

Department business plan update

Transportation Planning and Engineering

Department Mission Statement



To work cooperatively with community stakeholders to effectively plan, design and manage the construction of safe sustainable infrastructure that complies with Engineering and Construction best practices.

Department overview

Our transportation system is essential to safe, sustainable growth and quality of life. It gets us to and from work and school; allows a quick response time from emergency services and RCMP; and allows delivery of goods and services to our homes and businesses.

Continuous review and assessment of traffic volume patterns, monitoring and reacting to impacts from regional growth and development on the transportation network, coordinated review of provincial and regional transportation matters, as well as consistent application of traffic safety best practices, are some of the responsibilities of our team.

Transportation Planning and Engineering is committed to plan, design and construct Strathcona County's transportation infrastructure for safe and sustainable growth, while working collaboratively with all stakeholders.

COVID Impacts

- Staff impacts
 - although 75% of our staff have been consistently working from home, we continue to meet deadlines, tender construction projects, undertake topographical surveys, conduct site inspections, work with residents to address concerns. Coordination with IT to allow working from home.
- Service impacts
 - approximately 75% of staff working from home
 - TPE has undergone a major transitional change of our file system to SharePoint during this pandemic
 - staff have embraced the digital culture, and staff are as effective and efficient as ever
 - Adaptation to consultation processes
- Financial impacts
 - minor increase in mileage expenses
 - decrease in professional development expenses

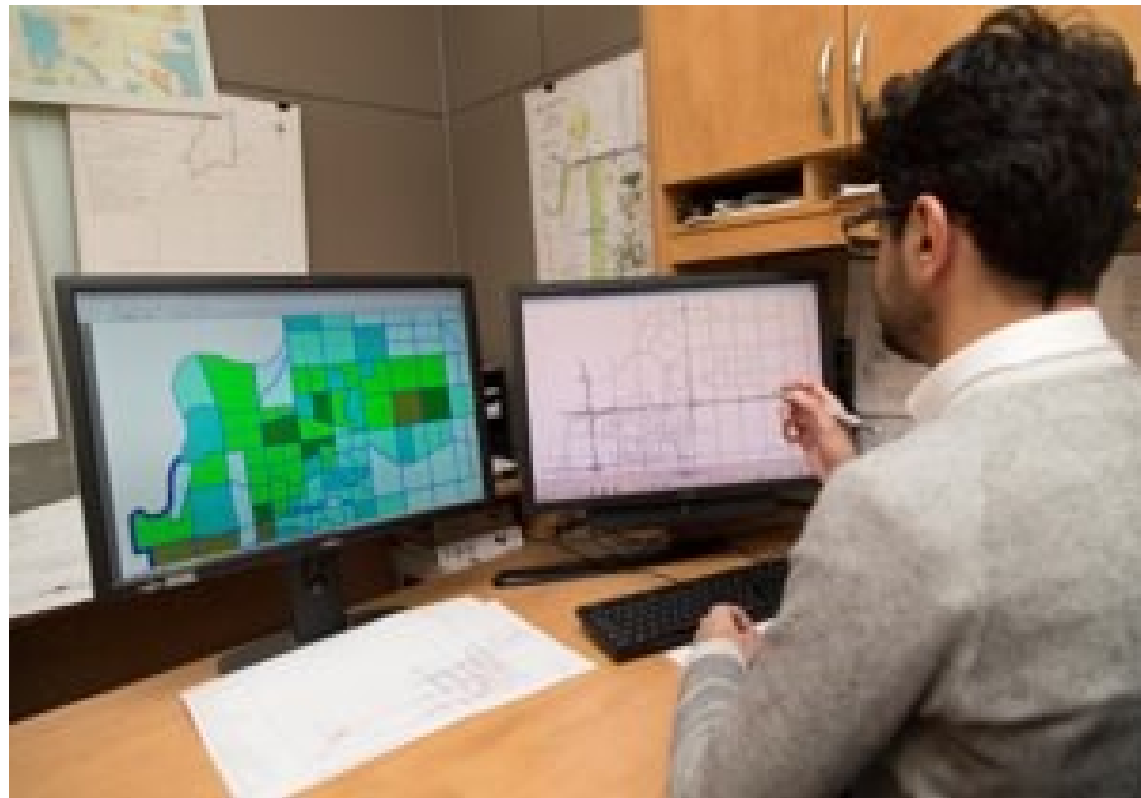
Core business functions

- Planning, Engineering and Safety
- Engineering Services and Programming
- Project Construction and Engineering

