# Driveways \＆Sidewalk <br> Requirements 

## DRIVEWAY DESIGN CRITERIA

## Driveway Dimensions：

Table 5L－4．01：Driveway Dimensions ${ }^{1}$（all dimensions are in feet）

|  |  | Major Arterial Street |  |  |  | Minor Arterial Street |  |  |  | Collector （Major and Minor） |  |  |  | Local Street |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dimen Refer （See Figure 5L－4． |  |  |  |  |  |  |  | $\begin{aligned} & \text {. } \vec{E} \\ & \text { E } \\ & \text { 苛 } \end{aligned}$ |  |  |  |  |  |  |  | $\begin{aligned} & \text { ⿹ㅡㄹ } \\ & \text { 號 } \end{aligned}$ | 篤 |
| Width Minimum Maximum | W | $\begin{aligned} & 15 \\ & 30 \end{aligned}$ | $\begin{aligned} & 24 \\ & 45 \end{aligned}$ | $\begin{aligned} & 24 \\ & 45 \end{aligned}$ | $\begin{aligned} & 20 \\ & 30 \end{aligned}$ | $\begin{aligned} & 15 \\ & 30 \end{aligned}$ | $\begin{aligned} & 24 \\ & 45 \end{aligned}$ | $\begin{aligned} & 24 \\ & 45 \end{aligned}$ | $\begin{aligned} & 20 \\ & 30 \end{aligned}$ | $\begin{aligned} & 10 \\ & 38 \end{aligned}$ | $\begin{aligned} & 24 \\ & 40 \end{aligned}$ | $\begin{aligned} & 24 \\ & 45 \end{aligned}$ | $\begin{aligned} & 20 \\ & 30 \end{aligned}$ | $\begin{aligned} & 10 \\ & 38 \end{aligned}$ | $\begin{aligned} & 24 \\ & 32 \end{aligned}$ | $\begin{aligned} & 24 \\ & 40 \end{aligned}$ | $\begin{aligned} & 20 \\ & 30 \end{aligned}$ |
| Right－turn Radius ${ }^{2}$ <br> Minimum <br> Maximum | R | $\begin{aligned} & 10 \\ & 25 \end{aligned}$ | $\begin{aligned} & 10 \\ & 35 \end{aligned}$ | $\begin{aligned} & 25 \\ & 50 \end{aligned}$ | $\begin{aligned} & 25 \\ & 35 \end{aligned}$ | $\begin{aligned} & 10 \\ & 25 \end{aligned}$ | $\begin{aligned} & 10 \\ & 35 \end{aligned}$ | $\begin{aligned} & 25 \\ & 50 \end{aligned}$ | $\begin{aligned} & 25 \\ & 35 \end{aligned}$ | $\begin{aligned} & 10 \\ & 25 \end{aligned}$ | $\begin{aligned} & 10 \\ & 35 \end{aligned}$ | $\begin{aligned} & 25 \\ & 50 \end{aligned}$ | $\begin{aligned} & 25 \\ & 35 \end{aligned}$ | 10 15 | 10 20 | $\begin{aligned} & 10 \\ & 30 \end{aligned}$ | $\begin{aligned} & 20 \\ & 35 \end{aligned}$ |
| Min．Acute Angle ${ }^{3}$ Pref．Acute Angle | A | $\begin{aligned} & 60^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 60^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 60^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $60^{\circ}$ 90 | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ | $\begin{aligned} & 70^{\circ} \\ & 90^{\circ} \end{aligned}$ |
| Min．Pavement Thickness（inches） | T | 6／8 | 7／9 | ＊ | 6 | 6 | 7 | ＊ | 6 | 6 | 7 | ＊ | 6 | 6 | 7 | ＊ | 6 |

[^0]2 foot flares（F）may be used for residential and agricultural entrances．
${ }^{3}$ Any variation from $90^{\circ}$ will be evaluated on a case by case basis．The minimum acute angle（measured from the edge of the pavement）is $60^{\circ}$ ．
${ }_{5}^{4}$ Maximum curb opening width shall not exceed 42 feet for residential driveway openings．
${ }^{5}$ All sidewalks shall be at least five（5）feet in width unless noted otherwise．
＊Requires special design．
Figure 5L－4．01：Entrance Dimensions



| JOINTS |
| :---: |
| (C) $1 / 4^{\prime \prime}$ W $\times 1-1 / 4^{\prime \prime} D$ Saw Cut |
| (E) $1 / 2^{\prime \prime}$ Expansion Joint |
| Note: Expansion joint shall be full |
| depth |
| *Joint Sealant Optional |
|  |

(10) If cross slope of adjacent sidewalk panel
exceeds $2.0 \%$, remove and replace to
transition from existing sidewalk to
sidewalk through driveway.
(-) @
(1)
(a)
(a)
(4) Sidewalk thickness through driveway to $\qquad$
( $\omega$
(N) driveway 5 feet wide to serve as a
passing space. maximum crosss slope of $2.0 \%$. If
spenified in the contract documents,
construct the sidewalk through the

For alleys, invert the pavement crown
$2 \%$ toward center of alley.
Provide 'E' joint at back of curb
Match thickness of adjacent roadway,
8 inches minimum.

 of sidewalk. Do not extend raised curb
across sidewalk. Transition the curb height to 0 inches at
end of taper/radius or at the front edge


$\Theta$ Driveway radius ( R ).

## SIDEWALK DESIGN CRITERIA

## General Specifications:

The following specifications shall apply to all sidewalks in Hiawatha unless noted otherwise:
a. Type: Sidewalks shall be Class B sidewalks placed one (1) foot from the edge of the right of way unless noted otherwise and approved by City Council.
b. Width: sidewalks shall be at least five (5) feet in width.
c. Sidewalk Thickness: Sidewalks should be constructed of PCC with a minimum thickness of 4 inches. Where sidewalks cross driveways, the minimum thickness is 6 inches, or the thickness of the driveway, whichever is greater.
d. Obstructions: All obstructions are to be removed or relocated unless prior approval by the City Engineer.
e. Transverse construction joints: Construct a $1 / 2$ inch expansion joint every 75 feet or at nearest joint for all PCC sidewalks and shared use paths.
f. Control Joints: Provide a saw cut or tooled joint spaced in increments equal to the width of the sidewalk. Saw cuts shall be $1 / 4$ " W x $1-1 / 4$ " D . Tooled joints shall be limited to $1 / 4$ " radius (Maximum).
g. Target slopes: Sidewalks shall have a target cross slope of $1.5 \%$ with a maximum cross slope of $2.0 \%$ (including sidewalk through driveway.
h. Parking slopes:
a. If parking width is less than 10 feet wide, slope at $1 / 4$ inch per foot (Maximum).
b. If parking width is 10 feet wide and greater, slope at $1 / 2$ inch per foot (Maximum).
c. Special grade may be specified in the contract documents with City Engineers approval.


CLASS B SIDEWALK

Class B


[^0]:    Major entrances require special design．

