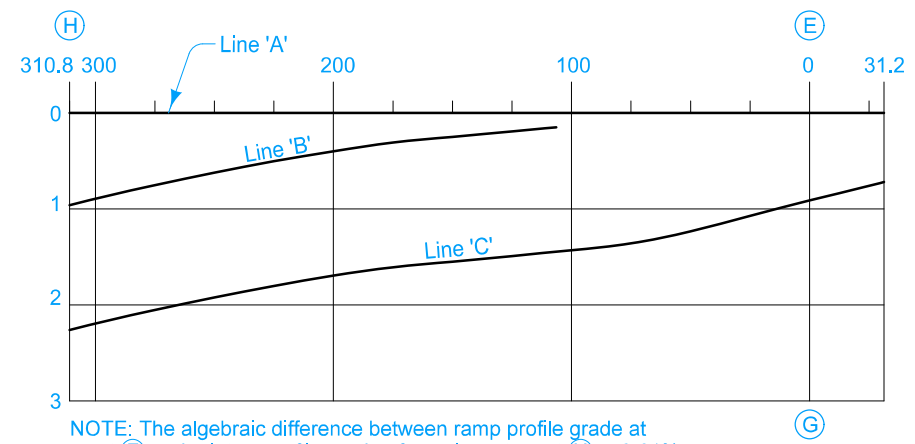
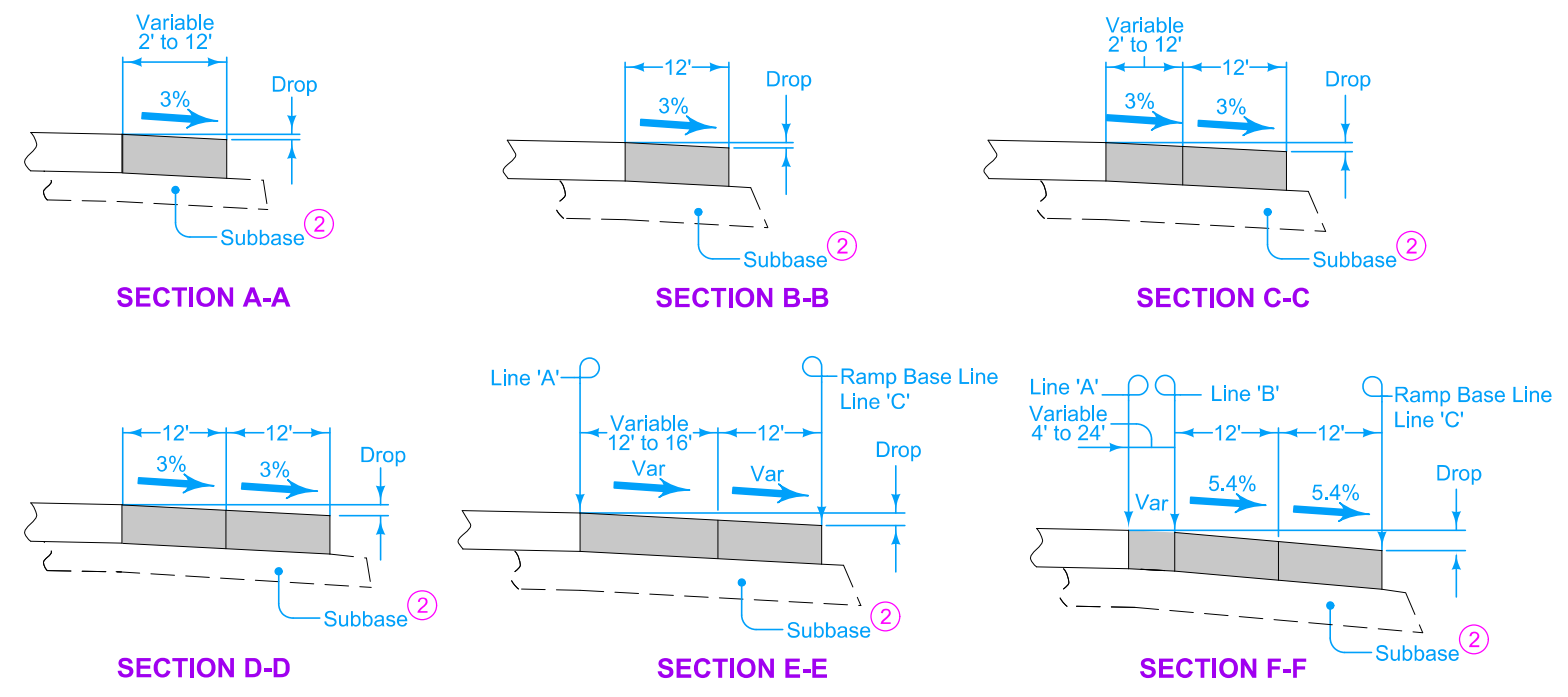


Pt. 'G' to Pt. 'J'
 $\Delta = 09^\circ 31' 13.98''$
 $T = 166.55'$
 $L = 332.33'$
 $E = 6.92'$
 $R = 2000.00'$



NOTE: The algebraic difference between ramp profile grade at point (F) and relative profile grade of mainline at point (H) is 0.61%

		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	0.76	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				



- 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.

W _o	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	200'	300'

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

ROAD DESIGN DETAIL

REVISION
3 04-20-21

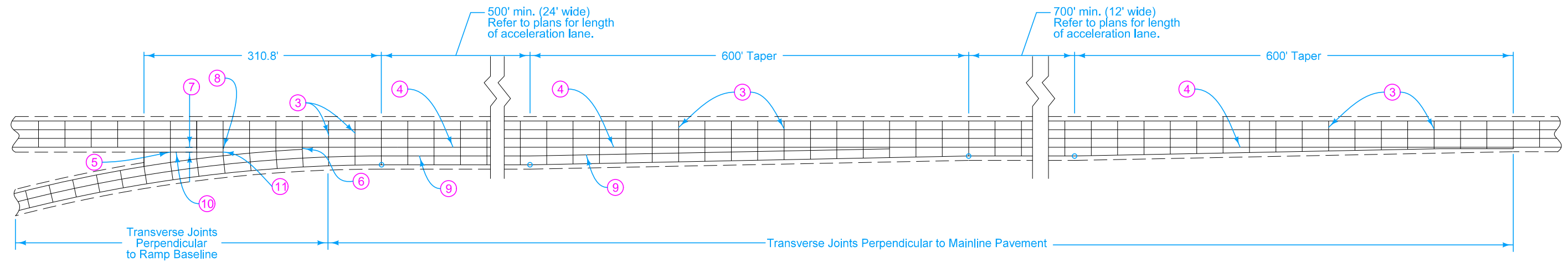
533-05

SHEET 1 of 2

REVISIONS: Added Point J and Ramp Profile note.

Shawn Miller

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



- ③ 'CD' Joints at 17' spacing.
- ④ 'BT-2' or 'KT-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.

 ROAD DESIGN DETAIL	REVISION	
	3	04-20-21
	533-05	
SHEET 2 of 2		

REVISIONS: Added Point J and Ramp Profile note.

Stuart Miller

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