ECW-M01-2025 Attachment 1

Engineering & Capital Works Department

2023-2024 Biennial Report



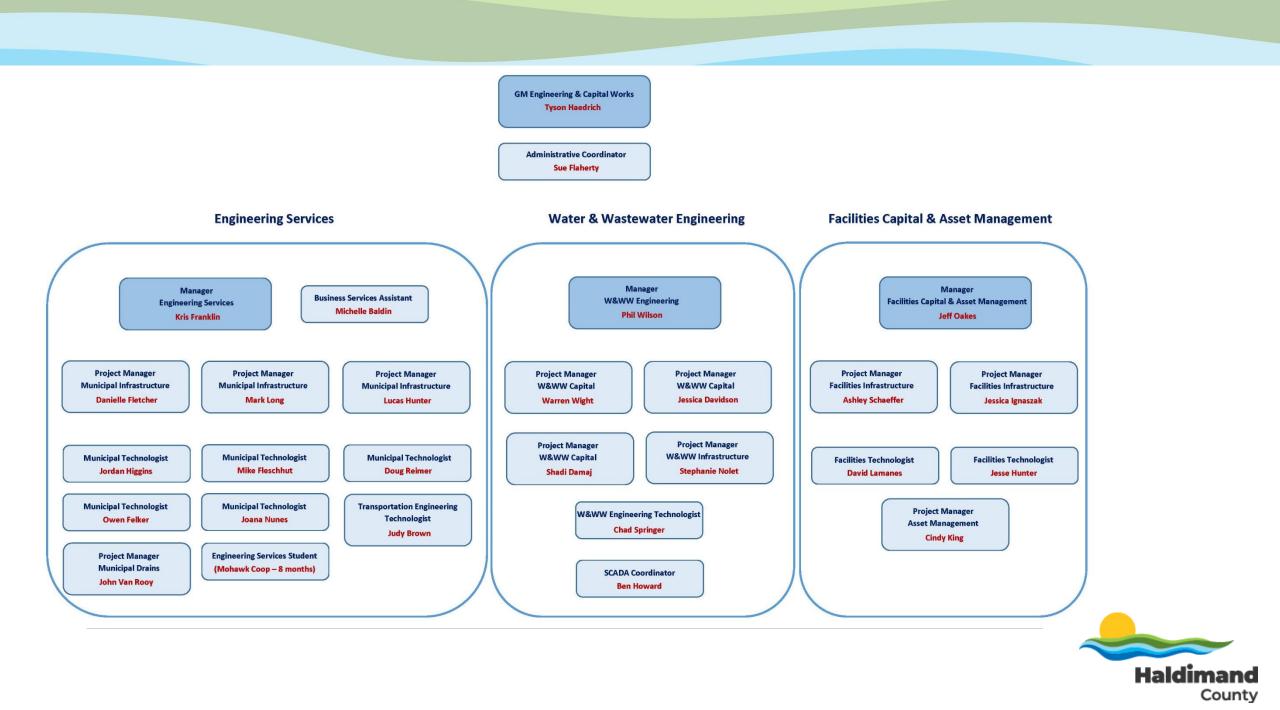
Engineering & Capital Works Department

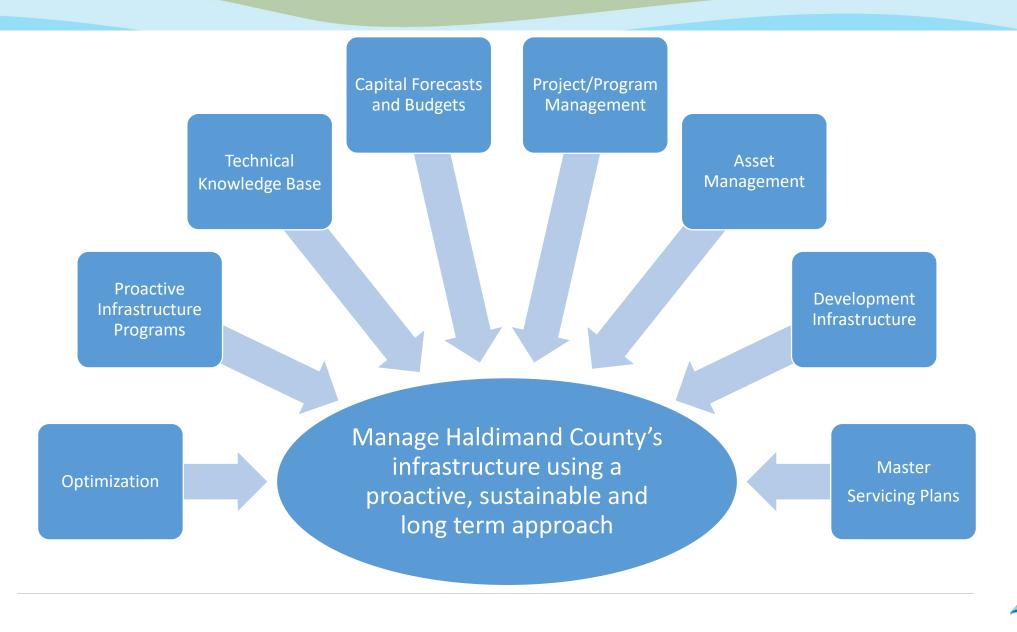
Manage the County's capital replacement and major maintenance programs to ensure long term sustainability of the County's \$3.3B in infrastructure.

Departmental Structure (28 staff total):

- Administration ECW (2 staff)
- Engineering Services ENG (13 staff)
- Water & Wastewater Engineering WWE (7 staff)
- Facilities Capital & Asset Management FCA (6 staff)



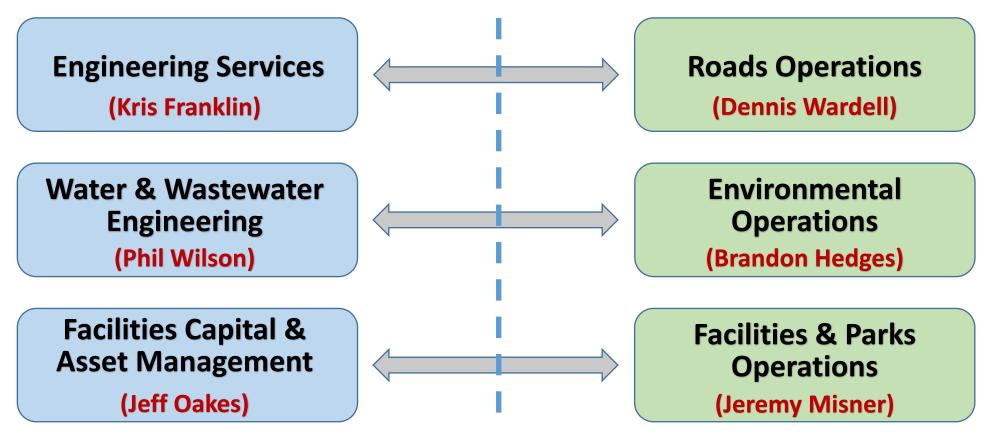






(ECW) Plan/Construct

(PWO) Operate/Maintain





Engineering Services – Responsibilities

- Road Reconstruction Program \$3M
- Hot Mix Resurfacing Program (500 km of paved rural/urban roads) \$4.1M
- Urban Paving Program (150 km of urban local roads) \$2.3M
- Surface Treatment (Tar and Chip) Program (880 km) \$4.5M
- Gravel Road Conversion Program (2025 Top Coat)
- Structures Program (267 bridges/culverts with 3+ metre span) \$4.5M
- Municipal Drains Program (84 municipal drains on ten year cycle)
- Development Related Infrastructure



Engineering Services – 2023/24 Highlights

- Completion of Granular Road Conversion Program
- Highway 3 (Jarvis) MTO Connecting Link Grant Funding Award
- Excess Soil Management Program
- Frank Marshall Business Park SWM Pond Expansion
- Stormwater Management Pond Maintenance Program
- Rogers Broadband Municipal ROW Approvals
- Cast Iron Watermain Replacements
- Ward Specific Funding Program



































Engineering Services – 2025 Priorities

- Traffic Management Strategy
- Roadside Safety Audit
- Robinson Road/Sandusk Road/Rainham Road
- Cast Iron Watermain Replacement Caledonia/Hagersville
- Highway 54 Bridge Removal
- Cayuga Kinsmen Community Centre
- Design Criteria Update (Planning)



