

DOE Methodology for Roads Section 106 Programmatic Agreement & Effective February 23, 2019 Section 106 PA Body 🌽 Section 106 PA Appendix A -- Acronyms 🔑 Section 106 PA Appendix B -- Programmatic Allowances 🔑 Section 106 PA Appendix C -- Screening Forms Appendix C.1 -- Screening Form, New Projects Appendix C.1 -- Screening Form, Project Updates Section 106 PA Appendix D -- Delegated Section 106 Process 🔑 Section 106 PA Appendix E -- Cultural Resources Qualifications Training Section 106 PA Appendix F -- Arch Monitor Discovery 🌽 Section 106 PA Appendix G -- Standard Specs Section 107 🔑 Section 106 PA Appendix H -- Human Remains 🔑 Section 106 PA Appendix I -- Amendment Log 🔑 Section 106 PA Appendix J -- Historic Roads Consideration for Standard Consultation Projects, Use After Feb. 23, 2019 http://www.dot.state.ak.us/stwddes/desenviron/resources/historicproperties.shtml

Keep Alaska Moving through service and infrastructure

Alaska Roads

Methodology for Assessing National Register of Historic Places Eligibility

Prepared for

Alaska Department of Transportation and Public Facilities

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DOE Methodology

The Methodology outlines a sequential, 4-step process for determining eligibility of roads

Step 1: Screening

The road is screened via filters and denoted as Category 1 or 2.

Category 2 roads continue for further consideration.

Step 2: Significance

Review of significance under National Register criteria, per Methodology guidance. Research includes entire road.

IF not significant, advance to Step 4

Step 3: Integrity

IF the road is found significant, then identify essential physical features and assess integrity via field survey, as applicable to the project.

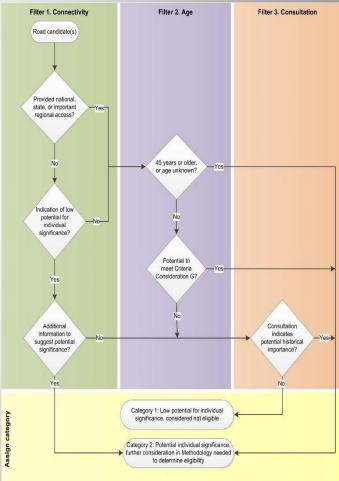
Step 4: Finalize DOE

Final determination is made by the agency (DOT&PF) and sent to SHPO for concurrence

Methodology Steps

Step 1: Screening Process

- Designed to focus time and energy and avoid creating lengthy DOEs for commonplace roads.
- Road examined through three filters:
 - Connectivity: did the road provide important national, state, or regional connections?
 - Age: is the road 45 years or older, or likely to possess exceptional significance under Criteria Consideration G?
 - Consultation: does input from the public and consulting parties indicate the road should be considered further?
- Screening process "utilizes readily available information, such as the Roads Overview, maps, and road data" (page 7)



Screening Process

Filter 1: Connectivity

These are categories of roads identified with low potential for significance:

- Roads historically located wholly within a community, such as residential or commercial streets
 (not co-signed with a national or state through road), when the individual contribution of these
 roads is indistinguishable from the larger community roadway system.
- Roads that historically provided routine access to common types of destinations and services, such as roads connecting subdivisions, shopping areas, waste facilities, or a local recreational area.
- The road's primary historical purpose was as a service road or to provide access to a highway or other transportation facility. Examples include an access road to a highway, airport or ferry terminal, or a frontage road.

(Methodology page 9)

Screening Process

Screening Results

- Category 1, Not Eligible
- Category 2, advance to next step for further consideration of eligibility

The next slides continue with Category 2 roads and formal DOEs



Step 2: Evaluating Significance

- When evaluating significance general practice is to consider the entire road (can later focus on discrete segments for integrity assessments)
 - Note: research may indicate a road has historically differentiated segments-- this is ok
- Roads are most likely to meet the National Register criteria A (significant events) or C (engineering merit). The Methodology focuses on these.
- Association must be direct and important—no mere association will suffice!





