

## BID UNIT DESCRIPTIONS

These descriptions are provided for the units not covered in the 2024-2025 Outside Electrical Line Construction Contract.

### NEW LINE CONSTRUCTION

#### SECTION 1 – FOUNDATION ASSEMBLY UNITS

##### FOUNDATION ASSEMBLY UNITS

Foundation assembly units include furnishing and installing miscellaneous materials, miscellaneous labor and providing miscellaneous equipment for backfilling and proper disposal of excess materials necessary to provide a complete foundation assembly as indicated on contract Drawings and Specifications.

<u>UNIT</u>	<u>DESCRIPTION</u>
<b><u>DRIVEN PIPE PILES W/ WELDED TOP PLATES</u></b> PP30x5-35, PP36x6-35, PP42x7-35	These foundation unit consist of installing one driven pile to depth, as shown on the Drawings, and described in the Specifications. Included in these units are pile handling, hauling from Chugach’s storage site, blocking required for storage, pre-drilling and/or excavation and the removal of all waste and spoils, all work required to relieve soil friction due to soil consolidation, and all removal, relocation, repair, and replacement of existing above-ground obstructions required to access the site and install the foundation. Installation of the top plate, furnishing and installing all welding materials, procedures, certifications, and welding inspection services are also included in these units.

#### SECTION 2 – STRUCTURE ASSEMBLY UNITS

Structure assembly units include furnishing and installing miscellaneous materials, miscellaneous labor and providing miscellaneous equipment necessary to provide a complete structure assembly as indicated on contract Drawings and Specifications. All structure handling, structure unloading and structure hauling from Chugach delivery site, structure hauling from the Contractor storage site, and blocking required for temporary storage is also included in this unit. Any work needed on existing facilities required for the installation of new structure including but not limited to cover-up, temporary guys, temporary cross-arms, etc., and adjustment of structures after wire stringing due to settlement or structure movement is included in these units.

<b><u>ANCHOR STUD STEEL POLES</u></b> ITRR 1-1 60’, ITRR 1-2 87’, ITPM2 1-1/ITUV 1-1 60’, 100-07 65’	These Steel Pole structure units consists of the complete installation of a one (1) steel mono-pole or H-frame pole structure of the length indicated on pipe pile foundations, including arms if required. These units do not include the structure top assembly unit, foundations nor other parts attached to the structure, which are separate units.
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**+MANHOUR** This unit will be applied only if required and authorized by Chugach. Unit

quantity of this bid unit may be increased, decreased and/or deleted from the contract without adjustments to the price.

### **SECTION 3 – STRUCTURE TOP ASSEMBLY UNITS**

<u>UNIT</u>	<u>DESCRIPTION</u>
STM-10, STM-10D, STM-3B, STM-3F, M5-7X, GR	These structure top assembly units consist of the installation of hardware, insulators, conductor clamps and ties, or dead-end assemblies required to support one phase of power conductor. Any required blocking provided by the Contractor for temporary storage shall be included in these bid units. Re-tightening of factory installed hardware shall be included in these units. Also included in these units are any required field drilled holes, field cut pole gains, supply of treatment and treating of the drilled holes and pole gains, and replacement of damaged poles due to miss-drilling of holes by Contractor. These units include the installation of Chugach furnished materials as listed in the List of OFM. These units include all miscellaneous labor and materials. These units also include all equipment for handling, hauling and assembly necessary to provide a complete structure top assembly installation. These units do not include the structure, signs or conductor.

### **SECTION 4 – CONDUCTOR AND CABLE ASSEMBLY UNITS**

#### CONDUCTOR AND CABLE ASSEMBLY

A conductor or cable assembly unit includes installation of Chugach furnished materials and the furnishing and installation of all miscellaneous labor, materials and equipment for a complete conductor or cable installation. These units include all conductor or cable handling, hauling from Chugach storage site, and cutting, splicing, sagging, clipping, and testing in accordance with the specifications. These units include returning to Chugach Warehouse of excess conductor or cable, all empty reels that are returnable to the manufacturer, and disposal of reels that are not returnable.

