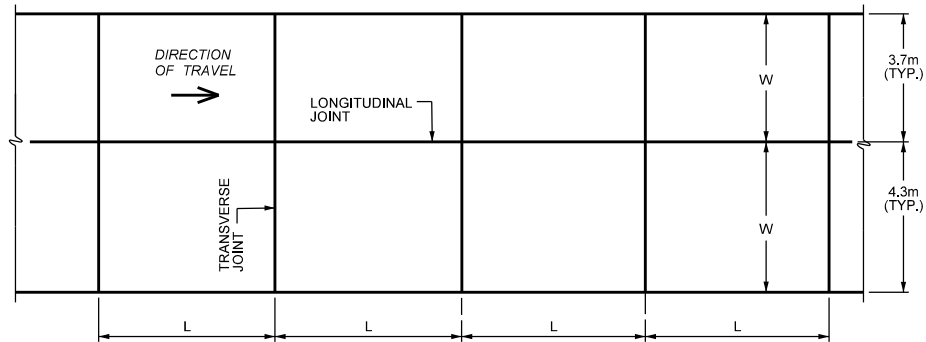


T = DESIGN THICKNESS OF CONCRETE LAYER
(EXCLUDING LOSS FOR DIAMOND GROUND TEXTURING)

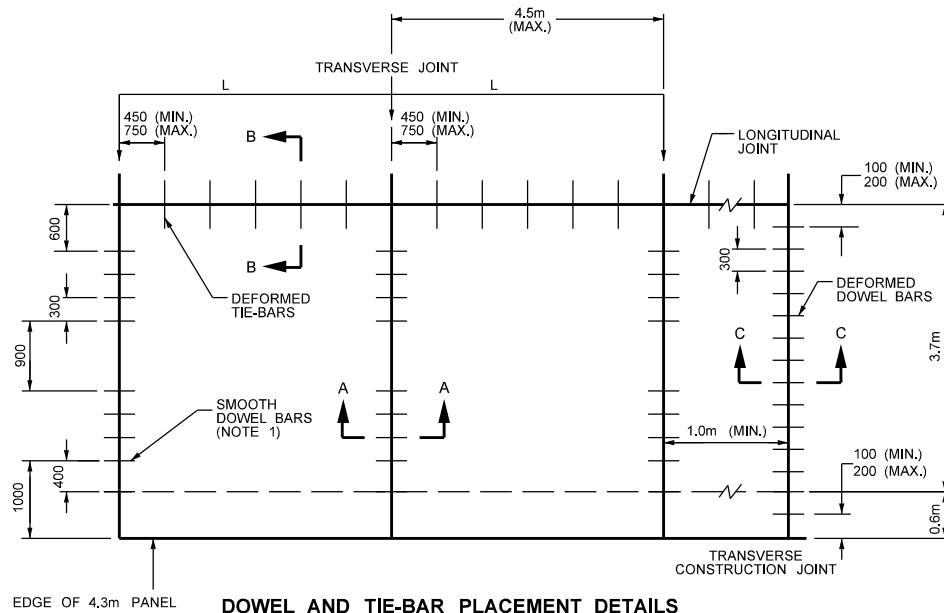
L = LENGTH OF CONCRETE PANEL IN DIRECTION OF TRAVEL = 20 x T (4.5m MAX.)

W = WIDTH OF CONCRETE PANEL (TYP. 4.3m OUTER PANEL AND 3.7m INNER PANEL)

- NOTES:**
1. EIGHT (8) DOWELS PER PANELS IN TRAVERSE CONTRACTION JOINTS
 2. ASPECT RATIO BETWEEN PANEL WIDTH AND LENGTH = 1.25 (MAX.)
 3. FOR CONCRETE JOINT, STEEL, AND SAW CUT DETAILS, REFER TO MSD 830.1 SHEETS 2, 3, AND 4
 4. FOR DETAILS OF EXPANSION AND ISOLATION JOINTS, REFER TO MSD 830.1 SHEET 5



TYPICAL LAYOUT OF CONCRETE PANELS



DOWEL AND TIE-BAR PLACEMENT DETAILS

ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE

APPROVALS		REVISIONS				MANITOBA STANDARD DRAWING		
ORIGINAL SIGNED BY: DUSTIN BOOY EXECUTIVE DIRECTOR OF HIGHWAY ENGINEERING SERVICES	No.	DESCRIPTION	BY	DATE	DATE		CONCRETE JOINT, DOWEL AND TIE-BAR PLACEMENT DETAILS (EIGHT DOWELS PER PANEL)	
					OCTOBER 2025			
					SCALE	SHEET		
					N.T.S.	1 OF 1	Manitoba Transportation and Infrastructure	
	ORIGINAL SIGNED BY: TARA LISKE EXECUTIVE DIRECTOR OF REGIONAL OPERATIONS					MSD - 830.2		

SEAL

COPY
ORIGINAL SEALED BY:

M. ALAUDDIN AHAMMED, P.Eng.

October 22, 2025