



Turning Performance Analysis

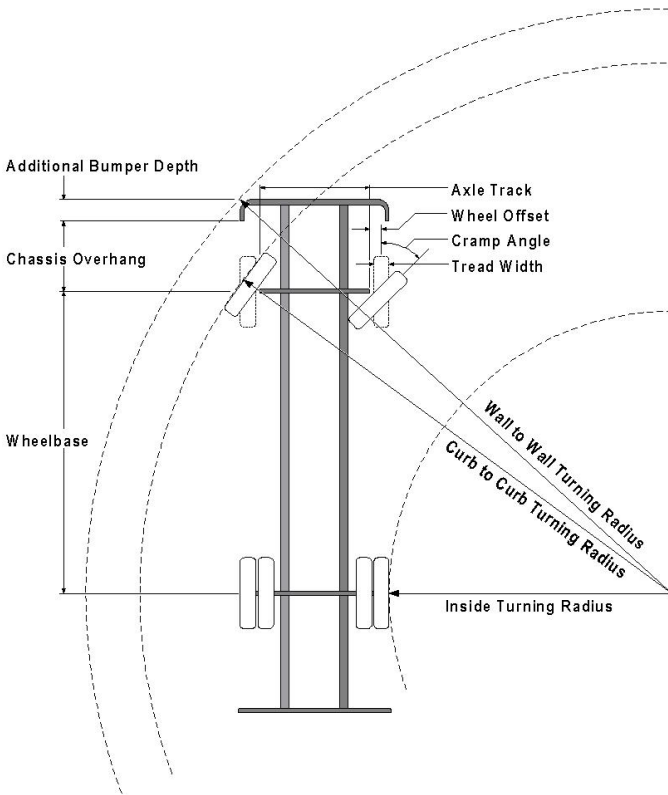
09/15/2016

Bid Number: 564

Department: Glenwood Springs Fire Department

Chassis: Arrow XT Chassis, PAP/Midmount

Body: Aerial, Platform 100', Alum Body



Parameters:

Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	16.6 in.
Chassis Overhang:	68.99 in.
Additional Bumper Depth:	16 in.
Front Overhang:	147.1 in.
Wheelbase:	256.5 in.

Calculated Turning Radii:

Inside Turn:	20 ft. 4 in.
Curb to curb:	36 ft. 6 in.
Wall to wall:	44 ft. 8 in.

Comments:

Category	Option	Description
Axle, Front, Custom	0644046	Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Qtm/AXT/DCF (425 Tires)
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Tires, Front	0679621	Tires, Front, Michelin, XZY3 (wb), 425/65R22.50, 20 ply, Fire Service Load Rtngr
Bumpers	0606501	Bumper, 16" Extended, Arrow XT
Aerial Devices	0592931	Aerial, 100' Pierce Platform, 50 MPH Wind Rating, 150lb Tip Load Allowance

Notes:

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

Curb to Curb turning radius calculated for 9.00 inch curb.

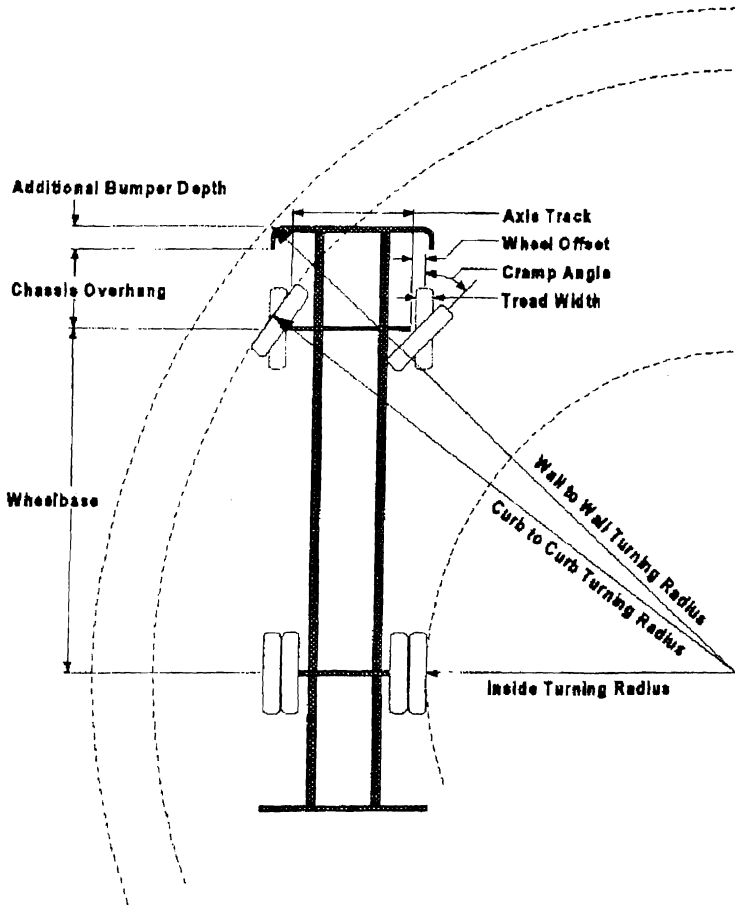
Definitions:

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.



