

From: Jean Jewell
Sent: Tuesday, March 31, 2015 3:08 PM
To: Anga Velasquez
Subject: FW: Avista Advice No. 15-01-E

AVU-E-15-03

From: Kimball, Paul [<mailto:Paul.Kimball@avistacorp.com>]
Sent: Tuesday, March 31, 2015 3:00 PM
To: Jean Jewell
Cc: Ehrbar, Pat; Miller, Joe
Subject: Avista Advice No. 15-01-E

Dear Ms. Jewell:

Advice No. ADV 15-01-E

Attached for filing with the Commission is an electronic copy of the Company's proposed revisions to the following tariff sheets, I.P.U.C. No. 28:

Third Revision Sheet 51	Canceling	Second Revision Sheet 51
Second Revision Sheet 51A	Canceling	First Revision Sheet 51A
Third Revision Sheet 51C	Canceling	Second Revision Sheet 51C
Seventeenth Revision Sheet 51D	Canceling	Sixteenth Revision Sheet 51D
Eighteenth Revision Sheet 51E	Canceling	Seventeenth Revision Sheet 51E
Sixteenth Revision Sheet 51F	Canceling	Rep. Fifteenth Revision Sheet 51F
Seventeenth Revision Sheet 51G	Canceling	Rep. Sixteenth Revision Sheet 51G
Fifteenth Revision Sheet 51H	Canceling	Rep. Fourteenth Revision Sheet 51H
Second Revision Sheet 51I	Canceling	First Revision Sheet 51I
Third Revision Sheet 51J	Canceling	Rep. Second Revision Sheet 51J
Second Revision Sheet 51K	Canceling	First Revision Sheet 51K
Second Revision Sheet 51L	Canceling	First Revision Sheet 51L
First Revision Sheet 51M	Canceling	Original Sheet 51M
Sixteenth Revision Sheet 51N	Canceling	Rep. Fifteenth Revision Sheet 51N
Sixteenth Revision Sheet 51O	Canceling	Fifteenth Revision Sheet 51O

The tariff sheets listed above are being filed to update the Company's Electric Line Extension Schedule 51 to reflect 2014 average costs and are proposed to become effective May 18, 2015. Also attached are a copy of the Company's workpapers.

Please direct any questions related to this filing to Pat Ehrbar at 509.495.8620 or Joe Miller at 509.495.4546.

Please let me know if you have any questions

Thanks,

Paul Kimball

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March 31, 2015

AVU-E-15-03

Jean D. Jewell, Secretary
Idaho Public Utilities Commission
P O Box 83720
Boise, ID 83720-0074

Dear Ms. Jewell:

Advice No. ADV 15-01-E

Attached for filing with the Commission is an electronic copy of Avista's proposed revisions to the following tariff sheets, I.P.U.C. No. 28:

Third Revision Sheet 51	Canceling	Second Revision Sheet 51
Second Revision Sheet 51A	Canceling	First Revision Sheet 51A
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First Revision Sheet 51M	Canceling	Original Sheet 51M
Sixteenth Revision Sheet 51N	Canceling	Rep. Fifteenth Revision Sheet 51N
Sixteenth Revision Sheet 51O	Canceling	Fifteenth Revision Sheet 51O

The revisions to the tariff sheets listed above update the Company's Electric Line Extension Schedule 51 and are proposed to become effective May 18, 2015. The Company has updated line extension costs based on updates to the Company's construction & material standards and actual average costs of all material and labor used in line extensions during 2014. The Company is not proposing to update its line extension allowances as a part of this filing.¹

The primary driver of cost differences from the Company's 2014 filing is related to the Company's recent implementation of its new work and asset management system (Maximo).

¹ Per Commission order, the Company will update its line extension allowances as part of its annual Schedule 51 filing at the conclusion of the Company's next general rate case.

Work and Asset Management Application “Maximo” – On February 7, 2015, Avista implemented its new work and asset management application referred to as Maximo. The Maximo application is used to create orders for service and emergency calls and for construction jobs for customers and Company operations. The Maximo application compares job estimates to actual job costs, which provides ongoing feedback to adjust compatible unit (CU) data for actual labor and tool costs as they are incurred. Prior to Maximo, the Company relied on engineering estimates, captured in Excel spreadsheets, to estimate average job costs under Schedule 51. The Maximo application we believe provides data that is more precise and reflective of the actual costs the Company has recently experienced, and therefore provides a better basis for setting Schedule 51 costs.

Residential Developments – Residential development costs, updated for the most current construction & material standards and average 2014 construction costs are detailed below.

<u>Residential Developments</u>	<u>Present</u>	<u>Proposed</u>
Total Cost per Lot	\$ 1,596	\$ 1,705
Less: Service Cost	<u>\$ 485</u>	<u>\$ 417</u>
Developer Responsibility	<u>\$ 1,111</u>	<u>\$ 1,288</u>
Developer Refundable Payment	\$ 1,111	\$ 1,288
Builder Payment	\$ 46	\$ 155
Allowance	\$ 1,550	\$ 1,550

Other Items – The Company has also made minor modifications to the language in Schedule 51. These include:

- (1) On 3rd Revision Sheet 51C, the Company removed language related to the calculation of the exceptional costs for overhead extensions longer than 1500 feet. The Company believes that the application of exceptional costs to the overall project cost should be the same for all customers. The current method (which has been confusing for customers and Company employees to understand) shifts costs, albeit a minimal amount, to all customers instead of the customer requesting service. By removing this section, any exceptional costs estimated for a specific project would be assigned fully to that project.
- (2) On 1st Revision Sheet 51M, the Company has removed from its tariff costs related to Three-Phase Primary. Three-phase service, in the Company’s judgment, does not lend itself to be charged out on an average cost basis. These types of projects are not as homogenous as single-phase, residential type jobs. Currently, the costs associated with secondary, service, and transformer costs for three-phase are individually estimated based on the specific project. The Company therefore believes that estimating those costs on a site specific basis is a more reasonable and fair approach for those customers.

The other language changes included in the tariffs are housekeeping in nature.

Avista Advice No. ADV 15-01-E
Schedule 51 Revisions
March 31, 2015

Enclosed is a copy of the workpapers supporting the line extension cost revisions contained in the proposed tariff sheets. In addition, during the week of April 1, 2015, the Company will send a letter to those developers and builders that may be affected by the proposed changes to inform them of the Company's request.

Should you have any questions regarding this filing, please contact Patrick Ehrbar at 509.495.8620 or Joe Miller at 509.495.4546.

Sincerely,

A handwritten signature in black ink, appearing to read 'DMeyer', with a large, stylized initial 'D' on the left.

David Meyer
Vice President and Chief Counsel for
Regulatory and Governmental Affairs

Enclosures

IDAHO

Advice No. AVU-15-01-E

**Avista 2015 Schedule 51
Filing**

Tariff Sheets - Clean

AVISTA CORPORATION
dba Avista Utilities

SCHEDULE 51
LINE EXTENSION, CONVERSION AND RELOCATION SCHEDULE
IDAHO

1. APPLICABILITY

The rules for Line Extensions in this Schedule apply to all existing and prospective Customers requesting a new line extension.

The rules for Conversions and Relocations in this Schedule apply to all Customers requesting changes to existing facilities.

2. GENERAL RULES:

- a. Every Customer who wants the Company to design a line extension must first submit a written application. A Design Fee of \$150 is required for any line extension, Conversion of Primary Circuit, or Relocation of Primary Circuit, that is unusually large, complex, or of a questionable nature, and for each additional design requested. Design Fees are not refundable, but the one Design Fee for the first design, if paid, will be credited against the cost of the construction.
- b. The Company shall have the right to enter and exit the Customer's property to construct, reconstruct, operate and maintain the line extension. The Company's agents and employees shall have access at all reasonable times for reading, inspecting, constructing, reconstructing, repairing and removing the Company's meters, metering equipment and electric facilities.
- c. All necessary right-of-way assignments, easements and permits across other properties will be secured at no cost before the Company constructs the line extension.
- d. The length, depth, Point of Delivery, location, route, phases, voltage, capacity and cost of the Line Extension shall be determined by the Company. The line extension shall be compatible with existing neighboring electric facilities.
- e. Premises where the Company's electric facilities have been removed or otherwise disconnected for longer than twelve months, and where a customer wants service re-established, will be treated as a new customer and granted an allowance.

