepared in MS Project.

Quality Control
An internal quality control review of all documents prior to submission to the City.

90% Review Comments
The Consultant will review and provide written response to all City comments from the 90% documents.

9.5 Bid Documents

Bid Booklet
The Consultant shall prepare the bid booklet based on the City of West Linn boilerplate documents.

Construction Schedule
The Consultant shall prepare an anticipated construction schedule.

Bid Schedule
The Consultant shall prepare bid schedule based on the final construction cost estimate.

9.6 Permits

1200-C Permit
The Consultant shall prepare documents and submit for a 1200-C permit

Plan Sheet Check List

Plan sheet	60%	90%	100%
Title Sheet	X	X	X
Typical Section	X	X	X
Paving Plan	X	X	X
Details (street, storm, etc.)	X	X	X
Erosion Control	X	X	X
Temporary Traffic Control During Construction Plans	X	X	X
Horizontal Geometry	X	X	X
Grading Details	X	X	X
Plan and Profile – Street/Storm Design	X	X	X
Pipe Data Sheet		X	X
Irrigation Plans	X	X	X
Signing and Striping Plans	X	X	X
Street Lighting Plans	X	X	X

Traffic Signal Plans	n/a	n/a	n/a
Traffic Signal Interconnect	X	X	X
Utility Relocation Plans	X	X	X
Retaining Wall Plans	X	X	X
Roadway Sections	X	X	X

The following temporary traffic control plans will be prepared for this task:

- Advance Area Signing - 1 sheet
- Temporary Traffic Control/Staging Plans – 3 sheets
- Traffic Control Details – 4 sheets

Although pedestrians will be accommodated as part of the temporary traffic control plans, a Temporary Pedestrian Access Route (TPAR) will not be required for this task.

No Traffic Management Plan (TMP) will be prepared for this task.

No landscape plans with final design. Irrigation will be design build irrigation plans to identify sleeving and other backbone appurtenances to facilitate City design and construction of an irrigation system.

9.7 Bid Support

The Consultant will respond to questions from bidders and suppliers regarding the plans and special provisions that are fielded by the Agency. Responses to questions will be in writing and forwarded to the Agency for distribution within 24 hours from the time a question is submitted by the bidder.

The consultant will, during the bidding process, manage the communications with bidders and suppliers in a manner that assures that no bidder or supplier is provided with information that could provide a bidding advantage or disadvantage. The Consultant will prepare a written log to document conversations and questions by bidders and/or suppliers and the answers provided to them. The Consultant will prepare a summary of the communications at the close of the bidding period.

The Consultant will prepare addenda to the bid documents as required during the bidding process. For budgeting purposes, this scope of work shall include the preparation of two addenda to the bid documents.

A pre-bid meeting is not anticipated.

Task 9 Deliverables:

- 60% Plans, Specifications and Cost Estimate
- Final Stormwater Management Report
- 90% Plans, Specifications and Cost Estimate
- Final Plans, Specifications and Cost Estimate
- Bid Booklet
- Construction Schedule
- Bid Schedule
- 1200-C Permit materials

- Written log of conversations, questions and answers, as required during the bid.
- Two (2) memos in response to any question submitted by bidders, as required.
- Up to two (2) addenda to the bid documents, as required.

Task 10 – Final Engineering – 10th Street Interchange and Salamo Road Multi-Use Path

The Consultant shall provide final engineering for the improvements outlined in the preliminary design. This task shall include the following elements.

10.1 60% PS&E

Construction Plans

The Consultant shall produce 60% construction plans consistent with the plan sheet checklist at the end of this section. The design will expand on the 30% design and include driveway design, storm drainage plan and profile, side street transitions, preliminary retaining wall profiles, signing and striping, and traffic control.

Construction Specifications

The Consultant shall prepare outline special provisions. The special provisions will be based on the ODOT 2018 Specifications for Construction. Outline specifications will consist of compilation of the appropriate sections required for the project work.

Construction Cost Estimate

The Consultant shall prepare a 60% construction cost estimate for the proposed improvements.

Quality Control

An internal quality control review of all documents prior to submission to the City.

30% Review Comments

The Consultant will review and provide written response to all City comments from the 30% documents.

