



# Mill Creek Substation Transmission Lines

Open House for "Option B"

# Introductions



- **City of Columbia**
  - Ryan Williams, P.E., Assistant Director, Water & Light
  - David Storvick, P.E., Engineering Manager, Water & Light
  - Adam Schuttler, Transmission & Planning Engineer, Water & Light
  - Connie Kacprowicz, Utility Services Specialist, Water & Light
  - Rachel Carter and James Rowden, Water & Light Staff
- **Sega, Inc.**
  - John Clayton, P.E., Power Delivery Manager
  - Steve Rodick, P.E., Transmission Line Consultant

# Housekeeping Items



- This is an Interested Parties meeting not a Public Hearing
  - Required by Chapter 22 of the City’s Code of Ordinances
  - Opportunity for Water and Light Staff to share information about this project and to receive comments and suggestions.
- Official comments will be documented by one of the following:
  - Comment card
  - E-mail: [wmail@GoColumbiaMo.com](mailto:wmail@GoColumbiaMo.com)
  - Written Letters: Columbia Water & Light, transmission line project, PO Box 6015, Columbia, MO, 65205
- Project Updates
  - [https://www.gocolumbiamo.com/Web\\_Mail/](https://www.gocolumbiamo.com/Web_Mail/)
    - Transmission line link at the bottom of page
  - <https://www.gocolumbiamo.com/WaterandLight/Electric/ProposedElectricTransmission.php>

# Outline

- Open House 6:00 – 7:00
- Presentation 7:00 – 7:30
- Question & Answer 7:30 – 8:00
- Open House 8:00 – 9:00



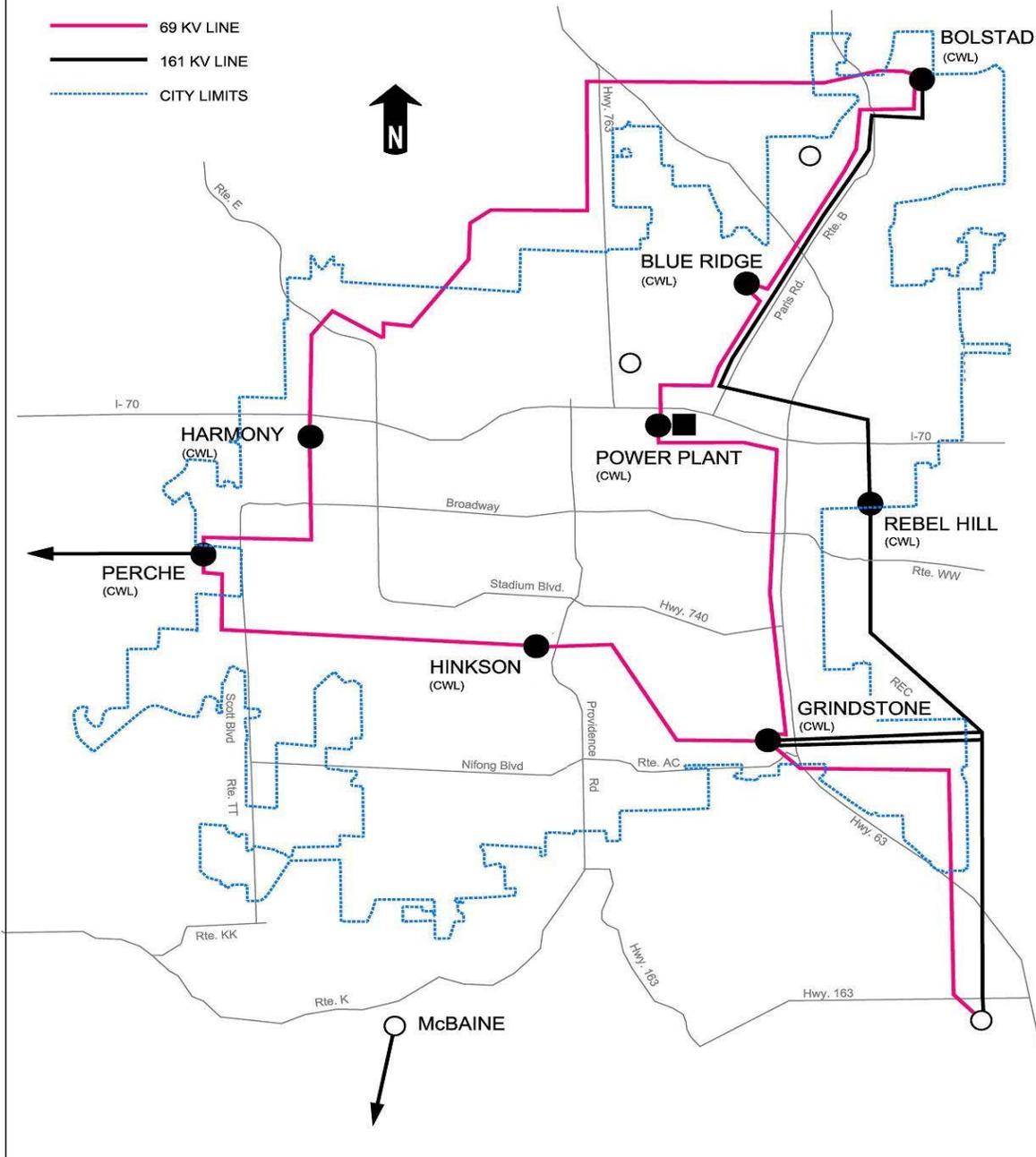
# Background



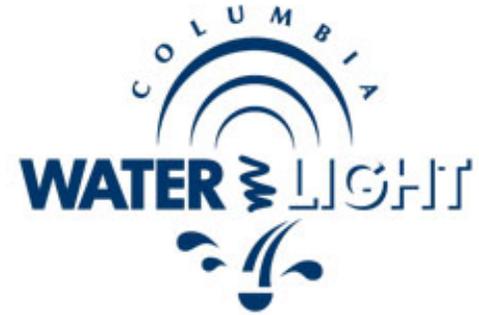
- 2007 – Reliability Concern Identified
  - Water & Light identified weaknesses in the high-voltage electrical transmission lines around the City of Columbia that result in overloads on the 69 kilovolt (kV) system. This is a “reliability” concern.
  - Options for addressing this reliability concern were:
    1. Construction of a new generation station (power plant)
    2. Limit electrical service to new customers
    3. Construction of new transmission lines
  - Water & Light determined that constructing new transmission lines was the most feasible option in this case.

