



## **Exhibit “A” Project Plan Schedule 74 Underground Conversion**

**City of Tumwater – SCH74 ISRAEL RD SW / LINDERSON WAY**

**PSE Project Number: 101156949**

**4/28/2023**

Pursuant to Puget Sound Energy (“PSE”) Rate Schedule 74 and as described in this Project Plan, PSE will convert its existing overhead electrical distribution system of 15,000 volts or less to an equivalent Underground Distribution System. This Project Plan describes the scope of construction work (the “Construction Work”) to be performed by PSE and the City of Tumwater (the “City”) for the conversion of certain PSE electrical distribution system facilities as described herein (the “Conversion Project”). Construction of this Conversion Project is contingent upon and shall commence only after both written acceptance of this Project Plan and written execution of a Schedule 74 Construction Agreement by the City and PSE.

This Project Plan includes and consists of:

- Description of the Construction Work to be performed
- Construction Drawings, Standards, Specifications and Requirements for the Construction Work (attached)
- Operating Rights to be obtained for the Conversion Project (attached)
- Construction Work Schedule
- Construction Costs Estimate Summary (attached)

Revisions to this Project Plan must be mutually approved by the City and PSE.

### **Construction Work**

This Conversion Project will replace PSE’s existing overhead electrical distribution system with an Underground Distribution System within the following area (the “Conversion Area”): Israel RD SW from Linderson Way SW to Capitol BLVD SW. The Conversion Project is approximately 4,400 feet in length, including laterals and road crossings.

The Conversion Project includes modification or replacement of all existing services lines within the Conversion Area to connect to the Underground Distribution System and removal of PSE’s existing overhead electric distribution facilities (including PSE distribution poles and pole mounted street lights) from the Conversion Area.

Fluidized Thermal Backfill (FTB, a form of controlled density fill) is required in trenches containing four or more PSE six inch ducts. FTB will be used in place of standard backfill as shown in the Construction Drawings in accordance with applicable PSE Standards. FROM PV2 TO SW2. APPROXIMATE FOOTAGE 410’.

There are no Company Initiated Upgrades, Government Entity Requested Upgrades or Temporary Service elements included in the Conversion Project Scope of Work.

City requested upgrades included in this project consist of: Research and compliance with Buy America Act provisions administered by the Federal Highways Administration (FHWA) and/or the Federal Transit Administration (FTA).

The following portions of PSE’s existing facilities to be converted are located outside of Public Thoroughfare: See PSE Design for V01, V02, J05, P07, J06, PV2, SW2, PV3, J07 & V03.

In conjunction with this Conversion Project, PSE will remove its existing street lighting system from the Conversion Area. Provision of a replacement street lighting system within the Conversion Area is not included in this Project Plan. Replacement street lighting service can be provided by separate arrangement in accordance with applicable PSE Tariff Schedules.

## **Responsibilities of Parties**

### **City Responsibilities**

- a) At least twenty (20) business days prior to the scheduled commencement of Construction Work, hold a pre-construction meeting involving all participants in the Conversion Project to review project design, coordination requirements, work sequencing and related premobilization requirements.
- b) At least ten (10) business days prior to the scheduled commencement of Construction Work, give PSE written notice to proceed with the Construction Work to allow for delivery of PSE materials to the job site and scheduling of PSE’s on-site Inspector.
- c) Provide written notice to customers within the Conversion Area in advance of Conversion Project Construction Work start. The notice will include contact information for both the City and PSE, the expected Conversion Project schedule, anticipation of service interruptions and work required to be performed by customers.
- d) Coordinate other utility conversion, removal and relocation from PSE’s poles.
- e) Provide all surveying for equipment placement, locations, and establish all grade elevations for the Underground Distribution System within the Conversion Area.
- f) Provide all necessary excavation, bedding, backfill, off-site disposal, site restoration and coordination for installation of the Underground Distribution System. This includes trenching, backfill, and restoration for cut-over and transfer of existing underground system and service lines from the existing overhead distribution system to the new Underground Distribution System.
- g) Coordinate private property trenching, excavation and restoration activity with private property owners affected by this Conversion Project.

