

- •Transit 10 Year Service Plan
- •Pan Am Games
- •Recreation and Corporate Facilities
- •Strategic Road Safety Program
- •Operating Impacts from Growth
- •Commodity Markets Volatility
- •Blue Box Markets and Impact on Revenues
- •Sustainable Program Funding
- •Effectively programming and delivering area rating based projects



2015 CHALLENGES - continued

•Developing new business model for golf operations to sustain the infrastructure

- •Emerald Ash Borer Program
- •Operating Fleet & Equipment Replacement Sustainability
- •Staff Succession through elevated retirements and attrition
- •Optimizing Program Performance and Accountability
- •Composting Regulations
- •Deteriorating Infrastructure
- •Cost of Living and external contract escalation increases



2014 HIGHLIGHTS

A Prosperous and Healthy Community

- Cycling initiatives including bike share with 105 stations, 35kms of cycling lane expansion and Cannon Street bi-directional cycle track
- Processed 46,000 tonnes of recyclable materials, 54,900 tonnes of organics and collected 179,000 tonnes of waste
- Planted 7,974 trees across the City
- Waterfront Developments including tenders for Pier 7 Shoreline & Transient docks and repairs to Pier 4 washout areas, concept plans for the future of Pier 8 Park and Pier 7 Shoreline and Breakwater
- Partnered with Region of Peel for the conversion of cooking oil to biodiesel
- 17,142 volunteers contributed 34,000 hours at a value of approx. \$1m in the "Team Up to Clean Up" programs
- Preparation and planning for 2015 Pan Am Games
- 48% reduction in Park illegal dumping due to additional waste collection services at the curbside and increased & visible illegal dumping enforcement by Municipal Law Enforcement



Hamilton 7

2015 Budget

2014 HIGHLIGHTS

Valued & Sustainable Services

- 50 construction projects worth \$115 million
- 2,500 (\$5m) road cuts; 200 lane kms of completed roads; replacement of 57.8 kms of existing sidewalks; 2.4 kms of new sidewalks constructed
- Ice storm response and clean-up; Forestry received 22,000 unique storm related calls (vs. previous average 1,200)
- Initiated Bridge Heritage Master Plan Study
- Won SWANA Silver Excellence Award for recycling and Bronze Excellence Award for public education in grey cart pilot project
- Managed Unplanned Infrastructure failures (e.g. Sydenham Escarpment, Kenilworth Escarpment and Marston Street Bridge Failures)
- Transit Real time data available platform departure displays, trip planner, bus check, open data
- Winter Challenges

	Hamilton 9
Public Works Department	2015 Budget
	2013 Dudget

2014 HIGHLIGHTS

Leadership & Governance

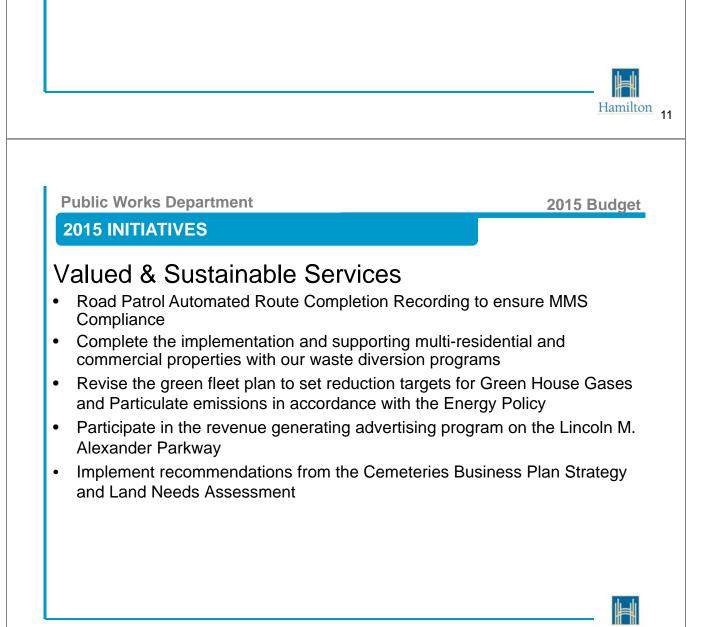
- Continued improvement of Corporate Culture quantified through use of the Denison Culture Assessments completed within several divisions of Public Works
- Continued Cutting Edge of Leadership training for all Public Works supervisory staff
- Performance, Accountability and Development tool started for management team
- Updated Service Profiles
- Supervisor Boot Camp



2015 INITIATIVES

A Prosperous and Healthy Community

- Clean and Safe Railway Neighbourhood Projects collaboration with MLE and CP Rail
- Glanbrook Landfill pump station infrastructure upgrades & training
- Complete implementation and commissioning of Traffic Management Centre
- Participating in the development of the Clappison Grindstone Heritage Lands Management Plan in the Cootes to Escarpment EcoPark System
- Emerald Ash Borer (EAB) Management Plan Continue Implementation of Council approved plan
- Waterfront Development construction of Pier 7 shoreline & transient docks



2015 INITIATIVES

Leadership & Governance

- Staff succession planning
- Follow-up to the Denison Culture Assessments
- Implement Performance Accountability and Development tool

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Public Works

2015 Budget

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SERVICE DELIVERY PROFILES

Public Works supports the following programs and related services:

Environmental Management

- Cemeteries
- Forestry
- Horticultural Programs
- Solid Waste Management
- Water Supply & Distribution (Rate Budget)
- Wastewater Collection & Treatment (Rate Budget)
- Storm Water Management

Leisure & Recreation

- Parks & Open Space Access
- Pan Am Games

Transportation

- Strategic Transportation Planning
- Roadway Access
- Traffic Flow & Roadway Safety
- Public Transportation

Corporate Services

- Energy Management
- Facilities Management
- Engineering Services
- Fleet Management
- Recreation Asset Management
- Public Works Departmental Support Services



2015 Budget

2015 Preliminary Tax Operating Budget



2015 Draft Budget

Public Works Department

2015 GROSS EXPEN	2015 GROSS EXPENDITURES – Tax Levy					
	2014 Restated	2015 Base Budget ¹	\$ Change	% Change		
Employee Related Cost	\$158,993,550	\$163,064,870	\$4,071,320	2.6%		
Material and Supply	23,174,780	25,740,790	2,566,010	11.1%		
Vehicle Expenses	33,952,080	33,486,530	(465,550)	(1.4%)		
Building and Ground	13,250,080	14,603,830	1,353,750	10.2%		
Consulting	258,640	295,730	37,090	14.3%		
Contractual	75,231,350	79,578,950	4,347,600	5.8%		
Agencies/Support Payments	183,630	183,650	20	0.0%		
Reserves/Recoveries	2,527,620	2,505,620	(22,000)	(0.9%)		
Cost Allocations	536,890	768,950	232,060	43.2%		
Financial	3,342,400	3,500,430	158,030	4.7%		
Capital Financing (E)	55,950	55,950	0	0.0%		
Capital Expenditures	0	0	0	0.0%		
TOTAL EXPENDITURES	\$311,506,970	\$323,785,290	\$12,278,320	3.9%		
inclusive of fuel savings of \$1,4	80,000					

-

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EXTRAORDINARY BUDGET CHANGES- Tax Expenditures

Description	Amount (\$000's)
Winter Season	1,897
Transit - DARTS Contract	760
Annualized Impact of 2014 approved Transit enhancement (PW14015)	747
Operations Contracts	
- Waste Collection	930
- Waste Disposal	360
- Storm water maintenance	1,070
Transit Fleet Reserve Phase in Strategy (Year 5 of 8)	513
Streetlighting Program	1,294
Municipal Law Enforcement Illegal Dumping Project	200
Transit – McMaster Re-alignment	484
Building Repairs	1,175
Recoveries for Building Repairs	(960)
	Ham

Public Works Department

2015 Draft Budget

2015 GROSS REVENUES – Tax Levy

	2014 Restated	2015 Base Budget ¹	\$ Change	% Change
Fees and General	(\$70,861,200)	(\$70,510,150)	\$351,050	(0.5%)
Grants and Subsidies	(14,190,500)	(13,581,190)	609,310	(4.3%)
Reserves	(1,911,670)	(2,535,940)	(624,270)	32.7%
Recoveries from Capital	(23,391,300)	(24,060,760)	(669,460)	2.9%
TOTAL REVENUES	(\$110,354,670)	(\$110,688,040)	(\$333,370)	0.3%

¹ inclusive of additional Transit revenues from growth of \$330,000



EXTRAORDINARY BUDGET CHANGES- Tax Revenues

Description	Amount (\$000's)
Decreased Court House Lease Revenues	1,535
Decreased Recycling Revenues	386
Decreased Transfer Station /Community Recycle Centre Revenues	174
Hamilton Renewable Power Inc. – final year of dividend reduction phase in	100
Tim Hortons Field	(839)
Increased Transit Revenues from ridership growth	(580)



Public Works Department

2015 Budget

2015 GROSS – NET DEPARTMENTAL BUDGET

	2014 Restated	2014 2015 Projected Preliminary		2015 Preliminary vs. 2014 Restated		
	Budget	Actual	Budget	\$	%	
EMPLOYEE REATED COSTS	158,993,550	159,623,460	163,064,870	4,071,310	2.6%	
MATERIAL AND SUPPLY	23,174,780	26,700,990	25,740,790	2,566,010	11.19	
VEHICLE EXPENSES	33,952,080	33,956,110	33,486,530	(465,550)	(1.4)%	
BUILDING AND GROUND	13,250,080	13,492,130	14,603,830	1,353,750	10.2%	
CONSULTING	258,640	307,400	295,730	37,090	14.3%	
CONTRACTUAL	75,231,350	80,972,890	79,578,950	4,347,600	5.8%	
AGENCIES and SUPPORT PAYMENTS	183,630	183,630	183,650	20	0.0%	
RESERVES / RECOVERIES	2,527,620	1,381,520	2,505,620	(22,000)	(0.9)%	
COST ALLOCATIONS	536,890	279,360	768,950	232,060	43.2%	
FINANCIAL	3,342,400	2,942,560	3,500,430	158,030	4.7%	
CAPITAL FINANCING	55,950	55,950	55,950	0	0.0%	
TOTAL EXPENDITURES	311,506,970	319,896,000	323,785,290	12,278,320	3.9%	
FEES AND GENERAL	(70,861,200)	(69,184,660)	(70,510,150)	351,050	0.5%	
GRANTS AND SUBSIDIES	(14,190,500)	(13,492,150)	(13,581,190)	609,310	4.3%	
RESERVES	(1,911,670)	(1,514,180)	(2,535,940)	(624,270)	(32.7)%	
RECOVERIES FROM CAPITAL	(23,391,300)	(22,780,200)	(24,060,760)	(669,460)	(2.9)%	
TOTAL REVENUES	(110,354,670)	(106,971,190)	(110,688,050)	(333,380)	0.0%	
	201.152.300	212.924.810	213.097.250	11.944.940	5.9%	

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2015 NET OPERATING BUDGET BY DIVISION

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2015 Budget

	2014 2014 2015 Restated Projected Preliminary		2015 Prelimina 2014 Restate	•	
	Budget	Actual	Budget	\$	%
PW-General Administration	184,380	0	184,380	0	0.0%
Corporate Assets & Strategic Planning	15,548,070	15,804,590	17,962,130	2,414,060	15.5%
Engineering Services	5,996,810	5,996,810	7,290,410	1,293,600	21.6%
Environmental Services	32,203,790	32,511,640	32,593,270	389,480	1.2%
Operations	92,863,410	104,286,860	98,730,130	5,866,720	6.3%
Transit	54,355,840	54,324,920	56,336,930	1,981,090	3.6%
NET LEVY	201,152,300	212,924,810	213,097,250	11,944,940	5.9%

Includes adjustments for fuel (\$1.48m) and transit growth revenues (\$330K)



Public Works Department

2015 Draft Budget

2015 GROSS - NET OPERATING BUDGET

	2014 Restated	2015 Base Budget ¹	\$ Change	% Chang e
Gross Expenditures	\$311,506,970	\$323,785,290	\$12,278,320	3.9%
Gross Revenues	(\$110,354,670)	(\$110,688,040)	(\$333,370)	(0.3%)
NET LEVY	\$201,152,300	\$213,097,250	\$11,944,950	5.9%



2015 Budget

ASSET BASE GROWTH

	2012	2013	2014	Change in Inventory	from
Asset Type	Inventory	Inventory	Inventory	2013-2014	
Roads (In km)	6,376	6,388	6,399	11	0.17%
Sidewalks (km)	2,362	2,378	2,382	4	0.179
Bridges (#)	386	391	392	1	0.269
Water Mains (km)	2,024	2,024	2,026	2	0.10
Sewer Mains (km)	2,813	2,867	2,910	43	1.53
Traffic Signals (#)	546	555	566	11	2.019
Streetlights (#)	45,653	45,750	45,750	0	0.00
Storm Ponds (#)	156	162	169	7	4.49
Facilities (Corporate) (sqf)	7,250,000	7,250,000	7,500,000	250,000	3.45
Parks (#)	397	402	410	8	2.02
Parks (hectares maintained)	1,671	1,675	1,723	48	2.87
Fleet Vehicles (#)	1,372	1,362	1,391	29	2.11
Transit Vehicles (HSR & ATS) (#)	289	296	294	-2	-0.69
Waste Management Facilities (#)	8	8	8	0	0.00
Catch Basins (#)	39,009	42,891	42,891	0	0.00
Trees (Urban ROW) (#)	144,791	150,305	155,479	5,174	3.57
Trees (Rural ROW) (#)	107,000	107,000	107,000	0	0.00
Cemeteries (sites)	67	67	67	0	0.00
Bike Lanes (km)	141	153	168	15	10.64
Trails (km)	54	56	64	8	14.81
Floral Traffic Islands (#)	272	279	282	3	1.10
Medians/Blvds/Laybys		87	89	2	2.30
Traffic Roundabouts / Circles (#)	61	61	61	0	0.00
Households	215,730	218,500	220,685	2,185	1.00

 2013 HOUSEHOLDS FROM 2013 FINANCIAL REPORT (ROUNDED), INCREASE FOR 2014 BASED ON GROWTH FORECAST

Public Works Department

2015 Budget

Hamilton 23

2015 TAX OPERATING BUDGET

Initial fuel guideline based on market in the fall of 2014

Diesel \$1.16 Unleaded \$1.10

Revised Fuel Price guideline based on updated market conditions

Diesel – 0.99 cents Unleaded – 0.99 cents

The 2014 budget was based on diesel and unleaded at \$1.10



2015 TAX OPERATING BUDGET

Transit 10 Year Plan





Public Works Transit Division

Ten Year Local Transit Strategy

February 6, 2015

Providing services that bring our City to life !

TEN YEAR LOCAL TRANSIT STRATEGY Presentation Outline

- Overview
- Strategic Context
- Municipal Investment & Benchmarking
- Customer Experience
- Current System Deficiencies
- Application of Service Standards
- Network & Ridership Growth
- Rapid Transit Corridors
- Fares
- Financial Summary
- Recommendations



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OVERVIEW Council Direction

- February 25, 2013 Council approved Rapid Ready Expanding Mobility Choices in Hamilton.
- June 26, 2013 Council provides staff with further direction:
 - 1. Come forward with recommendations for consideration during the 2014 operating and capital budget process with the first priorities for local transit service improvements to begin implementing Rapid Ready;
 - Report back in time for the 2015 budget process to the new City Council on a ten-year Hamilton local transit service level strategy, including specific route recommendations and a financial strategy, with reference to the role played by rapid transit, and with a goal of reaching 80-100 rides per capita by 2025.

