

## **SECTION 724 -- INSTALLATION AND REMOVAL OF FLARED-END SECTIONS**

### **724.01 -- Description**

1. As prescribed in the plans, the Contractor shall:
  - a. Furnish and install new flared-end sections.
  - b. Remove, salvage, and reinstall flared-end sections.
  - c. Remove and dispose of flared-end sections.
  - d. Reinstall Department furnished flared-end sections.
2. Flared-end sections shall be manufactured as integral units so they may be readily installed and joined with the culvert pipe as shown in the plans.
3. The Contractor shall stockpile and reinstall concrete and metal flared-end sections and bar grates at the locations shown in the plans.

### **724.02 -- Material Requirements**

1. Metal flared-end sections for culvert pipe shall conform to the applicable requirements of Section 1036 for the diameter of pipe on which they are to be installed.
2. Concrete flared-end sections for use on concrete pipe shall conform to the applicable requirements of AASHTO M 170M, M 206M, or M 207M, for Class II pipe.
3. The Contractor shall not order any flared-end section until a correct list of sizes is provided by the Engineer.

### **724.03 -- Construction Methods**

1. The Contractor shall excavate and backfill in accordance with the requirements of Section 702.
2. Flared-end sections to be removed and salvaged shall be removed in such a manner as to avoid damage to the flared-end section and the pipe when the pipe is salvaged. The salvaged flared-end sections shall be cleaned to remove accumulations of dirt and debris and stored at a location designated by the Engineer.
3. The Contractor shall install flared-end sections in accordance with the requirements of Section 719 or 720, depending on the type of end section.
4. Flared-end sections with bar grates may be removed as a unit; or, at the Contractor's option, the bar grate may be removed before the removal of the flared-end section.

**724.04 -- Method of Measurement**

1. A new flared-end section is measured by the each as " \_\_\_\_\_ inch \_\_\_\_\_ Flared-End Section". Included is a new flared-end section and its installation.
2. Flared-end section removal is measured by the each as "Remove Flared-End Section".
3. Flared-end section removal and salvage is measured by the each as "Remove and Salvage Flared-End Section."
4. Installation of salvaged or State furnished flared-end sections is measured by the each as "Install \_\_\_\_\_ inch \_\_\_\_\_ Flared-End Section".
5. New flared-end sections for culverts are measured by the each as " \_\_\_\_\_ inch Flared-End Section" when the Contractor has an option as to the type of pipe to use.

**724.05 -- Basis of Payment**

- |    |   |                 |
|----|---|-----------------|
| 1. | <u>Pay Item</u>                             | <u>Pay Unit</u> |
|    | _____ inch Flared-End Section               | Each (ea)       |
|    | Install _____ inch _____ Flared-End Section | Each (ea)       |
|    | Remove Flared-End Section                   | Each (ea)       |
|    | _____ inch _____ Flared-End Section         | Each (ea)       |
|    | Remove and Salvage Flared-End Section       | Each (ea)       |
2. Excavation required for the work of removing or installing the flared-end sections which is beyond the pay limits of excavation for installing or removing the culvert pipe in Figure 701.01 will not be measured or paid for directly, but shall be considered subsidiary to the flared-end section removal and/or installation pay item.
  3. Removal and reinstallation of bar grates is subsidiary to the appropriate flared-end section pay item.
  4. Flared-end sections for the pay item "Install \_\_\_\_\_ inch \_\_\_\_\_ Flared-End Section" shall be either salvaged or State furnished.
  5. Payment is full compensation for all work prescribed in this Section.