



# Quartz Creek Transmission Line Rebuild: Girdwood to Indian

Community Meeting  
March 12, 2024

# Agenda

- Project background
- Construction schedule and activities
- Q&A



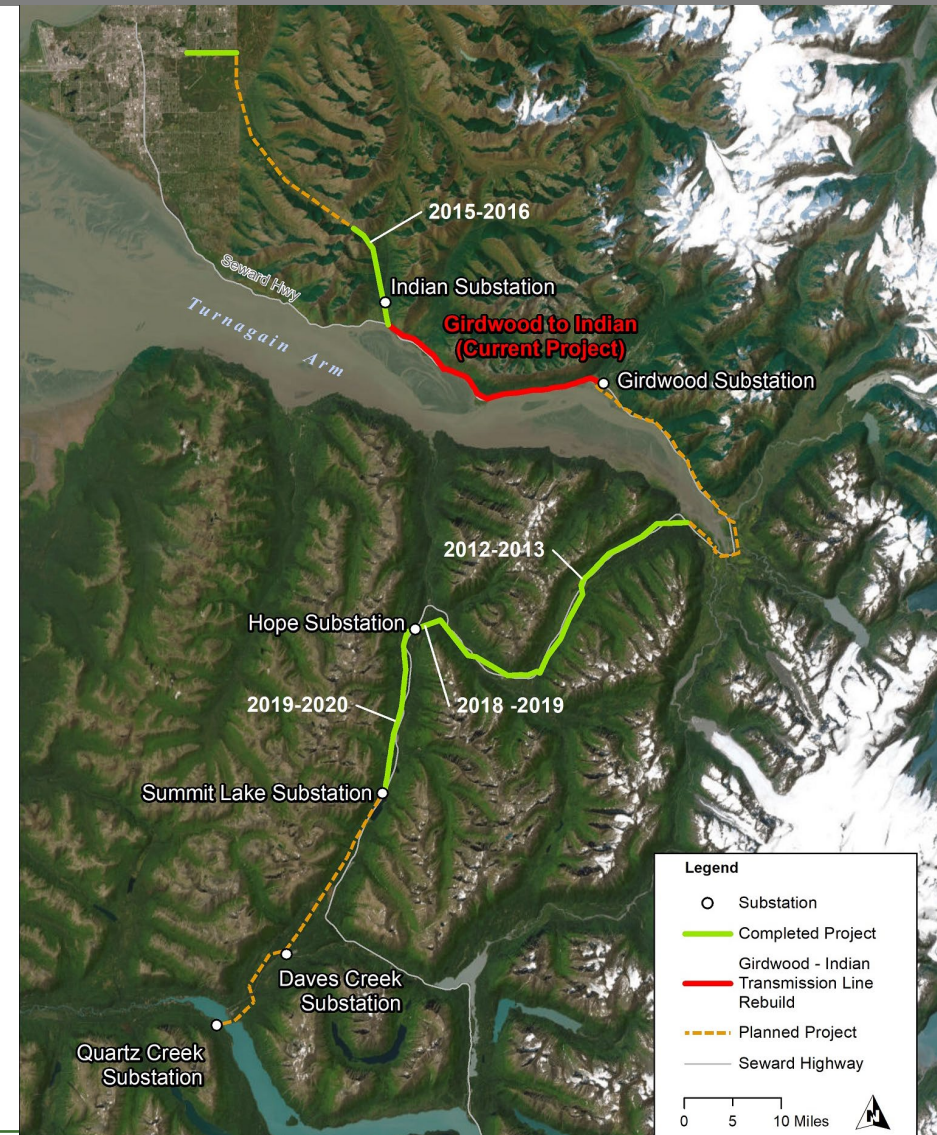


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Transmission Line Rebuild

# How Did We Get Here?

# Background

- Chugach is rebuilding the transmission line segment between Girdwood and Indian
- Constructed in 1962 for Cooper Lake Hydroelectric Plant
- Transmission path for Bradley Lake energy (increased use)
- Serves communities in Chugach's territory
- Programmatic rebuild started in 2012
- 36 of 90 miles rebuilt to date



# Why?

## Needs:

- Foundation/anchor corrosion and other damage
- Reliability for Critical Transmission Infrastructure
  - *Transports power from Bradley and Cooper Lake hydroelectric plants*
  - *Delivers power to Indian, Girdwood, Hope, Cooper Landing, and Moose Pass communities*