- → Community
- → People
- → Processes
- → Finance



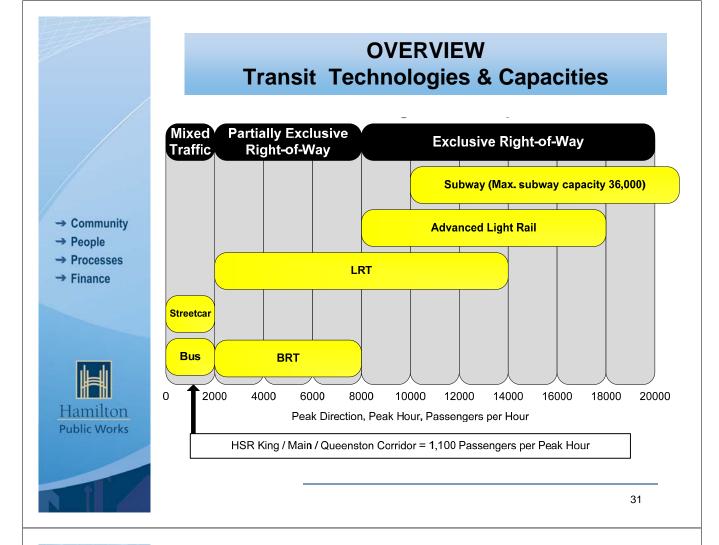
→ Community
→ People

→ Processes

Hamilton Public Works

→ Finance





OVERVIEW Service, Operating & Capital

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
		Defici	encies	Standards								10 Year
	2014						Grov	vth				Total
					Modal Split							
SERVICE												
Hours (000's)	814	16	34	34	39			2	99			422
Annual Operating (000's)	\$88,000	\$2,000	\$4,000	\$4,000	\$4,500			\$36	,500			\$51,000
Full Time Equivalents	644	16	34	26	30			2	30			336
Fleet	221	8	17	5	11			8	35			126
Fares	\$2.00	\$0.25	\$0.10	\$0.10	\$0.10			Т	BD			
OPERATING												
Service Expenditures (000's)		\$800	\$3,500	\$4,800	\$4,500							
Fare Revenues (000's)		-\$1,910	-\$3,770	-\$3,120	-\$3,230							
Levy (000's)		-\$1,110	-\$270	\$1,680	\$1,270							
Annual Change to Levy		-0.14%	-0.03%	0.21%	0.15%							
FUNDED CAPITAL (000's)	L											
Fleet (Local)		\$8,700		\$2,650	\$2,030			\$16	,710			\$30,090
UNFUNDED CAPITAL (000)'s)											
Fleet (BLAST)		\$6,875		\$5,300	\$5,420			\$39	,280			\$56,875
Maintenance Storage Facility		\$5,000	\$10,000	\$25,000	\$80,000			\$80	,000			\$200,000
Customer Experience		\$4,000	\$4,000	\$4,000	\$4,000			\$23	,000			\$39,000
Corridor Capacity		\$200	\$200	\$200	\$200			\$5	200			\$6,000
Total		\$16,075	\$14,200	\$34,500	\$89,620			\$14	7,480			\$301,875

• 50% increase in service

→ Community

- → People
- → Processes
- → Finance



TEN YEAR LOCAL TRANSIT STRATEGY Strategic Context







- Growth Forecasts
- Changing Role of Public Transportation
- Benefits of Public Transportation
- Corporate Strategy & Policy
- Transportation & Growth
- Transportation Master Plan
- Rapid Ready Expanding Mobility Choices



→ Community

Processes

Finance

→ People

STRATEGIC CONTEXT Growth Forecasts

Hamilton	2011 (Census)	2031*	2036*	2041*
Population (Persons)	519,950	660,000	730,000	780,000
Percentage Average Annual Change		1.3%	2.1%	1.4%
Employment (Jobs)	192,850**	300,000	330,000	350,000
Percentage Average Annual Change		2.8%	2.0%	1.2%

Source:

*Amendment No. 2 to the Growth Plan for the Greater Golden Horseshoe - City of Hamilton Comments ** 2011 National Household Survey

- → Community
- → People
- → Processes
- → Finance



STRATEGIC CONTEXT Changing Role of Public Transportation



- → People
- → Processes
- → Finance







Public Transportation as an investment in a Vibrant and Sustainable City

A Prosperous & Healthy Community

Transportation as an enabler for the community we strive to create, a healthy economy and a good quality of *life*.

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STRATEGIC CONTEXT Benefits of Public Transportation

- //
- → Community
- → People
- → Processes
- → Finance



- Reduced household transportation costs.
- Reduced congestion and delays (escarpment crossings at capacity by 2031).
- Addresses changing demographics (aging population).
- Positive health, environment and community impacts.
- Promotes economic development (attracting employers, creative industries).
- Promotes social equity.





STRATEGIC CONTEXT Corporate Strategy and Policy

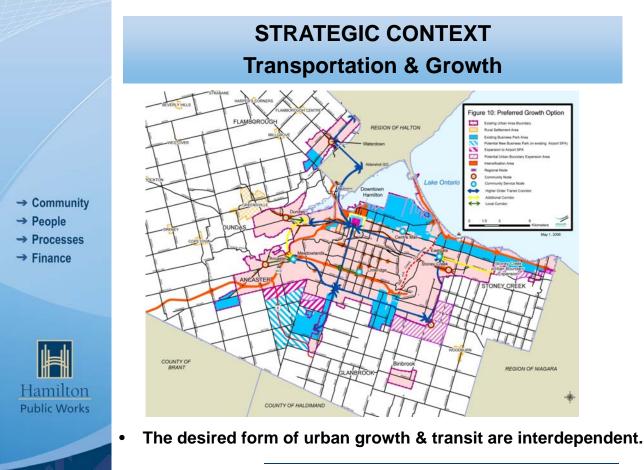
- 2012- 2015 Strategic Objective 1.4 "Improve the City's transportation system to support multi-modal mobility and encourage inter-regional connections".
- GRIDS (Growth Related Integrated Development Strategy) & Official Plan.
- 2007 Transportation Master Plan objectives and modal spilt targets (annual rides per capita 80-100).

Vision

To be the best place in Canada to raise a child, promote innovation, engage citizens and provide diverse economic opportunities.

Mission

We provide quality public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.



- → Community
 → People
- → Processes
- → Finance



STRATEGIC CONTEXT Transportation Master Plan

Emphasis on significantly improving transit services in combination with road capacity optimization before road

expansion	2001	Near-Term Target (2011)	Current Status (2011 TTS)	Long-Term Target (2021- 2031)
Estimated daily vehicle kilometres of Travel	4.8 Million KM	4.3 Million KM	n/a*	3.8 Million KM
Share of daily trips made by single- occupant drivers	68%	58%	67%	52%
Share of daily trips made by using municipal transit	5%	9%	7%	12%
Share of daily trips made by using walking or cycling	6%	10%	6%	15%
Annual transit rides per capita	48.5**	60	45.1**	80-100

*The 2011 TTS has released limited data to give a current status update. **Canadian Urban Transit Assoc. statistic based on service area population.

• City is lagging behind in all targets.

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STRATEGIC CONTEXT Rapid Ready Expanding Mobility Choices

- Multi-modal approach, including seamless integration with GO transit.
- 5 Year framework to continue advancing public transit towards rapid transit.
- Rapid Ready financial requirements:
 - > Overall Capital needs of \$156M.
 - > Short term Operating needs of \$45M.





- → People
- → Processes
- → Finance





- → People
- → Processes
- → Finance



TEN YEAR LOCAL TRANSIT STRATEGY Municipal Investment & Benchmarking







- Trips per Capita
- Contribution per Capita
- Transit Benchmarking
- Synopsis



→ Community
 → People
 → Processes

→ Finance

Hamilton Public Works



Municipality	Trips pe	% Change			
wantopanty	2006	2013	/• Change		
Brampton	24.48	35.43	44.73%		
Durham	13.83	19.46	40.71%		
London	54.12	63.07	16.54%		
York Region	18.00	21.51	19.50%		
Mississauga	41.22	47.59	15.45%		
Windsor	28.39	30.53	7.54%		
Hamilton	47.99	45.13	-5.96%		

- → Community
- → People
- → Processes
- → Finance



- City is trending in the wrong direction.
- 2013 Rapid Ready adoption.

MUNICIPAL INVESTMENT & BENCHMARKING Contribution per Capita (2013)

Municipality	Municipal Contri	bution per Capita	% Change	Average Increase per
	2006	2013		Year
Brampton	47.73	84.20	76.41%	10.92%
Durham	39.15	76.28	94.84%	13.55%
Mississauga	53.06	87.59	65.08%	9.30%
York Region	63.78	87.69	37.49%	5.36%
London	44.63	58.50	31.08%	4.44%
Windsor	48.02	60.71	26.43%	3.78%
Hamilton	58.50	65.89	12.63%	1.80%

- → Community
- → People
- → Processes
- → Finance



- City has lowest contribution increase per year.
- 2013 Rapid Ready adoption.

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MUNICIPAL INVESTMENT & BENCHMARKING Transit Benchmarking (2013)

Municipality	Average Fare	Trips per Capita	Trips per Revenue Hour	Revenue Hours per Capita	Cost per Revenue Hour	Revenue / Cost Ratio	Overall Rank
London	1	1	1	3	1	1	1
Hamilton	2	3	2	4	2	2	2
Mississauga	4	2	4	1	5	3	3
Brampton	6	4	5	2	4	4	4
Windsor	3	5	3	6	3	5	5
York Region	7	6	7	5	7	6	6
Durham	5	7	6	7	6	7	7



→ Community
 → People
 → Processes
 → Finance

Relatively efficient transit system.

MUNICIPAL INVESTMENT & BENCHMARKING Synopsis

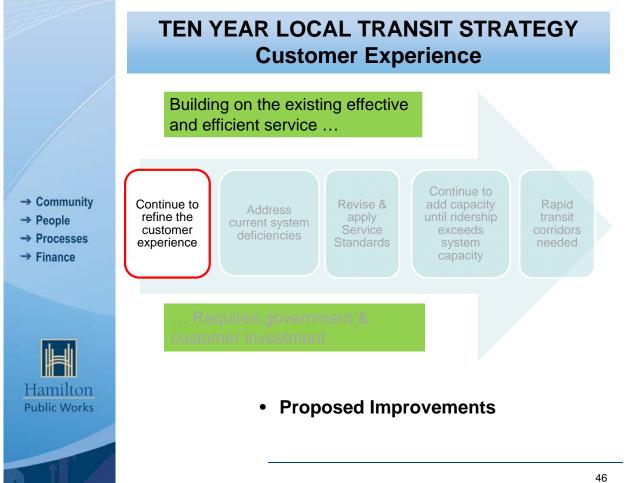
- HSR relatively efficiently run public transit system.
- Hamilton's investment in transit service has been low:
 - Low overall fare.
 - Lowest average municipal contribution increase per year.
- More investment in transit is required: •
 - > To support City goals, growth and development.
 - > To ensure sustainability of system and quality of service.





Rapid Ready Expanding **Mobility Choices** in Hamilton

45



- → Processes
- → Finance

→ People

→ Community

CUSTOMER EXPERIENCE Proposed Improvements

Branding and Marketing

- Branding strategy development & launch.
- Renewed marketing strategy.
- Application of brand to physical assets.

→ Community

- → People
- → Processes
- → Finance

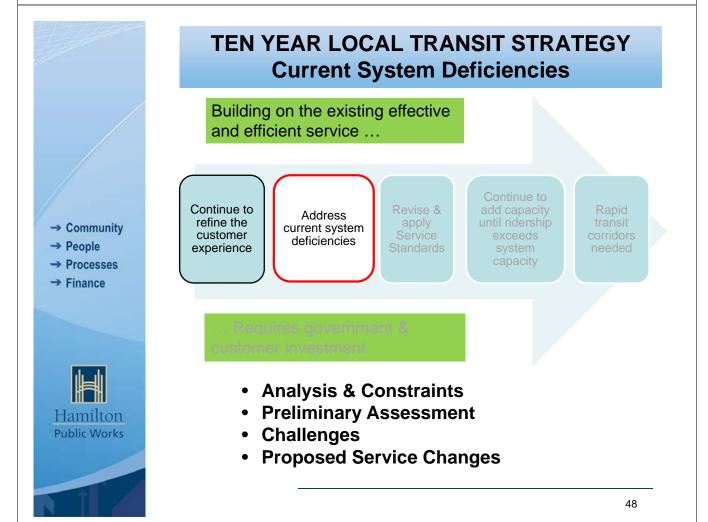


Total Cost: \$16.5M (\$4.5M branding, \$12M for application to assets)

Customer Information and Amenities

- Improved customer information (real time displays, social media, etc.).
- Improved customer amenities & services (shelters, PRESTO customer service, etc.).
- Terminal development & improvements (approx. 6 locations subject to feasibility analysis).

Total Cost: \$22.5M (\$4.5M for passenger amenities, \$18M for new/ expanded terminals)



CURRENT SYSTEM DEFICIENCIES Analysis & Constraints

System review to identify:

- Capacity deficiencies.
- Scheduling issues.
- Underperforming routes.
- · Opportunities to simultaneously address deficiencies while developing BLAST network.

Data limitations:

- Good schedule adherence data.
- Good bypass data.
- Limited passenger count information. ٠

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CURRENT SYSTEM DEFICIENCIES Preliminary Assessment

Group	BLAST Routes	Relate	d Local Roi	utes	Regional Connections	Trip Generators	
1	B-Line	01 King 05 Delaware 51 University			GO Hunter, GO Centennial, A-Line, L-Line, T-Line, S-Line	King/Main/Queenston Corridor, Eastgate Square, Stadium, University Plaza McMaster Health Sciences, Downtown, McMaster University	
2		02 Barton			GO Hunter, GO James N, GO Centennial, A-Line, B-Line, L-Line, T-Line	The Centre on Barton, Downtown, Stadiun General Hospital	
3	A-Line	21 Upper Kenilworth 27 Upper James 33 Sanatorium 35 College 51 University		27 Upper James 33 Sanatorium 35 College GO Hunter, GO James N, B-Line, L-Line, T-Line, S-Line			James/Upper James Corridor, Waterfront, Downtown, St. Joseph's Hospital, Mohawk College, Airport, 4 Pac Arena, St. Joseph's Healthcare West 5th Campus, Heritage Greene Shopping Compl
4		25 Upper Wentworth 26 Upper Wellington			GO Hunter, B-Line, L-Line, T-Line, S- Line	Downtown, St. Joseph's Hospital, Lime Rid Mall	
5	T-Line	41 Mohawk		41 Mohawk A-Line, B-Line		Mohawk Corridor, Industrial Area, The Centre on Barton, Lim Ridge Mall, Meadowlands	
6			3 Cannon Bayfront		GO Hunter, GO James N, A-Line, L-Line, T-Line, S-Line	Industrial Area, Stadium, Downtown	
7			oper Ottaw Jpper Gage		GO Hunter, B-Line, L-Line, T-Line, S- Line	Downtown, St. Joseph's Hospital, Juravins Cancer Centre, Red Hill Business Park	
Group	Servic e	FTE Ops	FTE Mtce	Flee t	Operating Cost	Capital Cost	
BLAST	20,000	17	3	11	\$2,400,000	\$6,875,000	
Local	30,000	26	4	14	\$3,600,000	\$8,750,000	
TOTAL	50,000	43	7	25	\$6,000,000	\$15,625,000	



→ Community → People

> Processes Finance

Hamilton **Public Works**

- → Processes





Increased Frequency / Additional School Only Trips / Additional Running Time / Additional Layover / Route Restructuring

CURRENT SYSTEM DEFICIENCIES Challenges

Buses

• Order backlog usually in the 1 to 2 year range; therefore, fleet availability for any peak improvements will be challenging.

Maintenance & Storage Facility

- Mountain Transit Centre currently operating at capacity.
- Adding capacity will take 3 to 5 years.
- Manageable in the short term long term solution required.
- Detailed costs subject to further investigations.

Operators

 Hiring and training of Operators is a lengthy process taking up to 6 months; HSR currently has an Operator deficiency.



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CURRENT SYSTEM DEFICIENCIES Proposed Service Changes

Phase-in of system deficiencies (\$6M) in 2015 and 2016:

- September 2015 \$0.8M (annualized impact of \$2M).
- March 2016 \$1.5M (annualized impact of \$2M).
- September 2016 \$0.8M (annualized impact of \$2M).

Requires commitment in 2015 Budget for:

- 50 FTE.
- Procurement of 25 new buses for 2016 delivery.
- Delay retirement of 10 buses as interim measure.



→ Community

→ Processes

→ Finance

→ People

Hamilton Public Works

→ Community

- → People
- → Processes
- → Finance





APPLICATION OF SERVICE STANDARDS Current Transit Service Guidelines (1996)

Service parameter	Monday to Saturday	Sunday & Holiday			
Hours of operation	6:00am to 12:00am	6:00am to 6:00pm			
Maximum headway	30 minutes	60 minutes			
Walking distance	400 metres for 90% of the population, where permitted by the local street network.				
Revenue/cost ratio (R/C ratio)	 Greater than 50% for entire system Minimum 30% for individual routes, otherwise basic Monday to Friday rush hour only service to be provided every 30 minutes 				

Current standards are pre-amalgamation & incomplete.

