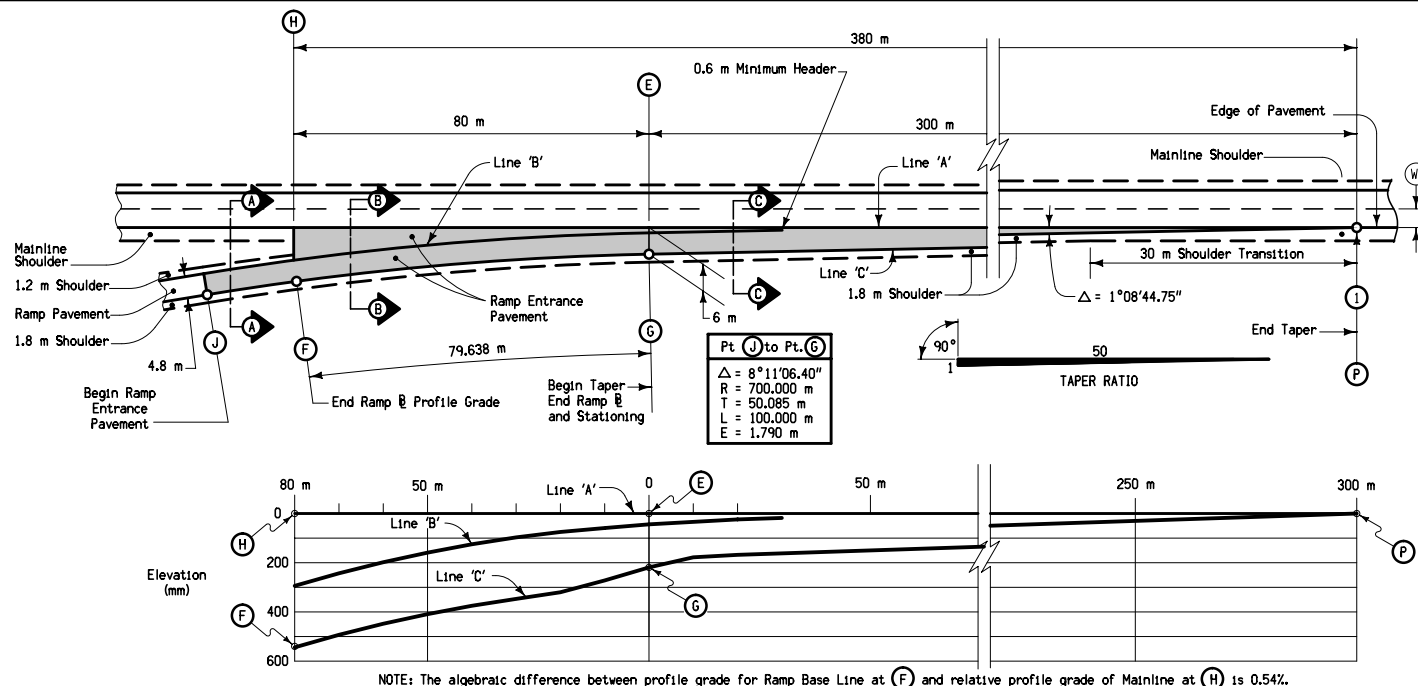
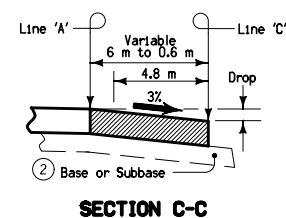
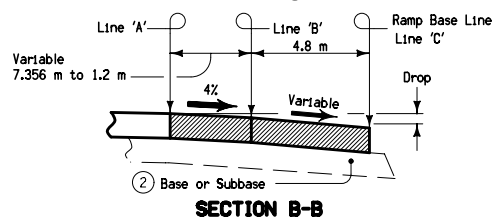
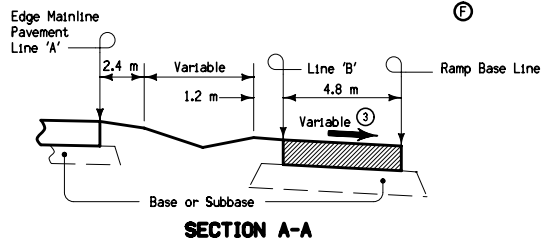




PROFILE

TABLE OF OFFSETS AND DROPS FOR 4.8 m RAMP TAPER

Distance From Point (E) Along Line A (m)	80	70	60	50	40	30	20	10	0	10	20	50	100	150	200	250	300
From Line 'A' To Line 'B'	Offset (m)	7.356	6.083	4.955	3.971	3.131	2.435	1.880	1.469	1.200							
	Slope (%)				Constant 4.00% Slope												
	Drop (mm)	294	243	198	159	125	97	75	59	44							
From Line 'B' To Line 'C'	Offset (m)				Constant 4.8 m Offset												
	Slope (%)	5.20	5.20	5.20	5.20	5.20	5.20	5.10	4.44	3.64							
	Drop (mm)	250	250	250	250	250	250	245	213	175							
From Line 'A' To Line 'C'	Offset (m)									6.000	5.800	5.600	5.000	4.000	3.000	2.000	0.000
	Slope (%)									3.64	3.07	3.00	Constant 3.00%				
	Drop (mm)	544	493	448	409	375	347	320	272	219	178	168	150	120	90	60	30
Distance From Point (G) Along Line C (m)	79.638	69.626	59.631	49.651	39.684	29.728	19.780	9.840	0.000								



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

Ramp entrance pavement shown by shaded area is 1345 square meters.

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 100 km/h design speed at $e_{max} = 6\%$.

- For header construction details at the beginning of taper, refer to Typical 7101 or Typical 7102.
- Subbase for ramp entrance pavement shall be the same thickness as mainline subbase.
- 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		
	2.4m	3m	3.6m
3.6m	NA	60m	90m
4.2m	30m	60m	NA

NOTE: W_0 is the width of the outside lane to the Edge of Pavement.

All dimensions given in millimeters unless noted.

METRIC VERSION		Iowa Department of Transportation	REVISION 5 04-21-09
		STANDARD ROAD PLAN	RV-5
		SHEET 1 of 1	
		REVISIONS: Corrected circle note 2. Removed mainline pavement and shoulder widths. Added table for shoulder transition distance. (Metrics Re-instated.)	
		Deanna Mifflin APPROVED BY DESIGN METHODS ENGINEER	
ACCELERATION TAPER FOR 4.8 m ENTRANCE RAMP			