The Dalton Highway was significantly associated with the development of North Slope oil fields and the Trans-Alaska Pipeline, meeting the threshold via direct association with an important statewide industry, providing a critical link that led to an important phase in industry operations.

- "Rule of Two"
 - Criterion A: all roads are associated with transportation, so must demonstrate significance in an additional area

One or more supplemental areas of significance:

- Agriculture
- Community Planning and Development
- Entertainment/Recreation/Conservation
- Industry
- Military
- Politics/Government

Requirements:

- Association must be demonstrated as important in one or more areas of significance
- · Association must be direct and documented and not be speculative or incidental

Section 3.3 provides supplemental areas of significance and guidance on identifying significance

Methodology, beginning on page 13

for Example...

3.3.7 Military: Guidance on identifying significance

This area of significance may apply to Alaska's road and trail development, from 1867, when the U.S. acquired the territory from Russia, to the present. A direct association with an important statewide, regional, or local trend or program related to *Military* may be shown for roads if they affirm one or both of the following conditions:

- Established or improved access to a mission critical military facility.
- Facilitated specific activities or strategic access deemed critical for national defense.

Roads that provided routine access would not possess significance under this area of significance. Roads within the boundaries of military facilities should be evaluated as part of the larger installation.

Page 20 of the Methodology

Rule of Two

 Criterion C: must do more than reflecting features common to its type; must reflect other important design features or practices



The design of Skyline Drive, in the Blue Ridge Mountains of Virginia, embodies the principles and traditions of naturalistic landscape architecture as exhibited in the parkway movement of the early 20th century

Patterns of features common to a particular road type.

AND

One or more distinctive characteristics of a type, period, or method of construction, which may include:

Variation of features

This consideration takes into account variations in the application of road design principles and construction practices, such as choices in the use and availability of materials and technology. This may be expressed as innovative or complex engineering solutions employed to address unusual or challenging site conditions. Examples may include such features as segments of road that involved blasting rock for the construction of tunnels to traverse mountainous areas or constructing sections of super-elevated roadways to traverse coastal areas. For a road to possess significance under *Criterion C*, the solutions need to address issues that transcend the normal challenges of road building within the State. Roads that exhibit typical or modest

variations of standards in hi Register significance. This technology or features.

Evolutions and transitions

Requirements:

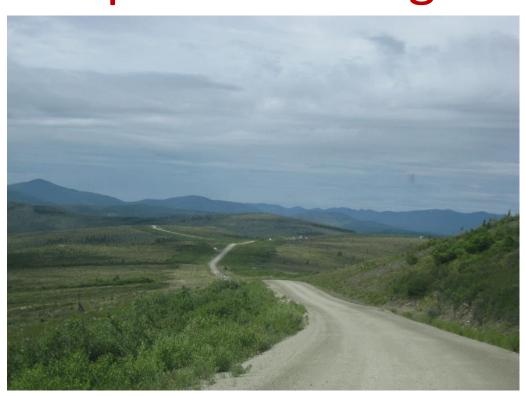
- Exhibits evidence of engineering design and/or construction features that serve to distinguish it
 from other roads. Design or construction features must be demonstrated as important in road
 engineering or the road segment must be a surviving example of a rare road type.
- This consideration takes int standing impact on the field or road engineering and were experimental in nature or served as an important departure from typical design principles or practices of the time. This may be expressed in an innovative use of materials, progression of design principles, or development of technologies or building practices that transcend typical standards in highway design of the time. Examples may include early road segments improved to all-weather standards or departures in typical road design to accommodate permafrost.

