

Pt. 'G' to Pt. 'J'
$\Delta = 09^{\circ}31'13.98''$
$T = 166.55'$
$L = 332.33'$
$E = 6.92'$
$R = 2000.00'$

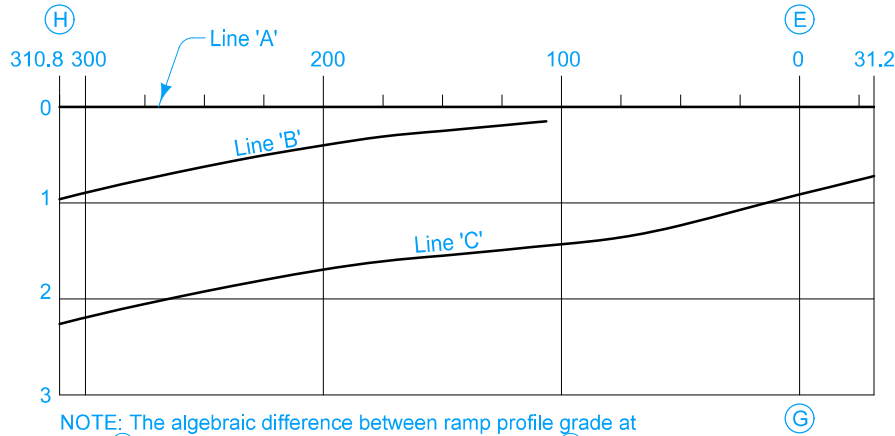


TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																		
DISTANCE FROM POINT (H) ALONG LINE 'A' (Ft.)	310.8	300	275	250	225	200	175	150	125	106.4	100	75	65	50	25	0	25	31.2
From Line 'A' To Line 'B'	OFFSET (Ft.)	24.00	22.36	18.77	15.50	12.55	9.91	7.58	5.57	3.86	2.80							
	SLOPE (%)	Constant 4.0% Slope										4.51	5.02	5.40				
	DROP (Ft.)	0.96	0.89	0.75	0.62	0.50	0.40	0.30	0.25	0.19	0.15							
From Line 'B' To Line 'C'	OFFSET (Ft.)	Constant 24' Offset																
	SLOPE (%)	Constant 5.4% Slope																
	DROP (Ft.)	Constant 1.30' Drop																
From Line 'A' To Line 'C'	OFFSET (Ft.)										26.50	25.41	25.06	24.63	24.16	24.00	24.00	24.00
	SLOPE (%)										5.40	5.40	5.40	5.04	4.41	3.78	3.15	3.00
	DROP (Ft.)	2.26	2.19	2.05	1.92	1.80	1.69	1.60	1.55	1.49	1.45	1.43	1.37	1.35	1.24	1.07	0.91	0.72
DISTANCE FROM POINT (F) ALONG LINE 'C' (Ft.)	308.30	297.54	272.58	247.67	202.79	197.95	173.14	148.36	123.60	105.21	100.04	75.02	65.01	50.01	25.00	0.00		