10.2 Final Stormwater Management Report

The Consultant shall prepare a final stormwater management report documenting the stormwater management for the project and demonstrating compliance with City of West Linn standards. The report will build upon the concepts in from the 30% design.

10.3 90% PS&E

Construction Plans

The Consultant shall produce 60% construction plans consistent with the plan sheet checklist at the end of this section. The design will expand on the 30% design and include driveway design, storm drainage plan and profile, side street transitions, preliminary retaining wall profiles, signing and striping, traffic signals, illumination, and temporary traffic control.

Construction Specifications

The Consultant shall prepare draft special provisions. The special provisions will be based on the ODOT 2018 Specifications for Construction.

Construction Cost Estimate
The Consultant shall prepare a 90% construction cost estimate for the proposed improvements.

Quality Control
An internal quality control review of all documents prior to submission to the City.

60% Review Comments
The Consultant will review and provide written response to all City comments from the 60% documents.

10.4 Final PS&E

Construction Plans
The Consultant shall produce final construction plans consistent with the plan sheet checklist at the end of this section.

Construction Specifications
The Consultant shall prepare final special provisions. The special provisions will be based on the ODOT 2018 Specifications for Construction.

Construction Cost Estimate
The Consultant shall prepare a final engineers construction cost estimate for the proposed improvements.

Construction Schedule
The Consultant shall prepare a construction schedule to address project duration by stage and any specific sequencing of construction. The schedule will be prepared in MS Project.

Quality Control
An internal quality control review of all documents prior to submission to the City.

90% Review Comments
The Consultant will review and provide written response to all City comments from the 90% documents.

10.5 Bid Documents

Bid Booklet
The Consultant shall prepare the bid booklet based on the City of West Linn boilerplate documents.

Construction Schedule
The Consultant shall prepare an anticipated construction schedule.

Bid Schedule
The Consultant shall prepare bid schedule based on the final construction cost estimate.

10.6 Permits

1200-C Permit
The Consultant shall prepare documents and submit for a 1200-C permit

ODOT Miscellaneous Permit
The Consultant shall prepare documents and submit for an ODOT Miscellaneous permit for work within State right of way.

Plan Sheet Check List

Plan sheet	60%	90%	100%
Title Sheet	X	X	X
Typical Section	X	X	X
Paving Plan	X	X	X
Details (street, storm, etc.)	X	X	X
Erosion Control	X	X	X
Temporary Traffic Control During Construction Plans	X	X	X
Horizontal Geometry	X	X	X
Grading Details	X	X	X
Plan and Profile – Street/Storm Design	X	X	X
Pipe Data Sheet		X	X
Irrigation Plans	X	X	X
Signing and Striping Plans	X	X	X
Street Lighting Plans	X	X	X
Traffic Signal Plans	X	X	X
Traffic Signal Interconnect	X	X	X
Utility Relocation Plans	X	X	X
Retaining Wall Plans	X	X	X
Roadway Sections	X	X	X

The following temporary traffic control plans will be prepared for this task

- Advance Area Signing - 1 sheet
- Temporary Traffic Control/Staging Plans – 4 sheets
- Traffic Control Details – 7 sheets

A Temporary Pedestrian Access Route (TPAR) will be required for this task, and will be incorporated into the temporary traffic control plans.

No Traffic Management Plan (TMP) will be prepared for this task.

No landscape plans with final design. Irrigation will be design build irrigation plans to identify sleeving and other backbone appurtenances to facilitate City design and construction of an irrigation system.

10.7 Bid Support

The Consultant will respond to questions from bidders and suppliers regarding the plans and special provisions that are fielded by the Agency. Responses to questions will be in writing and forwarded to the Agency for distribution within 24 hours from the time a question is submitted by the bidder.

The consultant will, during the bidding process, manage the communications with bidders and suppliers in a manner that assures that no bidder or supplier is provided with information that could provide a bidding advantage or disadvantage. The Consultant will prepare a written log to document conversations and questions by bidders and/or suppliers and the answers provided to them. The Consultant will prepare a summary of the communications at the close of the bidding period.

The Consultant will prepare addenda to the bid documents as required during the bidding process. For budgeting purposes, this scope of work shall include the preparation of two addenda to the bid documents.

A pre-bid meeting is not anticipated.