LEGEND

- PROPOSED 69 KV LINE
- 69 KV LINE
- 161 KV LINE
- - - CITY LIMITS



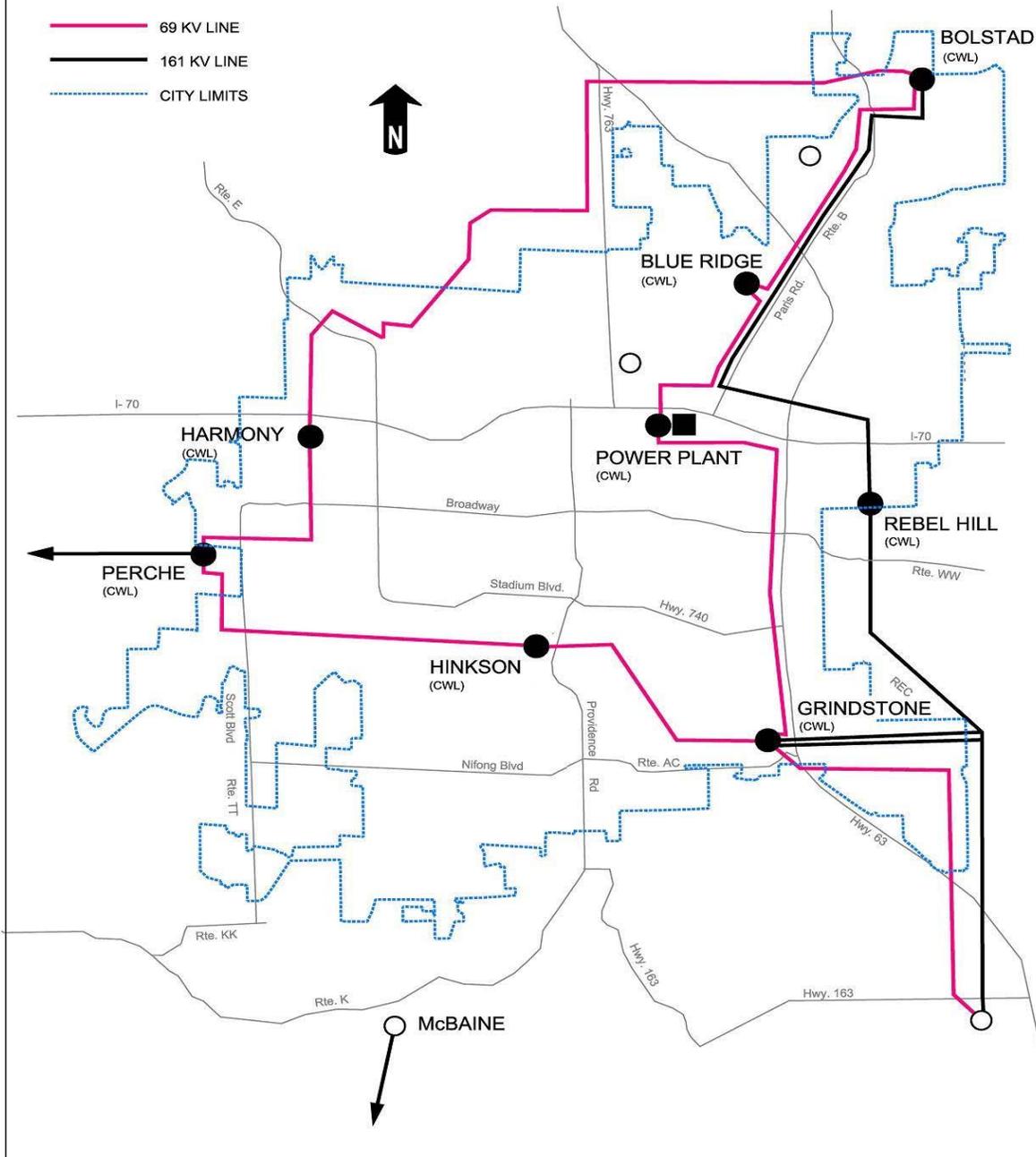
# Background



- 2007 – Load Growth Concerns Identified
  - Load growth in the southern portion of Water & Light’s electric service territory has reached the capacity limits of the electrical power substations serving the area. This area of town needs a new substation to continue serving loads as the city grows.

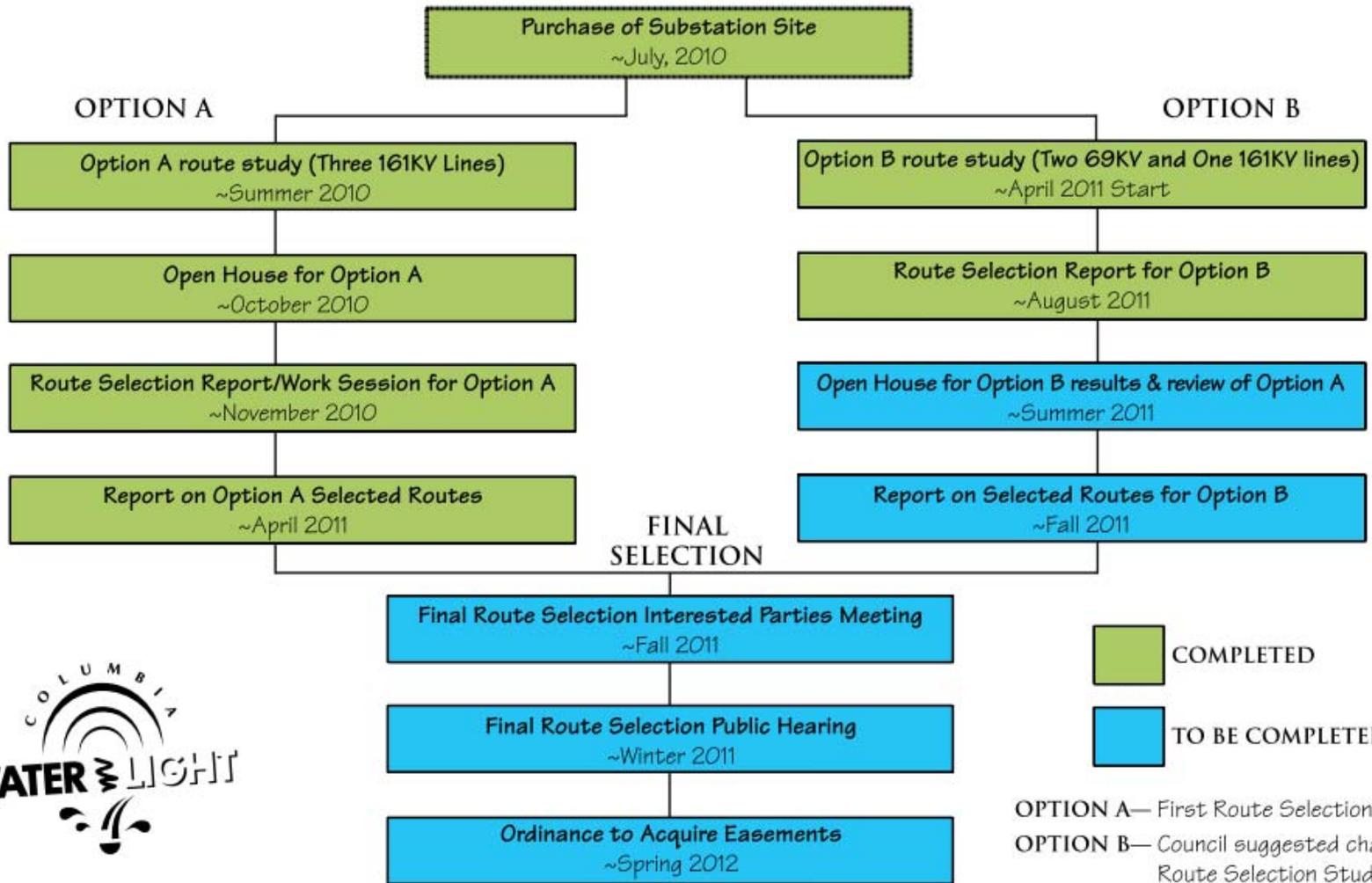
LEGEND

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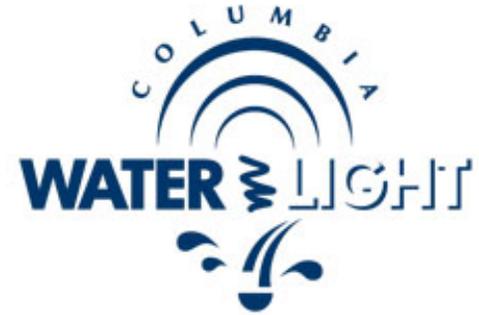


