Agenda – Executive Policy Committee – September 20, 2017

Report – Standing Policy Committee on Infrastructure Renewal and Public Works – September 11, 2017

Item No. 6 Rescind of the Public Lane Lighting Standards in the City of Winnipeg

STANDING COMMITTEE RECOMMENDATION:

On September 11, 2017, the Standing Policy Committee on Infrastructure Renewal and Public Works concurred in the recommendation of the Winnipeg Public Service and submitted the following to Council:

1. That the Public Lane Lighting Standards in the City of Winnipeg approved by Council March 19, 1986 (attached), be rescinded.

2. That the street and lane lighting design and lighting levels for the City of Winnipeg be in accordance with the Guide for the Design of Roadway Lighting by the Transportation Association of Canada (TAC).

3. That the Proper Officers of the City be authorized to do all things necessary to implement the intent of the foregoing.

Agenda – Executive Policy Committee – September 20, 2017

Report – Standing Policy Committee on Infrastructure Renewal and Public Works – September 11, 2017

DECISION MAKING HISTORY:

STANDING COMMITTEE RECOMMENDATION:

On September 11, 2017, the Standing Policy Committee on Infrastructure Renewal and Public Works concurred in the recommendation of the Winnipeg Public Service and submitted the matter to Executive Policy Committee and Council.

ADMINISTRATIVE REPORT

Title: Rescind of the Public Lane Lighting Standards in the City of Winnipeg

Critical Path: Standing Policy Committee on Infrastructure Renewal and Public Works – Executive Policy Committee - Council

AUTHORIZATION

Author	Department Head	CFO	CAO
D. Hurl, P. Eng. Acting Manager of Transportation	J. Berezowsky Acting Director of Public Works	N/A	D. Wardrop A/CAO

EXECUTIVE SUMMARY

The City of Winnipeg (Public Works Transportation Division) Technical Guidelines & Practices for Street Lighting includes a Public Lane Lighting Standard which was approved on March 19, 1986. This Public Lane Lighting Standard is no longer applicable and should be removed. Street and lane lighting design and lighting levels are now based on the most recent version of the Guide for the Design of Roadway Lighting by the Transportation Association of Canada (TAC).

RECOMMENDATIONS

1. That the City rescinds the Public Lane Lighting Standards in the City of Winnipeg Approved By Council March 19, 1986 (attached).

2. That the street and lane lighting design and lighting levels for the City of Winnipeg be in accordance with the Guide for the Design of Roadway Lighting by the Transportation Association of Canada (TAC).

REASON FOR THE REPORT

Only Council can rescind its previously approved Public Lane Lighting Standards.

IMPLICATIONS OF THE RECOMMENDATIONS

The City of Winnipeg (Public Works Transportation Division) Technical Guidelines & Practices for Street Lighting will more accurately reflect the design practices being implemented.

HISTORY/DISCUSSION

Lighting design practices have evolved over the years. With recent technology changes and a better understanding of lighting design, organizations such as the Transportation Association of Canada (TAC) now provide recommendations and guidance for street and lane lighting design. The TAC recommendations and guidance are based on the Illumination Engineering Society of North America (IESNA) standards both of which are widely adopted.

The Public Lane Street Lighting Standard in the City of Winnipeg adopted in March 19, 1986 is obsolete. Rescinding this standard merely reflects the TAC recommendations and guidance for street lighting design we already follow.

FINANCIAL IMPACT

Financial Impact Statement **Date:** July 4, 2017

Project Name:
Rescind of the Public Lane Lighting Standards in the City of Winnipeg Approved

COMMENTS:

There is no financial impact as a result of this recommendation.

