



# Design Alternatives

Parks Highway MP 231 Enhancements  
61299/0A44020



Since initial public involvement, the Alaska Department of Transportation & Public Facilities (ADOT&PF), has identified two design alternatives for this project:

1. Replace existing highway bridge with a wider bridge that will allow for turn lanes, wider shoulders, and a separated pedestrian walkway.
2. Construct a stand-alone pedestrian bridge and relocate McKinley Village entrance to accommodate a left turn lane.

Advantages and disadvantages of each design alternative are as follows:

Design Alternative 1	Design Alternative 2
<p><b>Advantages:</b></p> <ul style="list-style-type: none"><li>• Utilize existing approach to McKinley Village and Grizzly Bear Cabins.</li><li>• Improved accessibility and safety for commuter bicyclists.</li><li>• Left turn lane for Grizzly Bear Cabins.</li><li>• Consolidate traffic impacts (reduced future bridge replacement impacts).</li></ul> <p><b>Disadvantages:</b></p> <ul style="list-style-type: none"><li>• Construction cost (\$7 million more than alternative 2)</li><li>• Half-width bridge construction will require reduced traffic speed and intermittent lane closures during construction.</li></ul>	<p><b>Advantages:</b></p> <ul style="list-style-type: none"><li>• Greater separation between pedestrians and highway.</li><li>• Construction cost (\$7 million less than alternative 1).</li><li>• Bridge construction is out of traffic.</li></ul> <p><b>Disadvantages:</b></p> <ul style="list-style-type: none"><li>• Reduced accessibility for commuter bicyclists.</li><li>• Additional travel distance for boat launch and hotel users.</li><li>• No left turn lane for Grizzly Bear Cabins.</li><li>• Increased maintenance cost for ADOT&amp;PF to maintain new road.</li></ul>

**Project Purpose:** Improve safety and reduce maintenance costs at Parks Highway MP 231.

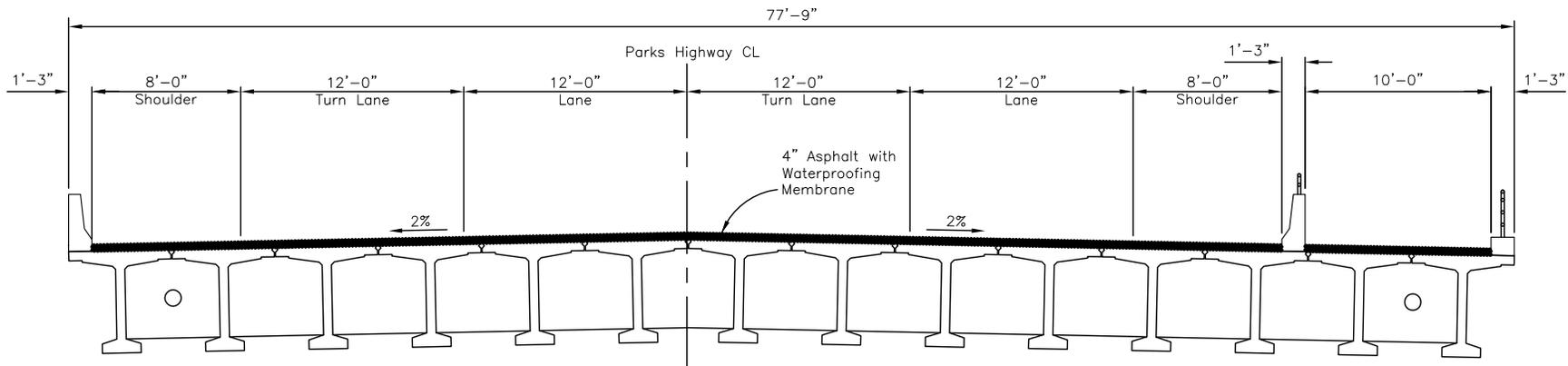
**Current Status and Schedule:** ADOT&PF is working on preliminary engineering and environmental documentation, with expected completion in July 2015. Construction is anticipated for summer 2018 at the earliest.

