

Ramp exit pavement shall be the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 1473 square yards.

Special shaping of area between lines A and B may be required to assure proper drainage.

For jointing layout, see Standard Road Plan RV-10.

This design is based on 60 mph design speed at  $e_{max} = 6\%$ .

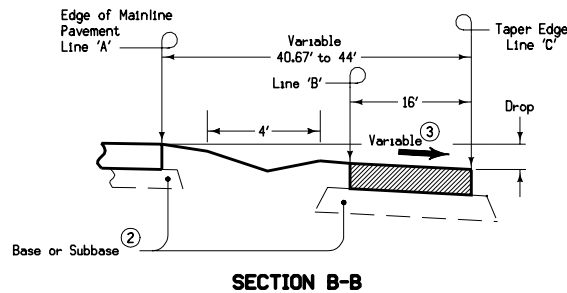
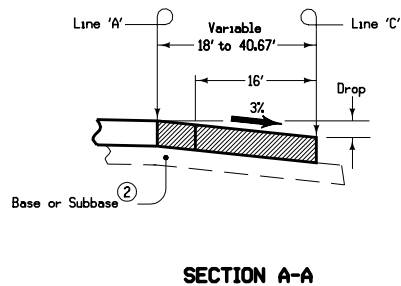
- ① For header construction details at the beginning of taper, refer to Typical 7101 or Typical 7102.
- ② Subbase for ramp exit pavement shall be the same thickness as mainline subbase.
- ③ The ramp pavement cross slope between (K) and (M) is determined by superelevation rotated about line C. Refer to Standard Road Plan RP-3 and plans for superelevation transition requirements.

TABLE OF SHOULDER TRANSITION LENGTHS			
W <sub>0</sub>	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	60'	90'
14'	30'	60'	NA

NOTE: W<sub>0</sub> is the width of the outside lane to the Edge of Pavement.

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																													
DISTANCE (Ft.)	660	650	625	600	575	550	525	500	475	450	425	400	390	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0
OFFSET (Ft.)	0	0.67	2.33	4.00	5.67	7.33	9.00	10.67	12.33	14.00	15.67	17.33	18.00	19.00	20.67	22.33	24.00	25.67	27.33	29.00	30.67	32.33	34.00	35.67	37.33	39.00	40.67	42.33	44.00
DROP (Ft.)	0	0.02	0.07	0.12	0.17	0.22	0.27	0.32	0.37	0.42	0.47	0.52	0.54	0.57	0.62	0.67	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07	1.12	1.17	1.22	1.27	1.32

NOTE: The elevations at edge of taper from BEGIN TAPER to POINT 'M' are established by a constant 3% slope across the appropriate taper widths based on the Taper Ratio of 15:1, Drop = (0.03) x (Offset).



<p>Iowa Department of Transportation</p> <p><b>STANDARD ROAD PLAN</b></p> <p>REVISIONS: Corrected circle note 2. Removed mainline pavement and shoulder widths. Added table for shoulder transition distance.</p> <p><i>Deanna Mufjelt</i> APPROVED BY DESIGN METHODS ENGINEER</p>	<p>REVISION</p> <p>5   10-21-08</p>
	<p><b>RV-4</b></p> <p>SHEET 1 of 1</p>
	<p><b>DECELERATION TAPER FOR 16' EXIT RAMP</b></p>