<u>UNIT</u>	<u>DESCRIPTION</u>
138KV RELOCATE,	These conductor units consist of relocating existing facilities and installing new conductor. They include securing the conductor and installation of compression dead-ends, and all required splices and jumpers. Also included in this unit is the installation of all required compression terminals and connectors. All labor and miscellaneous materials associated with unclipping, clipping, erection and removal of temporary guard structures, cover up, wire dead-ends, tension guying, etc. for the conductor shall be included in this unit.

### **SECTION 5 – MISCELLANEOUS ASSEMBLY UNITS**

#### MISCELLANEOUS ASSEMBLY

Miscellaneous assembly units include installation of Chugach furnished materials. These units include Contractor furnished materials and equipment for handling and hauling miscellaneous assembly units. These units also include all miscellaneous labor and materials for a complete miscellaneous assembly unit.

<u>UNIT</u>	<u>DESCRIPTION</u>
SM52-3	This unit consists of furnishing and installing a structure number on one (1) structure as shown on the Drawings. Furnishing and installing of miscellaneous hardware and labor, including the field drilling of mounting holes, is included in this unit.
SM52-3T	These units consist of furnishing and installation of an aerial patrol sign on the upper portion of structures as shown on the Drawings complete with all required miscellaneous material and labor.
SM52-3B	This unit consists of furnishing and installation of a danger sign on one (1) steel pole as shown on the Drawings complete with all required miscellaneous material and labor.
35KV-TRANS, DIST-TRANS	These units consist of furnishing all miscellaneous material, labor and equipment required to detach, temporarily support, and reattach existing underbuild facilities, and miscellaneous equipment and apparatus from the existing pole to the new pole at Pole 100-07. Unit 35KV-TRANS includes transferring two circuits of 34.5 kV. Unit DIST-TRANS includes transferring one 4-wire circuit of 12.5 kV, a cutout, a transformer, and a secondary riser.

## **REMOVAL/RETIREMENT ASSEMBLY UNITS**

### REMOVAL ASSEMBLY UNITS

<u>UNIT</u>	<u>DESCRIPTION</u>
*WOOD POLE	This unit includes all labor, tools, equipment and transportation required to remove and dispose of a wood pole. The cost of disposal of all discarded materials is included in this unit.
*STEEL POLE	This unit includes all labor, tools, equipment and transportation required to remove and dispose of a one steel pole structure, including its foundation. Foundation removal includes demolition of anchor bolts and reinforced concrete pier to 18” below the groundline. The cost of disposal of all discarded materials is included in this unit.
*SW BRACE	This unit includes all labor, tools, equipment and transportation required to remove and dispose of a set of swamp braces used on one pole structure. The cost of disposal of all discarded materials is included in this unit.

\*GUY This unit includes all labor, tools, equipment and transportation required to remove and dispose of a down or span guy. The cost of disposal of all discarded materials is included in this unit.

\*ANCHOR This unit includes all labor, tools, equipment and transportation required to remove and dispose of an anchor rod in accordance with the specifications. The cost of disposal of all discarded materials is included in this unit. Restoration of disturbed areas is included in this unit.

\*138kV SUSP,  
\*138kV POST,  
\*138kV DE, \*  
\*35kV POST,  
\*12kV ARM  
These units include all labor, tools, equipment and transportation required to remove and dispose of a complete, 3-phase pole top assembly. The cost of disposal of all discarded materials is included in this unit.

## **SURVEY UNITS**

<u>UNIT</u>	<u>DESCRIPTION</u>
SURVEY 1	This survey unit consists of all surveying as described in the specifications including all associated work required for the construction survey.
SURVEY 2	This survey unit consists of all surveying as described in the specifications plus all associated work (final survey and deliverables) required for the post-construction survey.

## **MOBILIZATION/DEMObILIZATION**

<u>UNIT</u>	<u>DESCRIPTION</u>
MOB	This unit consists of furnishing and delivering to the site, mobilization of construction equipment, materials, supplies, appurtenances, and the like, manned and ready for commencing and prosecuting the work. It also includes furnishing clearing and preparation of the Contractor's work and/or storage areas; the complete assembly, in working order, of equipment necessary to perform the required work; and all other preparatory work on construction items for which payment is provided under the Contract.
DEMOb	This unit consists of removal from the site of all equipment, appurtenances and the like used for the performance of the work, as well as restoration of the Contractor's work and/or storage area, clean-up and disposal of all debris, spoils and trash after all work is completed.