Methodology, beginning on page 23

Section 3.5 provides guidance on identifying Engineering significance

- If road does not meet the threshold for significance, skip
 Step 3 (integrity) and finalize DOE of Not Eligible
- If road is found significant, be sure to
 - Define level of significance (local, regional, state, national)
 - Define period of significance

Step 3: Assessing Integrity



Essential Physical Features (EPFs):

Present during the period of significance, and necessary to physically convey that significance

Identify the EPFs for roads which pass the threshold for significance.

Some features would not reach the level of being key to conveying significance

 Case by case decision based on identified significance





- Integrity assessment focuses on the essential features of the particular road
 - Ancillary features, by definition, are not necessary to represent the road's significance
- Field survey occurs at this stage. It is <u>not needed</u> for roads which have not met the significance threshold.
- Guidance provided in Sec 4



Aspect of historic integrity	Importance under Criterion A		
Design	Most important to convey significance – should be recognizable from the period of significance		
Materials	Least important to convey significance – if present will assist in conveying significance		
Workmanship	Least important to convey significance – if present will assist in conveying significance		
Location	Most important to convey significance – should be recognizable from the period of significance		
Setting	Important to convey significance – should be recognizable and be retained together with other aspects to convey significance		
Feeling	Important to convey significance – should be recognizable and be retained together with other aspects to convey significance		
Association	Most important to convey significance – should be recognizable from the period of significance		

Methodology page 32

Table 5. Relevant aspects of historic integrity under Criterion C

Aspect of historic integrity	Importance under Criterion C		
Design	Most important to convey significance – should be recognizable from the period of significance		
Materials	Most important to convey significance – should be recognizable from the period of significance		
Workmanship	If applicable, may be important to convey significance – should be recognizable and be retained together with other aspects to convey significance		
Location	Most important to convey significance – should be recognizable from the period of significance		
Setting	Least important to convey significance – if present will assist in conveying significance		
Feeling	Least important to convey significance – if present will assist in conveying significance		
Association	Least important to convey significance – If present will assist in conveying significance.		

Methodology page 34

The Methodology includes details on how to analyze existing alterations when assessing historic integrity, under Criteria A and C

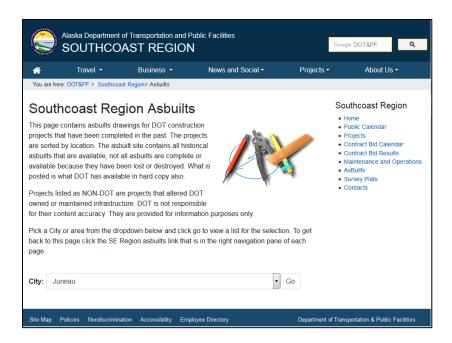
Table 4 Evennies o	Section Assessing Historic Integrity (Step					
Table 4. Examples C	Table 4. Examples of existing alterations that may affect assessment of historic integrity under Criterion A					
Examples of typical alterations (existing)	Assessment of historic integrity					
	Widening might have resulted in changes to essential physical features, such as travel lanes, median strip, shoulder, embankment, and road surface. If the essential physical features and other road features were altered to the degree that they cannot convey significance, then the road may no longer retain aspects of historic integrity typically most important for roads significant under <i>Criterion A</i> , such as design, location, and association.					
Widening portions of a roadbed outside the period of significance	Widening might not always result in a loss of integrity. For example, a small amount of widening (e.g., 5-10 feet) may not have had an impact on essential physical features such as travel lanes, embankment, or shoulder to the degree that the road can no longer convey its historic identity under <i>Criterion A</i> . As such, important aspects of historic integrity such as association, location, feeling, and design may be retained.					

Methodology page 33

Keep the Period of Significance in mind

Focus on alterations or changes which occurred after the road's period(s) of significance.

DOT&PF has numerous as-built records for projects constructed post-statehood, which can assist in dating alterations.





South Tongass Hwy segment, Ketchikan. EPFs were: two lane narrow shoulder configuration, with embankment and alignment closely following surrounding topography. Recommended as retaining integrity (of design, location, association, feeling and setting.)