# CITY OF COLUMBIA WATER & LIGHT DEPARTMENT

## Mill Creek Substation Transmission Line Routing Project Time Line

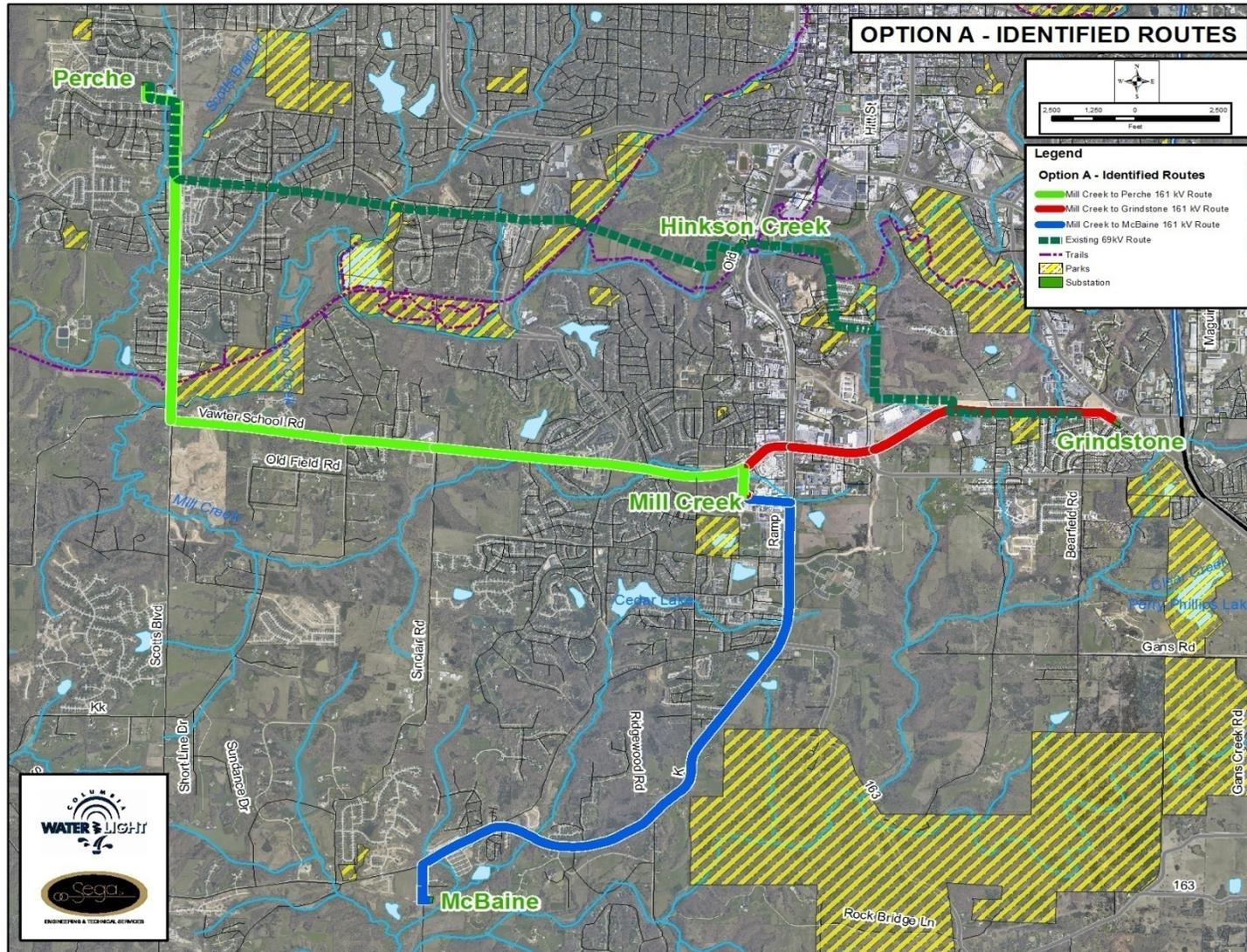


## Option A



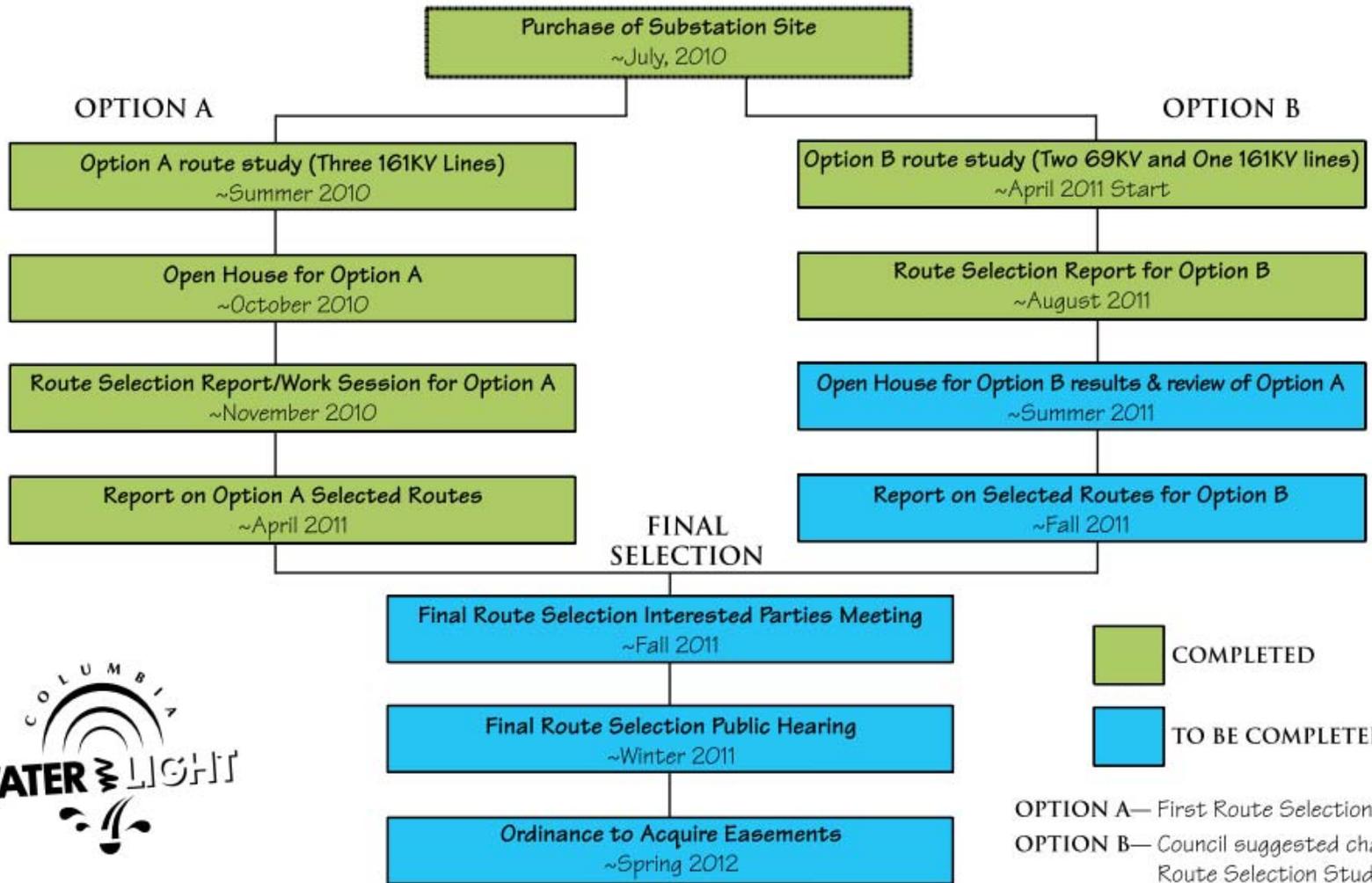
- At the open house meeting last October, Water & Light presented the Option A routes and all route options.
- Since that time, Water & Light has analyzed public feedback and used those results to build the criteria in a decision matrix.
- Water & Light presented the routes identified by the decision matrix to Council in April 2011

