Section 2514. Curb Removal

2514.01 DESCRIPTION.

A. Remove curb from PCC pavements which are to remain in place. Remove flumes and construct and shape shoulders as specified in the contract documents.

B. The contract documents may also include granular surfacing of shoulders, seeding and fertilizing, and other additional work.

2514.02 MATERIALS.

None.

2514.03 CONSTRUCTION.

A. Removal of Curb.

1. Remove all integral curb using methods which will not damage concrete that is to remain.

2. When the contract documents do not provide for resurfacing, remove the curb using a grinding machine designed for that purpose.

3. Grind the curb flush with the adjacent pavement surface within a tolerance of ± 1/4 inch (5 mm). Grind the surface to project inside the curb the minimum amount necessary to assure complete curb removal, but not more than 2 inches (50 mm). Ensure the resulting surface has a texture satisfactory to the Engineer.

4. When the contract documents provide for resurfacing, remove the curb by grinding or other methods the Engineer approves. Other methods may include chipping or sawing and breaking. Ensure the method chosen provides complete removal of curb that extends above the pavement surface. Ensure it also provides a safe and smooth surface to accommodate traffic.

5. When removal is by sawing and breaking, perform the work as shown in the contract documents and as follows:

a. Make a vertical saw cut along the edge of the curb nearest the centerline of pavement. At the end of the curb section, extend the saw cut to the extreme end of the curb. At this point make a saw cut at right angles and extend to the pavement edge.
b. Where flumes occur in curb sections, extend the saw cut across the throat of the flume.
c. On resurfaced pavement, locate the saw cut 7 1/2 inches (190 mm) from the pavement edge. Cut to a depth of 3 inches (75 mm) below the surface of the resurfacing.
d. Immediately before breaking the curb, clean the sawed groove free of dirt, stones, or any foreign matter to a depth at least 1 inch (25 mm) below the pavement surface.

6. Remove concrete, including resurfacing concrete and concrete across the throats of flumes, to the dimensions shown in the contract documents. Cut off all reinforcement exposed and loosened.

7. When curb is removed by grinding, remove the ground material from the pavement surface. The ground material may be deposited as an edge fillet or spread on the adjacent shoulder surface.
8. Unless provided otherwise, remove broken concrete according to Article 1104.08.

B. Removal of Flumes.
Removal of flumes includes removal of shoulder basins, slope drains, and discharge basins. Place backfill in the area excavated for flume removal. Compact as directed by the Engineer. Remove flume material according to Article 1104.08.

C. Removal of Posts.
Remove posts as directed by the Engineer. Fill holes resulting from post removal. Compact as directed by the Engineer.

D. Shoulders.

1. Construct shoulders as shown in the contract documents, according to Article 2302.03, F.

2. Fill in depressions resulting from removal of flumes, slope drains, and discharge basins. Use excess shoulder material shaped and compacted with a mechanical tamper or by other methods the Engineer approves.

E. Traffic Control.

1. Traffic control complying with Section 2528 will be required for this work. Work areas will be limited to approximately 1/2 mile (0.8 km) in length.

2. Do not allow traffic in a lane while a drop-off exists at the edge of the pavement in that lane. Schedule work so there are no lane closures or drop-offs at the edge of the pavement overnight.

3. Complete shoulder and fillet or granular surfacing edge treatment on the first side of the pavement at a location before commencing curb removal on the second side of the pavement.

2514.04 METHOD OF MEASUREMENT.

Measurement for curb removal work satisfactorily completed will be as follows:

A. Removal of Curb.
According to Article 2213.04, A.

B. Removal of Flumes.
According to Article 2213.04, B.

C. Shoulders.
According to Article 2302.04, D.

D. Removal of Posts.
The number of posts removed, as specified, will be determined by count.

2514.05 BASIS OF PAYMENT.

Payment for the items involved in curb removal, measured as specified above, will be as described below. Payment is full compensation for all labor, equipment, and materials to remove the curb, posts, flumes, and for the construction of shoulders as specified.

A. Removal of Curb.
According to Article 2213.05, A.

B. Removal of Flumes.
According to Article 2213.05, B.

C. Shoulders.
According to Article 2302.05, D.

D. Removal of Posts.
Contract unit price for the number of posts removed as specified.