Issued March 31, 2015

Effective May 18, 2015

Issued by Avista Utilities

By

Kelly Norwood, Vice President – State & Federal Regulation



AVISTA CORPORATION
dba Avista Utilities

SCHEDULE 51 - continued

3. RULES FOR INDIVIDUAL RESIDENTIAL CUSTOMERS

- a. Both the General Rules and the following rules apply to line extensions to serve individual Residential Customers.
- b. Before the start of construction, the Customer must submit a written application for service and pay an extension cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
-	Allowance
+	Customer-Requested Costs
-	Cost Reductions
-	(one) Design Fee of \$150 (if paid)
+	Share of Previous Extension
<hr/>	
=	extension cost

- 1) "Basic Cost" is the cost of the Service Circuit, Secondary Circuit, Transformer and Primary Circuit computed from the rates listed in this Schedule. The meters and metering facilities used by the Company for billing purposes are provided at no cost to the Customer.
- 2) "Cost Reduction" is a decrease allowed when the Company uses lower-cost construction methods or allows the Customer to do some of the work. All facilities provided by the Customer must meet or exceed the Company's specifications.
- 3) "Allowance" is a credit to each Customer who has at least 2500 kWh per year of new load. The Allowance will be applied first to the Basic Cost of the Service Circuit, second to the Basic Cost of the Secondary Circuit, third to the Basic Cost of the Transformer and fourth to the Basic Cost of the Primary Circuit.

Issued March 31, 2015

Effective May 18, 2015

Issued by Avista Utilities

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SCHEDULE 51 - continued

If an immediate Allowance is not granted because electric consumption is expected to be less than 2500 kWh per year, but the Customer can demonstrate after the end of the fifth year that the annual electric consumption was at least 2500 kWh each year for all five years, then the Company will refund to the Customer the Basic Cost plus any Exceptional Costs, or the amount of the Allowance in effect at the time of the line construction, whichever is less. The Customer must apply for the refund before the line extension becomes six years old.

If an immediate Allowance is not granted because the Customer is not prepared for a permanent service connection upon completion of the line extension, but the Customer does request a permanent connection within the next five years, and will have consumption of at least 2500 kWh per year, the Company will at that time refund to the Customer the Basic Cost plus any Exceptional Costs, or the amount of the Allowance in effect at the time of the line construction, whichever is less.

- 4) "Exceptional Cost" is the cost of labor and/or materials which are necessary to construct the Line Extension but which are not reflected in the Basic Costs, including, but not limited to the following:
- a) trenching costs in excess of dirt trench
 - b) sand padding
 - c) soil compaction on public right-of-way
 - d) boring or jacking under roads or rails
 - e) pavement removal and replacement
 - f) rights of way
 - g) permits
 - h) surveying
 - i) removal of trees and shrubs, or restoration of Customer property in excess of the replacement of sod and general cleanup.

Issued March 31, 2015

Effective May 18, 2015

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Kelly Norwood

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SCHEDULE 51 - continued

- 5) "Customer-Requested Cost" is the cost of unusual labor and/or materials which is requested by the Customer but which is not necessary to construct the Line Extension based on the Company's minimum design, construction, and operating practices. All Customer-Requested Costs must be paid in full by the Customer. Customer-Requested Costs may include, but are not limited to, the following:
- a) facilities to provide three-phase service where single-phase service is adequate
 - b) construction which is not for electric service
 - c) facilities longer, deeper, or larger than deemed appropriate by the Company
 - d) underground facilities in overhead areas
 - e) soil compaction on private property

Issued March 31, 2015

Effective May 18, 2015

Issued by Avista Utilities

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SCHEDULE 51 - continued

- 6) "Share of Previous Extension" applies only to Primary Circuits less than five years old. If part of a previous line extension is used to serve a new Customer, the new Customer must pay a share of the previous Primary Circuit cost and Transformer cost, if shared, to the Company before the start of construction. The amount paid by the new Customer will be refunded to existing Customers in relation to their share of the Primary Circuit and Transformer, if shared. The Company will refund appropriate shares to the bearers of Extension Certificates when the Certificates are presented for payment and the connection of the subsequent Customer has been verified. The Company will make a reasonable attempt to inform the bearer of the Certificate when a refund is due. Bearers of Extension Certificates must apply for refunds before the original line extension becomes six years old. Unclaimed refunds will be returned to the contributor.

EXAMPLE:

1. First Customer pays \$9,910 for 1,000 feet of primary underground circuit (\$9.91 per foot).
2. Second Customer takes service within five years using 600 feet of the original extension.
3. Both Customers share the first 600 feet equally:
 $600 \text{ ft} \times \$9.91/\text{ft} \times \frac{1}{2} = \$2,973$.
4. The Second Customer's payment of \$2,973 will be refunded to the First Customer to reduce his investment in the 600 feet to \$2,973. The First Customer's investment in the remaining 400 feet remains at \$3,964. ($\$9,910 - \$2,973 - \$2,973 = \$3,964$)

EXCEPTION: If the refund to an existing Customer is less than \$100 each, the new Customer will not be required to pay that share and the existing Customer will not receive a refund.

Issued March 31, 2015

Effective May 18, 2015

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Kelly Norwood

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SCHEDULE 51 - continued

4. RULES AND CHARGES FOR UNDEVELOPED RESIDENTIAL LOTS

a. A development is a group of neighboring undeveloped lots separated by no more than streets and under the ownership or legal control of a single party as determined by the Company. Both the General Rules and the following rules apply to line extensions within residential developments.

b. Before Company facilities will be installed, the developer must submit a written application for service, a copy of the plat as approved by the governing agency depicting dedicated utility easements approved by the serving utilities and must pay an extension cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
+	Customer-Requested Costs
-	Cost Reductions
-	(one) Design Fee of \$150 (if paid)
=	extension cost within development
+	cost of extension to development
+	<u>Share of Previous Extension</u>
=	extension cost

1) "Basic Cost" will be computed from the following rate per lot when the Development serves single phase loads, has at least six lots and the average frontage is no more than 175 feet per lot. The Basic Cost includes the cost of the Primary Circuit, the Transformer and the Secondary Circuit in the utility easement or public right-of-way, but does not include the Service Circuit from the point of connection with the Secondary Circuit to the Point of Delivery.

Developments: \$1,288 per Lot

Issued March 31, 2015

Effective May 18, 2015

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SCHEDULE 51 - continued

The Basic Cost for all other Developments will be computed from the rates listed in this Schedule for Service Circuits, Secondary Circuits, Transformers and Primary Circuits.

- 2) "Cost Reductions," "Exceptional Costs", "Customer-Requested Costs, and "Share of Previous Extension" are described under Rules for Individual Customers.
 - 3) "Extension to development" is the line extension between the Company's existing energized electric facilities and the boundary of the development. The Rules for Individual Customers apply to the extension to the development.
- c. In lieu of a cash payment of the Basic Cost in a Development, the Company will accept a letter of credit, a contractor's performance bond, or another credit instrument agreeable to the Company for \$1,288 per lot upon execution of a written agreement with the Developer. The agreement shall prescribe the requirements for such a credit instrument and shall permit the face amount of the instrument to be reduced annually as new customers are connected within the Development. The Developer will provide ditching within the Development.
- d. Prior to installation of the Service Circuit to each single-family residence in a development, the home builder will be required to make a non-refundable cash payment to the Company of \$155 per residence. There will be no charge to the builder for the installation of the Service Circuit to serve a duplex or multiplex dwelling.
- e. A Developer who pays the extension cost described in 4.b.1) may apply for a refund annually for each permanent Customer connected within the Development during the first five years after the extension is completed. The Company will make a reasonable attempt to inform the bearer of the certificate when a refund is due. The Company will pay the refund to the bearer of the Extension Certificate when it is presented to the Company for payment and the connection of the permanent Customer has been verified.

