

# Infrastructure Master Plan



**Infrastructure  
Master Plan**

# INFORMATION SESSION HOUSEKEEPING

The purpose of this session:

- Overview of the project
- Core Infrastructure breakdown
- Opportunities for input

*Township staff will be monitoring:*

- [@InfrastructureMasterPlan @loyalist.ca](https://twitter.com/InfrastructureMasterPlan)
- *Zoom Chat Box*
- *Social Media (Facebook, Twitter)*



# AGENDA

- Project Scope
  - Municipal Class Environmental Assessment
- What is a Master Plan?
- Preliminary Workplan
  - Amherstview West
- Timeline & Milestones
- Contact

# PROJECT SCOPE



## What's included?

*Core Infrastructure:*

**Water**

**Sanitary**

**Storm**

**Transportation**



## What's not included?

*Parks and sports fields*

*Township facilities*

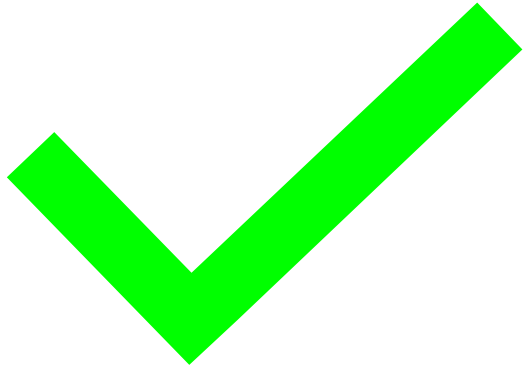
*Buildings/sites covered  
by the Planning Act*

*Rural Roads  
improvements and  
drainage*

*Transit*

*Waste management*

# EXAMPLES OF WHAT'S INCLUDED IN THE IMP



- Traffic calming needs
- Neighbourhood drainage and remedial water quality concerns
- Extension of sidewalk system and active transportation (trails, bike paths)
- Need for more streetlights
- Intersection improvements is limited to improvements required by growth, and identified safety issues
- Remedial issues
- Detailed review of potable water and wastewater needs

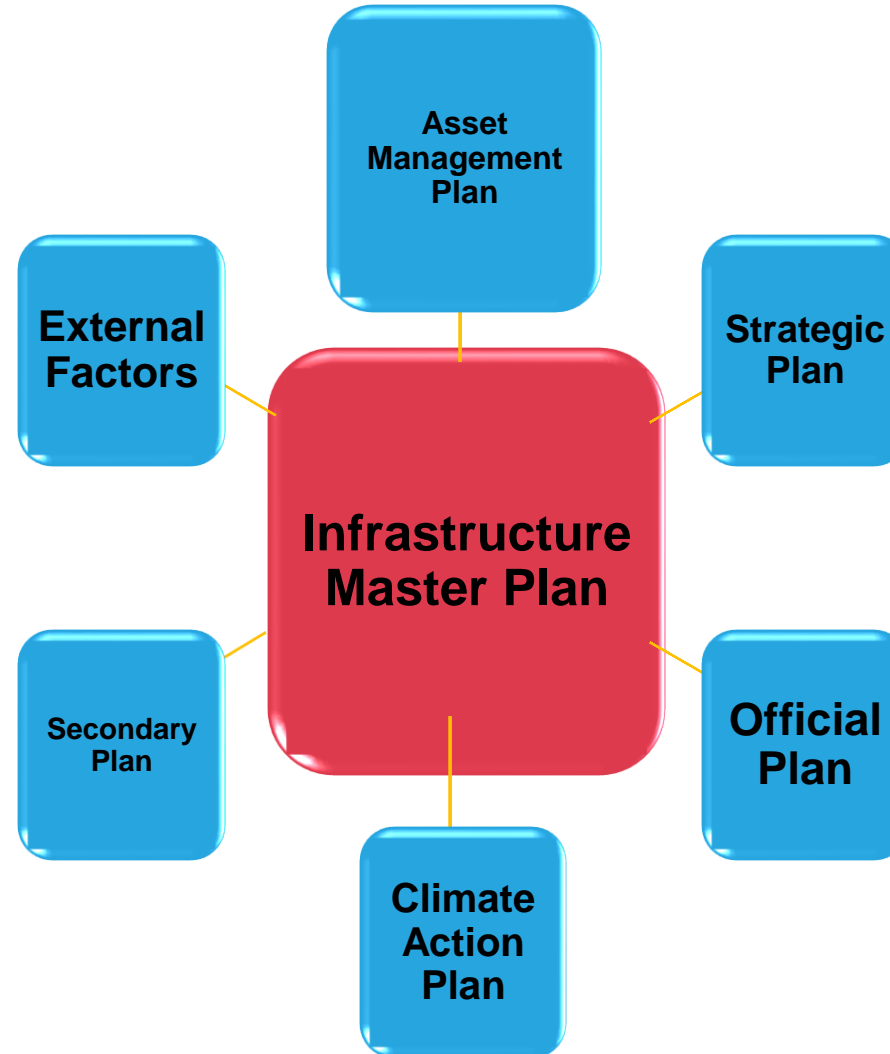
# EXAMPLES OF WHAT IS NOT INCLUDED IN THE IMP