"Original Signed by J. Ruby, CPA, CA"
J Ruby CPA, CA
Manager of Finance & Administration

CONSULTATION

This Report has been prepared in consultation with: n/a

OURWINNIPEG POLICY ALIGNMENT

n/a

SUBMITTED BY

Department: Public Works
Division: Transportation
Prepared by: Bruce Chin, P. Eng., Lighting Systems Engineer
Date: August 18, 2017

Attachments: Public Lane Lighting Standards in the City of Winnipeg Approved By Council March 19, 1986

C O V E R S H E E T

WINNIPEG HYDRO FAX

To: Doug Hildebrandt
Fax #: 654-1870
Company: Manitoba Hydro
Date: December 9, 1998
Pages: 1
File: 15-21MH

RE: Lighting Local Improvements - Design Guidelines

MESSAGE:

As stated in an April 15, 1986 letter to Clint Castle, Winnipeg City Council approved the following policy on March 19, 1986:

> "That the City of Winnipeg adopt and hereafter specify for future installations in public lanes, lighting levels ranging from 3.0 lux to 5.5 lux, with a uniformity ration of 10 to 1 or less, as proposed by Winnipeg Hydro and Manitoba Hydro, to achieve greater uniformity in future installations than was achieved in past installations."

With this policy in mind, we make the following recommendations with regards to spacing of luminaires in a public lane (based on 70w HPS luminaires at a 25 ft. mounting height).

Wood Pole Lane Lighting (2 ft. arms)

ruling span	180 feet
maximum span	200 feet

Ornamental Lane Lighting (6 ft. arms)

ruling span	180 feet
maximum span	190 feet

If there are any questions, please contact me at 986-3145.

DV:dv
c:\dvh-mh\lanespan.wpd

From the desk of...

Dave Van Heyst
Street Lighting Technologist
WINNIPEG HYDRO
1315 NotreDame Ave.

STREETS AND TRANSPORTATION DEPARTMENT

100 MAIN STREET · WINNIPEG · MANITOBA · R3C 1A4

RECEIVED
APR 17 1986
GEN. MGR'S. OFFICE

1986 04 15.

Manitoba Hydro,
Box 815,
Winnipeg, Manitoba,
R3C 2P4.

Attention: Mr. C. H. Castle, Manager,
Business Department, Central Region

Dear Mr. Castle:

RE: PUBLIC LANE LIGHTING STANDARDS IN THE CITY OF WINNIPEG.

Enclosed please find a copy of the final Report in the above matter, which was considered and approved by Council (as amended) on March 19, 1986.

Would you, therefore, please proceed with the implementation of the adopted policy -

"That the City of Winnipeg adopt and hereafter specify for future installations in public lanes, lighting levels ranging from 3.0 lux to 5.5 lux, with a uniformity ratio of 10 to 1 or less, as proposed by Winnipeg Hydro and Manitoba Hydro, to achieve greater uniformity in future installations than was achieved in past installations."

Yours truly,

L. R. Campbell, P. Eng.,
Manager of Streets & Traffic.

GD:hd
Encs.
c.c. Mr. R. J. McRae, P. Eng.,
Commissioner of Works and Operations.
c.c. Mr. K. H. Hallson, P. Eng.,
General Manager,
Winnipeg Hydro.
c.c. Mr. E. Hildebrand,
Tax Branch,
Local Improvements.
c.c. Mr. B. Bigus,
Central Region,
Manitoba Hydro.

bcc: Mr. P. Privat

WINNIPEG

City of Winnipeg Updated: November 7, 2003

Street Lighting Photometric Standards

Street Classification	Daily Volume	ILLUMINANCE CRITERIA			
		Average Illuminance	Uniformity: Avg/Min Ratio	Uniformity: Max/Min Ratio	Glare
ARTERIAL	4,000 + veh/day	**17 lux:** (25 lux at intersections)	3 : 1 or less	6 : 1 or less	0.28
COLLECTOR	1,000 to 4,000 veh/day	**13 lux:** (19 lux at intersections)	3 : 1 or less	6 : 1 or less	0.20
LOCAL	< 1,000 veh/day	**10 lux:** (15 lux at intersections)	3 : 1 or less	6 : 1 or less	0.18
BACK LANE	N/A	3 to 5.5 lux	10 : 1 or less		

Policy on back lane lighting adopted March 19, 1986 by Winnipeg City Council