PA Schedule 18 – Technical Requirements: Appendices Execution Version

RFP No. 201-2014 B PA So The City of Winnipeg Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass

Appendix DD – Pembina Highway Underpass: Geometric Design Criteria

Pembina Highway Underpass: GEOMETRIC DESIGN CRITERIA

Road	From	То	Route		Posted	Lanes	anes Lane Width (1)			Min Vertical Curve		Normal	Longitudinal Gradient (3)		Stopping Super -		Shy line Offset (5)					
			Classification	Speed	Speed		curb	center	median	Radius (TAC)	Min K	Min K	Cross fall	Min	Max	Sight Dist.	elevation	left	right	Width		Clearance
			TAC	km/h	km/h		m	m	m	m	Sag (TAC) (2)	Crest (TAC)	%	%	%	m (4)	(m/m)	m	m	m		at Underpass
<u>Pembina Highway</u>	Point Road	Jubilee Ave.	UAD	70	60	3	3.50	3.50	3.50	200	10-12	16-23	2	0.5	4.0	95-110	0.04	N/A	N/A	Full width	both sides	N/A
	Labilia Acce	Ota (family Asses	1145	70	00	•	0.50	2.50	0.50	000	40.40	40.00		0.5	4.0	05.440	0.04	0.5		4.5	hade at lea	5.0
	Jubilee Ave.	Stafford Ave.	UAD	70	60	3	3.50	3.50	3.50	200	10-12	16-23	2	0.5	4.0	95-110	0.04	0.5	1	4.5	both sides	5.0

- Notes:
 1) Lane width's to comply with City of Winnipeg Design Manual (CWDM). Dimensions reflect clear width of lane.
 2) Based on comfort control
 3) Max grade to comply with CWDM table 4.2
 4) Stopping site distance from TAC table 1.2.5.3 Stopping Sight Distance for Automobiles and Trucks with Antilock Braking System.
 5) Shy line offset's represent minimum desirable distance at the pinch point between existing piers at Jubilee Overpass.