**For more information please contact:**

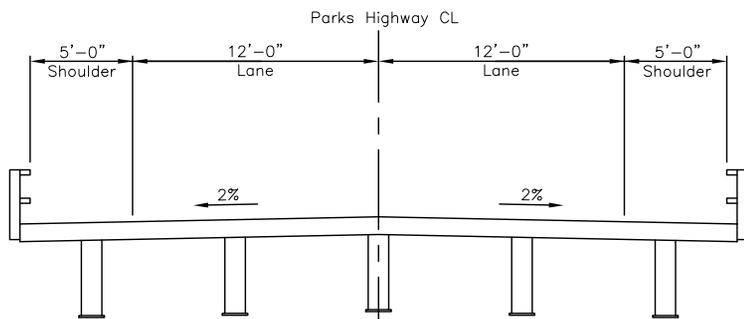
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Project Website:

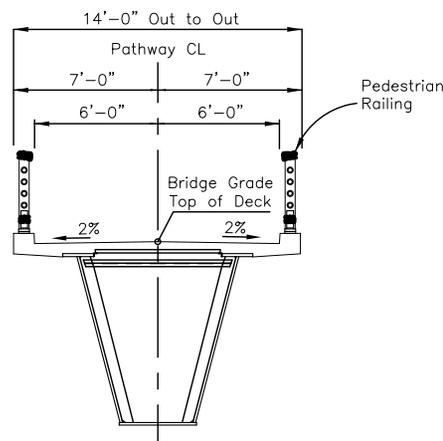
<http://dot.alaska.gov/nreg/parks231/>



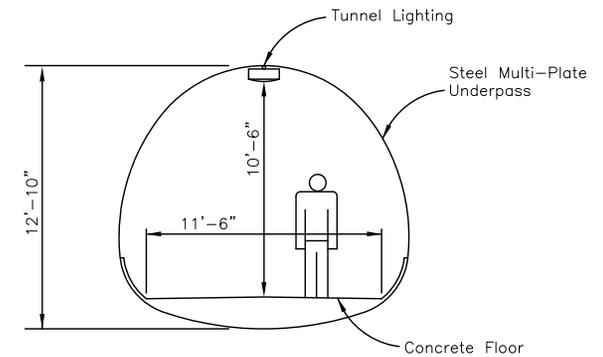
Concept Typical Section  
Nenana River Bridge (Design Option 1)



Existing Typical Section  
Nenana River Bridge



Concept Typical Section  
Pedestrian Bridge (Design Option 2)