# Option A Identified Routes Presented to Council April, 2011

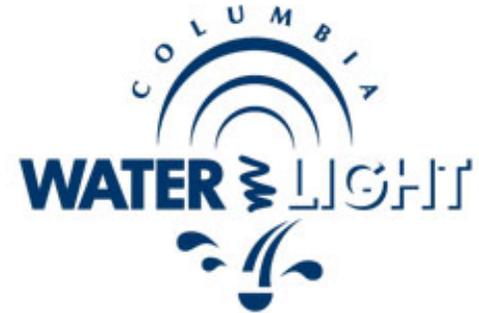


# CITY OF COLUMBIA WATER & LIGHT DEPARTMENT

## Mill Creek Substation Transmission Line Routing Project Time Line

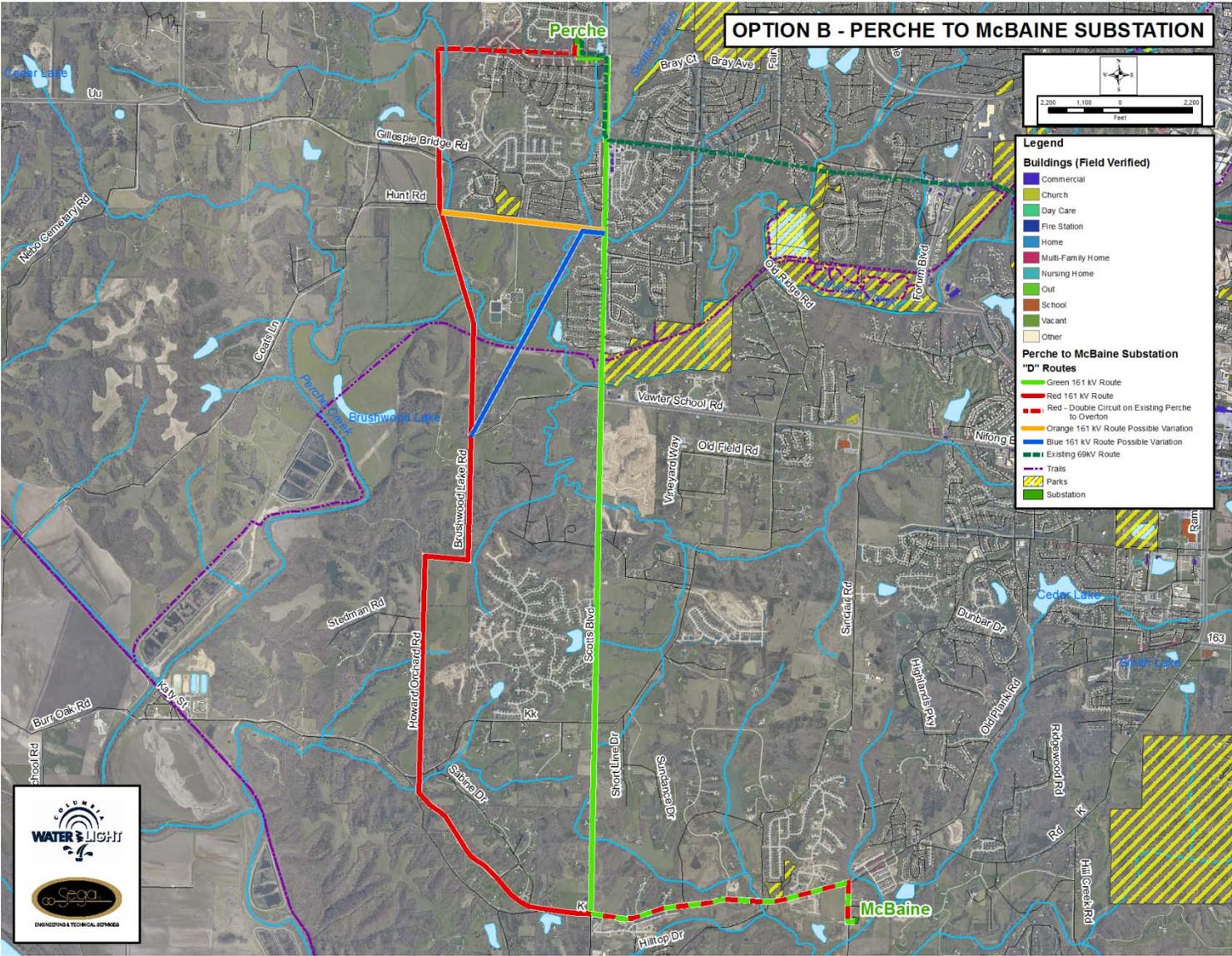


## Option B

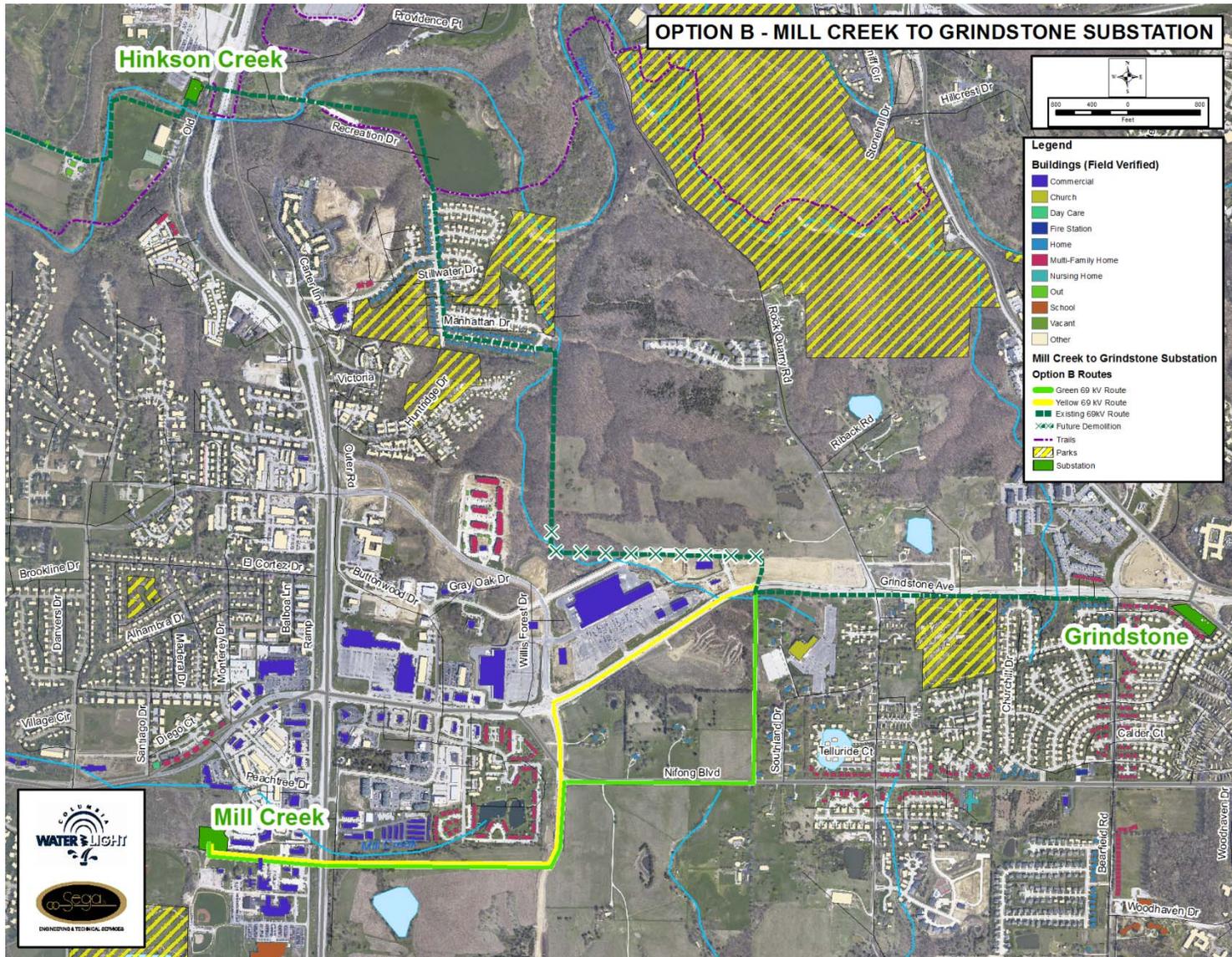


- The 69 kV transmission line for Option B utilizes an *existing* transmission line that currently runs from Grindstone Substation to Hinkson Creek Substation.
- New 69 kV transmission line routes will need to be erected in locations to and from the Mill Creek Substation and the existing Grindstone-Hinkson Creek 69 kV transmission line.
- The 161 kV transmission line for Option B runs along the perimeter of the Water & Light service territory, affecting as few residents as possible.

