1. Consider adding temporary emergency pull-off areas when any of the following conditions exist:
   A. Both left and right shoulders will be closed simultaneously for a distance greater than 0.50 miles.
   B. Projects have been identified as "significant projects" (see page 1 of the CoCD Manual).
   C. On divided highways with six or more lanes in each direction, the left or right shoulder(s) to be closed.
   D. High crash locations have been identified within or near the work zone limits.
   E. Alternative places of refuge do not exist nearby.

2. "Shoulder closed, emergency pull-off area" signs and placards shall be mounted on the side of the roadway where the shoulder is affected to indicate usage of these signs on the opposite side of divided highways is optional. All other signs on both sides of the work-affected roadway on divided highways.

3. For shoulder closures greater than 0.50 miles in length, multiple emergency pull-off areas may be used at a spacing of 0.50 mile minimum and 1 mile maximum, or where appropriate, as designated by the Engineer.

4. Emergency pull-off areas should not be located where adequate sight distance for acceleration and deceleration maneuvers would not exist. The location of temporary traffic barriers and construction activities occurring on a major highway should be evaluated with a view to whether motorists will have adequate sight distance through a horizontal curve.

5. When temporary emergency pull-off areas are intended to serve as an accident investigation area, law enforcement personnel should be involved early in creating the traffic control plan.

6. For shoulder closures greater than 0.50 miles in length, advanced warning signs should be placed as follows:
   A. Placed adjacent to the first "shoulder closed" advanced warning sign in sequence.
   B. Place shoulder closed advanced warning signs should be replaced with either:
      - A "no emergency pull-off area" if no pull-off areas are provided throughout the work area, or
      - A "emergency pull-off area" advance warning sign with a W16-30 plaque and emergency pull-off areas are provided throughout the work area.

7. The temporary concrete barrier shall be tied to an existing structure or graded. Flared or extended to meet clear zone requirements, or fitted with an impact attenuator device.