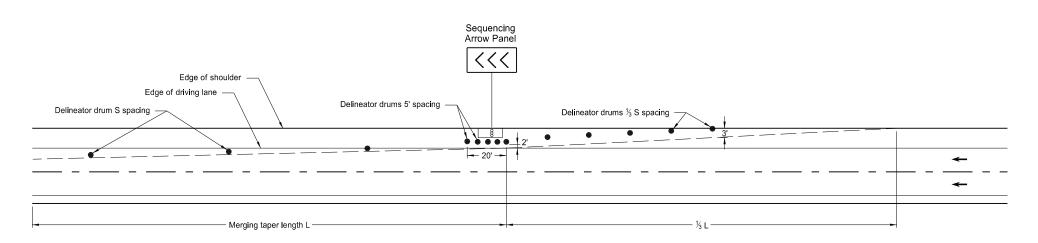
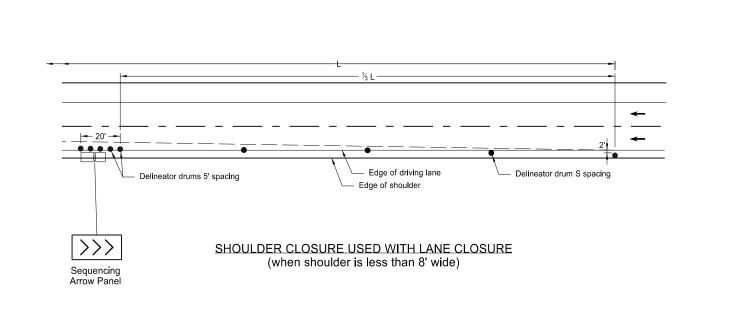
## SHOULDER CLOSURE TAPERS



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

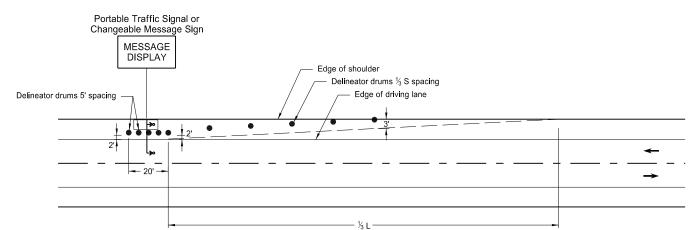


KEY

Sequencing Arrow Panel Portable Traffic Signal

Delineator Drum

Message Display



## PORTABLE TRAFFIC SIGNAL OR CHANGEABLE MESSAGE SIGN ON SHOULDER

- S = Posted Speed Limit in mph
  W = Width of offset in feet
  L = Taper length in feet
  L = WS<sup>2</sup>/60 (40mph or less)
  L = WS (45mph or more)
- 2. If a shoulder taper is used, use a length of approximately % L. 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	
	10-25-19	Updated to active volce Added L dimension to detall Electronic Stamp/Signature	