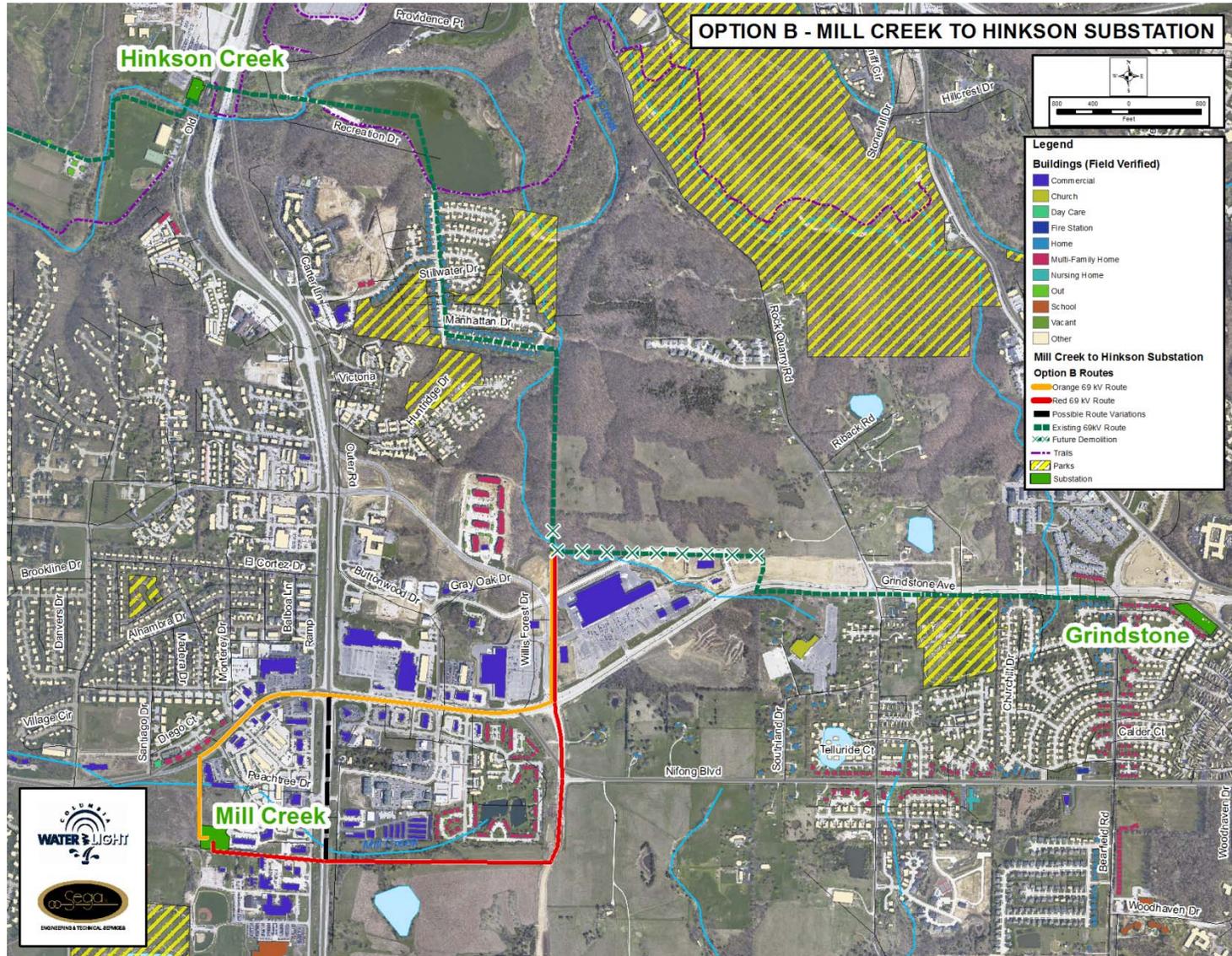
# Option B Routes McBaine to Perche Creek



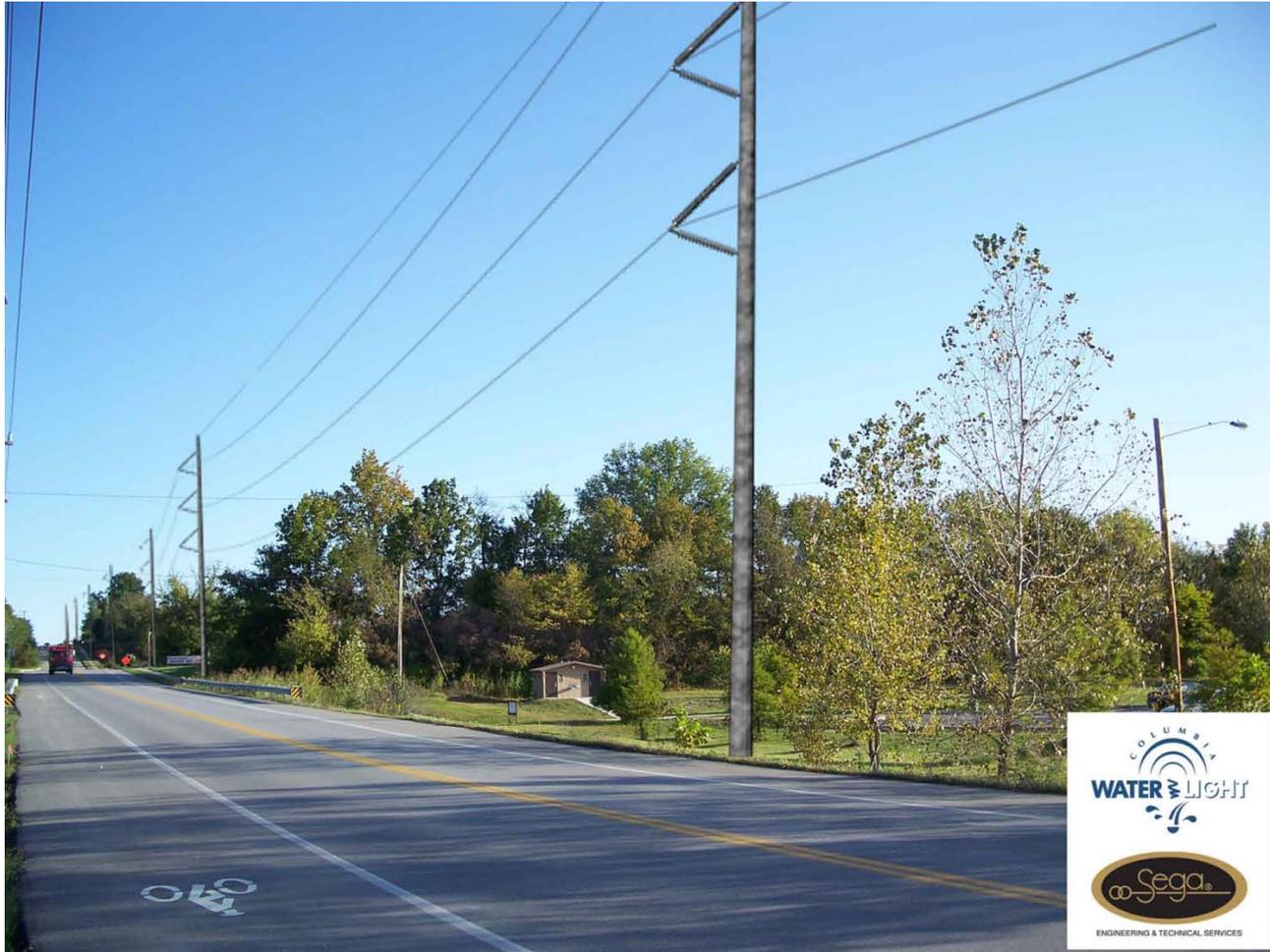
# Option B Routes Mill Creek to Grindstone