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- Updated standards will provide an objective basis to determine service levels to address gaps & grow service.
- A review of peers and best practices was undertaken.

APPLICATION OF SERVICE STANDARDS Summary of Proposed Service Standards

Coverage and Expansion of Service:

- Maintains 90% within 400m standard.
- Clarifies weekday peak service as a minimum.
- Includes workplaces as well as residents.

Proposed HSR Service Standard									
Coverage	Coverage Weekday Saturday Sunday								
System Wide	90% of residents / v	90% of residents / workplaces within Urban Transit Area to be							
Minimum	within 400 metres of Weekday Peak service.								
-									

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APPLICATION OF SERVICE STANDARDS Summary of Proposed Service Standards

Service Span (Hours of Operation)

• States span as a maximum & lets ridership levels justify span expansion.

Proposed HSR Service Standard							
Span (Start of trip)	Weekday	Saturday	Sunday				
Route Maximum	5:00 AM – 2:00 AM	5:00 AM – 2:00 AM	6:00 AM – 12:00 AM				

Frequency

• Includes a minimum frequency for each service type.

Proposed HSR Service Standard							
Frequency (Time between buses)	Weekday Peak / Non-Peak/ Evening	Saturday AM / Day / Evening	Sunday AM / Day / Evening				
Route Minimum	30 / 30 / 60	30 / 30 / 60	30 / 30 / 60				

→ Community

→ Community

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 → Processes
 → Finance

→ People

→ Processes

→ Finance



APPLICATION OF SERVICE STANDARDS Summary of Proposed Service Standards

Productivity

- Includes a minimum threshold based on boardings per service hour.
- Routes not meeting the minimum should be reviewed or monitored for service reductions.

Proposed HSR Service Standard							
Productivity (Boardings per Service Hour)	Weekday Peak / Non-Peak/ Evening	Saturday AM / Day / Evening	Sunday AM / Day / Evening				
Route Minimum	25 / 15 / 15	15 / 15 / 15	15 / 15 / 15				

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APPLICATION OF SERVICE STANDARDS Summary of Proposed Service Standards

Loading

- Sets a maximum standard based on seated capacity.
- Routes that exceed the maximum should be reviewed for added capacity.
- → Community

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 → People
 → Processes
 → Finance

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- → People
- → Processes
- → Finance

Proposed HSR Service Standard							
Loading (Expressed as Percentage of Seated Capacity)	Weekday Peak / Non-Peak/ Evening	Saturday AM / Day / Evening	Sunday AM / Day / Evening				
Route Maximum	125 / 100 / 100	100 / 100 / 100	100 / 100 / 100				



APPLICATION OF SERVICE STANDARDS Proposed Transit Service Standards

Proposed HSR Service Standards									
Coverage	Weekday	Saturday	Sunday						
System Wide	90% of residents /	workplaces within Urba	n Transit Area to be						
Minimum	within 400 metres of Weekday Peak service.								
-		1	1						
Span (Start of trip)	Weekday	Saturday	Sunday						
Route Maximum	5:00 AM – 2:00 AM	5:00 AM – 2:00 AM	6:00 AM – 12:00 AM						
Frequency (Time between buses)	Weekday Peak / Non-Peak/ Evening	Saturday AM / Day / Evening	Sunday AM / Day / Evening						
Route Minimum	30 / 30 / 60	30 / 30 / 60	30 / 30 / 60						
Productivity (Boardings per Service Hour)	Weekday Peak / Non-Peak/ Evening	Saturday AM / Day / Evening	Sunday AM / Day / Evening						
Route Minimum	25 / 15 / 15	15 / 15 / 15	15 / 15 / 15						
Loading (Expressed as Percentage of Seated Capacity)	Weekday Peak / Non-Peak/ Evening	Saturday AM / Day / Evening	Sunday AM / Day / Evening						
Route Maximum	125 / 100 / 100	100 / 100 / 100	100 / 100 / 100						

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APPLICATION OF SERVICE STANDARDS Gap Analysis Summary

Coverage : No deficiencies.

Span: No deficiencies.

Frequency: Several routes do not meet minimum standards.

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 → Processes
 → Finance

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- → People
 → Processes
- → Processes

Productivity: Potentially underperforming routes to be monitored.

Loading: Resolved in conjunction with Current System Deficiencies.



• Modest investment required to address gaps in frequency.

APPLICATION OF SERVICE STANDARDS Frequency Gaps

	Group	Loc	al Route(s)		Frequency		Regi	onal Connectior		Generators	
	1	04 Ba 06 Ab 07 Lo 08 Yo	yfront Jerdeen cke rk	front erdeen Improve Saturday and ke Sunday Headways to 30		GO James St. N, GO Hunter, B-Line, A-Line, L-Line		Downtown, er, waterfront,	industrial area, McMaster Innovation Park,		
 → Community → People → Processes → Finance 	2	22 Up 23 Up 24 Up Sherr 27 Up 33 Sa 34 Up Parad	oper Ottawa oper Gage oper nan oper James natorium oper	Imp Sun	,			GO Hunter, B-Line, A-Line, S-Line, T-Line		Downtown, industrial area, The Centre on Barton, Limeridge Mall, St. Joseph's Hospital, Juavinski Cancer Centre, Red Hill Business Park, Meadowlands	
Hamilton Public Works	3 16 Ancaster 18 Waterdown 55 Stoney Creek 56 Centennial Waterdown t		rove all deficient dways to minimu utes during all pe change one-way terdown to bidire	riods Ioop in	pds Station, B-Line, L-L		Business Pa Business Pa	on Park,			
Public Works			urs	FTE Ops	FTE I	Vitce	Fleet	Operating Cost	Capital Cost		
	Local 16,000				9	3	3	1	\$1,100,000	\$660,000	
				_						61	

APPLICATION OF SERVICE STANDARDS Proposed Service Changes

2017 Proposed Service Changes:

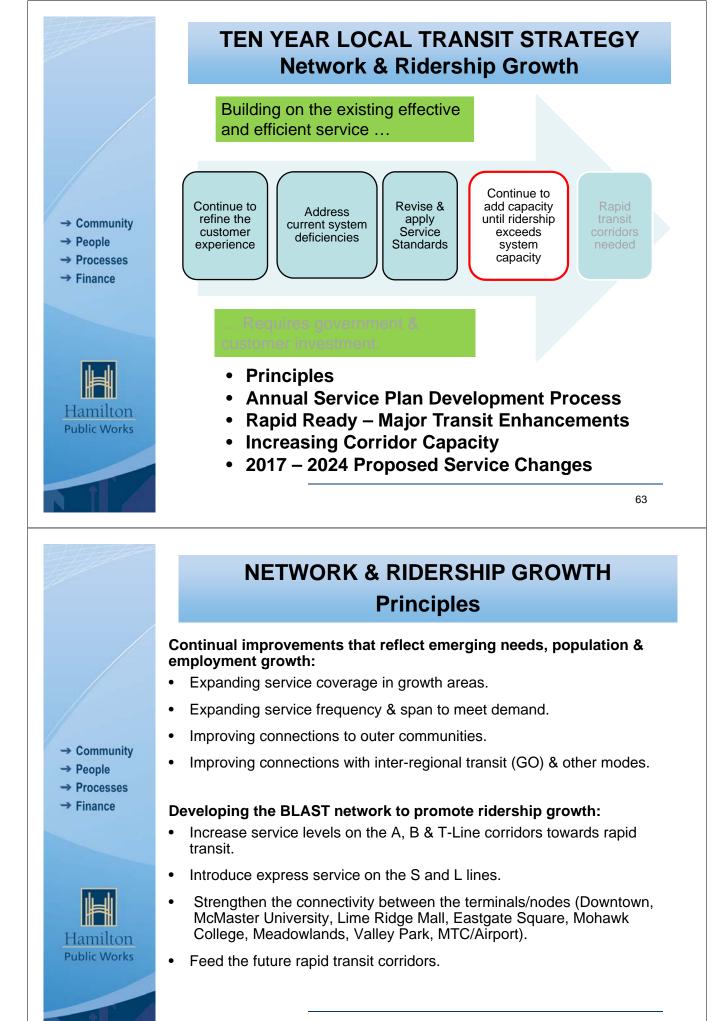
- Approximately 12 FTE & 1 bus.
- Annualized impact of approximately \$1.1M.
- Service improvements may include a combination of methods and subject to detailed review.

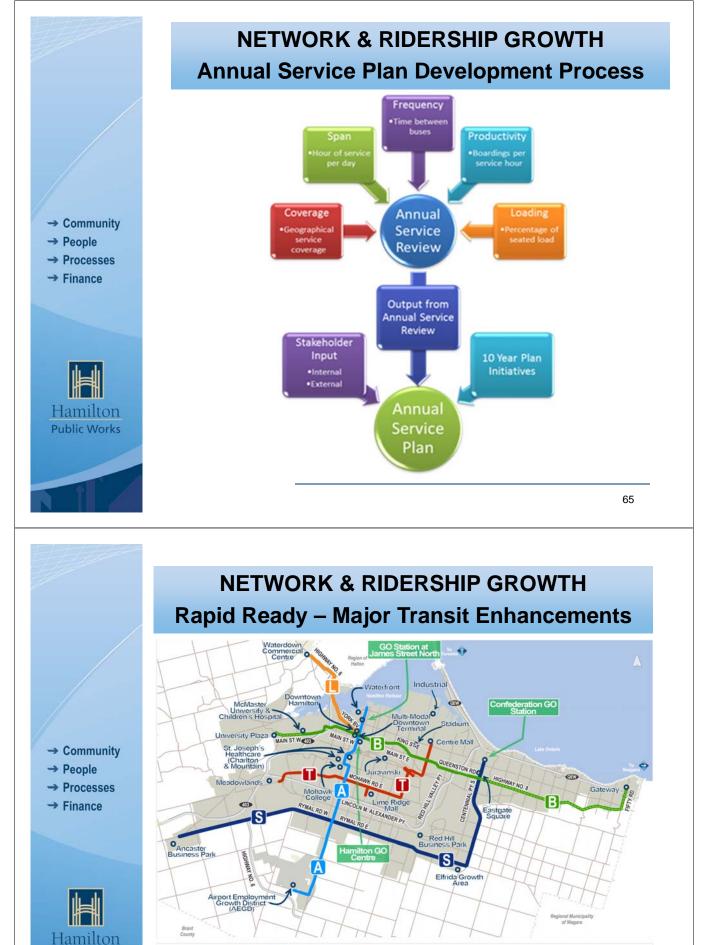
Substantial system alignment with new service standards by 2017.



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Future Expansion

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Public Works

Hamilton Long Term Rapid Transit System "B.L.A.S.T" (Conceptual Only)

NETWORK & RIDERSHIP GROWTH Increasing Corridor Capacity



- → People
- → Processes
- → Finance



Total Cost: \$6M.

- Signal priority.
- Queue jump lanes.
- Dedicated lanes.
- Large capacity buses.
- Proof of payment.
- Fare paid zones.



Next Step: Higher Order Transit.

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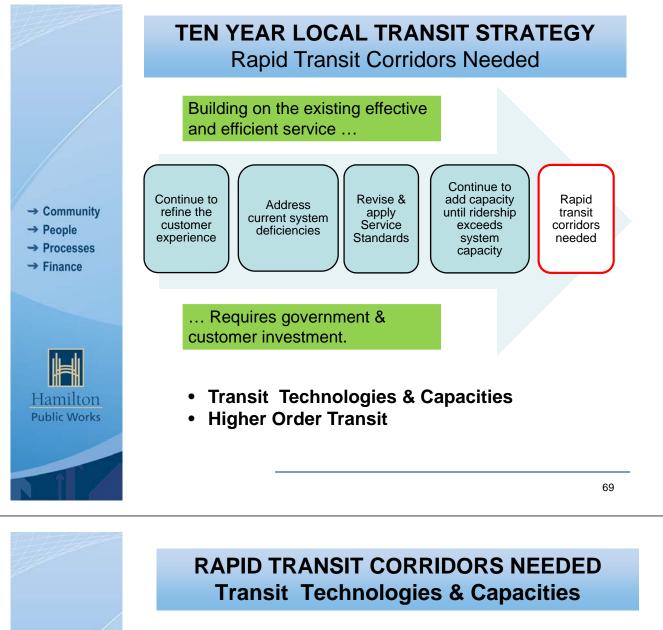
NETWORK & RIDERSHIP GROWTH 2017-2024 Proposed Service Changes

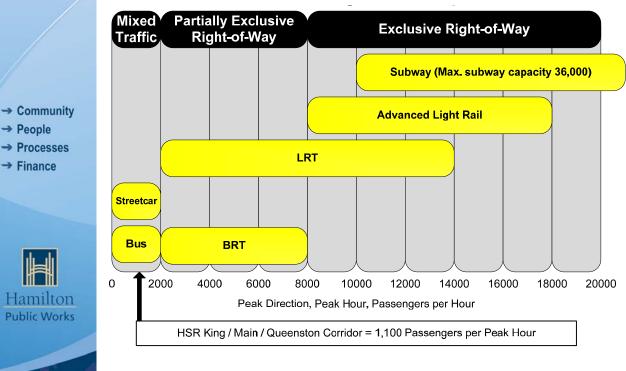
		Vehicles					
	Local	BLAST	Total	Local	BLAST	Total	Approx. Annual Operating Cost
Accommodate Annual Growth @ 2%	30	10	40	\$ 21,390,000	\$ 7,190,000	\$28,580,000	\$ 2,100,000
Ridership Growth (modal shift)		60	60		\$42,810,000	\$42,810,000	\$ 3,700,000
Totals	30	70	100		\$50,000,000	\$71,390,000	\$ 5,800,000

- → Community
- → People
- → Processes
- → Finance



- Approximate 10 minute frequency or better on major BLAST corridors – differentiates express bus as a higher level of service.
- Rides per capita of approx. 50 estimated by 2024.
- In order to approach 80-100 rides per capita higher order transit is needed.



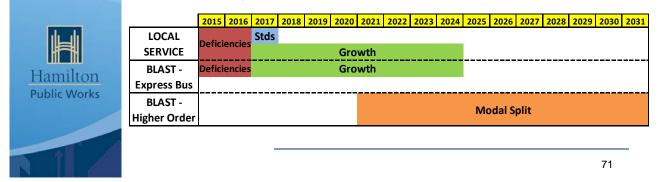


RAPID TRANSIT CORRIDORS NEEDED Higher Order Transit

Begin to Shift Modal Split with Enhanced Express Bus Followed by **Higher Order Transit.**

		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	LOCAL	Defini	Deficiencies	Stds														
	SERVICE	Defici					Gro	wth										
→ Community	BLAST -	Defici	encies				Gro	wth										
→ People	Express Bus						Mo	dal S	plit									
→ Processes	BLAST -														Moda	l Solii		
-> Finance	Higher Order														widua	spin		

Begin to Shift Modal Split with Higher Order Transit. •



TEN YEAR LOCAL TRANSIT STRATEGY Fare Policy



- → Community
- → People

→ People → Processes → Finance

- → Processes
- → Finance



- Principles
- Elasticity
- 4 Year Revenue & Ridership Impact of Fares & Service Increases
- Historical Fare Increases
- Transit Fare Comparison
- Fare Structure Comparison
- Proposed Multi Year Fare Increases
- Annual Impact of Fares & Service Increases

FARE POLICY Principles

Fair Share

- Customers and taxpayers (residential and non-residential) benefit from transit.
- Thus customers through fares and taxpayers through levy contributions must jointly share cost of providing transit.

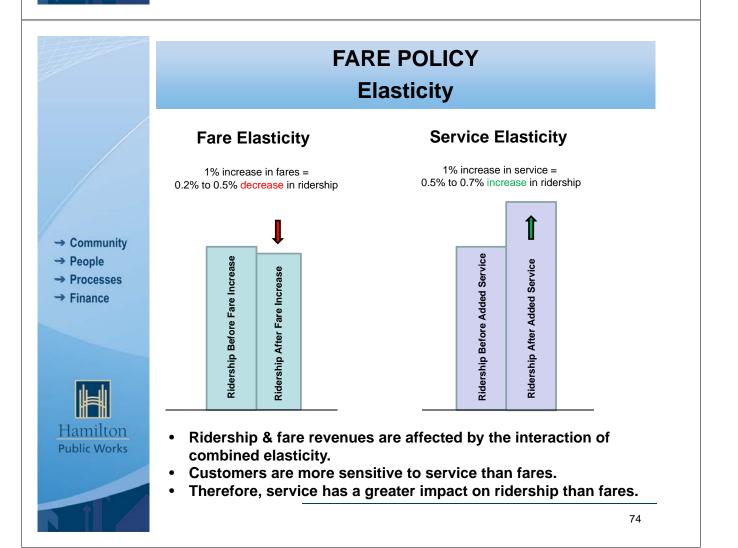
Fare Structure

• Various fare media tied to price of Single Adult Ride ticket.