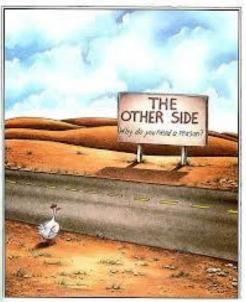
Edgerton Hwy Segment A2, illustrating altered embankment and alignment. Segment widened, with vertical and horizontal realignments to straighten curves and smooth out grade. Alterations resulted in loss of integrity of design, location, setting, and feeling.

Completion of DOE

Step 4: Finalizing DOE

With Step 4, the Methodology process is completed and a road is determined to be either eligible or not eligible; at this point DOT&PF submits results to SHPO with a request for concurrence.

Be sure to include specific boundaries for eligible roads.



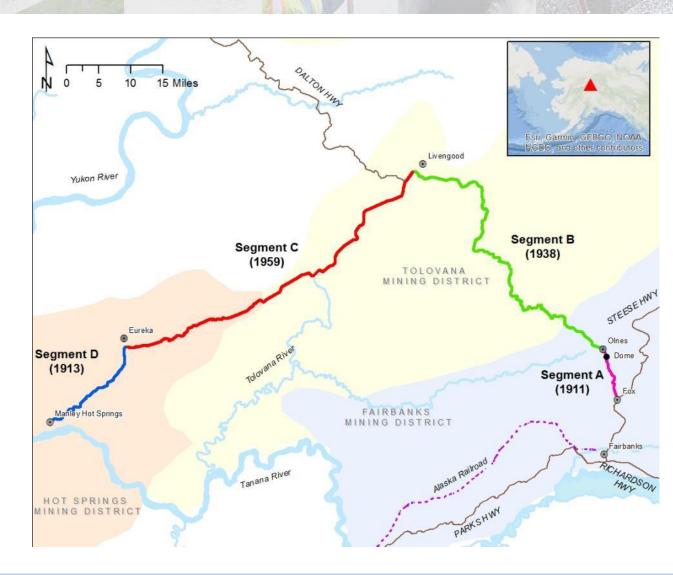
Pilot DOE: Elliott Hwy



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Varying History & Segments

- Segments had different development histories
- Segments A, B, and D met Rule of Two for significance under Criterion A for demonstrated, important association with mining



Elliott Hwy POS and EPFs

Segment	Period(s) of Significance	Feature		
	1911-1938	Single lane		
Α		 Low embankment with no shoulder 		
		 Pre-1938 alignment that connected Fox station, Dome City, and Olnes 		
	1938-1959	Single lane through 1948; two travel lanes, 1949-1959		
Λ		 Low embankment with no shoulder through 1948; subsequent 		
Α		widening to embankment, 1949-1959 (to accommodate additional		
		travel lane)		
	1938-1959	 Single lane through 1 	948; two travel lanes, 1949-1959	
		 Low embankment with no shoulder through 1948; subsequent 		
В		widening to embankı	ment, 1949-1959 (to accommodate additional	
		travel lane)		
		 Pre-1959 alignment 	that connected Olnes to Livengood	
		 Single travel lane thro 	ough c.1931; two travel lanes, c.1931-1959	
D	c.1913-1959	 Low embankment with no shoulder 		
D		 Pre-1959 alignment that connected the Tanana River, Manley Hot 		
		Springs, and Eureka		

The road surface material and roadbed-related features (such as bridges, drainage features, traffic signals, signage, mile markers, lighting safety barriers, and parking areas) from the period of significance were determined not to be necessary in understanding the road's function of providing important connections to early mining activities and its association under *Criterion A* in the areas of *Transportation* and *Industry*, and are not identified as essential physical features.

Historic Photos



View at Willow Creek Flats at Mile 15, c. 1934.



Grade at Snowshoe Gulch at Mile 15, c.1934.



