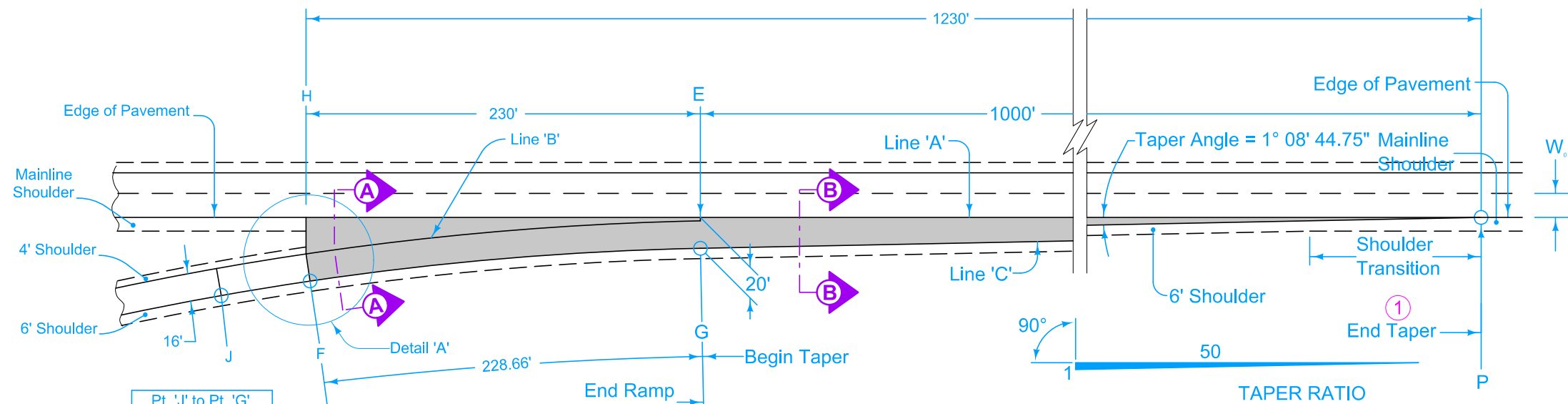
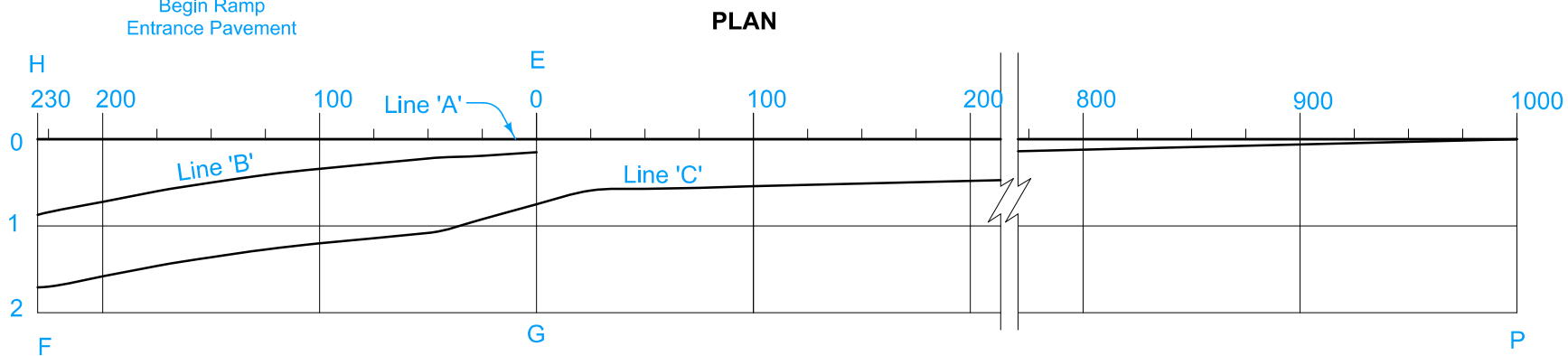