Annual Fare Increase

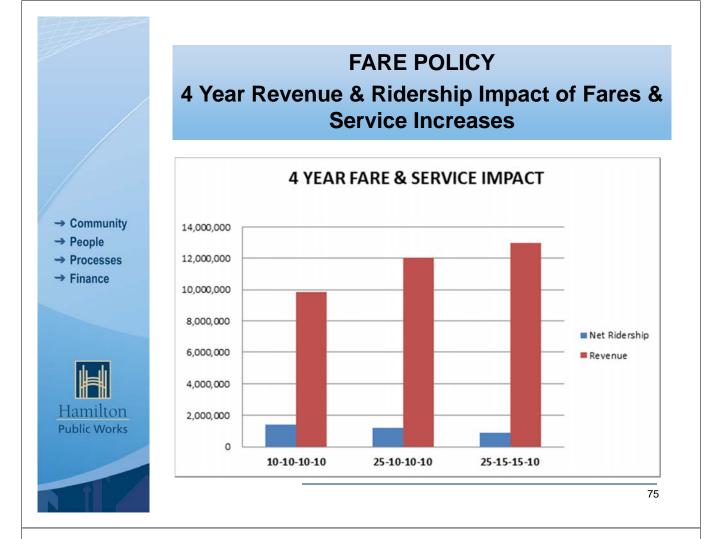
- Initially to help pay for service improvements and bring about alignment with comparator transits.
- Subsequently to establish regular modest fare increases to share in the cost of transit growth.

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- → Community
- → People
- → Processes
- → Finance





FARE POLICY Historical Fare Increases

	C	Cash	Ticket			Monthly Pass					
	Α	dult	Α	dult	St	udent	Adult	St	udent	Se	nior*
Jan-04	\$	2.10	\$	1.70	\$	1.35	\$ 65.00	\$	50.00		na
Jun-07	\$	2.25	\$	1.75	\$	1.45	\$ 71.00	\$	56.00		na
Jan-08	\$	2.40	\$	1.85	\$	1.55	\$ 79.00	\$	63.00		na
Jan-10	\$	2.55	\$	2.00	\$	1.65	\$ 87.00	\$	71.00		na
Jan-14	\$	2.55	\$	2.00	\$	1.65	\$ 87.00	\$	71.00	\$	20.50

- → Community
- → People
- → Processes
- → Finance



• No fare increase since 2010.

FARE POLICY Transit Fare Comparison (2014)

-	C	0	п	11	n	u	n	III

- → People
- → Processes
- → Finance



Municipality	Cash			Tic	ket		N	Ionthly Pa	SS
wunicipality	A	dult	Α	dult	St	udent	Adult	Student	Senior
London	\$	2.75	\$	1.90	\$	1.54	\$ 81.00	\$ 81.00	\$ 57.50
Hamilton	\$	2.55	\$	2.00	\$	1.65	\$ 87.00	\$ 71.00	\$ 20.50
Windsor	\$	2.75	\$	2.30	\$	1.80	\$ 87.00	\$ 60.00	\$ 44.00
Brampton	\$	3.75	\$	2.80	\$	2.50	\$ 118.00	\$ 105.00	\$ 50.00
Mississauga	\$	3.25	\$	2.80	\$	2.25	\$ 120.00	\$ 101.00	\$ 53.00
Durham	\$	3.00	\$	2.85	\$	2.64	\$ 106.00	\$ 86.50	\$ 42.75
York	\$	4.00	\$	3.30	\$	2.50	\$ 132.00	\$ 99.00	\$ 55.00
Average	\$	3.15	\$	2.56	\$	2.13	\$ 104.43	\$ 86.21	\$ 46.11

• Significantly lower fares than peers.

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FARE POLICY Fare Structure Comparison

Municipality	Cash Premium	Ticket Concession		Monthly Pass Multipler			
	Adult	Adult	Student	Adult	Student	Senior	
London	45%	Base	81%	43	53	38	
Hamilton	28%	Base	83%	44	44	13	
Windsor	20%	Base	78%	38	34	25	
Brampton	34%	Base	89%	43	42	20	
Mississauga	16%	Base	80%	43	45	24	
Durham	5%	Base	93%	38	33	17	
York	21%	Base	76%	40	40	22	
Average	23%	Base	83%	41	41	22	

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- → Processes
- → Finance



- Similar structure to peers with the exception of Senior passes.
- Should address senior monthly pass multiplier.

FARE POLICY Proposed Multi-year Fare Increases

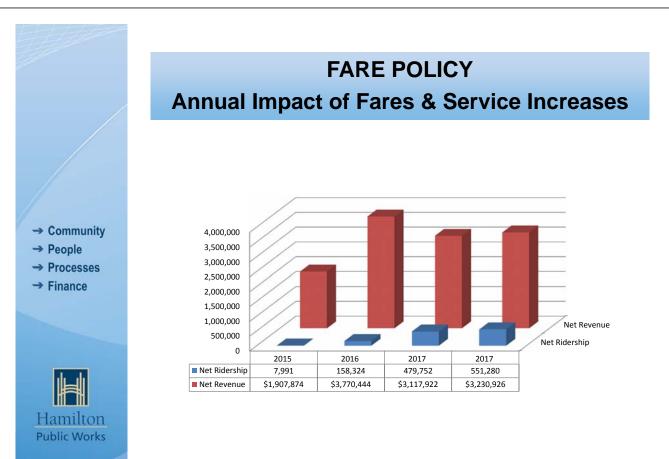
Year	Cash	Tic	Ticket		Monthly Pass		
fear		Adult	Student	Adult *	Student	Senior	
Utilization	11%	31%	8%	40%	5%	6%	
Current	\$2.55	\$2.00	\$1.65	\$87.00	\$71.00	\$20.50	
Sep-15	\$3.00	\$2.25	\$1.70	\$99.00	\$74.80	\$25.50	
Sep-16	\$3.00	\$2.35	\$1.75	\$103.40	\$77.00	\$29.75	
Sep-17	\$3.25	\$2.45	\$1.85	\$107.80	\$81.40	\$35.15	
Sep-18	\$3.25	\$2.55	\$1.90	\$112.20	\$83.60	\$39.90	

- → Community
- → People
- → Processes
- → Finance



- 25 cents September 2015 followed by 10 cent increases for the next three years.
- Senior pass multiplier adjusted.
- Thereafter, adjusted by CPI as a minimum.
- Measure and monitor shifts in customer behaviour.

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TEN YEAR LOCAL TRANSIT STRATEGY Multi-year Financial Summary







• Service, Operating & Capital

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MULTI-YEAR FINANCIAL SUMMARY Service, Operating & Capital

2018 2019 2020 2021 2022 2023 2024

2017

2015 2016

10 Year Standards Deficiencie 2014 Total Growth Modal Split SERVICE Hours (000's) 814 16 34 34 39 299 422 Annual Operating (000's) \$88,000 \$2,000 \$4,000 \$4,000 \$4,500 \$36,500 \$51,000 Full Time Equivalents 644 34 26 30 230 336 16 17 5 85 Fleet 221 8 11 126 Fares \$2.00 \$0.25 \$0.10 \$0.10 \$0.10 TBD OPERATING Service Expenditures (000's) \$800 \$3,500 \$4,800 \$4,500 Fare Revenues (000's) -\$1,910 -\$3,770 \$3,120 -\$3,230 -\$1,110 -\$270 \$1,680 \$1,270 Levy (000's) Annual Change to Levy -0.14% -0.03% 0.21% 0.15% FUNDED CAPITAL (000's) \$2,650 \$2,030 \$30,090 \$8,700 \$16,710 Fleet (Local) UNFUNDED CAPITAL (000's) Fleet (BLAST) \$5,300 \$5,420 \$39,280 \$56,875 \$6,875 \$5,000 \$80,000 Maintenance Storage Facility \$10,000 \$25,000 \$80,000 \$200,000 Customer Experience \$4,000 \$4,000 \$4,000 \$4,000 \$23,000 \$39,000 Corridor Capacity \$200 \$200 \$200 \$200 \$5,200 \$6,000 Total \$16,075 \$14,200 \$34,500 \$89,620 \$147,480 \$301,875

• 50% increase in service

→ Community

→ Community
 → People
 → Processes

Finance

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- → People
- → Processes
- → Finance





TEN YEAR LOCAL TRANSIT STRATEGY Recommendations







- → Community
- → People
- → Processes
- → Finance





RECOMMENDATIONS 1. Approve the 2015 to 2024 Ten Year Local Transit Strategy, including the following approvals for 2015 and 2016 to address system deficiencies: a. \$6M dollars annualized (\$5.7M to be funded from fare increases and \$0.3M from levy) to be phased in over 2 years: September 2015 \$0.8M (\$2M annualized); i. → Community ii. March 2016 \$1.5M (\$2M annualized); and, → People iii. September 2016 \$0.8M (\$2M annualized). → Processes b. An additional 50 FTEs. → Finance c. The addition of 25 buses to the fleet in 2015 at a capital cost of \$15.6M, to be funded as follows: i. \$3M development charges; \$5.7M transit vehicle replacement reserve; and, ii. iii. \$6.9M unfunded capital to be requested from Metrolinx as part of recommendation 4. Hamilton Public Works d. Delay the retirement of 10 buses at a capital cost of \$0.5M to be funded from the transit vehicle replacement reserve.

RECOMMENDATIONS

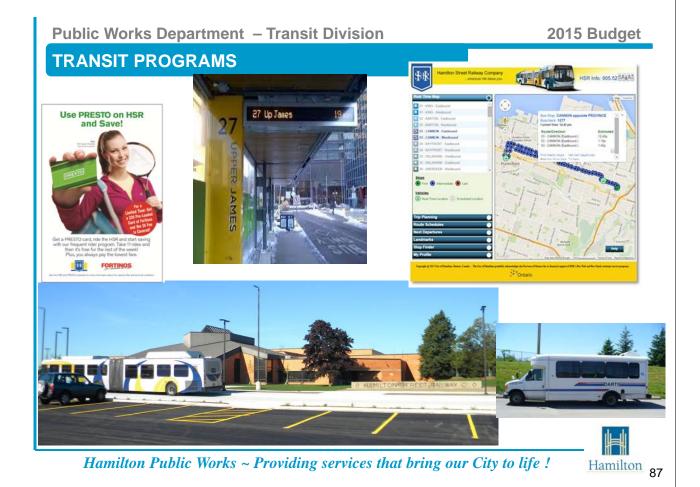
- 2. Approve new Service Standards for the objective implementation of service.
- 3. Approve the fare increases as detailed in this report, including the following fare increases aligned with service improvements:
 - a. 25 cents in September, 2015;
 - b. 10 cents in September, 2016, 2017 and 2018; and,
 - c. annual fare increases of at least CPI thereafter.
- 4. Develop a submission to Metrolinx for the unfunded capital requirements contained in the Ten Year Local Transit Strategy.

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- → Community
- → People
- → Processes
- → Finance

Hamilton Public Works



Public Works Department – Transit Division

2015 Budget

OVERVIEW OF SERVICES

Purpose / Function

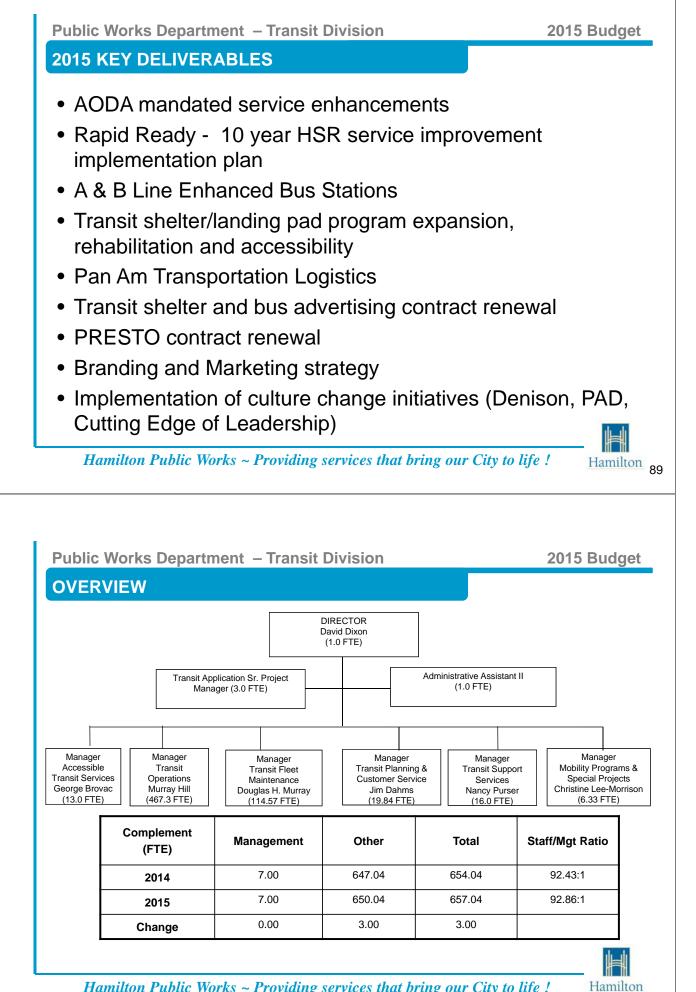
Operationalize an integrated transportation system which serves the entire city in an affordable, efficient, and accessible way. Our transportation system improves community health by reducing the need for automobile use and making it easy and attractive to utilize transit, walk, cycle, skateboard or roller-blade.

Services Provided

Conventional Transit Rapid Transit Specialized Transit

OPERATIONS DIVISION (\$000)					
54,355,840	2014 NET RESTATED BUDGET				
56,336,930	2015 NET REQUESTED BUDGET				
1,981,090	2015 NET CHANGE				
657.04	2015 FTE				





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Public Works Department – Transit Division

2014 ACCOMPLISHMENTS - TRANSIT

- AODA service enhancements in ATS (+66,000 Trips)
- Rapid Ready HSR (+26,400 Hours)
- MTC Park 'n Ride
- Mohawk College Transit Hub Agreement
- A & B line enhanced stops construction award (10)
- Real time data available platform departure displays, trip planner, bus check, open data
- 18 CNG Articulated buses
- 46 Expansion Bus Shelters
- All Pass agreement renewals (University, College, etc.)
- PRESTO Implementation Third Party Network
- TransCab RFP awarded

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Public Works Department – Transit Division

TRANSIT

Services Provided & Key Facts

- HSR Conventional Transit provide 22.0 M trips
- Trans cab
- Transit Infrastructure maintenance of 2,210 bus stops, 602 bus shelters, 19 loops and terminals, 1 Park n' Ride
- ATS DARTS Contract Management 665,000 trips
- Taxi Scrip

2015 Budget Request (\$000's)				
Operating Budget				
Gross	106,116			
Revenues	(49,772)			
Net	56,344			
\$ increase from 2014	1,981			
% increase from 2014	3.6%			