Issued March 31, 2015

Effective May 18, 2015

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SCHEDULE 51 - continued

For Developers who have made a cash payment to the Company for the Basic Cost in the development, the sum of all refunds shall not exceed the total Basic Cost paid by the Developer or \$1,288 per lot multiplied by the number lots, whichever is less. The developer must apply for the refunds before the line extension becomes six years old.

- f. In a Development where primary taps may be required into some lots to provide adequate service or where the loads are not clearly defined, the Company may elect to install only an initial Primary Circuit through the Development (no Transformers or Secondary Circuits). The Rules for Individual Customers will be used to establish the extension cost of the Primary Circuit and that cost must be paid in advance by the Developer.

The permanent Customer on each lot must meet the Rules for Individual Residential Customers for the extension into the lot, except they will not pay a share of the cost of the Primary Circuit through the Development or a share of previous extensions outside the Development. The applicable Allowance will be credited first to the Basic Cost to serve the permanent Customer. The Developer will be refunded only the portion of the Allowance not granted or applied to the permanent Customer.

Issued March 31, 2015

Effective May 18, 2015

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SCHEDULE 51 - continued

5. RULES FOR COMMERCIAL AND INDUSTRIAL CUSTOMERS

- a. Both the General Rules and the following rules apply to Line Extensions to serve individual Commercial and Industrial Customers.
- b. Single-Phase Extensions: For Customers who may be served at single phase, as determined by the Company, before the start of construction, the Customer must submit a written application for service and pay an extension cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
-	Allowance
+	Customer-Requested Costs
-	Cost Reductions
-	(one) Design Fee of \$150 (if paid)
+	Share of Previous Extension
<hr/>	
=	extension cost

- 1) All terms are described in Section 3.b. and the Basic Costs are set forth in Section 7. The amount of the Allowance will be determined individually for each Customer based on the Company's estimate of the Customer's annual energy usage and an allowance per kWh based on the applicable service schedule.

Issued March 31, 2015

Effective May 18, 2015

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Kelly Norwood, Vice-President – State & Federal Regulation



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SCHEDULE 51 – continued

- c. When two or more Customers apply concurrently for service from the same Line Extension, each will receive an Allowance up to their proportion of the Total Estimated Extension Cost. Allowances shall be granted only against the costs of the current project and not against any part of an earlier or future extension.

The Allowance will be the Total Estimated Extension Cost, or the applicable Allowance by Schedule multiplied by the Customer's estimated energy usage, whichever is less:

ALLOWANCE BY SERVICE SCHEDULE

Schedule 11 or 12: \$0.12868 per kWh

Schedule 21 or 22: \$0.11874 per kWh

Schedule 31 or 32: \$0.19279 per kWh

Exception: The Company will not grant an immediate Allowance if the Company, in its sole judgement, determines that the load will be in service less than five years.

Undeveloped Commercial and Industrial Lots: A development is a group of neighboring undeveloped lots separated by no more than streets and under the ownership or legal control of a single party as determined by the Company. The General Rules, the Rules for Commercial and Industrial Customers and the following apply to line extensions within commercial or industrial developments. Before Company facilities will be installed, the developer must submit a written application for service and a copy of the plat as approved by the governing agency depicting dedicated utility easements approved by the serving utilities.

Issued March 31, 2015

Effective May 18, 2015

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SCHEDULE 51 - continued

- d. A developer requesting a Line Extension to one or more undeveloped commercial or industrial lots, where the future occupant and estimated energy usage are unknown, will be required to pay to the Company in advance all costs associated with such Line Extension. Such Line Extension will be referred to as the Developer portion of the Line Extension and may include only a Primary Circuit. The subsequent Customer requesting completion of the Line Extension to the facility will be granted an Allowance based upon the estimated energy usage of the facility. The Allowance will be applied first to the Customer portion of the Line Extension and any remaining Allowance may be applied to the Developer portion of the Line Extension. If the Allowance exceeds the Customer portion of the Line Extension, the developer will be entitled to a refund of such excess amount, not to exceed the total advance which was paid to the Company. The developer may apply for a refund for each permanent Customer connected within the development during the first five years following completion of the Developer portion of the Line Extension. The Company will make a reasonable attempt to inform the developer when a refund is due.

6. RULES FOR CONVERSIONS AND RELOCATIONS

Both the General Rules and the following rules apply to all requests to convert overhead facilities to underground or to change the location of overhead or underground facilities. Construction to replace electric facilities which were disconnected or removed at the customer's request within the last 12 months will be treated as a Conversion or a Relocation and will not be granted an Allowance.

- a. All requests to convert or relocate electric facilities will be considered only when the Company, in its sole judgment, determines that they are feasible and compatible with existing neighboring electric facilities and when the requesting party has paid any Design Fees required.

Issued March 31, 2015

Effective May 18, 2015

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AVISTA CORPORATION
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SCHEDULE 51 - continued

b. Before construction starts, the party requesting a Conversion or Relocation must pay a conversion or relocation cost to the Company which is computed as follows:

- Basic Cost
 - + Exceptional Costs
 - + Customer Requested Costs
 - Cost Reductions
 - = new line cost
 - + Removal Costs
 - Salvage Value
 - (one) Design Fee of \$150 (if paid)
-
- = conversion or relocation cost

EXCEPTION: If the Customer is adding load and the load increase would require the Company to add or modify facilities at its expense, the conversion or relocation cost will be reduced by the estimated cost of such modification.

- 1) "New Line Cost" is the cost of the new line extension in accordance with the Rules for Individual Customers, except no Allowance will be credited to the cost.
- 2) "Removal Cost" is the cost of the labor, overheads and use of equipment required to remove the existing facilities.
- 3) "Salvage Value" is the value to the Company of the materials removed from the existing facilities.

7. DEFINITIONS AND CHARGES (listed alphabetically)

a. "Customer" is any individual, partnership, corporation, association, governmental agency, political subdivision, municipality or other entity.

Issued March 31, 2015

Effective May 18, 2015

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Kelly Norwood, Vice-President – State & Federal Regulation



AVISTA CORPORATION
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SCHEDULE 51 - continued

- b. "Dedicated Utility Easements" are designated strips or locations within the platted development which have been approved by the serving utility companies and the local government planning department and are dedicated to the serving utility companies for the purpose of construction, reconstruction, maintenance and operation of utilities, including the inspection of those utilities at reasonable times and the trimming or removal of brush and trees that may interfere with the construction, maintenance or operation of those utilities.
- c. "Design Fee" is a \$150.00 payment to the Company by the Customer requesting a Line Extension, Conversion, or Relocation, in advance of the Company preparing the design. An initial Design Fee will be collected for any Line Extension, Conversion of Primary Circuit, or Relocation of Primary Circuit that is unusually large, complex, or of a questionable nature. Design Fees will be collected for additional designs if the Customer requests more than one design.
- d. "Extension Certificate" is a transferable certificate which entitles the bearer to receive certain refunds. Certificates will be issued to all Customers paying for a Primary Circuit, including Developers. The conditions under which refunds will be paid are described in this Schedule and on the Certificate.
- e. "Point of Delivery" is the location on the Customer's premises where the Company's service conductors and the Customer's service entrance conductors are connected at a common point to permit a single meter installation. The Point of Delivery will be designated by the Company.
- f. "Primary Circuit" is the electrical facility between the Company's existing energized primary facilities and the proposed Transformer. The Primary Circuit is single phase, is operated at 2400 to 20,000 volts to ground and may include conductors, connectors, supporting structures, conduit and ditch. The Basic Cost of the Primary Circuit shall be computed using the following rates.