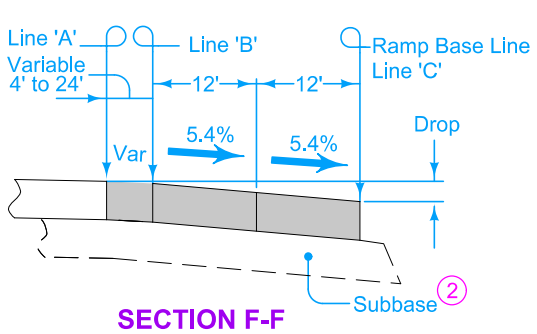
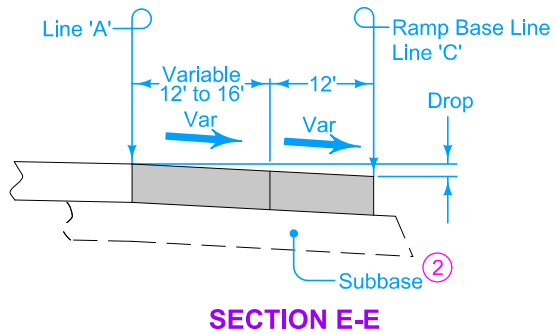
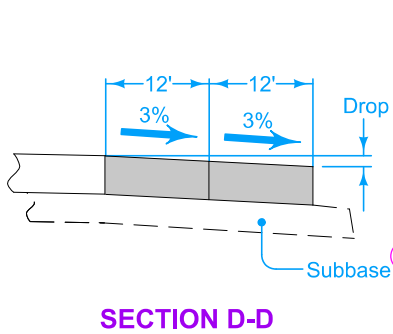
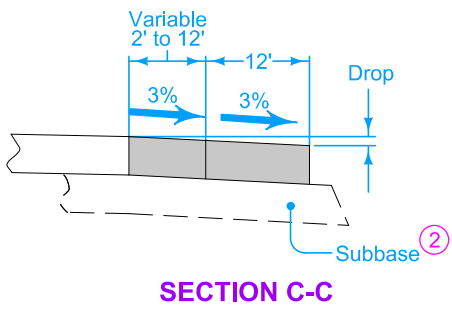
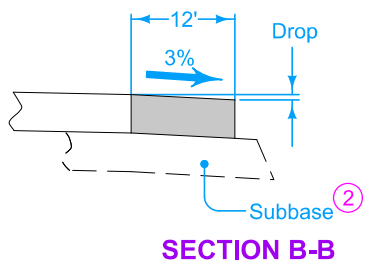
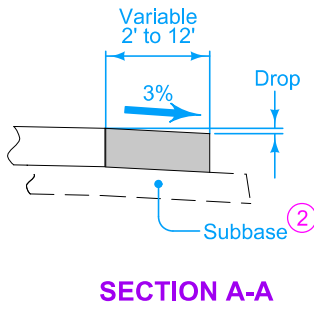


TABLE OF SHOULDER TRANSITION LENGTHS WITH 6' SHOULDER ON RAMP			
(W ₀)	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	200'	300'

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

Construct ramp entrance pavement the same thickness as mainline pavement.

For joint detail, see PV-101.

① For header construction detail at the end of taper See Typical 7101 or Typical 7102.

② Construct subbase for ramp entrance pavement the same thickness as mainline subbase.

ROAD DESIGN DETAIL

REVISIONS: Removed KT joint option.

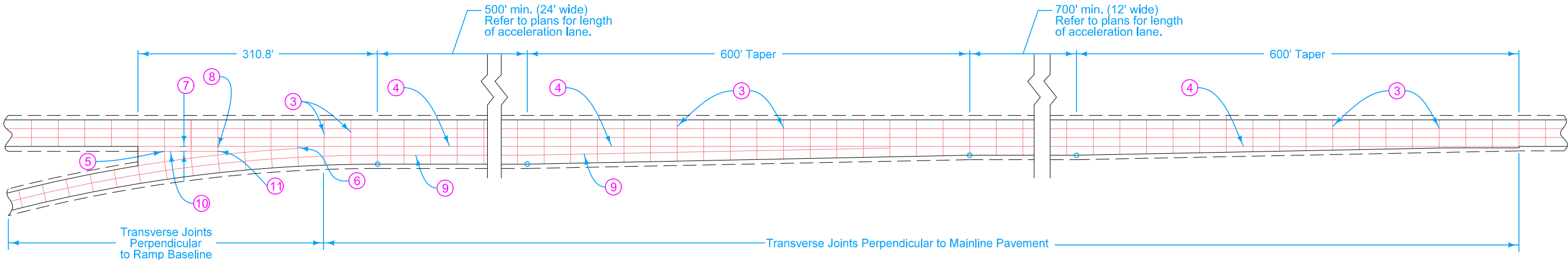
REVISION

410-21-25

533-05

SHEET 1 of 2

PARALLEL ACCELERATION TAPER
FOR 24' RAMP
(60 MPH DESIGN SPEED)



- ③ 'CD ' Joints at 17' spacing.
- ④ 'BT-2' Joint.
- ⑤ 'C' Joint.
- ⑥ 'B' Joint. 2' minimum, 4' maximum.
- ⑦ 10' minimum or equal to mainline shoulder width.
- ⑧ Construct transverse joints through the gore perpendicular to mainline pavement.
- ⑨ 'L-2' Joint.
- ⑩ 'C' Joint parallel to mainline pavement.
- ⑪ 'B' or 'C' Joint. 2' minimum, 4' maximum.

IOWA DOT ROAD DESIGN DETAIL	REVISION	
	4	10-21-25
	533-05 SHEET 2 of 2	
REVISIONS: Removed KT joint option.		
PARALLEL ACCELERATION TAPER FOR 24' RAMP (60 MPH DESIGN SPEED)		