2014 Budget R/C Ratio	45.30%
2015 Budget R/C Ratio	44.58%



2015 Budget

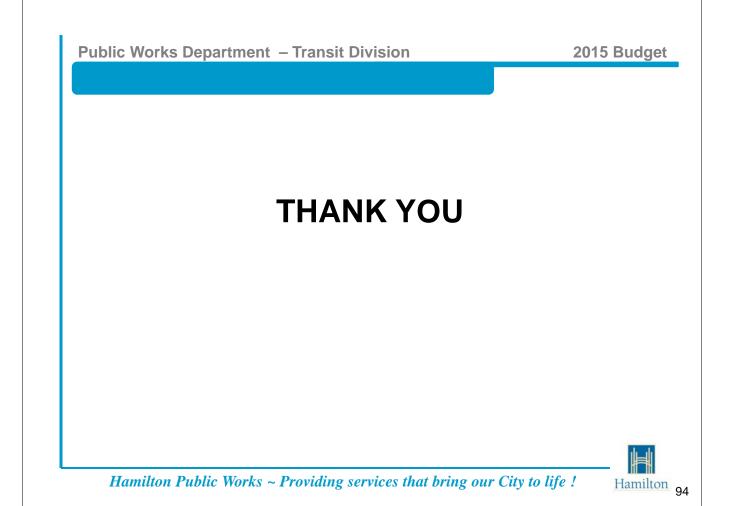


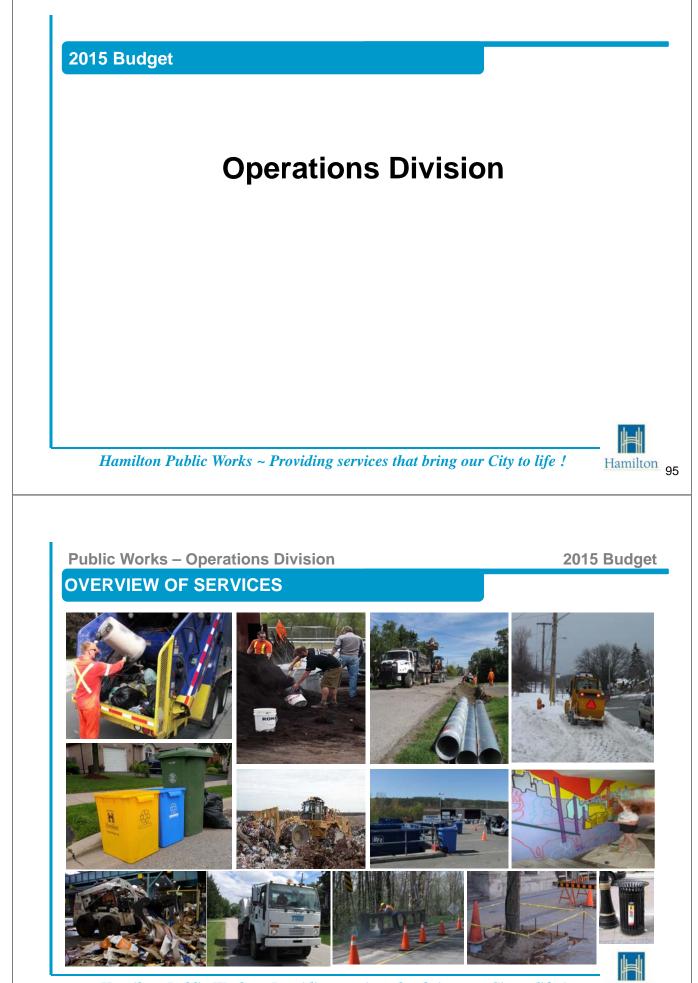
Public Works Department – Transit Division

2015 MAJOR COST DRIVERS FOR DIVISION

Description	(\$000s)
Annualized Impact of 2014 approved Transit enhancement (PW14015)	747
DARTS Contract	760
Vehicle Reserve Council Approved OBRP Phase-in (Year 5 of 8)	513
Costs due to changes in McMaster Route Realignment	484
New Taxi Contract	61
NGV Station Maintenance	55
Route 56 – reduction of Tax Stabilization Contribution (PW12009b)	50
Fare Box Revenue Growth	(580)







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OVERVIEW OF SERVICES

Purpose / Function

The Operations Division is responsible for operating and maintaining Public Works assets valued at approximately \$3.2B including 6,399 roadway lane kms; 2,382 kms of sidewalks; 98 kms of City owned alleyways, 392 bridges and major culverts; storm water management facilities, 42,891 catch basins and 169 storm water ponds. An integrated waste management system collecting and processing approximately 235,000 tonnes of materials annually including the operations and maintenance of 3 Transfer Stations/Community Recycling Centres (CRCs), Material Recycling Facility (MRF), Central Composting Facility (CCF), Glanbrook Landfill and 12 closed landfills ..

Services Provided

Roads Operations

Winter Control Roadway & Sidewalk Infrastructure

Maintenance

Storm Water Facilities Operation Maintenance

Business Programs

- Customer Service and Education
- Data Management **Operational Efficiencies &**
- Performance

- Waste Management Waste Collection
- Downtown, BIA & Alleyway Cleanliness
- Recycling & Waste Disposal
 - **Contaminated Sites**
 - Management

Capital Rehabilitation

	OPERATIONS DIVISION (\$0
92,863	2014 NET RESTATED BUDGET
98,730	2015 NET REQUESTED BUDGET
5,867	2015 NET CHANGE
423.75	2015 FTE

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Public Works – Operations Division

2015 KEY DELIVERABLES

Delivering Service - Core programs

+ Pan Am support

Program Optimization Initiatives

- Route rationalization (Winter Control, Waste Collection)
- Develop strategy for program base adjustments to reflect operating impacts from inventory growth for road networks and new storm water ponds (catch up & fwd)
- Staff Performance Management
 - Organization Structure and Business Improvements -recent reorganization
 - Employee Performance Management (Performance Accountability Development)
 - Implement Denison Culture Survey and Develop Action Plan & Vision / Mission
 - Next generation of Supervisor "Boot Camp"
 - Staff succession planning initiatives Managers, Superintendents & Supervisors Development
- LEAN review pilots process optimization
- Increase waste diversion through the continued expansion of the green cart program for eligible businesses and City facilities, optimization of the multi-residential diversion program & audits



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2015 Budget

Hamilton 97



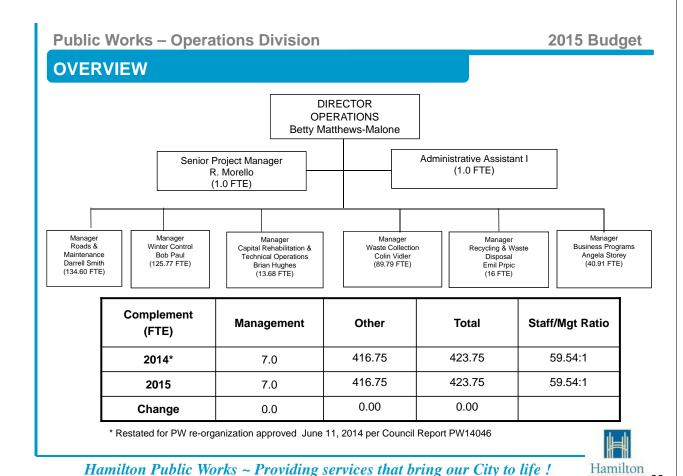
Public Works – Operations Division

2015 KEY DELIVERABLES con't.

Projects

- Service Reviews
 - Alleyways
 - **District East** •
 - Resurfacing equipment
- Glanbrook Landfill Stage 3 Development
- Automated Vehicle Location (AVL) tracking system for waste collection fleet as part of the City's corporate AVL system
- West Hamilton Closed Landfill
 - Chedoke Creek South Bank Stabilization
 - Leachate collector installation, bank re-vegetation, providing wildlife & stream habitat
- Central Composting Facility
 - New compost regulation impacts and risk if no bridging allowance
- Remediation of Central Park ٠
- Inventories – continuation of cross culverts, retaining walls, fences, guiderails
- Inspections sidewalk regulations •
- Technologies Hansen 8 migration and road classification link for road patrol •

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Hamilton 99

2015 Budget

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Public Works – Operations Division

2015 Budget

2015 MAJOR COST DRIVERS FOR DIVISION		
Description		Amount (\$000s)
 Waste Collection Contracts (<i>increased service requests</i>) Escalation Growth 	545	930
Waste Disposal Contracts Municipal Law Enforcement Illegal Dumping Project cost	385	360
allocation (PED11127f/PW11051g) Storm water Management		200 1,070
Winter Season Winter Control Winter Maintenance		1,721 176
Revenues Recycling Revenues TS/CRC Revenues		386
TS/CRC Revenues Reduction in HRPI recoveries and dividends revenue		174 100
Hamilton Public Works ~ Providing services that bring o	our City to lij	<i>fe !</i> Hamilt
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Public Works – Operations Division

2014 ACCOMPLISHMENTS - ROADS

- Some key deliverables (as of Sept. 2, 2014):
 - 11,800 sq. m of sidewalk replaced
 - 6,583 trip hazards removed by leveling
 - 71 km of rural road resurfacing
 - · 43 km of road side ditching
 - 46,100 lane km of sweeping
 - · 28,000 service requests received and investigated (Winter and Summer)
 - Preparation for 2015 Pan Am Games
- Implement 2014 Enhancements
 - · Catch basin inspection and cleaning initiative
 - Road Patrol program improvements
- Managing Unplanned Infrastructure Contingencies, e.g.
 - · Escarpment Failures, Sydenham & Kenilworth
 - Marston Street Bridge Failure
 - Ice Storm and Winter Clean up
 - · Additional Area Rating / Capital Funding works completed
- Supervisor "Boot Camp"
- Winter of 2014....



Public Works – Service Profile

ROADS

Services Provided

Infrastructure & Maintenance Program

- Road Patrol & Inspection of Roadway infrastructure
- Repairs to roads, sidewalks, bridges, culverts
- Surface maintenance (sweeping & flushing)
- Maintenance to gravel Road shoulder & ditches
- Collection of roadside litter/dumping
- Mowing rural roadsides and boulevards
- Removal of Hazards (e.g. debris on roadways)
- Catch Basin Inspection, cleaning and repair
- Accident & Emergency Response
- Neighbourhood Clean Program (Adopt-a-Road)
- Road Closures (permanent and temporary)
- Emergency Response

Storm Water Management Facility Maintenance - Inspections, maintenance repair and rehabilitation

Capital Rehabilitation & Technical Operations

- approx. \$14M in minor capital & rehabilitation works
 - Shoreline protection

Winter Control Program

- Winter road patrol, materials application, ploughing, snow removal/disposal
- Sidewalk clearing for municipal & school properties

2015 Budget Request (\$000s)				
Operating Budget				
Gross	58,532			
Revenues	(1,327)			
Net	57,205			
\$ increase from 2014	3,100			
% increase from 2014	5.7%			

Cost per household 2014	247.61
Cost per household 2015	259.22
% Change from 2014	4.7%









2015 Budget

2015 Budget



Winter Control Program Approved Service Levels

	Winter Control Level of Service Standards								
Road Classification		Surface C	ondition	Snow Ac	cumulation Treatment				
Туре	Priority	Target Surface Condition	Response Time	Target Response	Completion Time	Anti- Icing	De- icing	Salt	Sand/ Salt
Linc/Arterials	1	Bare	Immediate	2.5 cm	4 hrs	*	*	*	*
Escarpment Crossings	1	Bare	Immediate	5 cm	4 hrs	*	*	*	*
Primary Collectors e.g. Whitney Ave	2A	Bare	4 hrs	8 cm	8 hrs		*	*	*
Secondary Collectors e.g. Fletcher Rd	2B	Centre Bare	4 hrs	8 cm	8 hrs		*	*	*
Rural Roads Hard Surface e.g. Golf Club Rd	3	Centre Bare	8 hrs	10 cm	24 hrs				*
Residential e.g. Ravina Cres	3R	Bare	8 hrs	8 cm	24 hrs		*	*	*
Loose-top Rural Roads e.g. Trimble Rd	3	Snow Packed	12 hrs	10 cm	24 hrs				

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Public Works – Operations Division

2015 Budget

WINTER CONTROL PROGRAM (WCP)

Operating Budget History				
Year Budget*		ar Budget* Actuals*		
2005	17,475,180	25,146,486	(7,671,306)	
2006	19,894,140	13,119,669	6,774,471	
2007	20,125,980	26,984,343	(6,868,363)	
2008	24,106,992	32,289,976	(8,182,984)	
2009	24,262,205	21,862,546	2,399,659	
2010	22,628,529	16,605,231	6,022,998	
2011	23,656,220	24,504,797	(838,737)	
2012	21,271,010	16,731,900	4,529,270	
2013	21,578,760	26,263,060	(4,684,300)	
2014	22,749,570	30,750,000**	(8,000,000)	
2015	24,471,400			

*EXCLUDES RESERVE CONTRIBUTIONS

** Estimated at January 6, 2015



WASTE COLLECTIONS



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WASTE COLLECTION

Services Provided

- Waste Collection program handling 176,000 tonnes per year of residential waste
- Organics (green cart), Recycling, Leaf and Yard Waste, Garbage and Bulk waste collection
- Street-side public space container collection
- Festival & Special Events Waste Diversion
- Cleanliness Programs and Clean City Initiatives

2015 Budget Request (\$000s)				
Operating Budget				
Gross	29,927			
Revenues	(57)			
Net	29,870			
\$ increase from 2014	1,464			
% increase from 2014	5.2%			
Cost per household 2014	130.00			
Cost per household 2015	135.35			
% Change from 2014	4.2%			



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2015 Budget

Public Works – Service Profile

2014 ACCOMPLISHMENTS - WASTE MANAGEMENT

- Executed contract extension for the operation of the City's Household Hazardous Waste program
- Completed an interactive customer survey focusing on service at the City's Community Recycling Centres
- Implemented collection and processing of mixed rigid plastics at Community Recycling Centres
- Partnered with Region of Peel for the conversion of cooking oil to biodiesel
- Pump station re-location with infrastructure upgrades for the development of stage three at Glanbrook Landfill
- Won SWANA silver Excellence Award for recycling
- Generated \$1M in revenues from the processing of merchant capacity organics at the CCF
- +262,000 vehicle visits at Transfer Stations and Community Recycling Centres
- Processed 46,000 tonnes of blue box material at MRF and 54,900 tonnes of green cart organics and leaf and yard waste at two composting sites
- Landfilled 141,000 tonnes of waste at the Glanbrook Landfill

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Public Works – Service Profile

RECYCLING AND WASTE DISPOSAL

Services Provided :

- Household Hazardous Waste program
- Transfer Stations (3) and Community Recycling Centres (3)
- Leaf and Yard Waste compost site
- Glanbrook Landfill Site
- Central Composting Facility (CCF)
- Materials Recycling Facility (MRF)
- Monitoring and remediation of closed landfill sites (12)
- Site remediation services for other sections
- Management of Contaminated Sites Program for Public Works
- Commodity Revenues MRF

he City's	
	· BARK







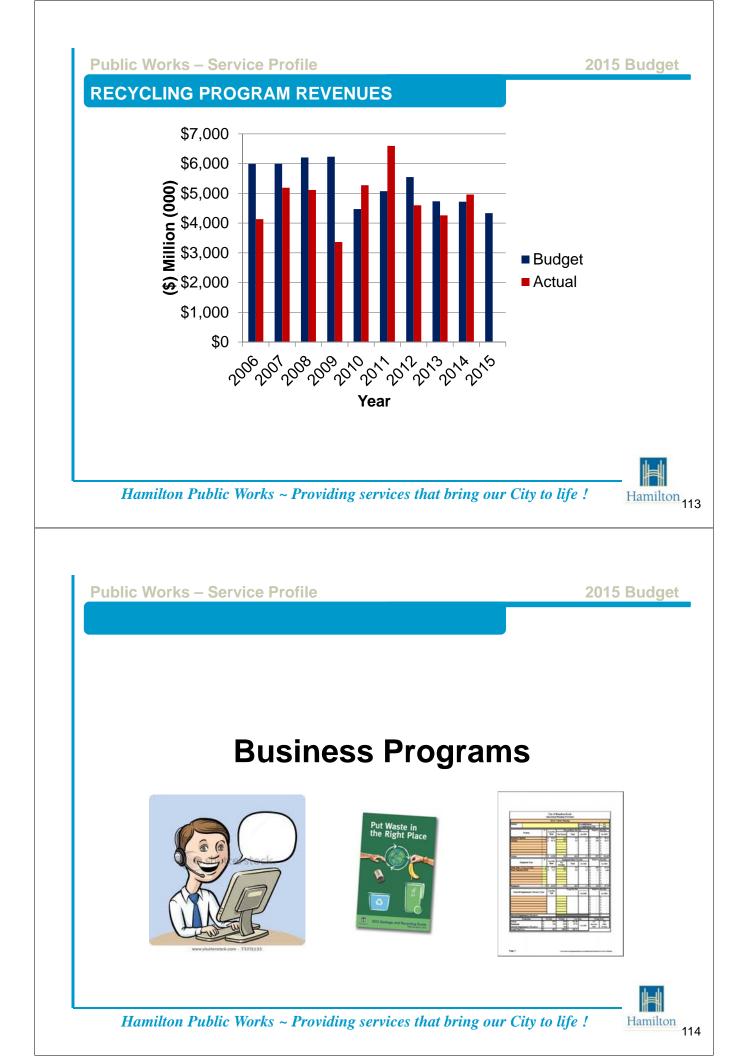
2015 Budget

2015 Budget Request (\$000s)Operating BudgetGrossGross20,991Revenues(13,501)Net7,490\$ increase from 20141,077% increase from 201416.8%