- Township facilities and recreation
- Rural road drainage
- Public transit
- Waste management
- Resurfacing roads
- Life cycle watermain and sewer replacements
- Individual home drainage problems



# PROJECT SCOPE

Asset renewal projects will not normally be included in the Infrastructure Master Plan



# Municipal Class Environmental Assessment



Environmental Assessment Act

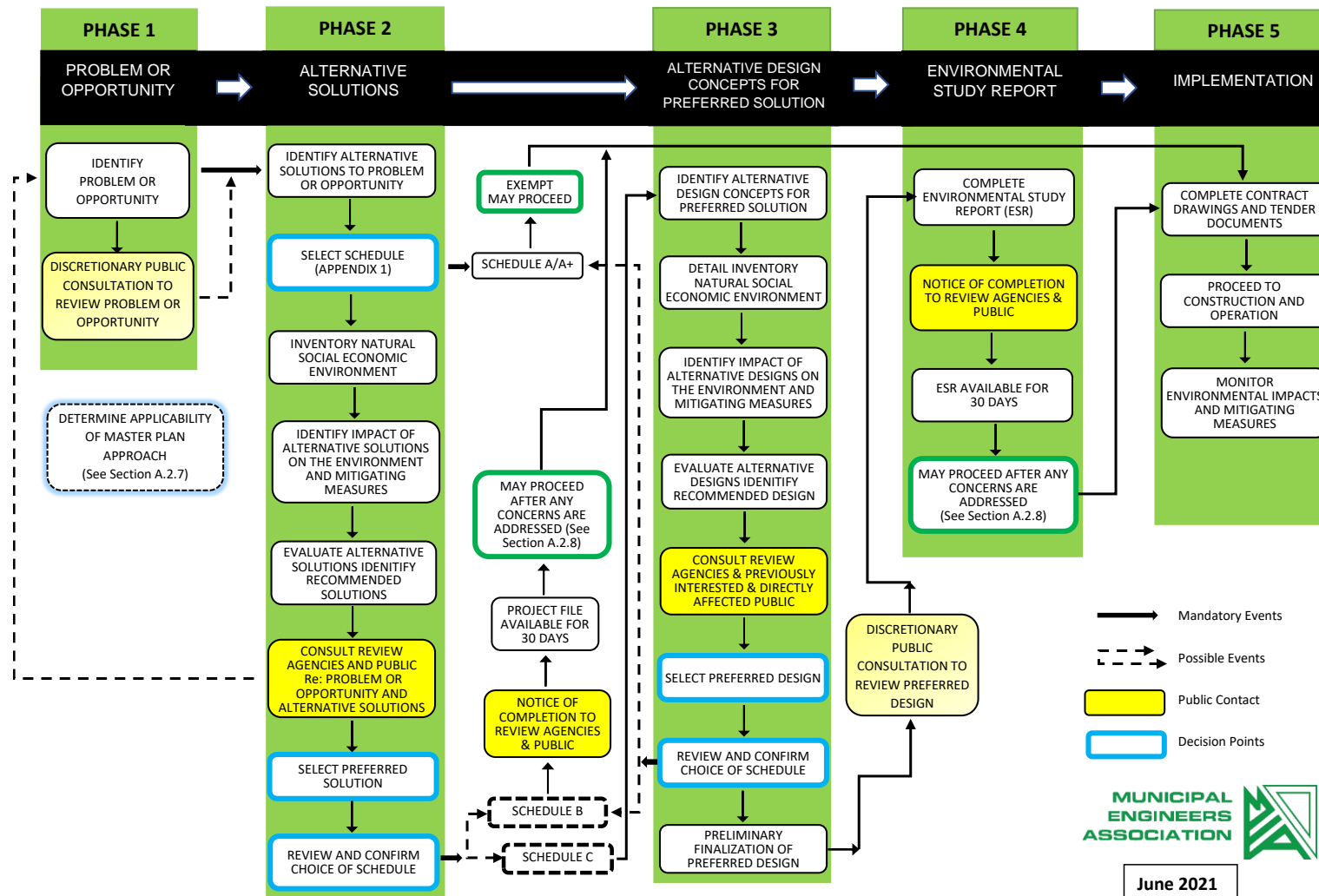


Municipal Class EA explained



# EA Planning Steps Chart

The Master Plan includes phases 1 and 2 of this process, at a minimum.



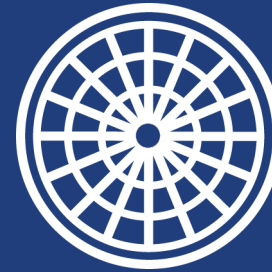
# WHAT IS LOYALIST'S MASTER PLAN?



**WATER**



**STORMWATER  
(DRAINAGE)**



**SANITARY**



**TRANSPORTATION**

# THE IMP IS DRIVEN BY FIVE THEMES



GROWTH



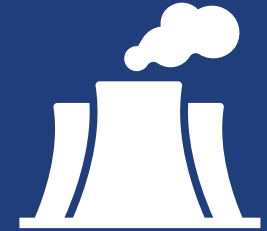
REMEDIAL



REGULATORY



TECHNOLOGY



CLIMATE CHANGE

# GOALS OF IMP & IMP PROCESS



PROJECT LIST



PROJECT TIMING



PROJECT COSTS



PROJECT FUNDING

# TOWNSHIP GROWTH STUDY RESULTS

| 2016 Census |       | 2046 Estimates |              |       |
|-------------|-------|----------------|--------------|-------|
|             | 2016  | Low            | Reference    | High  |
| Population  | 17390 | 18320          | <b>22600</b> | 23280 |
| Households  | 6430  | 7240           | <b>9730</b>  | 10360 |
| Employment  | 4710  | 4960           | <b>6140</b>  | 6330  |

Source : Hemson Consulting Report September 2018



# WORK COMPLETED TO DATE



DEVELOP MANAGEMENT  
TEAM



DEVELOP DRAFT SCOPE  
DOCUMENT



MECP MASTERPLAN PRE-  
CONSULTATION



DEVELOPMENT OF AN  
INITIAL LIST OF PROJECTS