Progress on core function forecast

Planning, Engineering and Safety

- transportation planning
- transportation modeling
- traffic engineering
- traffic safety education and outreach



Progress cont'd

We said we would:

- complete the 2019 train whistle cessation project
- initiate the Southwest Strathcona County Functional Planning Study
- implement traffic safety improvements
- initiate the Integrated Transportation Master Plan Update



Progress on core function forecast

Engineering Services and Programming

Engineering Services and Programming supports TPE, IPS Division and other departments through 3 diverse & dynamic groups.

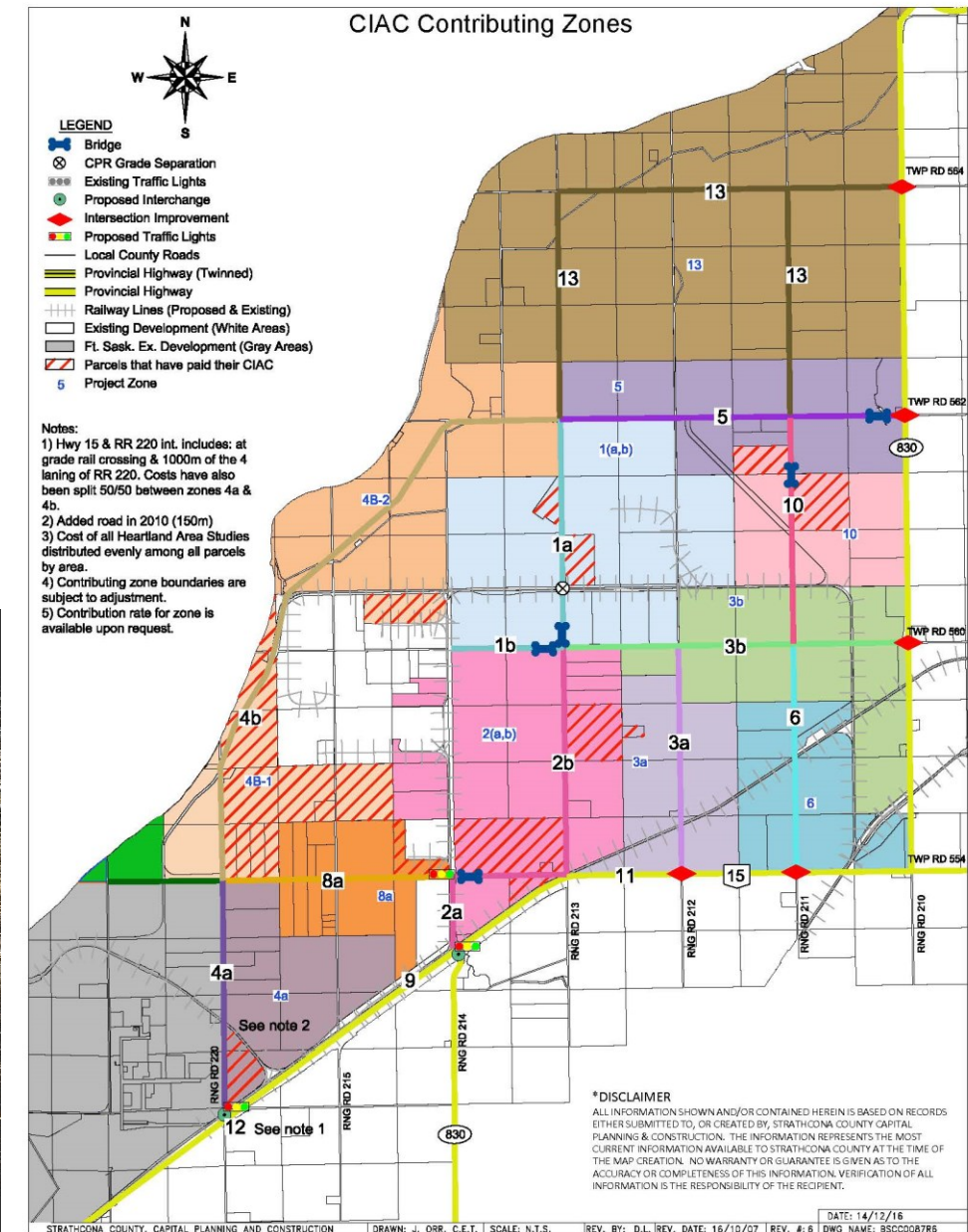
- Transportation Capital programming
- Survey Services
- Design Services