- h) Provide flagging and traffic control as required for all work performed by the City.
- i) Install and proof all ducts and vaults for the Underground Distribution System (excluding work in ducts or vaults containing energized cables or equipment – see PSE Responsibilities) in accordance with PSE standards and specifications using ducts and vaults provided by PSE. “Proofing” as used herein is defined as verification using a mandrel that the duct and vault system is free and clear of damage, installed to the proper grade and at the proper location and contains a pulling line.
- j) Provide at least twenty (20) business days’ notice for scheduled delivery of PSE vaults by PSE’s vault supplier.
- k) Provide secure staging and storage area(s) for duct and vault materials provided by PSE. The City shall be responsible for the security and condition of these materials until they are installed and accepted by PSE or returned to PSE’s custody.
- l) Provide labor and equipment for the off-loading of PSE duct and vault materials delivered to the job site.
- m) Promptly following notice from PSE that the Underground Distribution System has been energized, provide notice to customers within the Conversion Area informing them of their obligation and responsibility to convert their overhead service lines to underground service lines as provided by state law or to modify existing underground service lines for connection to the Underground Distribution System. Affected service lines are listed in the Service Lines section of this Project Plan.
- n) Facilitate weekly (or as otherwise agreed by the City and PSE) construction coordination meetings to include all relevant parties participating in the conversion including PSE and its contractor(s), the City and its contractor(s), and other utilities.
- o) Provide any necessary operating rights for the installation of PSE’s facilities in accordance with PSE’s Schedule 74 Section 3 and as mutually agreed by the PSE and the City. Operating rights are further addressed in the Operating Rights section of this Project Plan.
- p) Modify, reroute or replace service lines to City owned facilities to connect to the Underground Distribution System.
- q) Following notification from PSE that Construction Work is complete, provide to PSE any Shared Government Costs as provided for in the Construction Agreement.

### **Puget Sound Energy Responsibilities**

- a) Provide all duct and vault materials, cables, electrical equipment and components necessary for installation of the Underground Distribution System including certifications of materials origins (COMOs) as may be required for products that must meet applicable provisions of the Buy America Act as administered by the Federal Highways Administration (FHWA) and/or the Federal Transit Administration (FTA).
- b) Following notice from the City, deliver or cause to be delivered all duct and vault materials to the designated staging/storage area(s). Acknowledge delivered quantities and condition of duct and vault materials by signing shipping manifests.

- c) Following notice from the City, provide inspection services needed for overseeing the proper installation of ducts and vaults by the City.
- d) Accept delivery of the completed duct and vault system once the new system has been proofed (as described above) by the City. PSE will provide a mandrel to the City to be used in proofing of the duct and vault system.
- e) Provide PSE electrical workers to complete duct installation and proofing when such work is performed at or in any energized vault containing energized cables or equipment.
- f) Install (except for ducts and vaults installed by the City) and energize the Underground Distribution System. Provide written notice to the City when the Underground Distribution System is energized.
- g) Perform cut-over and transfer of existing Underground Distribution System and existing underground service lines from the overhead distribution system to the new Underground Distribution System where applicable (see City Responsibility item “f” concerning trenching responsibility). PSE will notify the City for excavation and the affected customers at least two (2) business days prior to installation, transfer, and connection of underground service lines. Affected service lines are listed in the Service Lines section of this Project Plan.
- h) Install and connect replacement underground service lines to single family residences and connect modified and replacement non-residential underground service lines provided by customers within the Conversion Area pursuant to PSE Tariff Schedule 85. Affected service lines are listed in the Service Lines section of this Project Plan.
- i) Remove the existing overhead electric distribution system including, conductors, equipment, down guys, anchors and poles after all service lines to customers within the Conversion Area are connected to the Underground Distribution System and all other utilities have been removed from PSE’s poles. Holes left following removal of poles will be filled with crushed rock and compacted in accordance with applicable City standards or specifications.
- j) Provide flagging and traffic control as required for all work performed by PSE (except as may otherwise be reasonably provided by the City during installation of ducts and vaults in conjunction with City performed trenching, excavation, back-fill and restoration).
- k) Attend weekly (or as otherwise agreed by the City and PSE) construction coordination meetings facilitated by the City and its contractor during periods of Conversion Project construction.

### **Operating Rights**

The Underground Distribution System will be located within Public Thoroughfare except as described in the Operating Rights Attachment. The Construction Work will not be released by PSE for construction until i) all operating rights necessary for the installation of PSE’s facilities have been obtained and have been verified by PSE, or ii) the City otherwise signs an agreement releasing PSE from any and all financial obligations associated with the location or relocation of PSE facilities resulting from commencement of construction prior to acquisition of all identified necessary operating rights. AFN1035387

## **Construction Work Schedule**

The Construction Work will be performed in accordance with the following Work Schedule, unless this schedule is revised by mutual agreement of the City and PSE or circumstances beyond the reasonable control of the City and/or PSE preclude such performance.

