

MENTOR CONCRETE SIDEWALK SPECIFICATIONS

TRAFFIC CONTROL:

1. Sidewalks under construction should be barricaded or fenced to protect pedestrians.

CROSS SLOPE:

1. New sidewalks should slope to the street at a rate of $\frac{1}{4}$ inch per foot.
2. For replacement slabs, match existing cross slope of sidewalk to remain in place.
3. The street edge of the sidewalk should be located above the curb $\frac{1}{2}$ inch for every foot horizontally from the curb.

MATCH EXISTING WALKS:

1. The width and location of a new sidewalk should match the width and location of existing sidewalks in the area. However, the sidewalk width shall not be reduced to less than 4 feet.
2. Sidewalk cross slope may be varied through a gradual transition to match existing adjoining walks. Contact the Engineering Department if existing adjoining walks vary significantly from existing standards.

MATERIAL AND THICKNESS:

1. Sidewalks shall be constructed of Portland cement concrete conforming to ODOT specification 499, Class C, with 5%-7% air entrainment.
2. Sidewalks shall have a minimum thickness of 4 inches. Sidewalks crossing driveways shall have a minimum thickness of 6 inches.

JOINTS AND FINISH:

1. Sidewalks should have a uniform texture with a broom finish.
2. Tooled joints are permissible. The joint depth should be $\frac{1}{4}$ the sidewalk thickness. The joint width should be minimized.
3. Sawed joints should be cut as soon as the saw can be operated without damaging the concrete. The joint depth should be $\frac{1}{4}$ the sidewalk thickness.
4. Sidewalk joints should be delineated through driveways.
5. Sidewalk joints should be spaced to form square panels.
6. Preformed expansion joints, $\frac{1}{2}$ inch in width, should be installed adjacent to all existing concrete surfaces. $\frac{1}{2}$ inch expansion material should be placed in sidewalk at 25 foot intervals.
7. A curing compound may be applied immediately following finishing operations.
8. All concrete should be protected from freezing.
9. Do not place concrete on any surface that is frozen or has frost.