

APPENDIX B

Red Hill Business Park to Highway 6 South Conceptual Link

Draft Scope of Work

A high-level preliminary scope of work of the project has been identified to undertake the design study. The study will be undertaken consistent with Environmental Assessment guidelines, as amended 2007, 2011, 2015, 2023 to satisfy Phases 1 through 4 requirements identified through this process. The scope of work within the terms of reference will address the following:

Phase 1 (Problem and Opportunity) and Phase 2 (Alternative Solutions):

Planning Phase Scope

- Review policies and previous studies to identify existing conditions and sensitive areas including a review and documentation of socio-economic data to consider in identifying and evaluating route alignment and design alternatives
- Identify long-list of route alternatives
- Confirm needs and justification of previous initiatives to establish a clear problem / opportunity statement
- Identify and evaluate impacts relating to planning alternatives
- Selective Preferred Route alternative

- Transportation Assessment
 - Existing conditions and Future Conditions
 - Network connectivity and intersection control
 - Baseline noise and vibration assessment
 - Road safety assessment
 - Condition assessment of roadways
 - Identification of long list of alternatives and alignments using new and existing right-of-way corridors or combination thereof
 - Selection of preferred alignment

- Design
 - Including complete streets typologies
 - Lighting requirements
 - Infrastructure upgrades
 - Design alternatives will be developed and evaluated based on the preferred alignment

- Natural Heritage Inventory
 - Desktop review including environmental inventories, databases and studies completed by agencies and stakeholders
 - Constraints mapping
 - Identify scope for future study

- Cultural and Built Heritage Inventory
 - Desktop review of cultural sites, structures and landscapes inventories, databases and studies completed by agencies and stakeholders
 - Mapping of cultural resources
 - Identify scope for future study
- Stormwater and Climate Change Impacts
 - Stormwater management strategy, identification of watercourses and drainage boundaries to identify issues and future detail scope of work
 - Mitigation / Adaption opportunities
- Public Engagement
 - Indigenous engagement
 - Businesses
 - Local residents
- Documentation
 - All supportive mapping
 - Public consultation report
 - Final report documenting study findings
- Provision Item
 - Available to support any Part II orders

Phase 3 (Alternative Design Concepts for the Preferred Solution) and Phase 4 (Environmental Study Report):

Design Phase Scope

- Based on the preferred planning route alternative
- Identify and evaluate impacts of design alternatives
- Noise and vibration assessment of
- Property impacts
- Identify and evaluate impacts relating to design alternatives
- Selective Preferred Design alternative
- Natural Heritage Inventory / Impact Assessment
 - Conduct field studies
 - Undertake tree inventories
 - Phase 1 Environmental Site Assessment
- Cultural and Built Heritage Inventory / Impact Assessment
 - Undertake Stage 1 Archaeological Assessment and Stage 2 (if applicable)
 - Detailed mapping and documentation

- **Property Impacts**
 - Property acquisitions (if applicable)
 - Well and septic bed inventory: Properties within the study area that have wells and/or septic beds should be identified and the exact location of the well on the property should be confirmed
 - Confirm required ROW widths based on the preferred solution and design alternative. The ROW width should also accommodate storm conveyance and LID for the preferred design alternative
- **Stormwater and Climate Change Impacts**
 - A comprehensive stormwater management plan and identify hydrology, drainage and stormwater management requirements through the completion of a Stormwater Management Assessment including:
 - stream classifications, drainage boundary for each tributary, flood line and the road location
 - Hydraulic analysis with a level of detail enough for functional design
 - A geotechnical investigation through completion of a Phase 1 Environmental Site Assessment
 - Mitigation / Adaption opportunities
- **Design**
 - Including complete streets typologies and Vision Zero principles
 - Lighting requirements
 - Infrastructure upgrades
 - Design alternatives will be developed and evaluated based on the preferred alignment
- **Public Engagement**
 - Indigenous engagement
 - Public agencies and stakeholders
 - Businesses
 - Local residents
- **Implementation Strategy**
 - Cost estimate of works associated with the preferred alternative
 - Permits and approvals required for implementation
 - Phasing and prioritization of improvements
 - Funding strategy
- **Documentation**
 - 30% preliminary design drawings
 - Public Consultation Report
 - Final Environmental Study Report documenting findings
- **Provision Item**
 - Available to support any Part II orders