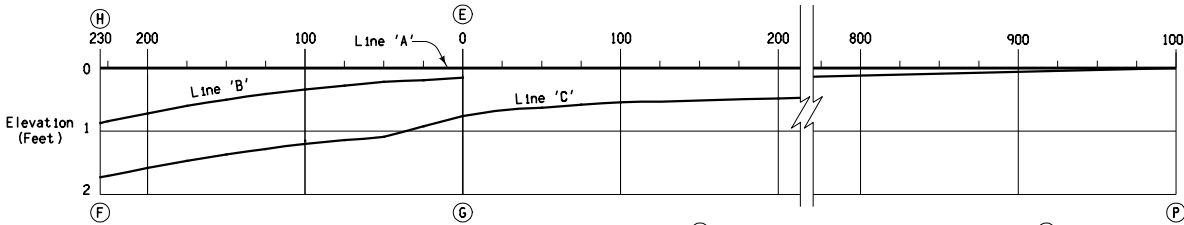


PLAN VIEW



PROFILE

Ramp entrance pavement shall be the same thickness as mainline pavement.
 Ramp entrance pavement shown by shaded area is 1884 square yards.
 Special shaping of area between lines A and B may be required to assure proper drainage.
 For joining layout, see Standard Road Plan RV-10.
 This design is based on 60 mph design speed at e max = 6%.

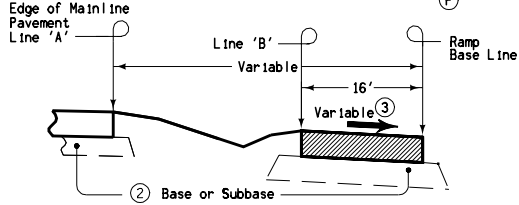
- ① For header construction details at the beginning of taper, refer to Typical 7101 or Typical 7102.
- ② Subbase for ramp entrance pavement shall be the same thickness as mainline subbase.
- ③ The ramp pavement cross slope between (J) and (F) is determined by superelevation rotated about line C. Refer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

TABLE OF SHOULDER TRANSITION LENGTHS			
W ₀	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	200'	300'
14'	100'	200'	NA

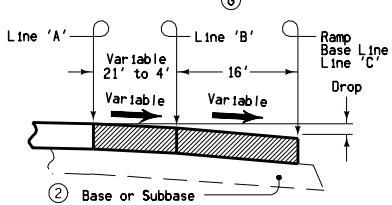
NOTE: W₀ is the width of the outside lane to the Edge of Pavement.

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER

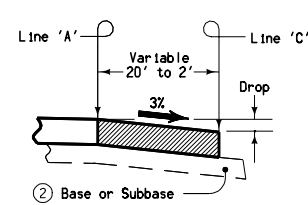
Distance From Point (E) Along Line 'A' (Ft.)	230	225	200	175	150	125	100	75	50	25	0	25	50	75	100	200	300	400	500	600	700	800	900	1000
From Line 'A' To Line 'B'	Offset (Ft.)											Constant 4.0% Slope												
	21.76	21.09	17.94	15.10	12.57	10.36	8.47	6.88	5.61	4.65	4.0													
	Drop (Ft.)											Constant 3.78% Slope												
	0.87	0.84	0.72	0.60	0.50	0.41	0.34	0.28	0.22	0.19	0.15													
From Line 'B' To Line 'C'	Offset (Ft.)											Constant 16.0' Offset												
	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	4.60	3.78													
	Drop (Ft.)											Constant 3.0% Slope												
	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.73	0.60													
From Line 'A' To Line 'C'	Offset (Ft.)											Constant 3.0% Slope												
												19.5	19.0	18.5	18.0	16.0	14.0	12.0	10.0	8.0	6.0	4.0	2.0	0.0
	Drop (Ft.)											Constant 3.44% Slope												
	1.73	1.71	1.58	1.47	1.37	1.28	1.20	1.14	1.09	0.92	0.76	0.67	0.63	0.58	0.54	0.48	0.42	0.36	0.30	0.24	0.18	0.12	0.06	0.0
Distance From Point (G) Along Line 'C' (Ft.)	228.66	223.74	198.66	173.70	148.77	123.87	99.00	74.15	49.31	24.49	0.00													



SECTION A-A



SECTION B-B



SECTION C-C

STANDARD ROAD PLAN

REVISIONS: Corrected circle note 2. Removed mainline pavement and shoulder widths. Added table for shoulder transition distance.

Deanna Muford
APPROVED BY DESIGN METHODS ENGINEER

REVISION

5	10-21-08
---	----------

RV-5

SHEET 1 of 1

ACCELERATION TAPER FOR 16' ENTRANCE RAMP