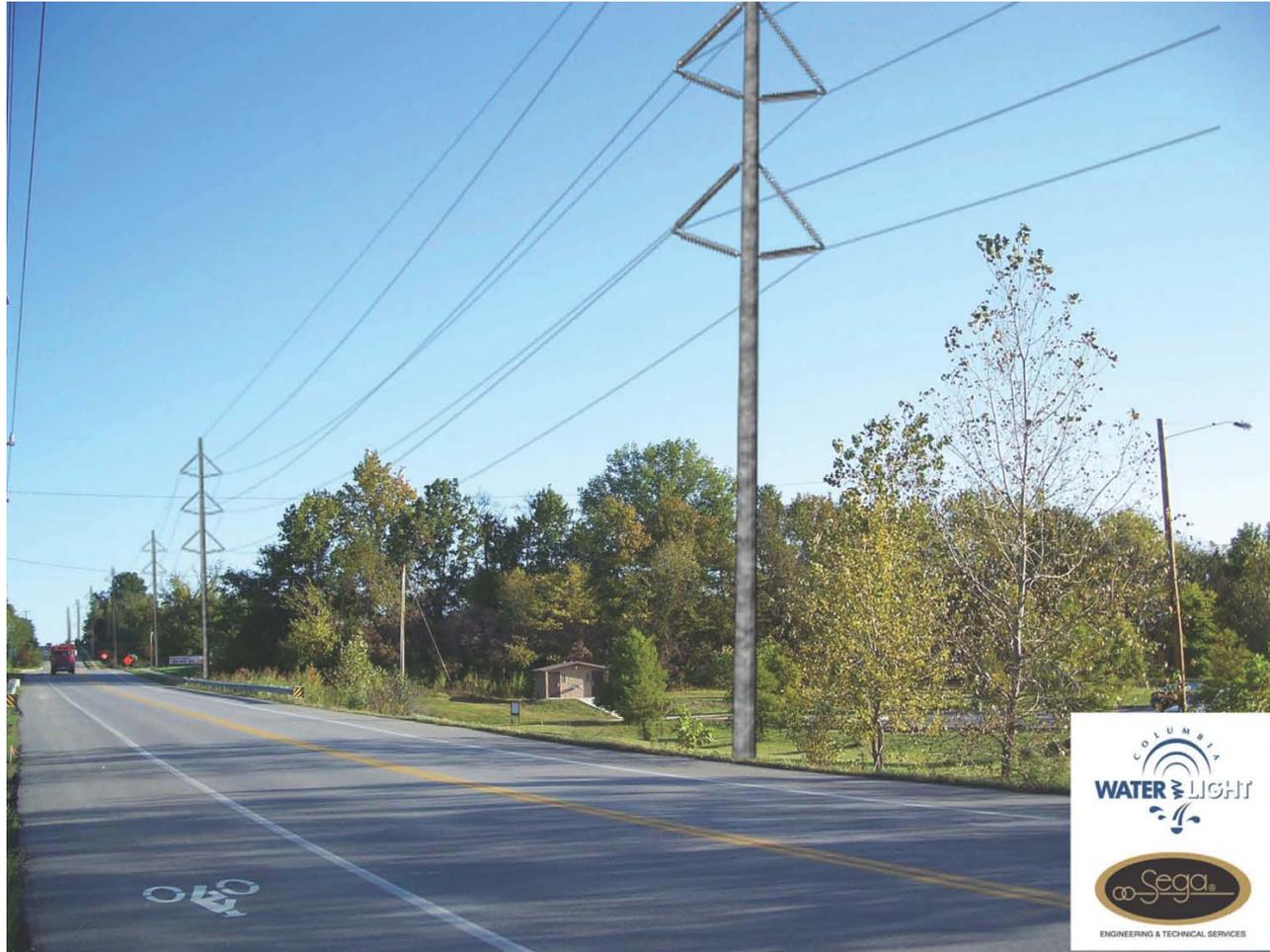
# Option B Routes Mill Creek to Hinkson Creek