10.8 Temporary Traffic Signal Design at Blankenship Rd/Salamo Rd/10th St (Contingency)

If needed, a temporary traffic signal will be designed at the intersection of Blankenship Rd/Salamo Rd/10th St. Four plans sheets will be prepared for this task.

10.9 Temporary Traffic Signal Design at 10th Street/I-205 SB Ramps (Contingency)

If needed, a temporary traffic signal will be designed at the intersection of 10th Street/I-205 SB Ramps. Four plans sheets will be prepared for this task.

10.10 Temporary Traffic Signal Design at 10th Street/I-205 NB Ramps (Contingency)

If needed, a temporary traffic signal will be designed at the intersection of 10th Street/I-205 NB Ramps. Four plans sheets will be prepared for this task.

Task 10 Deliverables:

- 60% Plans, Specifications and Cost Estimate
- Final Stormwater Management Report
- 90% Plans, Specifications and Cost Estimate
- Final Plans, Specifications and Cost Estimate
- Bid Booklet
- Construction Schedule
- Bid Schedule
- 1200-C Permit materials
- ODOT Miscellaneous Permit materials
- Written log of conversations, questions and answers, as required during the bid.
- Two (2) memos in response to any question submitted by bidders, as required.
- Up to two (2) addenda to the bid documents, as required.

EXHIBIT: COST AND SCOPE PROPOSAL
Historic Willamette and 10th Street Interchange Streetscape Improvements
City of West Linn

Harper Houf Peterson Righellis Inc.

November 16, 2018

TASK DESCRIPTIONS	TOTAL PER TASK
Task 1: Project Management	
1.1 Project Management and Administration	$ 64,922.00
1.2 Project Meetings	$ 66,555.40
Task 2: Public Involvement	
2.1 Public Meetings/Open Houses	$ 31,500.00
2.2 Stakeholder Outreach	$ 22,999.20
Task 3: Survey and Basemapping	
3.1 Records Research	$ 2,400.00
3.2 Control Survey	$ 12,000.00
3.3 Right of Way Location	$ 32,800.00
3.4 Topographic Survey and Base Map	$ 88,840.00
3.5 Pre-Construction Record of Survey	$ 13,840.00
Task 4: Utility Coordination	
4.1 Utility Coordination Kickoff Meeting	$ 2,110.00
4.2 Identify and Document Utility Conflicts	$ 11,000.00
4.3 Coordinate Relocation Plans and Specifications	$ 21,300.00
Task 5: Geotechnical Investigation	
5.1 Retaining Wall and Signal Pole Foundation Exploration	$ 63,073.50
5.2 Utility Trench and Pavement Design	$ 18,144.00
5.3 Rock Coring (Contingency)	$ 10,897.95
Task 6: Environmental Reconnaissance	
6.0 Environmental Reconnaissance	$ 3,450.00
Task 7: Traffic Analysis	
7.0 Traffic Analysis	$ 15,928.50
Task 8: Preliminary Engineering	
8.1 30% PS&E	$ 155,805.50
8.2 Preliminary Stormwater Management Report	$ 20,100.00
Task 9: Final Engineering - Willamette Falls Drive Streetscape	
9.1 60% PS&E	$ 96,139.50
9.2 Final Stormwater Management Report	$ 12,980.00
9.3 90% PS&E	$ 77,225.25
9.4 Final PS&E	$ 59,865.50
9.5 Bid Documents	$ 19,560.00
9.6 Permits	$ 8,300.00
9.7 Bid Support	$ 3,622.25
Task 10: Final Engineering - 10th Street Interchange and Salamo Road Multi-Use Path	
10.1 60% PS&E	$ 84,150.50
10.2 Final Stormwater Management Report	$ 11,980.00
10.3 90% PS&E	$ 66,854.25
10.4 Final PS&E	$ 51,064.25
10.5 Bid Documents	$ 12,760.00
10.6 Permits	$ 20,000.00
10.7 Bid Support	$ 5,674.25
10.8 Temporary Traffic Signal Design at Blankenship Rd/Salamo Rd/10th St (Contingency)	$ 12,442.50
10.9 Temporary Traffic Signal Design at 10th St/I-205 SB Ramps (Contingency)	$ 12,442.50
10.10 Temporary Traffic Signal Design at 10th St/I-205 NB Ramps (Contingency)	$ 12,442.50
	$ 1,225,169.30