

Project: Fairwinds Lake District, Preliminary Design eDAS File #:

Your File #: KWL 2964.001: Parkway Collector 50 km/h

Design E	lement	Present Conditions	MoT Guidelines Criteria	Proposed Project Criteria	Achieved Project Criteria	Comments / Notes *
Road Class	sification		Rural Collector			See Note 1 below
Posted 9	Speed		50 km/h	50 km/h		
Design S	Speed		50 km/h	50 km/h		
Curb & Gutter or	Open Shoulder		Open or curb	Curb / gutter		
Basic # of	f Lanes		2	2		
Minimum Horiz.	Curve Radius		75 m	90 m		
Min K Factor on	Crest		7	7		
Vertical Curve	Sag		12	7		With street lighting
Maximum	Grade		8 %	9 %		See note 2 below
Maximum Sup	perelevation		%	4 %		
Minimum Stopping	g Sight Distance		65 m	73 m		
Finished To	op Width		NA	NA		
Paved	Width		8.2 m	7.0 m		See note 3 below
Gravel Shou	lder Width		n/a	n/a		
Cul-de-sac or Hammerh	ead (Fig. 1420.F - L)		n/a	n/a		
Clear Zone - C	Offset Width			1.45 m		To fire hydrants
Minimum Right-	of-Way Width		20 m	20-25 m		Must contain cuts and fills
Catchment Width	n in Rock Cuts		0.6 m	0.6 m		Subj to s distance
AADT/SADT (xxx	x Design Year)					
Truck Vo	olume		%	%		
Design Vehicle			WB-20			
Intersection Type (Local Intersection, Protected			Collector	Collector		
Driveway Ac (Residential or Comme BC Supp. Sect. 730 T	ercial; Fig. 1420.O or		NA	NA		

footnote number and documented on the following	g page(s).	
MoT CRITERIA: District Development Approvals:	(Print Name)	Date:
PROPOSED CRITERIA: Engineer of Record: (if proposed or achieved criteria is different than MoT criteria)	(Print Name)	Date:
ACCEPTED BY: Regional Mgr, Engineering: (for exceptions to standards) □Prop. □Achvd	(Signature)	Date:
ACCEPTED BY: Chief Engineer:(for major exceptions to standards)	(Signature)	Date:

* - Justification for deviation from guidelines and proposed mitigation must be referenced by

eDAS File #:

Your File #: KWL 2964.001 Parkway Collector 50 km/h

Comments / Notes:

Note 1. Classification:

There is only one road in this category, which is Schooner Cove Drive. A preliminary design consisting of plan/ profile and cross-sections has been provided.

The classification proposed above is Rural Collector 50km/h, as requested by MOTi at the meeting of March 26, 2013. An urban designation was originally proposed due to presence of housing along road, but with no access. The rural designation assumes slightly higher actual speeds and is therefore more stringent.

Note 2, Maximum Gradient:

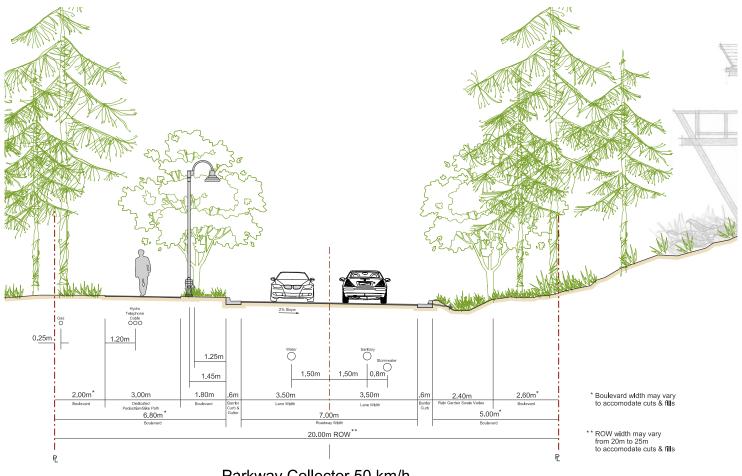
9 % maximum gradient is proposed for 2 locations, where topography does not permit a flatter gradient. The concept was agreed to in principle by MOT in a letter dated Dec 3, 2007.

Location 1: Sta 0+700: length = 165m, combined with 330m radius horizontal curve, The length of steeper gradient is short, and combines with a horizontal curve which greatly exceeds a minimum radius.

Location 2: Sta 1+600: length = 250m, combined with 90m radius reverse curves. The length is fairly short and the horizontal curves are better than minimum (75m).