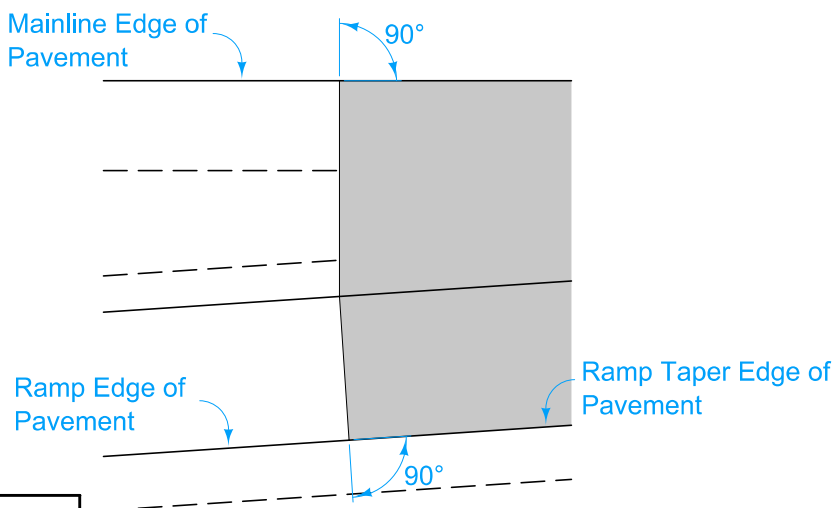


Pt. 'J' to Pt. 'G'
 $\Delta = 8^\circ 01' 17.07''$
 $T = 140.23'$
 $L = 280.00'$
 $E = 4.91'$
 $R = 2000.00'$

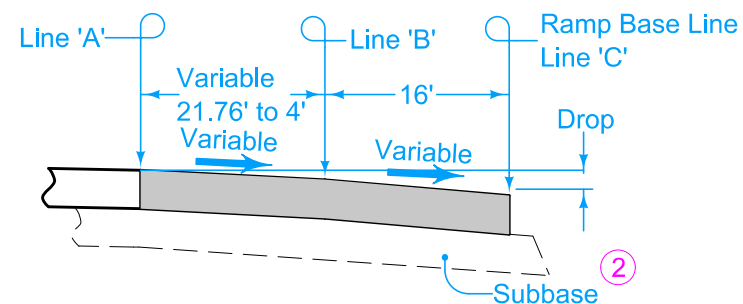


NOTE: The algebraic difference between profile grade for Ramp Base Line at F and relative profile grade of Mainline at H is 0.54%.

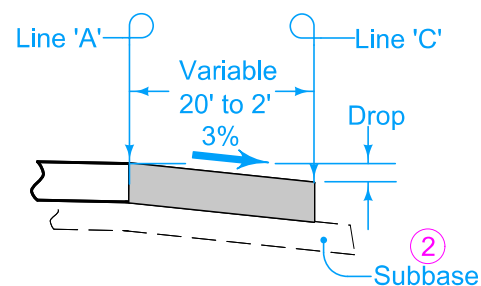
TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER	
Distance From Point E Along Line 'A' (Ft.)	230 225 200 175 150 125 100 75 45.4 25 0 21.8 50 75 100 200 300 400 500 600 700 800 900 1000
From Line 'A' To Line 'B'	
Offset (Ft.)	21.76 21.10 17.95 15.11 12.59 10.38 8.48 6.90 5.41 4.66 4.0
Slope (%)	Constant 4.0% Slope
Drop (Ft.)	0.87 0.84 0.72 0.60 0.50 0.42 0.34 0.28 0.22 0.19 0.15
From Line 'B' To Line 'C'	
Offset (Ft.)	Constant 16.0' Offset
Slope (%)	5.40 5.40 5.40 5.40 5.40 5.40 5.40 5.40 5.40 4.67 3.78
Drop (Ft.)	0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.75 0.60
From Line 'A' To Line 'C'	
Offset (Ft.)	
Slope (%)	Constant 3.0% Slope
Drop (Ft.)	1.73 1.70 1.58 1.46 1.36 1.28 1.20 1.14 1.08 0.94 0.75
Distance From Point G Along Line 'C' (Ft.)	228.66 223.66 198.66 173.70 148.77 123.87 99.00 74.15 45.40 24.49 0.00



DETAIL A



SECTION A-A



SECTION B-B

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

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

Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1793 square yards.