**Installation of ducts and vaults:** 200' a day for trenching & installation of conduit. Approx. 22 days.

**Installation and energization of the Underground Distribution System:** 32 days.

**Removal of overhead facilities:** 5 days.

## **Construction Cost Estimate**

The estimated costs to perform the Construction Work and the allocation of costs between the parties are presented in the attached Construction Costs Estimate Summary. These estimated costs are valid for ninety (90) days from the date shown on the attached Construction Costs Estimate Summary. If this Project Plan and a Schedule 74 Construction Agreement are not fully executed within ninety (90) days from this date, the estimated costs shall be subject to revision.

The scope of work provided for in the previously executed Design Agreement has been completed with written acceptance of this Project Plan by the City and PSE. The Construction Cost Estimate reflects and provides for Construction Work costs commencing with PSE attendance at the required pre-construction meeting and receipt of the City's written notice to proceed with Construction Work. Work performed and/or costs incurred by PSE in response to City request following acceptance of the Project Plan and prior to the pre-construction meeting are not included in the Construction Cost Estimate, and shall be subject to addition to the Construction Cost Estimate by revision as described below.

Estimated Inspection and Service Provider Outside Services costs are based on 2023 contract rates. Costs for Construction Work performed by PSE after 2023 shall be subject to revision to reflect PSE Service Provider contract rates which become effective after this date.

Changes in Construction Work scope, performance and/or schedule can result in actual Construction Costs that differ from estimated costs shown in the Construction Cost Estimate Summary. In the event performance of the Construction Work cannot or does not proceed substantially as provided in this Project Plan, such changes shall promptly be brought to the attention of PSE and the City when anticipated or known and shall be documented in a revision to the Construction Cost Estimate (a "Cost Estimate Revision") mutually agreed and executed by the City and PSE.

## **Project Assumptions**

The project design, construction plans and cost estimates are based on and reflect the following assumptions. Construction conditions that are not consistent with these assumptions may result in a request for change or an equitable adjustment to project compensation under Section 6 of the Construction Agreement and addressed by a Cost Estimate Revision.

## **Cost Assumptions**

1. The Construction Work will be performed in accordance with the Construction Drawings and Construction Work Schedule.
2. PSE's Project Manager will accept or reject (with written justification) the duct and vault installation work performed by the City within five (5) business day notice of completion from the City. In the event PSE rejects any of the ducts or vaults (with reasonable written justification), the City will perform the necessary remedial work. The City will then re-notify PSE and PSE shall have five (5) business days to accept or reject the remedial work.
3. All PSE cables can be pulled through the ducts and vaults system, including existing ducts and vaults if applicable, to be used for the Conversion Project utilizing normal cable pulling equipment and methods.
4. A City Street Use permit is the only permit necessary for PSE to perform its work for this Conversion Project and will be issued within two (2) weeks of PSE submitting a complete permit application (including any supporting documentation reasonably required by the City). There will be no charge for the permit or inspection fees.
5. The estimated daily productivity rate for PSE duct and vault installation is based on the City's contractor opening a minimum of 200 feet of trench per working day. The daily productivity rate is used to estimate the number of days a PSE Inspector will be required during installation of ducts & vaults. The Inspector will be scheduled in full day increments and in one continuous effort. Changes to a continuous schedule require a minimum of five days advance notice and must be mutually agreed between the City and PSE.
6. Attendance by the PSE Project Manager at scheduled weekly construction coordination meetings is included and reflected in the Construction Cost Estimate during periods when the PSE ducts and vaults are actively being installed and when the PSE line crew is performing installation, energization, cut-over and removal work. Attendance at additional meetings that may be requested/required during other periods will be addressed by a Cost Estimate Revision.
7. Traffic control provided by PSE assumes the use of two flaggers, basic signage and simple channelization. Additional traffic control measures are not included and if requested/required will be addressed by a Cost Estimate Revision.
8. Work to be performed by PSE does not include installation and/or removal of Temporary Service facilities at the request of others during construction.
9. Cut-over and transfer work will be completed during regular working hours except as described in Schedule Assumption #3 below. Changes in the performance of this work will be addressed by a Cost Estimate Revision.
10. New guy anchors shall be installed prior to installation of new ducts in the same area.
11. When Fluidized Thermal Backfill (FTB) is used, associated cost will be allocated 100% to PSE when required for a Company Initiated Upgrade and otherwise 100% to the City.
12. Installation of protective bollards may be necessary at some locations and may not be included in the project design. In the event unplanned bollards are required, associated costs will be a Shared Cost and addressed by a Cost Estimate Revision.