# CHECK IN POINT



Raise your hand



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# REVIEWING MASTER PLAN TASKS



**ENVIRONMENTAL  
ASSESSMENT**



**WATER**



**STORMWATER  
(DRAINAGE)**



**SANITARY**



**TRANSPORTATION**



**MISCELLANEOUS**



# ENVIRONMENTAL ASSESSMENT TASKS



# ENVIRONMENTAL ASSESSMENT TASKS

- Notice of Commencement
- Broad public and agency engagement
- Technical review
- Inventory of environment
  - Natural, social, and economic
  - Including climate change factors
- Identify impacts
  - Mitigation measures
- Draft report
- Notice of Completion
  - Public review and comment
- Final report



# PUBLIC & AGENCY ENGAGEMENT



Photo Credit – Jack Tome

## **We Want to Hear From You!**

Engagement process developed to encourage interaction with:

- Indigenous community
- Residents and businesses
- Local property developers and home builders
- Community and government agencies

# DISCUSSION: ENVIRONMENTAL ASSESSMENT TASKS



Raise your hand



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# WATER TASKS



# WATER TASKS

- Look at factors affecting long term capacity needs:
  - Growth
  - Changing demographics
  - Variable consumption
    - Over time and by system
  - System-wide considerations, including water loss rate



# WATER TASKS



- Evaluate future community pipe and storage component needs
- Identify any system constraints or weaknesses
- Review appropriate use of pressure zones in the Bath system
- Review technological, regulatory and climate change impacts
- Determine most appropriate trunk watermain connections to future development lands