Note 3, Paved Width;

The paved width does not include the curb/gutter. Lane width is 3.5 m with no parking allowed. Deep services are to be located beneath the paved width of the road.



Parkway Collector 50 km/h

Typical Condition



Project: Fairwinds Lake District, Preliminary Design eDAS File #:

Your File #: KWL 2964.001: Minor Collector 50 km/h

Design E	lement	Present Conditions	MoT Guidelines Criteria	Proposed Project Criteria	Achieved Project Criteria	Comments / Notes *
Road Clas	sification		Urban Collect.			See Note 1 below
Posted 9	Speed		50 km/h	50 km/h		
Design S	Speed		50 km/h	50 km/h		
Curb & Gutter or	Open Shoulder		Open or curb	Curb / gutter		
Basic # o	f Lanes		2	2		
Minimum Horiz.	Curve Radius		80 m	80 m		
Min K Factor on	Crest		7	7		
Vertical Curve	Sag		12	7		With street lighting
Maximum	Grade		10%	10 %		
Maximum Sup	perelevation		4%	4 %		
Minimum Stopping	g Sight Distance		65 m	73 m		
Finished To	op Width					
Paved	Width		8.2 m	7.0 m		See note 2 below
Gravel Shou	lder Width		n/a	n/a		
Cul-de-sac or Hammerh	nead (Fig. 1420.F – L)		n/a	n/a		
Clear Zone - 0	Offset Width					
Minimum Right-	of-Way Width		Varies	16.0 m		
Catchment Widtl	n in Rock Cuts		0.6 m	0.6 m		
AADT/SADT (xxx	x Design Year)					
Truck V	olume		%	%		
Design Vehicle						
Intersection Type (Loca Intersection, Protected	I, Collector, Arterial, T If T) (Fig. 710.D – H)					
Driveway Ac (Residential or Comme BC Supp. Sect. 730 T	ercial; Fig. 1420.O or					-

number and documented on the following page(s)			
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PROPOSED CRITERIA: Engineer of Record: (if proposed or achieved criteria is different than MoT criteria)	(Print Name)	Date:	
ACCEPTED BY: Regional Mgr, Engineering: (for exceptions to standards) □Prop. □Achvd	(Signature)	Date:	
ACCEPTED BY: Chief Engineer: (for major exceptions to standards)	(Signature)	Date:	

* - Justification for deviation from guidelines and proposed mitigation must be referenced by footnote

eDAS File #:

Your File #: KWL 2964.001 Minor Collector 50 km/h

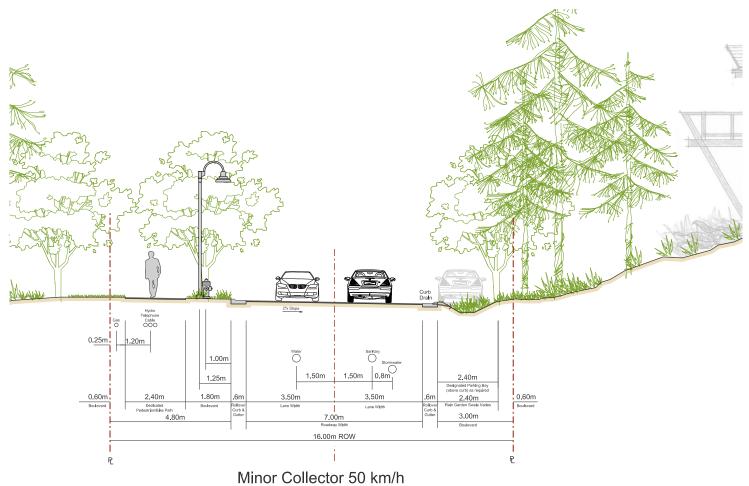
Comments / Notes:

Note 1, Classification:

There is only one road in this category, which is Bonnington Drive.

Note 2, Paved Width;

The Lane Width does not include the curb/gutter. The paved width is 3.5m. Parking is proposed outside the travelled pathway, above the curb, in clusters of 2 to 3 spots. Deep services are to be located beneath the paved width of the road.