Cost per household 2014	29.35
Cost per household 2015	33.94
% Change from 2014	15.6%



2015 Budget



Public Works – Service Profile

BUSINESS PROGRAMS

2014 Accomplishments

- 229,000 customer service requests
- 87,000 work orders generated for activity based costing purposes
- 100 training courses and programs coordinated
- 17,142 volunteers engaged in "*Team Up to Clean Up*" programs, 34,000 volunteer hours and a value of nearly \$1 million
- Graffiti management strategy pilot projects presented to GIC and received support to implement
- Awarded a SWANA bronze excellence award for public education related to our grey cart pilot project (multi-res)
- 1491 properties visited for gold box audits with a 47% win rate
- 85% of multi-res buildings re-engaged and using green carts and blue carts for waste diversion
- 566 commercial properties visited to discuss the benefits of waste diversion
- 5230 students and community members attend 68 presentations to learn about waste diversion



Public Works – Service Profile

BUSINESS PROGRAMS

- Customer Service representatives for Division
- Support client field operations through data entry, data management, analysis and performance metrics
- Community outreach and education
- Plan, develop and implement programs and strategies to improve effectiveness and efficiency
- Support operational divisions by coordinating policy and procedures, audits and reports

2015 Budget Request (\$000s)		
Operating Budget*		
Gross	4,184	
Revenues	(16)	
Net	4,168	
\$ increase from 2014	226	
% increase from 2014	5.7%	

Cost per household 2014	18.04
Cost per household 2015	18.88
% Change from 2014	4.7%



Community Clean ups

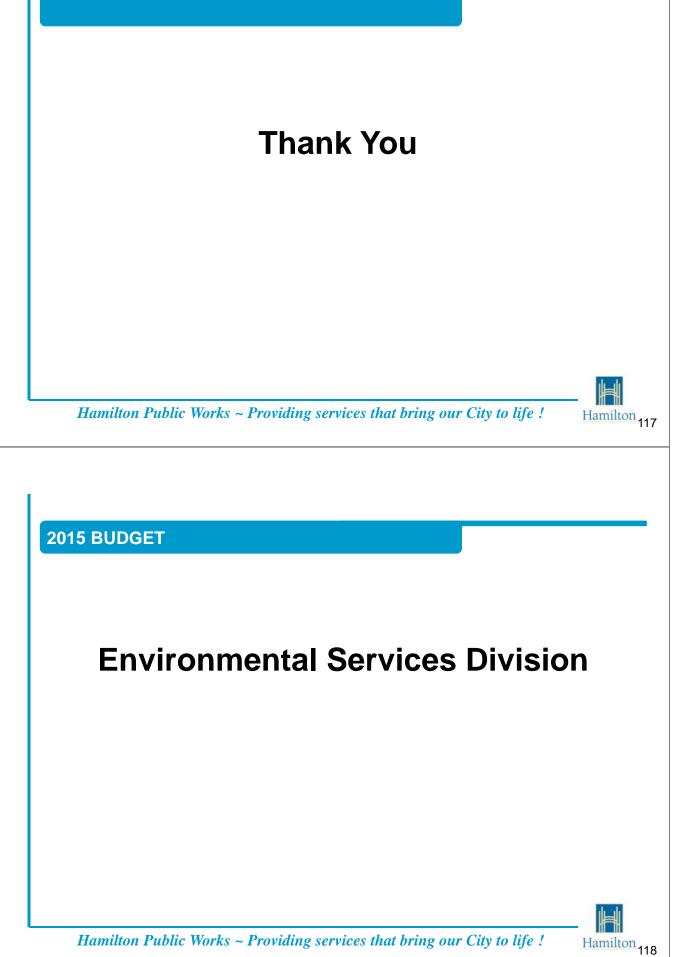




2015 Budget

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2015 Budget



OVERVIEW OF SERVICES





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Public Works – Environmental Services Division

2015 Budget

OVERVIEW OF SERVICES

Purpose / Function

The Environmental Services Division is responsible for operating and maintaining public works assets including: 501 acres (203 hectares) of municipal cemeteries at 69 sites; trees on City streets and parks; horticultural features in 282 floral traffic islands, 89 medians/boulevards/laybys, 52 civic properties, 4,231 acres (1,712 hectares) of municipal park, shared school park and open space at 511 sites.

Services Provided

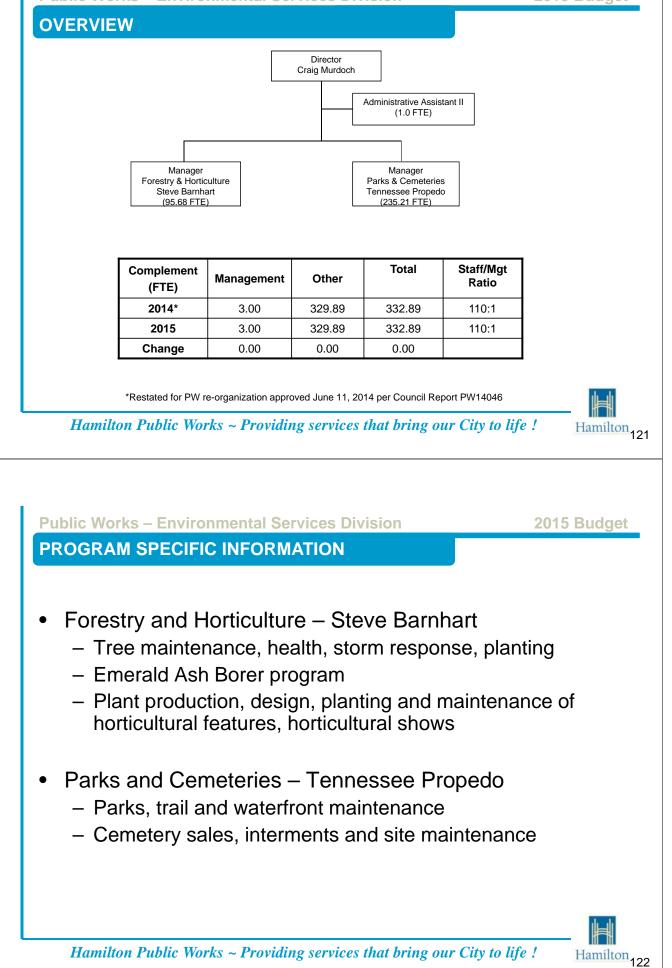
Forestry Horticulture

Parks Maintenance Cemeteries

ENVIRONMENTAL SERVICES (\$000)		
2014 NET BUDGET	32,204	
2015 NET REQUESTED BUDGET	32,594	
2015 NET CHANGE	390	
2015 FTE	332.89	



2015 Budget



2014 ACCOMPLISHMENTS – FORESTRY / HORTICULTURE

Forestry

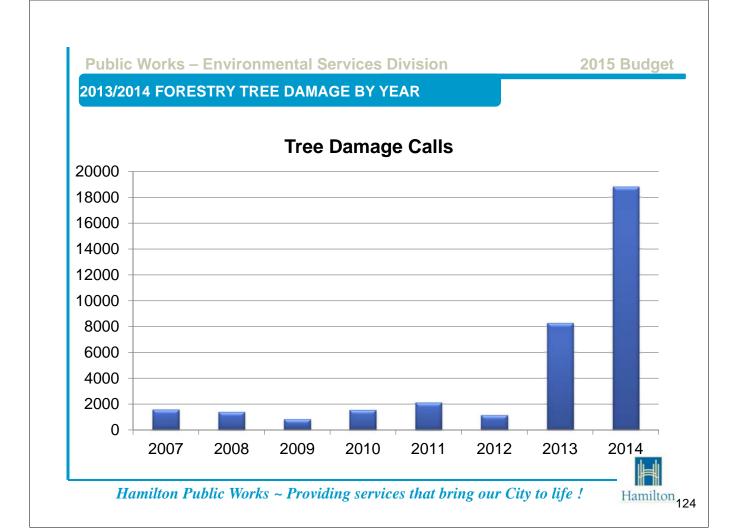
- Responded to 35,886 service requests in 2014 (22,000 storm related)
- 7,974 trees planted
- 1,989 trees removed in 2014
- Responded to 2 storm events; 13,573 calls + 5,266 request for brush pickup
- 18 grids trimmed
- Forestry building renovations substantially complete

Horticulture

- Annual flower production = 205,000
- 94th Annual Mum Show to be held in October
- Spring Tide bulb show held in March







2015 Budget

FORESTRY

Services Provided & Key Facts

Plants, maintain, and care for City owned trees growing along road allowances, in parks, and open spaces. On call 24/7, staff respond to emergency storm damage across the City. Services include

- Street Tree Trimming 155,000 in the urban roadway right of way (ROW)
- Tree Removals
- Stump Removals
- Street Tree Planting
- Parks Tree Planting
- Emergency Response
- Forest Health Program
- Urban Forestry Protection
- Customer Service

2015 Budget Request (\$000s)			
Operating Budget			
Gross	9,571		
Revenues	(1,895)		
Net	7,676		
\$ increase from 2014	109		
% increase from 2014	1.4%		

Cost per household 2014	34.63
Cost per household 2015	34.78
% Change from 2014	0.4%



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Public Works – Environmental Services Division

HORTICULTURE

Services Provided & Key Facts

Plans & delivers various operating and maintenance services to beautify the City through streetscape & park horticultural features including:

- Design and planting of floral traffic Islands (287) planters (307) and roundabouts (62) traffic medians(89)
- Hanging baskets (640)
- Provide horticulture maintenance for 7 BIA's
- Park floriculture Displays
- Annual Mum Show event and showcase of the Section's programs
- Spring Tide Show
- Green House Production
- City building garden maintenance at 52 civic properties

2015 Budget Request (\$000s)			
Operating Budget			
Gross	3,644		
Revenues	(141)		
Net	3,503		
\$ increase from 2014	14		
% increase from 2014	0.4%		

Cost per household 2014	15.97
Cost per household 2015	15.87
% Change from 2014	(0.6%)





Public Works – Environmental Services Division 2014 ACCOMPLISHMENTS - PARKS / CEMETERIES

Parks

- 51,020 acres of general parkland grass cut
- 3,462 Sports fields mown
- 4,528 Ball diamonds mown
- 33,838 acres of grass trimmed
- 128,735 garbage cans emptied
- 2,635 play structure inspections
- 87,422 general park and sports park washrooms units cleaned
- 4 Christmas displays installed and removed (Gore Park, City Hall, Dundas, Ancaster)
- 2 pilots run (phragmites removal and tablet based field inspections)

Cemeteries

- 67 sites maintained
 - 498 acres (202 hectares)
 - 20 sites with available land
- 4 sites signs converted from wood to granite
- 1,202 Interments (includes traditional and cremated)

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Public Works – Environmental Services Division

PARKS

Services Provided & Key Facts

Plans and delivers operations and maintenance services for 1,712 hectares (4,231 acres) of municipal park and open space properties at 511 sites. Services include:

- Turf maintenance
- Playground inspections & repairs (271 playgrounds with 294 play structures, 61 Spray pads)
- Litter control and garbage pick up
- Playing field maintenance
- General Grounds and Trails Maintenance (over 65 km of trails)
- Special Event Support
- Seasonal displays
- Customer Service

2015 Budget Request (\$000s)	
Operating Budget	
Gross	19,231
Revenues	(241)
Net	18,990
\$ increase from 2014	191
% increase from 2014	1.0%

Cost per household 2014	86.04
Cost per household 2015	86.05
% Change from 2014	0.0%









2015 Budget

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CEMETERIES

Services Provided & Key Facts

For 2015 -Plan and deliver operations and maintenance for 501 acres of municipal cemeteries at 69 locations. Services include:

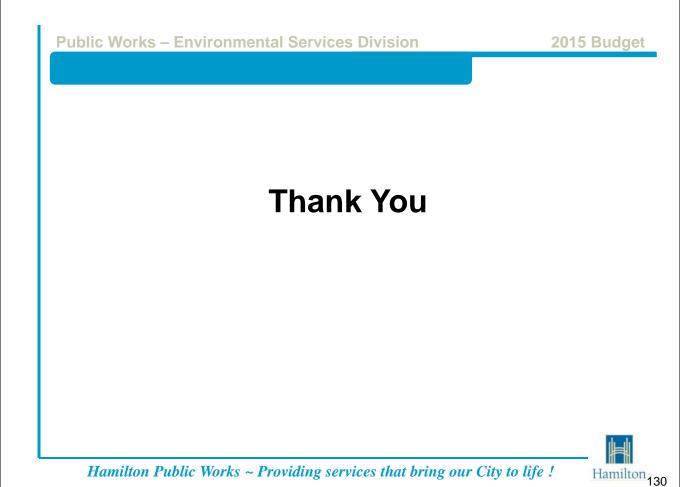
- · Input and storage of records of all burials in municipal cemeteries
- Internments
- Monument Foundation Installations
- Perpetual Care
- Grounds Maintenance
- Marketing and Development
- Full range of customer services
- Regulatory compliance

2015 Budget Request (\$000s)	
Operating Budget	
Gross	4,554
Revenues	(2,129)
Net	2,425
\$ increase from 2014	76
% increase from 2014	3.2%

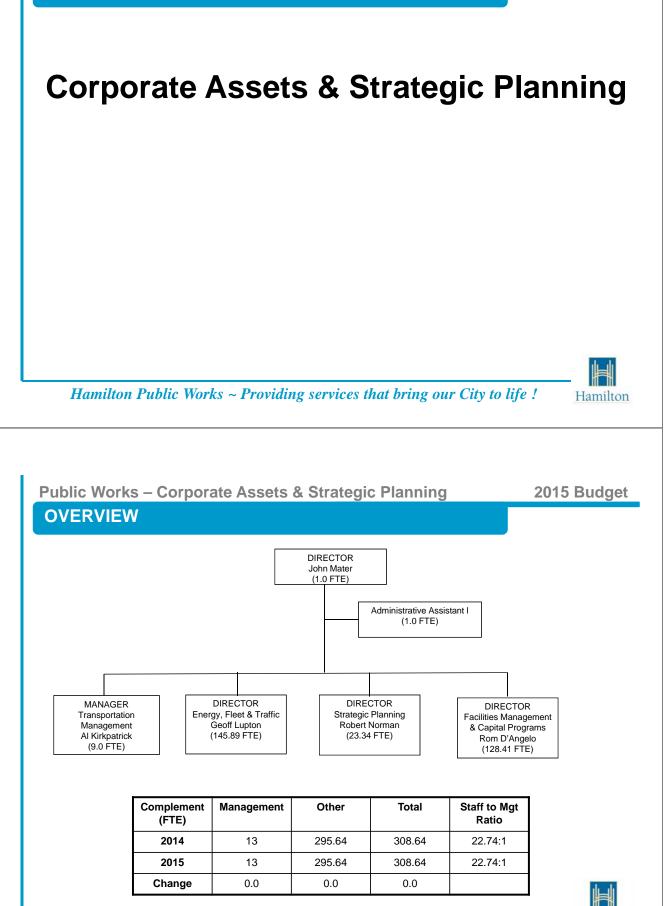
Cost per household 2014	10.75
Cost per household 2015	10.99
% Change from 2014	2.2%



