### Shared Use Path

**Bollard Details**

**Other Standards Required:**
- A-80
- C-10

**Path Distance Marker Post**

**Revisions:**
- April 07, 2020
- September 20, 2017

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<th>Standard</th>
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**Removable Bollard Options**
- Concrete
- Snowmobile use is anticipated
- Wood bollard with splice plate
- Copper naphthenate solution
- Steel plate
- Steel tube painted white

**Post Lettering Notes:**
1. Lettering shall be engraved on three faces of the post on rail trails and two faces for shared use paths. The depth of the lettering shall be 1/8" at the deepest part. Lettering shall be painted with oil-based primer and two coats of oil-based plate paint. Paintwork and materials shall be furnished as approved by the engineer.
2. "MI" shall precede the path distance in miles where this marking is also shown. When used on shared use paths without railroad distance, the "MI" designation is optional.
3. "RR" shall precede the railroad distance where these posts are used on rail trails where the "MI" designation shall not be used.

**Path Subbase**
- 6" topsoil
- Crushed gravel
- Hardscapes
- Growth seed
- VTA low

**Path Surface**
- 4" solid yellow line
- Yellow line
- 4'-0" min.
- 5'-0" to 5'-0"
- 6'-0" max.

**NOTE:**
- Bollards are not a requirement at every road crossing. They are used on the Bollard Designating Bollard Path Use, and where the condition of the road and traffic dictates their use.
- May use only single bollard centered in path.
- If using more than one bollard, use an odd number with additional bollards placed beyond edge of path surface.
- Locate stop bar and sign as close to desired stopping point as possible. Stop bar and sign should not be located at or behind bollards.

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**Bollard Marking**
- 2" radius
- 45 degree chamfer
- 1"
- 2 1/2" min.
- 6" sides of bollard cap to be painted white
- Bollard and stop bar layout

**Bollard and Stop Bar Layout**
- Edge of shoulder
- Stop bar
- Stop sign
- 4'-0" min.

**Section A-A**
- Plan view
- Post installation detail

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**Bollard Design Notes:**
- Bollards shown are intended for use where a "removable" type bollard is desired. They are to provide maintenance or back-up vehicle access if to facilitate snowboard use.
- Alternative removable/replaceable bollard designs may be approved by the Engineer.
- Bollard design shall conform with appropriate state or local maintenance entity.