Typical Condition



Project: Fairwinds Lake District, Preliminary Design eDAS File #:

Your File #: KWL 2964.001: Urban Local, 50 km/h

Design E	lement	Present Conditions	MoT Guidelines Criteria	Proposed Project Criteria	Achieved Project Criteria	Comments / Notes *
Road Clas	sification		Urban Local			See Note 1
Posted	Speed		50 km/h	50 km/h		
Design :	Speed		50 km/h	50 km/h		
Curb & Gutter or	Open Shoulder		Curb	Curb / gutter		
Basic # o	f Lanes		2	2		
Minimum Horiz.	Curve Radius		80 m	80 m		See Note 2
Min K Factor on	Crest		7	7		_
Vertical Curve	Sag		12	7		With street lighting
Maximum	Grade		10%	10 %		
Maximum Sup	perelevation		4%	4 %		
Minimum Stopping	g Sight Distance		65 m	65 m		
Finished T	op Width		10.0 m	10.2/ 11.1 m		To back of path
Paved	Width		8.2 m	7.0 m		See note 3
Gravel Shou	lder Width		n/a	n/a		
Cul-de-sac or Hammerh	nead (Fig. 1420.F – L)		n/a	n/a		
Clear Zone - 0	Offset Width					
Minimum Right-	of-Way Width		Varies	16.0 / 14.25 m		dbl / sgl frontage
Catchment Widt	h in Rock Cuts		0.6 m	0.6 m		
AADT/SADT (xxx	x Design Year)					
Truck V	olume		%	%		
Design \	/ehicle					
Intersection Type (Loca Intersection, Protected						
Driveway Ac (Residential or Comme BC Supp. Sect. 730 T	ercial; Fig. 1420.O or					-

* - Justification for deviation from guidelines and prop number and documented on the following page(s).	osed mitigation must be ref	erenced by footnote
MoT CRITERIA: District Development Approvals:		Date:
	(Print Name)	
PROPOSED CRITERIA: Engineer of Record:		Date:
(if proposed or achieved criteria is different than MoT criteria)	(Print Name)	
ACCEPTED BY: Regional Mgr, Engineering:		Date:
(for exceptions to standards) □Prop. □Achvd	(Signature)	
ACCEPTED BY: Chief Engineer:		Date:
(for major exceptions to standards)	(Signature)	

eDAS File #:

Your File #: KWL 2964.001 Urban Local, 50 km/h

Comments / Notes:

Note 1, Classification:

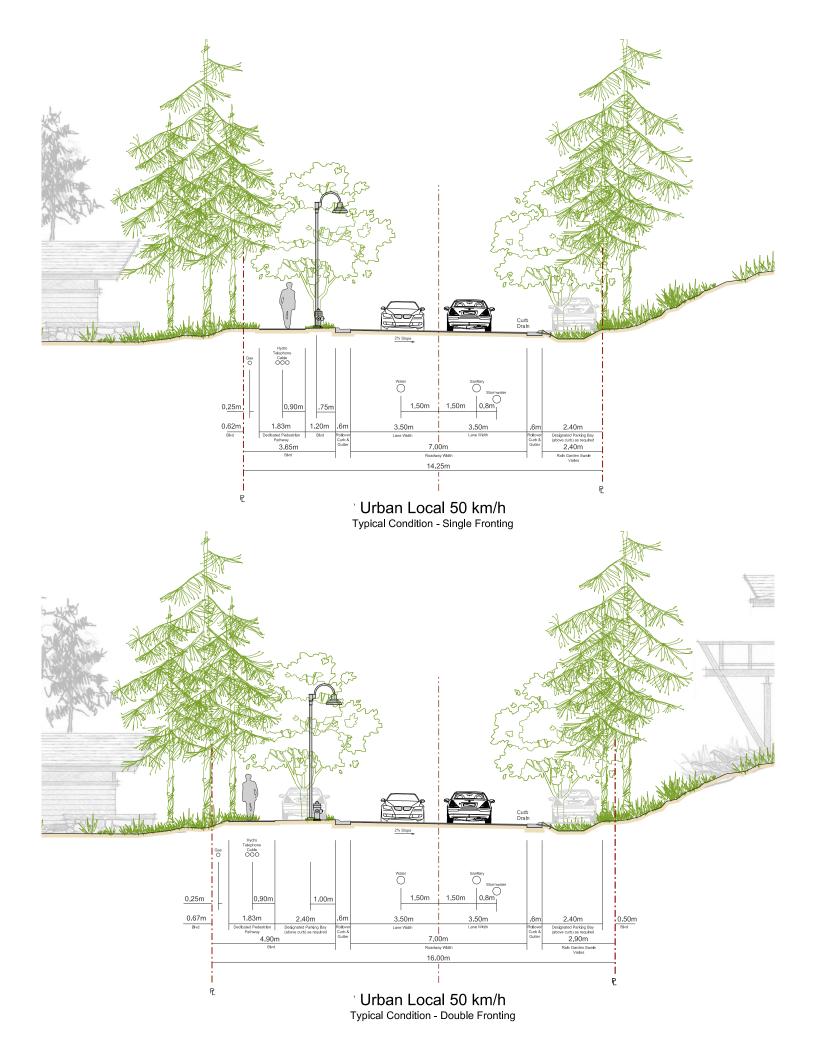
This classification is proposed for roads serving residential properties only which may include single family and multi-family residences. The 50 kph speed is proposed for the portion of local roads that will have more traffic, in many cases provide "through" service. Cul-de-sacs are generally not included in this category.