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2015 BUDGET



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2015 Budget

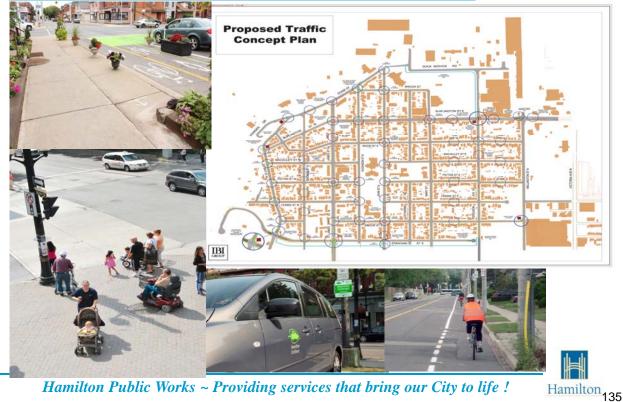
Hamilton

PROGRAM SPECIFIC INFORMATION	
Energy, Fleet and Traffic – Geoff Lupton	
Office of Energy Initiatives	
- Central Fleet	
- Traffic Operations and Engineering	
Strategic Planning – Robert Norman	
 Landscape Architect Services 	
 Policy and Programs Waterfront Development 	
Facilities Management and Capital Programs – Rom D'	
 Strategic Planning, Capital and Compliance Facilities Operations and Technical Services ~ Community and 	Corporata
Buildings	Corporate
 Sport and Entertainment 	
Transportation Management– AI Kirkpatrick	
 Pedestrian, Cycling, Transportations Demand (TDM) 	
 Transportation Management Hamilton Public Works ~ Providing services that bring our City to lip 	fe ! Hamilto
Hamilton Public Works ~ Providing services that bring our City to lij ublic Works – Corporate Assets & Strategic Planning	fe ! Hamilto
Hamilton Public Works ~ Providing services that bring our City to lig Public Works – Corporate Assets & Strategic Planning	
Hamilton Public Works ~ Providing services that bring our City to lig ublic Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS	2015 Budge
Hamilton Public Works ~ Providing services that bring our City to lig ublic Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS Description	2015 Budge Amount (000's)
Hamilton Public Works ~ Providing services that bring our City to lig Public Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS Description Court House Lease Facilities Contractual Services (Snow Removal ; Building Cleaning , majority of this is	2015 Budge
Hamilton Public Works ~ Providing services that bring our City to lip Public Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS Description Court House Lease Facilities Contractual Services (Snow Removal ; Building Cleaning , majority of this is recovered) Facilities Building Repairs – increased to reflect historical actuals, majority of this is	2015 Budge Amount (000's) 1,535
Hamilton Public Works ~ Providing services that bring our City to lig Public Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS Description Court House Lease Facilities Contractual Services (Snow Removal ; Building Cleaning , majority of this is	2015 Budge Amount (000's) 1,535 480
Hamilton Public Works ~ Providing services that bring our City to lip ublic Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS Description Court House Lease Facilities Contractual Services (Snow Removal ; Building Cleaning , majority of this is recovered) Facilities Building Repairs – increased to reflect historical actuals, majority of this is recovered Facility Recoveries from User Groups	2015 Budge Amount (000's) 1,535 480 1,100
Hamilton Public Works ~ Providing services that bring our City to lip Public Works – Corporate Assets & Strategic Planning MAJOR COST DRIVERS Description Court House Lease Facilities Contractual Services (Snow Removal ; Building Cleaning , majority of this is recovered) Facilities Building Repairs – increased to reflect historical actuals, majority of this is recovered	2015 Budge Amount (000's) 1,535 480 1,100 (1,118)



Public Works – Corporate Assets & Strategic Planning

TRANSPORTATION MANAGEMENT



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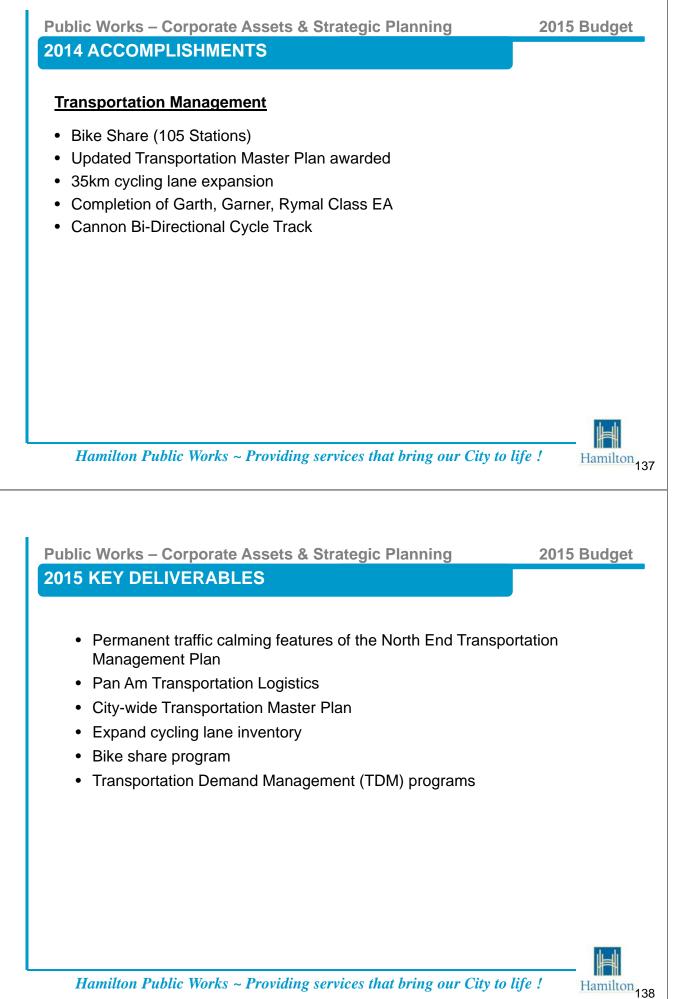
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2015 Budget

TRANSPORTATION MANAGEMENT – TEAM OVERVIEW

- To develop policies and strategies in collaboration with key internal/external stakeholders for the City's transportation network and infrastructure to 2031 and beyond.
- The goal is to provide the needs to support the City's economic development and resident's quality of life.
- The elements of Transportation Management support Complete Streets initiatives including roads, transit, cycling, walking and determining the highest and best use of the City's infrastructure to support Goods Movement via roads, rail, marine and aviation facilities.
- In addition to the high level, long-term approach to transportation management, the group is also involved in several key, in-year and short term implementation projects.





TRANSPORTATION MANAGEMENT

Services Provided & Key Facts

- Area Specific Transportation Management Plans/Projects following the EA Process
 - Centennial Neighbourhoods TMP
 - Highway 403 Ramp
 - Various Neighbourhood Action Plans
- City-wide Transportation Master Plan
 Update
 - Including one way street network
 - Extensive public engagement
- Transportation Demand Management (TDM) Programs
 - Smart Commute Hamilton (90,000 employees)
 - Active Transportation Initiatives
 - Cycling
 - Pedestrian Mobility
 - Safe Routes to School
- Special Projects
 - Niagara to GTA (NGTA) Western
 - Golden Horseshoe Municipal Network
 - Pan Am Transportation

2015 Budget Request (\$000's)	
Operating Budget	
Gross	1,260
Revenues	(1,176)
Net	84
\$ increase from 2014	0
% increase from 2014	0%

2014 Cost per Household	\$0.39
2015 Cost per Household	\$0.38



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 ✓ Fire Stations ✓ Libraries ✓ Yards ✓ Cemeteries ✓ Leased Corporate Facilities ✓ Civic Properties ✓ Libraries 	Facility Information	
 RECREATION FACILITIES ✓ Recreation Arenas 	\$1.5 BILLION IN ASSETS	
 ✓ Recreation Centers ✓ Indoor/Outdoor Pools 	7.5 MILLION IN SQUARE FEET	
 ✓ Community Halls ✓ Park Buildings ✓ Golf Operations ❑ ENTERTAINMENT FACILITIE 	 \$10.68 MILLION IN 2015 BLOCK FUNDING Recreation \$5,100 M Corporate \$4,580 M Entertainment Facilities \$1,000 M 	
 ✓ Copps Coliseum ✓ Hamilton Place ✓ Convention Centre ✓ Tim Horton's Field 	 □ \$46.3 MILLION CAPITAL (Gross) (recommended) ✓ POA Relocation \$ 27 M ✓ Bernie Morelli Centre \$ 19 M (multi-year project) 	
Hamilton Public Works ~ Providing services that bring our City to life ! Hamilton		
Public Works – Corporate Assets & Strategic Planning 2015 Budget FACILITIES MANAGEMENT & CAPITAL PROGRAMS		

Public Works – Corporate Assets & Strategic Planning

and process in order to manage the City's Building Environment;

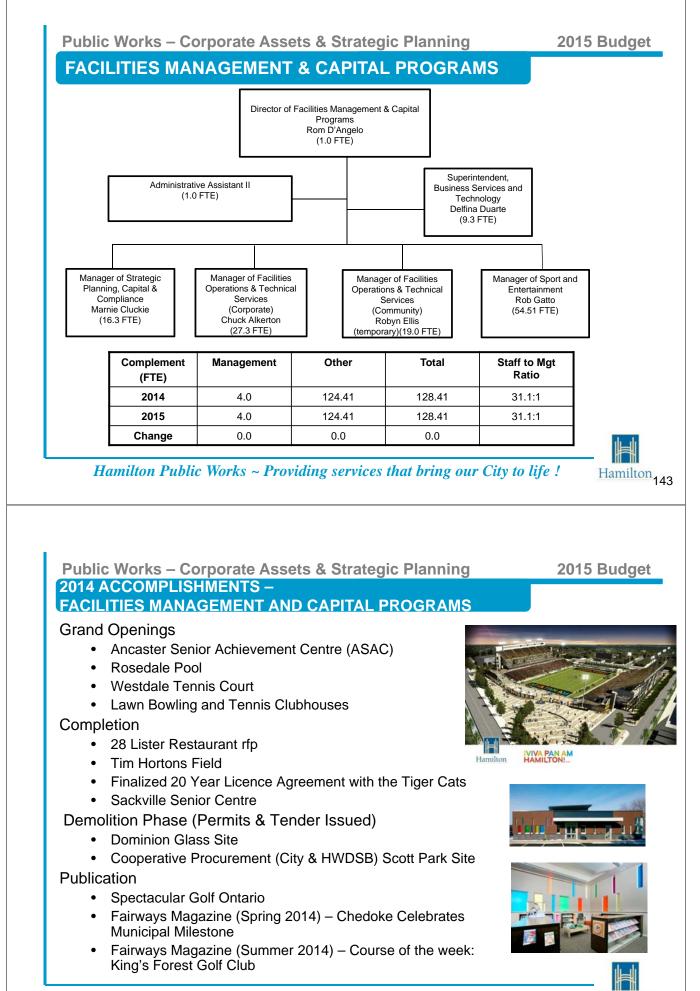
Facility Management is based on using 11 IFMA core competencies:

11 IFMA Core Competencies	
1) Communication	7) Operations and Maintenance
2) Emergency Preparedness and Business	8) Project Management
Continuity	
3) Environmental Stewardship and	9) Quality Management Program
Sustainability	
4) Finance and Business	10) Real Estate And Property Management
5) Human Factors	11) Technology
6) Leadership and Strategy	

* IFMA ~ International Facility Management Association



2015 Budget



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Public Works – Corporate Assets & Strategic Planning

2015 KEY DELIVERABLES

- Golf Business Plan Update
- Surplus of Properties
 - 52 56 Charlton (Lynwood Charlton)
 - Waterdown Library (on Mill Street)
- Grand Opening of the following Facilities:
 - Green Acres Outdoor Pool
 - Waterdown Library & Senior Recreation Centre
- Freelton Outdoor Ice-Rink
- Waterdown Outdoor Ice-Loop
- Demolitions (Before Pan Am Games):
 - Scott Park Arena and School Site
 - Dominion Glass Site
- Courthouse Renovation (District Energy Satellite Site)
- Strategic Marketing Plan (Tim Hortons Field)



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Public Works – Corporate Assets & Strategic Planning 2015 Budget **FACILITIES MANAGEMENT & CAPITAL PROGRAMS Services Provided & Key Facts** Customer Service Management Facilities O&M (HVAC, plumbing, electrical, etc.) Capital Planning Project Management 2015 Budget Request (\$000s) Legislative & Code Compliance Accommodations Services Operating Budget Leasing Gross \$17,528 Property Management Revenues (\$10,949) • Preventative Maintenance Custodial Net \$6,579 Demolitions \$ increase from 2014 \$1,857 Procurement Services % increase from 2014 39.3%

- Help Desk
- Quality Management Program
- Technology Solutions
- Boardroom Bookings
- Access Management
- Golf and Turf Management
- Stadium Operations
- Pesticide Controls (Golf Courses only)
- Liaise between 3rd Party Operators

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Cost per household 2014

Cost per household 2015

% Change from 2014

* Court House Lease Lost Revenue = \$1.5 Million



\$21.61

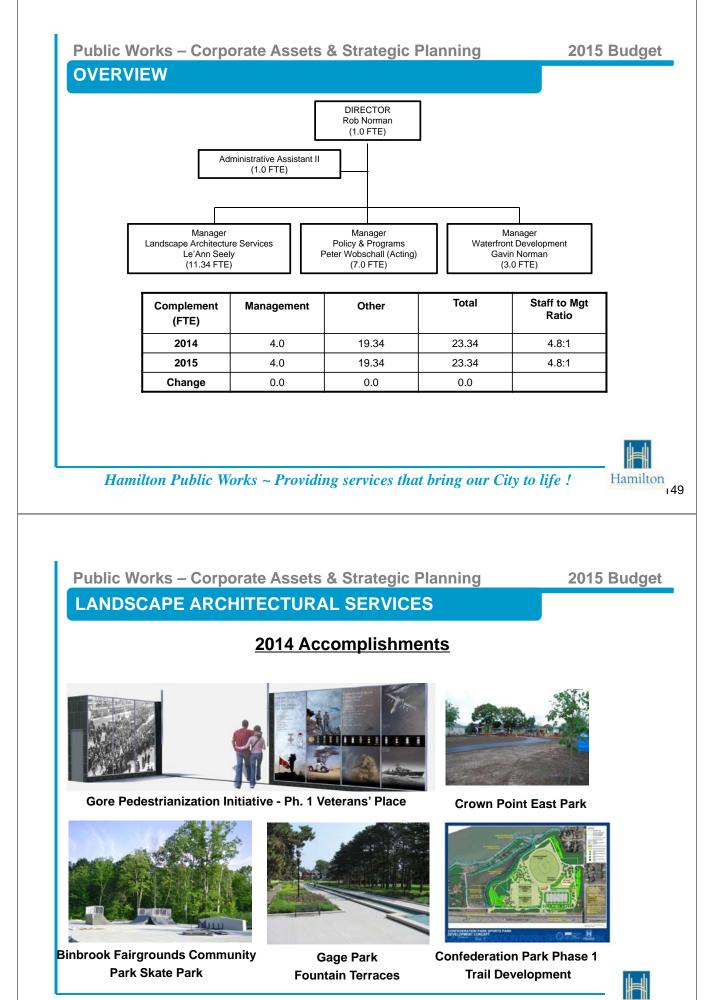
\$29.81

37.9%

2015 Budget



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Public Works – Corporate Assets & Strategic Planning

POLICY & PROGRAMS

2014 Accomplishments

- Finalized Burlington Heights Management Plan for the Cootes to Escarpment EcoPark System
- Implemented Food Truck Pilot Program in 7 City Parks
- Planned and implemented "Up Your Alley" pilot program in Ward 2
- Received and processed 6 Facility Naming requests
 including the Bernie Morelli Centre and Harry Howell Arena
- Confederation Park operating model review, renegotiation of tenant leases, and capital improvements to Sandbox Sports
- Coordinated Street Furniture Program Phase I bus bench contract renegotiation with Creative Outdoor Advertising to beautify streetscape for the 2015 Pan Am Games

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Public Works – Corporate Assets & Strategic Planning

WATERFRONT DEVELOPMENT

2014 KEY ACCOMPLISHMENTS

- Pier 7 Shoreline & Transient Docks, concept, design and construction tender
- Repairs to Pier 4 earth pier washout areas, construction tender
- Concept Plan for the future Pier 8 Park integrating the new Pumping Station and Underground Storage Tank - Completed
- Functional Plan for the new Harbour West Marina Dock Layout - Completed
- Establishment of the new Waterfront Development team
- Developed Master Gantt Chart scheduling principal projects and their dependencies



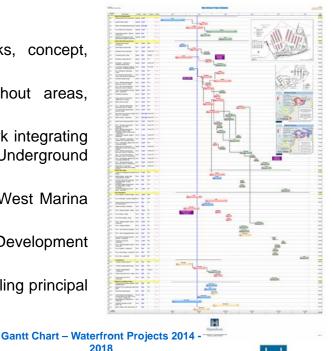




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2015 Budget

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LANDSCAPE ARCHITECTURAL SERVICES

2015 KEY DELIVERABLES

- Completion of Gore Park Phase 1 construction
- Commence construction of Beasley Park
- Commence construction of William Connell Park
- · Commence detailed design of Brian Timmis replacement field site