Issued March 31, 2015

Effective May 18, 2015

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SCHEDULE 51 - continued

Single-Phase
Overhead Primary Circuit:

Fixed Costs:	\$3,926 per Customer
Variable Costs:	\$7.63 per foot

Underground Primary Circuit:

Fixed Costs:	\$1,737 per Customer
Variable Costs:	\$9.91 per foot

- g. "Secondary Circuit" is the electrical facility from the Company's Transformer to a handhole or connectors from which one or more Service Circuits originate. The Secondary Circuit is single phase, is operated at less than 600 volts to ground and may include conductors, connectors, conduit, handholes, and ditch. The Basic Cost of the Secondary Circuit shall be computed using the following rates.

Single Phase Underground Secondary Circuit:

Fixed Costs:	\$376 per customer
Variable Costs:	\$9.23 per foot

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Kelly Norwood

AVISTA CORPORATION
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SCHEDULE 51 - continued

- h. "Service Circuit" is the electrical facility between the Company's Transformer, connectors, or handhole and the Point of Delivery for a single Customer or building. The Service Circuit is single phase*, is operated at less than 600 volts to ground and may include conductors, connectors, conduit, and ditch. The Basic Cost of the Service Circuit shall be computed using the following rates. These rates do not include meters and metering facilities which are used by the Company for billing purposes.

Single Phase Overhead Service Circuit:

Variable Costs: \$3.08 per foot

Single Phase Underground Service Circuit:

Variable Costs: \$8.33 per foot

- i. "Transformer" Basic Cost shall be computed using the following rates for single phase transformers.

Single Phase Overhead Transformer Costs: \$2,296 per Customer

Single Phase Padmount Transformer Costs: \$2,983 per Customer

- j. "Underground Facilities" may include primary cable, secondary and service cable, secondary and service connections, surface-type (padmount) Transformers, pads, enclosures, terminations, and conduit where necessary. These facilities will be owned, operated and maintained by the Company unless otherwise provided for by agreement.

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Kelly Norwood, Vice President – State & Federal Regulation



IDAHO

Advice No. AVU-15-01-E

**Avista 2015 Schedule 51
Filing**

Tariff Sheets – Legislative

AVISTA CORPORATION
dba Avista Utilities

SCHEDULE 51
LINE EXTENSION, CONVERSION AND RELOCATION SCHEDULE
IDAHO

1. APPLICABILITY

The rules for Line Extensions in this Schedule apply to all existing and prospective Customers requesting a new line extension.

The rules for Conversions and Relocations in this Schedule apply to all Customers requesting changes to existing facilities.

2. GENERAL RULES:

- a. Every Customer who wants the Company to design a line extension must first submit a written application. A Design Fee of \$18550 is required for any line extension, Conversion of Primary Circuit, or Relocation of Primary Circuit, that is unusually large, complex, or of a questionable nature, and for each additional design requested. Design Fees are not refundable, but the one Design Fee for the first design, if paid, will be credited against the cost of the construction.
- b. The Company shall have the right to enter and exit the Customer's property to construct, reconstruct, operate and maintain the line extension. The Company's agents and employees shall have access at all reasonable times for reading, inspecting, constructing, reconstructing, repairing and removing the Company's meters, metering equipment and electric facilities.
- c. All necessary right-of-way assignments, easements and permits across other properties will be secured at no cost before the Company constructs the line extension.
- d. The length, depth, Point of Delivery, location, route, phases, voltage, capacity and cost of the Line Extension shall be determined by the Company. The line extension shall be compatible with existing neighboring electric facilities.
- e. Premises where the Company's electric facilities have been removed or otherwise disconnected for longer than twelve months, and where a customer wants service re-established, will be treated as a new customer and granted an allowance.

Issued February 21, 2005

Effective March 25, 2005

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

AVISTA CORPORATION
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SCHEDULE 51 - continued

3. RULES FOR INDIVIDUAL RESIDENTIAL CUSTOMERS

- a. Both the General Rules and the following rules apply to line extensions to serve individual Residential Customers.
- b. Before the start of construction, the Customer must submit a written application for service and pay an extension cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
-	Allowance
+	Customer-Requested Costs
-	Cost Reductions
-	(one) Design Fee of \$18550 (if paid)
+	Share of Previous Extension
<hr/>	
=	extension cost

- 1) "Basic Cost" is the cost of the Service Circuit, Secondary Circuit, Transformer and Primary Circuit computed from the rates listed in this Schedule. The meters and metering facilities used by the Company for billing purposes are provided at no cost to the Customer.
- 2) "Cost Reduction" is a decrease allowed when the Company uses lower-cost construction methods or allows the Customer to do some of the work. All facilities provided by the Customer must meet or exceed the Company's specifications.
- 3) "Allowance" is a credit to each Customer who has at least 2500 kWh per year of new load. The Allowance will be applied first to the Basic Cost of the Service Circuit, second to the Basic Cost of the Secondary Circuit, third to the Basic Cost of the Transformer and fourth to the Basic Cost of the Primary Circuit.

Issued January 29, 2001

Effective February 15, 2001

Issued by Avista Utilities
By

Thomas D. Dukich, Manager, Rates & Tariff Administration

AVISTA CORPORATION
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SCHEDULE 51 - continued

If an immediate Allowance is not granted because electric consumption is expected to be less than 2500 kWh per year, but the Customer can demonstrate after the end of the fifth year that the annual electric consumption was at least 2500 kWh each year for all five years, then the Company will refund to the Customer the Basic Cost plus any Exceptional Costs, or the amount of the Allowance in effect at the time of the line construction, whichever is less. The Customer must apply for the refund before the line extension becomes six years old.

If an immediate Allowance is not granted because the Customer is not prepared for a permanent service connection upon completion of the line extension, but the Customer does request a permanent connection within the next five years, and will have consumption of at least 2500 kWh per year, the Company will at that time refund to the Customer the Basic Cost plus any Exceptional Costs, or the amount of the Allowance in effect at the time of the line construction, whichever is less.

- 4) "Exceptional Cost" is the cost of labor and/or materials which are necessary to construct the Line Extension but which are not reflected in the Basic Costs, including, but not limited to the following:
- a) trenching costs in excess of dirt trench
 - b) sand padding
 - c) soil compaction on public right-of-way
 - d) boring or jacking under roads or rails
 - e) pavement removal and replacement
 - f) rights of way
 - g) permits
 - h) surveying
 - i) removal of trees and shrubs, or restoration of Customer property in excess of the replacement of sod and general cleanup.
 - ~~j) overhead extensions longer than 1500 feet (which shall be determined using the following example):~~

Issued May 3, 2010

Effective June 7, 2010

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

AVISTA CORPORATION
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SCHEDULE 51 - continued

EXAMPLE:

~~For a single phase primary overhead extension of 2310 feet:~~

~~1. The Basic Cost is calculated from the charges in section 7.~~

~~a. $\$4,216 + (\$7.92 \text{ per ft} \times 2310 \text{ ft.}) = \$22,511.$~~

~~b. The average Basic Cost is $\$22,511/2310 \text{ ft} = \9.75 per ft.~~

~~2. Exceptional Cost:~~

~~a. If the cost estimate from the extension drawing is \$23,000, the average estimated primary cost is $\$23,000/2310 \text{ ft} = \9.96 per ft.~~

~~b. The Exceptional Cost for a long extension is the difference between the estimated cost and the tariffed cost for the length greater than 1500 ft:
 $EC = (\$9.96 - \$9.75) \times (2310 \text{ ft} - 1500 \text{ ft}) = \$170.$~~

~~3. Total Primary Cost~~

~~a. The Customer's primary extension cost is $\$22,511 + \$170 = \$22,681.$~~

~~b. The total extension cost is calculated by combining all Basic Costs, Exceptional Costs, Allowance, Cost Reductions and Share of Previous Extension for the extension.~~

5) "Customer-Requested Cost" is the cost of unusual labor and/or materials which is requested by the Customer but which is not necessary to construct the Line Extension based on the Company's minimum design, construction, and operating practices. All Customer-Requested Costs must be paid in full by the Customer. Customer-Requested Costs may include, but are not limited to, the following:

- a) facilities to provide three-phase service where single-phase service is adequate
- b) construction which is not for electric service
- c) facilities longer, deeper, or larger than deemed appropriate by the Company
- d) underground facilities in overhead areas
- e) soil compaction on private property

Issued March 14, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

AVISTA CORPORATION
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SCHEDULE 51 - continued

- 6) "Share of Previous Extension" applies only to Primary Circuits less than five years old. If part of a previous line extension is used to serve a new Customer, the new Customer must pay a share of the previous Primary Circuit cost and Transformer cost, if shared, to the Company before the start of construction. The amount paid by the new Customer will be refunded to existing Customers in relation to their share of the Primary Circuit and Transformer, if shared. The Company will refund appropriate shares to the bearers of Extension Certificates when the Certificates are presented for payment and the connection of the subsequent Customer has been verified. The Company will make a reasonable attempt to inform the bearer of the Certificate when a refund is due. Bearers of Extension Certificates must apply for refunds before the original line extension becomes six years old. Unclaimed refunds will be returned to the contributor.