Progress cont'd

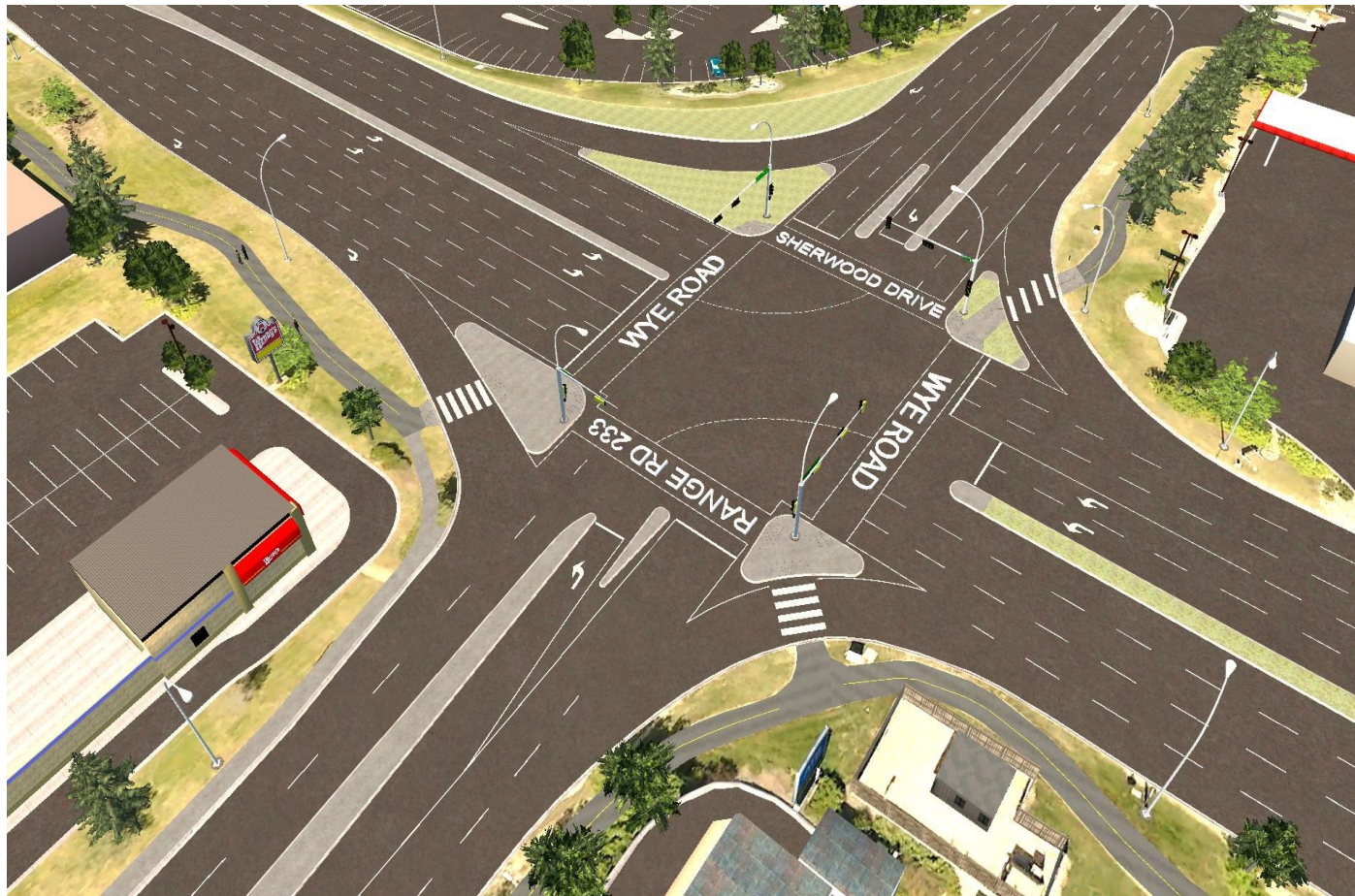
We said we would:

- deliver Capital budgeting & programming, transportation/facility design, and survey services
- collaborate on updates to the Levy model and CIAC funding model
- develop pavement marking guidelines



Progress cont'd

- provide Sherwood Drive Functional Improvements design management
- update and maintain the County's Design & Construction Standards
- provide on-going support of AutoCad to County departments



DESIGN AND CONSTRUCTION STANDARDS

October 2019



STRATHCONA
COUNTY

STRATHCONA
COUNTY

Progress on core function forecast

Project Construction and Engineering

- Capital Road Construction Project Management
- Outdoor Open Space Construction Management



Progress cont'd

We said we would:

- complete projects within the Capital program including roadways, trails, parks, and sidewalks
- continue to focus on enhancing project management practices including quality assurance and quality control procedures and documents



2020 Photo – RPC Ardrossan Parking Lot

Success and Challenges

Successes

- Two new traffic signals and two upgraded signals in 2020
- State-of-the-art traffic monitoring - Bluetooth sniffers
- 2019 project milestones completed
- 2020 project procurement is nearly complete



Success and Challenges

Challenges

- COVID-19
- coordination with traffic, adjacent residents, businesses, stakeholders and developers throughout the project duration
- coordination of complex issues to complete the project on-time and on-budget
- Traffic Safety Advisory Committee has added resource demand
- delivering a wide variety of projects on-time and on-budget, while mitigating complex issues
- uncertainty of regional and local economy with regards to development, growth and capital budgets and programs

Facts and Figures

Geomatics (Surveys)

Completed 140 survey requests from various departments:

RPC – 67

FAC – 12

PDS – 13

TAS – 17

TPE – 24

Cool scans that have been completed for Strathcona County: Center in the Park Annex; Museum Interior and Roof; RPC Admin Building; Strathcona Olympiette Centre

Project management

Delivered project management on projects such as trails, landscaping, and gather spaces.

Cool projects managed for other County departments: Ardrossan Spray Park, Trans Canada Trail, and Outdoor Pickleball Courts

Facts and Figures

Traffic safety facts

Each year nearly 2/3 of all collisions occur at an intersection in Strathcona County. Almost every pedestrian and cyclist collision involved a turning vehicle in Strathcona County

Cool stat: The number of serious injury and T-bone collisions decreased by approximately 1/3 at intersections where Intersection Safety Devices are used.

Engineering designs

Completed 18 designs for the 2020 construction season including designs for traffic calming, intersection improvement, Missing Links trails, multi-use courts.

Employee engagement

Engagement survey theme	Engagement initiative	People Plan focus area
Recognition and rewards	Commit to recognizing each other's contributions to ensure people feel valued, inspired and part of the team	Team
Staff and resources	Provide staff with the tools they need to do their work and encourage staff to apply their skills in their job	Accountability, leadership
Communication, staff and resources	Increase opportunities for collaboration between departments	Clear purpose, accountability

Initiatives

- Wye road widening, Estate Drive to Clover Bar Road
- Wye Road Upgrade - Sherwood Drive from Ash Street to Village Drive
- Annual sidewalk missing links program
- Annual traffic and pedestrian safety improvements



Wye Road Widening, Estate Drive to Clover Bar Road - Status

Overall initiative status



Initiative status	Current status	Previous status
Time	G	G
Scope	G	G
Budget	G	G

Alignment to strategic goals

- Goal 2: Manage, invest and plan for sustainable municipal infrastructure
- Result: Efficient and effective multi-modal transportation network
- Goal 6: Provide facilities and services that are available and accessible to residents
- Result: Connected, accessible multi-modal transportation network, including trails

Key deliverables

- Construction of Wye Road widening from Estate Dr to Clover Bar Rd, including widening to 6 through lanes, auxiliary lanes, and new signals at Nottingham Way/Hillshire Blvd, and completing a paved trail connecting east to Clover Bar Road.
- Includes construction of site-specific access lanes for the Hillshire development
- Construction Completion anticipated as early as fall 2020 pending weather and other unforeseen items.
- Final Acceptance

Opportunities/Challenges

- Temporary traffic control will reduce traffic to one lane in each direction for the majority of the project duration.
- Coordination is required with the Hillshire developer for site specific accesses
- Construction may be delayed due to inclement weather or unforeseen issues.
- This phase of construction will complete a series of projects that will have widened Wye Road from Sherwood Drive to Clover Bar Road.