Note 2: Min Radius:

Most horizontal curves meet the standard of 80m radius. However, there are a few exceptional cases where 50m is proposed, and these are connected to side branches of Tee intersections where a stopping or starting condition applies.

Note 3: Paved Width;

The proposed width has set at 7.0 m excluding curb and gutters. This proposed parking is outside the travelled portion of the road, above the curb, in clusters of 2 to 3 spaces. Reduced widths to 6.0m may be considered at detail design stage at the discretion of the MoTI representative. Deep services are to be located beneath the paved width of the road.





Project: Fairwinds Lake District, Preliminary Design

eDÁS File #:

Your File #: KWL 2964.001: Urban Limited Local, 30 km/h (Cul-de-Sacs)

Design E	Element	Present Conditions	MoT Guidelines Criteria	Proposed Project Criteria	Achieved Project Criteria	Comments / Notes *
Road Clas	sification		Urban Local			See Note 1 below
Posted	Speed		30 km/h	30 km/h		
Design	Speed		30 km/h	30 km/h		
Curb & Gutter or	Open Shoulder		Curb/ gutter	Curb /gutter		
Basic # o	f Lanes		2	2		
Minimum Horiz.	Curve Radius		30 m	30 m		
Min K Factor on	Crest		2	2		
Vertical Curve	Sag		4	2		With street lighting
Maximum	n Grade		10%	12/ 10 %		Tan/ curve, note 2
Maximum Su	perelevation		RC	RC		
Minimum Stopping	g Sight Distance		30 m	30 m		
Finished T	op Width		10.0 m	10.2/ 11.1 m		To back of path
Paved	Width		8.2 m	6.0 m		See note 3 below
Gravel Shou	ılder Width		n/a	n/a		
Cul-de-sac or Hammerh	nead (Fig. 1420.F – L)		n/a	n/a		
Clear Zone - 0	Offset Width					
Minimum Right-	of-Way Width		varies	16.0 / 14.25 m		dbl/ sgl frontage
Catchment Widt	h in Rock Cuts		0.6 m	0.6 m		
AADT/SADT (xxx	x Design Year)					
Truck V	olume		%	%		
Design \	/ehicle					
Intersection Type (Loca Intersection, Protected						
Driveway Ac (Residential or Comme BC Supp. Sect. 730 T	ercial; Fig. 1420.O or					

number and documented on the following p	page(s).	
MoT CRITERIA: District Development Appr	ovals:(Print Name)	Date:
PROPOSED CRITERIA: Engineer of Reco (if proposed or achieved criteria is different than MoT criteria)	ord:(Print Name)	Date:
ACCEPTED BY: Regional Mgr, Engineerin (for exceptions to standards) □Prop. □Ach		Date:
ACCEPTED BY: Chief Enginee (for major exceptions to standards)	er:(Signature)	Date:

* - Justification for deviation from guidelines and proposed mitigation must be referenced by footnote

eDAS File #:

Your File #: KWL 2964.001 Urban Limited Local, 30 km/h (Cul-de-Sacs)

Comments / Notes:

Note 1, Classification:

This classification is proposed for cul-de sac roads serving residential properties only which may include single family and multi-family residences.

Note 2, Maximum Gradient:

A 12% maximum gradient is proposed for tangents, where necessary to adapt to difficult terrain. Lengths of steep gradient are typically short, in the range of 100 to 250m. This is supported by many examples in earlier phases at Fairwinds, where grades up to 13.1% were approved and constructed on public roads.

Note 3, Paved Width;

The proposed width to be determined at detailed design with turning circles to show access for emergency vehicles. The proposed parking is outside the travelled portion, above the curb, in groups of 2 or 3 spaces, at intervals. Proposed widths are 6.0m not including curb and gutter but subject to above and approval from the MoTi representative. Deep services are to be located beneath the paved width of the road.

