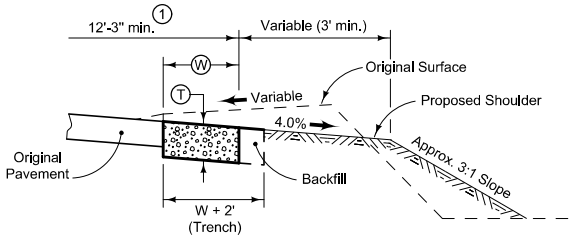
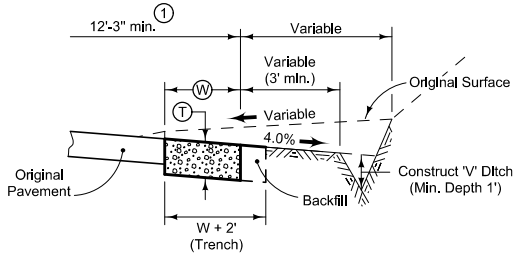


TYPE 'A'



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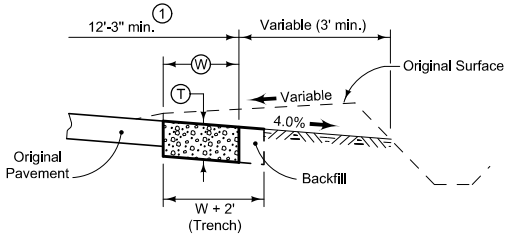
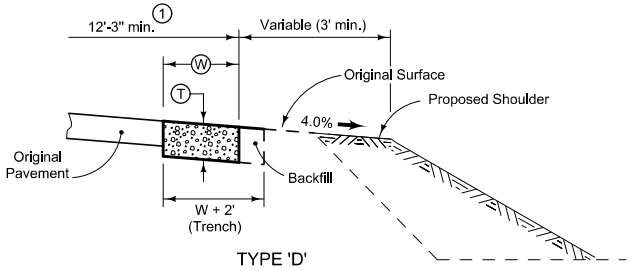
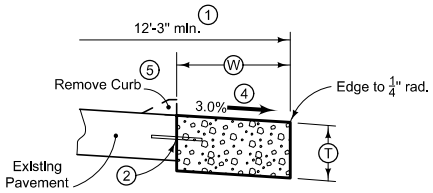


TYPE 'C'



TYPE 'D'

SHOULDERS FOR PAVEMENT WIDENING



PAVEMENT WIDENING

'W' and 'T' are specified by the individual project plans. Dimensions may vary for superelevated curves or at locations specifically designated by the Engineer.

For Joints in the widening unit, refer to the specifications and PV-101.

Install contraction joints adjacent to all existing joints or at the interval specified on the plans. Extend existing expansion joint through the widening unit. This work is incidental to other work on the project.

Dispose of excavation from Type 'A' and 'D' shoulders in the immediate area. Haul excavation from Type 'B' and 'C' shoulders to Type 'A' and 'D' shoulder areas, and dispose of in areas specifically designated by the Engineer. When directed by the Engineer, dispose of surplus excavation on foreslopes of superelevated curves that require extra width of roadbed to accommodate future wedge courses.

Construct special shaping of widening units through bridge approach sections per directions by the Engineer. The joint between the widening unit and the end of a bridge consists of a 3 inch wide joint filled with full depth bituminous resilient filler as specified in Article 4136.03, Paragraph A.

Excavation in excess of that indicated is incidental to other work on the project.

(1) Minimum surface dimension is based on accommodating 3 inches of resurfacing. Where thickness other than 3 inches is provided, modify the surface width appropriately.

(2) 'BT-3' placed at mid-height unless otherwise noted.

(3) Quantities indicated are for design purposes and may be adjusted at time of construction when so directed by the Engineer. Quantities listed are for two sides per station.

(4) For ramps and superelevated curves, match the cross-slope of the widening unit to the existing pavement.

(5) See Section 2514 of the Standard Specifications.

DESIGN QUANTITIES FOR PAVEMENT WIDENING (3)

W feet		T 7"	7.5"	8"	8.5"	9"	9.5"	10"
2	Surface Area, Sq. Yd.	44.44	44.44	44.44	44.44	44.44	44.44	44.44
	Volume, Cu. Yd.	8.64	9.26	9.88	10.49	11.11	11.73	12.35
	Trench Excavation, Cu. Yd.	17.28	18.52	19.75	20.99	22.22	23.46	24.69
3	Surface Area, Sq. Yd.	66.67	66.67	66.67	66.67	66.67	66.67	66.67
	Volume, Cu. Yd.	12.96	13.89	14.81	15.74	16.67	17.59	18.52
	Trench Excavation, Cu. Yd.	21.60	23.15	24.69	26.23	27.78	29.32	30.86
4	Surface Area, Sq. Yd.	88.89	88.89	88.89	88.89	88.89	88.89	88.89
	Volume, Cu. Yd.	17.28	18.52	19.75	20.99	22.22	23.46	24.69
	Trench Excavation, Cu. Yd.	25.93	27.78	29.63	31.48	33.33	35.19	37.04

Iowa Department of Transportation

STANDARD ROAD PLAN

REVISION: 16 | 04-19-11

RG-1

SHEET 1 of 1

REVISIONS: Updated references to renamed standards.

Deanna Maifield
APPROVED BY DESIGN METHODS ENGINEER

P.C. CONCRETE PAVEMENT WIDENING