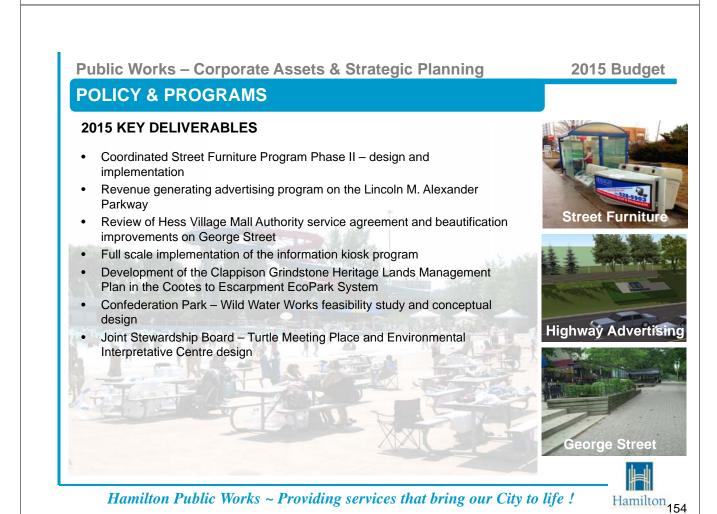
2015 Work plan includes:

- 27 Park Development Projects
- 26 Park Redevelopment Projects
 - o 2 Neighbourhood Action Plan
 - o 1 Downtown (3 Phases)
 - o 1 Shoreline protection with land acquisition



Gore Pedestrianization Initiative

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WATERFRONT DEVELOPMENT

2015 KEY DELIVERABLES

- Construction of the Pier 7 Shoreline & Transient Docks
- Harbour West Marina Breakwater design & tender
- Design of Shoreline Improvements & phase 1 tender
- Design of New Marina Docks and phase 1 tender
- Design of Future Streets & Infrastructure for Pier 8
- Functional Plan Pier 6-7 Marina Village & Square



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Public Works – Corporate Assets & Strategic Planning

2015 Budget

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STRATEGIC PLANNING

Services Provided & Key Facts

Landscape Architectural Services

- Provides professional planning, design, and construction administration services for parks, recreational trails, and open spaces
- LAS enhances the environment and recreational opportunities for the citizens of Hamilton

Policy & Programs

- Develops and implements programs and strategic directions to improve effectiveness and efficiency
- Programs foster opportunities in environmental stewardship, innovation & urban initiatives

Waterfront Development

• Professional design and construction administration for waterfront projects

2015 Budget Request (\$000s)		
Operating Budget*		
Gross	\$4,502	
Revenues	(\$2,635)	
Net	\$1,867	
\$ increase from 2014	\$192	
% increase from 2014	11.4%	

Cost per household 2014	\$7.67
Cost per household 2015	\$8.46
% Change from 2014	10.3%

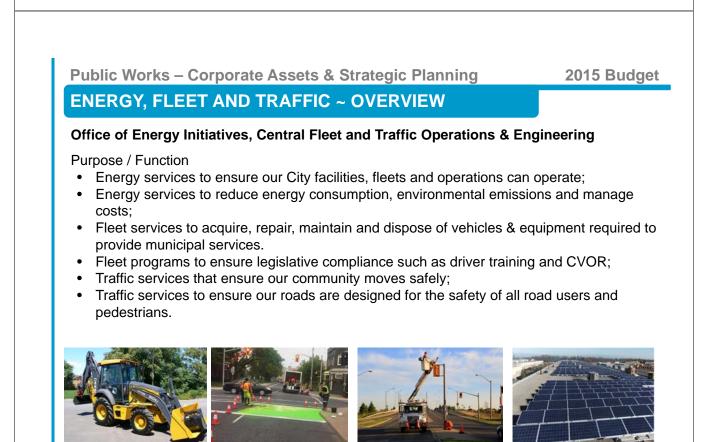
*LAS & Waterfront Development - 100% Recovered from capital



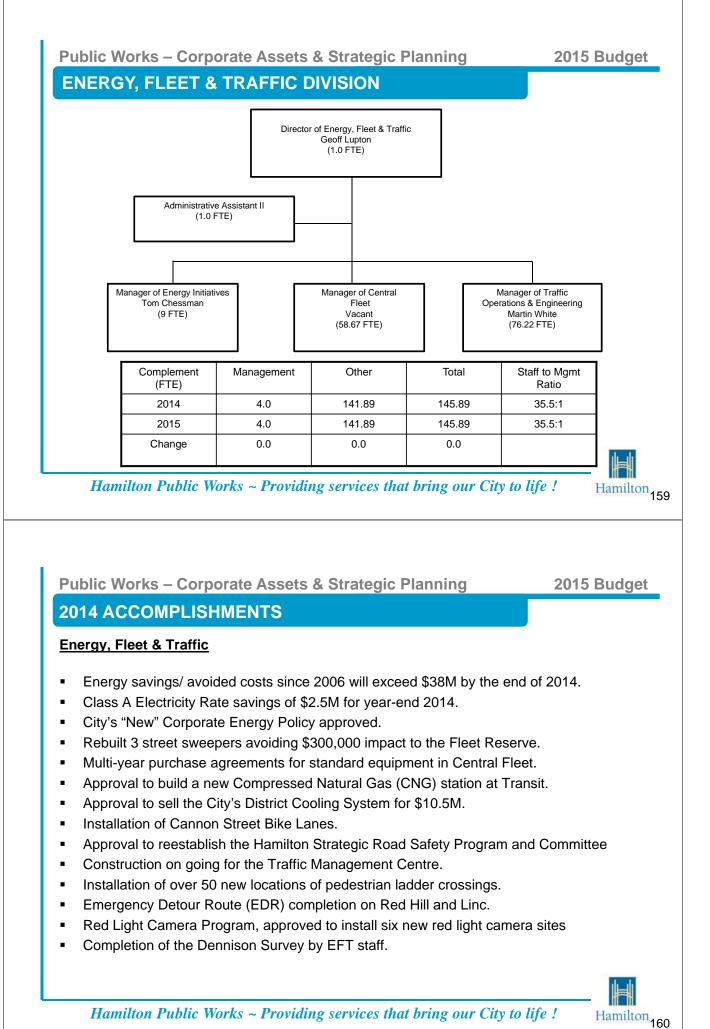
• Waterfront staff steering committee

Corporate Assets & Strategic Planning Energy, Fleet & Traffic

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2015 Budget

2015 KEY DELIVERABLES

Energy, Fleet & Traffic

- Sale of the City's District Cooling Assets to Hamilton Community Energy
- Annual Green Energy Act and Energy Reporting
- Construction of the Compressed Natural Gas (CNG) station at Transit
- Energy efficiency retrofits funded through Energy Reserve
- Fuel site review and capital strategy
- CVOR Committee focus on improving the City's CVOR Safety Rating.
- Assist the Service Delivery Team on recommendations for Fleet Services
- Update the City's Green Fleet Plan
- Complete migration from Avantis Fleet Management Software to Hansen.
- Installation of the City's "NEW" Traffic Management Systems
- Enhance School Zone Speed and Flasher Program
- Review high incident traffic collision locations
- Pan Am directional and way finding signing
- Re-establish the Hamilton Strategic Road Safety Committee and Program
- Review Dennison Survey Results and Plan Developing for each section

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Public Works – Corporate Assets & Strategic Planning

ENERGY, FLEET & TRAFFIC DIVISION

2015 Budget Request (\$000s)		
Operating Budget		
Gross	20,197	
Revenues	(10,766)	
Net	9,431	
\$ increase from 2014	367	
% increase from 2014	4.0%	

Cost per household 2014	41.49
Cost per household 2015	42.74
% Change from 2014	3.0%

ENERGY - Office of Energy Initiatives

Services Provided & Key Facts

Develop and manage energy conservation and demand management projects that reduce energy costs, consumption and environmental emissions which are major contributors to achieving the targeted reductions set out under the City Of Hamilton's "New" Corporate Energy Policy.

Provide corporate energy and commodity reporting, analysis, expertise and technical support. Monitor all Corporate Utility accounts for electricity, natural gas, water and fuel (exceeding \$45M annually). Manage the daily activities of:

- Hamilton Renewable Power Inc. (HRPI);
- BioGas Purification Plant;
- Daily Natural Gas and Fuel Procurement.



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TRAFFIC - Traffic Operations & Engineering

Services Provided & Key Facts

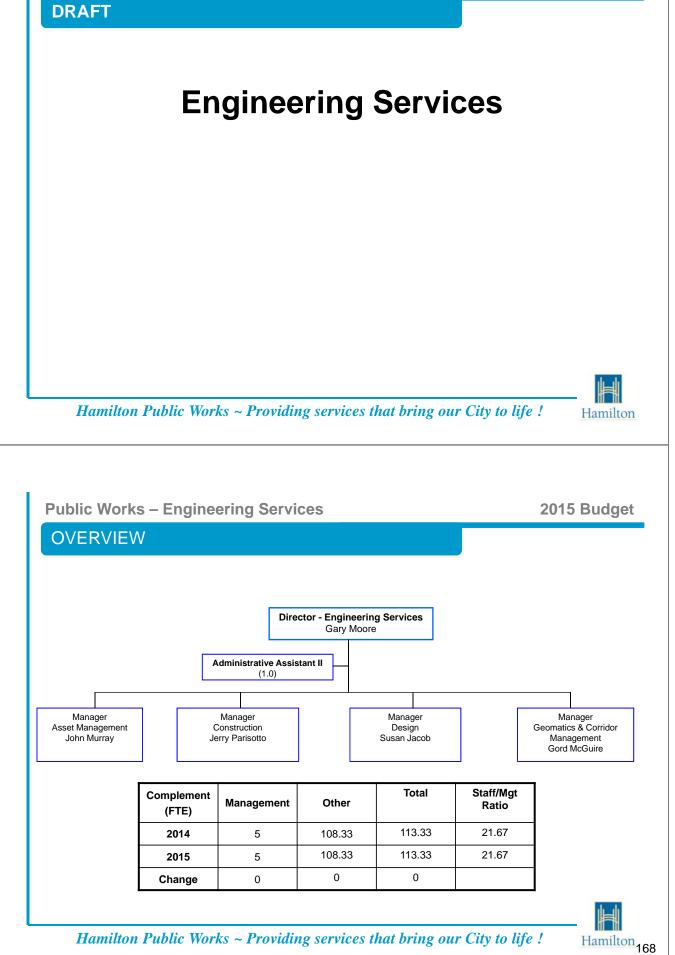
Plans and delivers maintenance of tens of thousands of traffic and parking signs, 565 traffic signals, 6,500 lane km of pavement markings. Signal staff are on call 24/7 to respond to emergency signal failures.

- New Signal Installations & Signalized Intersection Modernizations
- Install and maintain all regulatory, warning and information signage
- Install Pavement Markings & Crosswalks
- Bike lane maintenance (signage/markings)
- Special Event & Tourism Destination Signage
- Hamilton Strategic Road Safety Program
- Implement Road Safety and Traffic Calming Improvements
- Traffic Management Centre
- Red Light Camera Program
- Truck routes and report to Truck Route Sub-committee









Public Works – Engineering Services

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PROGRAM SPECIFIC INFORMATION

Asset Management – John Murray

- inventory, needs analysis, scope budget control

Design – Susan Jacob

- detailed design and tendering preparation

Construction Services – Jerry Parisotto

- contract administration and resident site inspection

Geomatics & Corridor Management – Gord McGuire

- legal and engineering surveys and plans corridor control and street lighting



2015 Budget

Public Works – Engineering Services

2014 SPECIAL PROJECTS



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ASSET MANAGEMENT

Services Provided & Key Facts

- Supports the balance of the Public Works Department through the development of strategic infrastructure programs, and the coordination of those programs, through the capital budget process
- Provides city wide condition assessment, life cycle analysis, risk assessment, prioritization of needs, and long term capital programming for Hamilton's entire right of way infrastructure networks, and assistance of the same processes for Facilities and Parks infrastructure
- City wide strategic communication of infrastructure issues through the State of the Infrastructure reports, the annual Asset Report Card, Asset Management Plans and other outlets.
- State of the Infrastructure (Sotl) Public Engagement

Accomplishments

- Finalized Asset Management Plan (AMP) for ROW assets (provincial requirement)
- State of the Infrastructure detailed update for Roads
- Implementation of new Facilities / Parks system (Ameresco)
- Initiated Bridge Heritage Master Plan Study
- Critical Water Main Inspection Program
- Sewer Main Lining Program is currently at a sustainable level of funding
- Upgraded Bridge Management Software



DESIGN

Services Provided & Key Facts

- Design provides preliminary engineering to final detailed design services for the delivery of the Capital Program projects which include bridges, culverts, road, water and wastewater infrastructure
- Responsible for the coordination of acquisition of property or easements and the coordination of utility works during the design stage of capital projects
- Preparation of tender documents
- Obtain project approvals or permits
- Develop Standards and Specifications and lead New Products Committee
- Additional delivery of area rating projects
- Undertake Municipal Act Process for extension of Sanitary/Storm and watermains

Accomplishments

- Fessenden Flood Mitigation Project (Ph3- Forestgate/Daisy/Magnolia), Lower East End Drainage projects- Kenilworth: Barton to Burlington
- Centennial Parkway: King to Barton, Queenston Rd (Water/Wastewater Master Plan)
- Continue to lead Specifications and New Products Committee
- Large valve replacement program (3 locations)
- Other key projects (West 5th/Fennell /Burlington St /Mohawk Rd /James St N /Queensdale /Broker/Hwy 6 left turn land and MTC Park and Ride/Centre Rd)
- Pearl St. Pedestrian Bridge/ Centennial Parkway Railway Bridge

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CONSTRUCTION

Services Provided & Key Facts

- The Construction Services section provides construction administration, inspection services and contract management for road, park, sewer, water, bridge and capital works construction projects throughout the City of Hamilton
- Responsible for overseeing and documenting the Contractor's performance with respect to the terms and conditions of the contract, including the quality control of materials and workmanship

Accomplishments

- Delivery of 50 projects worth 113 million dollars
- Variance report and assessment implementation



GEOMATICS & CORRIDOR MANAGEMENT

Services Provided & Key Facts

- Manage all utility permits, agreements, costing agreements and strategic directions
- Provide direction on development proposals with regards to access/egress and right of way impact
- Provide all engineering survey/legal survey services to support capital program and land acquisition
- Support all CAD and Document Management users in Public works and across the Corporation
- Deliver the Street lighting engineering design and program implementation
- Manage and issue all overweight, over dimension, road occupancy, road closure or use permits

Accomplishments

- Initiated an application to the CRTC to develop a modern access agreement with Bell Canada
- Audited and created a street light data base 44,000 records
- Published the Arc GIS On Line mapping tool for all ROW permits
- Installed over 1000 LED street lights
- Enhanced programming and fee implementation of the Road Occupancy Permit System
- Continued deployment of a Traffic Data Management system will be complete by end of 2014





Public Works – Engineering Services

2014 KEY PROJECTS

Right of Way (ROW) Reconstruction

- Centennial Parkway King to Barton / Queenston Rd
- West 5th St Mohawk College (south Access) to Gateview / Fennell Ave
- West 5th St StoneChurch to LINC / Blossom Ave
- Mohawk Rd Upper Wellington to Upper Wentworth
- Queensdale Ave Upper Wellington to Upper Wentworth
- James St N Barton to Strachan
- Park St / York / Bond
- Hess St N
- Kilbourn / Southmeadow / Elm / Pine
- Helga / Imelda / Thomson courts
- Centre Rd Carlisle to Woodend
- Forestgate / Daisy / Magnolia
- Alanson / Grant / Erie / Emerald / Blythe

Right of Way (ROW) Resurfacing

- Pan Am Cannon St, Gage Ave and streets surrounding Pan Am Stadium
- Asset Preservation Neighbourhood Resurfacing (i.e. Glenview West, Delta West, Delta East, Bartonville, Stipeley and Stoney Creek neighbourhoods)
- Burlington St MTO limit to Kenilworth Ave (westbound lower lanes)

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EXTRAORDINARY BUDGET CHANGES- Tax Expenditures

Description	Amount (\$000's)
Streetlighting Program	
Hydro	575
Increase in Locate costs	255
Realignment from Capital to Operating	464



2015 Budget

Public Works – Engineering Services

SUMMARY

Services Provided & Key Facts

Engineering Services is responsible for program development and delivery of all capital budget projects within the 3000 kilometres of right-of-way corridor within the City of Hamilton through:

Asset Management

• inventory, needs analysis, scope budget control

Design

• detailed design and tendering preparation

Construction

• contract administration and resident site inspection

Geomatics and Corridor Management

- legal and engineering surveys and plans corridor control
- street lighting

2015 Budget Request (\$000s)

Operating Budget	
Gross	22,774
Revenues	(\$15,484)
Net	7,290
\$ increase from 2014	1,294
% increase from 2014	21.6%

Cost per household 2014	\$27.44
Cost per household 2015	\$33.03
% increase from 2014	20.4%



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