Tolovana Flats looking east at Mile 49, c. 1934.



Olive Creek at Mile 58, 1934.



Bridge crossing Livengood Creek in Livengood, c. 1938.

Current photos



Representative views of Segments A and B. Current highway reflects changes after the period of significance.

Bypasses



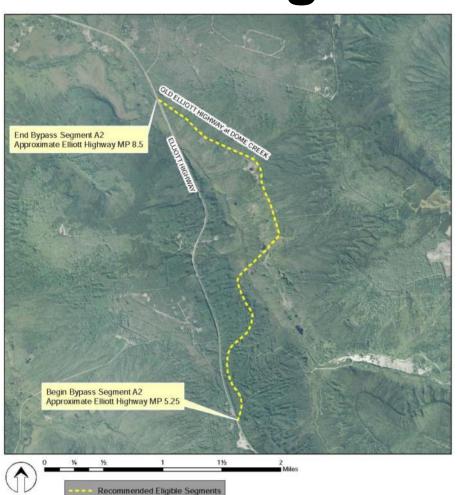


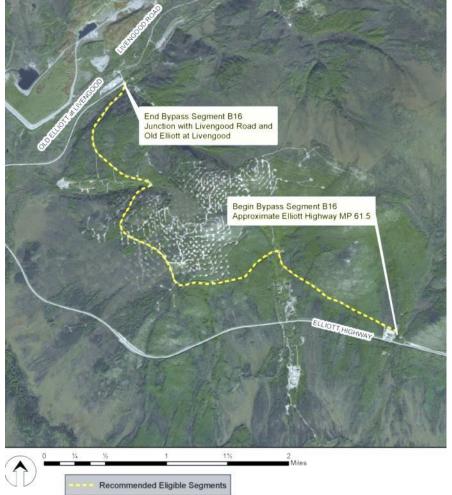




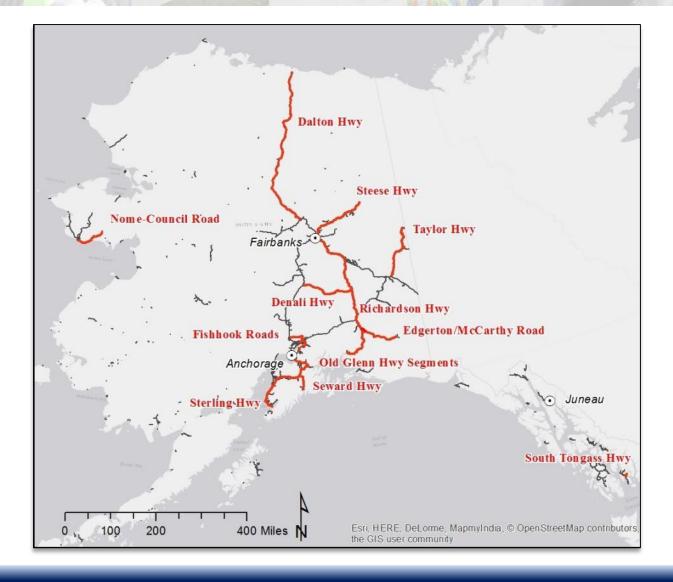
Example bypassed portions of Segment B. Top showing loss of integrity, bottom showing retention.