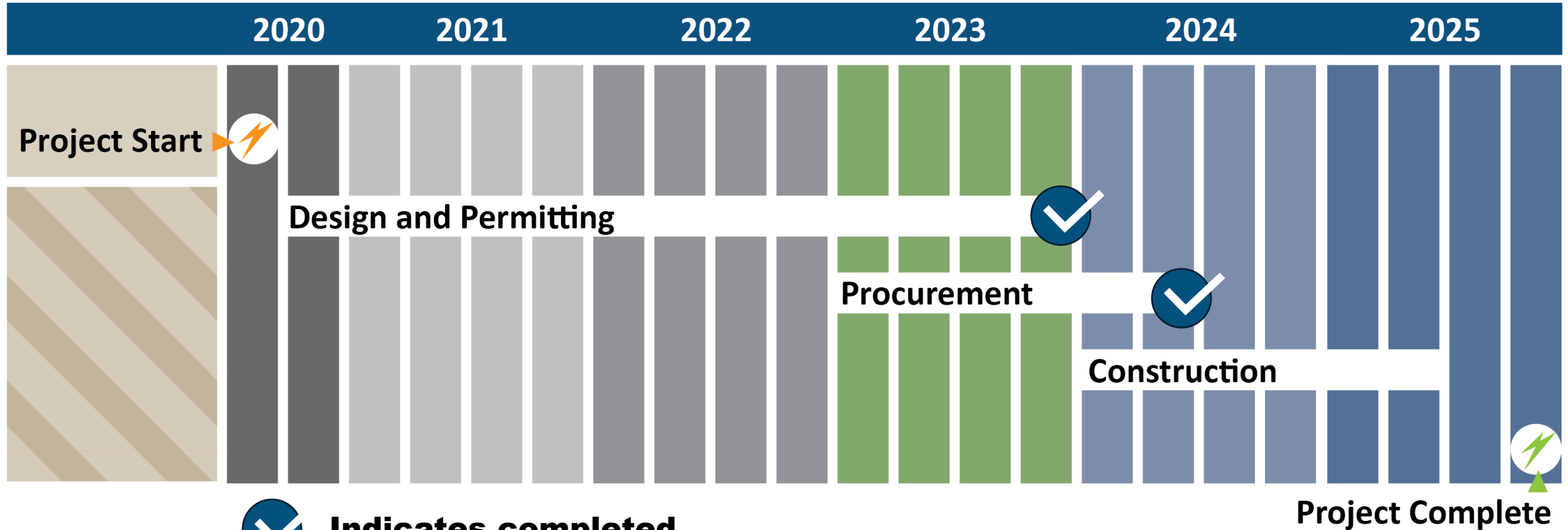
## Scope of Work:

- Retire approximately 12 miles of transmission line
- Install new: conductor, fiber optic cable, structures, guys, anchors, and foundations
  - *Wood, galvanized, and weathered steel construction*



