Design Features:

- **Over-square Footprint**: (width greater than opened length) minimizes outward flow of material during bucket closure.

- **Sloping Profile**: allows for angled, lateral movement along an inclined bottom. Previously, over dredging in “steps” were required. These steps are then often filled in with capping material.

- **Venting System**: decreases downward pressure during bucket descent and seals in material during bucket ascension.

- **Center of Mass**: of material is located below the center of the bucket’s containment area minimizing material washout during bucket closing and ascension.

- **Overlapping Side Plates**: minimize outward flow (windrowing) of material during bucket closure and seals in material during bucket ascension.

- **150° Cutting Edge**: allows the bucket to “scoop” material which lowers the material’s center of mass within the containment area.

- **Level-Cut**: produces a flat surface opposed to the pothole effect which can create a pool of contamination.