For joint details, see PV-101

① For header construction details at the end of taper, see Typical 7101 or Typical 7102.

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

STANDARD ROAD PLAN

REVISIONS: Updated table.

APPROVED BY DESIGN METHODS ENGINEER

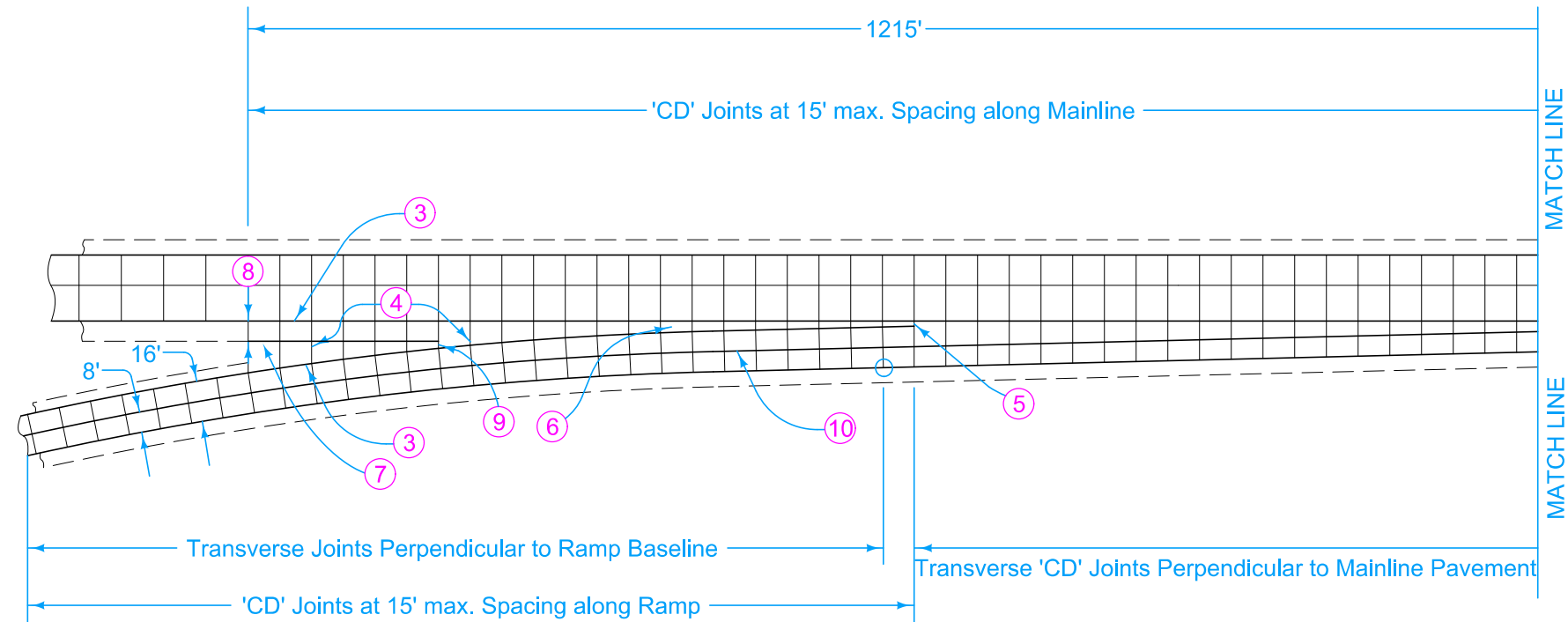
REVISION

8 04-21-26

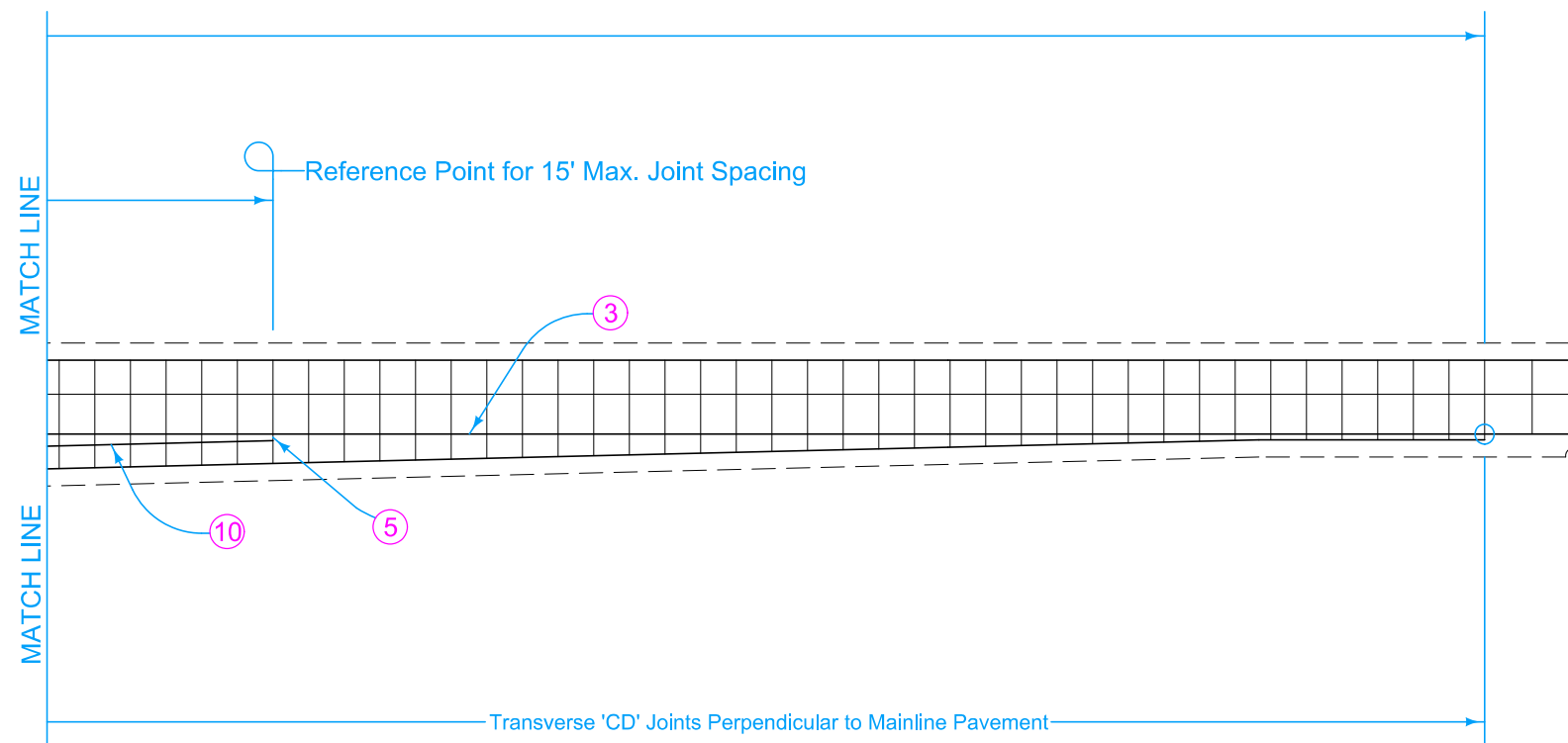
PV-411

SHEET 1 of 2

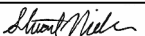
ACCELERATION TAPER FOR 16' ENTRANCE RAMP



- ③ 'BT-2' Joint.
- ④ 'C' Joint.
- ⑤ 'B' Joint. 2' minimum, 4' maximum.
- ⑥ Construct transverse joints on the entrance ramp taper perpendicular to the tapered edge where the gore area is greater than 4 feet.
- ⑦ 'C' Joint equal to mainline shoulder width.
- ⑧ 10' minimum, or equal to mainline shoulder width.
- ⑨ 'B' or 'C' Joint. 2' minimum. 4' maximum.
- ⑩ 'L-2' Joint.



16' ENTRANCE RAMP

 IOWA DOT	REVISION	
	8	04-21-26
	PV-411	
	SHEET 2 of 2	
REVISIONS: Updated table.		
		
APPROVED BY DESIGN METHODS ENGINEER		
ACCELERATION TAPER FOR 16' ENTRANCE RAMP		