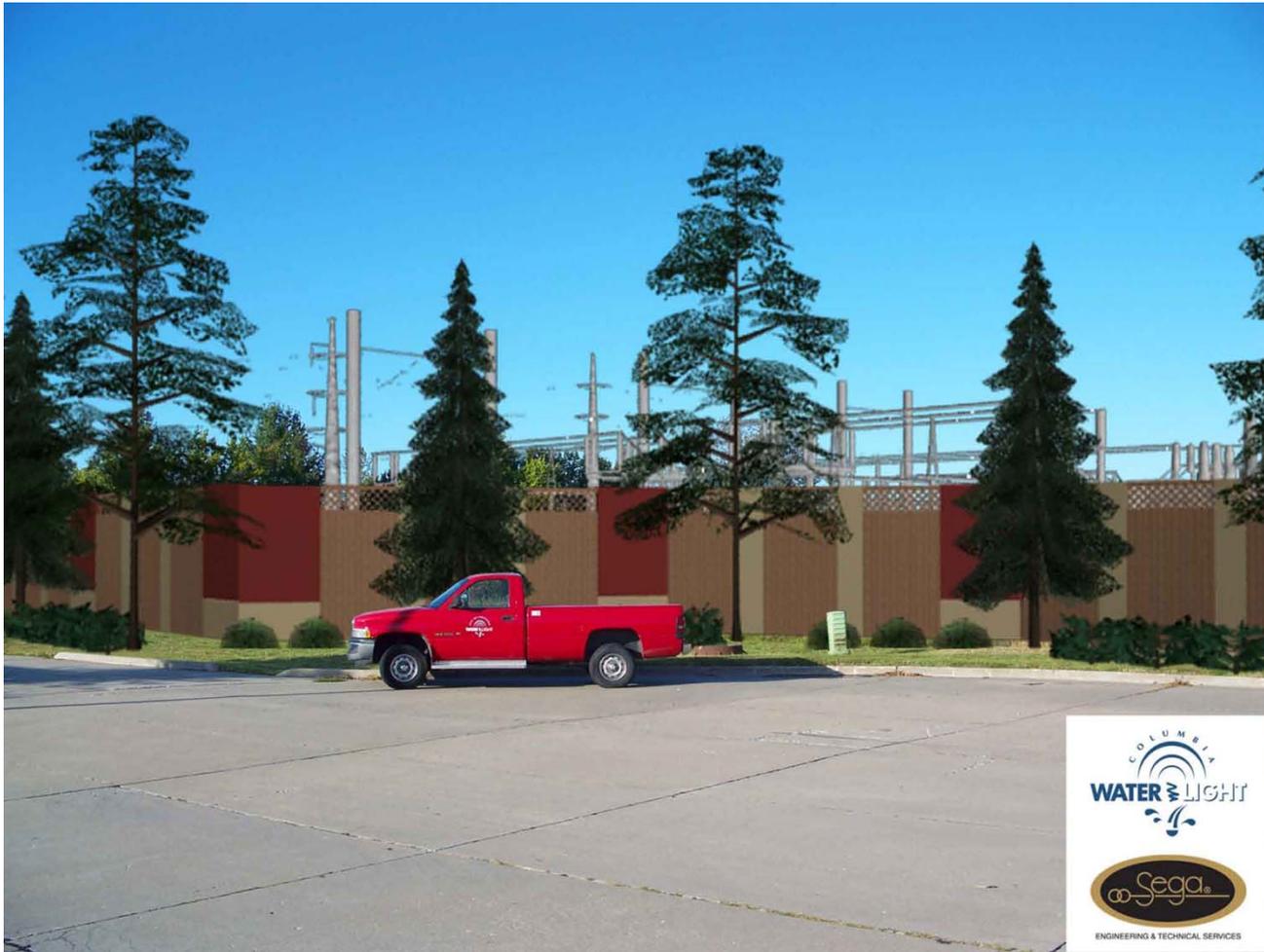
# Single Circuit Line



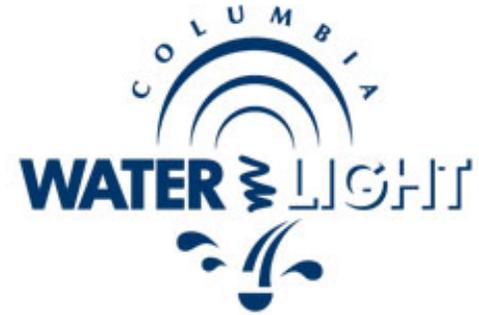
# Double Circuit Line



# Mill Creek Substation



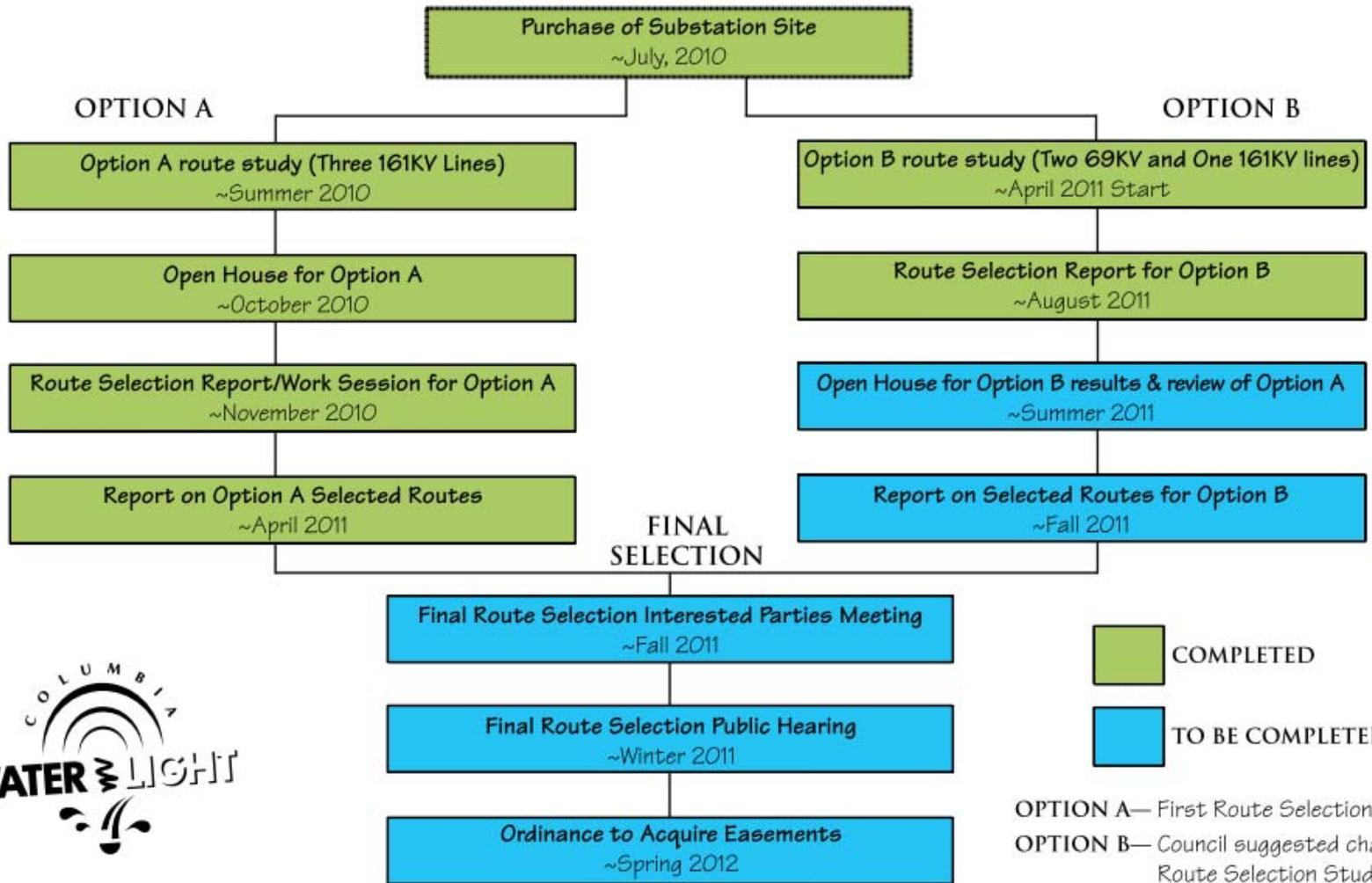
## Next Phase of Project



- Tabulate results from tonight's open house questionnaire
- Use questionnaire data to construct the Option B transmission line route "decision matrix"
- Report to Council with the results of the Option B transmission line route decision matrix (2011).
- Council will direct Water & Light on the next steps

# CITY OF COLUMBIA WATER & LIGHT DEPARTMENT

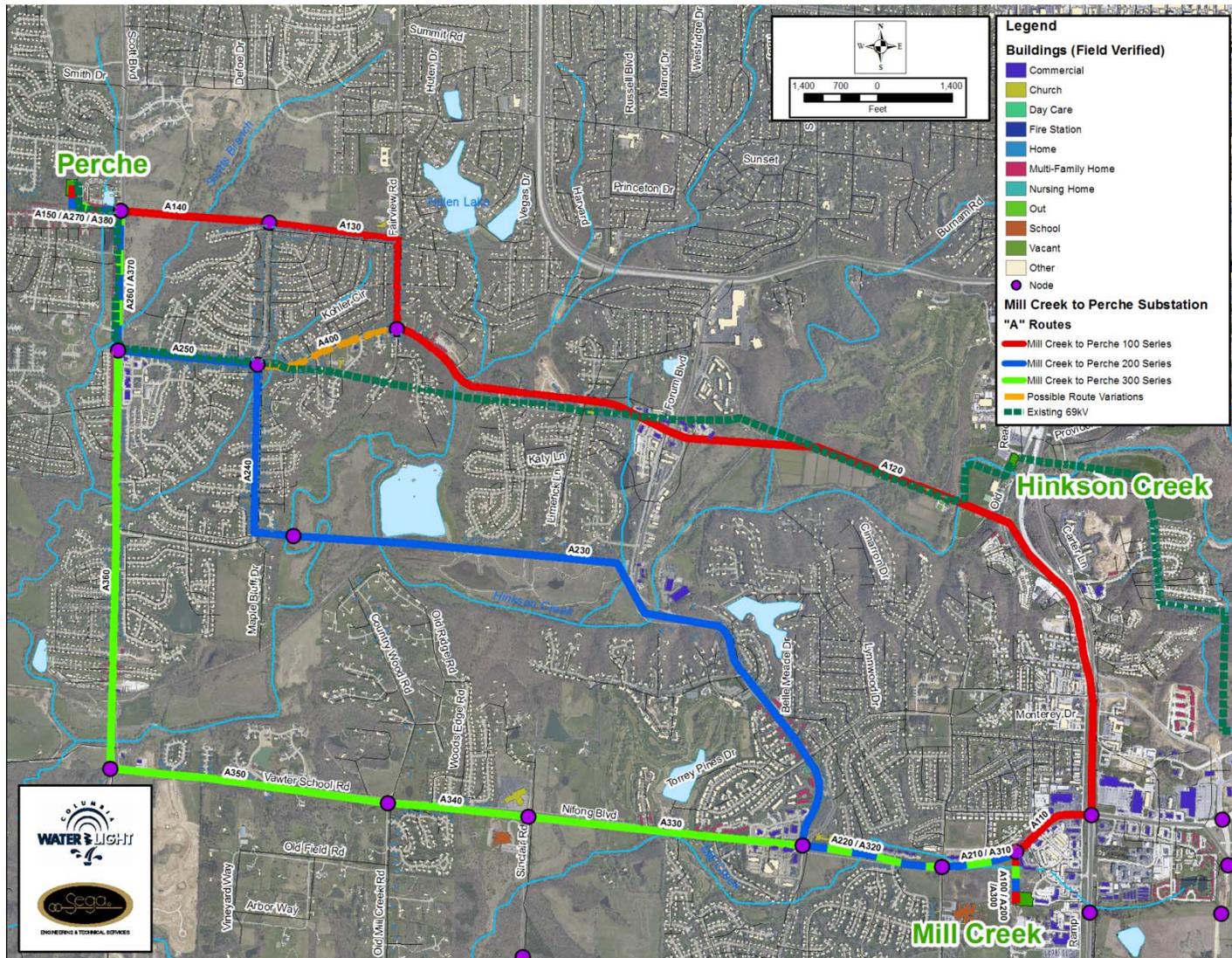
## Mill Creek Substation Transmission Line Routing Project Time Line



