

Kiewit Infrastructure West Co.
Klamath River Renewal Project
Technical Specifications

02 41 99 ELECTRICAL DISTRIBUTION SYSTEM DEMOLITION

Prepared by:

TW

Terry Wolfsen
Kiewit Engineering Group Inc.

Reviewed by:

Tawatchai Chaipaisan
Kiewit Engineering Group Inc.

Approved by:

Craig Nistor
Knight Piésold

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REVISION INDEX

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	Prepared by	Reviewed by	Approved by			
0	Terry Wolfsen	Tawatchai Chaipaisan	Craig Nistor	052722	-	-

Approval that this document adheres to the Knight Piésold Quality System:

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SECTION 02 41 99 – ELECTRICAL DISTRIBUTION SYSTEM DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. The Work includes removal of the associated utility lines at the J.C. Boyle powerhouse, the Copco No. 1 powerhouse, the Copco No. 2 powerhouse, the Iron Gate powerhouse and area outbuildings and village areas.

1.2 RELATED SECTIONS

- A. Section 02 41 00 – Demolition and Facility Removal.

1.3 REFERENCES

- A. Drawings and general provisions of the Contract, including general and supplementary conditions, apply to this section.

1.4 WORK INCLUDED

- A. The Contractor shall furnish all labor, equipment, and materials necessary to remove, salvage, and dispose of, abandon, or reset existing power lines and conduits, communication lines and facilities, and/or miscellaneous structures of all types and as required for the demolition of the proposed dam, powerhouse, fish facilities and village installations.

1.5 SUBMITTALS

- A. Submit in accordance with the Contract Documents and FERC surrender order articles.
- B. Provide the following submittals before starting any work, in accordance with Section 02 41 00 – Demolition and Facility Removal.
 - 1. Demolition and Removal Plan indicating the following:

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- a. Description and schedule of materials to be disposed on site and their disposal location.
- b. Description and schedule of materials to be disposed off site and their disposal location.
- c. Submit Utility Interruption Plan and utility service disconnection schedule.

1.6 WORKSITE CONDITIONS

- A. Contractor to provide record of lockout tagout.
- B. Equipment identified to be salvaged shall be inspected and designated for salvage or disposal in accordance with Section 02 41 00 or as shown on the Drawings.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Confirm the location of all structures and equipment to be removed.
- B. Confirm the location and condition of all structures and equipment to be salvaged in accordance with Section 02 41 00 – Demolition and Facility Removal.

3.2 POWER/COMMUNICATION AERIAL LINE REMOVAL/ABANDONMENT

- A. The Contractor shall be responsible for removal of any utility line, substation, and switchyard, as shown on the Contract Drawings that are to be abandoned or removed. Per Section 02 41 00. Record drawings of below ground concrete, rebar, etc. are not available for all areas of removal within the switchyards. Foundation layout plans have been identified at J.C. Boyle Switching Substation and Copco No. 2 Substation; however, no existing plans are available at Copco No. 1 and Iron Gate Substations. Per Section 02 41 00 3.4 – Removal of Structures and Facilities, remove or abandon in place all concrete and conduit as described on Drawings.

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- B. The Contractor shall isolate the portion of the lines to be removed or communicate with the Operator to verify de-energization of powerlines. Any connections on the line to be removed shall also be de-energized for removal so that all work can be performed in a safe manner and existing materials are properly salvaged or disposed of.
- C. The Contractor is responsible for any necessary lock out/tag out procedures as required prior to performing any work.
- D. The end of line runs to remain shall be suitably determined from the plans. All poles, guy wires, guy poles, transformers and associated equipment, pole lights, and conduit/riser equipment shall be removed by the Contractor. Refer to specification 02 41 00 for a list of salvage materials, applicable to this demolition scope of work.
- E. Foundations shall be buried unless regrading of the area results in removal. The Contractor shall provide two (2) feet of cover material over any remaining structure base/foundation. Any removal resulting in two (2) foot or less of structure base shall be totally removed. Ground rods shall be cut off one (1) foot below the finished ground elevation. Transmission, distribution, communication, and production poles that are to be removed may be cut two (2) feet below ground line and back-filled with native soil. Should wood pole removals reveal any contamination from test and treat procedures, the entire pole length must be removed from the ground.
- F. Any existing lines that have a portion of line run removed and are to remain in service shall be properly restrained to provide stability of the remaining installation. For general construction standards refer to applicable PacifiCorp TA Transmission Construction Standards.
- G. The Contractor shall load, haul away, and dispose of in an approved location any debris, trash, structures, etc. removed from the worksite in accordance with all applicable codes and regulations.

3.3 CABLE/CONDUIT REMOVAL/ABANDONMENT

- A. The Contractor shall be responsible for removal of any cable line shown on the Contract Drawings that are to be abandoned or removed. Buried conduit may be abandoned in place.
- B. The Contractor shall isolate the portion of the lines within the conduits to be removed or communicate with the Operator to verify de-energization or use of the conduit lines. Any connections on the line to be removed shall also be de-energized for removal so that all work can be performed in a safe manner and existing materials are properly salvaged or disposed of.

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- C. The Contractor is responsible for any necessary lock out/tag out procedures as required prior to performing any work.
- D. The ends of conduit runs to remain shall be suitably determined from the plans. All conduits shall be terminated with hand holes or other junction box installations as detailed in the Contract Drawings.
- E. Foundations shall be buried unless regrading of the area results in removal. Removal or demolishing shall be at the Contractors discretion; however, the Contractor shall provide two (2) feet of cover material over any remaining structure base/foundation. Any removal resulting in two (2) foot or less of structure base shall be totally removed. Ground rods shall be cut off one (1) foot below the finished ground elevation.
- F. Any existing lines that have a portion of line run removed and are to remain in service shall be properly terminated to provide stability or operation of the remaining installation.
- G. The Contractor shall follow all applicable codes and regulations for removal of hazardous materials and dispose of in a legal and proper manner.
- H. The Contractor shall load, haul away, and dispose of in an approved location any debris, trash, structures, etc. removed from the worksite in accordance with all applicable codes and regulations.

3.4 MISCELLANEOUS STRUCTURE REMOVAL/RESET

- A. The Contractor shall be responsible for removal of any miscellaneous structure that as indicated on the Contract documents and/or drawings.
- B. Where miscellaneous structures are to be removed, the Contractor shall remove the structure, with their attached parts and connections, from supports/foundation, excavate the supports/foundation, and backfill the void with approved material; the backfill shall be E9.
- C. The Contractor shall load, haul away, and dispose of in an approved location any debris, trash, structures, parts, connections, etc. removed from the worksite in accordance with all applicable codes and regulations.

END OF SECTION 02 41 99