## **Schedule**

1. There will be a total of two (2) PSE crew mobilizations as follows: i) one mobilization of an underground line crew for installation of underground conductors and equipment; and ii) one mobilization of an overhead line crew for removal of the existing overhead facilities. Once mobilized PSE crews will have continuous productive work until all PSE Construction Work is complete.
2. All PSE Construction Work will be performed during regular working hours from 7AM-3:30PM excluding holidays. In the event that lane closures are necessary for performance of work, PSE shall be limited to working between the hours of 7AM-3:30PM. PSE and the City will mutually agree to weekly work schedules for the Construction Work. PSE shall be allowed to perform PSE work as scheduled without changes or interruptions caused by other construction activities.
3. PSE customers within the Conversion Area will experience interruption of electric service during performance of the Construction Work when cutting over and transferring system and customer loads from the overhead distribution system to the Underground Distribution System. Cut-over and transfer work will be performed during the regular working hours specified in Schedule Assumption #2 above except as otherwise provided below. PSE will notify customers at least two (2) business days in advance of scheduled service interruptions.

### **Cut-over & Transfer Work Outside of Regular Working Hours**

700 Israel RD SW Tumwater High School Service

7023 New Market ST SW Tumwater Timberland Library Service

555 Israel RD SW Tumwater City Hall Service

311 Israel RD SW Tumwater Fire Department Service

## **Additional Considerations**

### **Service Lines**

Service lines within the Conversion Area must be modified or replaced to provide underground service from the Underground Distribution System as described in Construction Drawings. Performance of the work and associated costs shall be governed by PSE Tariff Schedule 85.

723 Israel RD SW Tumwater, WA 98501

631 Israel Rd SW B Tumwater, WA 98501

631 Israel Rd SW D Tumwater, WA 98501

631 Israel Rd SW H Tumwater, WA 98501

631 Israel Rd SW C Tumwater, WA 98501

631 Israel Rd SW A Tumwater, WA 98501

6945 6th Ave SW Tumwater, WA 98501

City of Tumwater

SCH74 ISRAEL RD SW Underground Conversion

101156946

6935 6th Ave SW Tumwater, WA 98501

**Customer Owned Conductor to be Re-Routed into new transformer at V02**

631 Israel Rd SW B Tumwater, WA 98501

631 Israel Rd SW D Tumwater, WA 98501

631 Israel Rd SW H Tumwater, WA 98501

631 Israel Rd SW C Tumwater, WA 98501

631 Israel Rd SW A Tumwater, WA 98501

6945 6th Ave SW Tumwater, WA 98501

6935 6th Ave SW Tumwater, WA 98501

**New Service**

Connection of new or increased load for City facilities (such as new traffic signals) under terms of PSE Tariff Schedule 85 will be addressed on a separate work order and work sketch. Additional costs may apply and will be quoted separately.

**PSE Design & Construction Standards**

This Conversion Project has been designed and will be constructed in accordance with PSE design and construction standards in effect as of the date of this Project Plan. PSE standards applicable to Construction Work to be performed by the City have been provided to the City in PSE's "Electric Distribution Trench/Duct/Vault Construction Standards, 2013". All relevant PSE standard described above are attached to this Project Plan by this reference.

**Temporary Support (Holding) of PSE Poles**

Whenever any pole(s) are required to be temporarily supported (held) due to excavation in proximity to such poles, the City will coordinate with PSE to provide such support. The need to temporarily support such poles shall be determined by PSE, and if required, such support shall be provided by PSE. As used herein, "temporary support" means supporting one or more poles for a continuous working period of ten hours or less.



## Project Costs

Activity: PSE Order #:	PSE Design Cost		PSE Construction Cost Estimate		Customer Installed Duct and Vault		Change Orders	
	101156946		101156946		101156946			
	Customer Cost	40%	Customer Cost	40%	PSE Cost Share	60%		
PSE Materials				\$353,689.64				
PSE Construction Labor				\$ 255,189.60			Customer Obligation	\$0.00
PSE Project Management		\$17,817.70		\$5,352.36			PSE Obligation	\$0.00
PSE Inspection				\$ 35,978.19				
PSE Overheads		\$20,648.58		\$189,531.58				
Federal Income Tax		\$3,021.37		\$65,958.29				
Total Actual Costs:		\$ 41,487.65		\$ 905,699.66		0		
Date: 4/5/2018				TOTAL PROJECT VALUE:			\$947,187.31	
				CITY OF TUMWATER Obligation Incl/CO's:			\$378,874.93	
				CITY OF TUMWATER Credit for D+V:			\$0.00	
				PSE Billable Amount to Customer			\$378,874.93	

## *Acceptance of Project Plan*

The City and PSE mutually agree to and accept this Project Plan as of the date indicated below:

For the City:

For PSE:

By: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

Its: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_