# PRELIMINARY WATER PROJECTS UNDER CONSIDERATION

- Potential expansion of treatment capacity at Bath Water Treatment Plant and Fairfield (Amherstview and Odessa) Water Treatment Plant
- Confirmation of storage needs – expansion location(s) to be determined
- New pressure reducing station – Bath, change in pressure zones – Bath community
- Trunk watermain connections to future development lands



# DISCUSSION: WATER TASKS



Raise your hand



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# SANITARY TASKS



# SANITARY TASKS

- Look at factors affecting long-term capacity needs:
  - Growth
  - Changing demographics
  - Variable consumption
    - Over time and by system
  - System wide considerations, including inflow and infiltration rates



# SANITARY TASKS



- Evaluate future community pipe and pumping station component needs
- Identify any system constraints or weaknesses
- Review technological, regulatory and climate change impacts
- Evaluation of how best to service the future development lands

# PRELIMINARY SANITARY PROJECTS UNDER CONSIDERATION

- Expansion of treatment capacity at the Amherstview Water Pollution Control Plant
- Determine rehabilitation or expansion needs at Bath Wastewater Treatment Plant
- Conveyance of sewage from south end of Amherstview West Secondary Plan area
- Trunk sewer servicing of the Amherstview West Secondary Plan area
- Potential capacity upgrades at Lakeview Sewage Pumping Station Amherstview

# DISCUSSION: SANITARY TASKS



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# TRANSPORTATION TASKS

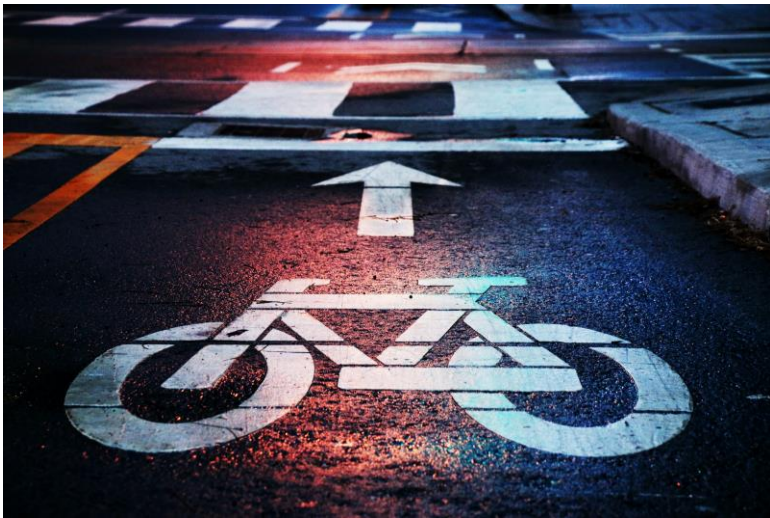
# TRANSPORTATION TASKS

- Review of sidewalk connectivity throughout urban neighbourhood
- Measuring the desire for more active transportation opportunities within Loyalist, i.e. multi – use trails, bike lanes, rural and urban routes and inter community connectivity
- Gauge the desire for traffic calming and intersection upgrades
- Review of roads and intersections which will reach capacity within duration of study.





# TRANSPORTATION TASKS



- Technological changes
- Growth
- Lennox and Addington County –Transportation
- Regulatory
- Review impact of end loading docks on Amherst Island Roads
- Equipment storage and maintenance housing
- Climate change impacts

# PRELIMINARY TRANSPORTATION PROJECTS UNDER CONSIDERATION

## Road Improvements:

- Urbanization – Main St., Bath – Fairfield, to eastern limit Village of Bath
- Bridge St., Cross St., Battery St., South St.; and west St. Odessa
- Emma St., Odessa
- Front Road – Stella
- Main St. Odessa
- Potter Drive – new development north to Main St.
- Amherst Drive – Speers Blvd. to County Road 6

## Roads Maintenance Facility:

- Expansion of County Road 6 Maintenance and Winter Sand/Salt Storage Facility
- New Snow Dump/Storage Facility