Location of example eligible bypasses





Recent DOEs



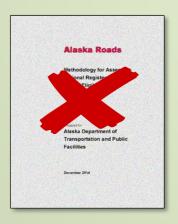
Example results

Road Name	Location(s) Assessed	AHRS Number(s)	Result	<u>Boundary</u>	Essential Features per DOE
Denali Highway (CDS 140000)	Entire	HEA-00450, XMH- 01428	Eligible, Criterion A POS 1957-1971	Length: MP 0-134, from junction with Richardson Hwy to junction with Parks Hwy Width: toe of slope to toe of slope, encompassing embankment prism.	 Two travel lanes with narrow or no shoulders. Low embankment Vertical and horizontal alignment that largely follows contour of landscape with minimal blading, grading, or cut-and-fill features; periodic sharp curves and steep grades dictated by natural conditions Other features, including bridges and the road surface, were determined not to be essential for conveying the road's significance and do not contribute to the eligibility of the road.
Edgerton Hwy (CDS 198000)	Edgerton Highway, MP 0-33 (Chitina)	VAL-00594, VAL- 00597	Not Eligible	n/a	n/a
Elliott Hwy (CDS 198000)	Entire (excluding bypass segments)*	LIV-00750, LIV- 00751, LIV-00752, TAN-00126, TAN- 00127, XKR-00030	Not Eligible	n/a	n/a
Old Edgerton Loop Rd (CDS 198500)	Old Edgerton Hwy MP 0-12 (Willow Creek to Kenny Lake)	VAL-00595	Eligible, Criterion A POS 1911-1938	Length: MP 0-12, from junction with Richardson Hwy to junction with Edgerton Highway at Kenny Lake Width: toe of slope to toe of slope, encompassing embankment prism	 One to two travel lanes No shoulder Low embankment Horizontal Alignment: pre-1938 alignment connected Willow Creek (MP 92.4 Richardson Highway), with Chitina with sharp curves around small ponds and wetlands at northern portion of road. Vertical Alignment: relatively flat terrain at northern end, alignment alongside valley edge immediately north of Chitina. Other features were determined not to be essential for conveying the road's significance and do not contribute to the eligibility of the road.

Coordination with Section 106 PA

Streamlined Reviews (aka Programmatic Allowances)

 Projects that qualify do not trigger road DOEs; so Methodology does not apply



Standard Consultations

Road DOE Methodology
may apply, case by case
There is a preliminary
consideration step outlined in
Appendix J



Confirm with DOT&PF PQI before using Methodology on a project

Consultant Surveys

To keep in mind for DOT&PF projects:

- Not all projects will involve DOEs on roads, even if roads are within the APE
- For projects that may require evaluations
 - Confirm this with PQI
 - Follow the Methodology
 - Begin with Category 1 screening, unless the road has already been determined to be Category 2 (e.g., tiering from an existing DOE)

Connect with DOT&PF PQI regarding project-specific applicability

Consultant Surveys

To keep in mind for DOT&PF projects:

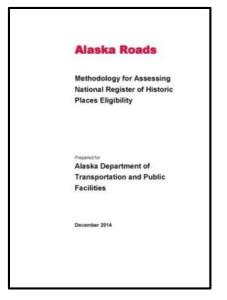
- Do not conduct fieldwork for road evaluation unless:
 - the roads are Category 2 roads <u>AND</u>
 - their significance has been established according to the principles in the Methodology
- Define essential physical features (EPFs) before going into the field

Connect with DOT&PF PQI regarding project-specific applicability

Wrapping Up

Methodology

- Addresses the challenge of the ubiquitous property type
- Applicable to a wide variety of roads
- Guides users to
 - Demonstrate why a road would be significant (gives examples of thresholds under various areas of significance)
 - Identify a road's period of significance
 - Focus on key features would reflect that significance
- Reflects interagency collaboration, leading to more predictability during consultations





Web location

MEN Historic Road Considerations

Protocols in Effect

- Section 106 PA, Appendix B
- Section 106 PA, Appendix J
- Methodology for Assessing NRHP Eligibility

Resources

- Historic Overview: Applied Historic Context of Alaska's Roads
- Elliott Highway Determination of Eligibility
- Interstate Highway System Section 106 Exemption Route List within Alaska
- Interim Guidance (limited applicability)

http://www.dot.state.ak.us/stwddes/desenviron/resources/historicproperties.shtml



Questions?



Thank you

For questions, contact

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http://www.dot.state.ak.us/stwddes/desenviron/resources/historicproperties.shtml