FCA – Responsibilities

- Facilities Capital Program
 - Administration Buildings, Fire Halls, Roads Yards, Arenas, etc.
 - Community Halls
 - Grandview Lodge
 - Parks and Playgrounds
- Asbestos Management
- Condition Assessments
- Asset Management Program
- Energy Management Program



FCA – 2023/24 Highlights

- Caledonia Fire/EMS Station
- Hagersville Library and Active Living Centre
- Asset Management Plan
- Energy Conservation and Demand Management Plan
- Parks & Amenities Condition Assessments
- Fisherville Community Centre Solar Panels
- Kohler Fleet Yard Addition and Renovations
- Ten Year Capital Budget Buildout































FCA – 2025 Priorities

- Caledonia Fire/EMS Station Occupancy
- Hagersville Library and Active Living Centre Construction
- Dunnville Parks Workshop Replacement
- Dunnville Fire/EMS Station
- Asset Management Levels of Service and Financial Plan
- Climate Change Adaptation Plan
- Parks & Amenities Capital Budget Buildout



W&WW Engineering - Responsibilities

- Water Treatment Systems (2 Plants, 5 Standpipes, 3 Booster Stations)
- Wastewater Treatment Systems (4 Plants, 4 Lagoons, 22 Pumping Stations)
- SCADA Network
- Optimization Program (with Environmental Operations)
- Master Servicing Plans (with Planning)
- Liaison with Industry (with Environmental Operations)
- Regional Servicing Plans
- Technical Support to other County Divisions



W&WW Engineering – 2023/24 Highlights

- Hagersville Master Servicing Plan (Planning)
- Dunnville Water Treatment Plant Upgrades
- Norfolk/Six Nations Water Supply
- Hagersville Transmission Main Twinning Project
- Nairne Street Grand River Tunnel Crossing
- Jarvis Pumping Station Commissioning
- Nanticoke Industrial Pumping Station Upgrades (Stelco/Imperial Oil)
- Imperial Oil Raw Water Line Replacement









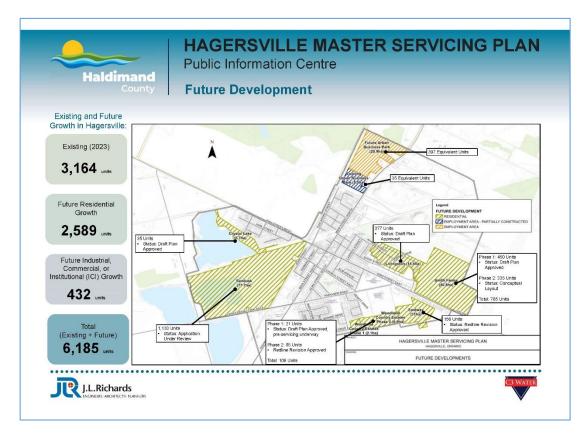


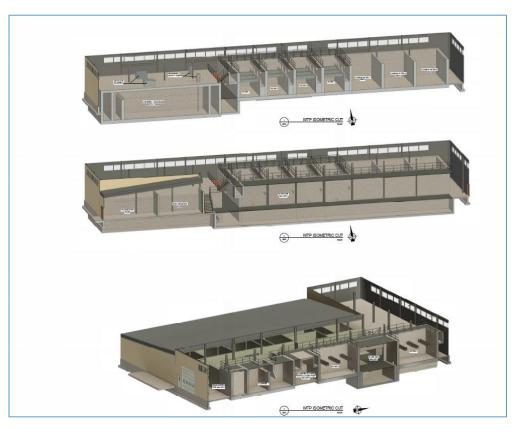














W&WW Engineering – 2025 Priorities

- Norfolk Water Supply Agreement
- Nanticoke Water Treatment Plant Design
- Caledonia Wastewater Treatment Plant Design
- Cayuga/Dunnville Master Servicing Plans (Planning)
- Caledonia Master Servicing Plan (Planning)
- Caledonia North Reservoir Expansion
- OCWA/Veolia Capital Program
- Hagersville Transmission Main Twinning Project



Engineering & Capital Works – 2025 Themes

- Staff Retention
- Staff Development and Mentorship
- Succession Planning
- Strategic/Sustainable Infrastructure Planning
- Contract Pricing
- Competitive Grant Funding Applications
- Communication/Consultation



Thank You