## Intersection Improvements:

- Windemere Blvd. @ Main St. Bath
- Speers Blvd. @ Amherst Drive

# DISCUSSION: TRANSPORTATION TASKS



Raise your hand



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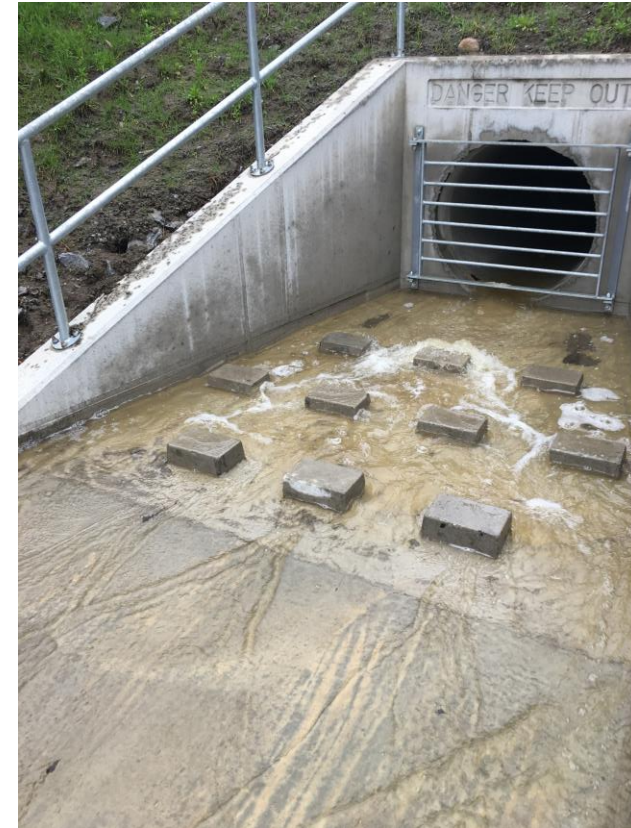
# STORMWATER (DRAINAGE) TASKS



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*Storm drainage standards were historically not uniform throughout Township. Combined with regulatory change stormwater needs provides a unique challenge to the Township.*

- Review growth demands
- Identify remedial needs for stormwater
- Assess stormwater management systems for climate change impact





# STORMWATER (DRAINAGE) TASKS



- Source water protection
- Low impact development
- Retrofitting to meet current environmental standards as well as potential regulatory changes

# PRELIMINARY STORMWATER (DRAINAGE) PROJECTS UNDER CONSIDERATION

- Amherstview West Secondary Plan – determine outlets for drainage and requirements for adjacent County Road 6 corridor
- Urban Stormwater Management Facilities – review systems for resiliency regarding climate change
- Parkside Stormwater Facility – review outlet
- Creighton Drive/South St./Potter Drive in Odessa – remedial drainage improvements
- Main St. Bath urbanization

# DISCUSSION: STORMWATER (DRAINAGE) TASKS



Raise your hand

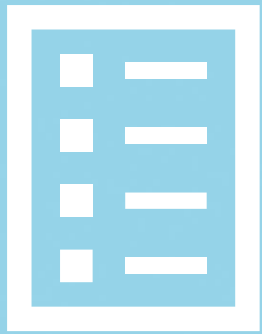


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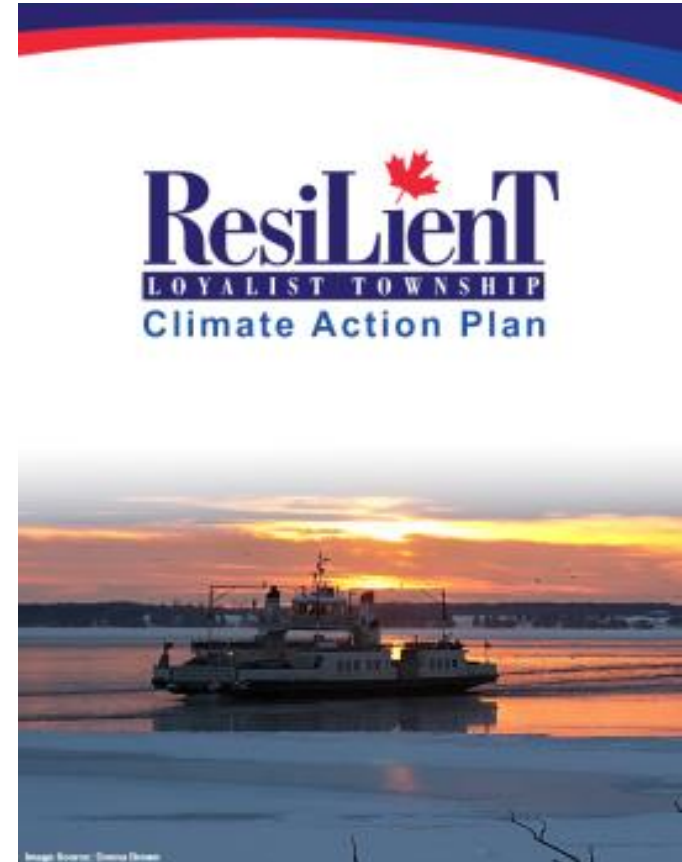


