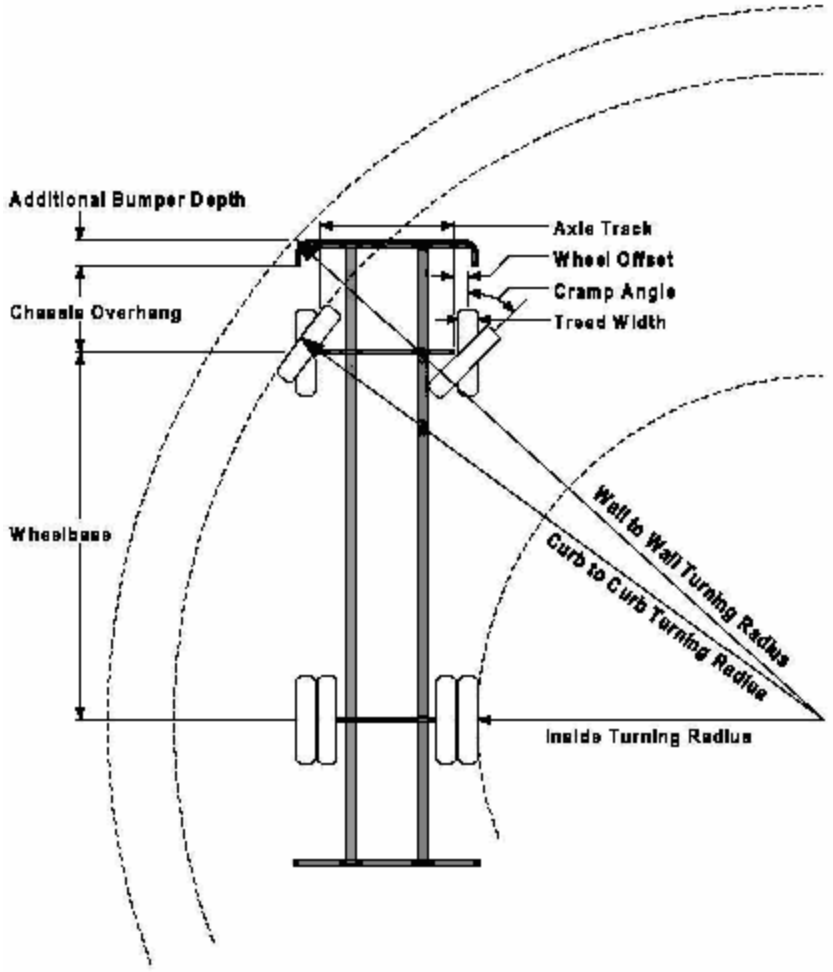
Turning Performance Analysis

4/29/2008

Bid Number: Foothills Fire Protection District
Department: 1132
Chassis: Impel Chassis
Body: HDR, Non-Walkin, Aluminum



Parameters:

Inside Cramp Angle:	45°
Axle Track:	86.17 in.
Wheel Offset:	3.12 in.
Tread Width:	12.50 in.
Chassis Overhang:	79.62 in.
Additional Bumper Depth:	7.00 in.
Front Overhang:	86.62 in.
Wheelbase:	184.00 in.

Calculated Turning Radii:

Inside Turn:	14 ft. 7 in.
Curb to Curb:	28 ft. 0 in.
Wall to Wall:	32 ft. 5 in.

Comments:

Components	PRIDE #	Description
Wheels, Front	0001655	Wheels, Frt, Steel 22.50" x 9.00" (315/80R22.50)
Tires, Front	0078242	Tires, Michelin, 315/80R22.50 20 ply XZY 3
Axle, Front, Custom	0508847	Axle, Front, Oshkosh TAK-4, Non Drive, 18,000 lb, Imp/Vel
Bumpers	0123628	Bumper, Non-extended, Imp/Vel

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.

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Definitions:

Inside Cramp Angle	Maximum turning angle of the front inside tire.
Axle Track	King-pin to king-pin distance of the 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 from the center-line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Depth	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicle's 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 inside of which the vehicle's tires can turn. This measurement assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle inside of which the entire vehicle can turn. This measurement takes into account any front overhang due to the chassis, bumper extensions and/or aerial devices.