Risks

- Project involved traffic lane reductions, resulting in public perception of delay
- Construction may be delayed by inclement weather or unforeseen construction issues

Mitigation

- Communication plan covered the project scope and timeline so public can be informed. Public inquiries will be handled proactively.
- Project team will mitigate concerns proactively through the project and provide schedule updates as required throughout the project.

Wye Road Upgrade - Sherwood Drive from Ash Street to Village Drive - Status

Overall initiative status



Initiative status	Current status	Previous status
Time	G	G
Scope	G	G
Budget	G	G

Alignment to strategic goals
<ul style="list-style-type: none">• Goal 2: Manage, invest and plan for sustainable municipal infrastructure• Result: Efficient and effective multi-modal transportation network• Goal 8: Foster and environment for safe communities• Result: Transportation network, including trails, allows people and goods to move safely and efficiently

Key deliverables
<ul style="list-style-type: none">• Construction of approved Design – Improvements on Sherwood Drive/ Range Road 233 from Ash Street to Village Drive, including adjusting lanes and concrete islands, and Traffic Signals changes.• Construction completion• Final Acceptance Certificate

Opportunities/Challenges
<ul style="list-style-type: none">• Design followed recommendations from Wye Road Functional Planning Study which was based on extensive public engagement, however involves removal of signals and reduction of access at certain locations.

Risks	Mitigation
Delayed product deliver (i.e. traffic signals)	Order materials in advance; maintain contact with alternate suppliers
Adverse weather conditions stop/slow construction	Bad weather days built into the schedule; crews can work weekends if necessary
Design/land/utilities project delayed/incomplete	Construction schedule pushed back until all major tasks of design/land/utilities project are complete

Annual sidewalk missing links program - Status

Overall initiative status



Initiative status	Current status	Previous status
Time	G	G
Scope	G	G
Budget	G	G

Alignment to strategic goals
<ul style="list-style-type: none"> Goal 9: Continuously improving the way we work, as one organization, in an agile and sustainable manner Result: Supports infrastructure management Result: Supports insight-driven/evidence-based decision making

Key deliverables
<ul style="list-style-type: none"> Providing pedestrian connectivity in existing business and industrial areas through the design and construction of concrete sidewalks 2020 scope of work includes sections on Broadway/Broadview as well as filling some connectivity gaps near recreation facilities. Planning and design work continue to feed into future years construction programs. Construction completion Final Acceptance Certificate

Opportunities/Challenges
<ul style="list-style-type: none"> Communication and coordination with adjacent businesses during construction including minor landscaping impacts in the boulevard Coordinate with Transit during impacts to bus stops Providing enhanced connectivity for pedestrians and transit users

Risks	Mitigation
Ensure coordination with adjacent businesses is effective during construction phase.	Construction notices will be handed out prior to start of construction, with Project Manager and 24 hour Contractor emergency contact information.
Ensure coordination with Transit and other internal stakeholders	Design drawings are circulated prior to construction. Impacted bus stops will be further coordinated during construction.

Annual traffic and pedestrian safety improvements- Status

Overall initiative status



Initiative status	Current status	Previous status
Time	G	G
Scope	G	G
Budget	G	G

Alignment to strategic goals
<ul style="list-style-type: none"> Goal 2: Manage, invest and plan for sustainable municipal infrastructure Result: Safe and efficient transportation network Goal 8: Foster an environment for safe communities Result: Transportation Network, including trails, allows people and goods to move safely and efficiently

Key deliverables
<ul style="list-style-type: none"> Improved traffic safety including pedestrian crossing upgrades Reduced vehicle speeds and improved driver behaviour Improved public perception and quality of life Neighbourhood beautification and sense of place

Opportunities/Challenges
<ul style="list-style-type: none"> The Neighbourhood Traffic Safety Action plan through the Traffic Safety Strategic Plan informs traffic safety initiatives according current design and construction standards The Traffic Calming policy provides guidance for public engagement and support for more complex neighbourhood traffic safety and management studies and projects Ongoing evaluation and education support current and future initiatives

Risks	Mitigation
Detailed design may identify unforeseen costs	Construction cost estimates are conservative and include construction contingency
Construction finds unknown underground design limitation	Construction has the potential for unknown underground conditions, budget contingency will address unforeseen additional costs
Weather impacts could extend construction delivery time	Weather is managed through effective project management methodologies

Questions?