# MISCELLANEOUS TASKS

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The initial list of projects considered under Miscellaneous Tasks includes tasks that may arise through the review of:

- Official Plans
- Infrastructure Planning and Budget Documentation
- Analysis of Future Growth Projections Study
- ResiLienT Loyalist Township Climate Action Plan
- Recreation Master Plan
- Asset Management Plan



# MISCELLANEOUS TASKS

- Provincial On-Site and Excess Soil Management Regulation
- Promote natural asset recognition in Loyalist Township
- Review the feasibility of providing servicing to heavy industrial zoned lands – Taylor Kidd Industrial Park
- Snow Storage and disposal



# DISCUSSION: MISCELLANEOUS TASKS



Raise your hand



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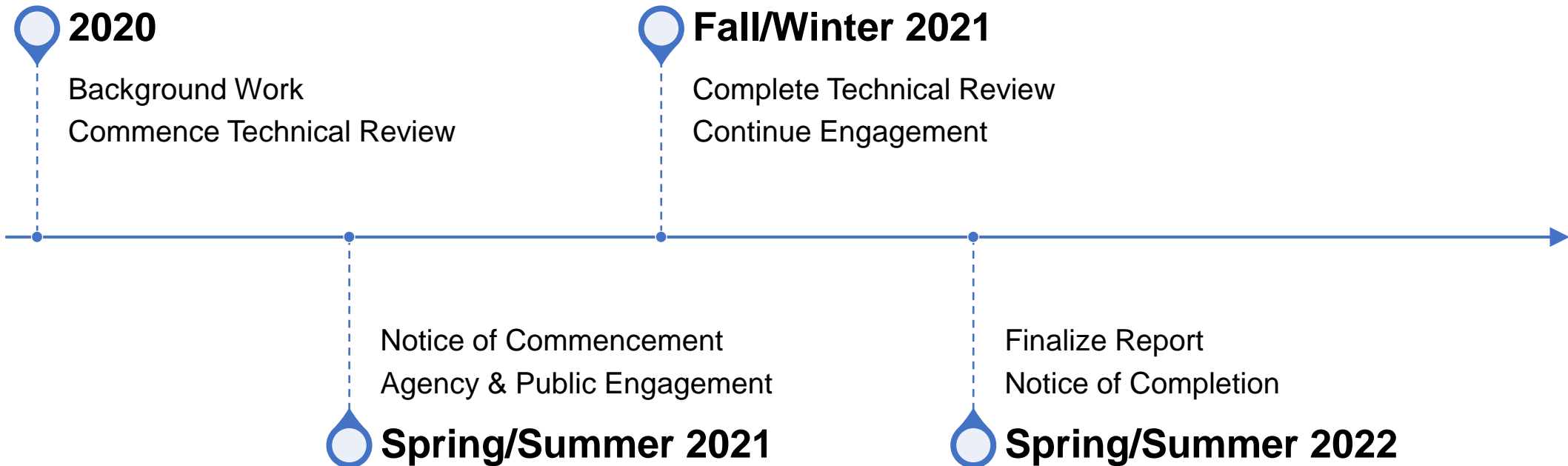


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# LINK TO SECONDARY PLAN AREA



# TIMELINE & MILESTONES



# FINAL THOUGHTS



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# STAY INVOLVED



Sign up for Infrastructure Master Plan Email List



Provide Comments & Engage with the Project Team



Watch for Participation Opportunities (Surveys and Meetings)



# THANK YOU



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Master Plan**

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