EXAMPLE:

1. First Customer pays \$9,580910 for 1,000 feet of primary underground circuit (\$9.5891 per foot).
2. Second Customer takes service within five years using 600 feet of the original extension.
3. Both Customers share the first 600 feet equally:
 $600 \text{ ft} \times \$9.5891/\text{ft} \times \frac{1}{2} = \$2,874973$.
4. The Second Customer's payment of \$2,874973 will be refunded to the First Customer to reduce his investment in the 600 feet to \$2,874973. The First Customer's investment in the remaining 400 feet remains at \$3,832964. ($\$9,580910 - \$2,874973 - \$2,874973 = \$3,832964$)

EXCEPTION: If the refund to an existing Customer is less than \$50100 each, the new Customer will not be required to pay that share and the existing Customer will not receive a refund.

Issued March 14, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

AVISTA CORPORATION
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SCHEDULE 51 - continued

4. RULES AND CHARGES FOR UNDEVELOPED RESIDENTIAL LOTS

- a. A development is a group of neighboring undeveloped lots separated by no more than streets and under the ownership or legal control of a single party as determined by the Company. Both the General Rules and the following rules apply to line extensions within residential developments.
- b. Before Company facilities will be installed, the developer must submit a written application for service, a copy of the plat as approved by the governing agency depicting dedicated utility easements approved by the serving utilities and must pay an extension cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
+	Customer-Requested Costs
-	Cost Reductions
-	(one) Design Fee of \$18550 (if paid)
=	extension cost within development
+	cost of extension to development
+	<u>Share of Previous Extension</u>
=	extension cost

- 1) "Basic Cost" will be computed from the following rate per lot when the Development serves single phase loads, has at least six lots and the average frontage is no more than 175 feet per lot. The Basic Cost includes the cost of the Primary Circuit, the Transformer and the Secondary Circuit in the utility easement or public right-of-way, but does not include the Service Circuit from the point of connection with the Secondary Circuit to the Point of Delivery. ~~Any Exceptional Costs involved with installation of the service must be paid by the party requesting the service.~~

Developments: ~~\$1,111~~ \$1,288 per Lot

Issued April 30, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

AVISTA CORPORATION
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SCHEDULE 51 - continued

The Basic Cost for all other Developments will be computed from the rates listed in this Schedule for Service Circuits, Secondary Circuits, Transformers and Primary Circuits.

- 2) "Cost Reductions," "Exceptional Costs," "Customer-Requested Costs," and "Share of Previous Extension" are described under Rules for Individual Customers.
 - 3) "Extension to development" is the line extension between the Company's existing energized electric facilities and the boundary of the development. The Rules for Individual Customers apply to the extension to the development.
- c. In lieu of a cash payment of the Basic Cost in a Development, the Company will accept a letter of credit, a contractor's performance bond, or another credit instrument agreeable to the Company for ~~\$4,111~~\$1,288 per lot upon execution of a written agreement with the Developer. The agreement shall prescribe the requirements for such a credit instrument and shall permit the face amount of the instrument to be reduced annually as new customers are connected within the Development. The Developer will provide ditching within the Development.
 - d. Prior to installation of the Service Circuit to each single-family residence in a development, the home builder will be required to make a non-refundable cash payment to the Company of ~~\$46~~\$155 per residence. There will be no charge to the builder for the installation of the Service Circuit to serve a duplex or multiplex dwelling.
 - e. A Developer who pays the extension cost described in 4.b.1) may apply for a refund annually for each permanent Customer connected within the Development during the first five years after the extension is completed. The Company will make a reasonable attempt to inform the bearer of the certificate when a refund is due. The Company will pay the refund to the bearer of the Extension Certificate when it is presented to the Company for payment and the connection of the permanent Customer has been verified.

Issued April 30, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

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SCHEDULE 51 - continued

For Developers who have made a cash payment to the Company for the Basic Cost in the development, the sum of all refunds shall not exceed the total Basic Cost paid by the Developer or ~~\$1,111~~\$1,288 per lot multiplied by the number lots, whichever is less. The developer must apply for the refunds before the line extension becomes six years old.

- f. In a Development where primary taps may be required into some lots to provide adequate service or where the loads are not clearly defined, the Company may elect to install only an initial Primary Circuit through the Development (no Transformers or Secondary Circuits). The Rules for Individual Customers will be used to establish the extension cost of the Primary Circuit and that cost must be paid in advance by the Developer.

The permanent Customer on each lot must meet the Rules for Individual Residential Customers for the extension into the lot, except they will not pay a share of the cost of the Primary Circuit through the Development or a share of previous extensions outside the Development. The applicable Allowance will be credited first to the Basic Cost to serve the permanent Customer. The Developer will be refunded only the portion of the Allowance not granted or applied to the permanent Customer.

Issued April 30, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

AVISTA CORPORATION
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SCHEDULE 51 - continued

5. RULES FOR COMMERCIAL AND INDUSTRIAL CUSTOMERS

- a. Both the General Rules and the following rules apply to Line Extensions to serve individual Commercial and Industrial Customers.
- b. Single-Phase Extensions: For Customers who may be served at single phase, as determined by the Company, before the start of construction, the Customer must submit a written application for service and pay an extension cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
-	Allowance
+	Customer-Requested Costs
-	Cost Reductions
-	(one) Design Fee of \$18550 (if paid)
+	Share of Previous Extension
<hr/>	
=	extension cost

- 1) All terms are described in Section 3.b. and the Basic Costs are set forth in Section 7. The amount of the Allowance will be determined individually for each Customer based on the Company's estimate of the Customer's annual energy usage and an allowance per kwWh based on the applicable service schedule.

- ~~c. Three-Phase Extensions: For Customers requiring three-phase service, as determined by the Company, before the start of construction, the Customer must submit a written application for service and pay an extension cost to the Company which is computed as follows:~~

_____	Total Estimated Extension Cost
_____	Allowance
+	Customer-Requested Costs
_____	Cost Reductions
_____	(one) Design Fee of \$185
+	Share of Previous Extension
=====	
=	extension cost

Issued January 29, 2001

Effective February 15, 2001

Issued by Avista Utilities
By

Thomas D. Dukich ,Manager Rates & Tariff Administration

AVISTA CORPORATION
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SCHEDULE 51 – continued

~~1) The Total Estimated Extension Cost shall include all costs which are necessary to provide service to the Customer, as determined by the Company. The amount of the Allowance will be determined individually for each Customer based on the Company's estimate of the Customer's annual energy usage and an allowance per kwh based on the applicable service schedule.~~

ec. When two or more Customers apply concurrently for service from the same Line Extension, each will receive an Allowance up to their proportion of the Total Estimated Extension Cost. Allowances shall be granted only against the costs of the current project and not against any part of an earlier or future extension.