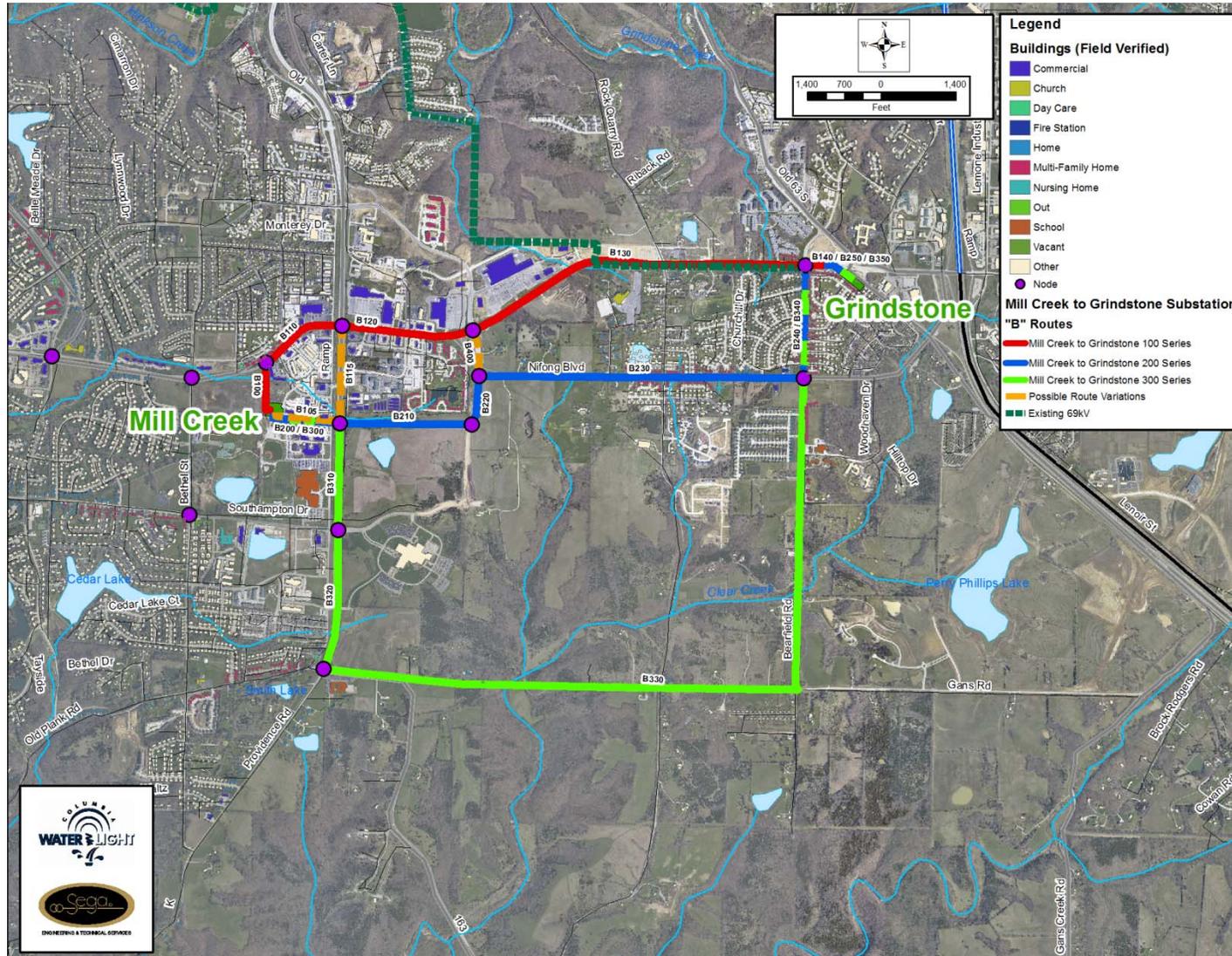
Questions?



# Option A Routes Mill Creek to Perche Creek Presented to Public October 2010

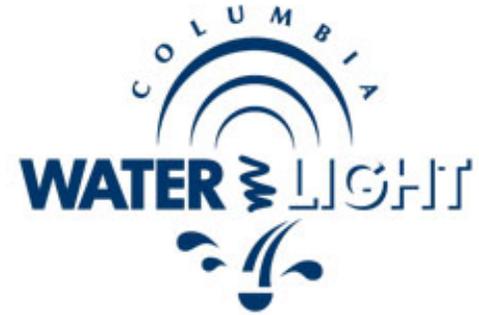


# Option A Routes Mill Creek to Grindstone Presented to Public October 2010





# Project History



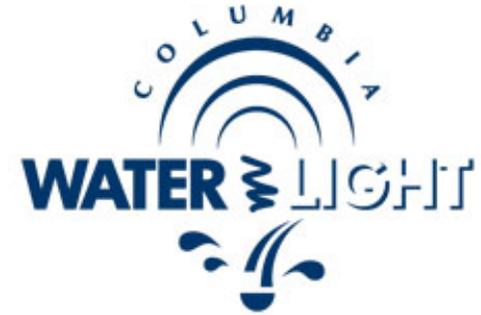
- 2008
  - Sega, Inc. hired. They started by helping Water & Light with identifying the new substation location.
- January 2009
  - Ten possible sites for the new substation were identified and an “interested parties” meeting was held
- Spring 2009
  - An interested seller approached the city
- Summer 2009
  - Area property owner requested other properties be investigated for the substation site

# Project History



- February 2010
  - At a pre-council work session, the factors associated with building a new electric substation and three new 161 kV transmission lines were discussed
- March 2010
  - The City Council approved Bill B54-10 adopting an ordinance to acquire the Peach Ct. site for a substation
- June 2010
  - Sega, Inc. presented staff with three or more alternate routes for each transmission line section

# Project History



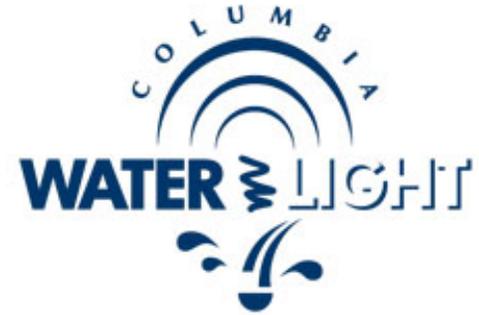
- July 2010
  - The Peach Ct. substation site was acquired, now referred to as the Mill Creek Substation
- October 2010
  - Three open houses (one for each line section) were hosted to introduce the transmission line portion of the project to the public.
- November 2010 and February 2011
  - City Council work session held to review the proposed substation and transmission routes. They have instructed the utility to explore another series of options now referred to as Option B

# Project History



- April 2011
  - A report on Option A and a change order request to the Sega, Inc. contract to study Option B went to Council
- August 2011
  - Various line routes for Option B were presented to Council in a report
- September 28 (present day)
  - Water & Light is conducting an open house meeting with the public to present Options A and B and to gather feedback that will be used to help determine which Option B lines best serve the community.

# Project History



- September 28 (present day)
  - Water & Light is conducting an open house meeting with the public to present Options A and B and to gather feedback that will be used to help determine which Option B lines best serve the community.
  - This is not a public hearing
  - After presentation Water & Light will have a brief question/answer session, comments are not being recorded
  - Water & Light will be keeping copies of all written comments from the questionnaire