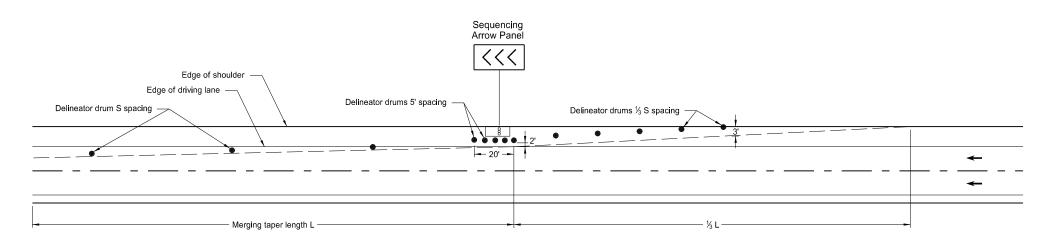
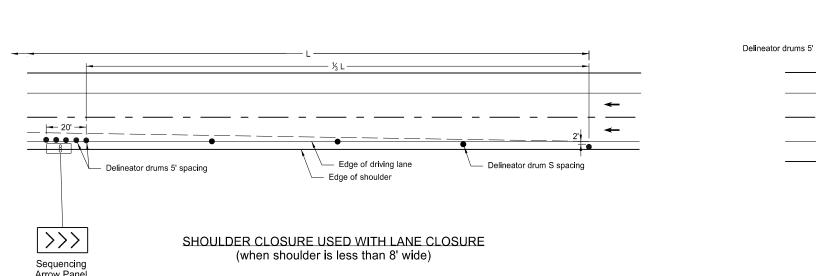
SHOULDER CLOSURE TAPERS



SHOULDER CLOSURE WITH LANE CLOSURE (when shoulder is 8' or wider)



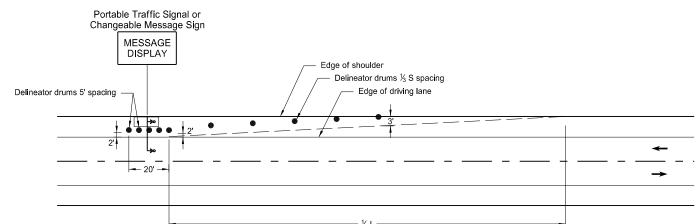
∞ Sequencing Arrow Panel

Portable Traffic Signal

KEY

Delineator Drum

Message Display



PORTABLE TRAFFIC SIGNAL OR CHANGEABLE MESSAGE SIGN ON SHOULDER

Notes:

- S = Posted Speed Limit in mph W = Width of offset in feet
 - L = Taper length in feet L = WS²/60 (40mph or less)
- L = WS (45mph or more)
- 2. If a shoulder taper is used, use a length of approximately 1/3L. If a shoulder is used as a travel lane, use a normal merging or shifting taper.
- When paved shoulders of 8 foot width or more are closed, use channelizing devices to close shoulder in advance, to delineate beginning of work space, and to direct vehicular traffic to remain within the traveled way.

NORTH DAKOTA	
DEPARTMENT OF TRANSPORTATION	
10-3-13	
REVISIONS	
DATE	CHANGE
	Updated to active voice Added L dimension to detail

This document was originally issued and sealed by Kirk J Hoff, Registration Number PE-4683, on 10/25/19 and the original document is stored at the North Dakota Department of Transportation