The Allowance will be the Total Estimated Extension Cost, or the applicable Allowance by Schedule multiplied by the Customer's estimated energy usage, whichever is less:

ALLOWANCE BY SERVICE SCHEDULE

Schedule 11 or 12: \$0.12868 per kwWh
Schedule 21 or 22: \$0.11874 per kwWh
Schedule 31 or 32: \$0.19279 per kwWh

Exception: The Company will not grant an immediate Allowance if the Company, in its sole judgement, determines that the load will be in service less than five years.

Undeveloped Commercial and Industrial Lots: A development is a group of neighboring undeveloped lots separated by no more than streets and under the ownership or legal control of a single party as determined by the Company. The General Rules, the Rules for Commercial and Industrial Customers and the following apply to line extensions within commercial or industrial developments. Before Company facilities will be installed, the developer must submit a written application for service and a copy of the plat as approved by the

Issued April 30, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

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SCHEDULE 51 - continued

- d. governing agency depicting dedicated utility easements approved by the serving utilities.

A developer requesting a Line Extension to one or more undeveloped commercial or industrial lots, where the future occupant and estimated energy usage are unknown, will be required to pay to the Company in advance all costs associated with such Line Extension. Such Line Extension will be referred to as the Developer portion of the Line Extension and may include only a Primary Circuit. The subsequent Customer requesting completion of the Line Extension to the facility will be granted an Allowance based upon the estimated energy usage of the facility. The Allowance will be applied first to the Customer portion of the Line Extension and any remaining Allowance may be applied to the Developer portion of the Line Extension. If the Allowance exceeds the Customer portion of the Line Extension, the developer will be entitled to a refund of such excess amount, not to exceed the total advance which ~~he~~was paid to the Company. The developer may apply for a refund for each permanent Customer connected within the development during the first five years following completion of the Developer portion of the Line Extension. The Company will make a reasonable attempt to inform the developer when a refund is due.

6. RULES FOR CONVERSIONS AND RELOCATIONS

Both the General Rules and the following rules apply to all requests to convert overhead facilities to underground or to change the location of overhead or underground facilities. Construction to replace electric facilities which were disconnected or removed at the customer's request within the last 12 months will be treated as a Conversion or a Relocation and will not be granted an Allowance.

- a. All requests to convert or relocate electric facilities will be considered only when the Company, in its sole judgment, determines that they are feasible and compatible with existing neighboring electric facilities and when the requesting party has paid any Design Fees required.

Issued January 29, 2001

Effective February 15, 2001

Issued by Avista Utilities
By

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SCHEDULE 51 - continued

- b. Before construction starts, the party requesting a Conversion or Relocation must pay a conversion or relocation cost to the Company which is computed as follows:

	Basic Cost
+	Exceptional Costs
+	Customer Requested Costs
-	Cost Reductions
=	new line cost
+	Removal Costs
-	Salvage Value
-	(one) Design Fee of \$18550 (if paid)
<hr/>	
=	conversion or relocation cost

EXCEPTION: If the Customer is adding load and the load increase would require the Company to add or modify facilities at its expense, the conversion or relocation cost will be reduced by the estimated cost of such modification.

- 1) "New Line Cost" is the cost of the new line extension in accordance with the Rules for Individual Customers, except no Allowance will be credited to the cost.
- 2) "Removal Cost" is the cost of the labor, overheads and use of equipment required to remove the existing facilities.
- 3) "Salvage Value" is the value to the Company of the materials removed from the existing facilities.

7. DEFINITIONS AND CHARGES (listed alphabetically)

- a. "Customer" is any individual, partnership, corporation, association, governmental agency, political subdivision, municipality or other entity.

Issued January 29, 2001

Effective February 15, 2001

Issued by Avista Utilities
By

Thomas D. Dukich, Manager, Rates & Tariff Administration

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SCHEDULE 51 - continued

- b. "Dedicated Utility Easements" are designated strips or locations within the platted development which have been approved by the serving utility companies and the local government planning department and are dedicated to the serving utility companies for the purpose of construction, reconstruction, maintenance and operation of utilities, including the inspection of those utilities at reasonable times and the trimming or removal of brush and trees that may interfere with the construction, maintenance or operation of those utilities.
- c. "Design Fee" is a \$18550.00 payment to the Company by the Customer requesting a Line Extension, Conversion, or Relocation, in advance of the Company preparing the design. An initial Design Fee will be collected for any Line Extension, Conversion of Primary Circuit, or Relocation of Primary Circuit that is unusually large, complex, or of a questionable nature. Design Fees will be collected for additional designs if the Customer requests more than one design.
- d. "Extension Certificate" is a transferable certificate which entitles the bearer to receive certain refunds. Certificates will be issued to all Customers paying for a Primary Circuit, including Developers. The conditions under which refunds will be paid are described in this Schedule and on the Certificate.
- e. "Point of Delivery" is the location on the Customer's premises where the Company's service conductors and the Customer's service entrance conductors are connected at a common point to permit a single meter installation. The Point of Delivery will be designated by the Company.
- f. "Primary Circuit" is the electrical facility between the Company's existing energized primary facilities and the proposed Transformer. The Primary Circuit is single phase ~~or three phase~~, is operated at 2400 to 20,000 volts to ground and may include conductors, connectors, supporting structures, conduit and ~~trench-ditch~~. The Basic Cost of the Primary Circuit shall be computed using the following rates.

Issued January 29, 2001

Effective February 15, 2001

Issued by Avista Utilities
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SCHEDULE 51 - continued

Single-Phase
Overhead Primary Circuit:

Fixed Costs: \$4,2163,926 per Customer
Variable Costs: \$7.9263 per foot

Underground Primary Circuit:

Fixed Costs: \$1,657737 per Customer
Variable Costs: \$9.5891 per foot

~~Three-Phase*~~
~~Overhead Primary Circuit:~~

~~Fixed Costs: \$5,468 per Customer~~
~~Variable Costs: \$10.91 per foot~~

~~Underground Primary Circuit:~~

~~Fixed Costs: \$3,500 per Customer~~
~~Variable Costs: \$18.76 per foot~~

***Note: ~~Secondary Circuit, Service Circuit, and Transformer costs for three phase installations will vary based on the installed capacity of the Line Extension and are not shown in this Schedule.~~**

- g. "Secondary Circuit" is the electrical facility from the Company's Transformer to a handhole or connectors from which one or more Service Circuits originate. The Secondary Circuit is single phase, is operated at less than 600 volts to ground and may include conductors, connectors, ~~supporting structures~~, conduit, handholes, ~~junction box~~ and ~~trenchditch~~. The Basic Cost of the Secondary Circuit shall be computed using the following rates.

Issued January 29, 2001

Effective February 15, 2001

Issued by Avista Utilities
By

Thomas D. Dukich, Manager, Rates & Tariff Administration

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SCHEDULE 51 - continued

Single Phase Underground Secondary Circuit:

Fixed Costs: \$294,376 per customer

Variable Costs: \$8,719.23 per foot

- h. "Service Circuit" is the electrical facility between the Company's Transformer, connectors, or handhole and the Point of Delivery for a single Customer or building. The Service Circuit is single phase*, is operated at less than 600 volts to ground and may include conductors, connectors, ~~junction box, supporting structures~~, conduit, ~~handholes and trenchditch~~. The Basic Cost of the Service Circuit shall be computed using the following rates. These rates do not include meters and metering facilities which are used by the Company for billing purposes.

Single Phase Overhead Service Circuit:

Variable Costs: \$2,943.08 per foot

Single Phase Underground Service Circuit:

Variable Costs: \$6,938.33 per foot

- i. "Transformer" Basic Cost shall be computed using the following rates for single phase transformers.

Single Phase Overhead Transformer Costs: \$2,487,296 per Customer

Single Phase Padmount Transformer Costs: \$2,9853 per Customer

- j. "Underground Facilities" may include primary cable, secondary and service cable, secondary and service connections, surface-type (padmount) Transformers, ~~concrete pads, enclosures, switch gear~~, terminations, ~~equipment protective barriers~~ and conduit or duct where necessary. These facilities will be owned, operated and maintained by the Company unless otherwise provided for by agreement.