Turning Performance Analysis

Pierce IHC 7400 Tenders



Parameters:

Inside Cramp Angle:	35.00 °
Axle Track:	85.66 in.
Wheel Offset:	6.18 in.
Tread Width:	12.50 in.
Chassis Overhang:	0.00 in.
Additional Bumper Depth:	19.00 in.
Wheelbase:	230.00 in.

Calculated Turning Radii:

Inside Turn:	26 ft. 4 in.
Curb to Curb:	40 ft. 6 in.
Wall to Wall:	41 ft. 2 in.

Comments:

Components	PRIDE #	Description
Front Axle	0000300	Axle, Front, Meritor RF-16-145 (FWD)
Front Wheels	0001653	Wheels, Frt, Steel 22.50" x 8.25" (12R22.50)
Front Tires	0001625	Tires, Goodyear, 12R22.50 16 ply high tread
Front Bumper	0003174	Bumper Extension, 19", No Tray Commercial Chassis

Notes:

- Actual Inside Cramp Angle may be less due to highly specialized options.
- Curb to Curb turning radius calculated for a 9.00 inch curb.
- Reduce turning radius by 33% if vehicle is equipped with all-wheel steer.

Front Bumper overhang
from front of front tire
3 feet

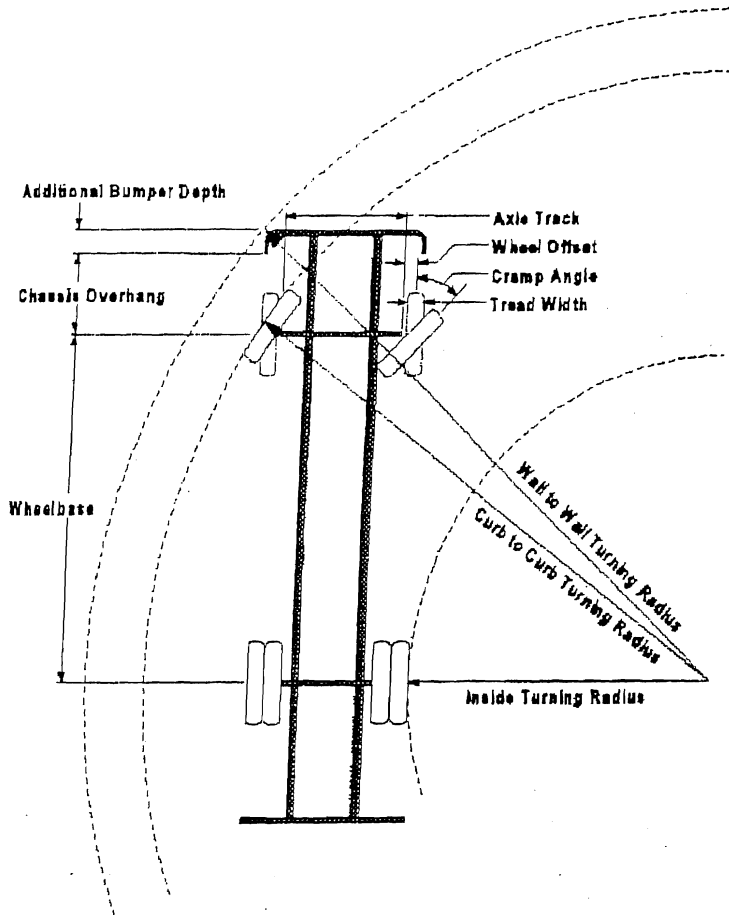
Vehicle Height	-	10 Ft. 2 In.
Vehicle Length	-	29 Ft. 3 In.
Vehicle Width	-	98 In.



Glenwood Springs Fire Dept.

Turning Performance Analysis

Pierce Dash Pumpers



Parameters:

Inside Cramp Angle:	45.00 °
Axle Track:	84.42 in.
Wheel Offset:	4.68 in.
Tread Width:	15.90 in.
Chassis Overhang:	65.99 in.
Additional Bumper Depth:	16.00 in.
Wheelbase:	195.00 in.

Calculated Turning Radii:

Inside Turn:	15 ft. 2 in.
Curb to Curb:	29 ft. 5 in.
Wall to Wall:	33 ft. 7 in.

Comments:

Components	PRIDE #	Description
Front Axle	0000272	Axle, Front, Meritor FL-943, 18,740#, w/assist, Qtrn
Front Wheels	0019611	Wheels, Frt, Alum, Alcoa, 22.50" x 12.25" (425/ & 385/)
Front Tires	0001619	Tires, Michelin, 385/65R22.50 18 ply XTE2, Hiway Rib
Chassis	0050220	Dash-2000 Chassis
Front Bumper	0012244	Bumper, 16' extended - all chassis'

Notes:

- Actual Inside Cramp Angle may be less due to highly specialized options.
- Curb to Curb turning radius calculated for a 9.00 inch curb.
- Reduce turning radius by 33% if vehicle is equipped with all-wheel steer.

Vehicle Height - 10 Ft. 3 In.

Vehicle Length - 31 Ft. 1 In.

Vehicle Width - 96 In.