# Activities Completed to Date

**Completed:** Design, permitting, clearing and construction contract has been awarded



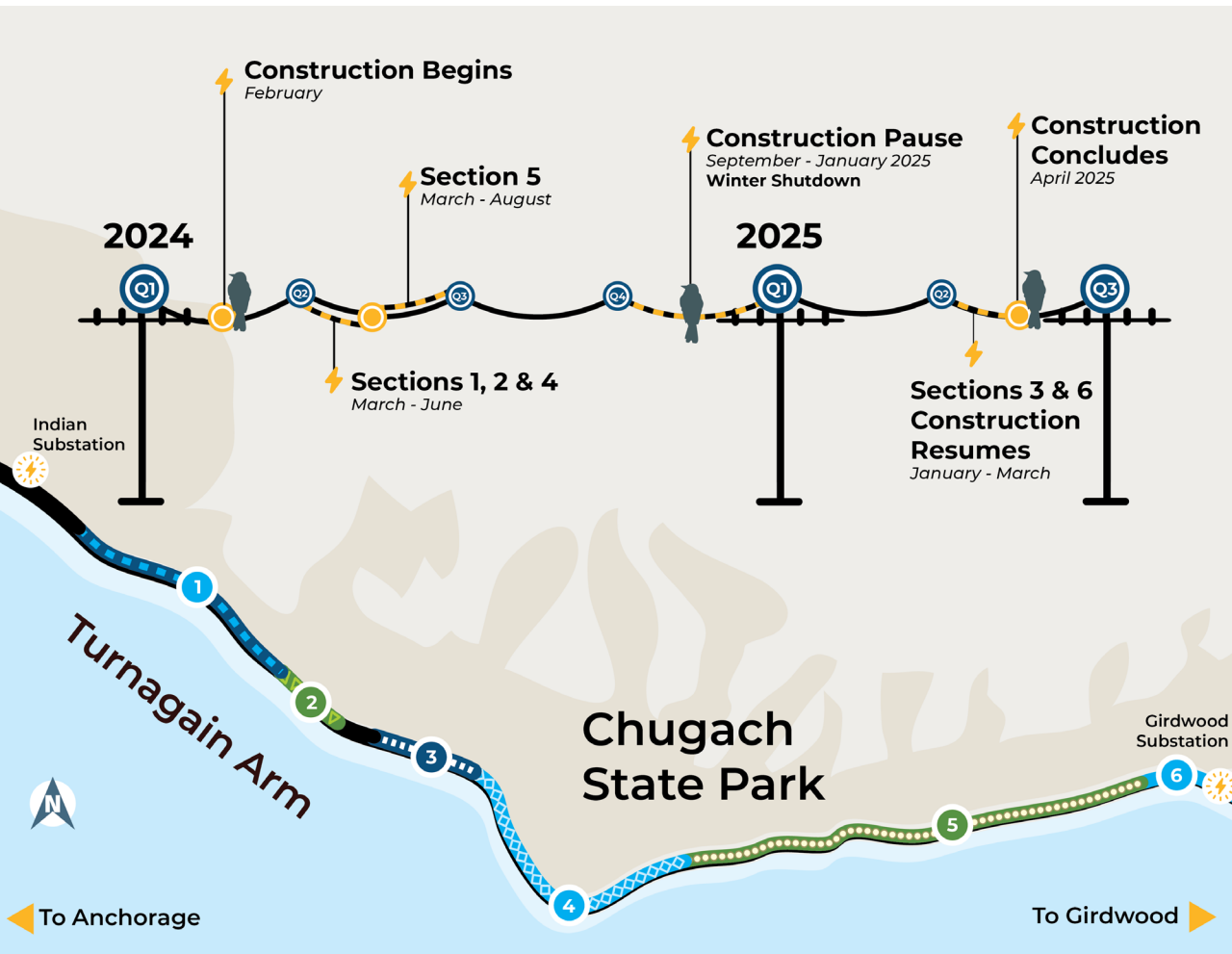
 **Indicates completed**



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# Construction

# Construction Schedule



## Section 1 – 6 Tasks:

- Civil/underground construction
- New structure setting
- Old structure removal
- New conductor installation



## Work Detail:

### Section 1 and 2 Summary:

- Culvert and Anchor Installation begins on March 8 and continues until the end of March
- In May, assembly of new structures begins at Bird Creek overflow parking and mile 95.75
  - Public may notice semi-trailer loads of poles and crossarms
- In June, a line replacement outage on the southern Intertie begins, utilizing a Chinook helicopter to transport structures
  - Crews backfill new structures and transfer existing conductors, taking about 3 weeks
- In July, a cleanup crew removes construction debris and smooths disturbed soils

## Work Detail (Continued):

### Section 3 Summary:

- Construction scheduled for January or February 2025 depending on temperatures
- Snow/ice road construction planned for access
- Pile driving, erect new structures, move existing conductors, and remove old structures
- After reenergizing the line, crews remove old piles, debris, and crane mats

### Section 4 Summary:

- Similar to sections 1 and 2, culvert and anchor installation from March to early April
- Similar processes as Sections 1 and 2 for new structure assembly and line replacement in June
- Cleanup operations in July after line reenergization

## Work Detail (Continued):

### Section 5 Summary:

- Civil subcontractor will haul gravel for structure locations between Bird Point and Girdwood from mid-March to mid-June
- Foundation work will commence from April to end of June; impacts to traffic will be minimized
- No work planned in July due to peak season traffic volume
- August outage for southern Intertie, followed by armor rock placement, hydroseeding, and guard rail replacement

### Section 6 Summary:

- Work on the Girdwood Tap begins in January or February 2025, constructing a temporary pole line and driving piles
- NPC crews set new structures on completed pilings
- Short outage to connect Girdwood Substation to new line, followed by removal of temporary line and cleanup of right-of-way



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# Breakout

# Contact Us!

## Email Us



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## Website



[girdwoodtoindianrebuild.com](http://girdwoodtoindianrebuild.com)



# Proposed Rebuild Schedule: Girdwood - Indian



Completed Rebuilds	Approx. Miles	Year	Status
Ingram to Silvertip	15	2012	Complete
Powerline Pass	6	2016	Complete
Silvertip to Hope Substation	4	2017	Complete
Hope Sub. to Summit Substation	10	2018	Complete
Placer River	1	2020	Complete
<b>Completed Subtotal</b>	<b>36 miles</b>		
Planned Rebuilds			
Girdwood Sub. to Indian	11	2024	Planned
Summit Lake to Daves Creek Substations	10	2026	Planned
Daves Creek to Quartz Creek Substations	7	2029	Planned
Girdwood Substation to Ingram Creek	15	2031	Planned
Tudor Junction to Powerline Pass	11	2032	Planned
<b>Planned Subtotal</b>	<b>54 miles</b>		
<b>Total</b>	<b>90 miles</b>		

# Quartz Creek Rebuild: Girdwood - Indian

## Upgrade Benefits:

- Replacing assets nearing the end of useful life (original line const. 1962)

## Consistent basis of design and practices:

- Anticipating future development: raising clearances and utilizing equipment with greater electrical ratings
- Larger conductor: increasing strength, standardizing, and lowering electrical losses
- Designed for fiber optic cable
- 50-year life robust design addressing known avalanche, strength, wind, icing, and vegetation issues.