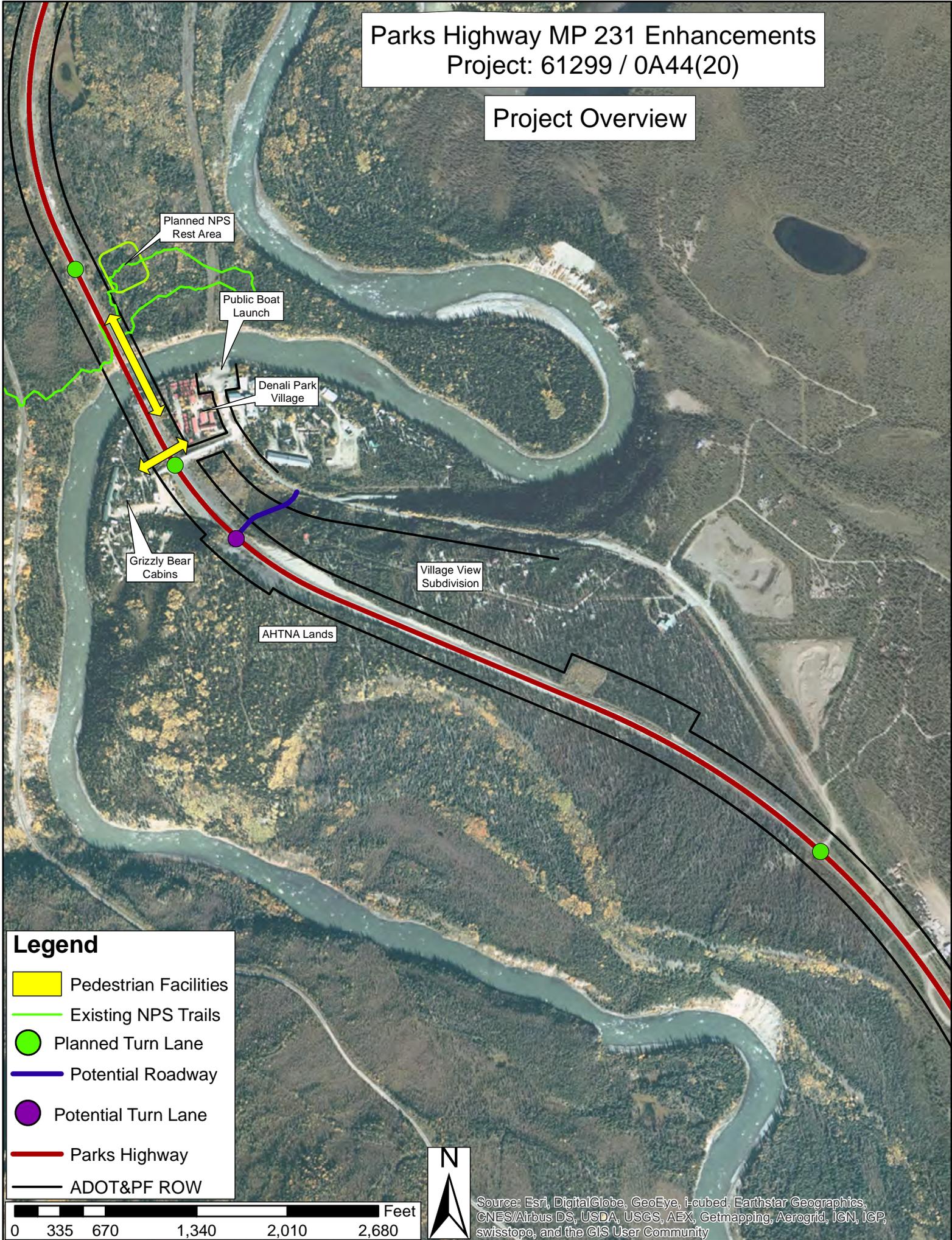
Concept Typical Section  
Pedestrian Tunnel  
(Design Option 1 & 2)

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
PARKS HIGHWAY MP 231 ENHANCEMENTS	
DRAWN: DJ	PROJECT NO. OA44020/61299
DATE: 4/13/2015	

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# Parks Highway MP 231 Enhancements Project: 61299 / 0A44(20)

## Project Overview



# Parks Highway MP 231 Enhancements Project: 61299 / 0A44(20)

## Design Alternative 1

Planned NPS  
Rest Area

Public Boat  
Launch

Denali Park  
Village

135 ft  
Tunnel

Ciri Corp.  
Property

Grizzly Bear  
Cabins

Denali Borough  
Property

Village View  
Subdivision

### Legend

- Existing NPS Trails
- Pedestrian Path
- New Bridge
- Property Lines
- ADOT&PF ROW
- Edge of Roadway
- Pedestrian Tunnel



AHTNA Lands

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

# Parks Highway MP 231 Enhancements Project: 61299 / 0A44(20)

## Design Alternative 2

Planned NPS  
Rest Area

Public Boat  
Launch

Denali Park  
Village

135 ft  
Tunnel

Ciri Corp.  
Property

600 ft

Grizzly Bear  
Cabins

670 ft

Denali Borough  
Property

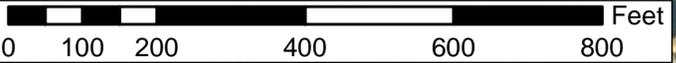
530 ft

Village View  
Subdivision

AHTNA Lands

### Legend

- Existing NPS Trails
- Existing Bridge
- Pedestrian Path
- Edge of Roadway
- Property Lines
- ADOT&PF ROW
- Pedestrian Bridge
- Pedestrian Tunnel



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community