Issued April 30, 2014

Effective May 1, 2014

Issued by Avista Utilities
By

Kelly Norwood, Vice President – State & Federal Regulation

IDAHO

Advice No. AVU-15-01-E

**Avista 2015 Schedule 51
Filing**

Workpapers

Avista Utilities
Idaho 2015 Schedule 51 Costs for Developments based on 2014 Costs

Residential Developments

	<u>2014</u>	<u>2015</u>
Total Cost per Lot-Total	\$ 1,596	\$ 1,705
Less: Service	\$ 485	\$ 417
Primary, secondary, transformer (developer responsibility)-		
No ditching by developer	\$ 1,111	\$ 1,288
Minimum cash up-front (non-refundable)	\$ -	\$ -
Add. cash or promissory note	\$ 1,111	\$ 1,288
Ditching provided by developer	\$ 1,111	\$ 1,288
Minimum cash up-front (non-refundable)	\$ -	\$ -
Add. cash or promissory note	\$ 1,111	\$ 1,288
Builder responsibility / payment		
Total Cost per Lot	\$ 1,596	\$ 1,705
Less: Allowance (not to exceed cost per lot)	\$ 1,550	\$ 1,550
Builder payment required	\$ 46	\$ 155



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873	Est Date: Mar 12, 2015 2:14:18 PM
Name: Development	Design Version: 1
Work Zone: 15MIN	Crew Type: URDCREW
Service Address	

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	1	116.88	\$0.00	\$4,439.05	0	\$13,155.46	\$0.00	\$0.00	\$8,912.00	\$0.00	\$3,499.66	\$0.00	\$8,639.95	\$38,646.12

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	1CN15 E	2,211	\$2.7694	\$6,123.09
	25P-13-240/120 E	1	\$1,945.5841	\$1,945.58
	2CDTPL E	2,010	\$1.4452	\$2,904.80
	2SWEEP E	12	\$20.7840	\$249.41
	37.5P-13-240/120 E	3	\$2,164.4578	\$6,493.37
	3CDTPL E	1,230	\$3.0049	\$3,696.08
	3SWEEP E	16	\$26.9606	\$431.37
	4/0TXUG E	1,353	\$2.4714	\$3,343.85
	50P-13-240/120 E	1	\$2,340.9319	\$2,340.93
	BC15 E	2	\$33.1305	\$66.26
	BOXPAD E	5	\$568.0777	\$2,840.39
	BUS40 E	24	\$49.8723	\$1,192.14
	CBLPUSH E	1	\$560.2530	\$560.25
	EB15 E	12	\$131.1030	\$1,573.24
	GNDUG E	2	\$88.9021	\$173.80
	GNDUG E	5	\$88.9021	\$434.51
	HH E	8	\$192.8107	\$1,542.49
	JE1 E	2	\$1,020.4296	\$2,040.86
	JE1-GNDSLVE	2	\$346.8528	\$693.71
Overall - Total				38,646.12

Development Cost per Lot

Total Cost	Lots	Cost/Lot
\$38,646	30	\$1,288



Work Order Cost Estimate Assembly Listing

Data Source: Work
Order
Data Updated Daily

Work Order: 1000281873

WO Number:	1000281873	Est Date:	Mar 12, 2015 3:48:45 PM
Name:	Builder's Charge	Design Version:	2
Work Zone:	SMALLJOB	Crew Type:	URDCREW
Service Address			

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
8472	2	2.55	\$0.00	\$98.92	0	\$88.60	\$0.00	\$0.00	\$194.58	\$0.00	\$37.28	\$0.00	\$0.00	\$417.38
Work Function Desc		CU Name	Quantity	Unit Cost	Line Cost									
Install		2/0TXUG E	55	\$2.1963	\$120.79									
		2CDTPL E	50	\$1.5291	\$76.46									
		DD24 E	50	\$4.4027	\$220.14									
Overall - Total				417.38										



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
Name: OH Primary Fixed
Work Zone: SMALLJOB
Service Address:

Est Date: Mar 12, 2015 3:49:30 PM
Design Version: 3
Crew Type: OHCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	3	22.04	\$0.00	\$824.55	0	\$1,537.05	\$0.00	\$0.00	\$828.52	\$0.00	\$738.07	\$0.00	\$0.00	\$3,928.19
Work Function Desc		CU Name	Quantity	Unit Cost	Line Cost									
Install		1X E	1	\$453.6091	\$453.61									
		45PCL3 E	1	\$1,747.8144	\$1,747.81									
		7/16DGGKIT-LIGHT E	2	\$566.8552	\$1,133.71									
		CDEA4AC E	4	\$32.5716	\$130.29									
		DEINPL25 E	2	\$16.3137	\$32.63									
		GND E	1	\$89.3809	\$89.36									
		GND-THEFT DET E	1	\$102.2512	\$102.25									
		NDE E	2	\$10.5169	\$21.03									
		NPDEHW E	2	\$24.8167	\$49.83									
		PDEHW E	2	\$32.9028	\$65.81									
		PIVT15-25 E	1	\$47.5127	\$47.51									
		PP E	1	\$52.5380	\$52.54									
Overall - Total					3,928.18									



Work Order Cost Estimate Assembly Listing

Data Source: Work
Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
 Name: OH Primary Variable
 Work Zone: SMALLJOB
 Service Address

Est Date: Mar 12, 2015 3:49:58 PM
 Design Version: 4
 Crew Type: OHCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	4	18.18	\$0.00	\$805.50	0	\$952.35	\$0.00	\$0.00	\$608.41	\$0.00	\$505.78	\$0.00	\$0.00	\$2,872.04

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	1RH E	1	\$127.5819	\$127.58
	45PCL3 E	1	\$1,751.7147	\$1,751.71
	4ACSR E	770	\$0.6412	\$493.75
	GND E	1	\$89.5603	\$89.56
	GND-THEFT DET E	1	\$102.4794	\$102.48
	PIVT15-25 E	1	\$47.8187	\$47.62
	PP E	1	\$52.6652	\$52.66
	ST4 E	1	\$6.8744	\$6.67

OH Primary Variable Cost

Total Cost	Length (ft)	Cost/Ft
\$2,672	350	\$7.63

Overall - Total 2,672.03



Work Order Cost Estimate Assembly Listing

Data Source: Work
Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
 Name: UG Primary Fixed
 Work Zone: 15MIN
 Service Address:

Est Date: Mar 12, 2015 3:49:09 PM
 Design Version: 8
 Crew Type: URDCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	8	5.29	\$0.00	\$200.75	0	\$912.27	\$0.00	\$0.00	\$403.04	\$0.00	\$220.78	\$0.00	\$0.00	\$1,736.84
Work Function Desc		CU Name	Quantity	Unit Cost	Line Cost									
Install		2SWEEP E	2	\$20.7784	\$41.56									
		BC15 E	2	\$33.1218	\$66.24									
		EB15 E	2	\$131.0679	\$262.14									
		JE1 E	1	\$1,020.1564	\$1,020.16									
		JE1-GNDSLVE	1	\$346.7599	\$346.78									
Overall - Total					1,736.85									



Work Order Cost Estimate Assembly Listing

Data Source: Work
Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
 Name: UG Primary Variable
 Work Zone: 15MIN
 Service Address:

Est Date: Mar 12, 2015 3:49:00 PM
 Design Version: 9
 Crew Type: URDCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	9	35.63	\$0.00	\$1,353.31	0	\$1,501.02	\$0.00	\$0.00	\$2,716.96	\$0.00	\$572.53	\$0.00	\$0.00	\$6,143.82

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	1CN15 E	682	\$2.6650	\$1,817.56
	2CDTPL E	620	\$1.3907	\$862.25
	CBLPUSH E	1	\$539.1463	\$539.15
	DD36HOE E	620	\$4.7175	\$2,924.87

