

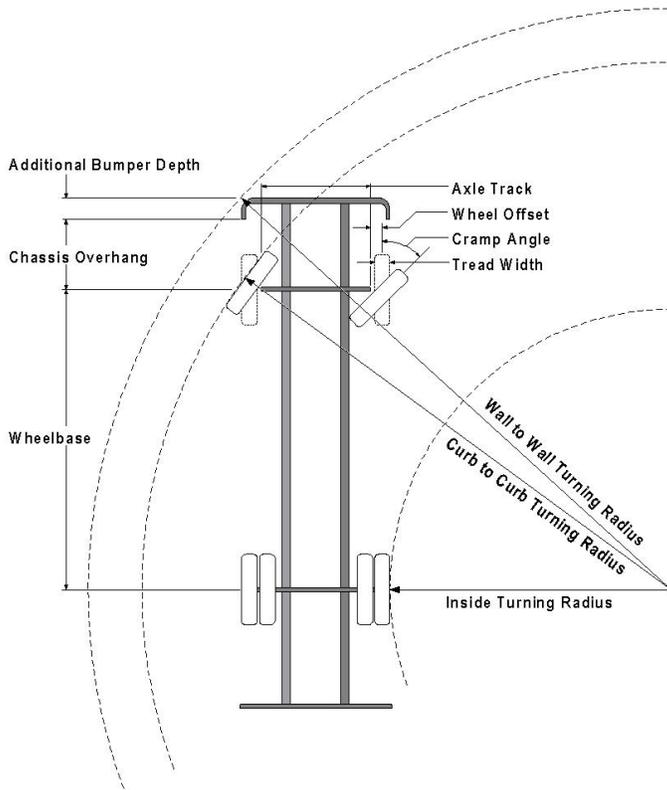


# Turning Performance Analysis

11/17/2017

**Bid Number:** 633  
**Department:** Johns Creek Fire Department

**Chassis:** Enforcer Chassis  
**Body:** Pumper, Medium, Aluminum, 2nd Gen



### Parameters:

Inside Cramp Angle:	50°
Axle Track:	85.86 in.
Wheel Offset:	3.12 in.
Tread Width:	12.4 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	22 in.
Front Overhang:	87.95 in.
Wheelbase:	187.5 in.

### Calculated Turning Radii:

Inside Turn:	12 ft. 4 in.
Curb to curb:	26 ft. 4 in.
Wall to wall:	31 ft. 2 in.

### Comments:

pumper

Category	Option	Description
Axle, Front, Custom	0637911	Axle, Front, Dana, D-2000F, 20,000 lb Saber FR/Enforcer
Wheels, Front	0019575	Wheels, Front, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot
Tires, Front	0582936	Tires, Front, Goodyear, G289 WHA, 315/80R22.50, 20 ply
Bumpers	0018193	Bumper, 22" Extended, Painted, Reinforced, Saber FR/Enforcer

### Notes:

Actual Inside cramp angle may be less due to highly specialized options.

Curb to Curb turning radius calculated for 9.00 inch curb.

---

**Definitions:**

---

Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.