UG Primary Variable Cost

Total Cost	Length (ft)	Cost/Ft
\$6,144	620	\$9.91

Overall - Total 6,143.83



Work Order Cost Estimate Assembly Listing

Data Source: Work
Order
Data Updated Daily

Work Order 1000281873

WO Number:	1000281873	Est Date:	Mar 12, 2015 3:48:16 PM
Name:	UG Secondary Fixed	Design Version:	10
Work Zone:	15MIN	Crew Type:	URDCREW
Service Address:			

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	10	2.13	\$0.00	\$80.87	0	\$98.73	\$0.00	\$0.00	\$162.36	\$0.00	\$35.60	\$0.00	\$0.00	\$375.56

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	2SWEEP E	1	\$20.0363	\$20.04
	3SWEEP E	1	\$25.9907	\$25.99
	BUS40 E	3	\$47.8855	\$143.66
	HHE	1	\$185.8748	\$185.87

Overall - Total **375.56**



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873
 Name: UG Secondary Variable
 Work Zone: 15MIN
 Service Address:

Est Date: Mar 12, 2015 3:48:05 PM
 Design Version: 11
 Crew Type: URDCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	11	2.36	\$0.00	\$89.93	0	\$144.25	\$0.00	\$0.00	\$180.55	\$0.00	\$48.81	\$0.00	\$0.00	\$461.54

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	3CDTPL E	50	\$2.9183	\$145.91
	4/0TXUG E	55	\$2.4001	\$132.01
	DD24HOE E	50	\$3.6728	\$183.83

Overall - Total 461.55

UG Secondary Variable Cost

Total Cost	Length (ft)	Cost/Ft
\$462	50	\$9.23



**Work Order Cost Estimate
Assembly Listing**

Data Source: Work Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
 Name: OH Service
 Work Zone: SMALLJOB
 Service Address:
 Est Date: Mar 12, 2015 3:48:29 PM
 Design Version: 5
 Crew Type: OHCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	5	1.46	\$0.00	\$54.58	0	\$39.12	\$0.00	\$0.00	\$54.84	\$0.00	\$36.39	\$0.00	\$0.00	\$184.93

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	2TX E	66	\$2.8020	\$184.93

Overall - Total 184.93

OH Service Variable Cost

Total Cost	Length (ft)	Cost/Ft
\$185	60	\$3.08



Work Order Cost Estimate Assembly Listing

Data Source: Work
Order
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873
 Name: UG Service
 Work Zone: SMALLJOB
 Service Address

Est Date: Mar 12, 2015 3:51:02 PM
 Design Version: 12
 Crew Type: URDCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	12	3.82	\$0.00	\$145.22	0	\$132.39	\$0.00	\$0.00	\$291.65	\$0.00	\$55.79	\$0.00	\$0.00	\$624.95

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	2/OTXUG E	82	\$2.1961	\$180.08
	2CDTPL E	75	\$1.5290	\$114.67
	DD24HOE E	75	\$4.4025	\$330.18

UG Service Variable Cost

Total Cost	Length (ft)	Cost/Ft
\$625	75	\$8.33

Overall - Total **624.94**



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
 Name: OH Transformer
 Work Zone: SMALLJOB
 Service Address:

Est Date: Mar 12, 2015 3:48:54 PM
 Design Version: 6
 Crew Type: OHCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	6	18.72	\$0.00	\$700.50	0	\$40.56	\$0.00	\$0.00	\$703.87	\$0.00	\$376.08	\$0.00	\$9,335.40	\$11,156.41

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	100-13-120/240 E	1	\$3,201.6655	\$3,201.67
	15-13-120/240 E	1	\$1,048.5733	\$1,048.57
	25-13-120/240 E	1	\$1,318.9167	\$1,318.92
	37.5-13-120/240 E	1	\$1,507.1916	\$1,507.19
	50-13-120/240 E	1	\$1,665.2942	\$1,665.29
	75-13-120/240 E	1	\$2,414.7730	\$2,414.77

OH Transformer Total

Install	Transformer	Total
\$963	\$1,334	\$2,296

Overall - Total 11,156.41

OH Transformer	unit cost	% used	% cost
15-13-120/240	\$1,048.57	44.14%	\$462.84
25-13-120/240	\$1,318.92	28.24%	\$372.49
37.5-13-120/240	\$1,507.19	9.82%	\$147.99
50-13-120/240	\$1,665.29	11.75%	\$195.70
75-13-120/240	\$2,414.77	4.96%	\$119.68
100-13-120/240	\$3,201.67	1.09%	\$34.93
			\$1,334



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873
 Name: OH Transformer Install
 Work Zone: SMALLJOB
 Service Address

Est Date: Mar 12, 2015 3:48:38 PM
 Design Version: 7
 Crew Type: OHCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	7	5.82	\$0.00	\$218.06	0	\$343.17	\$0.00	\$0.00	\$219.10	\$0.00	\$182.18	\$0.00	\$0.00	\$962.51

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	18FGSOB E	1	\$246.4507	\$246.45
	3/0CUWP E	23	\$4.3684	\$100.47
	3R E	1	\$181.8856	\$181.69
	CO100 E	1	\$204.8136	\$204.81
	GNDT E	1	\$27.4843	\$27.48
	LA10T E	1	\$187.6658	\$187.67
	TMHW E	1	\$34.1443	\$34.14

Overall - Total **962.52**



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order 1000281873

WO Number: 1000281873
 Name: UG Transformer
 Work Zone: SMALLJOB
 Service Address:

Est Date: Mar 12, 2015 3:50:37 PM
 Design Version: 13
 Crew Type: URDCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	13	27.89	\$0.00	\$1,051.87	0	\$23.46	\$0.00	\$0.00	\$2,111.36	\$0.00	\$219.75	\$0.00	\$11,528.15	\$14,932.39

Work Function Desc	CU Name	Quantity	Unit Cost	Line Cost
Install	100P-13-240/120 E	1	\$3,550.3517	\$3,550.35
	15P-13-240/120-T E	1	\$1,570.9699	\$1,570.97
	25P-13-240/120 E	1	\$2,086.9049	\$2,086.90
	37.5P-13-240/120 E	1	\$2,309.4513	\$2,309.45
	50P-13-240/120 E	1	\$2,488.8867	\$2,488.89
	75P-13-240/120 E	1	\$2,925.8234	\$2,925.82

UG Transformer Total

Install	Transformer	Total
\$764	\$2,219	\$2,983

Overall - Total **14,932.39**

UG Transformer	unit cost	% used	% cost
15P-13-240/120	\$1,570.97	26.6%	\$417.18
25P-13-240/120	\$2,086.90	25.4%	\$531.00
37.5P-13-240/120	\$2,309.45	17.9%	\$413.14
50P-13-240/120	\$2,488.89	15.1%	\$376.10
75P-13-240/120	\$2,925.82	8.1%	\$237.32
100P-13-240/120	\$3,550.35	6.9%	\$244.58
			\$2,219



Work Order Cost Estimate Assembly Listing

Data Source: Work Order
Data Updated Daily

Work Order: 1000281873

WO Number: 1000281873
Name: UG Transformer Install
Work Zone: SMALLJOB
Service Address

Est Date: Mar 12, 2015 3:50:06 PM
Design Version: 14
Crew Type: URDCREW

Estimate Request	Estimate Version	Labor Hours	Contract Labor Hours	Labor Cost	Contract Labor Cost	Material Cost In	Direct Materials Cost	Service Cost	Tool Cost In	Tool Cost Out	OH Cost	Salvage Amt	Deferred Amt	Total Cost
6472	14	2.5	\$0.00	\$94.80	0	\$383.94	\$0.00	\$0.00	\$190.32	\$0.00	\$95.03	\$0.00	\$0.00	\$764.09
Work Function Desc		CU Name	Quantity	Unit Cost	Line Cost									
Install		2SWEEP E	1	\$24.3137	\$24.31									
		BC15 E	1	\$34.5179	\$34.52									
		BOXPAD E	1	\$603.6483	\$603.65									
		GNDUG E	1	\$101.8083	\$101.61									
Overall - Total					764.09									